

Historic Preservation Services

Community Development & Neighborhood Services 281 N. College Ave. Fort Collins, CO 80524

970.224.6078 preservation@fcgov.com 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 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:			U	NIT#:
PROPERTY OWNER INFO:	All owner information	on is required – NOT optio	onal)	
Last Name	First	: Name	Middle	
Street Address				
Phone #	Ema	il		
CONTRACTOR INFO:				
Company Name				
License Holder Name			LIC #	CERT #
CONSTRUCTON INFO:				
1. Name of Business (fill in	info below related to	tenant):		_
Existing Tenant□	New Tenant	:□ First tenant/o	ccupant in a new build	ling/space □
Name of prior tenant	/business (or prior u	se):		
Proposed Use:				
2. Are there any exterior b	uilding changes (inclu	uding mechanical) associat	ed with the work?	∕es □ No □
Describe:				
3. Scope of Work Square F	ootage (leave blank v	where work is not occurring	g):	
1st Floor Sq Ft	+ 2nd Floor Sq Ft	+ 3rd Floor Sq Ft	+ 4th Floor So	ր Ft
+ 5th Floor Sq Ft	+ 6th Floor Sq Ft	+ 7th Floor Sq Ft	Other	
+ Unfin. Bsmt Sq Ft (ren	nain unfin.) + Fi	n Bsmt Sq Ft (to be fin.)	= Total Scope of	Work Sq Ft
4. What is being added to	the space (not previo	usly existing/currently pre	sent)?:	
# of Full Baths	_ # ¾ Baths	# ½ Baths # I	ireplaces	_
5. Is the building currently	fire sprinkled? Yes	s 🗆 No 🗆		
indicate their awareness abo ☐ I do not know if an asbe	out their property having bestos inspection has b	13-152, property owners, applying the peen inspected for Asbestos Cont the peen conducted on this pro on this property on or aro	raining Materials (ACM's). sperty	all
☐ An asbestos inspection			and the date on.	
UTILITES INFO:				
Electric Service Upgrade	Yes 🗆 No 🗆	Existing Amps	New Amps	
Electric Meter Relocation	Yes 🗆 No 🗆			

VALUE OF CONSTRUCTION (n	naterials and labor): \$	
DESCRIPTION OF WORK:		
JOBSITE SUPERVISOR CONTA	ACT INFO: Name	Phone _
SUBCONTRACTOR INFO:		
Electrical	Structural Framing (wood only)	Mechanical
Plumbing	Fireplace	Roofing
		e that the above information is correct and agree to ances and state laws regulating building construction.
Applicant Signature	Type or Print Na	ame
Phone #		

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 Journe	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 understar performed contractors licensed by the City of Fort C	nd that such work will only be Collins.
☐ I am giving permission for interior work only . Th	ne scope of the work shall be
limited to:	
☐ I am giving permission for exterior work only . The limited to:	
Imited to:	
(Property owner signature)	(Property owner name; please print)
The foregoing affidavit was acknowledged before me on the	
Witness my hand and official seal. My Commission expires: 9 12 27 Start of the seal	Manie Sami
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).



0	11	- 4	10	0	-	0

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

Tenant Finish Building Permit Application Owner Authorization Form Construction Waste Management Plan (required for a scope of work more than 2,500 sf) This checklist filled out and all documents in this checklist must follow the electronic document submittal guide. Plan check fee Site Plan (only if exterior work is being proposed i.e. attached patio cover, dining patio etc.)		
Construction Waste Management Plan (required for a scope of work more than 2,500 sf) This checklist filled out and all documents in this checklist must follow the electronic document submittal guide. Plan check fee Site Plan (only if exterior work is being proposed i.e. attached patio cover, dining patio etc.)		
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Site Plan (only if exterior work is being proposed i.e. attached patio cover, dining patio etc.)		
Plans Set must include all the following as it pertains to the project scope: Example: If no plumbing work is occurring	g, check	
NA. If plumbing work is occurring, plans should contain plumbing drawings.		
All plans must reflect the current adopted <u>codes</u>		
A fully stamped set of plans 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. Change of Occupancy (architect evaluation letter can be submitted where no/minor work is being do	-	
Floor Plans: Existing AND Proposed (include room labels, square footages, dimensions, drawn to		
Accessibility drawings: if there are accessibility improvements (i.e. wheelchair accessible restrooms, ramps et		
Drawing Details: such as wall sections, fire rated assemblies, stair and guardrail details, door operation and lo	cking,	
interior and exterior elevations (i.e. restroom elevations).		
Energy Code items per the IECC (lighting comcheck, insulation details, mechanical ventilation, etc.)		
Structural drawings: Including structural evaluations for weight added to existing roofs (RTU's, condensing un	ts, etc.)	
***All structural drawings/evaluation letters must be stamped. Mechanical Drawings: showing items such as heating/cooling equipment, ductwork, exhaust, hoods, ventilati		
	-	
special equipment, or systems. ***Stamped mechanical engineered drawings are required for full new mechanical systems (I.E.: new ductwork + new RTU).		
Plumbing Drawings: showing waste and vent diagrams, water supply, plumbing fixtures, water heaters, gas lines,		
grease interceptors, special systems, and equipment.	33 ,	
Electrical Drawings: Includes outlets, lighting, panels, and special equipment.		
New 3 phase service or service change more than 225 amps requires an engineered + stamped electrical One-L	ine	
Check any that apply: New electric service Electric meter relocation		

Applicant's Name:

Job site address:

Date:

E-Mail Address:

FURR

FURRING

GRAB BAR

GEOTECH GEOTECHNICAL

GLU LAM GLUE LAMINATED

GYPSUM

HOSE BIB

GREEN BUILDING CERTIFICATION

GENERAL CONTRACTOR

GARBAGE DISPOSAL

GALVANIZED IRON

GLASS or GLAZING

GYPSUM WALLBOARD

HIGH DENISTY OVERLAY

INSIDE DIAMETER (DIM.)

HOLLOW METAL

HORIZONTAL

HOUR

HOLLOW CORE or HANDICAPPED

INTERNATIONAL BUILDING CODE

PLUS OR MINUS

GREATER THAN

ANGLE OR LESS THAN

ACOUSTICAL CEILING TILE

ADJACENT or ADJUSTABLE

ARCHITECTURAL OR ARCHITECT

CONDITIONING ENGINEERS

AIR AND WEATHER BARRIEF

BRICK INSTITUTE OF AMERICA

CEMENTITIOUS BACKER BOARD

AUTOMATIC

BULKHEAD

BUILDING

BASEMENT

CLEAR

COLUMN

CONCRETE

CONSTRUCTION

CONTINUOUS

CORRIDOR

CENTIMETER

CORNER GUARD

CENTERLINE OR CLOSET

CONCRETE MASONRY UNIT

BITUMINOUS

BEAM OR BENCH MAR

AMERICAN NATIONAL STANDARDS KITCH

AMERICAN SOCIETY OF HEATING LAB

ABBREVIATIONS

INCLUDING

JANITOR

LAMINATE

LAVATORY

LANDSCAPE

MASONRY

MATERIAL

MAXIMUM

MECHANICAL

MANUFACTURER

MILES PER HOUR

MOUNTED

SMACNA SHEETMETAL AND AIR

SS or S/S STAINLESS STEEL

STATION

STANDARD

SLAB ON GRADE

SPECIFICATION(S)

SUBCONTRACTOR

TONGUE AND GROOVE

TILE COUNCIL OF NORTH AMERICA

TO BE DETERMINED

SHEET VINYL

SYMMETRICAL

SYNTHETIC

TOWEL BAR

TELEPHONE

TERRAZZO

THRESHOLD

NOTE: SEE LEGENDS, DOOR SCHEDULE, ROOM FINISH SCHEDULE, AND CONSULTANTS' DRAWINGS FOR ADDITIONAL ABBREVIATIONS.

CONDITIONING CONTRACTORS
ASSOCIATION

MOISTURE RESISTANT

MINIMUM OR MINUTE

LIGHT

LEADERSHIP IN ENERGY

LAMINATED STAND LUMBER

LAMINATED VENEER LUMBER

MEDIUM DENSITY OVERLAY

METAL BUILDING MANUFACTURER WR

JOINT

JANITOR'S CLOSET

CONSERVATION CODE

INSULATION OR INSULATED

TOILET PAPER DISPENSER

TYPICAL

UNDERGROUND

UNFINISHED

VERTICAL

VESTIBULE

VOLUME

WITHOUT

WATER CLOSET

WATER RESISTANT

WELDED WIRE FABRIC

THERMOPLASTIC POLYOLEFIN

UNLESS NOTED OTHERWISH

VINYL COMPOSITION TILE

VINYL WALL COVERING

WATER TO CEMENT RATIO

FLOOR PLAN UNLESS OTHERWISE SPECIFIED UNITED STATES GREEN BUILDIN DRAWING DRAWING NUMBER NUMBER MODIFIER MODIFIER SHEET NUMBER SHEET NUMBER **BUILDING SECTION** (101) NUMBER (A8.1) SHEET NUMBER **ELEVATION TAG COLUMN GRIDS** CEILING → C1 101 TYPE (SEE 9'-0" RCP NOTES) CEILING HEIGHT ABOVE FLOOR CEILING TAG ON RCP ● P-1

BLOWN-IN INSULATION

CONCRETE MASONRY

CONCRETE

EARTH

GYPSUM BOARD

STONE OR SYNTHETIC STONE

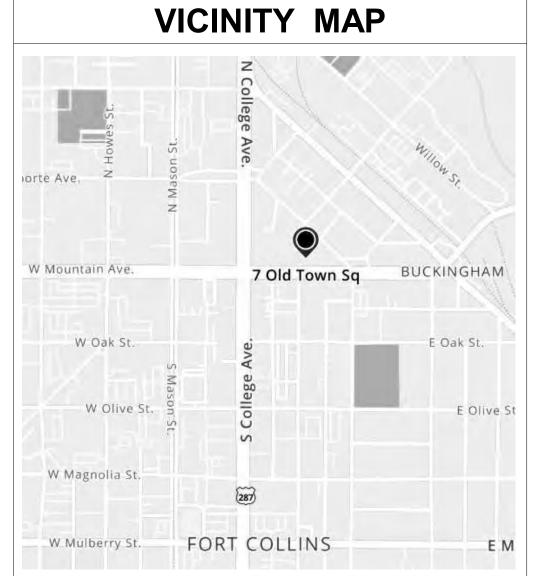
RIGID INSULATION

WALL OR PARTITION

WOOD FINISH LUMBER

WOOD DIMENSION LUMBER

WOOD BLOCKING



PROJECT DIRECTORY 7250 S. SICILY CT. AURORA, CO 80016 EMAIL: HLEE16868@GMAIL.COM **ARCHITECT** VFLA ARCHITECTS, INC. 419 CANYON AVE., SUITE 200 FORT COLLINS, COLORADO 80521 PHONE: 970.224.1191 CONTACT: MARRI WOOD EMAIL: MARRI@VFLA.COM NEWERA CONSTRUCTION, LLC. GENERAL CONTRACTOR 3314 ADOBE CT COLORADO SPRINGS, CO 80907 PHONE: 719.358.3318 CONTACT: ZACH VANDYKE EMAIL: ZACH@NEWERACONSTRUCTIONCO.COM LARSEN STRUCTURAL DESIGN STRUCTURAL ENGINEER 320 MAPLE STREET, SUITE 120 FORT COLLINS, CO 80521 PHONE: (970) 568-3355 CONTACT: BLAKE LARSEN EMAIL: BLAKE@LARSENSD.COM INTEGRATED MEP, LLC MECHANICAL ENGINEER

APS INC. ELECTRICAL ENGINEERS ELECTRICAL ENGINEER

320 MAPLE ST, SUITE 110

FORT COLLINS, CO 80521

7726 PARK RIDGE CIRCLE

FORT COLLINS, CO 80528

EMAIL: RANDYB@APSINC.BIZ

PHONE: (970) 206-0269 **CONTACT: RANDY BREMMER**

CONTACT: THOMAS SEGELHORST

EMAIL: THOMAS-S@INT-MECH.COM

PHONE: (970) 556-0570

PROJECT INFORMATION

THE PROJECT CONSISTS OF AN ALTERATION OF AN EXISTING 4.694 S.F. RESTAURANT TENANT SPACE FOR A NEW RESTAURANT TENANT SPACE. EXISTING KITCHEN AND DINING AREA WILL BE MODIFIED AND NEW EXIT DOOR WILL BE ADDED. EXISTING BAR TO BE MODIFIED TO BECOME

1. THE GC IS RESPONSIBLE FOR OBTAINING ALL PERMITS, PAYMENT OF ALL FEES AND SUBMITTING ALL APPLICATIONS ASSOCIATED WITH THE PROJECT CONSTRUCTION PER THE

2. UPON COMPLETION OF PROJECT, GC SHALL OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH ARCHITECT / OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.

ALL MEANS OF EGRESS AND FIRE PROTECTION SHALL BE MAINTAINED AT ALL TIMES AND ANY SHUT DOWN OF LIFE SAFETY OR BUILDING SYSTEMS SHALL BE APPROVED AND COORDINATED IN ADVANCE WITH THE ARCHITECT, OWNER AND LOCAL BUILDING

4. VENDOR OR OWNER FURNISHED AND INSTALLED ITEMS AND SYSTEMS DESIGN/BUILD VENDORS CONTRACTED DIRECTLY TO THE OWNER SHALL DESIGN AND INSTALI COORDINATE WITH THESE VENDORS TO INCLUDE THEIR INSTALLATIONS WITHIN THE OVERAL CONSTRUCTION SCHEDULE AND PROVIDE THEM ACCESS TO THE SITE AS NEEDED. THE G.C. AND OWNER SHALL REVIEW, COORDINATE, AND CONFIRM THE BELOW LIST FOR ACCURACY. NOTE THAT EMPTY BACK BOXES AND EMPTY CONDUIT AS SHOWN ON THE ELECTRICAL

THE CONTRACT FOR CONSTRUCTION: COMMUNICATIONS. PHONE, DATA AND CABLE OR SATELLITE TV SYSTEMS INCLUDING ALL

AUDIO VISUAL SYSTEMS INCLUDING ALL WIRING AND DEVICES

NON-CODE REQUIRED, WAYFINDING, AND BUILDING MOUNTED SIGNAGE PROCUREMENT

SECURITY SYSTEMS INCLUDING ALL WIRING AND DEVICES OTHER VENDOR OR OWNER FURNISHED AND INSTALLED ITEMS AND SYSTEMS FOR THE

ALL INTERIOR AND EXTERIOR CODE REQUIRED SIGNAGE SHALL BE INSTALLED IN CONTRACT BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL COORDINATE SCHEDULING OF THE SIGNAGE INSTALLATION TO ENSURE THAT CODE REQUIRED SIGNAGE IS IN PLACE BEFORE C.O. INSPECTION. SEE SHEET G0.4 FOR LIST OF

NON-CODE REQUIRED, WAYFINDING, AND BUILDING MOUNTED SIGNAGE SHALL BE DESIGNED BY OTHERS.

6. ALL DIMENSIONS ARE FROM FACE OF STUD, OR FINISHED FACE OF EXISTING PARTITION. UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS. GC IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES, CONFLICTS OR DEVIATIONS REQUIRED IMMEDIATELY

7. TESTING: QUALITY CONTROL TESTING SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY EMPLOYED BY THE OWNER. AT A MINIMUM THE FOLLOWING TESTS SHALL BE CONDUCTED, ALTHOUGH ADDITIONAL TESTS MAY BE CONTRACTED WITH THE TESTING AGENCY BY THE OWNER. THE GENERAL CONTRACTOR SHALL COORDINATE AND SCHEDULE

THE TESTING BY THE TESTING AGENCY: CONCRETE COMPRESSIVE STRENGTH & SLUMP

 CONCRETE SLAB WATER VAPOR EMISSIVITY MVER TEST (LBS OF WATER/24 HRS/1000 S.F.) CONCRETE SLAB WATER VAPOR EMISSIVITY RELATIVE HUMIDITY TEST (% RH)

 SPECIAL INSPECTIONS AS REQUIRED BY THE STRUCTURAL ENGINEER'S NOTES, BY THE BUILDING PERMIT, OR OTHERWISE REQUIRED BY CODE.

8. DRYING OF CONCRETE SLABS: THE GC SHALL PROVIDE AN ENVIRONMENT WITHIN THE BUILDING DURING CONSTRUCTION TO PROMOTE THE DRYING OF CONCRETE SLABS TO ACCEPTABLE LEVELS BEFORE ADHERED FLOORING MATERIALS ARE TO BE INSTALLED. OPTIMUM DRYING CONDTIONS ARE A MINIMUM AIR TEMPERATURE OF 70 DEGREES F. AND A MAXIMUM RH OF 30% MAINTAINED 24/7. PROPANE FIRED HEATERS AND PERMANENT HVAC EQUIPMENT SHALL NOT BE USED TO PROVIDE TEMPORARY HEAT DURING CONSTRUCTION.

9. OWNER STOCK OF MATERIALS:

THE G.C. SHALL PROVIDE THE OWNER WITH EXTRA FINISH MATERIALS FOR MAINTENANCE/REPLACEMENT PURPOSES. FOR EACH, PROVIDE A MINIMUM OF 1% OF THE AMOUNT OF INSTALLED MATERIAL OR ONE FULL PACKAGE OF THE MATERIAL AS DELIVERED (WHICHEVER IS GREATER) FOR EACH COLOR/STYLE OF MATERIAL USED. MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO:

 ACOUSTIC CEILING TILE PORCELAIN FLOOR TILE

QUARRY FLOOR TILE AND WALL BASE

RUBBER WALL BASE AND ADHESIVE USED

• PAINT (1 UNOPENED GALLON OF EACH COLOR FOR EACH TYPE OF PAINT USED) WALL COVERING AND THE ADHESIVE USED

DESIGN/BUILD SYSTEMS:

THE FOLLOWING SYSTEMS SHALL BE FURNISHED AND INSTALLED IN CONTRACT BY DESIGN/BUILD SUBCONTRACTORS UNDER THE G.C.

ANY MODIFICATIONS TO THE EXISTING FIRE SPRINKLERS (TYPE 13)

 ANY MODIFICATIONS TO THE EXISTING FIRE ALARM EMERGENCY RESPONDER RADIO AMPLIFICATION SYSTEM.

DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY THOSE DESIGN-BUILD SUBCONTRACTORS AND SUBMITTED DIRECTLY TO THE LOCAL FIRE DEPARTMENT AS DEFERRED SUBMITTALS:

1. VAPOR EMISSIVITY AND PH MITIGATION FOR CONCRETE SLABS ON GRADE AND ON DECK (TO BE USED AT OWNER'S OPTION FOR SLABS WHICH FAIL VAPOR AND PH TESTING). PROVIDE BOTH A TOTAL COST FOR ALL CONCRETE SLABS AND A COST PER S.F. FOR THIS

 APPLICATION OF EPOXY-BASED SEALER (KOESTER VAP I 2000 SYSTEM WITH CAP 1 PRIMER LEVEL PRO-E & VAP 1 PRO-FINISH TROWELABLE UNDERLAYMENT OR APPROVED SUBSTITUION)

2. PH ONLY MITIGATION FOR CONCRETE SLABS ON GRADE AND ON DECK (TO BE USED AT OWNER'S OPTION FOR SLABS WHICH PASS VAPOR TESTING BUT FAIL PH TESTING). PROVIDE BOTH A TOTAL COST FOR ALL CONCRETE SLABS AND A UNIT COST PER S.F. FOR THIS TREATMENT: MILD CARBONIC ACID SUCH AS CLUB SODA IS AN ACCEPTABLE PH NEUTRALIZER.

EMERGENCY RADIO AMPLIFICATION SYSTEM: THE BASE BID SHALL INCLUDE ONLY THE INITIAL TESTING TO DETERMINE IF THE SYSTEM IS NECESSARY. THE ALTERNATE, WHICH MAY BE ACCEPTED IF THE BUILDING FAILS THE INITIAL TESTING, WOULD INSTALL THE COMPLETE SYSTEM AND CONDUCT THE FINAL TESTING TO DEMONSTRATE OPERATION OF THE SYSTEM TO THE LOCAL FIRE DEPARTMENT'S SATISFACTION.

SHEET INDEX

SHEET NAME

SHEET#

G0.1 SHEET INDEX OUTLINE SPECIFICATIONS & PROJECT INFORMATION

SYSTEM NOTES & INTERIOR PARTITION TYPES G0.4 CODE REVIEW PLANS

A0.1 DEMOLITION FLOOR PLAN A0.2 DEMOLITION REFLECTED CEILING PLAN A1.0 FLOOR PLAN A2.0 REFLECTED CEILING PLAN A7.1 DOOR AND WINDOW SCHEDULES A8.0 MATERIAL FINISH LEGEND & NOTES

A9.1 INTERIOR ELEVATIONS & DETAILS A9.2 INTERIOR ELEVATIONS

FINISH PLAN

S0.1 GENERAL NOTES AND SPECIAL INSPECTIONS

FOUNDATION, MAIN LEVEL, AND ROOF FRAMING PLANS AND

H0.1 HVAC NOTES, LEGEND, INDEX H1.1 HVAC DEMO FLOOR PLAN H2.1 HVAC FLOOR PLAN H2.2 HVAC ROOF PLAN H7.1 HVAC DETAILS H8.1 HVAC SCHEDULES H8.2 HVAC SCHEDULES

H8.3 HVAC SCHEDULES

H8.4 HVAC SCHEDULES H8.5 HVAC SCHEDULES H8.6 HVAC SCHEDULES

H8.7 HVAC SCHEDULES

H8.8 HVAC SCHEDULES H8.9 HVAC SCHEDULES

H8.10 HVAC SCHEDULES H8.11 HVAC SCHEDULES

PLUMBING P0.1 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

E0 ELECTRICAL - LEGEND, SPECIFICATIONS, DRAWING INDEX E0.1 ELECTRICAL - DEMOLITION PLAN

E1.1 ELECTRICAL - LIGHTING PLAN E2.1 ELECTRICAL - POWER PLAN

E2.2 ELECTRICAL - BONCHON KITCHEN POWER PLAN

E2.3 ELECTRICAL- BROWN DONKATSU KITCHEN POWER PLAN E3.1 ELECTRICAL - ONE-LINE DIAGRAMS & SCHEDULES

E3.2 ELECTRICAL - SCHEDULES & DETAILS



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 PARTNERSHIF

STRENGTH IN COMMUNITY

PROJECT TEAM

DESIGN DEVELOPMENT

09-20-2024

10-11-2024

DESIGN DEVELOPMENT

CONSTRUCTION DOCUMENTS

STRUCTURAL ENGINEER

INTEGRATED MEP, LLC.

PLUMBING ENGINEER:

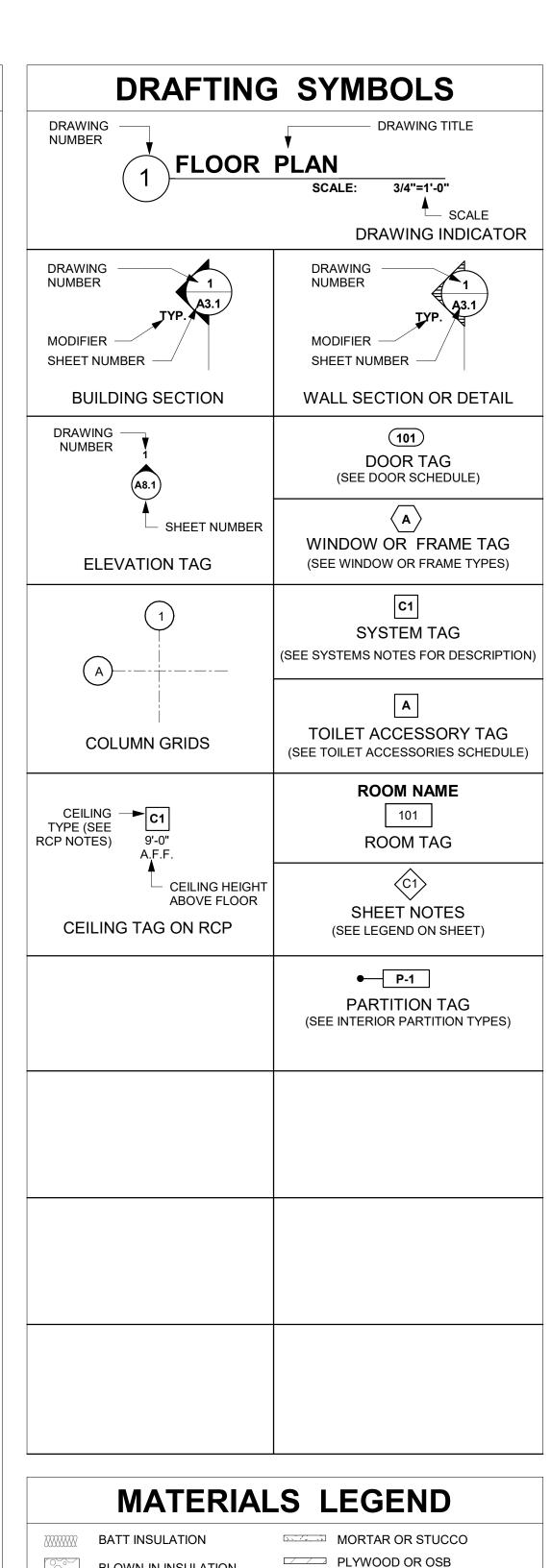
INTEGRATED MEP, LLC

LARSEN STRUCTURAL DESIGN

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SHEET INDEX



OUTLINE SPECIFICATIONS

DIVISION 01 GENERAL REQUIREMENTS: PROJECT SUMMARY

THIS IS NOT A LEED PROJECT

THE PROJECT CONSISTS OF AN ALTERATION OF AN EXISTING 4,694 S.F. RESTAURANT TENANT SPACE FOR A NEW RESTAURANT TENANT SPACE. EXISTING KITCHEN AND DINING AREA WILL BE MODIFIED AND NEW EXIT DOOR WILL BE ADDED. EXISTING BAR TO BE MODIFED TO BECOME A NEW KITCHEN.

GENERAL CONTRACTOR THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION OF ALL WORK DEFINED BY THE CONTRACT. BOTH THE DRAWINGS AND SPECIFICATIONS ISSUED BY THE ARCHITECT ARE CONTRACT DOCUMENTS AND PART OF THE CONTRACT. A COPY OF THE CONTRACT DOCUMENTS ARE TO BE KEPT AT THE JOB SITE AT ALL TIMES, AND ANY CHANGES MUST BE NOTED THEREON BY THE GENERAL CONTRACTOR AT THE TIME ANY CHANGE OR DEVIATION IS PERFORMED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING AN "AS BUILT" SET OF RECORD DRAWINGS TO THE OWNER AT THE END OF THE PROJECT DOCUMENTING ALL CHANGES DURING THE COURSE OF CONSTRUCTION.

THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AS THEY RELATE TO THE WORK AND SHALL ADVISE THE OWNER AND ARCHITECT OF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE ACCURACY OF FIELD MEASUREMENTS AND EXISTING CONDITIONS.

NO BID BONDS OR MATERIALS & PERFORMANCE BONDS WILL BE REQUIRED. THE OWNER IS NOT A TAX EXEMPT ORGANIZATION. GENERAL CONDTIONS SHALL INCLUDE CITY SALES AND USE TAX, AS WELL AS ALL OTHER STATE TAXES.

INTERIOR FINISHES ARE TO BE SELECTED BY OWNER. COORDINATE ALLOWANCES FOR INTERIOR FINISHES WITH OWNER.

CITY OF FT. COLLINS LOCAL AMENDMENTS:

THE FOLLOWING ARE EXCERPTS FROM THE CITY OF FORT COLLINS LOCAL AMENDMENTS TO THE 2021 IBC AND IECC. THESE ARE NOT, HOWEVER, ALL-INCLUSIVE. IT SHALL BE THE RESPONSIBILITY OF THE GC AND HIS SUBCONTRACTORS TO BE FAMILIAR WITH AND COMPLY WITH ALL

- APPLICABLE LOCAL CODES AND AMENDMENTS. BUILDING CONSTRUCTION: THE PUBLIC RIGHT-OF-WAY SHALL NOT BE USED FOR STAGING OR STORAGE OF MATERIALS OR EQUIPMENT ASSOCIATED WITH THE DEVELOPMENT, NOR SHALL IT BE USED FOR PARKING BY ANY CONTRACTORS, SUBCONTRACTORS, OR OTHER PERSONNEL WORKING FOR OR HIRED BY THE DEVELOPER TO CONSTRUCT THE DEVELOPMENT. THE DEVELOPER WILL NEED TO FIND A LOCATION ON PRIVATE PROPERTY TO ACCOMMODATE ANY NECESSARY STAGING AND/OR PARKING NEEDS ASSOCIATED WITH THE COMPLETION OF THE DEVELOPMENT. INFORMATION ON THE LOCATION OF THESE AREAS WILL BE REQUIRED TO BE PROVIDED TO THE CITY AS A PART OF THE DEVELOPMENT CONSTRUCTION PERMIT APPLICATION.
- CONSTRUCTION WASTE MANAGEMENT PLAN ACCEPTABLE TO THE BUILDING OFFICIAL SHALL BE PREPARED BY THE G.C. AND SUBMITTED TO THE FORT COLLINS BUILDING DEPARTMENT AT THE TIME OF APPLICATION FOR PERMIT. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE IMPLEMENTED AND CONSPICUOUSLY POSTED ON THE CONSTRUCTION SITE. ALL CONCRETE, ASPHALT, MASONRY, WOOD, METALS, AND CARDBOARD SHALL BE RECYCLED. COMPLIANCE SHALL BE CERTIFIED BY INSPECTION, DOCUMENTATION, AND SIGNED FINAL CONSTRUCTION WASTE MANAGEMENT PLANS. SUBSTANTIVE CHANGES TO THE PLAN SHALL BE SUBJECT TO PRIOR APPROVAL BY THE BUILDING OFFICIAL. ALL ROOFING PERMITS ARE REQUIRED TO SUBMIT A FINAL WASTE MANAGEMENT PLAN AND DOCUMENTATION. BUILDING DEMOLITIONS (IBC 3602.1.1): BUILDINGS OR PORTIONS OF BUILDING WHICH ARE REMOVED SHALL BE PROCESSED IN SUCH A WAY

CONSTRUCTION WASTE MANAGEMENT PLAN (IBC 3602.1): FOR REMODELS AND ADDITIONS OVER 2,500 S.F. AND FOR ALL NEW BUILDINGS. A

- 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.
- ENERGY ASSESSMENT (IECC 101.4.2): PRIOR TO ANY ALTERATIONS, PROJECTS SHALL UNDERGO A CITY OF FORT COLLINS UTILITIES FACILITY ENERGY ASSESSMENT.

- VFLA SHALL REVIEW AND APPROVE, OR TAKE OTHER APPROPRIATE ACTION UPON, THE CONTRACTOR'S SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND OTHER ITEMS, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION DOCUMENTS. THIS REVIEW SHALL NOT INCLUDE REVIEW OF THE ACCURACY OR COMPLETENESS OF DETAILS, OF THE SUBMITTAL, SUCH AS QUANTITIES, DIMENSIONS, WEIGHTS OR GAUGES, FABRICATION PROCESSES, CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT VFLA HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. VFLA SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF VFLA IN WRITING BY THE CONTRACTOR. VFLA SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
- THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL SUBMIT IN WRITING ANY REQUESTS TO MODIFY THE PLANS OR
- ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPROVE, AND SUBMIT TO THE ARCHITECT, SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS REQUIRED BY THE CONTRACT DOCUMENTS AND ANY NECESSARY CORRECTIONS NOTED PRIOR TO SUBMISSION FOR ARCHITECT'S REVIEW. IN ADDITION. THE SUBMITTAL SHALL BE STAMPED WITH THE GENERAL CONTRACTOR'S REVIEW STAMP.
- BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS TO THE OWNER AND ARCHITECT THAT THE CONTRACTOR HAS (1) REVIEWED AND APPROVED THEM, (2) DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS, AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO, AND (3) CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.
- SUBMITTALS NOT REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW BY THE ARCHITECT, AND MUST BE RESUBMITTED AFTER REVIEW BY THE GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION, IN WRITING OR ON RESUBMITTED SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTALS, TO REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT ON PREVIOUS SUBMITTALS. IN THE ABSENCE OF
- SUCH NOTICE, THE ARCHITECT'S APPROVAL OF A RESUBMISSION SHALL NOT APPLY TO SUCH REVISIONS.
- SUBMIT SUBMITTALS TO THE DESIGN TEAM IN A TIMELY MANNER TO PERMIT TEN (10) WORKING DAYS FOR REVIEW

MATERIALS SHALL BE PROVIDED AS SPECIFIED IN THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS WILL BE ALLOWABLE UNLESS FORMALLY ACCEPTED BY THE ARCHITECT AND OWNER. FORMAL REQUESTS FOR SUBSTITUTIONS MAY BE SUBMITTED WITH CSI FORM 1.5C DURING THE BIDDING PROCESS AND CSI FORM 13.1A AFTER THE BIDDING PROCESS IS COMPLETE. NOTE THAT THE ARCHITECT AND OWNER WILL REVIEW REQUESTS. BUT ARE NOT OBLIGATED TO ACCEPT THEM. IF REQUESTS ARE ACCEPTED. THEY WILL BE WITH THE PROVISIONS OF THE CONTRACTOR'S REPRESENTATION AS DESCRIBED HERE. BRIEFLY, THE CONTRACTOR'S REPRESENTATION REQUIRES THE GC (NOT THE ARCHITECT OR THE OWNER) TO ACCEPT FULL RESPONSIBILITY AND LIABILITY FOR ANY SUBSTITUTED MATERIALS. SUBSTITUTED MATERIALS MUST PROVIDE THE SAME WARRANTY AS THE ORIGINALLY SPECIFIED MATERIALS. NO ADDITIONAL COST TO THE OWNER WILL BE ALLOWABLE FOR SUBSTITUTED MATERIALS OR FOR ANY MODIFICATIONS REQUIRED BY THE USE OF THOSE MATERIALS. IF THE SUBSTITUTED MATERIALS DO NO PERFORM AS REQUIRED FOR THE SPECIFIED MATERIALS, THEY WILL BE REPLACED BY THE GC AT NO ADDITIONAL COST TO THE OWNER.

DESIGN/BUILD SUBCONTRACTORS

- NFPA TYPE 13 SPRINKLERS WILL BE REQUIRED THROUGHOUT THE BUILDING. ANY MODIFICATIONS TO THE EXISTING FIRE SPRINKLER SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. THAT SUB WILL BE REQUIRED TO MAKE
- DEFERRED SUBMITTALS OF THE SPRINKLER DRAWINGS & CALCULATIONS TO THE LOCAL FIRE DEPARTMENT A FIRE ALARM SYSTEM WILL BE REQUIRED THROUGHOUT THE BUILDING. ANY MODIFICATIONS TO THE EXISTING SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. THAT SUB WILL BE REQUIRED TO MAKE DEFERRED SUBMITTALS
- OF THE FIRE ALARM DRAWINGS TO THE LOCAL FIRE DEPARTMENT. AN EMERGENCY RESPONDER RADIO AMPLIFICATION SYSTEM MAY BE REQUIRED IN THIS BUILDING. THE NEED FOR THE SYSTEM WILL BE DETERMINED BY TESTING ONCE THE BUILDING SHELL IS COMPLETE. THE INITIAL TESTING IS TO BE PROVIDED AS PART OF THE BASE BID. SEE ALTERNATES. IF THE BUILDING FAILS THE TESTING, THE OWNER MAY ACCEPT THE ALTERNATE, WHICH IS TO INSTALL THE COMPLETE SYSTEM AND PERFORM FINAL TESTING TO DEMONSTRATE TO FIRE DEPARTMENT'S SATISFACTION THAT THE SYSTEM IS FUNCTIONAL. THE EMERGENCY RADIO AMPLIFICATION SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR UNDER BY THE GC. THAT SUB WILL BE REQUIRED TO MAKE DEFERRED SUBMITTALS OF THE TEST CERTIFICATES TO THE LOCAL FIRE DEPARTMENT IN ADDITION
- TO SUBMITTALS TO THE ARCHITECT AND OWNER. LOW VOLTAGE SYSTEMS, INCLUDING SECURITY, AUDIO VISUAL, INTERCOM, PHONE/COM/DATA, CATV WILL BE DESIGN/BUILD BY VENDORS CONTRACTED DIRECTLY TO THE OWNER. HOWEVER, EMPTY BACK BOXES AND CONDUITS AS SHOWN ON THE ELECTRICAL POWER DRAWINGS AS NEEDED TO ACCOMMODATE THOSE SYSTEMS WILL BE REQUIRED TO BE INSTALLED AS PART OF THE BASE BID BY THE GC/ELECTRICAL SUB. THE DESIGN OF THOSE LOW VOLTAGE SYSTEMS, THE FURNISHING AND INSTALLING OF THE LOW VOLTAGE WIRING AND THE INSTALLATION OF THE DEVICES FOR THOSE SYSTEMS SHALL BE BY THE VENDORS, NIC UNLESS NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS. THE GC WILL BE EXPECTED TO COORDINATE THE SCHEDULING FOR NIC VENDORS AND FACILITATE THEIR ACCESS TO THE PROJECT.

BID ALTERNATES:

- VAPOR EMISSIVITY AND PH MITIGATION FOR CONCRETE SLABS ON GRADE AND ON DECK (TO BE USED AT OWNER'S OPTION FOR SLABS WHICH FAIL VAPOR AND PH TESTING). PROVIDE BOTH A TOTAL COST FOR ALL CONCRETE SLABS AND A COST PER S.F. FOR THIS TREATMENT:
- APPLICATION OF EPOXY-BASED SEALER (KOESTER VAP I 2000 SYSTEM WITH CAP 1 PRIMER LEVEL PRO-E & VAP 1 PRO-FINISH TROWELABLE UNDERLAYMENT OR APPROVED SUBSTITUION)
- PH ONLY MITIGATION FOR CONCRETE SLABS ON GRADE AND ON DECK (TO BE USED AT OWNER'S OPTION FOR SLABS WHICH PASS VAPOR TESTING BUT FAIL PH TESTING). PROVIDE BOTH A TOTAL COST FOR ALL CONCRETE SLABS AND A UNIT COST PER S.F. FOR THIS TREATMENT: MILD CARBONIC ACID SUCH AS CLUB SODA IS AN ACCEPTABLE PH NEUTRALIZER.
- **EMERGENCY RADIO AMPLIFICATION SYSTEM:** THE BASE BID SHALL INCLUDE ONLY THE INITIAL TESTING TO DETERMINE IF THE SYSTEM IS NECESSARY. THE ALTERNATE, WHICH MAY BE ACCEPTED IF THE BUILDING FAILS THE INITIAL TESTING, WOULD INSTALL THE COMPLETE SYSTEM AND CONDUCT THE FINAL TESTING TO DEMONSTRATE OPERATION OF THE SYSTEM TO THE LOCAL FIRE DEPARTMENT'S SATISFACTION.

- AT THE COMPLETION OF THE PROJECT, THE GC SHALL PRESENT TO THE OWNER A FINAL PAY APPLICATION SHOWING A \$0 REMAINING BALANCE AND INCLUDE LIEN WAIVERS FROM THE GC AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS.
- GC SHALL PROVIDE THE OWNER WITH COMPLETE OPERATIONS & MAINTENANCE (O&M) MANUALS IN BOTH HARD COPY AND .PDF FORMAT. INCLUDE MATERIALS PRODUCT DATA, COLOR SELECTIONS AND OPERATION & MAINTENANCE DATA FOR ALL SYSTEMS INCUDED IN THE PROJECT. INCLUDE WARRANTIES FROM MANUFACTURERS, SUBCONTRACTORS AND THE GENERAL CONTRACTOR WITH WARRANTY FORMS COMPLETELY FILLED OUT AND SIGNED, STATING THE START AND EXPIRATION DATES. MANUFACTURER'S WARANTIES SHALL BE FOR THE MANUFACTURER'S STANDADARD DURATION FOR THE MATERIAL OR SYSTEM UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. SUBCONTRACTOR'S AND GC'S WORKMANSHIP WARRANTIES SHALL BE FOR ONE YEAR UNLESS NOTED OTHERWISE IN THE CONTRACT
- OWNER'S STOCK OF MATERIALS: GC SHALL PROVIDE THE OWNER WITH A SUPPLY OF REPLACEMENT FINISH MATERIALS MATCHING THE PRODUCTS INSTALLED. PROVIDE 1% OF THE QUANTITY OF MATERIALS INSTALLED UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. OWNER'S STOCK MATERIALS SHALL INCLUDE BUT ARE NOT LIMITED TO:
- EACH COLOR AND TYPE OF PAINT IN LABELED, UNOPENED CANS EACH TYPE AND COLOR OF FINISH FLOORING AND BASE MATERIAL
- EACH TYPE AND SIZE OF ACOUSTIC CEILING TILE
- EACH TYPE AND SIZE OF WALL COVERING
- GC SHALL PROVIDE THE OWNER WITH A COPY OF DOCUMENTATION SHOWING COMPLIANCE WITH IECC AND OTHER LOCALLY REQUIRED
- ENERGY CODE REQUIREMENTS INCLDING BUT NOT LIMITED TO: COMCHECKS FOR MECHANICAL SYSTEMS AND LIGHTING
- COMMISSIONING REPORTS
- FENESTRATION INSTALLATION CERTIFICATES WASTE MANAGEMENT PLAN & REPORTS

ALL GC'S WHO SUBMIT A BID WILL BE REQUIRED TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR PROPOSALS.

- MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON A WALKING PATH THAT IS NOT A RAMP IS 5% AND THE MAXIMUM CROSS SLOPE IS 2%. 1ST FLOOR WILL BE A 5" THICK CONCRETE SLAB ON EXISTING CONCRETE SLAB REINFORCED WITH REBAR PER STRUCTURAL ENGINEERING DRAWINGS. INSTALL OVER GRAVEL INFILL IN LOCATIONS WHERE DIFFERENCE FROM EXISTING SLAB HEIGHT TO NEW SLAB HEIGHT IS GREATER
- THAN 6". REFER TO STRUCTURAL DRAWINGS. SLABS ON GRADE WILL BE 4,000 PSI CONCRETE WITH A LOW WATER CEMENT RATIO OF 0.45 MAXIMUM.

DOCUMENTS. ALL WARRANTIES SHALL BE NOTED AS STARTING ON THE DATE OF SUBSTANTIAL COMPLETION.

SLABS ON GRADE MUST BE WATER CURED OR COVER CURED FOR 7 DAYS. LIQUID OR SPRAY-APPLIED CURING COMPOUND WILL BE ALLOWABLE, IF ALL CURING COMPOUND IS REMOVED PRIOR TO INSTALLATION OF ADHERED FLOOR PRODUCTS. THE GC WILL BE RESPONSIBLE FOR PROTECTING SLABS AND PROVIDING TEMPERATURE AND HUMIDITY LEVELS WITHIN THE BUILDING AS REQUIRED FOR PROPER DRYING OF THE CONCRETE SLABS BEFORE THE INSTALLATION OF ADHERED FLOORING MATERIALS. PROPER DRYING

CONDITIONS AFTER THE BUILDING IS ENCLOSED ARE 70 DEGREE FAHRENHEIT. AIR TEMPERATURE MINIMUM AND 30% RELATIVE HUMIDITY

- MAXIMUM MAINTAINED 24/7. THE USE OF PROPANE FIRED HEATERS AND PERMANENT HVAC UNITS TO PROVIDE TEMPORARY HEATING WILL NOT BE ACCEPTABLE. SLABS ON GRADE SHALL BE TESTED AT REGULAR INTERVALS AFTER PLACEMENT AND SHORTLY BEFORE INSTALLATION OF ANY ADHERED FLOORING MATERIALS FOR WATER VAPOR EMISSIVITY USING BOTH THE CALCIUM CHLORIDE METHOD (MVER) AND THE RH METHOD AND TESTED FOR PH. MAX. ALLOWABLE VALUES SHALL BE 5 LBS/24 HRS/1000 S.F (MVER). OR 85% (RH) FOR WATER VAPOR AND PH 11 OR THE
- MAXIMUM VALUES ALLOWED BY THE MANUFACTURERS OF THE FLOORING MATERIALS AND THE ADHESIVES TO BE USED. TESTING SHALL BE DONE BY AN INDEPENDENT TESTING AGENCY EMPLOYED DIRECTLY BY THE OWNER. IF THE SLABS FAIL THE TESTING, THE OWNER MAY DECIDE TO HAVE VAPOR AND/OR PH MITIGATION PROCEDURES APPLIED. SEE ALTERNATES.
- THE CONTRACTOR SHALL PROVIDE ALL FORM WORK AND ACCESSORIES FOR ALL CAST-IN-PLACE CONCRETE. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK."
- CONCRETE REINFORCING SHALL CONSIST OF DEFORMED NEW FILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- CONCRETE MATERIAL SHALL BE 3000 PSI IN FOUNDATIONS, 4000 PSI IN SLABS ON GRADE AND EXTERIOR PAVING AND 3000 P.S.I. IN ALL OTHER CONCRETE APPLICATIONS UNLESS NOTED 09THERWISE BY STRUCTURAL ENGINEER'S DRAWINGS AND SPECIFICATIONS. THE STRUCTURAL
- ENGINEER SHALL APPROVE FINAL CONCRETE DESIGN MIXES. SEE STRUCTURAL ENGINEER'S DRAWINGS AND SPECS FOR CONCRETE REINFORCING AND ADDITIONAL CONCRETE REQUIREMENTS.
- POURED IN PLACE CONCRETE TESTING: • INDEPENDENT COMPRESSIVE STRENGTH TESTING TO BE DONE FOR EACH CONCRETE BATCH DELIVERY AT 7, 14 AND 28 DAYS AFTER PLACEMENT (TESTS PAID FOR BY OWNER).
- INDEPENDENT VAPOR EMISSIVITY (MVER AND RH) AND PH TESTING OF CONC. SLABS SHALL BE CONDUCTED (TESTS PAID FOR BY OWNER). POURED IN PLACE CONCRETE SUBMITTALS:
- SUBMIT MIX DESIGN FOR EACH TYPE/APPLICATION OF CONCRETE ON THE PROJECT. • SUBMIT PRODUCT DATA FOR ALL ADMIXTURES

DIVISION 4 & 5: NOT USED

DIVISION 6: WOOD, PLASTICS & COMPOSITES

- INTERIOR ROUGH CARPENTRY: 1. PROVIDE SOLID WOOD OR PLYWOOD BACKING IN WALLS BEHIND TELEVISIONS AND ALL OTHER WALL MOUNTED ITEMS. COORDINATE LOCATIONS WITH OWNER.
- INTERIOR WOODWORK/MILLWORK/FINISH CARPENTRY: PROVIDE MATERIALS THAT COMPLY WITH THE REQUIREMENTS OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) FOR EACH TYPE OF WOODWORK AND QUALITY GRADE INDICATED:
- 1. LAMINATE CLAD CABINETS (PLASTIC LAMINATE-COVERED CASEWORK) CUSTOM GRADE, FLUSH OVERLAY CABINET CONSTRUCTION
 - PLASTIC LAMINATE OVER PARTICLE BOARD CORE
- HARDWARE:COMPLY WITH ANSI/BHMA A156.9 "AMERICAN NATIONAL STANDARD FOR CABINET HARDWARE": PULLS: STAINLESS STEEL U-SHAPED WIRE PULLS
- DRAWER GLIDES: ACCURIDE 3832-EC EASY CLOSE FULL EXTENTION OR APPROVED SUBSTITUTION FINISH: BRUSHED STAINLESS
- 2. COUNTERTOPS
- SOLID SURFACE MATERIAL: QUARTZ SURFACE (NOTE THICKNESS, MFR, COLOR, ETC) OVER 3/4" PARTICLE BOARD SUBSTRATE
 - SQUARE EASED EDGE TREATMENT
- MITER CORNERS AND EDGES 3. PLASTIC LAMINATE FACE SHEET AND BACKER SHEET OVER 3/4" PARTICLE BOARD SUBSTRATE. SOLID VINYL EDGING

DIVISION 7: NOT USED

DIVISION 8: OPENINGS HOLLOW METAL DOOR FRAMES & INTERIOR WINDOW FRAMES

- FRAMES IN INTERIOR WALLS: 16 GA. STEEL **HOLLOW METAL DOORS:**
- 16 GA. STEEL
- FULLY WELDED, GROUND SMOOTH, POLYSTYRENE CORE
- MIN. STC ACOUSTIC RATING: 31
- VISION LITES AT SOME DOORS AS SHOWN, STEEL GLAZING STOPS, BOTTOM RAIL IN FULL GLASS DOORS 10"H. MIN. LIFETIME WARRANTY
- VISION LITES AT SOME DOORS AS SHOWN. WOOD GLAZING STOPS (FIRE RATED IN FIRE RATED DOORS). BOTTOM RAIL IN FULL GLASS DOORS 10"H. MIN. LIFETIME WARRANTY

DOOR HARDWARE:

- ALL LOCKSETS GRADE 1. US 26D FINISH. HANDICAP ACCESSIBLE LEVER HANDLES PER ADA & ANSI A117.1
- GC SHALL INCLUDE AN APPROPRIATE ALLOWANCE FOR DOOR HARDWARE.DOOR HARDWARE SUB SHALL PROVIDE A DOOR HARDWARE SCHEDULE AND PRODUCT DATA FOR ALL HARDWARE AS PART OF SUBMITTALS.
- HARDWARE SUBCONTRACTOR AND GC SHALL MEET WITH THE OWNER TO DEVELOP A KEYING SCHEDULE FOR THE BUILDING. HARDWARE SUBCONTRACTOR AND GC SHALL MEET WITH THE OWNER AND HIS SECURITY SYSTEM VENDOR TO COORDINATE
- HARDWARE AND DOOR MODIFICATIONS REQUIRED TO ACCOMMODATE THE SECURITY SYSTEM. PROVIDE A KEY CABINET OF SUFFICIENT SIZE TO CONTAIN KEYS FOR THE PROJECT.
- METAL ACCESS DOORS & PANELS PROVIDE STEEL ACCESS PANELS AS REQUIRED TO ACCESS MECHANICAL/PLUMBING ELEMENTS AND ELSEWHERE AS REQUIRED. FIRE RATED PANELS WHERE PENETRATING A RATED ASSEMBLY.

ALUMINUM FRAMES & ENTRY DOORS EXTERIOR STOREFRONT FRAMES:

- 2" X 4 ½" THERMALLY BROKEN ALUMINUM FRAMES: KAWNEER 451T, OR OLDCASTLE 3000 THERMAL MULTIPANE, AND TUBELIGHT
- TU24000 OR APPROVED SUBSTITUTIONS • FINISH: DARK BRONZE ANODIZED - CONFIRM FINISH WITH OWNER

1" THICK INSULATED GLASS **ALUMINUM FULL GLASS EXTERIOR DOORS:**

- WIDE STILE TYPE. SURFACE MOUNTED PANIC HARDWARE: KAWNEER WIDE STILE OR APPROVED SUBSTITUTION. 1" THICK INSULATED GLAZING
- FINISH: DARK BRONZE ANODIZED (CONFIRM MATCH TO EXISTING)
- BOTTOM RAIL 10"H. MIN.
- "POP" STYLE VERTICAL PULL BAR ON EXTERIOR
- HARDWARE SUBCONTRACTOR AND GC SHALL MEET WITH THE OWNER AND HIS SECURITY SYSTEM VENDOR TO COORDINATE ALUMINUM FRAME AND DOOR AND HARDWARE MODIFICATIONS

- GYPSUM BOARD: • 5/8" GYPSUM BOARD ON WALLS, INTERIOR PARTITIONS & CEILINGS AS NOTED ON DRAWINGS & PARTITION TYPES
- LEVEL 4 FINISH ON WALLS AND CEILINGS.
- SMOOTH TEXTURE ON WALLS AND CEILINGS
- COLD FORMED METAL FRAMING: • INTERIOR PARTIONS, FURRINGS, SOFFIT AND CEILING FRAMING: 25 GAUGE METAL STUDS @ 16" ON CENTER (20 GAUGE DOUBLE
- STUDS @ OPENING JAMBS). SIZES AS NOTED ON DRAWINGS. METAL SUSPENSION SYSTEM FOR GYPSUM BOARD CEILINGS
- 4" HIGH COVED RUBBER BASE • ADHESIVES FOR ALL ADHERED FLOORING MATERIALS SHALL BE LISTED BY THEIR MFR. TO TOLERATE A MINIMUM OF 5 LBS OF WATER
- VAPOR PER THE MVER TEST AND/OR 80% RELATIVE HUMIDITY AND A MINIMUM OF 11 PH.
- PORCELAIN AND QUARRY TILE AS SPECIFIED ON DRAWINGS
- ALL TILE WILL BE SET WITH MODIFIED PORTLAND CEMENT THIN-SET MORTAR PER TILE COUNCIL OF NORTH AMERICA (TCNA) INSTALLATION METHODS. MASTICS OR ADHESIVES WILL NOT BE ACCEPTABLE AS SETTING MATERIALS. GROUT TO BE SELECTED FROM STANDARD COLORS. MANUFACTURER: MAPEI.
- METAL TRIM PROFILES AT TILE EDGES & THRESHOLDS AND MATERIAL TRANSITIONS AS NOTED ON DRAWINGS. MANUFACTURER:
- SUSPENDED ACOUSTIC CEILINGS (ACT). REFER TO CEILING TYPES LEGEND FOR MORE INFORMATION. 24" X 24", TEGULAR, BASIS OF DESIGN: ARMSTRONG, DUNE
- INTERIOR PAINT: ALL INTERIOR ELEMENTS EXPOSED TO VIEW THAT ARE NOT FACTORY FINISHED SHALL BE FIELD PAINTED U.N.O.
- TYPICAL WALLS & INTERIOR PARTITIONS & CEILINGS 1 COAT PRIMER PLUS 2 COATS LATEX ENAMEL. GYPSUM BOARD WALLS AND CEILINGS IN KITCHEN - SHERWIN WILLIAMS WATER-BASED LIGHT INDUSTRIAL COATING SYSTEM 1. PRIME COAT: PRIMER SEALER, LATEX, INTERIOR:
- a. S-W PROMAR 200 ZERO VOC LATEX PRIMER, B28W2600, AT 4.0 WET, 1.0 MILS DRY. INTERMEDIATE COAT: LIGHT INDUSTRIAL COATING, INTERIOR, WATER BASED, MATCHING TOPCOAT
- 3. TOPCOAT: LIGHT INDUSTRIAL COATING, INTERIOR, WATER-BASED, EGGSHELL: A. S-W PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY, K45-1151 SERIES, AT 4.0 MILS WET, 1.5 MILS DRY, PER COAT
- 4. TOPCOAT: LIGHT INDUSTRIAL COATING, INTERIOR, WATER-BASED, GLOSS: A. S-W PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY, K45-1151 SERIES, AT 4.0 MILS WET, 1.5 MILS DRY, PER COAT

- FIRE PROTECTION SPECIALTIES SEMI-RECESSED (HANDICAP COMPLIANT) FIRE EXTINGUISHER CABINETS (FIRE RATED CABINETS IN FIRE RATED WALLS) WITH A,B,C
- RATED FIRE EXTINGUISHERS.

WALL MOUNTED FIRE EXTINGUISHERS A,B,C RATED (FOR USE IN SERVICE OR UTILITARIAN AREAS)

COMMERCIAL KITCHEN EQUIPMENT: COORDINATE WITH OWNER.

DIVISION 12: FURNISHINGSFURNISHINGS ARE TO BE SELECTED AND PROVIDED BY OWNER.

DIVISION 13, 14, 15: NOT USED

 A FIRE ALARM SYSTEM WILL BE REQUIRED THROUGHOUT THE BUILDING. ANY MODIFICATIONS TO THE EXISTING SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. THAT SUB WILL BE REQUIRED TO MAKE DEFERRED SUBMITTALS OF THE FIRE ALARM DRAWINGS TO THE LOCAL FIRE DEPARTMENT.

NFPA TYPE 13 SPRINKLERS WILL BE REQUIRED THROUGHOUT THE BUILDING. ANY MODIFICATIONS TO THE EXISTING FIRE SPRINKLER

DIVISION 17, 18, 19, 20: NOT USED

SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. THAT SUB WILL BE REQUIRED TO MAKE DEFERRED SUBMITTALS OF THE SPRINKLER DRAWINGS & CALCULATIONS TO THE LOCAL FIRE DEPARTMENT.

SEE PLUMBING ENGINEER'S DRAWINGS

DIVISION 23: HVACSEE MECHANICAL ENGINEER'S DRAWINGS

DIVISION 24 & 25: NOT USED

SEE ELECTRICAL ENGINEER'S DRAWINGS

 AN EMERGENCY RESPONDER RADIO AMPLIFICATION SYSTEM MAY BE REQUIRED IN THIS BUILDING. THE NEED FOR THE SYSTEM WILL BE DETERMINED BY TESTING ONCE THE BUILDING SHELL IS COMPLETE. THE INITIAL TESTING IS TO BE PROVIDED AS PART OF THE BASE BID. SEE ALTERNATES. IF THE BUILDING FAILS THE TESTING, THE OWNER MAY ACCEPT THE ALTERNATE, WHICH IS TO INSTALL THE COMPLETE SYSTEM AND PERFORM FINAL TESTING TO DEMONSTRATE TO FIRE DEPARTMENT'S SATISFACTION THAT THE SYSTEM IS FUNCTIONAL. THE EMERGENCY RADIO AMPLIFICATION SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR UNDER BY THE GC. THAT SUB WILL BE REQUIRED TO MAKE DEFERRED SUBMITTALS OF THE TEST CERTIFICATES TO THE LOCAL FIRE DEPARTMENT IN ADDITION TO SUBMITTALS TO THE ARCHITECT AND OWNER.

DIVISION 28, 29, 30, 31, 32: NOT USED

DIVISION 33: UTILITIES SEE CIVIL DRAWINGS

LARSEN STRUCTURAL DESIGN **MECHANICAL ENGINEER** INTEGRATED MEP, LLC.

2024-53

BONCHON &

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

PLUMBING ENGINEER: INTEGRATED MEP, LLC

APS, INC.

STRUCTURAL ENGINEER:

DESIGN DEVELOPMENT

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



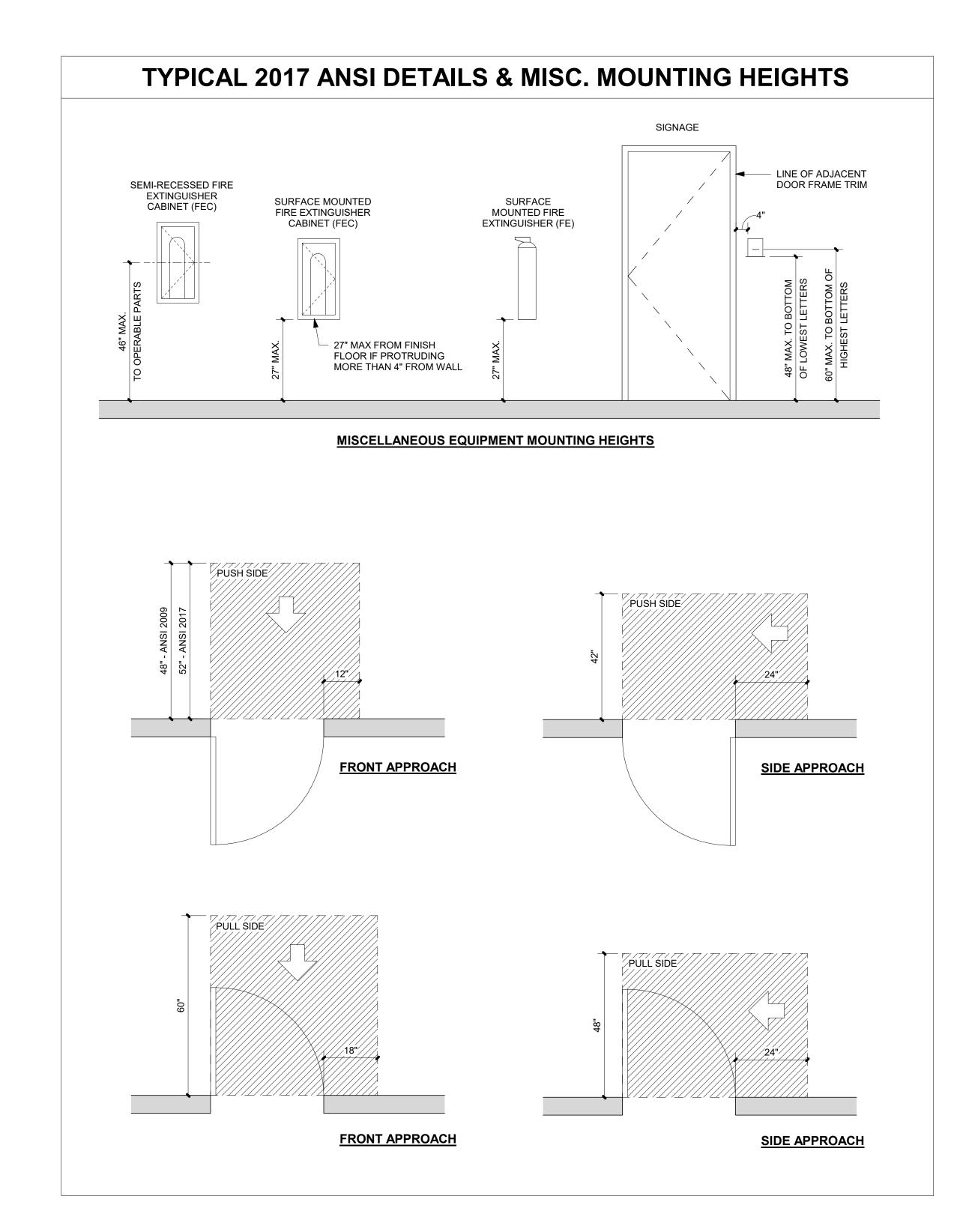
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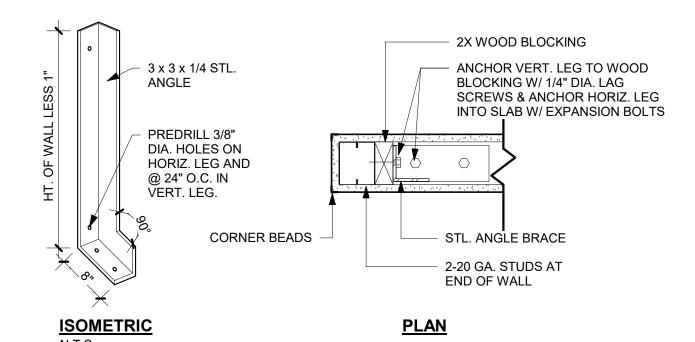
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OUTLINE **SPECIFICATIONS & PROJECT** INFORMATION

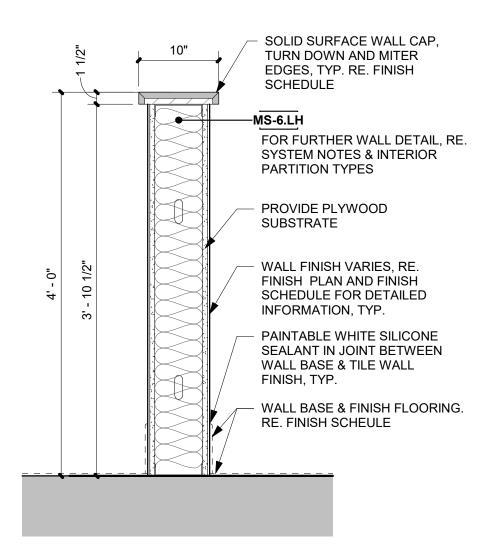
DRAWING NUMBER:

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

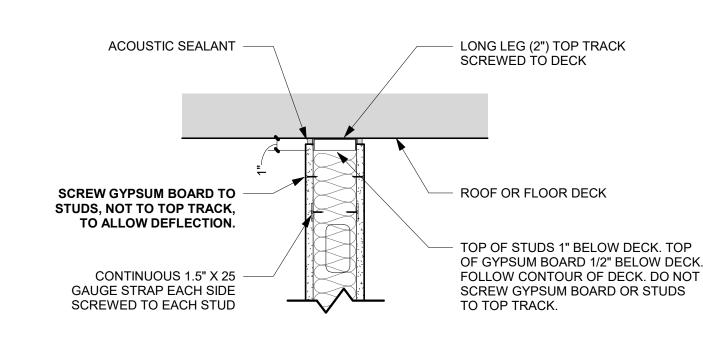




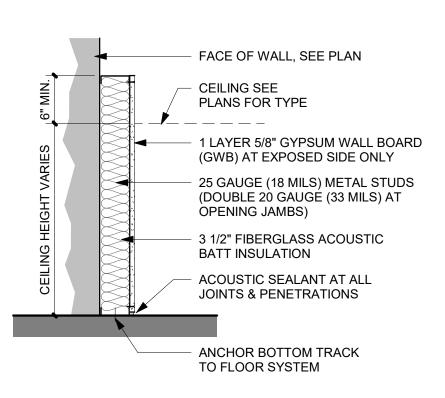
WALL PARTITION - BRACE AT FREE END OF LOW WALLS (MTL. STUDS)



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



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



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

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

FLOORS

· CONCRETE SLAB INFILL PER STRUCT. COORDINATE WITH STRUCT.

CEILINGS

REFER TO CEILING TYPES LEGEND ON SHEET A2.1

INTERIOR PARTITION NOTES

- ALL INTERIOR PARTITIONS ARE MS-3 UNLESS NOTED OTHERWISE ON THE FLOOR
- 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.
- 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 I	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" (600\$125-18/33)	24" O.C.	16' - 9"
6" (600\$125-18/33)	16" O.C.	17' - 11"

IN FIRE RATED PARTITONS,

STUD SIZE

3-5/8"

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

UL **ASSEMBLY**

RATING

FIRESTOPPING IS REQ'D AT ALL

PENETRATIONS AND JOINTS. JOINT AT

BOTTOM OF WALL: UL SYSTEM NO. BW-

S-0014 OR ACCEPTABLE SUBSTITUTION.

PARTITION

MS-2 MS-3

MS-6 MS-8

TYPE:

- 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)

BONCHON & BROWN DONKATSU

2024-53

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 COMMUNITY

PROJECT TEAM

STRENGTH IN PARTNERSHIP

STRUCTURAL ENGINEER: LARSEN STRUCTURAL DESIGN

INTEGRATED MEP, LLC.

MECHANICAL ENGINEER:

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

BRACE STUDS TO STRUCTURE

ABOVE @ 4' - 0" O.C.

CEILING SEE

PLANS FOR TYPE

OPENING JAMBS)

BATT INSULATION

- 1 LAYER 5/8" GYPSUM WALL BOARD (TYPE X FOR RATED

25 GAUGE (18 MILS) METAL STUDS

(DOUBLE 20 GAUGÉ (33 MILS) AT

- 3 1/2" FIBERGLASS ACOUSTIC

ACOUSTIC SEALANT AT ALL

JOINTS & PENETRATIONS

ANCHOR BOTTOM TRACK

DESCRIPTIONS

SEE INTERIOR PARTITION NOTES

FOR SUFFIXES / MODIFIER

TO FLOOR SYSTEM

PARTITIONS) EACH SIDE



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SYSTEM NOTES & INTERIOR PARTITION TYPES

DRAWING NUMBER:

G0.3

2024-53 CITY OF FORT COLLINS - BUILDING SERVICES DEPARTMENT POUDRE FIRE **BONCHON &** 2021 IBC - INTERNATIONAL BUILDING CODE **BROWN** 2021 IFC - INTERNATIONAL FIRE CODE **DONKATSU** 2021 IMC - INTERNATIONAL MECHANICAL CODE 2021 IPC - INTERNATIONAL PLUMBING CODE CITY OF FORT COLLINS - ORDINANCE #021 - BUILDING CODE AMENDMENTS, REVISED JANUARY 24, 2022 7 OLD TOWN SQUARE FORT COLLINS, CO 80524 2017 ICC / ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CONSTRUCTION TYPE: V-B NFPA TYPE 13 OCCUPANCY SEPARATION: NO 419 CANYON AVE STE 200, FORT COLLINS, CO 80521 970.224.1191 | WWW.VFLA.COM COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1)
[A] OCCUPANCY WITH SPRINKLERS 75'-0" STRENGTH IN DESIGN STRENGTH IN PARTNERSHIP [A] OCCUPANCY WITH SPRINKLERS STRENGTH IN COMMUNITY PROJECT TEAM CODE REQUIRED INTERIOR SIGNAGE:
THE FOLLOWING SIGNAGE WILL BE REQUIRED BY CODE AS A MINIMUM STRUCTURAL ENGINEER: LARSEN STRUCTURAL DESIGN BRAILLE SHALL COMPLY WITH ICC/ANSI A117.1. **MECHANICAL ENGINEER:** EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL INTEGRATED MEP, LLC. PLUMBING ENGINEER: INTEGRATED MEP, LLC. ELECTRICAL ENGINEER: APS, INC. SIGNAGE INDICATING ROOF ACCESS OPENINGS" OR OTHER WORDING. PLUMBING CALCS DESIGN DEVELOPMENT SHEET ISSUANCES **DESIGN DEVELOPMENT** CONSTRUCTION DOCUMENTS **REQUIRED SERVICE SINKS:** 1 SERVICE SINK **PROVIDED SERVICE SINKS:** 1 SERVICE SINK **REQUIRED DRINKING FOUNTAINS:** 1:500 **PROVIDED DRINKING FOUNTAINS:** 2 DRINKING FOUNTAINS WHERE DRINKING FOUNTAINS ARE REQUIRED, <u>NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED</u>. 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 REQUIRED NUMBER OF DRINKING FOUNTAINS. FE STINGUISHER WALL MTD FIRE EXTINGUISHER IN CABINET ROOM# - ROOM AREA PROVIDED LOAD FACTOR VAUGHT FRYE LARSON ARONSON ARCHITECTURE + INTERIORS, INC. STORAGE @ 300 S.F. PER OCCUPANT 2 OCCUPANTS SHOWN KITCHEN, COMMERCIAL @ 200 S.F. PER OCCUPANT 11 OCCUPANTS SHOWN ASSEMBLY (STANDING) @ 7 S.F. PER OCCUPANT 39 OCCUPANTS SHOWN ASSEMBLY (TABLES & CHAIRS) @ 15 S.F. PER OCCUPANT DRAWING NUMBER: 125 OCCUPANTS SHOWN G0.4

CODE DATA

APPLICABLE CODES:

2021 IECC - INTERNATIONAL ENERGY CONSERVATION CODE

2021 IFGC - INTERNATIONAL FUEL GAS CODE

2023 NEC - NATIONAL ELECTRIC CODE 2021 IEBC - INTERNATIONAL EXISTING BUILDING CODE

CITY OF FORT COLLINS - LAND USE CODE, REVISED APRIL 4, 2023 2022 FDA FOOD CODE (ADOPTED JAN 18, 2023)

ACCESSIBILITY STANDARDS:

OCCUPANCY GROUP(S): A-2

SPRINKLER SYSTEM:

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)

DEAD END CORRIDORS (TABLE 1020.5)

[A] OCCUPANCY WITH SPRINKLERS

WHETHER SIGNAGE IS BEING FURNISHED BY THE OWNER THROUGH A VENDOR OR BY THE GC THROUGH A SUB. SIGNAGE LETTERING AND

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.

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

OCCUPANCY COUNT: 177 OCCUPANTS / 89 PER GENDER

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

CODE REVIEW PLANS LEGEND

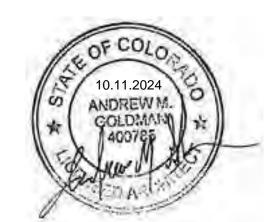
ROOM TAG - CODE EXITS REQUIRED -# OF OCCUPANTS →

OCCUPANY TYPE LEGEND

OCCUPANCY COUNT = 177 OCCUPANTS



09-20-2024 10-11-2024



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CODE REVIEW PLANS



REMOVE ALL FLOOR FINISH AND

WALL BASE THIS AREA

8

REMOVE ALL FLOOR

FINISH AND WALL

BASE THIS AREA

LINE OF STEP IN FLOOR

REMOVE ALL FLOOR FINISH AND

WALL BASE THIS AREA

QUARRY TILE TO REMAIN

REMOVE ALL FLOOR

FINISH AND WALL

BASE THIS ROOM

GARAGE DOOR

9 _ _ _

REMOVE ALL FLOOR

FINISH AND WALL

BASE THIS AREA

(E) FLOOR

DRAIN

4 5

REMOVE ALL FLOOR

FINISH AND WALL

BASE THIS ROOM

(E) FLOOR DRAIN

REMOVE ALL FLOOR FINISH AND WALL BASE THIS ROOM

(E) FLOOR

DRAIN

REMOVE ALL FLOOR

FINISH AND WALL BASE THIS ROOM

OWNER PRIOR TO DEMOLITION -----_____ SUBSTANTIVE CHANGES TO THE PLAN SHALL BE SUBJECT TO PRIOR APPROVAL BY THE BUILDING OFFICIAL. +/- 4' - 10 3/4" V.I.F. (8) REMOVE (E) HANDRAILS / GUARDRAILS 9 REMOVE (E) STAIR / RAMP ARCH AND ELEC DWGS

DEMOLITION PLAN GENERAL NOTES

1. GC SHALL FIELD VERIFY ALL ITEMS TO BE SALVAGED WITH

2. 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.

3. 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.

4. 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.

5. 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.

8. CAP AND SEAL ALL EXISTING UNUSED PLUMBING, MECHANICAL OR ELECTRICAL UTILITIES. CONCEAL WITHIN WALL OR BELOW SLAB.

9. GC SHALL PROVIDE DUST AND SOUND CONTROL AS REQUIRED DURING DEMOLITION AND CONSTRUCTION

10. 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.

11. DUE TO THE AGE OF THE BUILDING DISCREPANICES ARE EXPECTED. GC SHALL FIELD VERIFY ALL CONDITIONS AND NOTIFY ARCHITECT OF DISCREPANICES 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 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 RECYCYLED, 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.

DEMO PLAN KEYED NOTES LEGEND

1 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)

(5) REMOVE (E) WALL BASE

(7) REMOVE (E) CASEWORK / FURNITURE

REMOVE (E) PLUMBING FIXTURES AND ASSOCIATED PIPING NOT SCHEDULED TO REMAIN; FIELD VERIFY EXTENT OF REMOVAL BACK TO MAIN SERVICE ELEMENTS:

REMOVE / MODIFY (E) HVAC SYSTEM COMPONENTS;

PROVIDE NEW OPENING IN EXISTING WALL (VIF), COORD W/ STRUCT DWGS AND ARCH PLANS

BONCHON & BROWN DONKATSU

2024-53

7 OLD TOWN SQUARE FORT COLLINS, CO 80524



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

INTEGRATED MEP, LLC.

MECHANICAL ENGINEER:

PLUMBING ENGINEER: INTEGRATED MEP, LLC.

ELECTRICAL ENGINEER: APS, INC.

DESIGN DEVELOPMENT

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

REMOVE EXTENT OF (E) CEILING / SOFFIT (VIF)

REMOVE (E) LIGHT FIXTURES, AND ASSOCIATED CONDUIT, J-BOXES, RÉCEPTACLES, ETC AS REQ'D U.N.O. (VIF), RE:

COORD W/ ARCH AND PLUMBING DWGS

REMOVE / MODIFY (E) HVAC SYSTEM COMPONENTS;
COORD EXTENT OF MODIFICATIONS PER ARCH AND MECH

REMOVE EXISTING KITCHEN EQUIPMENT, CONFIRM ALL ITEMS TO BE SALVAGED PRIOR TO DEMOLITION W/

ANDREW M. COLDMAN

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DEMOLITION FLOOR PLAN

DRAWING NUMBER:

TILE AND WALL

BASE TO REMAIN

QUARRY FLOOR

TILE AND WALL

BASE TO REMAIN

NEW OPENING FOR NEW

DOOR, RE: FLOOR PLAN

AND DOOR SCHEDULE

QUARRY FLOOR

TILE AND WALL

BASE TO REMAIN

CEILING TO REMAIN

AREA OUT OF SCOPE

10

10 0 = = =

CEILING AND TRACK LIGHT TO REMAIN

10

10

CEILING TO REMAIN

CEILING AND LIGHT

FIXTURE TO REMAIN

10

1. GC SHALL FIELD VERIFY ALL ITEMS TO BE SALVAGED WITH OWNER PRIOR TO DEMOLITION

2. 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.

3. 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.

4. 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.

5. LEAVE CLEAN, STRAIGHT EDGES WITH NO LOOSE OR CRACKED MATERIAL WHERE NEW FINISHES SUCH AS TRIM OR SEALANT WILL ADJOIN EXISTING FINISHES.

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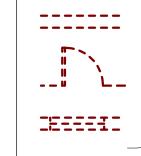
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DEMOLITION PLAN LEGEND

EXISTING PARTITION TO REMAIN

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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 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 RECYCYLED, 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.

1 REMOVE (E) WALL AS INDICATED (VIF)

REMOVE (E) WALL FINISH (VIF)

REMOVE (E) FLOOR FINISH AND ALL ASSOCIATED ADHESIVE / GROUT RESIDUE (VIF)

(5) REMOVE (E) WALL BASE

(7) REMOVE (E) CASEWORK / FURNITURE

(8) 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

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

PROVIDE NEW OPENING IN EXISTING WALL (VIF), COORD W/ STRUCT DWGS AND ARCH PLANS

BONCHON & BROWN DONKATSU

2024-53

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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.

DESIGN DEVELOPMENT

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

DEMO PLAN KEYED NOTES LEGEND

REMOVE (E) DOOR / JAMB ASSEMBLY (VIF)

REMOVE EXTENT OF (E) CEILING / SOFFIT (VIF)

REMOVE (E) PLUMBING FIXTURES AND ASSOCIATED PIPING NOT SCHEDULED TO REMAIN; FIELD VERIFY

REMOVE EXISTING KITCHEN EQUIPMENT, CONFIRM ALL ITEMS TO BE SALVAGED PRIOR TO DEMOLITION W/



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DEMOLITION REFLECTED CEILING **PLAN**

DRAWING NUMBER:

A0.2

DEMOLITION REFLECTED CEILING

CEILING AND LIGHT FIXTURES TO REMAIN

10

10

CEILING AND LIGHT FIXTURES TO REMAIN U.N.O. AREA OUT OF SCOPE

(10)

(∘)10

(\circ **)**10

CEILING AND LIGHT

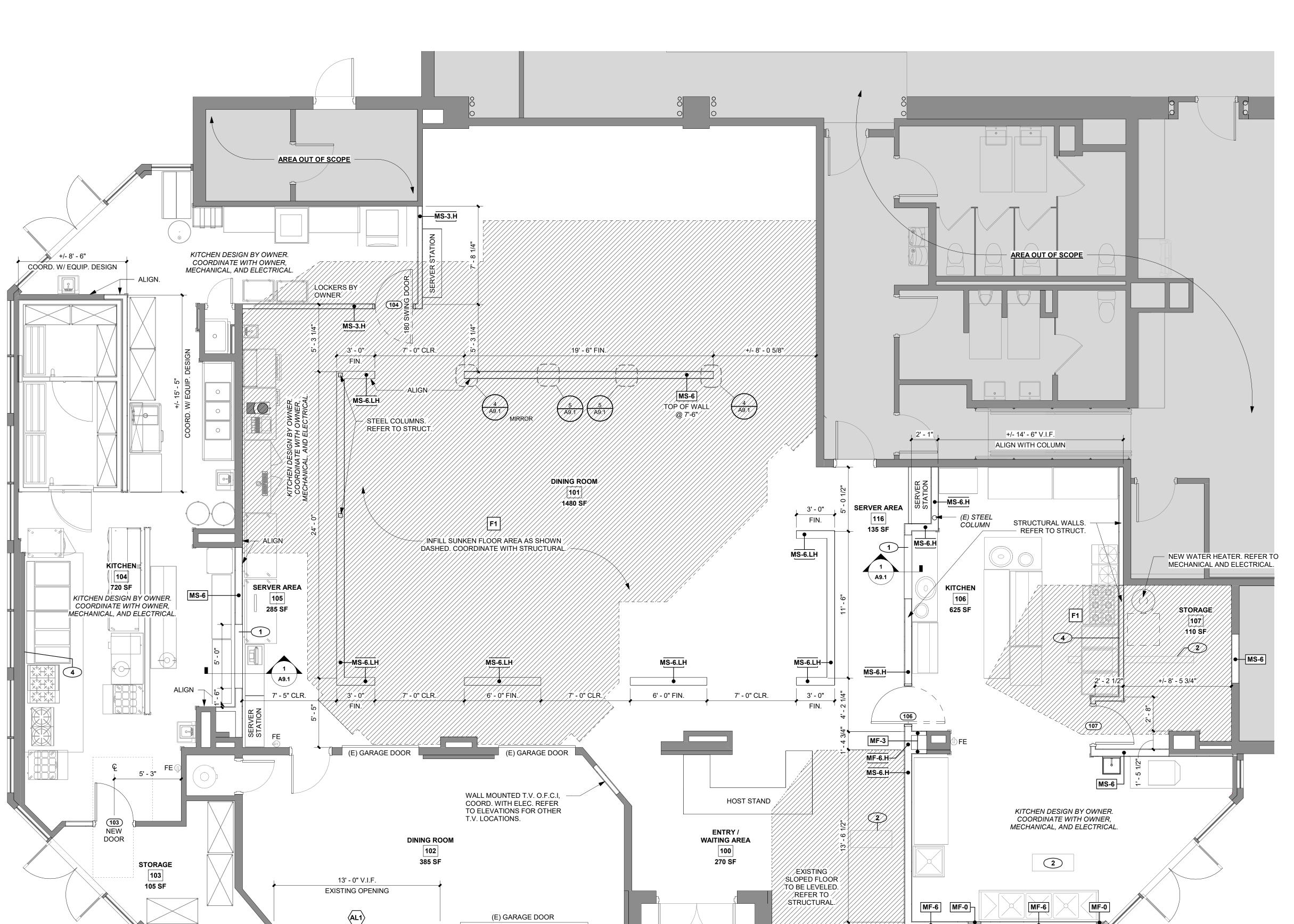
FIXTURES TO REMAIN

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





ALIGN WITH MULLION



FLOOR PLAN GENERAL NOTES

1. 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

3. REFER TO A7.1 FOR DOOR AND WINDOW SCHEDULE

4. PARTITIONS TO BE "MS-3" U.N.O. SEE SHEET G0.3 FOR PARTITION SCHEDULE

5. ALL SCHEDULED INTERIOR DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE 4" MIN FROM THE ADJACENT WALL FACE OF FINISH, U.N.O.

6. 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

9. FLOOR FINISHES LEFT OFF PLAN FOR CLARITY. REFER TO SHEET A8.1 FOR FINISH PLANS

10. CONTROL JOINTS IN GYP WALLS AND CEILINGS TO BE INSTALLED EVERY 30' MAX PER MANUFACTURER

11. ALL EXPOSED PLUMBING, PIPING, CLEANOUT COVERS, CONDUIT, SPRINKLERS, ETC SHALL BE PAINTED TO MATCH ADJACENT FINISH, TYP U.N.O.

12. THE OWNER IS RESPONSIBLE FOR COORDINATING INTERIOR SIGNAGE AND ARTWORK AS REQ'D.

13. THE OWNER IS RESPONSIBLE FOR COORDINATING

DESIGN APPROVAL BY FRANCHISE ENTITY.

CONNECTIONS.

14. 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

15. GC SHALL PROVIDE AND VERIFY QUANTITY / LOCATION OF FIRE EXTINGUISHERS PER LOCAL AHJ

16. REPLACE OR REPAIR DAMAGED, DETERIORATED OR UNSUITABLE SUBSTRATES AS REQUIRED TO RECEIVE NEW WALL FINISHES AS SCHEDULED.

17. DUE TO THE AGE OF THE BUILDING DISCREPANICES 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.

18. 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.

19. 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.

20. GC SHALL COORDINATE NEW CONSTRUCTION INCLUDING MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL WORK WITH EXISTING STRUCTURE.

21. ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.

FLOOR PLAN LEGEND

EXISTING WALLS TO REMAIN

NEW PARITIONS/WALLS. SEE SCHEDULE FOR TYPE.

FE THE 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

1 EXPO PASSTHROUGH. 5'-0" W X 2'-0" H, 3'-0" A.F.F.

2 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 THEN 18

INCHES IN ALL DIRECTIONS FROM THE HOOD.

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2024-53

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

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

MECHANICAL ENGINEER:

ELECTRICAL ENGINEER: APS, INC.

DESIGN DEVELOPMENT

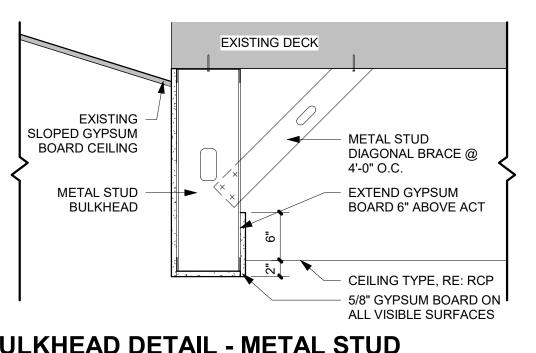
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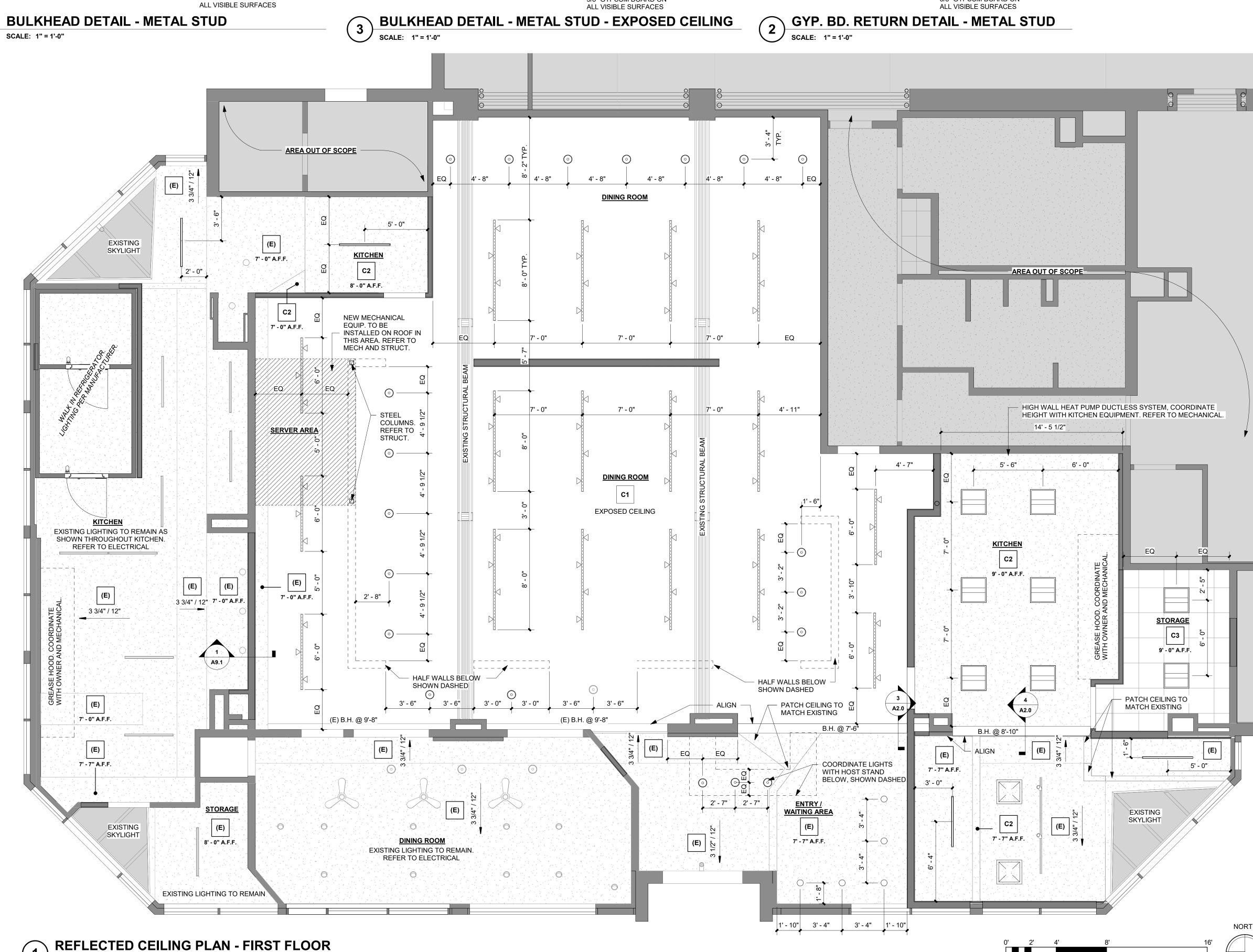
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FLOOR PLAN



DECK METAL STUD DIAGONAL METAL STUD BRACE @ 4'-0" O.C. BULKHEAD EXTEND GYPSUM EXTEND GYPSUM -BOARD 6" ABOVE ACT **BOARD FULL** HEIGHT TO DECK EXISTING CEILING, RE: RCP 5/8" GYPSUM BOARD ON ALL VISIBLE SURFACES

DECK METAL STUD BULKHEAD METAL STUD DIAGONAL BRACE @ 4'-0" O.C. CEILING TYPE RE: RCP 5/8" GYPSUM BOARD ON ALL VISIBLE SURFACES



RCP GENERAL NOTES

1. 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

. 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

6. CENTER ACT PANELS IN ROOM, TYP U.N.O.

7. ALL BULKHEADS TO BE MS-6, U.N.O.

LIGHT TYPES

8. ALL EXISTING CEILINGS TO REMAIN ARE TO BE PATCHED AND REPAIRED AS NEEDED.

9. INSTALL DIFFUSERS PER LOCATION SHOWN ON ARCHITECTURAL RCP. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER TYPES

10. 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

11. ALL EXPOSED PLUMBING, CONDUIT, SPRINKLERS, ETC SHALL BE PAINTED TO MATCH ADJACENT CEILING FINISH, TYP U.N.O.

12. 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

13. REFER TO GENERAL FINISH NOTES (A8.0) FOR ADDITIONAL FINISH INFORMATION

14. REFER TO INTERIOR FINISH NOTES (A8.0) FOR FINISH ON DUCTWORK AND GRILLES

15. DUE TO THE AGE OF THE BUILDING DISCREPANICES ARE EXPECTED. GC SHALL FIELD VERIFY ALL CONDITIONS AND NOTIFY ARCHITECT AND OWNER OF DISCREPANICES IMMEDIATELY.

GYP. BD. BULKHEAD

RCP LIGHTING TYPE LEGEND

SUPPLY AIR DIFFUSER PER MECH. DWG.

RETURN AIR DIFFUSER PER MECH. DWG.

SURFACE MOUNT LIGHT FIXTURE PER ELECT. DWG.

RECESSED LIGHT FIXTURE

PER ELECT. DWG.

TRACK LIGHT FIXTURE PER ELECT. DWG. SELECTION BY OWNER

RECESSED LIGHT FIXTURE

PER ELECT. DWG. PENDANT LIGHT FIXTURE PER ELECT. DWG.

SELECTION BY OWNER CEILING FAN PER ELECT. DWG.

CEILINGS

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

C1 EXPOSED STRUCTURE
• EXPOSED ROOF DECK & STRUCTURE.

• 5/8" GYPSUM BOARD (PAINTED) METAL FRAMING OR METAL SUSPENSION SYSTEM (CONTRACTOR OPTION)

(E) EXISTING CEILING
• TO REMAIN

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> STRENGTH IN DESIGN STRENGTH IN PARTNERSHIP STRENGTH IN COMMUNITY

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

ELECTRICAL ENGINEER: APS, INC.

DESIGN DEVELOPMENT

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

 PAINT (PT-2) GYPSUM BOARD

_____ • 24"x24" ACOUSTIC CEILING TILE IN

• 9/16" PREFIN. METAL SUSPENSION SYSTEM (WHITE) MANUFACTURER AS DETERMINED BY G.C.

PATCH AND REPAIR AS NEEDED



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REFLECTED CEILING **PLAN**

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

НМ

НМ

HM

НМ

HM1

HM1

HM1

HM1

PTD

PTD

PTD

PTD

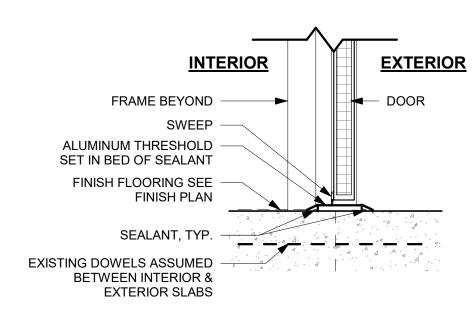
1 / A7.1

PTD

PREFIN

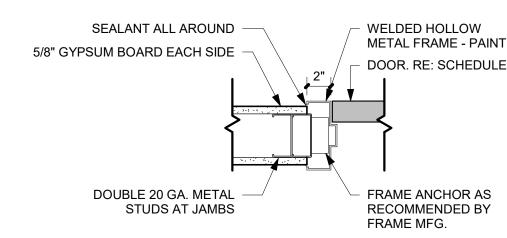
PREFIN

PTD



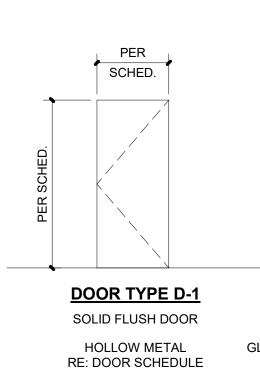
TYP. SILL DETAIL @ EXT. SWING **DOORS**

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



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

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



DOOR TYPES

103

104

106

D-1

D-2

D-2

3' - 0"

3' - 0"

3' - 0"

3' - 0"

7' - 0"

7' - 0"

7' - 0"

7' - 0"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

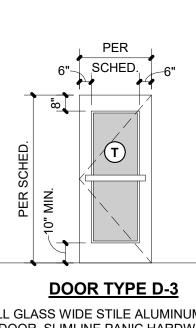
ALUM

ALUM

НМ

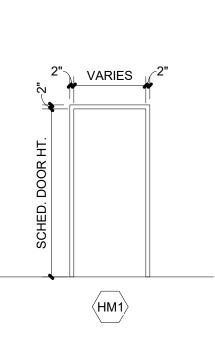
DOOR TYPE D-2 FLUSH DOOR WITH NARROW LITE GLAZED WITH 1/4" CLEAR TEMPERED GLASS

B.O.D. ELIASON LWP-3 TRAFFIC DOOR

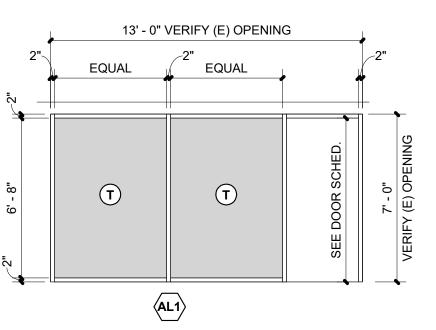


FULL GLASS WIDE STILE ALUMINUM ENTRY DOOR. SLIMLINE PANIC HARDWARE -FINISH TO MATCH DOOR GLAZE WITH 1" INSULATED CLEAR TEMPERED GLASS

U-VALUE OF DOOR ASSEMBLY = 0.63, MAX. SHGC OF GLAZING = 0.33, MAX.



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

DOOR AND WINDOW NOTES

1. 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.

6. 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

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

HARDWARE SET #1 - STORAGE

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

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

ALUMINUM **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:

1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET (0.84 M2). 2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES (457 MM) ABOVE THE FLOOR. 3. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36 INCHES (914 MM) ABOVE THE FLOOR. 4. 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

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.

4. 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. 6. 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

9. PROVIDE SAFETY GLAZING AT LOCATIONS INDICATED AND AS REQUIRED BY 2021 IBC AND

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> STRENGTH IN DESIGN STRENGTH IN PARTNERSHIP

> > PROJECT TEAM

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STRUCTURAL ENGINEER: LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:

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

ELECTRICAL ENGINEER: APS, INC.

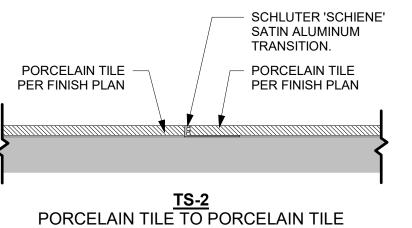
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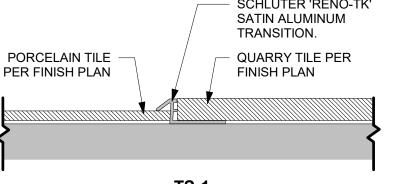
DESCRIPTION DESIGN DEVELOPMENT 09-20-2024 CONSTRUCTION DOCUMENTS 10-11-2024



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DOOR AND WINDOW **SCHEDULES**





TS-1
QUARRY TILE TO PORCELAIN TILE

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.

METAL STUDS - 20 GAUGE (0.039") OR HEAVIER

MATERIALS:

- GYPSUM BOARD ASTM C36 or C630 DRY-SET MORTAR - ANSI A118.1
- LATEX-PORTLAND CEMENT MORTAR ANSI
- A118.4 GROUT - ANSI A118.6 or A118.7

PREPARATION BY OTHER TRADES: MAX. VARIATION IN THE GYPSUM BOARD

SURFACE - 1/4" IN 10'-0" FROM THE REQUIRED GYPSUM BOARD JOINTS - TREATED WITH TAPE

AND JOINT COMPOUND, BEDDING COAT ONLY (NO FINISH COATS), NAIL HEADS, ONE COAT

INSTALLATION SPECIFICATIONS: GYPSUM BOARD - GA-216

 TILE - ANSI A108.5 GROUT - ANSI A108.10 **BONCHON & DONKATSU**

2024-53

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MECHANICAL ENGINEER INTEGRATED MEP, LLC. PLUMBING ENGINEER:

INTEGRATED MEP, LLC APS, INC.

EXTERIOR-GLUE PLYWOOD WITH 1/8" GAP BETWEEN SHEETS MAXIMUM VARIATION IN PLYWOOD SURFACE SHALL NOT EXCEED 1/4" IN 10'-0" FROM THE

F148-03

CERAMIC / PORCELAIN TILE

LATEX-PORTLAND CEMENT

SINGLE LAYER WOOD FLOOR

DRY-SET MORTAR OR

MORTAR BOND COAT

UNCOUPLING SYSTEM

LATEX PORTLAND

CEMENT MORTAR

TRUSS OR I-JOIST

19.2" O.C.

OF JOINT AND SHOW LOCATION AND DETAILS ON DRAWINGS): MOVEMENT JOINTS - MANDATORY IN

ACCORDANCE WITH METHOD EJ171, PAGE 44

INSTALLATION SPECIFICATIONS:

- TILE ANSI A108.5
- GROUT ANSI A108.10 UNCOUPLING SYSTEM - FOLLOW MANUFACTURER'S DIRECTION

DESIGN DEVELOPMENT

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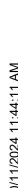


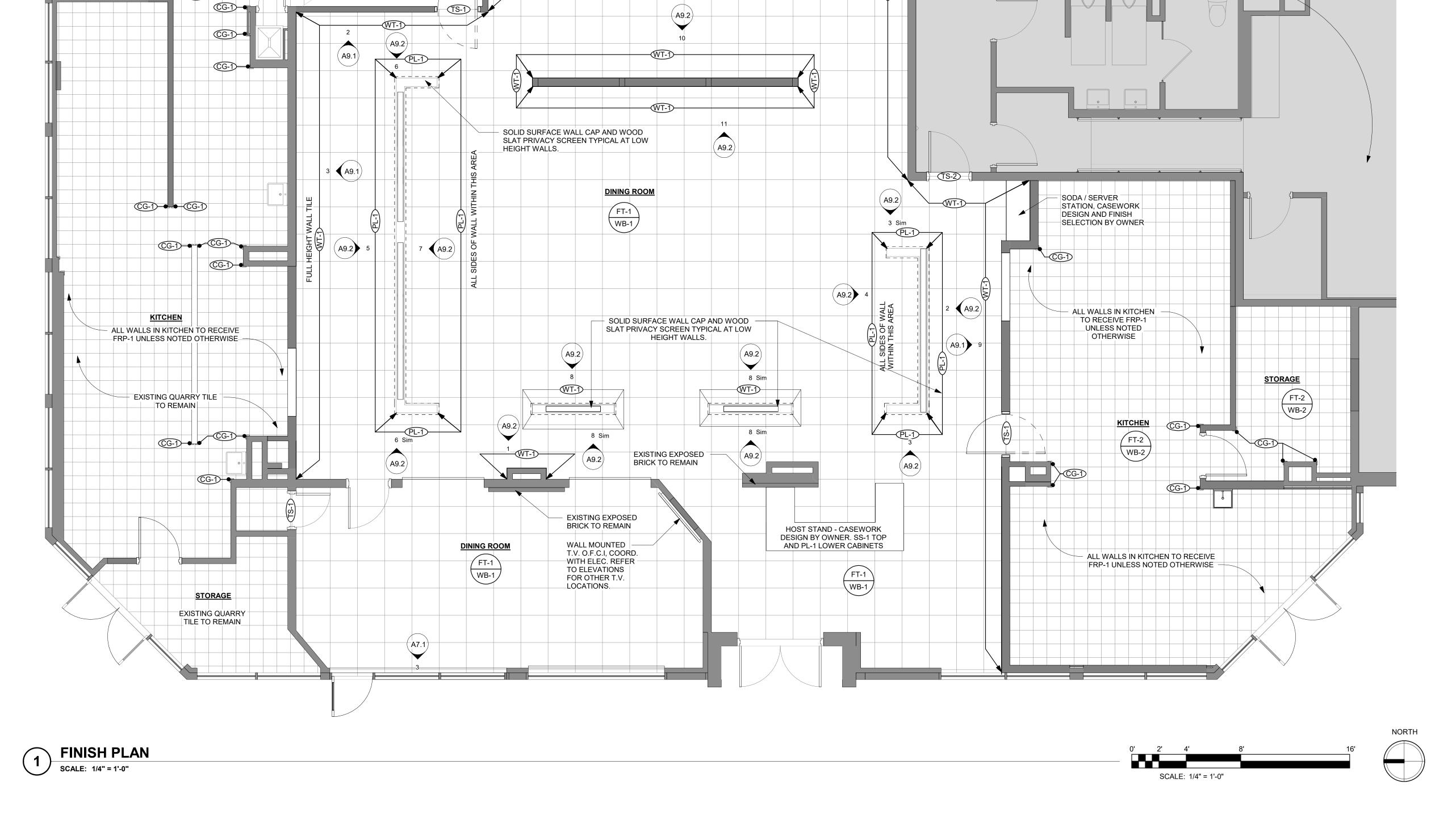
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MATERIAL FINISH LEGEND & NOTES

DRAWING NUMBER:





(A9.1)

A9.1 7

AREA OUT OF SCOPE

- (E) BRICK TO REMAIN EXPOSED

SERVER STATION,

CASEWORK DESIGN AND FINISH
SELECTIONS BY OWNER

DINING ROOM

AREA OUT OF SCOPE

EXISTING TILE NEW TILE

ALL WALLS IN KITCHEN TO RECEIVE

FT-2 WB-2 ROJECT NUMBER: 2024-53

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7 OLD TOWN SQUARE FORT COLLINS, CO 80524



RCHITECTURE + INTERIOR

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

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
DESIGN DEVELOPMENT
CONSTRUCTION DOCUMENTS

09-20-2024
10-11-2024



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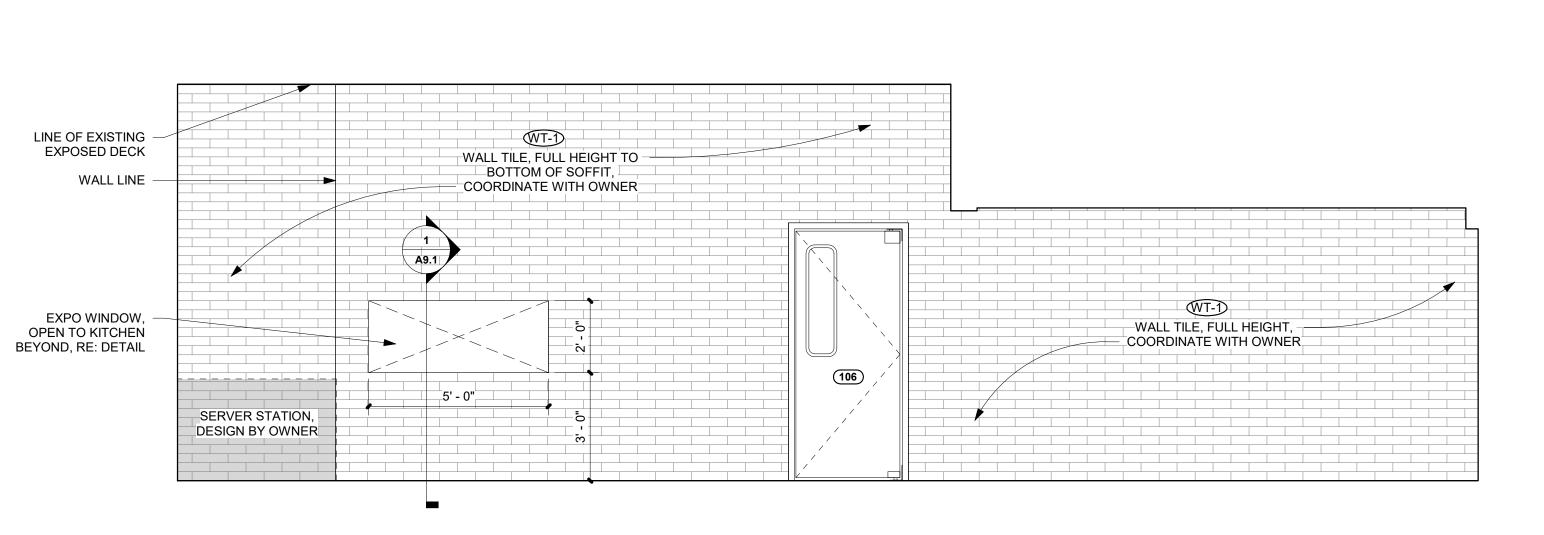
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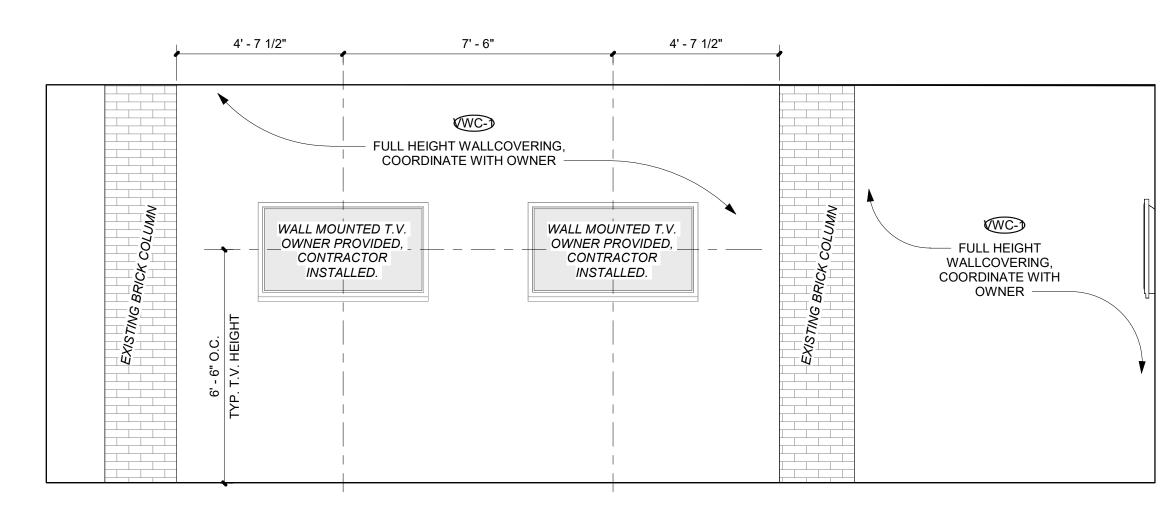
FINISH PLAN

DRAWING NUMBER:

A8.1



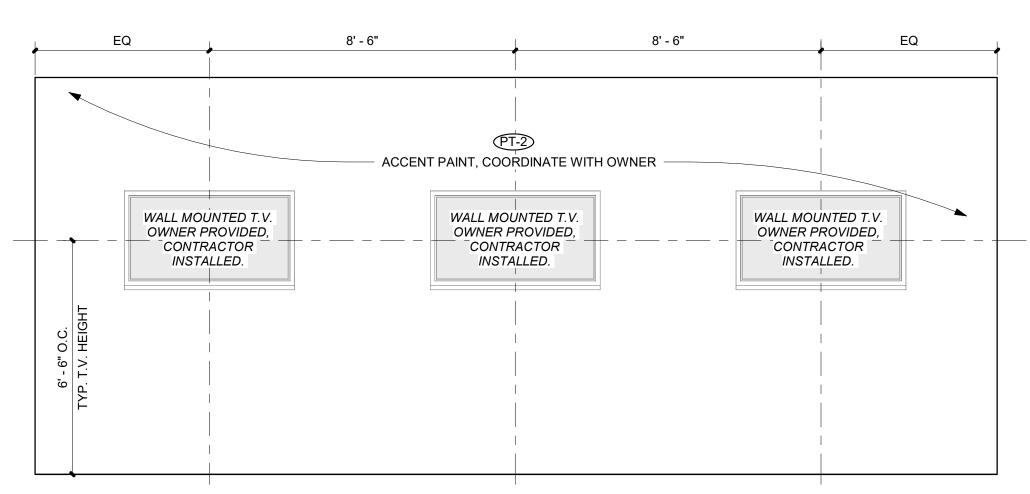


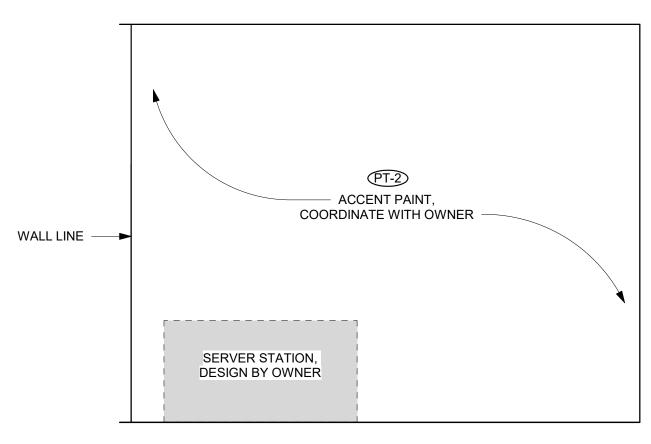


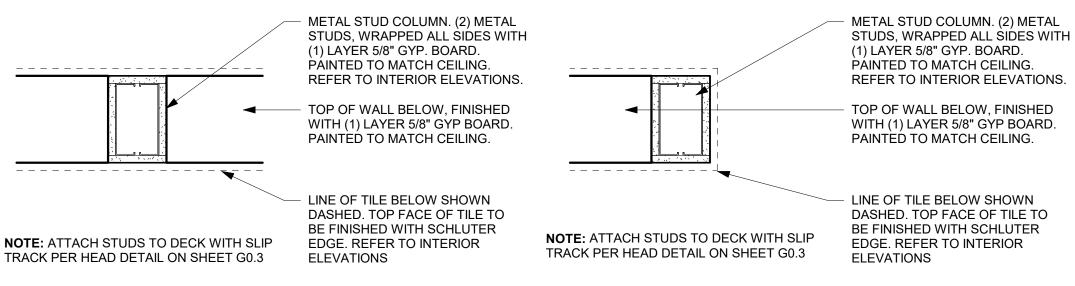
EAST DINING ROOM - EAST ELEVATION

9 SOUTH SERVER AREA - SOUTH ELEVATION

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







CEILING TYPE, RE. RCP

PROVIDE FRP AT ALL BACK OF HOUSE KITCHEN AREAS, U.N.O. RE. FINISH PLAN AND

WRAPPED STUD COLUMN DETAIL

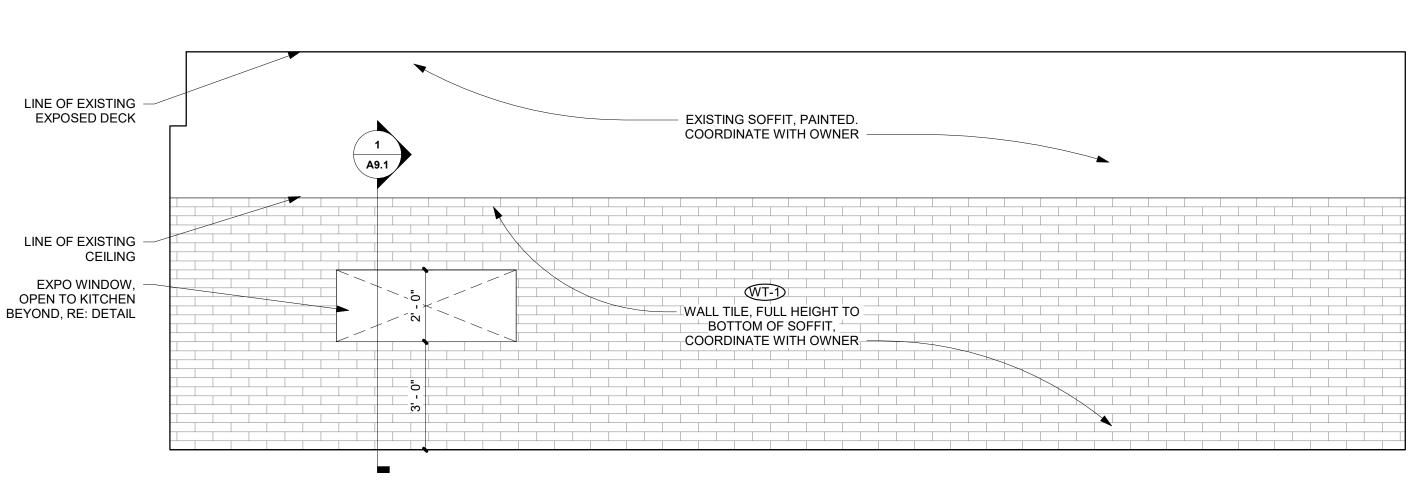


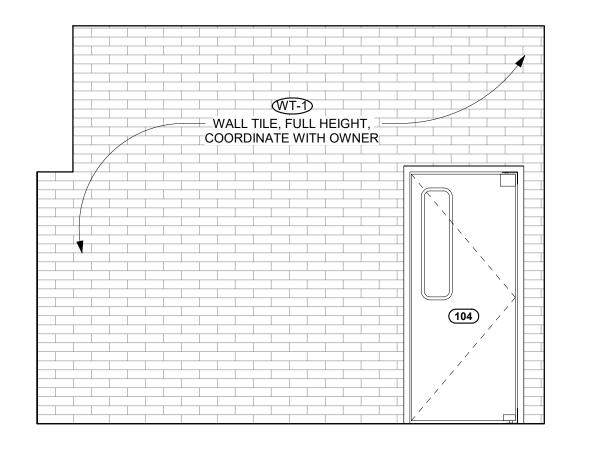
WALL TILE, RE. FINISH

SCHEDULE

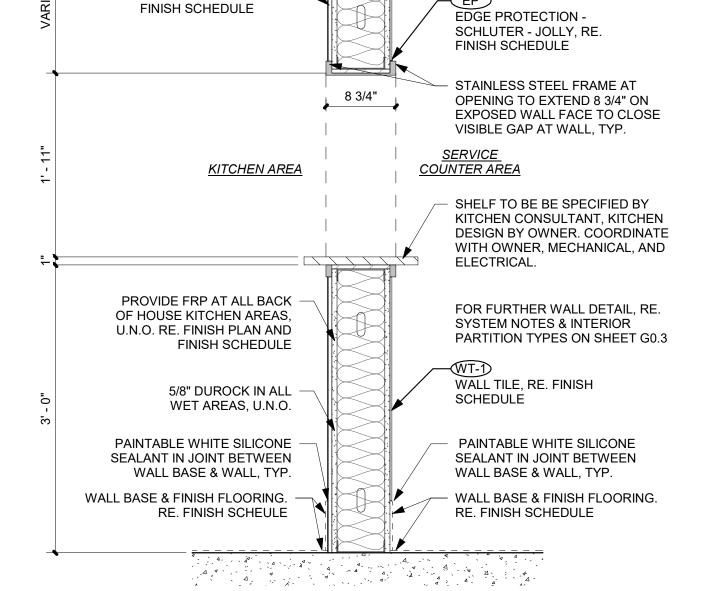
EAST DINING ROOM - SOUTH ELEVATION

EAST DINING ROOM - NORTH ELEVATION





NORTH SERVER AREA - EAST ELEVATION



EXPO PASSTHROUGH DETAIL SCALE: 1" = 1'-0"

BONCHON & BROWN DONKATSU

2024-53

7 OLD TOWN SQUARE FORT COLLINS, CO 80524



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STRENGTH IN DESIGN STRENGTH IN PARTNERSHIP STRENGTH IN COMMUNITY

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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	09-20-202
CONSTRUCTION DOCUMENTS	10-11-202



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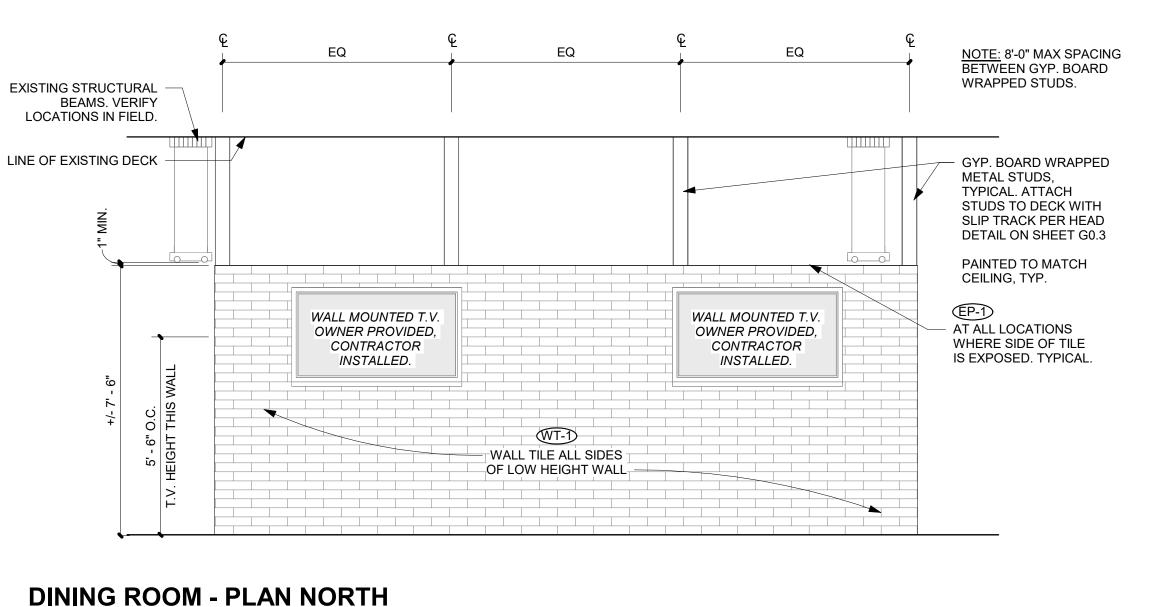
> **INTERIOR ELEVATIONS & DETAILS**

DRAWING NUMBER:

A9.1

NORTH SERVER AREA - NORTH ELEVATION

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



EQ EQ EQ NOTE: 8'-0" MAX SPACING BETWEEN GYP. BOARD EXISTING STRUCTURAL WRAPPED STUDS. BEAMS. VERIFY LOCATIONS IN FIELD. LINE OF EXISTING DECK GYP. BOARD WRAPPED METAL STUDS, TYPICAL. ATTACH STUDS TO DECK WITH SLIP TRACK PER HEAD DETAIL ON SHEET G0.3 PAINTED TO MATCH CEILING, TYP. EP-1 AT ALL LOCATIONS WHERE SIDE OF TILE IS EXPOSED. TYPICAL. WT-1 WALL TILE ALL SIDES OF LOW HEIGHT WALL

SUSPENSION CABLE
ATTACHMENTS TO DECK,
TYPICAL

WOOD SLAT PRIVACY
SCREENS, COORDINATE
WITH OWNER

SS-1
WALL CAP, RE: DETAIL

WT-1
WALL TILE ALL SIDES
OF LOW HEIGHT WALL

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

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

DINING ROOM - PLAN NORTH
DIVIDING WALL - EAST ELEVATION
SCALE: 3/8" = 1'-0"

DINING ROOM - PLAN NORTH
DIVIDING WALL - WEST ELEVATION

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

UNE OF EXISTING DECK
SUSPENSION CABLE
ATTACHMENTS TO DECK,
TYPICAL

WOOD SLAT PRIVACY
SCREENS, COORDINATE
WITH OWNER

WALL CAP, RE: DETAIL

PLASTIC LAMINATE FINISH ALL
SIDES OF LOW HEIGHT WALL

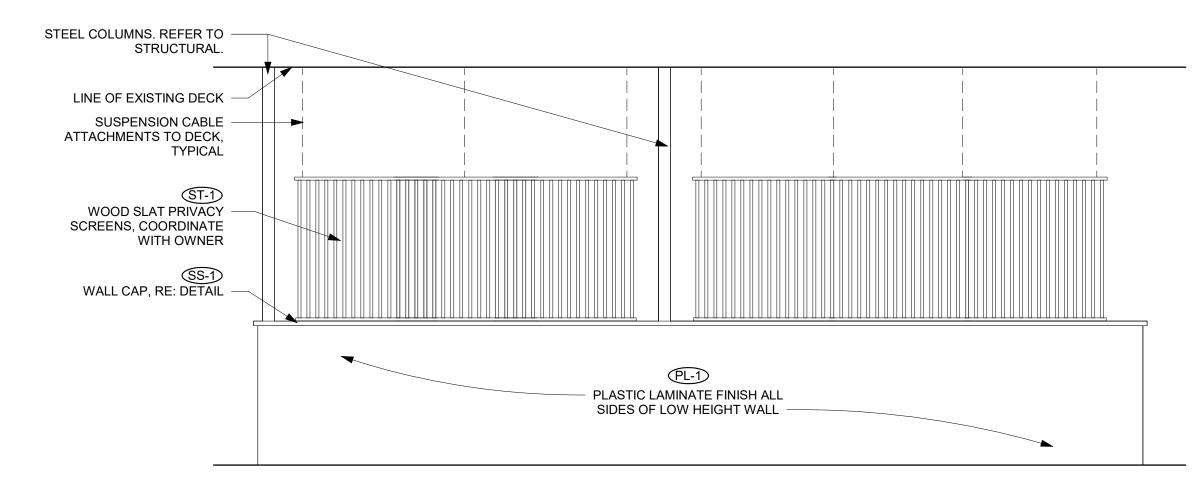
LINE OF EXISTING DECK

SUSPENSION CABLE
ATTACHMENTS TO DECK,
TYPICAL

WOOD SLAT PRIVACY
SCREENS, COORDINATE
WITH OWNER

WALL CAP, RE: DETAIL

PLASTIC LAMINATE
FINISH ALL SIDES OF
LOW HEIGHT WALL



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

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

DINING ROOM NORTH BOOTH
SURROUND - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"

DINING ROOM NORTH BOOTH
SURROUND - NORTH ELEVATION
SCALE: 3/8" = 1'-0"

LINE OF EXISTING DECK

SUSPENSION CABLE
ATTACHMENTS TO DECK,
TYPICAL

WOOD SLAT PRIVACY
SCREENS, COORDINATE
WITH OWNER

WALL CAP, RE: DETAIL

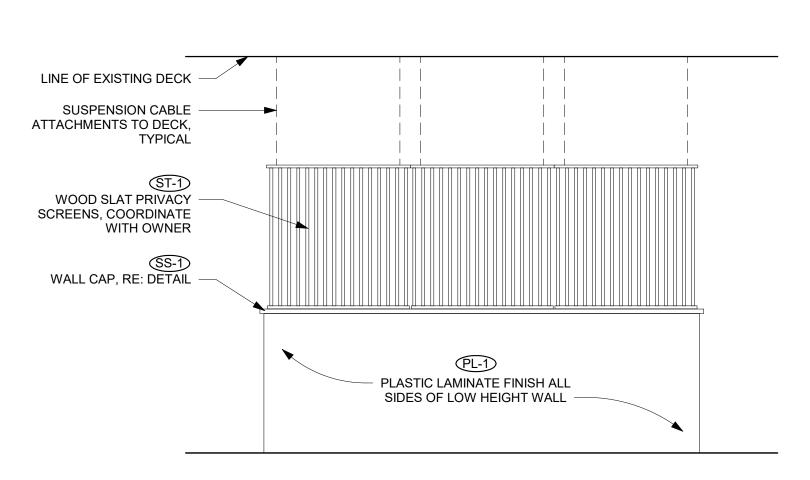
PLASTIC LAMINATE FINISH ALL
SIDES OF LOW HEIGHT WALL

SUSPENSION CABLE
ATTACHMENTS TO DECK,
TYPICAL

WOOD SLAT PRIVACY
SCREENS, COORDINATE
WITH OWNER

WALL CAP, RE: DETAIL

PLASTIC LAMINATE
FINISH ALL SIDES OF
LOW HEIGHT WALL



EXISTING BULKHEAD, RE: RCP

FULL HEIGHT WALL TILE AT FRONT AND SIDES, COORDINATE WITH OWNER

SOUTH DINING ROOM BOOTH
SURROUND - SOUTH ELEVATION

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

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

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

SOUTH DINING ROOM BOOTH
SURROUND - NORTH ELEVATION

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

DINING ROOM - WEST ELEVATION

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

BONCHON & BROWN DONKATSU

2024-53

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MECHANICAL ENGINEER: INTEGRATED MEP, LLC.

PLUMBING ENGINEER: INTEGRATED MEP, LLC.

ELECTRICAL ENGINEER:
APS, INC.

DESIGN DEVELOPMENT

SHEET ISSUANCES

DESCRIPTION
DESIGN DEVELOPMENT
CONSTRUCTION DOCUMENTS
DATE
10-11-2024

10.11.2024 ANDREW M. GOLDMAN 400785

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INTERIOR ELEVATIONS

DRAWING NUMBER:

A9.2

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION - BOLTING

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
VERTIFICATION AND INCIDENTIAL	00111110000	LINOBIO
1. INSPECTION TASKS PRIOR TO BOLTING:		
a. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		Х
b. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		х
c. CORRECT FASTNERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE EXCLUDED FROM SHEAR PLANE)		Х
d. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		Х
e. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	1	Х
f. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	X	
g. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENET COMPONENTS		Х
2. INSPECTION TASKS DURING BOLTING:		
a. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED		Х
b. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		Х
c. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATNG	-	Х
d. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		X
3. INSPECTION TASKS AFTER BOLTING:		
a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	Х	

- 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. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWSD1.1/D1.1M SHALL APPLY. FOR STRUCTURES IN RISK CATEGORY III/IV (ASCE 7 TABLE 1.5-1), ULTRASONIC TESTING SHALL BE
- PERFORMED ON ALL COMLETE-JOINT-PENETRATION GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16" (8 mm) THICK OR FOR STRUCTURES IN RISK CATEGORY I/II (ASCE 7 TABLE 1.5-1), ULTRASONIC TESTING SHALL BE
- PERFORMED ON 10% OF COMPLETE-JOINT-PENETRATION GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16" (8
- THÉRMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED USING MAGNETIC PARTICLE TESTING OR PENETRANT TESTING WHEN THE FLANGE THICKNESS EXCEEDS 2" (20 mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2" (50 mm) FOR BUILT-UP SHAPES. ANY CRACK
- SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION.
- ALL NON-DESTRUCTIVE TESTING OF WELDED JOINTS SHALL BE DOCUMENTED. SEE AISC 360-10 CHAPTER N FOR ADDITIONAL WELD INSPECTION REQUIREMENTS
- SEE AISC 360-10 CHAPTER N FOR ADDITIONAL BOLT INSPECTION REQUIREMENTS.
- INSPECTION SHALL OCCUR DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.
- FABRICATED STEEL AND ERECTED STEEL FRAMES, AS APPROPRIATE, SHALL BE INSPECTED FOR COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, INCLUDING BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER JOINT DETAIL APPLICATION.

PLACEMENT.

. INSPECT REINFORCEMENT AND VERIFY

a. VERIFY WELDABILITY OF REINFORCING

b. INSPECT SINGLE-PASS FILLET WELDS,

BARS OTHER THAN ASTM A706;

a. ADHESIVE ANCHORS INSTALLED IN

HORIZONTALLY OR UPWARDLY INCLINED

TENSION LOADS OR AT ANCHOR RODS FOR

BASES RESISTING CYCLIC TENSION LOADS.

b. MECHANICAL ANCHORS AND ADHESIVE

ORIENTATIONS TO RESIST SUSTAINED

LATERAL BRACE AND MOMENT FRAME

ANCHORS NOT DEFINED IN 4.a.

6. PRIOR TO CONCRETE PLACEMENT, FABRICATE

SPECIMENS FOR STRENGTH TESTS, PERFORM

SLUMP AND AIR CONTENT TESTS, AND DETERMINE

7. INSPECT CONCRETE PLACEMENT FOR PROPER

8. VERIFY MAINTENANCE OF SPECIFIED CURING

9. INSPECT FORMWORK FOR SHAPE, LOCATION

AND DIMENSIONS OF THE CONCRETE MEMBER

5. VERIFY USE OF REQUIRED DESIGN MIX.

THE TEMPERATURE OF CONCRETE.

TEMPERATURE AND TECHNIQUES.

APPLICATION TECHNIQUES.

BEING FORMED.

2.REINFORCING BAR WELDING:

MAXIMUM ⁵/₁₆"; AND

c. INSPECT ALL OTHER WELDS.

3. INSPECT ANCHORS CAST IN CONCRETE

4. INSPECT ANCHORS POST-INSTALLED IN

HARDENED CONCRETE MEMBERS.b

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

STRUCTURAL GENERAL NOTES

Larsen Structural Design Job Number: 2687

DESIGN CODE:

ABBREVIATIONS:

ARCHITECTURALLY EXPOSED

COLD FORMED METAL FRAMING

COMPLETE JOINT PENETRATION

CONCRETE MASONRY UNIT

STRUCTURAL STEEL

ARCHITECT (URAL) **BOTTOM OF ELEMENT**

BRICK LEDGE

CAST IN PLACE

CENTERLINE

CLEAR

DITTO

COLUMN

CONCRETE

DEAD LOAD

EXISTING

ELEVATION

FOOTING

FAR SIDE

GLULAM

GALVANIZED

HOLD DOWN

INSIDE FACE

LIVE LOAD

MAXIMUM

MINIMUM

NEAR SIDE

ON CENTER

OVERHANG

SIMILAR

SLOPED

SHEAR WALL

TOP OF ELEMENT

TOP AND BOTTOM

TOP OF FOOTING

TOP OF MASONRY

TOP OF STEEL

VERIFY IN FIELD

WELDED WIRE FABRIC

TOP OF WALL

TYPICAL

STANDARD a

ACI 318: CH. 20, 25.2,

25.3, 26.6.1-26.6.3

AWS D1.4

ACE 318: 26.6.4

ACI 318: 17.8.2

ACI 318: 17.8.2.4

ACI 318: 17.8.2

ACI 318: CH. 19,

26.4.3, 26.4.4

ASTM C 172

ASTM C 31

ACI 318: 26.5, 26.12

ACI 318: 26.5

ACI 318: 26.5.3-26.5.5

ACI 318: 26.11.1.2(b)

TOP OF CONCRETE

OUTSIDE FACE

OPPOSITE HAND

EDGE OF DECK

EDGE OF SLAB

DEFLECTION

EXPANSION JOINT

ENGINEER OF RECORD

HEADED ANCHOR STUDS

LONG LEG HORIZONTAL

LAMINATED VENEER LUMBER

ORIENTED STRAND BOARD

PRE-ENGINEERED METAL BLDG

PARTIAL JOINT PENETRATION

POUNDS PER SQUARE FOOT

UNLESS NOTED OTHERWISE

IBC REFERENCE

1904.1, 1904.2

PRESSURE TREATED

LONG LEG VERTICAL

KIP (1000 POUNDS)

CONTROL JOINT

AESS

CFMF

CIP

CJP

CL

CLR

CMU

COL

CONC

DEFL

DO

(E) EJ

ELEV

EOD

EOR

EOS

FTG

FS GALV

GL

ISF

LL

LLH

LLV

MAX

MIN

NS

OC OH

OH OSB

OSF

PJP

PSF PT SIM

TOC

TOF TOM TOS TOW

TYP

UNO

WWF

VIF

T / or TO

PEMB

LVL

HAS HD

ARCH('L)

B / or BO

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

DESIGN LOADS:

35 psf (used for drifting calculations) 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

Soils engineer shall verify soil conditions and types during excavation and prior to concrete placement.

Structural concrete shall have the following properties Exposure f'c, (psi) Maximum Maximum Entrained

Interior Slab- F0/S0/W0/C0 3,500 ¾" Stone N/A on-Grade Concrete mix designs shall be submitted to the engineer of record no less than 15 working days prior to the

Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the "Guide to Presenting Reinforcing Steel Design Details (ACI 315R-18). Welded wire fabric shall conform to ASTM A185. Splice welded-wire fabric by lapping one full mesh space plus 2".

Reinforcing bars shall conform to ASTM A615, Grade 60, reinforcement to be welded shall be ASTM 706 grade 60

Splice reinforcing 54 bar diameters minimum.

bars terminating at a concrete face unless noted otherwise on plan. Around openings in walls and slabs, provide 2-#5, extending 2'-0 beyond edge of opening.

Except as noted on the drawings, concrete protection for reinforcement in cast-in-place concrete shall be as follows: a. Cast against and permanently exposed to earth b. Exposed to earth or weather:

1-1/2" #5 bar, W31 or D31 wire, and smaller c. Not exposed to weather or in contact with ground: Slabs, walls, joists: #11 bar and smaller

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.

- A minimum of one sample from each days pour of each mix of concrete
- 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, than samples shall be obtained from five randomly selected batches or from each batch if fewer than five batches are used.
- more test results are provided showing satisfactory performance of the approved mix design.

POST-INSTALLED ANCHORS AND REBAR NOTES:

- manufacturer's on-site training All post-installed anchors shall meet ICC-ES Compliance for each type of application.
- Concrete must be at least 21 days old before installation of anchors.
- All anchor designs are for installation in the following conditions, unless noted otherwise. Written approval must be received from EOR prior to installation of anchors in alternate conditions. Concrete or masonry conditions shall be dry.
 - Anchor holes shall be cleaned per manufacturer's printed installation instructions prior to adhesive
- All post-installed anchors in concrete shall be suited for use in cracked concrete applications.
- else installed in an interior or protected environment.
- Simpson Set-XP or Simpson AT-XP, or approved equal.
- anchor shall be grouted solid.
- Simpson SET-XP or Simpson AT-XP with matching Simpson screens, or approved equal.
- anchor and one course above and below the anchor shall be grouted solid. When doweling continuously deformed rebar into concrete, Hilti RE-500v3 or Simpson SET-3G, Simpson
- Anchor Capacity used in design shall be based on the technical data published by manufacturer or such other method as approved by the EOR. Substitution request for alternate products must be approved in writing by the EOR prior to use. Contractor shall provide calculations demonstrating that the substituted product is capable of achieving the same performance values of the specified product. Substitutions will be evaluated by their having and ICC ESR showing compliance with the relevant building code for seismic uses, load resistance, installation

of Steel Construction (AISC).

Other rolled shapes, including plates, channels, and angles shall conform to ASTM A36.

Pipe shapes shall conform to ASTM A53 Grade B.

Except as noted, framed beam connections shall be bearing-type with 3/4" diameter, snug tight, A325-N bolts, detailed in conformance with the Structural Drawings and the "Steel Construction Manual" by AISC, 15th Edition. Install bolts in accordance with AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts", 2004.

Anchor rods shall conform to ASTM F1554, Grade 36 (or high strength Gr 55 or Gr 105 as noted), with weldability

Headed anchor studs (HAS) shall be attached to structural steel with equipment approved by the stud manufacturer according to the stud manufacturer's recommendations. Welding shall be done by a certified welder in accordance with AISC and AWS specifications and recommendations using E70- electrodes. Where not specifically noted, minimum weld shall be 3/16" fillet by length of contact edge. Grout beneath column base and beam-bearing plates shall be minimum 28-day compressive strength of 7,500 psi,

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

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

PERIODIC

CONTINUOUS

TABLE RECREATED FROM IBC 2021 TABLE 1705.3

Project: Bonchon & Brown

Ground Snow: Flat Roof Snow:

Snow Thermal Factor: Ct ASCE 7-16 Table 7.3-2 1.0

Design of footings is based on a maximum allowable bearing pressure of:

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).

Cement

Category Air (±1.5%) Foundations F0/S0/W0/C1 3,500 1" Stone

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. No concrete admixture containing calcium chloride shall be permitted in any concrete.

reinforcing.

At corners and intersections, make horizontal bars continuous or provide matching corner bars. Provide standard hooks on

#6 through #18 bars

Anchor bolts and rods for beam and column-bearing plates shall be placed with setting templates

- Frequency of concrete testing shall be as follows:
- A minimum of one sample for each 150 cubic yards of concrete for each mix placed each day.
- If fewer than 25 cubic yards total of a mix are to be installed, then no concrete testing is required provided 30 or

Drill and install post-installed anchors according to manufacturer's printed installation instructions and per

- Anchor capacities are dependent upon spacing between anchors and proximity to edges of concrete or masonry. Installations shall be in accordance with minimum or maximum dimensions shown on structural plans. Deviations from these dimensions due to field conditions shall be verified by an RFI or other means prior to installing anchors. Unless otherwise noted on the plans, product information and ICC-ES Evaluation Reports must be submitted for
- - Concrete or masonry temperature at time of installation for adhesive anchors must be between manufacturer's published minimum and maximum temperature range. During winter temperatures, certain adhesives will not be permissible and increased cure times may not meet the construction schedule. General contractor shall reference manufacturer's printed installation instructions for permissible temperature range and cure times.
 - Anchor holes shall be hammer drilled. injection or installation of anchor.
 - The contractor shall arrange an anchor manufacturer's representative to provide onsite installation training and shall be certified in accordance with ACI/CRSI Adhesive Anchor Installer certification program, or equivalent. Submit certificates of the personnel who will be installing the anchors to the EOR.
- Post-installed anchors shall be stainless steel when exposed to exterior conditions or corrosive environments or
- Unless otherwise noted on plans, anchors shall be the following types: Adhesive anchors in cracked concrete shall be Hilti HIT HY-200V3 Safe-Set, or Simpson SET-3G,
- Adhesive anchors in uncracked solid grouted CMU at the anchor shall be Hilti HIT HY-270, or Simpson SET-XP or Simpson AT-XP, or approved equal. Cells at the anchor and one course above and below the
- Adhesive anchors in masonry and hollow CMU shall be Hilti HIT HY-270 with matching Hilti screens or
- Mechanical anchors in concrete shall be Hilti Kwik HUS EZ, or Simpson Titen-HD, or approved equal. Mechanical anchors in grouted solid CMU shall be Hilti Kwik HUS EZ, or Simpson Titen-HD. Cells at the
- Set-XP or Simpson AT-XP.
- category, and availability of comprehensive installation instructions. Adhesive anchor evaluation will also consider creep, in-service temperature and installation temperature.

STRUCTURAL STEEL:

consistency of 20 to 30 seconds.

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

Structural steel wide flange beams shall conform to ASTM A992. Hollow structural section (HSS) tube shapes shall conform to ASTM A500, Grade B, 46 ksi yield.

All beams shall have full depth web stiffeners each side of webs above and below columns

approved non-metallic, non-shrink, when tested in accordance with ASTM C1107 Grade B or C at a flow cone fluid

STRUCTURAL WOOD FRAMING:

In-Grade Base Values have been used for design. 2x framing shall be Hem-Fir S4S No. 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

Plywood and oriented strand board (OSB) floor and roof sheathing shall be APA graded with panel identification index, thickness, and nailing as noted on the drawings.

All roof rafters, joists, trusses, beams shall be anchored to supports with metal framing anchors. Light gage framing anchors shown or required, shall be Simpson "Strong Tie" or equal Code approved connectors and installed with the number and type of nails recommended by the manufacturer to develop the rated capacity. Note that heavy-duty hangers and skewed hangers may not be stocked locally and require special order from

All beams and trusses shall be braced against rotation at points of bearing.

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

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

The General Contractor and his subcontractors shall submit in writing any requests to modify the plans or specifications. All shop and erection drawings shall be checked and stamped by the General Contractor prior to submission for Engineer's review.

- Furnish one (1) electronic copy of shop and erection drawings to the Structural Engineer for review prior to fabrication for: Concrete Mix Designs
- Reinforcing Steel in Concrete Structural Steel

Unchecked submittals will be returned without review.

Engineered Lumber

Submit in a timely manner to permit ten (10)working days for review. Shop drawings submitted for review do not constitute "request for change in writing" unless specific suggested changes are clearly marked. In any event, such changes by means of the shop drawing submittal process become the responsibility of the one initiating such change.

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. The Contractor shall notify the engineer about all such requirements in writing before the start of construction. One-week advance notice shall be given when requesting site visits necessary as the basis for the compliance letter.

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. Notify 48 hours prior to required review.

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

* Steel: Periodic and continuous inspections of steel frame joint details. Refer to Section 1705.2 and Table 1705.2.2 of the I.B.C, and Tables N5.4-1 thru N5.4-3 and N5.6-1 thru N5.6-3 of the AISC 360-16.

Approved agencies shall provide written documentation to the building official demonstrating the competence and relevant experience or training of the special inspectors who will perform the special inspections and testing prior to and during construction as required per IBC 2021 Section 1704.2.1.

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:

resolution

way include inspection of them.

Contractor shall thoroughly inspect and survey existing structure to verify conditions that affect the work shown on the

Contractor shall report any variations or discrepancies to the Architect before proceeding.

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

Contract documents have been prepared using limited site observations.

Documents, examples include: sizes or dimensions other than those shown.

damage or deterioration to materials or components. conditions of instability or lack of support.

Contractor shall make allowance for the resolution of such discoveries in the construction schedule.

items noted as existing on the drawings but not found in the field include, but are not limited to: Contractor shall prepare dimensional drawings of all discovered items. Contractor shall field verify all existing structural conditions prior to submitting shop drawings.

STRUCTURAL ERECTION AND BRACING REQUIREMENTS: The structural drawings illustrate the completed structure with elements in their final positions, properly supported and These construction documents contain typical and representative details to assist the contractor.

Details shown apply at 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. All proprietary connections shall be installed in accordance with the manufacturers' recommendations.

All work shall be accomplished in a workmanlike manner and in accordance with the applicable code and local

The general contractor is responsible for coordination of all work, including layout and dimension verification, materials coordination, shop drawing review, and the work of subcontractors. Any discrepancies or omissions discovered in the course of the work shall be immediately reported to the architect for

Continuation of work without notification of discrepancies relieves the architect and engineer from all consequences. Unless otherwise specifically indicated, the drawings do not describe methods of construction. The contractor, in the proper sequence, shall perform or supervise all work necessary to achieve the final completed structure, and to protect the structure, workmen, and others during construction. Such work shall include, but not be limited to, bracing, shoring for construction equipment, shoring for excavation,

formwork, scaffolding, safety devices and programs of all kinds, support and bracing for cranes and other erection Do not backfill against basement or retaining walls until supporting slabs and floor framing are in place and securely

anchored, unless adequate bracing is provided. Temporary bracing shall remain in place until all floors, walls, roofs and any other supporting elements are in place. The architect and engineer bear no responsibility for the above items, and observation visits to the site do not in any ROJECT NUMBER: 2687

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.

INTEGRATED MECHANICAL, LLC. ELECTRICAL ENGINEER: APS, INC.

PLUMBING ENGINEER:

CONSTRUCTION DOCUMENTS

10/11/2024

SHEET ISSUANCES DATE DESCRIPTION

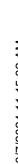
CONSTRUCTION DOCUMENTS

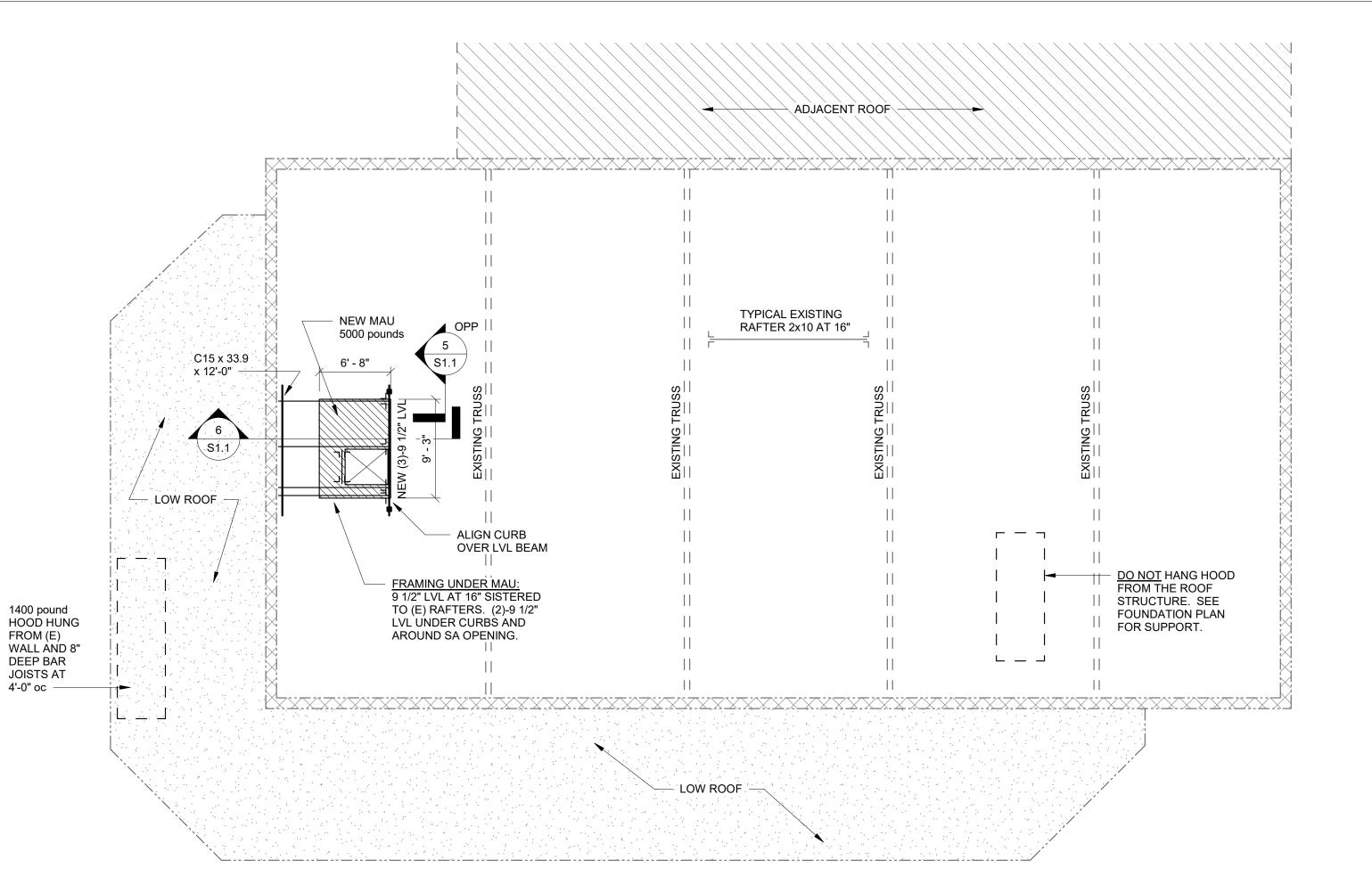


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GENERAL NOTES AND SPECIAL

DRAWING NUMBER:







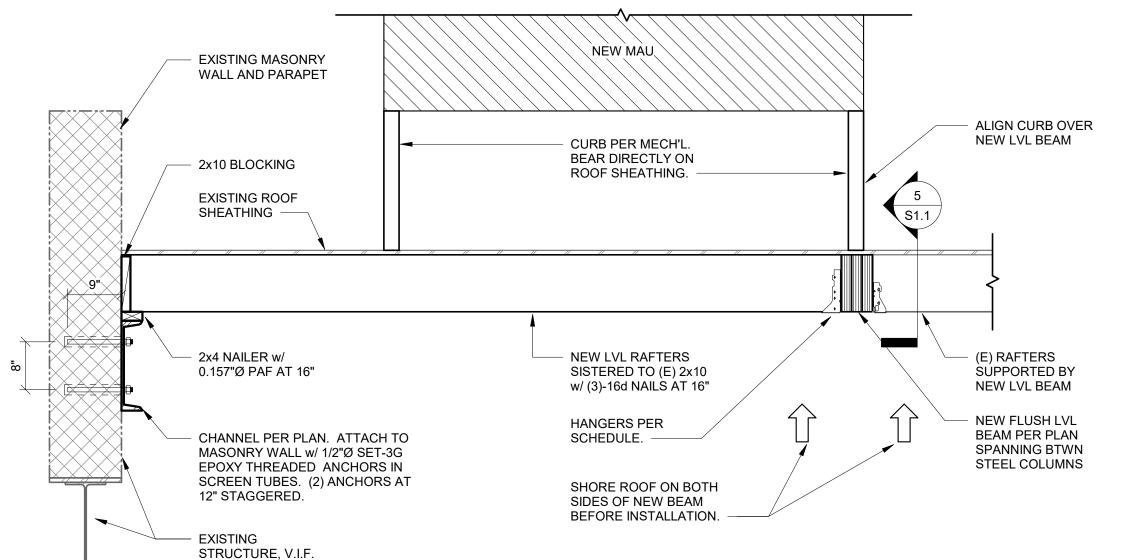
ROOF FRAMING PLAN

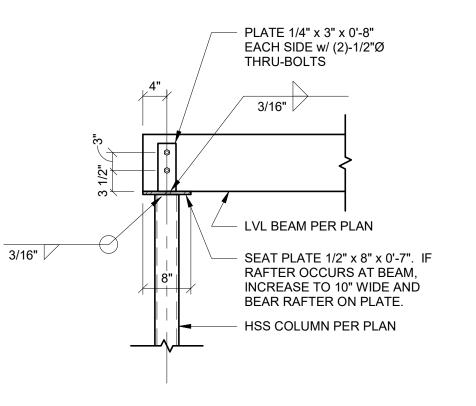
JOIST/BEAM HANGER SCHEDULE			
JOIST/BEAM	SIMPSON HANGER		
SIZE	TOP FLANGE	FACE MOUNT	
(E) 2x10		LU28	
9 1/2" LVL		HU9 MIN	
(2) - 9 1/2" LVL		U410	
NEW LVL + (E) RAFTER		U410 w/ SHIM	

NOTES:

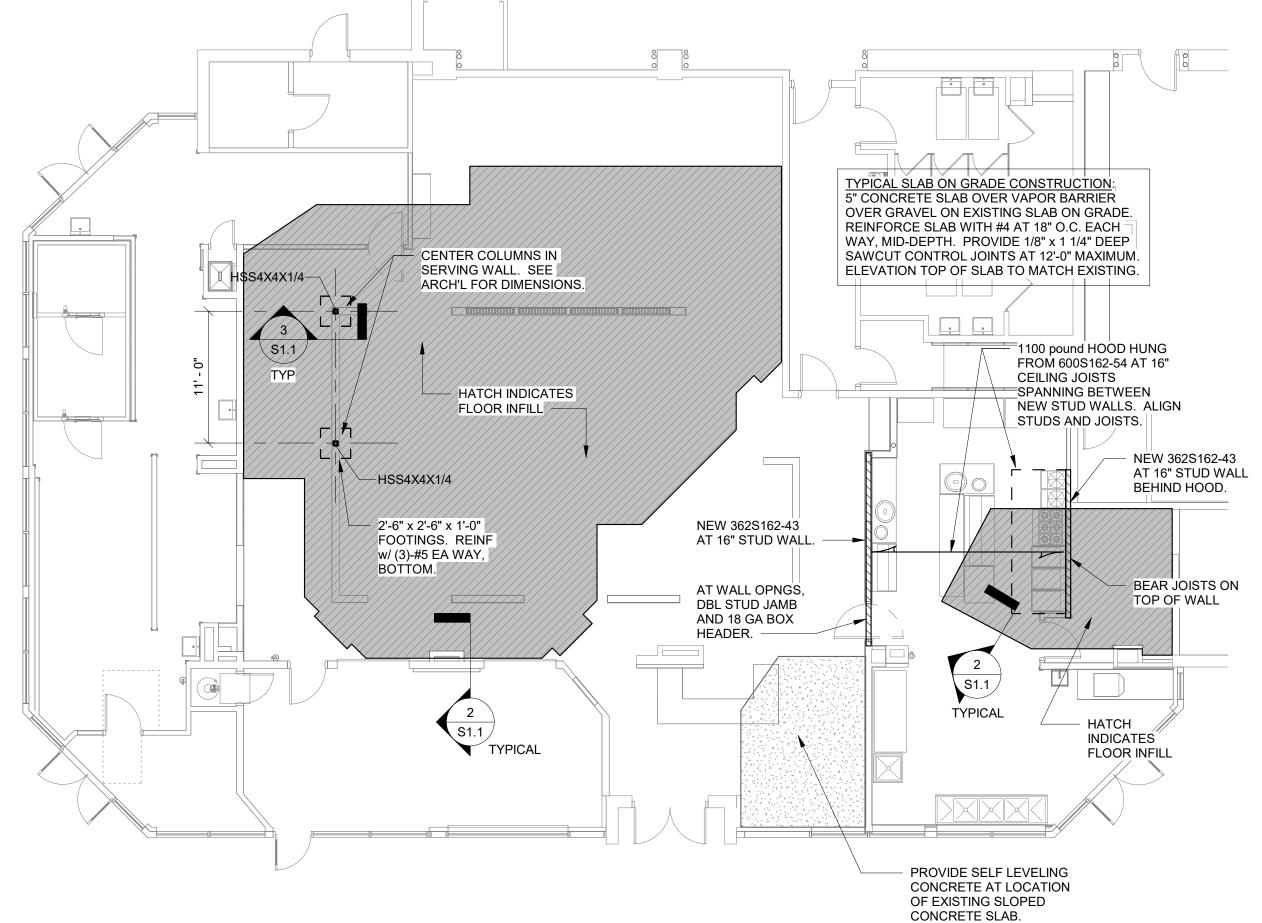
PROVIDE MAXIMUM NUMBER OF FASTENERS FOR HANGER AS SPECIFIED BY MANUFACTURER
 PROVIDE HANGER IN SCHEDULE U.N.O. ON PLAN
 IF A BEAM OR JOIST REQUIRES A HANGER THAT HAS NOT BEEN SHOWN IN THE SCHEDULE, CONTACT STRUCTURAL ENGINEER WITH PREFERRED HANGER

FOR VERIFICATION



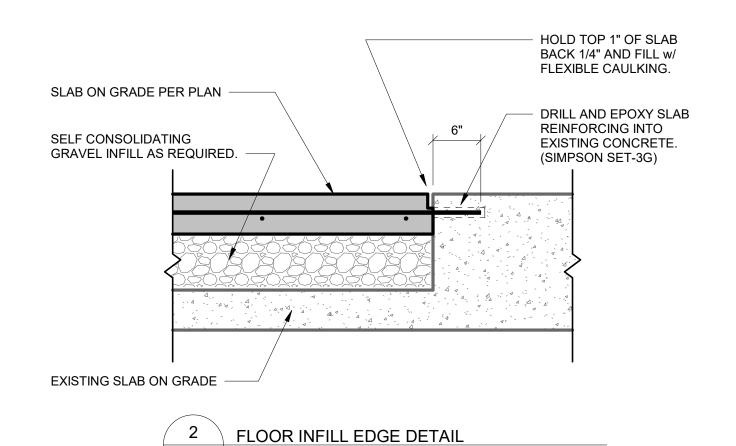


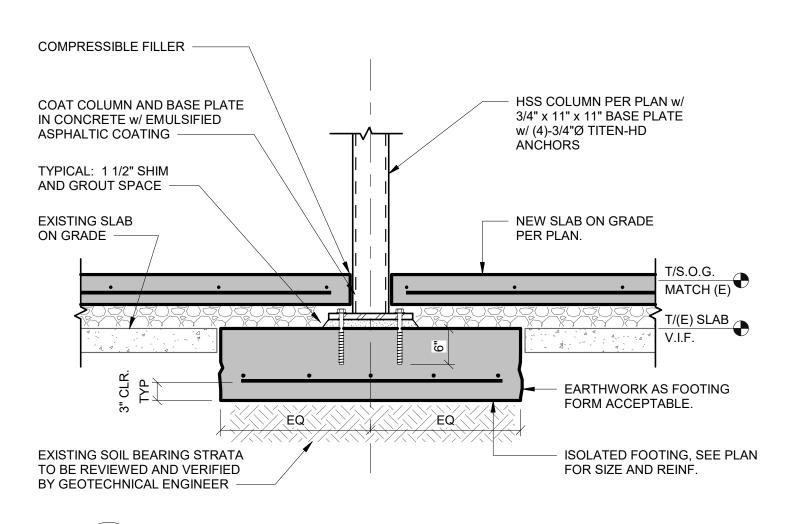
5 COLUMN TO BEAM CONNECTION
3/4" = 1'-0"





S1.1 1" = 1'-0"





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

DONGHON 8

PROJECT NUMBER:

BONCHON & BROWN DONKATSU

2687

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

PROJECT TEAM

STRENGTH IN COMMUNITY

STRUCTURAL ENGINEER:
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:
INTEGRATED MECHANICAL, LLC.

PLUMBING ENGINEER:
INTEGRATED MECHANICAL, LLC.

CONSTRUCTION DOCUMENTS

DESCRIPTION DATE

CONSTRUCTION DOCUMENTS 10/11/2024



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FOUNDATION, MAIN LEVEL, AND ROOF FRAMING PLANS AND DETAILS

DRAWING NUMBER:

S_{1.1}



GENERAL MECHANICAL REQUIREMENTS:

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.

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

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 ARRIVING 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.

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.

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.

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.

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

PROTECTION OF MATERIALS AND EQUIPMENT

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL WORK, MATERALS, 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.

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 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 MECHANICAL NOTES

- THE MECHANICAL DESIGN IS BASED ON THE 2021 INTERNATIONAL MECHANICAL CODE. MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND LOCAL CODE AMENDMENTS. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
- WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, COMPLY WITH ALL APPLICABLE CODES. ALL MATERIALS WITHIN THE CEILING PLENUM SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
- ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL - CONSTRUCTION AND INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF SMACNA OR AS REQUIRED BY ALL APPLICABLE
- DIMENSIONS OF DUCTWORK SHOWN INDICATES CLEAR INSIDE DIMENSIONS - WHERE DUCT LINER IS TO BE ADDED, INCREASE THE SIZE OF SHEET METAL ACCORDINGLY.
- UNLESS NOTED OTHERWISE, THE SIZE OF THE BRANCH DUCT SERVING A SINGLE DIFFUSER SHALL BE THE SAME AS THE NECK SIZE OF THE DIFFUSER SERVED. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. FLEXIBLE DUCTWORK SHALL BE UL181 LISTED WITH 50/25 SMOKE/FLAME RATING, CONSISTING OF POLYESTER FILM ENCAPSULATING AN INNER CORROSION RESISTANT STEEL WIRE HELIX CORE. FLEXIBLE DUCT SHALL INCLUDE AN EXTERIOR FIBERGLASS INSULATION WITH FOIL SCRIM FILM VAPOR BARRIER JACKET, R-6.
- PLENUM WRAP: PIPING SYSTEMS LOCATED WITHIN A RETURN PLENUM SPACE IN WHICH THE PIPING MATERIAL HAS A FLAME SPREAD INDEX GREATER THAN 25 OR A SMOKE DEVELOPED INDEX OF MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 SHALL BE PROVIDED WITH PLENUM WRAP LISTED AND LABELED FOR SUCH APPLICATION. PROVIDE BLANKET WRAP INSULATION WITH A NOMINAL THICKNESS OF 0.5" WITH A DENSITY OF 4-POUNDS PER CUBIC FOOT. BLANKET WRAP SHALL BE FULLY ENCAPSULATED WITH A POLY-ALUMINUM FOIL, FIBERGLASS REINFORCED SCRIM COVERING AND BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. 3M FIRE BARRIER PLENUM WRAP 5A OR APPROVED. CONSTRUCT ALL CONSTANT VOLUME SUPPLY DUCTWORK TO SMACNA
- 2" PRESSURE CLASS.
- CONSTRUCT ALL RETURN DUCTWORK TO SMACNA 2" PRESSURE CLASS. CONSTRUCT ALL EXHAUST DUCTWORK TO SMACNA 1" PRESSURE
- MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR
- INTAKES TO EXHAUST TERMINATIONS AND PLUMBING VENTS.
- MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
- 12 WALL MOUNTED THERMOSTATS AND SENSORS SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. THERMOSTATS AND SENSORS LOCATED ON EXTERIOR WALL SURFACES SHALL BE PROVIDED WITH AN INSULATED SUB-BASE.
- THERMOSTATS FOR COOLING AND HEATING EQUIPMENT SHALL BE 7-DAY PROGRAMMABLE TYPE, 4 PERIODS PER DAY, 10-HOUR BATTERY BACK-UP, 2-HOUR OVERRIDE, 5 DEG DEAD-BAND, HEAT/COOL/OFF/AUTO CHANGEOVER, AUTO SETBACK TO 55 DEG F (HEAT) AND 85 DEG F (COOL), LCD BACKLIT DISPLAY, HARD WIRED POWER, HARD WIRED CONTROL.
- TEMPORARY HEATING: THE PERMANENT HVAC SYSTEM MAY NOT BE UTILIZED FOR HEATING UNTIL ALL GYPSUM WORK IS COMPLETED AND HAS BEEN PAINTED. IF THE PERMANENT HVAC SYSTEM IS UTILIZED DURING CONSTRUCTION, ALL DUCT INTAKES SHALL BE COVERED WITH FILTER MEDIA (MERV-8 RATING). IF EXCESSIVE DUST OR DEBRIS HAS ENTERED THE SYSTEM THEN ALL COIL AND DUCT SURFACES SHALL BE CLEANED. NEW FILTERS ARE TO BE PROVIDED JUST PRIOR TO TURNOVER TO OWNER. TEMPORARY HEATING OF THE BUILDING PRIOR TO ANY USE OF THE PERMANENT HVAC SYSTEM SHALL BE THE RESPONSIBILITY OF THE G.C.
- 15 DISHWASHER HOOD EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM AND SEALED WATERTIGHT WITH SILICONE SEALANT.
- 16 GREASE DUCTWORK (RECTANGULAR): DUCTWORK SHALL BE CONSTRUCTED OF STEEL OF NOT LESS THAN 16 GAUGE. JOINTS, SEAMS AND PENETRATIONS SHALL BE MADE WITH A CONTINUOUS LIQUID-TIGHT WELD OR BRAZE MADE ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM. JOINTS, DUCT SLOPING AND CLEANOUTS SHALL BE IN ACCORDANCE WITH THE MECHANICAL CODE. PRIOR TO CONCEALMENT OF DUCT, A LEAKAGE TEST SHALL BE PERFORMED IN THE PRESENCE OF A CODE OFFICIAL.
- 17 RECTANGULAR GREASE DUCTWORK INSULATION: PROVIDE TWO LAYERS OF BLANKET WRAP INSULATION WITH A MINIMUM NOMINAL THICKNESS OF 1.5" EACH, COMPOSED OF MINERAL WOOL FIBERS AND FIBERGLASS WITH A DENSITY OF 1.4 POUNDS PER SQUARE FOOT. BLANKET WRAP SHALL BE FULLY ENCAPSULATED WITH A POLYPROPYLENE/FOIL SCRIM. SYSTEM AND INSTALLATION SHALL COMPLY WITH REQUIREMENTS OF ASTM E 2336, LOCAL BUILDING CODES AND AUTHORITY HAVING JURISDICTION. 3M FIRE BARRIER DUCT WRAP 15A OR APPROVED.
- 18 HANGING, ANCHORING AND SUPPORT OF EQUIPMENT, DUCTS, PIPING AND ACCESSORIES IS DESIGN BUILD BY THE MC. THE SUPPORTS SHALL MEET CODE.
- ALWAYS INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 20 REFRIGERATION PIPING FOR SYSTEMS 5 TONS AND LESS SHALL BE KIT TYPE. THE KIT SHALL BE SIZED AND PROVIDED BY THE EQUIPMENT SUPPLIER AND INSTALLED BY THE MC. THE SUCTION LINE SHALL BE INSULATED WITH MINIMUM 1 INCH CLOSED CELL FOAM INSULATION. INSULATION INSTALLED OUTSIDE OF THE BUILDING SHALL BE ADDITIONALLY ENCASED IN A UV/TEAR PROTECTIVE SLEEVE.
- TEMPERATURE CONTROLS SHALL BE DESIGN BUILD, CUSTOM, FIELD FABRICATED TO MATCH CORRESPONDING EQUIPMENT. THE SYSTEM SHALL UTILIZE STAND ALONE ELECTRONIC COMPONENTS. THE CONTRACTOR SHALL PROPERLY SELECT, PROVIDE AND INSTALL SYSTEM(S) INCLUDING ALL COMPONENTS NECESSARY FOR A FULL AND COMPLETE, OPERATIONAL SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO: LOW VOLTAGE WIRING, THERMOSTATS, DAMPER MOTORS, SOLENOIDS, RELAYS, CONTACTORS, STARTERS, TIME CLOCKS, CONTROL PANELS, SYSTEM COMMISSIONING AND OWNER TRAINING. ALL LINE VOLTAGE INTERFACING SHALL BE COORDINATED DIRECTLY WITH THE ELECTRICAL CONTRACTOR. PROVIDE SUBMITTALS ON COMPONENTS AND WIRING DIAGRAMS PRIOR TO ORDERING

INSULATION NOTES AND MECHANICAL ENERGY CODE

THE MECHANICAL DESIGN IS BASED ON THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE.

HVAC LEGEND:

RECT DUCT SIZE CHANGE

ROUND ELBOW UP

ROUND ELBOW

DIFFUSER WITH FLEX DUCT

AIRFLOW PATTERNS

FIRE DAMPER TAG

RETURN GRILLE (UNDUCTED)

THERMOSTAT WITH ZONE TAG

CEILING RADIATION DAMPER TAG

DUCT WITH VOLUME DAMPER

DEMOLISHED DUCTWORK

MECHANICAL DRAWING INDEX

HO.1 HVAC NOTES, LEGEND, INDEX

H1.1 HVAC DEMO FLOOR PLAN

H2.1 HVAC FLOOR PLAN

H2.2 HVAC ROOF PLAN

H8.1 | HVAC SCHEDULES

H8.2 HVAC SCHEDULES

H8.3 | HVAC SCHEDULES

H8.4 HVAC SCHEDULES

H8.5 | HVAC SCHEDULES

H8.6 HVAC SCHEDULES

H8.7 HVAC SCHEDULES

H8.8 HVAC SCHEDULES

H8.9 | HVAC SCHEDULES

H8.10 HVAC SCHEDULES H8.11 HVAC SCHEDULES

H7.1 HVAC DETAILS

SHEET

NUMBER SHEET NAME

DUCT WITH MOTORIZED DAMPER

FIRE/SMOKE DAMPER WITH DUCT DETECTOR

SMOKE DAMPER WITH DUCT DETECTOR

DUCT WITH COUNTERBALANCED DAMPER

SENSOR WITH ZONE TAG

CARBON DIOXIDE SENSOR

RETURN/EXHAUST GRILLE (DUCTED)

RECT ELBOW W/ TURNING VANES

ROUND ELBOW DOWN

RECT DUCT CHANGE TO ROUND

RECT ELBOW UP (SUPPLY)

RECT ELBOW UP (NON-SUPPLY)

RECT ELBOW DOWN (SUPPLY)

RECT ELBOW DOWN (NON-SUPPLY)

ALL SUPPLY. RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT ALONG ALL SEAMS AND

RECT DUCT (NEW SHADED/EXISTING UNSHADED)

ROUND DUCT (NEW SHADED/EXISTING UNSHADED)

ROUND TAKE-OFF W/ DAMPER FROM RECT MAIN

RECT TAKE-OFF W/ DAMPER FROM RECT MAIN

RECT TAKE-OFF W/ DAMPER FROM ROUND MAIN

ROUND TAKE-OFF W/ DAMPER FROM ROUND MAIN

SEE HVAC INSULATION SCHEDULE FOR DUCT INSULATION REQUIREMENTS.

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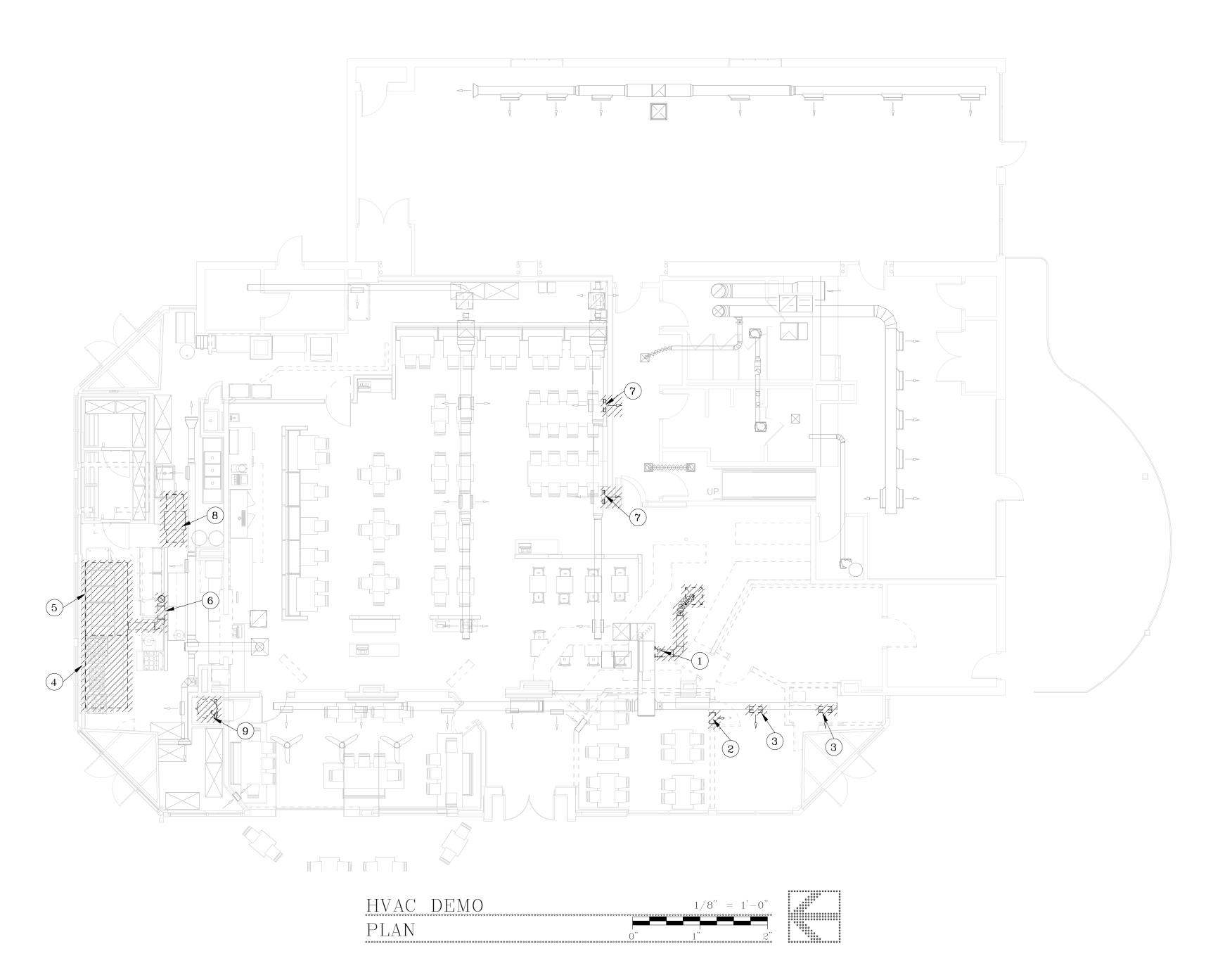


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HVAC NOTES, LEGEND, INDEX

DRAWING NUMBER:



FLAG NOTES:

1 DEMO DUCTWORK AS SHOWN. SEAL DUCT MAIN AIRTIGHT.

2 DEMO TRANSFER GRILLE(S). 3 DEMO SUPPLY DIFFUSER. SEAL REMAINING DUCT AIRTIGHT.

DEMO EXISTING GREASE HOOD.

5 DEMO EXISTING HEAT HOOD. DEMO EXISTING HEAT HOOD EXHAUST DUCTWORK.

7 REMOVE (E) SUPPLY DIFFUSER. SEAL REMAINING DUCT AIRTIGHT. DIFFUSER TO BE RELOCATED. SEE SHEET H2.1.

DEMO EXISTING MAKE-UP AIR AND AIR INTAKE THRU ROOF.

9 DEMO EXISTING WATER HEATER AND FLUE THRU ROOF.

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HVAC DEMO FLOOR PLAN

H1.1

FLAG NOTES:

- 1 PROVIDE AND INSTALL NEW GREASE HOOD. 2 RUN 6" EXHAUST DUCT FROM FAN THROUGH ROOF TO
- ROOFCAP.

 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.

PRO

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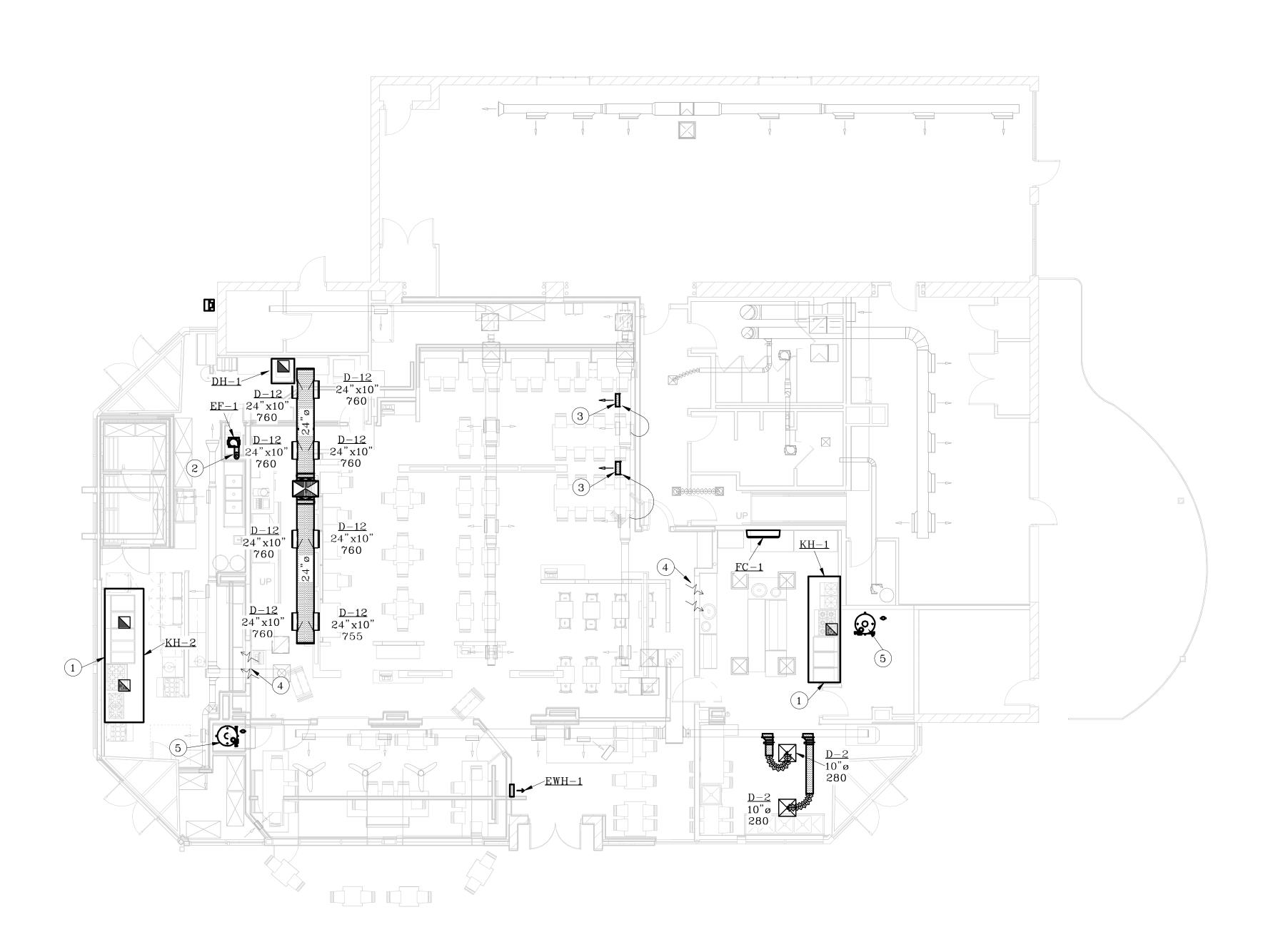


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HVAC FLOOR PLAN

H2.1



HVAC FLOOR
PLAN

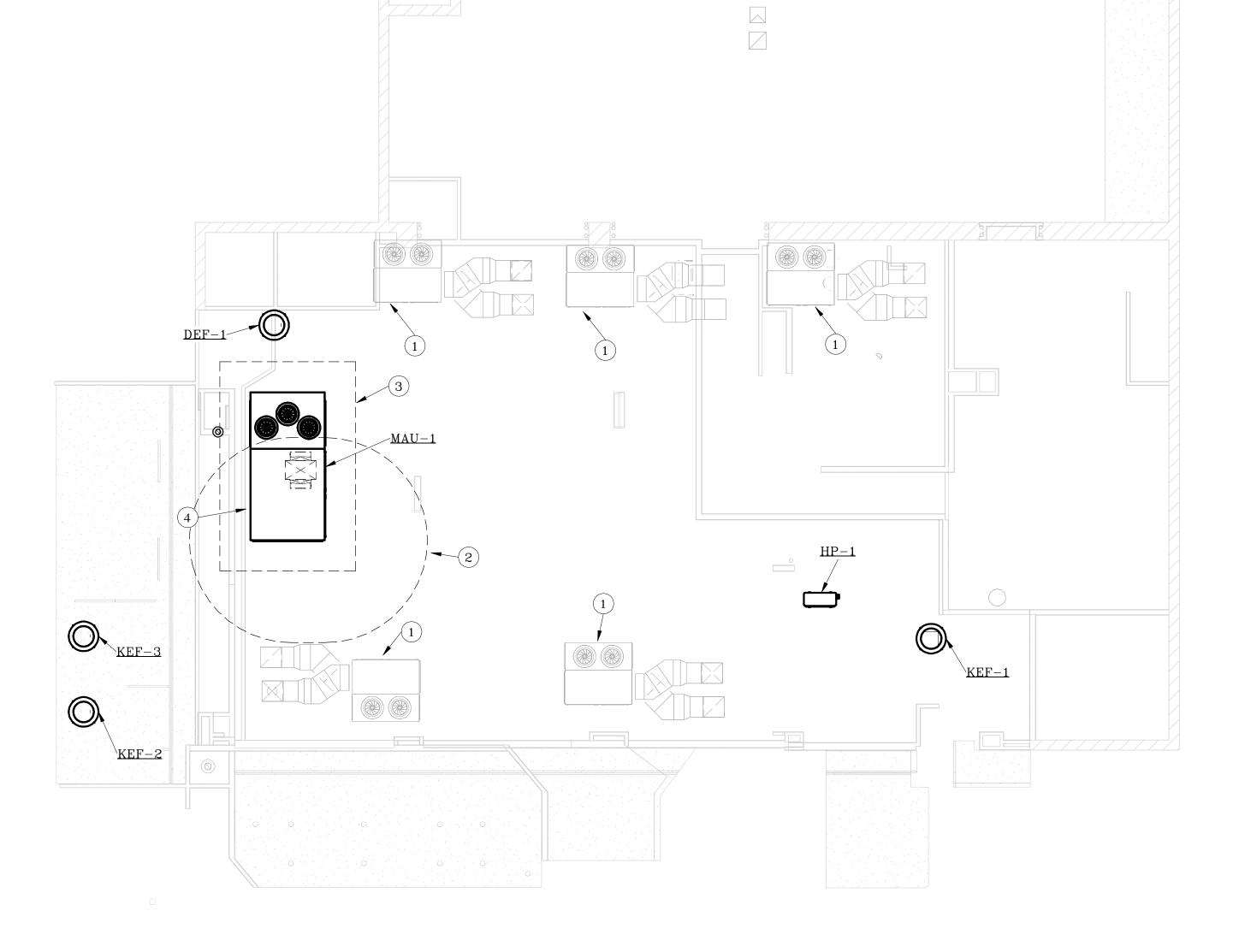
1/8" = 1'-0"

"""

1/8" = 1'-0"

"""

1/8" = 1'-0"



HVAC ROOF PLAN

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.
- INSTALL MAU ON 20" HIGH CURB TO CLEAR EXISTING PARAPET.

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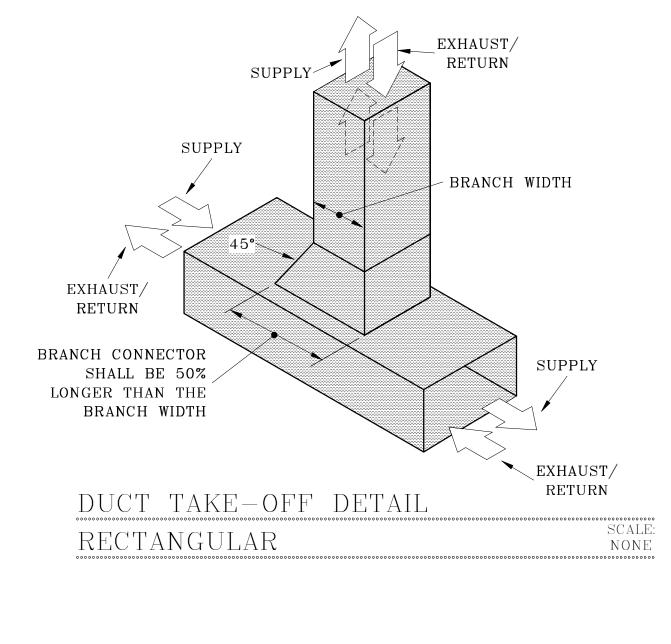
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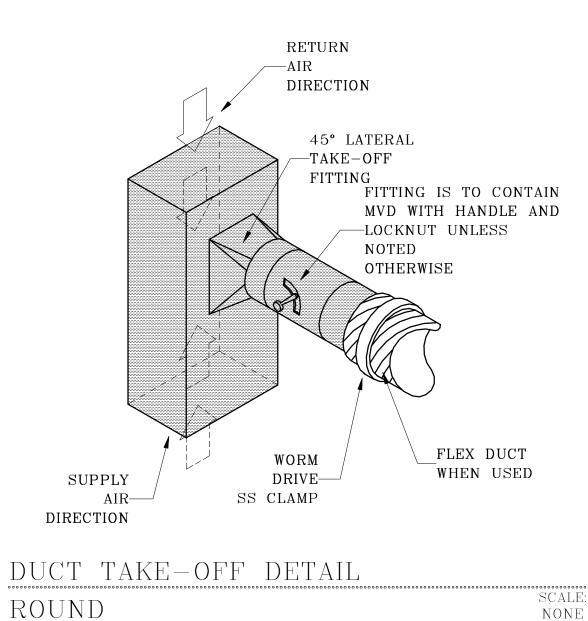


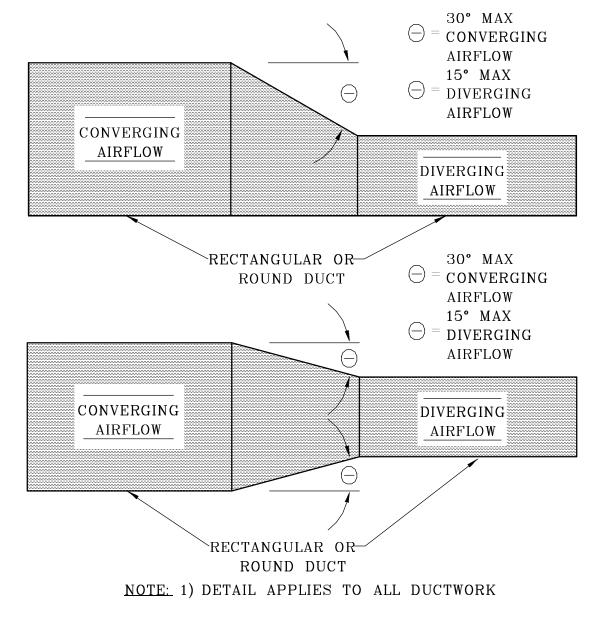
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HVAC ROOF PLAN

H2.2

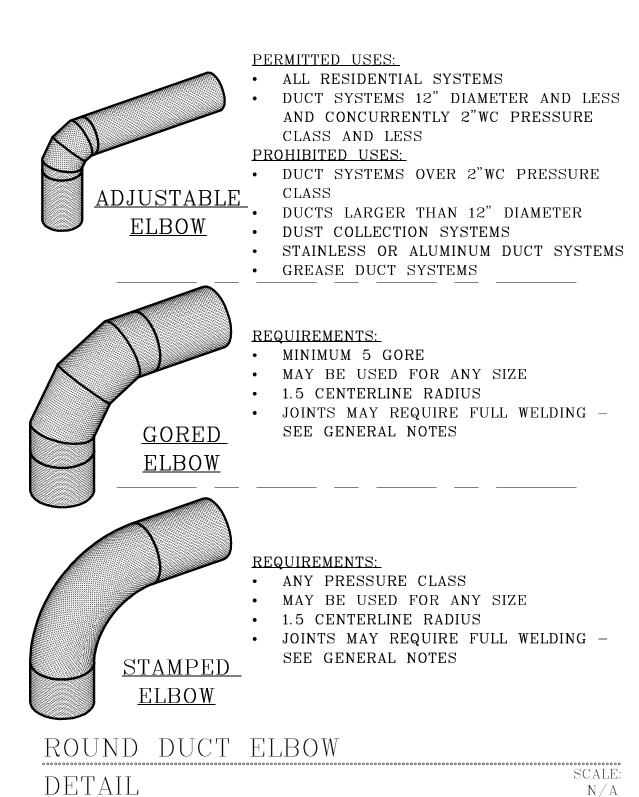


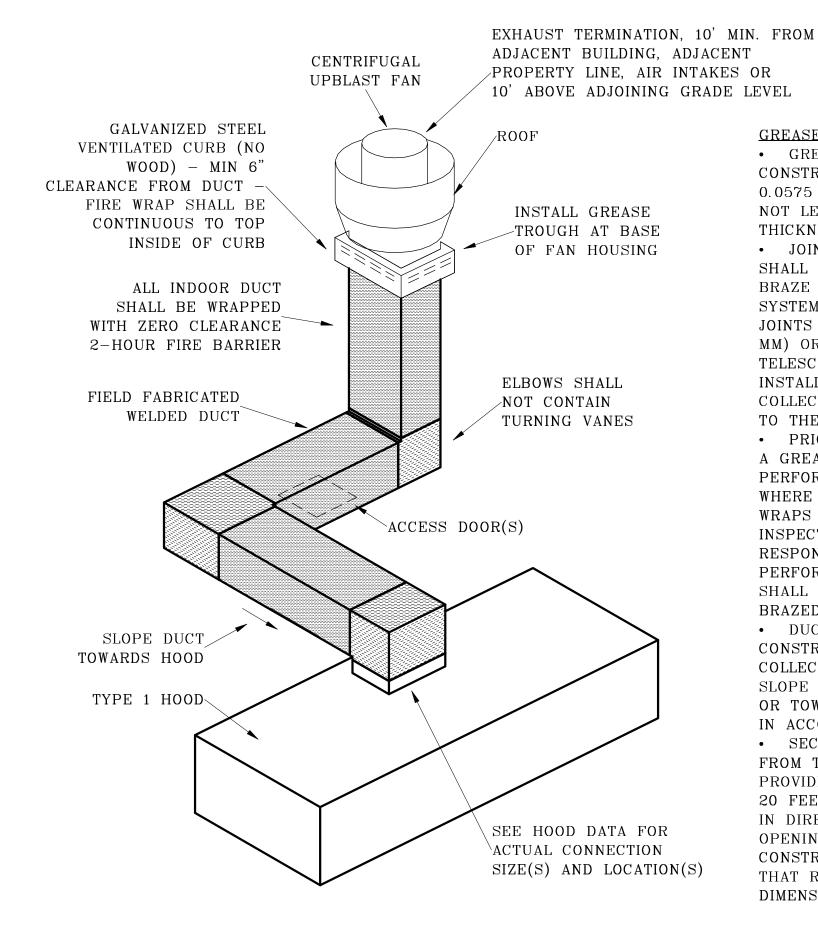




2) ON DUCTWORK TRANSITIONING ON ALL FOUR SIDES, NONE OF THE TRANSITION ANGLES MAY EXCEED 15°

DUCT	TRANSITION	
000000000000000000000000000000000000000		
	SCALE:	
DETAL	NONE	
000000000000000000000000000000000000000		





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

• 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.

GREASE DUCT SCALE: DETAIL NONE

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HVAC DETAILS

DRAWING NUMBER:

	INF				MAX			Lauten	25070					LENUM			022.0	HOOD C	ONFIG
HOOD	TAG	MODEL	MANUFACTURER	LENGTH	COOKING	TYPE	APPLIANCE DUTY	THE RESERVE THE PROPERTY OF THE PARTY OF THE	EXH CFM	A supplier of			RISER		Attant		HOOD CONSTRUCTION	END TO	ROW
1,0	- 1			17.1	TEMP		DOTT	CITIZET	LAIT OF IT	WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	CHASTROCTEN	END	IVE W
1	KH-1	5424 ND-2	CAPTIVEAIRE	12′ 0″	600 DEG	1	HEAVY	250	3000			4"	18″	3000	1698	-0.951"	430 SS WHERE EXPOSED	ALONE	ALONE
2	KH-2	5424	CAPTIVEAIRE	15′ 0″	600	T	HEAVY	250	3750			4"	14"	1875	1754	-0.840"	430 SS	ALONE	ALONE
	NH-C	ND-2	CAPTIVEAIRE	15 0	DEG	1	HEAVI	230	3/30			4"	14"	1875	1754	-0.840"	WHERE EXPOSED	ALUNE	ALUNE
3	DH-1	4824 VHB-G-ND	CAPTIVEAIRE	4' 0"	700 DEG	11	N/A	200	800			4"	12"	800	1019	-0.118"	430 SS 100%	ALONE	ALONE

HOOD INFORMATION

				FILTER	(2)			LIGHT(S)				U	ITILITY CABINET(S)			FIRE	HOOD								
HOOD	TAG	Electric	174			EFFICIENCY @ 7	N Carlotte Company	WIPE	WIRE	WIRE		WIRE	\/TDF	TRE	20.00	4. S.	Constitution of the consti		A. S. S. Sanda S		E SYSTEM	ELECTRICAL	SWITCHES	SYSTEM	
NO TAG	TYPE QTY	QTY HEIGHT LENGTH	TLENGTH	MICRONS	QTY	TYPE	GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY		WEIGH										
4	VII 1	CADIDATE SOLD ELLTED	0	20#	164	85% SEE FILTER		DECESSED DELIND	NE	LECT	10%-54%-04%	TANK ES	40740	DCV 1011	1 LIGHT	VES	1090								
1	KH-1	CAPTRATE SOLO FILTER	9	9 20" 16" SPEC 6 RECESSED ROUND NO LEFT 12"x54"x24" TANK FS	4.0/4.0	DC∨-1011	1 FAN	YES	LBS																
2	ZII. O	CAPTRATE SOLO FILTER	11	20#	16*	85% SEE FILTER	7	DECESSED DEUND	NO	DICUT	12"×54"×24"	TANK ES	40/40/40	DCV-2011	1 LIGHT	VES	1385								
۲	KH-2	CAPIRATE SULU FILTER	11	20"	16	SPEC	,	RECESSED ROUND	NO	RIGHT	IE XJ4 XE4	TANK FS	4.0/4.0/4.0	DC V -2011	1 FAN	YES	LBS								
3	DH-1						0									NO	201 LBS								

10D	TAG	OPTION
		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00" HIGH X 108.00" LONG 430 SS VERTICAL.
1		BACKSPLASH 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.
	KH-1	RIGHT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
	NH I	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,
		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122,00" HIGH X 228,00" LONG 430 SS VERTICAL,
		INSULATION FOR TOP OF HOOD.
		STRUCTURAL FRONT PANEL.
2	KH-5	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		TYPE SIZE		DESIGN -	INSTALLATION			
SYSTEM TAG	TAG		SIZE	MAX FP	FP	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 ***

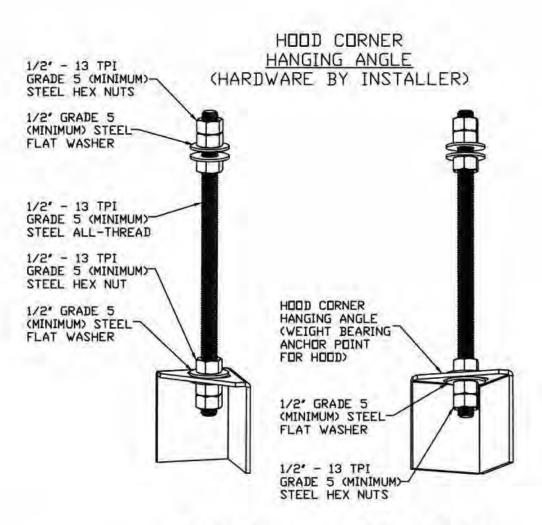
ALL WALLS AND STRUCTURES I THAT COME WITHIN 18" OF HOOD MUST BE METAL STUDS AND SHEETROCK, WOOD STUDS OR ANY OTHER COMBUSTIBLE MATERIAL WITHIN 18" OF HOOD

*** NOTE ***

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

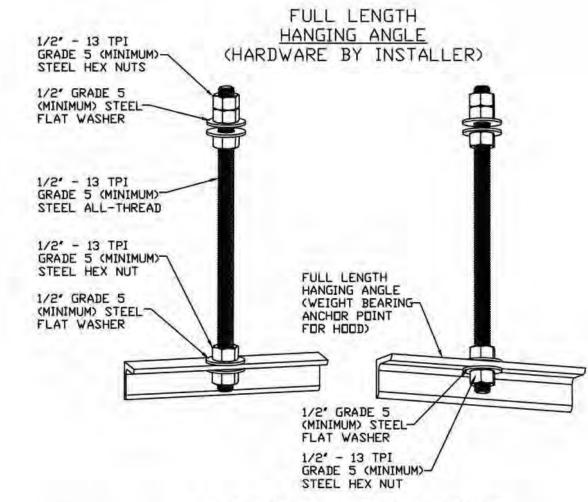
*** NOTE ***

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 ANCHORS, SINGLE HEX NUT BENEATH HANGING ANGLE IS 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 ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

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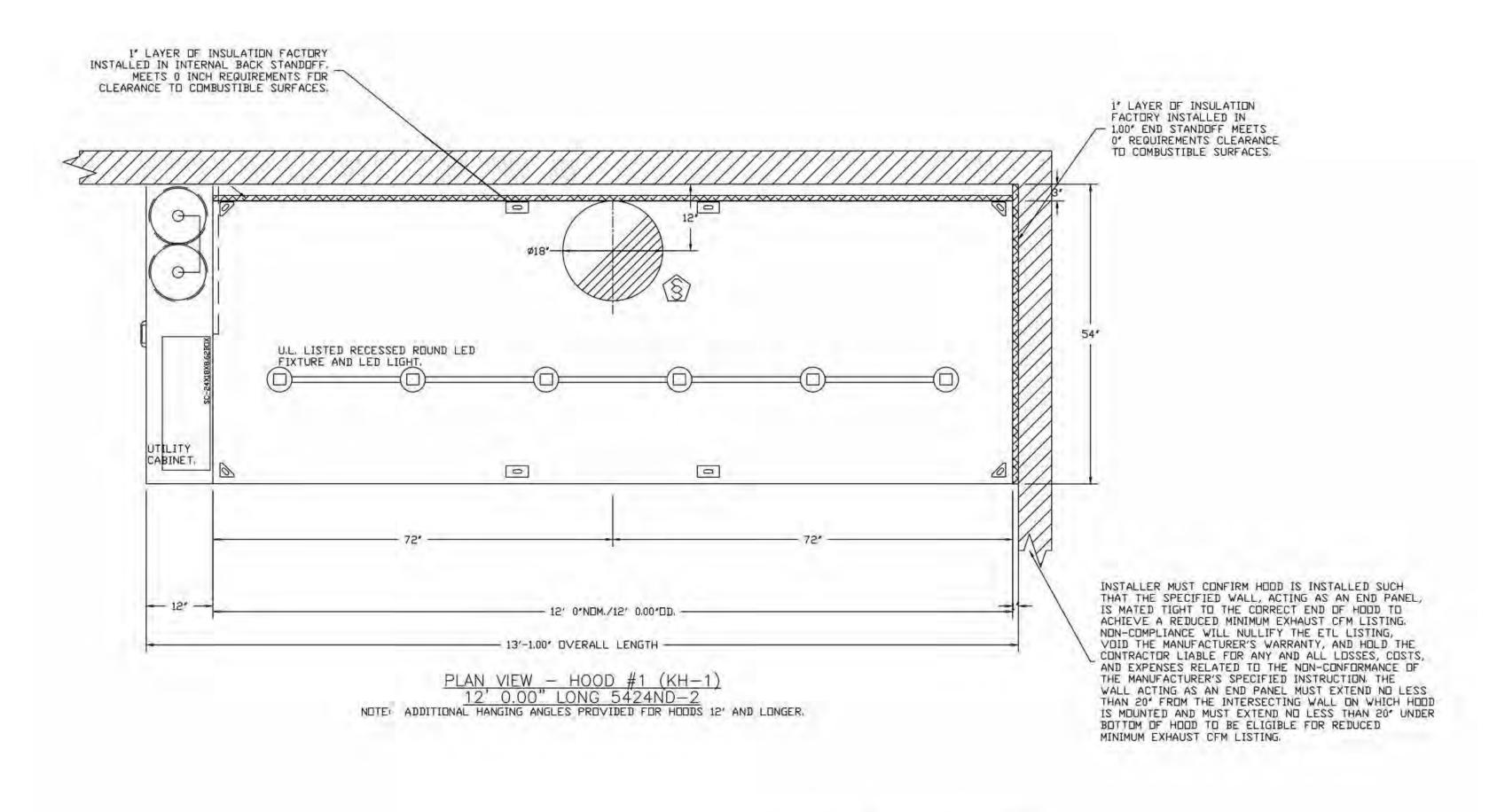
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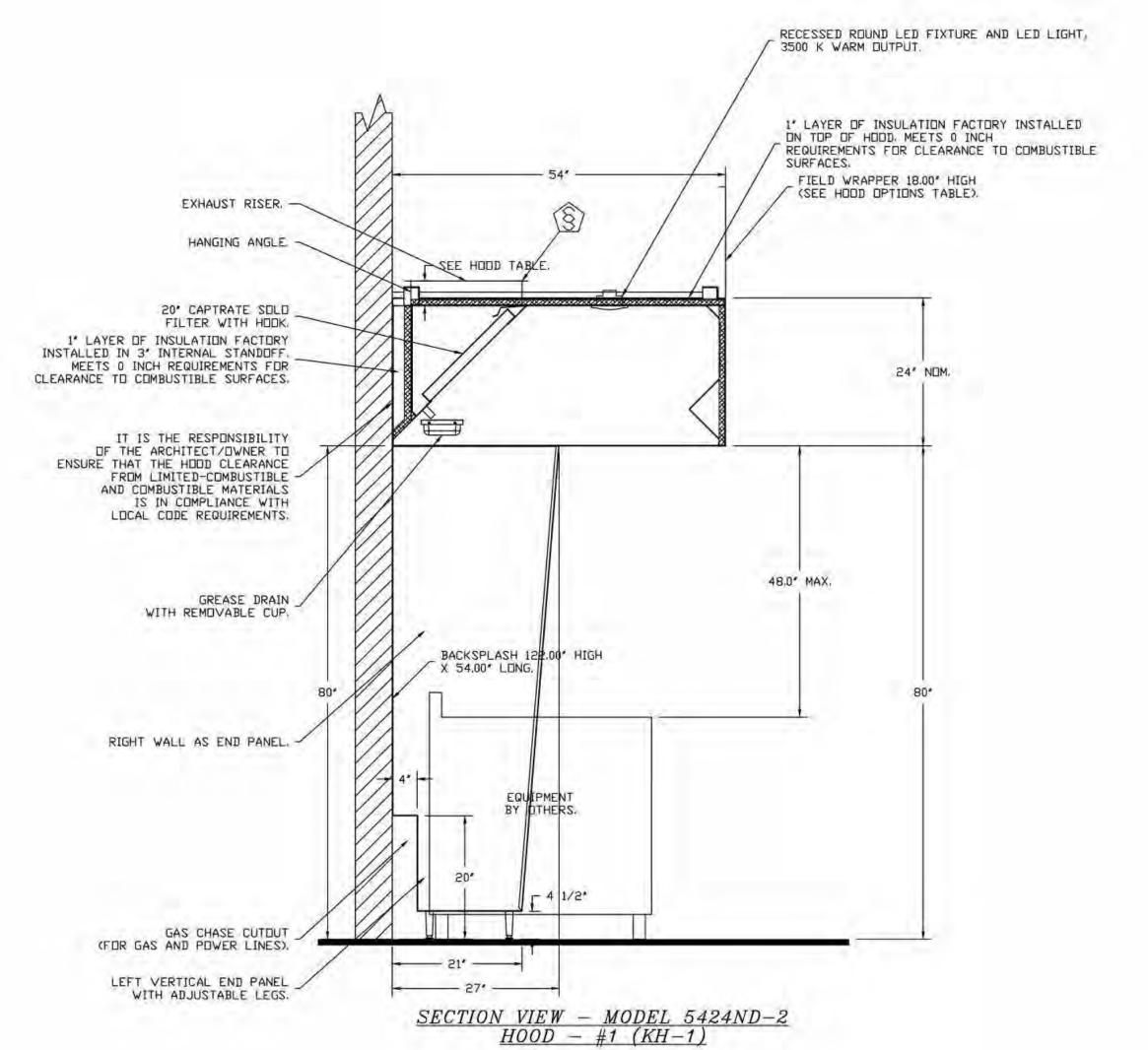
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HVAC SCHEDULES





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1	DESIGN DEVELOPMENT	20 SEPT 202
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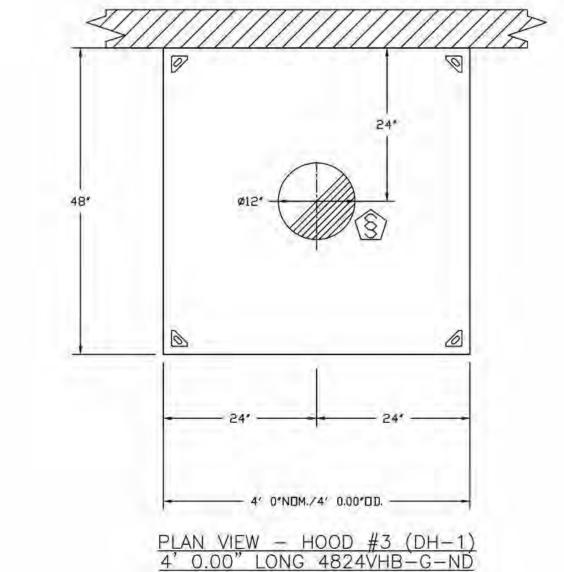


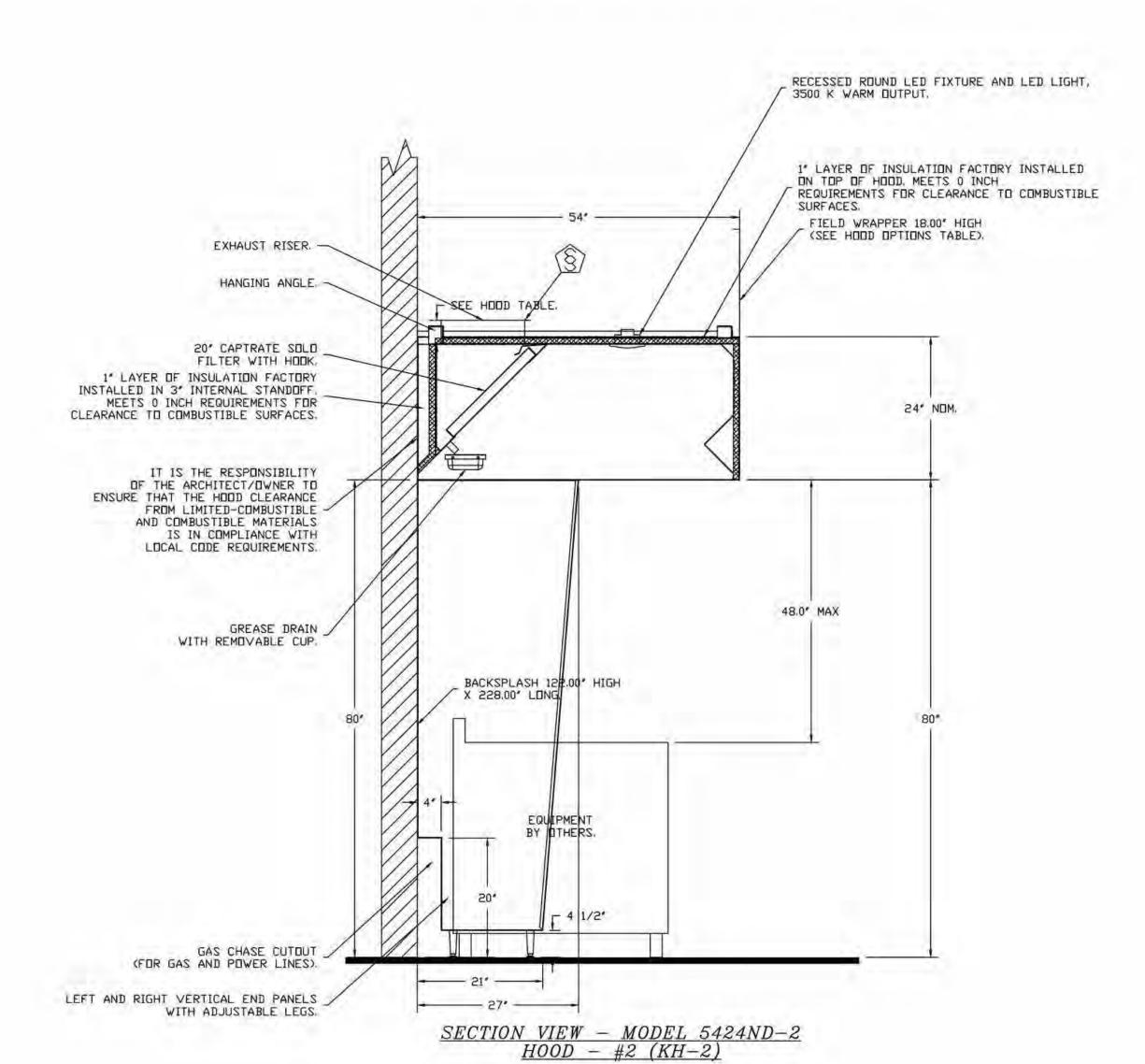
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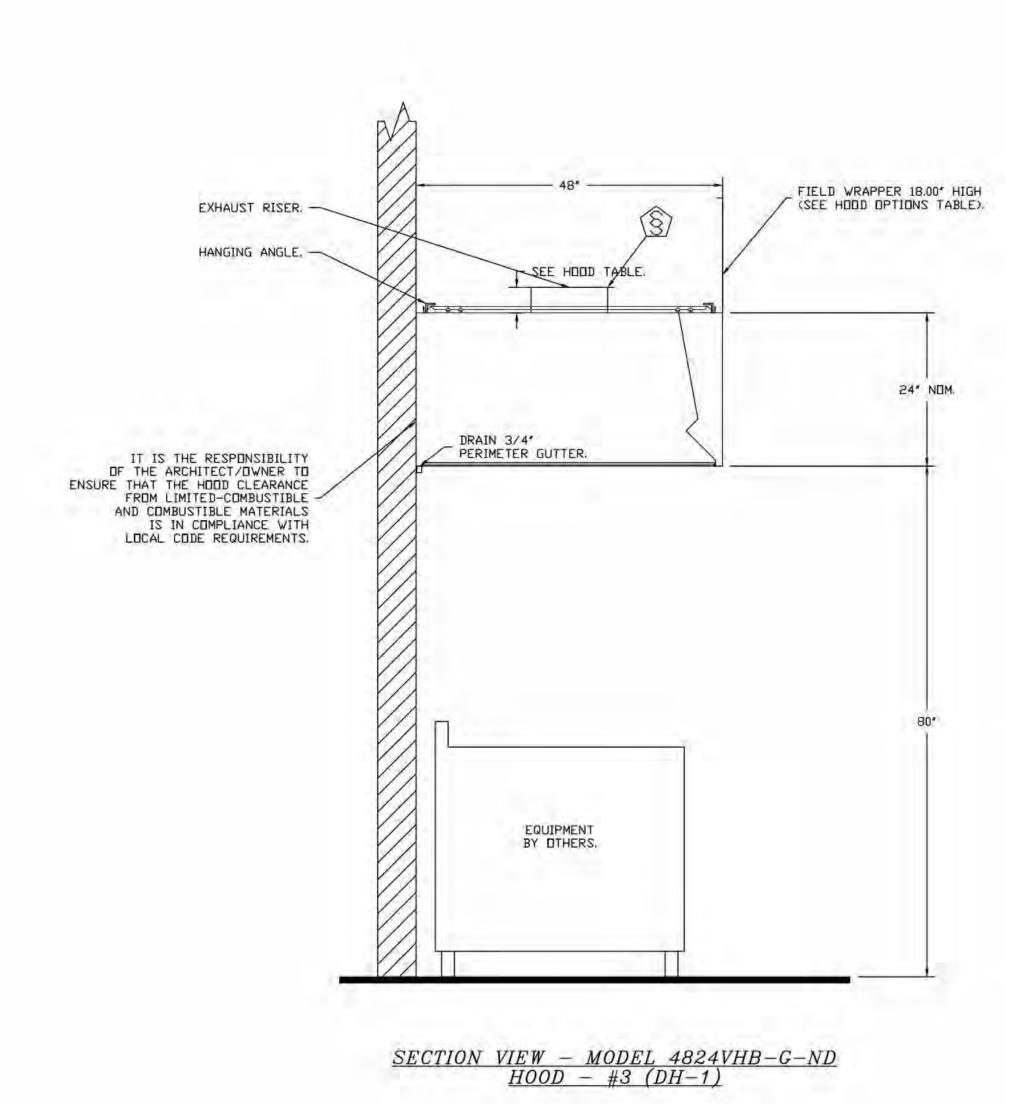
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 $\frac{\text{PLAN VIEW} - \text{HOOD } \#2 \text{ } (\text{KH}-2)}{15 \text{ } 0.00 \text{ } \text{LONG } 5424\text{ND}-2}$ Note: Additional hanging angles provided for Hoods 12' and Longer.







PROJECT NUMBER: 00-000

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HVAC SCHEDULES

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H8.3

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DOAS/RTU FAN SCHEDULE - JOB#7086703 FAN INFORMATION ELECTRICAL INFORMATION COOLING INFORMATION REHEAT INFORMATION GAS HEAT INFORMATION RETURN DUTSIDE CFM (LBS) DUTSIDE AIR MIXED AIR LEAVING AIR CAPACITY DISCHARGE CAPACITY GAS INPUT DUTPUT TEMP
TYPE BTUS BTUS RISE REQUIRED INPUT NOTES UNIT TAG QTY REMOVAL RATE DOAS/RTU MODEL # MANUFACTURER BLOWER ESP | HP | PHASE | VOLT | GAS PRESSURE DB DB | WB MAX WB WB SENS. DESIRED 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 4 MAU-1 CAS-HVAC4-I.700-30-22T CAPTIVEAIRE 30MF-4-RTU 7 IN. W.C. - 14 IN. W.C.

1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED DIL SENSOR. DIGITAL DR STAGED SCROLL NOT AN APPROVED EQUAL

2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE 3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER

4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE 5. EC MOTOR CONDENSING FANS

7. SUCTION LINE ACCUMULATOR 8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER

9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2' EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE

11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE, 12:1 TURNDOWN WITH NG AND 10:1 TURNDOWN WITH LP 12, SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE

13. FULLY MODULATING HOT GAS REHEAT

16. DOWN DISCHARGE/DOWN RETURN

14. HAIL GUARD FOR CONDENSING COIL 15. STATIC PRESSURE CONTROLLED DUTSIDE AIR DAMPER

6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE

AN NIT	TAG	QTY	DESCRIPTION
NO		1	GREASE BOX
			FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
1	KEF-1	1	
		1	UPBLAST FAN WHEEL ACCESS PORT
		1	2 YEAR PARTS WARRANTY
		1	GREASE BOX
	VEE 2	1	FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
5	KEF-2	1	UPBLAST FAN WHEEL ACCESS PORT
•		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	GREASE BOX
	- Carlo	1	FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
KEF-3		1	UPBLAST FAN WHEEL ACCESS PORT
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	INLET PRESSURE GAUGE, 0-35*
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10' WC, 2 FURNACES
		1	TOTAL CFM MONITORING
		1 -	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TD 240°F
		1	SHIP LOUSE GAS STRAINER 1'
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED, IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED, DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU4 DOWN DISCHARGE
		1	2' MERV 13 FILTERS FOR RTU4 (QTY, 12)
		1	2' MERV 8 FILTERS FOR RTU4 (QTY, 12)
		1	OVERHEAT STAT
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	SPECIAL DRIFICES FOR IF HEATERS ABOVE 2,000'
4	MAU-1	1	22 TON MODULATING COOLING OPTION, 208/230V. 3CFS. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	22 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL R410A
		1	DCCUPIED SCHEDULING
		1	RTU4 CURB DUCT HANGER
		1	120V FIRE INPUT
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		11	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU4 CONVENIENCE DUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	RTU4 HAIL GUARD
		1	RTU4 DOWN RETURN
		1	RTU INTAKE/RETURN DAMPER - BUILDING STATIC PRESSURE CONTROL
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOT MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET
	11	1	I 15-BDD DAMPER
		1	SCR-11 BIRD SCREEN
5	DEF-1	1	ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCO), CCW ROTATION

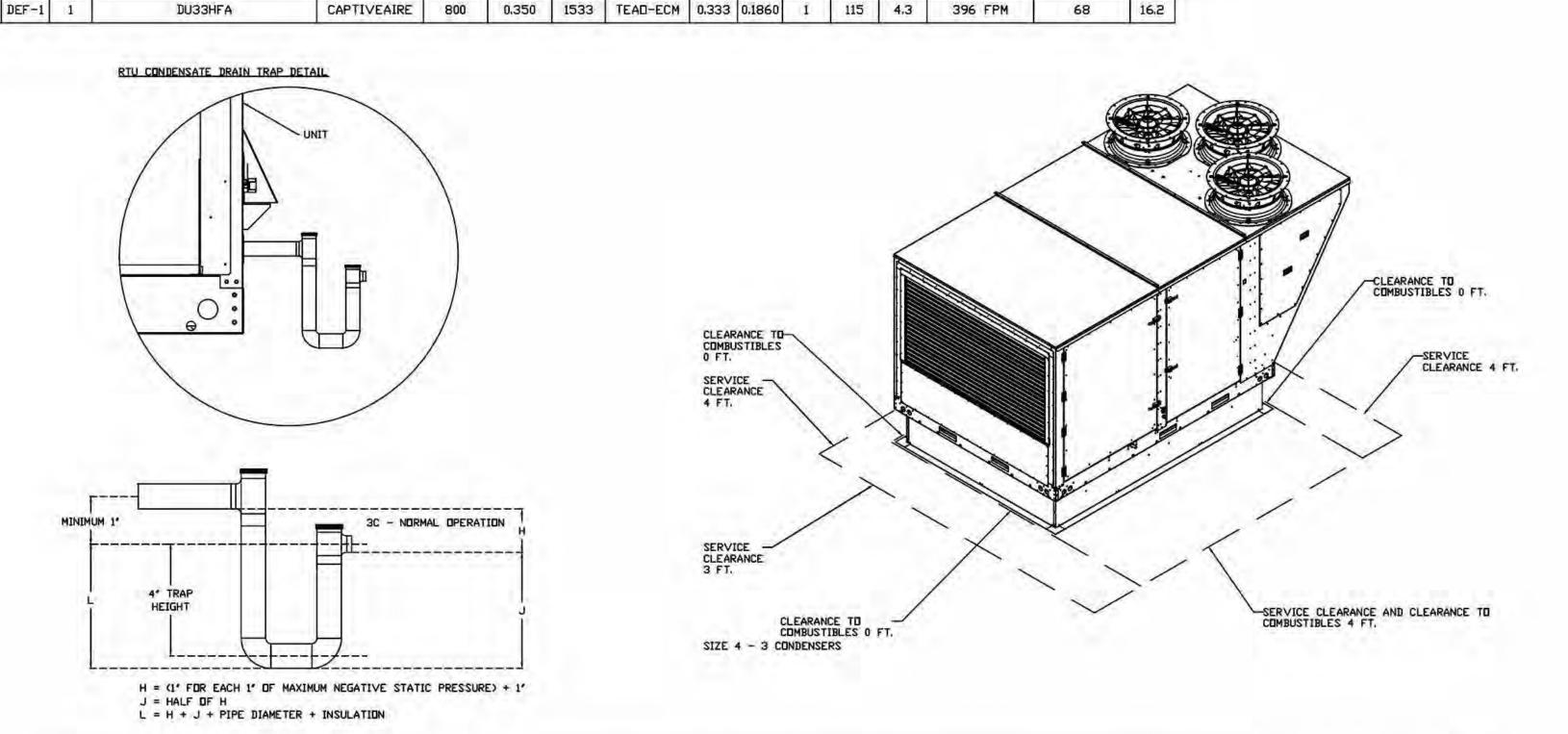
FAN FAN	ACCES	SORIE	PLY					
UNIT NO	TAG	GREASE CUP	GRAVITY DAMPER	The state of the s	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WAL
1	KEF-1	YES						
2	KEF-2	YES						
3	KEF-3	YES		11 11				
5	DEF-1		YES	1121				

2 YEAR PARTS WARRANTY

ND	ON 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			

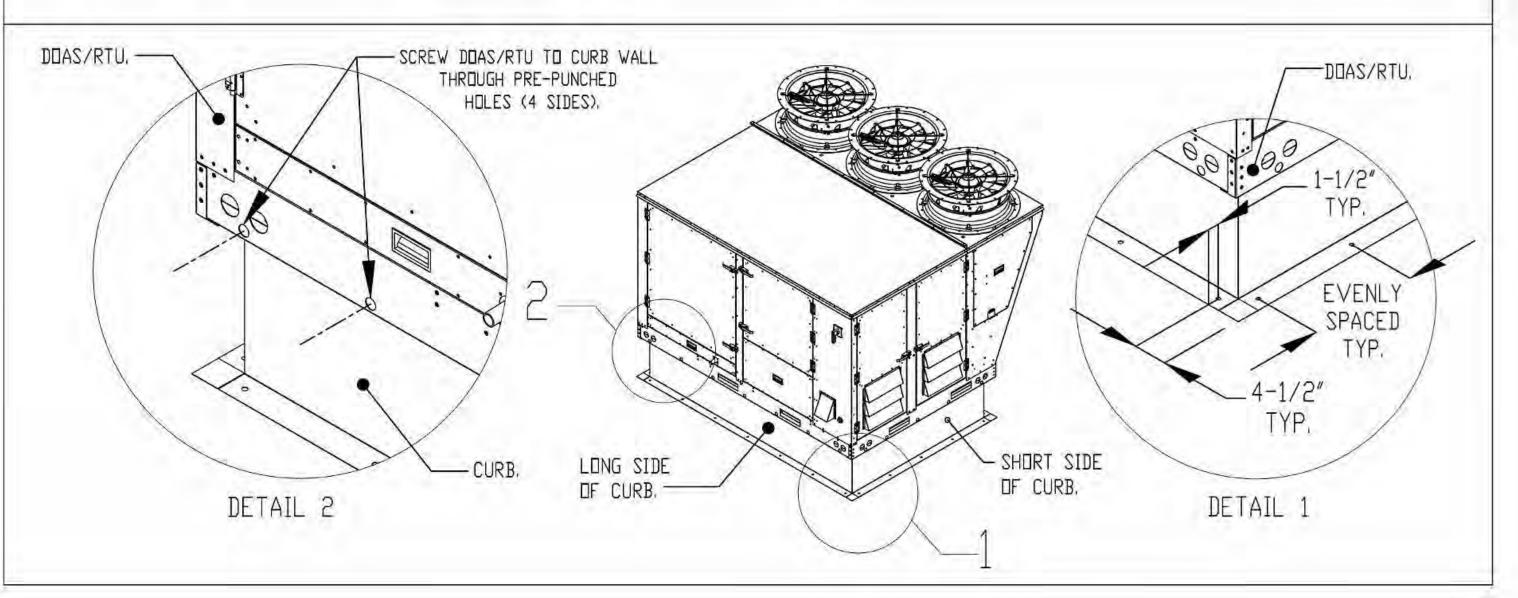
EXHAUST FAN INFORMATION - JOB#7086703 WEIGHT (LBS) DISCHARGE FAN UNIT MODEL # UNIT MANUFACTURER ESP VOLT CFM CAPTIVEAIRE 208 693 FPM 24.5 KEF-1 1 DU180HFA 3000 1.750 1461 | DDP, PREMIUM 3.000 | 1.8160 | 186 802 DU180HFA CAPTIVEAIRE 433 FPM 144 3 KEF-3 1 DU180HFA CAPTIVEAIRE TEAU-ECM 2.000 1.0530 208 8.5 18 1875 1.500 1267 433 FPM 144 DU33HFA



TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

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.

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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PERMIT SET 20 SEPT 2024 DESIGN DEVELOPMENT 11 OCT 2024 PERMIT SET

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HVAC SCHEDULES

DRAWING NUMBER:

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.

EXHAUST FAN MUST OPERATE CONTINUOUSLY

WHILE EXHAUSTING BURNING GREASE VAPORS

DAMAGED TO ANY EXTENT THAT COULD CAUSE

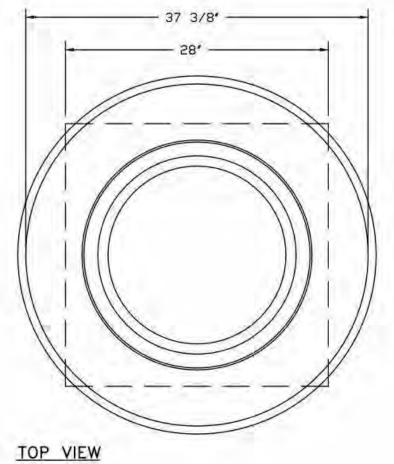
AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING

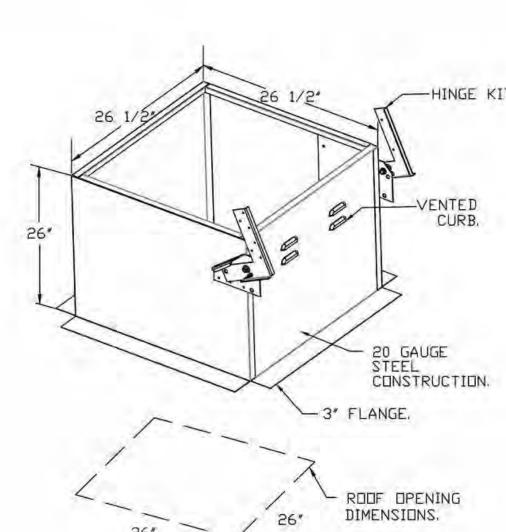
AN UNSAFE CONDITION.

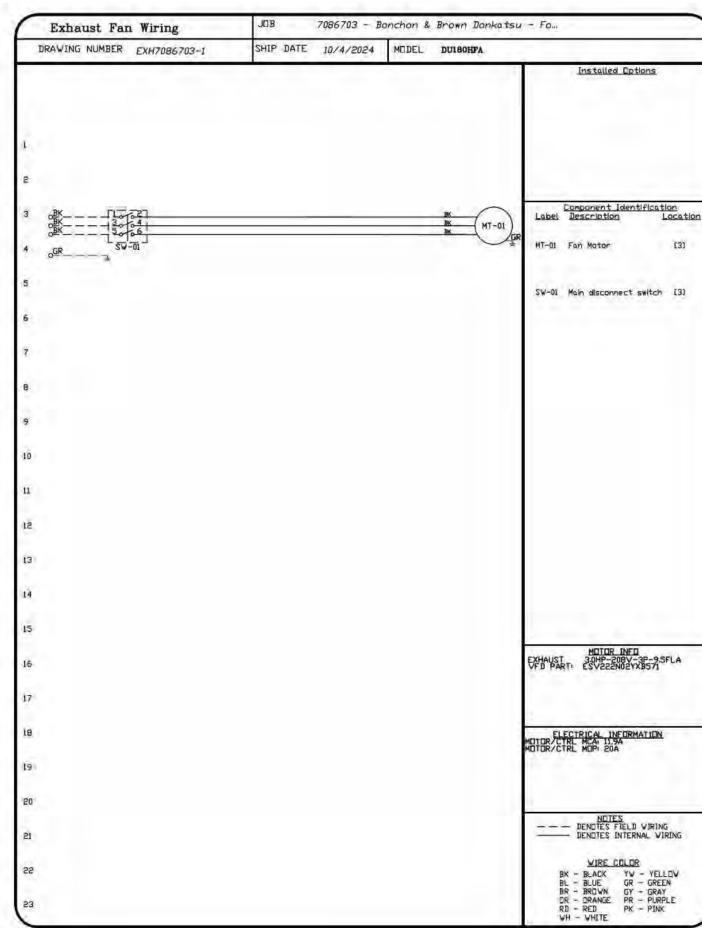
ABNORMAL FLARE-UP TEST

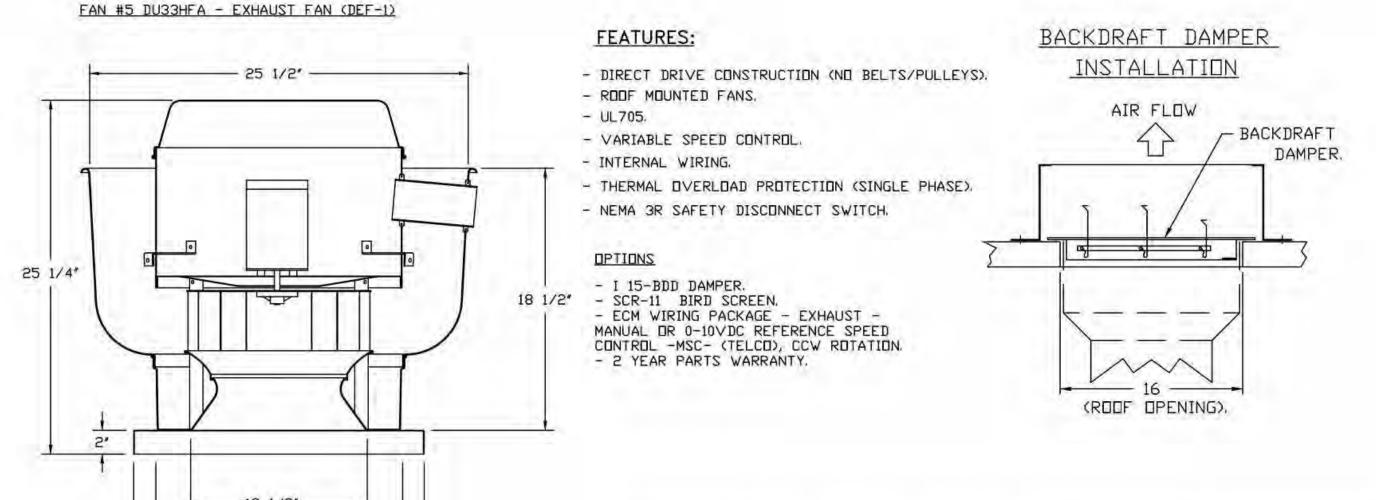
- DPTIONS - GREASE BOX. - FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE
- UPBLAST FAN WHEEL ACCESS PORT,

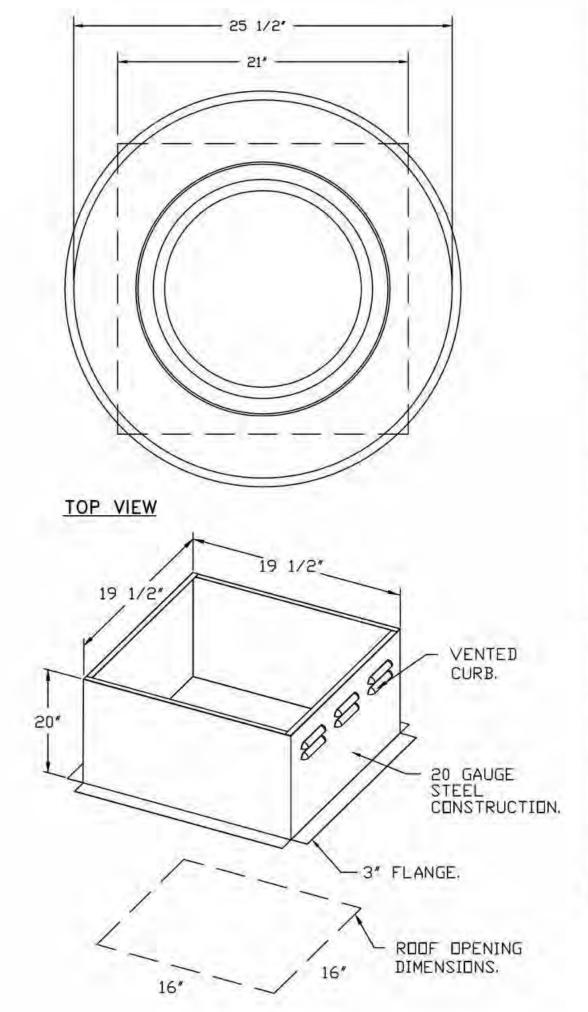
- 2 YEAR PARTS WARRANTY.

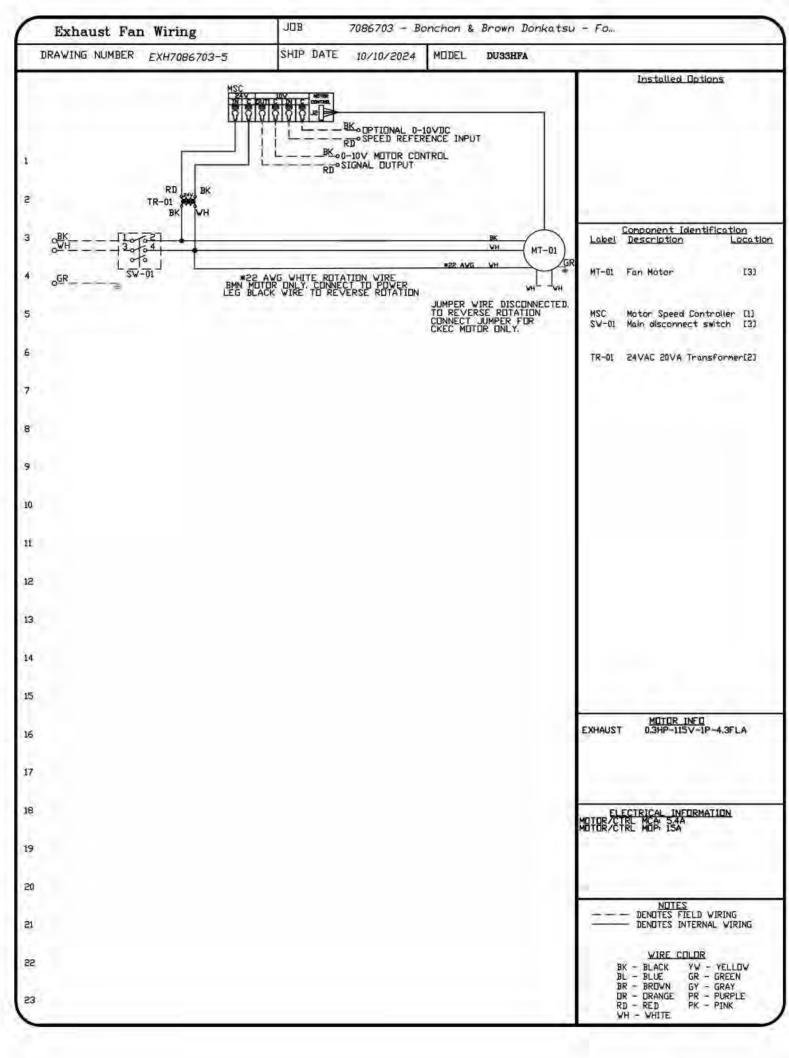












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PERMIT SET No. Description 20 SEPT 2024 DESIGN DEVELOPMENT 11 OCT 2024 2 PERMIT SET

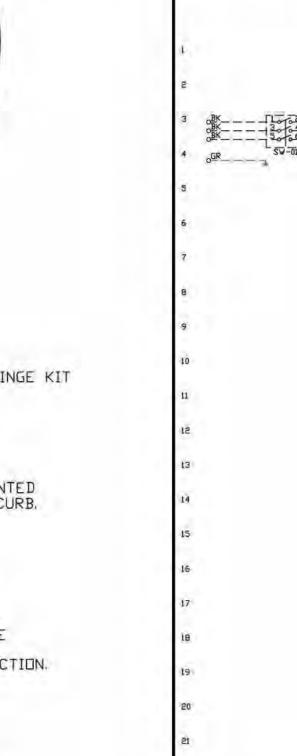
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HVAC SCHEDULES



FEATURES:

- DIRECT DRIVE CONSTRUCTION (ND 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

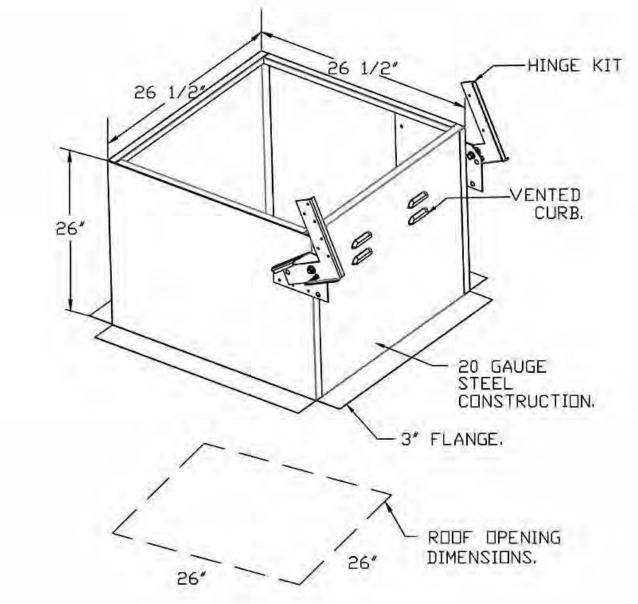
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

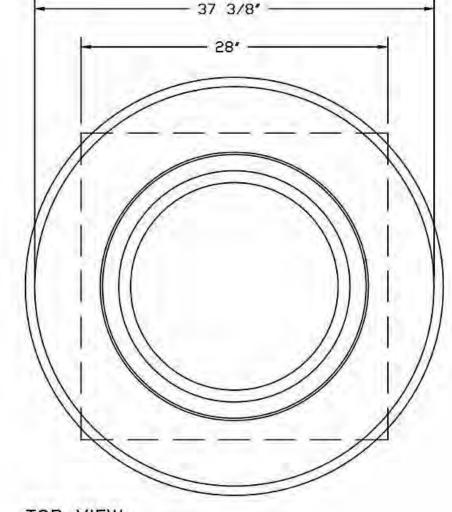
ABNORMAL FLARE-UP TEST

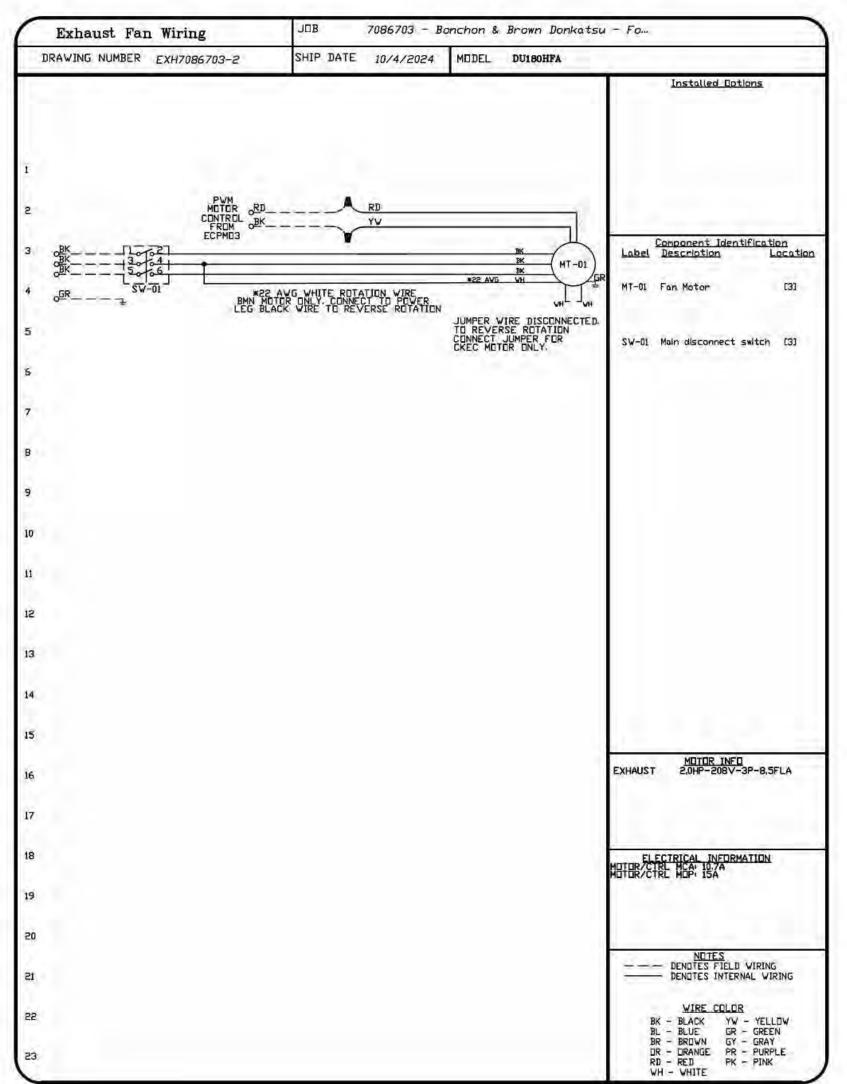
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

DPTIONS

- GREASE BOX. - FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE
- UPBLAST FAN WHEEL ACCESS PORT.
- ECM WIRING PACKAGE PWM SIGNAL FROM ECPMO3 PREVIRE (TELCO MOTOR),
- CCW ROTATION. - 2 YEAR PARTS WARRANTY.







Exhaust Fan Wiring		Bonchon & Brown Donkats	5U - F U
DRAWING NUMBER EXH7086703-3	SHIP DATE 10/4/2024	MDDEL DU180HFA	Installed Options
PVM CONTROL BE FREM ECPMES BK 3064 BK 5066 BK 13064 BK ECPMES BK ECPMES	AVG WHITE ROTATION WIRE DIGR ONLY. CONNECT TO POWER ACK WIRE TO REVERSE ROTATION		Component Identification Label Description Locati GR MT-01 Fan Motor [3] SW-01 Main disconnect switch [3]
5			EXHAUST 2.0HP-208V-3P-8.5FLA
			ELECTRICAL INFORMATION
p			MUTUR/CIRL MUP: 15A
i i			NOTES
			— — DENOTES FIELD WIRING — DENOTES INTERNAL WIRING
			WIRE COLOR BK - BLACK YW - YELLOW BL - BLUE GR - GREEN BR - BROWN GY - GRAY
3:			DR - DRANGE PR - PURPLE RD - RED PK - PINK

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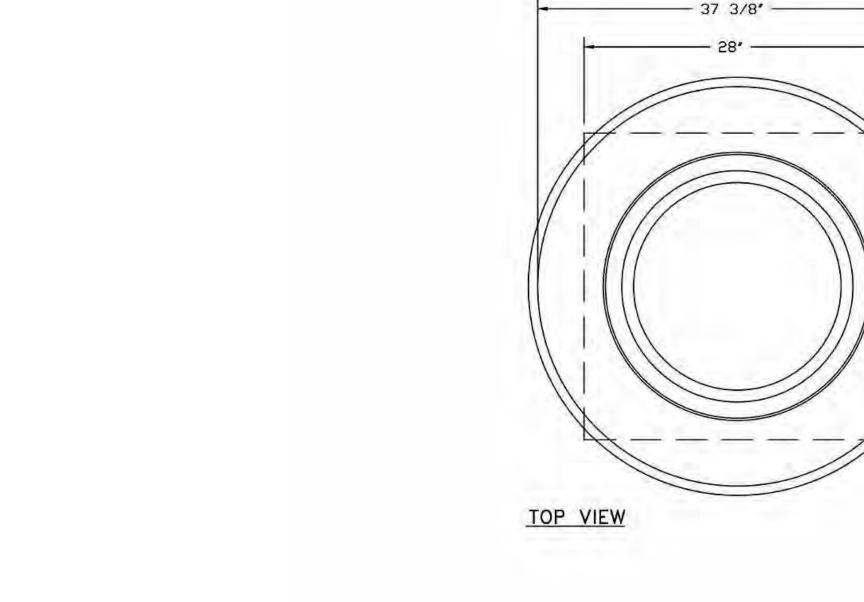
PERMIT SET 20 SEPT 2024 DESIGN DEVELOPMENT 11 OCT 2024 2 PERMIT SET

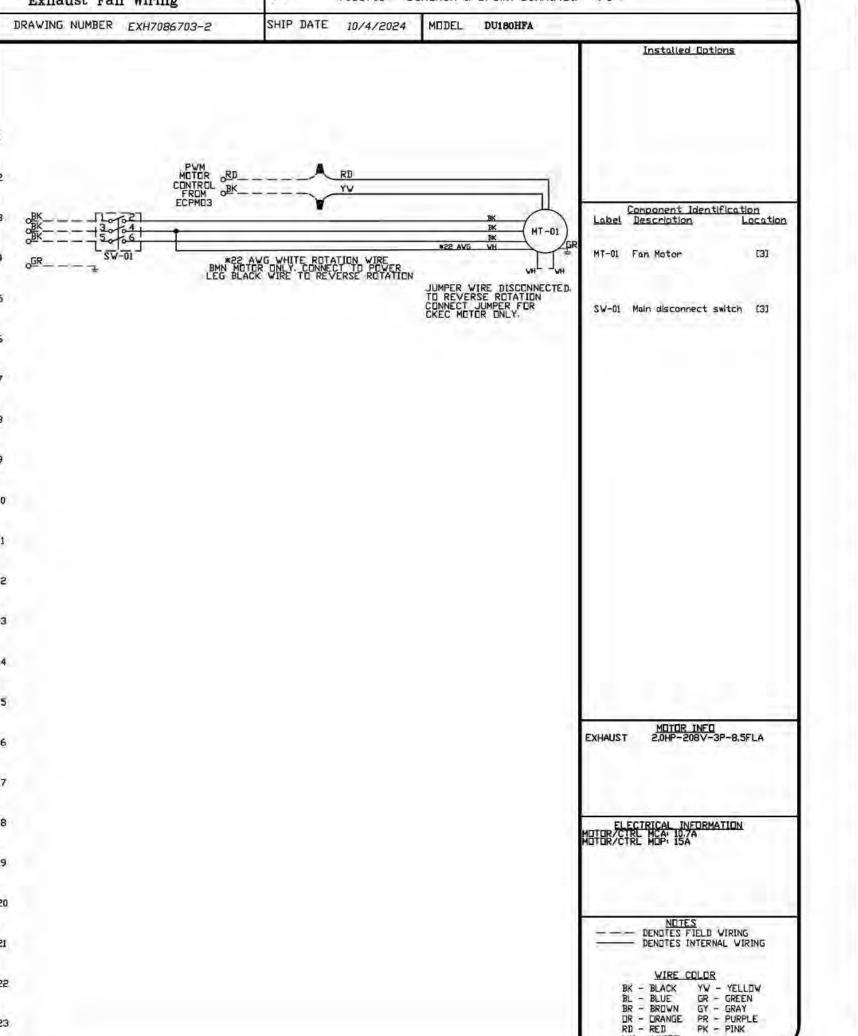
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HVAC SCHEDULES



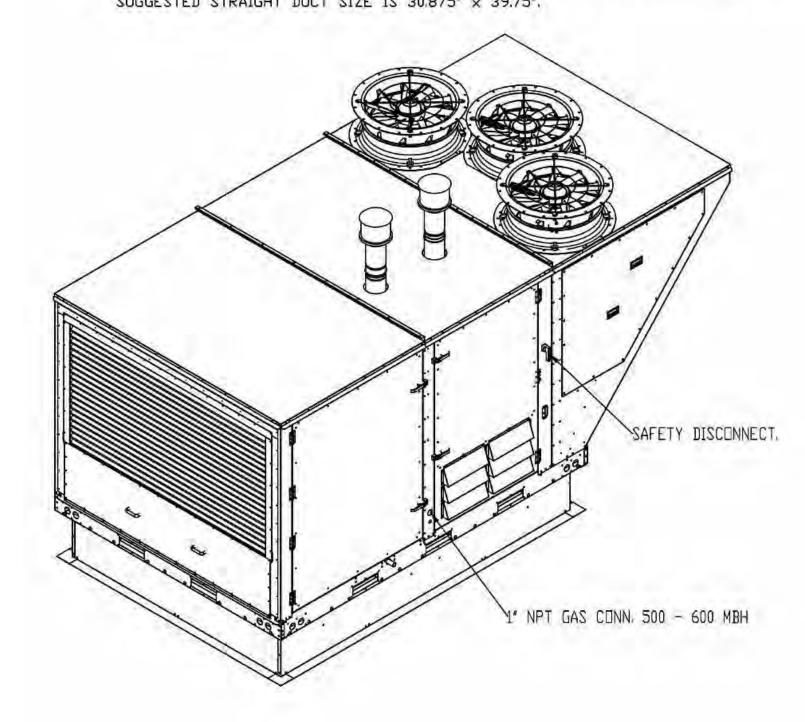


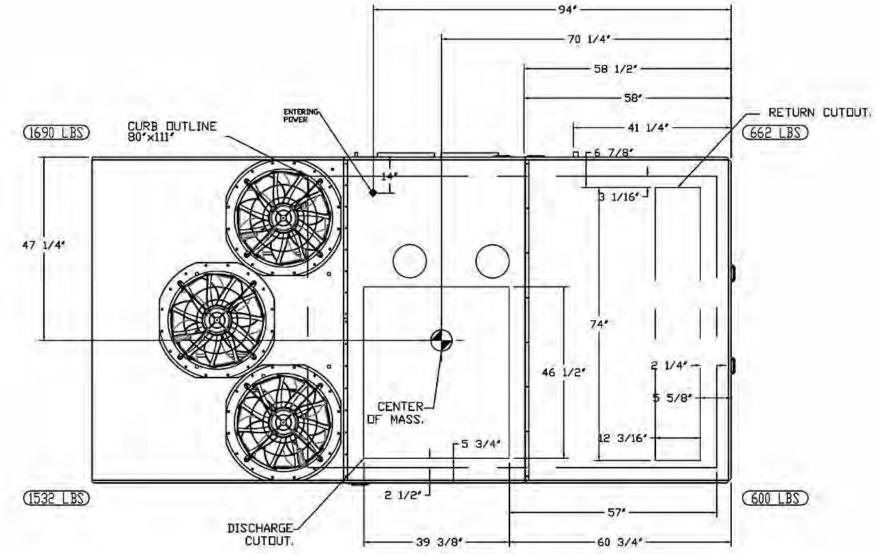
OR DUTSIDE AIR FAN. 2. DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2' SMALLER THAN CURB

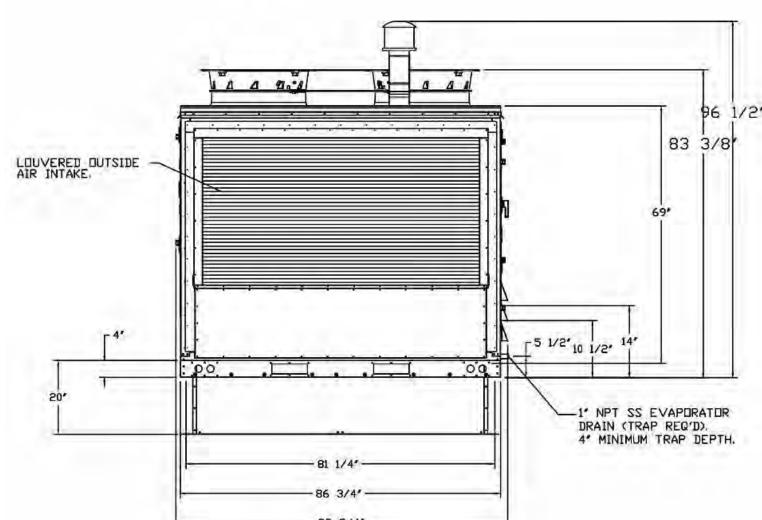
DIMENSIONS IN BOTH DIRECTIONS.
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT

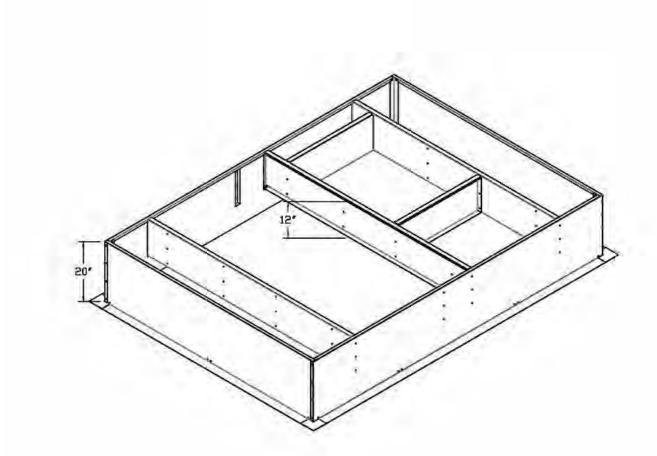
SWITCH TO BE COPPER WIRE ONLY. 5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

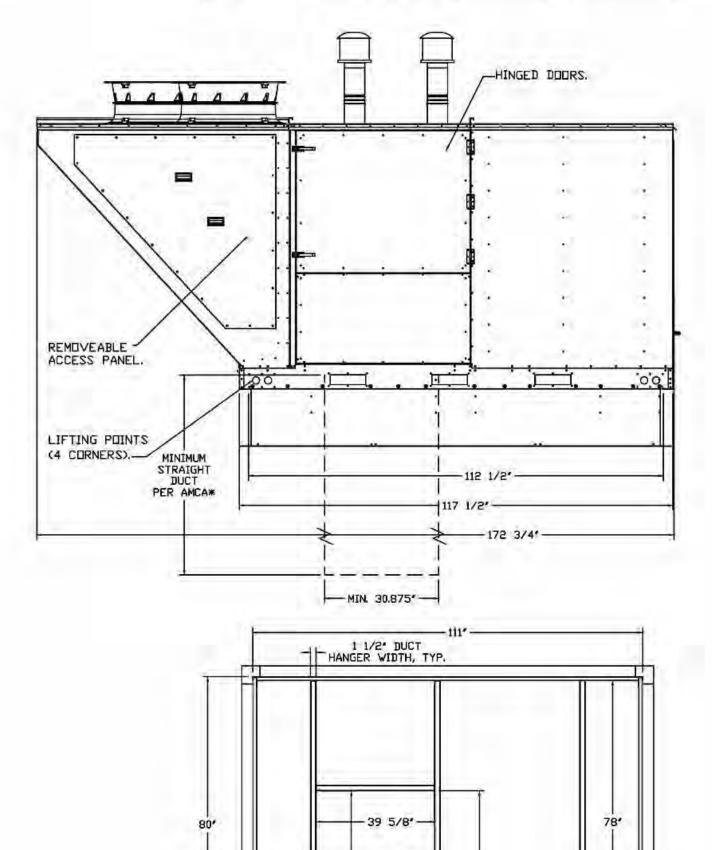
> *NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201, WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES, FLEXIBLE DUCTWORK AND SQUARE THRUAT/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" × 39.75".



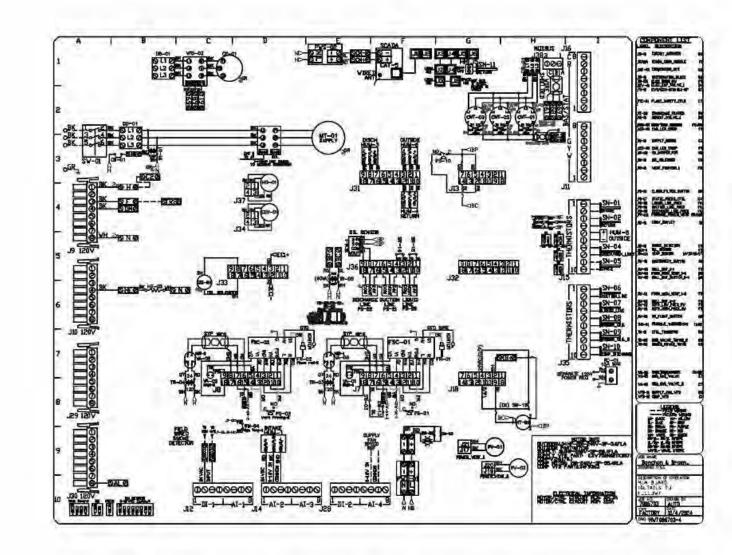


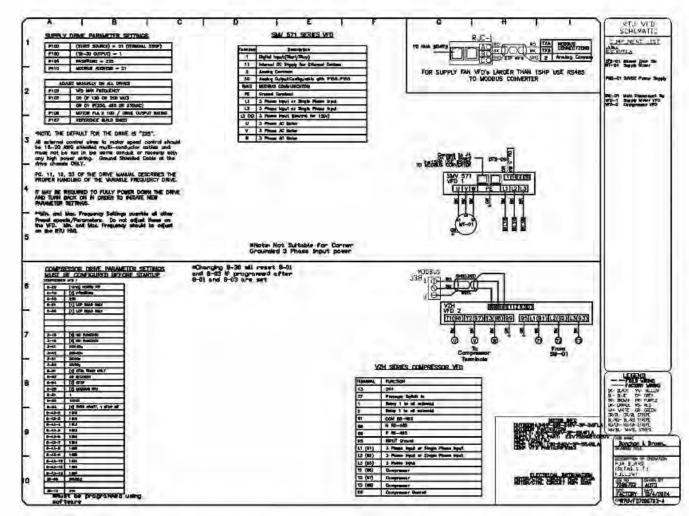


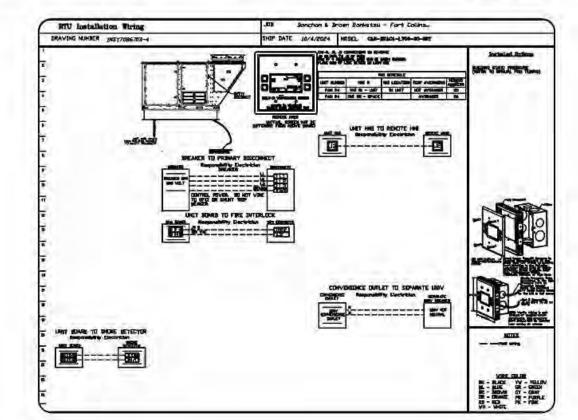




2 9/16







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PERMIT SET 20 SEPT 2024 DESIGN DEVELOPMENT 11 OCT 2024 PERMIT SET Date

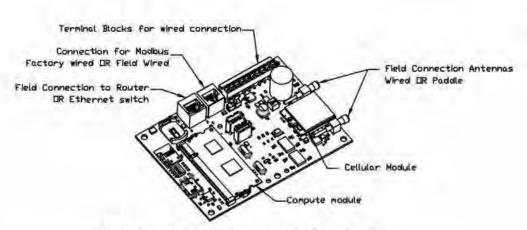
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HVAC SCHEDULES

NO	TAG	rAG PACKAGE # LOCATION	LUCATION	SWITCHES		OPTION	FANS CONTROLLED					
	ind		THORNOL II	T COOKITOR	LOCATION	QUANTITY	LI TILIT	FAN TAG	TYPE	ф	HP	VOLT
3	DCV-1011	DCV-1011	OCV-1011 UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	KEF-1 EXHAUS	EVHALIST	T 3 3.00	3,000	200	a
T		DC V-1011		H000 # 1	1 FAN			EXHAUST		3,000	200	3 314
2		DCV-2011	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV	KEF-2	EXHAUST	3	2,000	208	8.5
-		DC V -2011	-EUI OTICITI CABINET RIGHT	H00D # 2	1 FAN	SHAKI CHAIKES DOV	KEF-3	EXHAUST	3	2.000	208	8,5



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.

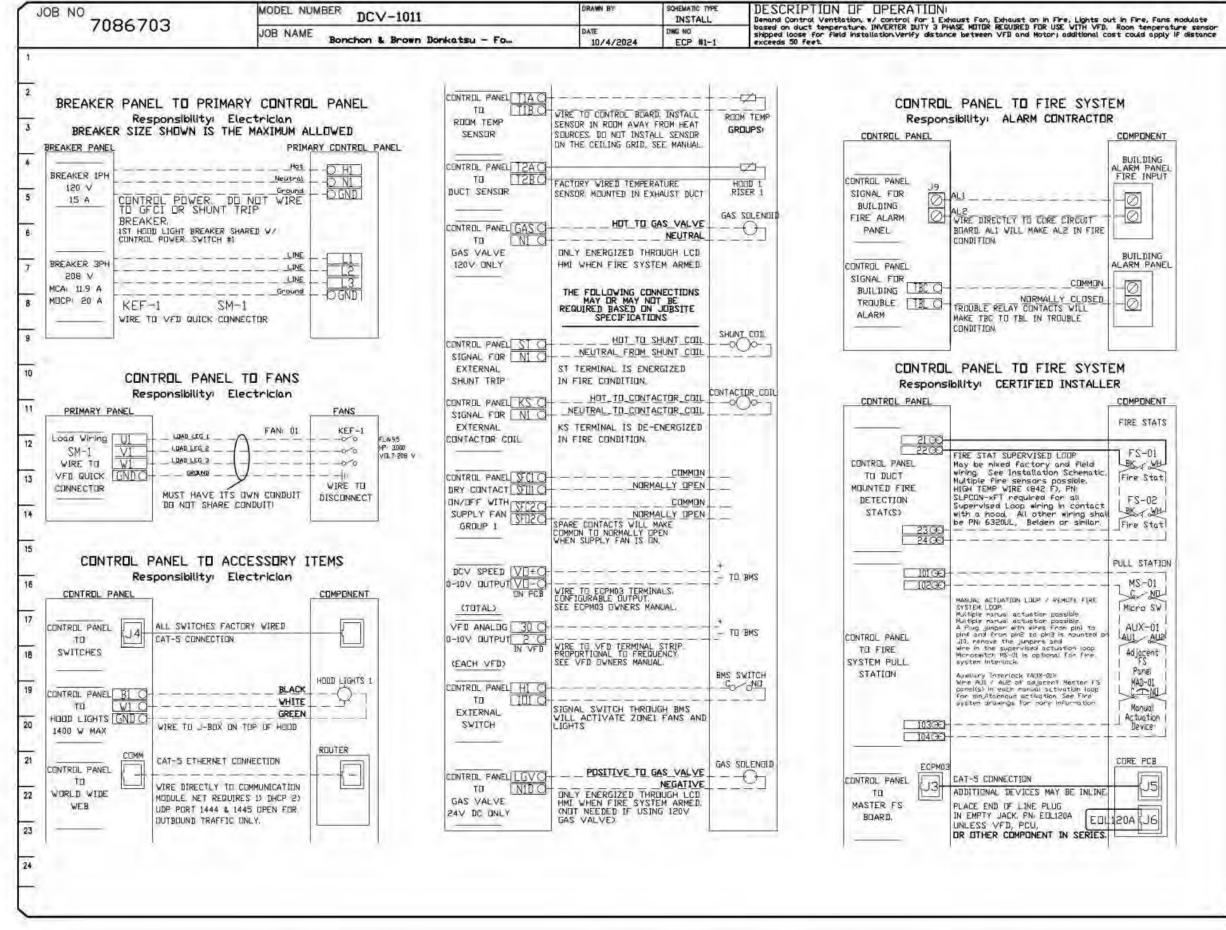
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

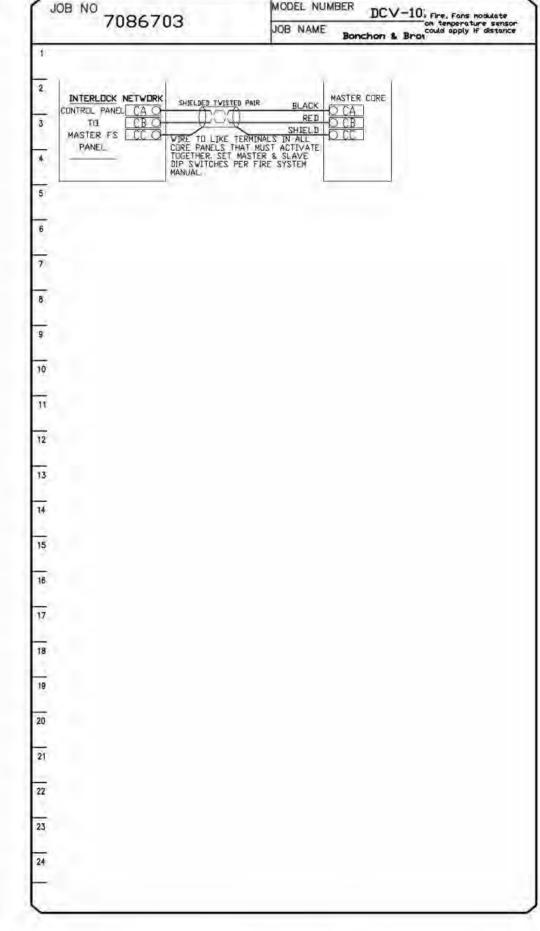
MONITORING AND CONTROL POINTS LIST

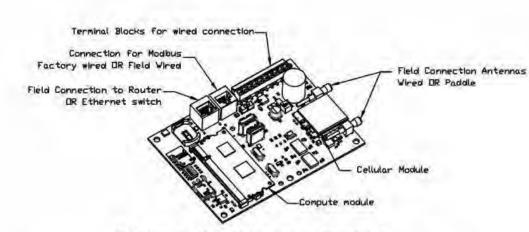
DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kilchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
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 Paults	MONITOR	Fire 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
Fire Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
CORE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		Targette and Co. Targette
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		

MONITOR & CONTROL

Wash Button







CASlink Monitor and Control

Hood control panel to support communications to cloud-based Building

Management System.

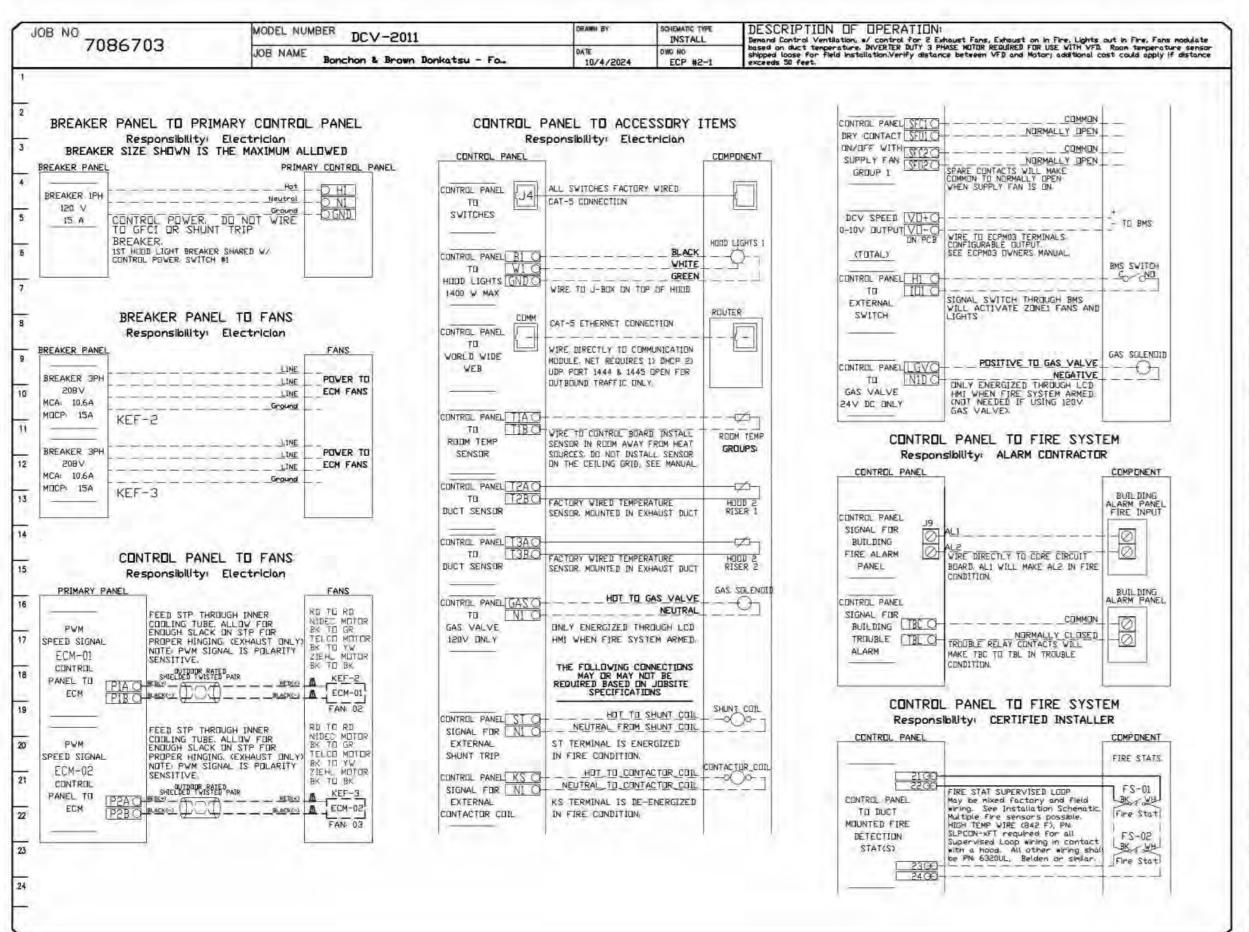
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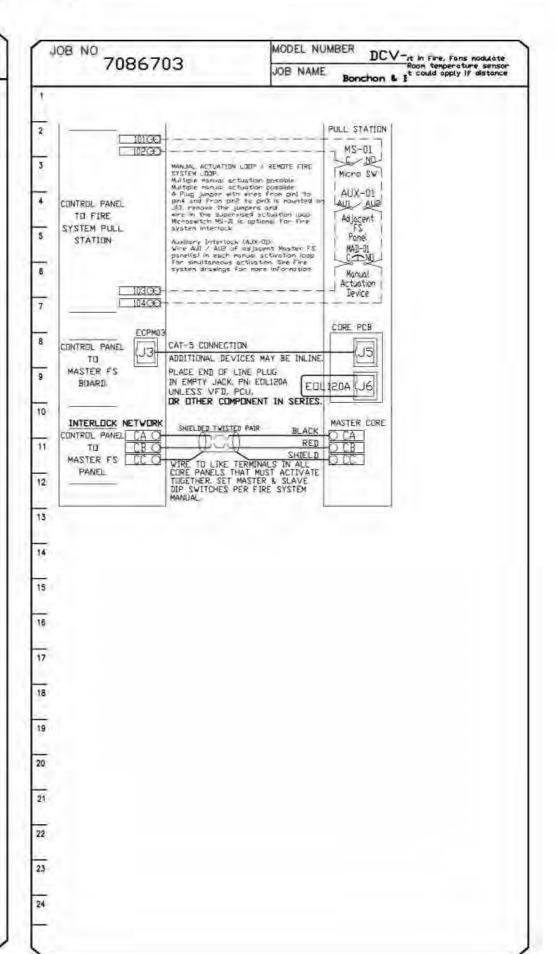
MONITORING AND CONTROL POINTS LIST

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	Fire Condition	MONITOR
Pan Status	MONITOR	CORE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTROL
Fire 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		

MONITOR & CONTROL

Wash Button





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No. Description DESIGN DEVELOPMENT 20 SEPT 2024 PERMIT SET 11 OCT 2024 DRAWN BY: TMS CHECKED BY: TMS

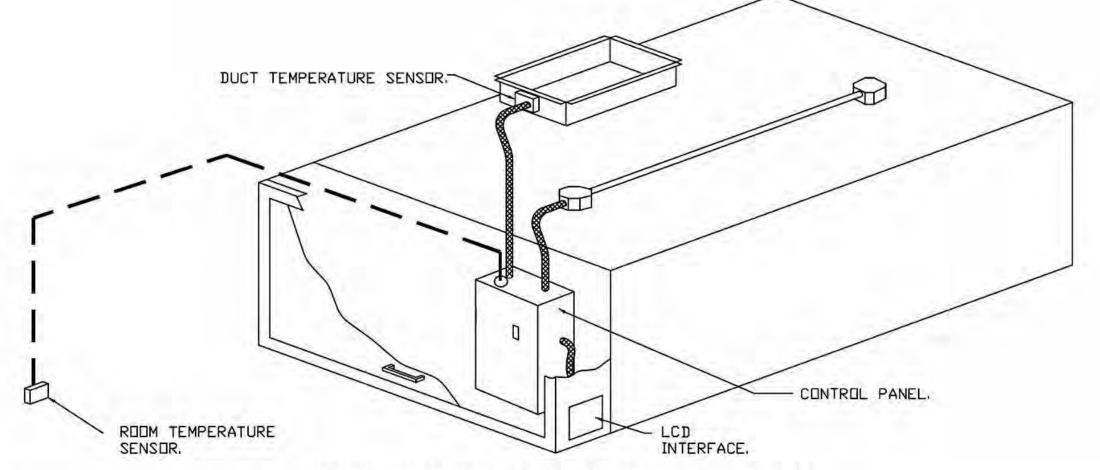
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HVAC SCHEDULES

- 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. 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. DN/DFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
- 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 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 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 DUTLINED IN IECC 403.7.5 (2021).
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- TIME, DURING UNDCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA DFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED
- <u>OTHER:</u> 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 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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PERMIT SET

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

DRAWN BY: TMS

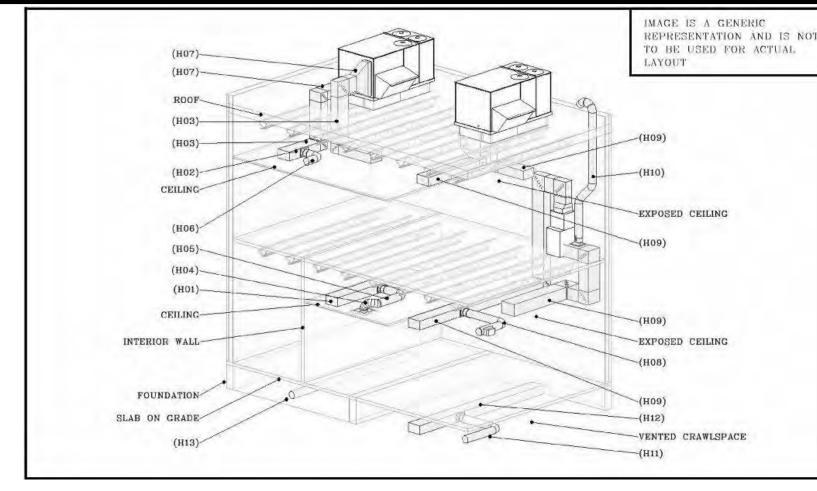


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HVAC SCHEDULES

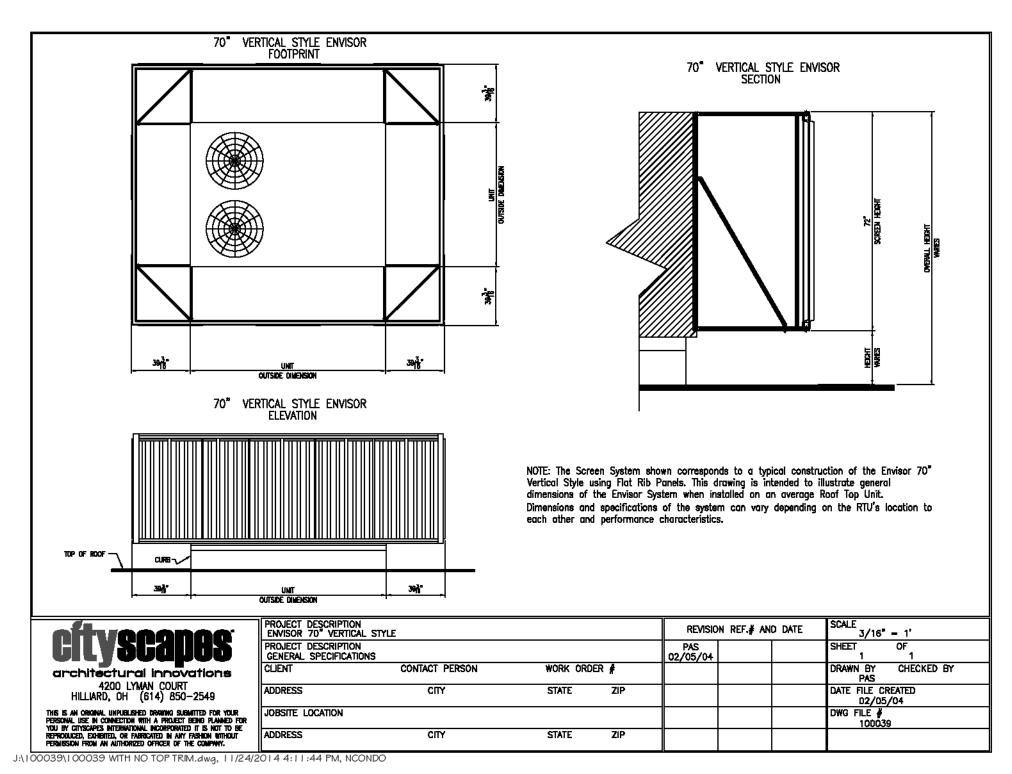
GRIL	LES, REGISTERS	AND DIFFUSERS	SCHE	DULE	1						
			NECK			FRAME	FRAME	FRAME			
TAG	MAKE & MODEL NUMBER	DESCRIPTION	SIZE	DUTY	COLOR	SIZE	TYPE	CONST	DAMPER	REMARKS	
D-2	TITUS OMNI-1	ARCHITECTURAL UNI-FLO DIFFUSER	10"ø	SUPPLY	WHITE	24"x24"	SURFACE	STEEL	YES	WITH TRIM	FRAME
D-4	TITUS 300RL-1	SIDEWALL 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		

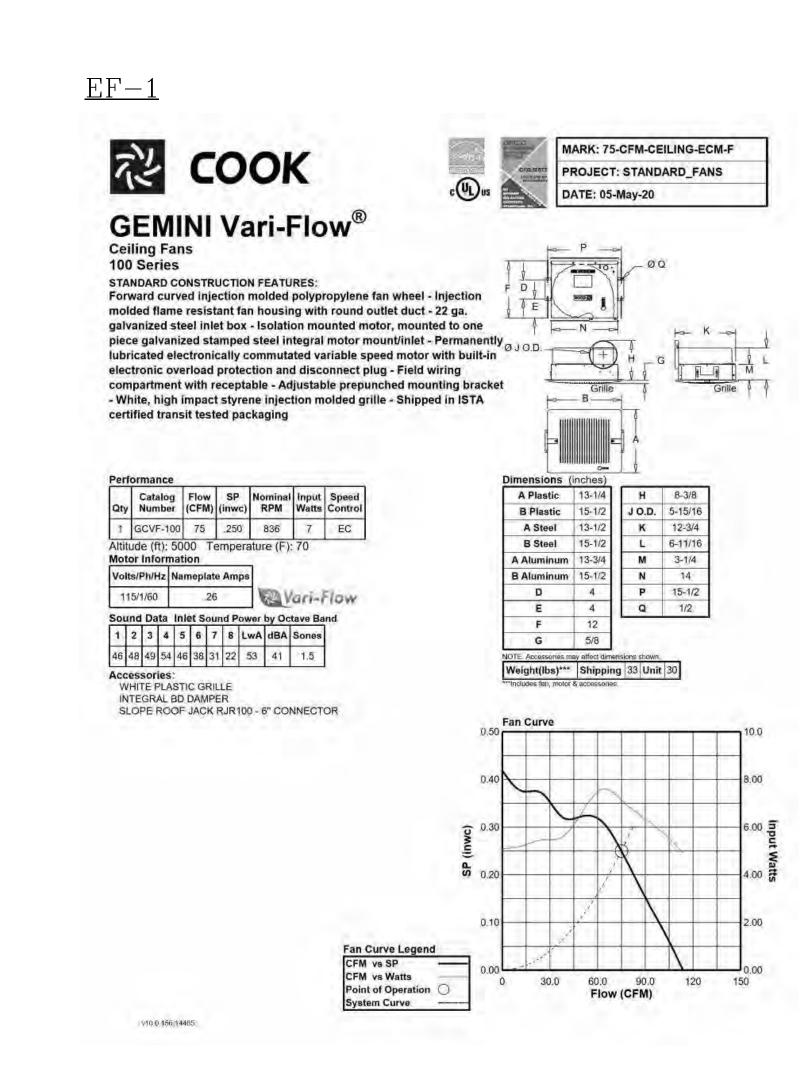
INSULATIO	ON		THICKNESS	DENSITY	TOTAL R	ACCOUSTICAL
KEY	INSULATION DESCRIPTION	TYPE	(IN)	(PCF)	VALUE	(NRC)
H01	RECTANGULAR DUCT IN CEILING SPACE WITH NO ROOF	LINER	1.0	1.5	4.2	0.70
H02	RECTANGULAR DUCT IN CEILING SPACE ADJACENT TO EXTERIOR ROOF	LINER	1.5	1.5	6.0	0.80
Н03	RECTANGULAR DUCT IN CEILING SPACE 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
Н08	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	~



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 SUPORTED - USE A 3" LINEAL TOP AND BOTTOM BAND PANELS SHALL BE LOUVER ACRYLICAP ABS TYPE

MAU-1 SCREEN





320 MAPLE ST, SUITE 11 FORT COLLINS, CO 80521 970-556-0570 PERMIT SET 20 SEPT 2024 DESIGN DEVELOPMENT PERMIT SET DRAWN BY: TMS CHECKED BY: TMS

11 OCT 2024

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HVAC SCHEDULES

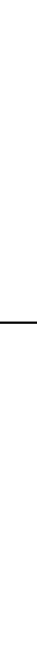
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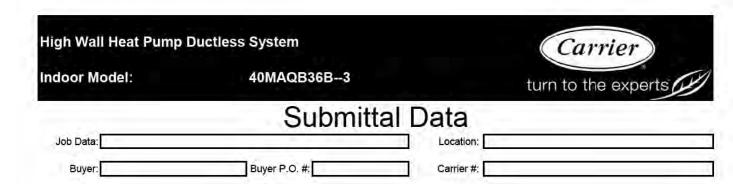
Accessories

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Replaces: SUB40MAQ-36-3-01







Performance Data Certified By STANDARD FEATURES · Modes: Cool, Heat, Dry, Fan, Auto Turbo Mode

 Four fan speeds Sleep Mode Up-Down Louver control (fixed or swing) Follow Me (senses temperature at handheld remote) Heating Setback (46° F Heating Mode) Quiet indoor operation Anti-corrosive fin coating CONTROLS: · Wireless Remote Controller included with indoor unit Wired Remote Controller KSACN0401AAA (7 Day

programmable) (Optional) LIMITED WARRANTY* Performance 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years *For residential applications. See warranty for full details.

System	Size	36	
System	Indoor Model		40MAQB36B-3
	ectrical Voltage, Phase, Cycle Power Supply Indoor unit MCA Wireless Remote Controller (°F/°C C	V/Ph/Hz	208/230-1-60
Electrical	Power Supply Indoor u	nit powered by	outdoor unit
	MCA	Α.	0.4
Contacts	Wireless Remote Controller (°F/°C	Standard	
Controls	Wired Remote Controller (°F/°C Co	Optional	
Operating	Cooling Indoor DB Min -Max °F(°C)		63~86 (17~30)
Range	Heating Indoor DB Min -Max	°F(°C)	32~86 (0~30)
District	Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)
Piping	Pipe Connection Size - Suction	in (mm)	5/8 (16)

For Compatibility See Product Data

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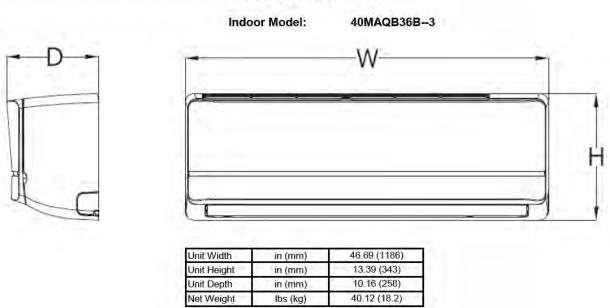
System	Size		36	7	Face Area	Sq. Ft	3.68	
System	Indoor Model		40MAQB36B-3	Indoor Coil	No. Rows		3	
	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	indodi Coli	Fins per inch		18	
Electrical	Power Supply Indoor u	nit powered by	outdoor unit		Circuits		7	
	MCA	A.	.0.4		Unit Width	in (mm)	46.69 (118	
Controls	Wireless Remote Controller (°F/°C Convertible)		Standard		Unit Height	in (mm)	13.39 (343	
Operating	Wired Remote Controller (°F/°C Convertible)		Optional		Unit Depth	in (mm)	10.16 (258	
Operating Range	Cooling Indoor DB Min -Max	°F(°C)	63~86 (17~30)		Net Weight	lbs (kg)	40.12 (18.	
	Heating Indoor DB Min -Max	°F(°C)	32~86 (0~30)		Number of Fan Speeds		4	
Distres	Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	Indoor	Airflow (lowest to highest)	CFM	520/620/780/	
Piping	Pipe Connection Size - Suction	Sound Pressure /lowe	Sound Pressure (lowest to highest)	dB(A)	39/45/50			
	_				Air throw Data	ft (m)	36 (11)	
					Moisture removal	Pint/h (L/h	11.7 (5.6)	
				/1	Field Drain Pipe Size O.I.	in (mm)	0.625 (16	

Replaces: SUB40MAQ-36-3-01 SUBJECT TO CHANGE WITHOUT NOTICE

Edition Date: 03/2018

Accessories 53DS-900--118 Condensate Pump (208/230V) Wired Remote Control with Timer Function KSACN0101AAA KSACN0401AAA Wired Remote Control 7 day Programmable* Wi-Fi™ Kit High Wall Mid-Tier KSAIF0301AAA 24V Interface Kit 230V Wireless Remote Control Locking Mount Kit 53DS-900--090 Note: *KSACN0401AAA Wired Remote Control 7 Day programmable compatible with High Walls Units starting with Senal Number 0216V10001.

**24V Interface compatible with High Walls Units starting with Serial Number 4316V10001. Construction View





Catalog No: SUB40MAQ-36-3-02 Copyright 2018 Carrier Corporation • 7310 W. Morris St. Indianapolis, IN 46231 Edition Date: 03/2018 Catalog No: SUB40MAQ-36-3-02

Page 2

Outdoor Unit Single Zone Heat Pump Ductless System 38MAQB36R--3 Submittal Data

STANDARD FEATURES

Variable Speed (Inverter)

Low Voltage Controls

Auto-Restart function

· Anti-corrosive fin coating

LIMITED WARRANTY*

*For residential applications.

See warranty for full details

Quiet operation

· Factory installed Base Pan Heater

Factory installed Crankcase Heater

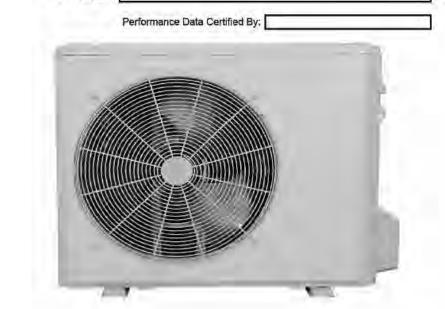
· Condenser High Temp Protection

Modes: Cool, Heat, Dry, Fan, Auto

10 year limited to original purchaser on compressor

and parts upon timely registration, otherwise 5 years

Refrigerant Leakage Detection



Contain	Size	36	-	Face Area	Sq. Ft.	8.0	
System	Outdoor Model	38MAQB36R3	-3	No. Rows	M Samil	3	
	Voltage, Phase, Cycle V/Ph/Hz MCA A.		208/230-1-60	Outdoor Coil	Fins per Inch		18
Electrical			25		Circuits		6
	MOCP - Fuse Rating	A.	35		Туре		Rotary Inverter
Operating Range	Cooling Outdoor DB Min - Max	°F(°C)	-13~122 (-25~50)		Model		ATF250D22UM
	Heating Outdoor DB Min - Max	°F(°C)	-13~86 (-25~30)	Compressor	Oil Type		VG74
	Total Piping Length	ft (m)	164 (50)		Oil Charge	FL Oz	23.6
Distant	Piping Lift	ft (m)	82 (25)		Rated Current	RLA	17.0
Piping	Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)		Unit Width	in (mm)	37.24 (946)
	Pipe Connection Size - Suction	in (mm)	5/8 (16)	4.11	Unit Height	in (mm)	31.89 (810)
	Refrigerant Type		R410A	Outdoor	Unit Depth	in (mm)	16.14 (410)
Refrigerant	Metering Device		EEV	Outdoor	Net Weight	lbs (kg)	147.3 (66.8)
	Charge	lbs (kg)	7.50 (3.40)		Airflow	CFM	2,130
Condensing u	init above or below indoor unit			1	Sound Pressure	dB(A)	60.5

Piping Adaptor Kit, to facilitate piping installation when matched with FMA/FMC/FMU Piping Adaptor Kit, to facilitate piping installation when matched with FV4 Copyright 2019 CAC/BDP • Atlanta, GA. 30339 Edition Date: 07/2019 Catalog No: 38MAR-36-3-06SB

Page 1

-37.78 in(959 mm)-7,38 In(188 pm) 8.36 (n(212 mm) 31.91 In __17,90 ln(455 mm)_ 0:47 ln(12 mm) 2.87 ln(73 mm) 0.94 ln(24 mm) 3.38 In(86 mm) 2.68 In(68 mm)

Construction View

38MAQB36R--3

Edition Date: 07/2019

Page 3

Replaces 38MAR-36-3-05SB

COMcheck Software Version COMcheckWeb **Mechanical Compliance Certificate**

Project Information

Energy Code: 2021 IECC Project Title: Bonchon and Brown Fort Collins, Colorado Location: Climate Zone: Addition Project Type:

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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

1 MAU-1 (Single Zone); Heating: 1 each - Central Furnace, Gas, Capacity = 552 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et

Cooling: 1 each - DX DOAS (Dehumidification), Capacity = 212 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 5.10 ISMRE, Required Efficiency = 4.00 ISMRE

Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00 Fan System: FAN SYSTEM 1 | MAU-1 -- Compliance (Brake HP and fan efficiency method) : Passes

Fans: FAN 1 Supply, Single-Zone VAV, 6075 CFM, 10.0 motor nameplate hp, 5.6 design brake hp (5.6 max. BHP), 1.00 fan energy index

Mechanical Compliance Statement

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. The proposed mechanical 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

Thomas Segelhorst - P.E. Name - Title

10 Oct 2024

Catalog No: 38MAR-36-3-06SB

Replaces.38MAR-36-3-05SB



Project Title: Bonchon and Brown Data filename:

Report date: 10/10/24 Page 4 of 13

BROWN DONKATSU 7 OLD TOWN SQUARE FORT COLLINS, CO 80524

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IN ASSOCIATION WITH:







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HVAC SCHEDULES

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.

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

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 ARRIVING 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.

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.

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, MATERALS, 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.

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. STARTER SHALL BE NEMA TYPE, AND SHALL INCLUDE PHASE MONITORING FOR MOTORS 5 HP AND LARGER.

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.

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

- 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.
- 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. POTABLE WATER PIPING BELOW GRADE SHALL BE TYPE K, SOFT DRAWN, COPPER WITHOUT JOINTS.
- 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 TROUGHS OR CHANNELS HUNG AT MAXIMUM 8' INTERVALS. UNSUPPORTED PEX MAY NOT EXCEED 32".
- POTABLE WATER PIPING ABOVE GRADE, LARGER THAN 2", SHALL BE TYPE L COPPER WITH SOLDERED COPPER FITTINGS AND NO LEAD SOLDER UNLESS NOTED OTHERWISE.
- PUSH-TO-CONNECT PLUMBING FITTINGS (I.E. SHARKBITE OR SIMILAR) AND PULLED TEE FITTINGS WILL NOT BE ACCEPTED.
- POTABLE WATER VALVES SHALL BE FULL PORT, BALL TYPE. 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.
- FOR ALL GAS FIRED EQUIPMENT. 13 INSTALL FULL SIZE CONDENSATE AND TRAP FOR ALL COOLING

12 INSTALL UNION, GAS COCK AND FULL SIZE 6" LONG DIRT LEG

- 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. FURNISH AND INSTALL WATTS SD-3 LEAD FREE DUAL CHECK
- BACKFLOW PREVENTION DEVICE WITH AIR GAP FOR CARBONATOR AND SODA SYSTEM. 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.
- 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" 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"

PLUMBING LEGEND

——CW—— COLD WATER PIPING

PIPE TEE DOWN

P8.1 PLUMBING SCHEDULES

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.

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——HW—— HOT WATER PIPING GATE VALVE ——HWC—— HOT WATER CIRC PIPING ——→ GAS COCK TW——TW—— TEMPERED WATER PIPING ———PRESS. RED. VALVE T & P RELIEF VALVE ——140—— 140° WATER PIPING ——180—— 180° WATER PIPING SOLENOID VALVE ---V--- VENT PIPING ——→ BALANCE VALVE WASTE PIPING CHECK VALVE GREASE WASTE PIPING SOW—SAND/OIL WASTE PIPING— PIPE CAP PERMIT SET RD—RD ROOF DRAIN PIPING PIPE CONTINUATION No. Description ORD OVERFLOW ROOF DRAIN ROOF DRAIN DESIGN DEVELOPMENT ——CD—— CONDENSATE PIPING FLOOR/GRADE CLEANOUT PERMIT SET FLOOR DRAIN/SINK ———G—— NATURAL GAS PIPING FIRE PIPING WALL CLEANOUT ——LP—— PROPANE PIPING PIPE ON THIS LEVEL (SOLID) —VAC— VACUUM PIPING PIPE ABOVE/BELOW CA—CA—COMPRESSED AIR PIPING ----- THIS LEVEL (DASHED) PIPE ELBOW DOWN /////Ø///// PIPE TO BE REMOVED PIPE ELBOW UP INVERT ELEVATION PIPE TEE UP

BALL VALVE



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

(N)

(E)

NEW

EXISTING

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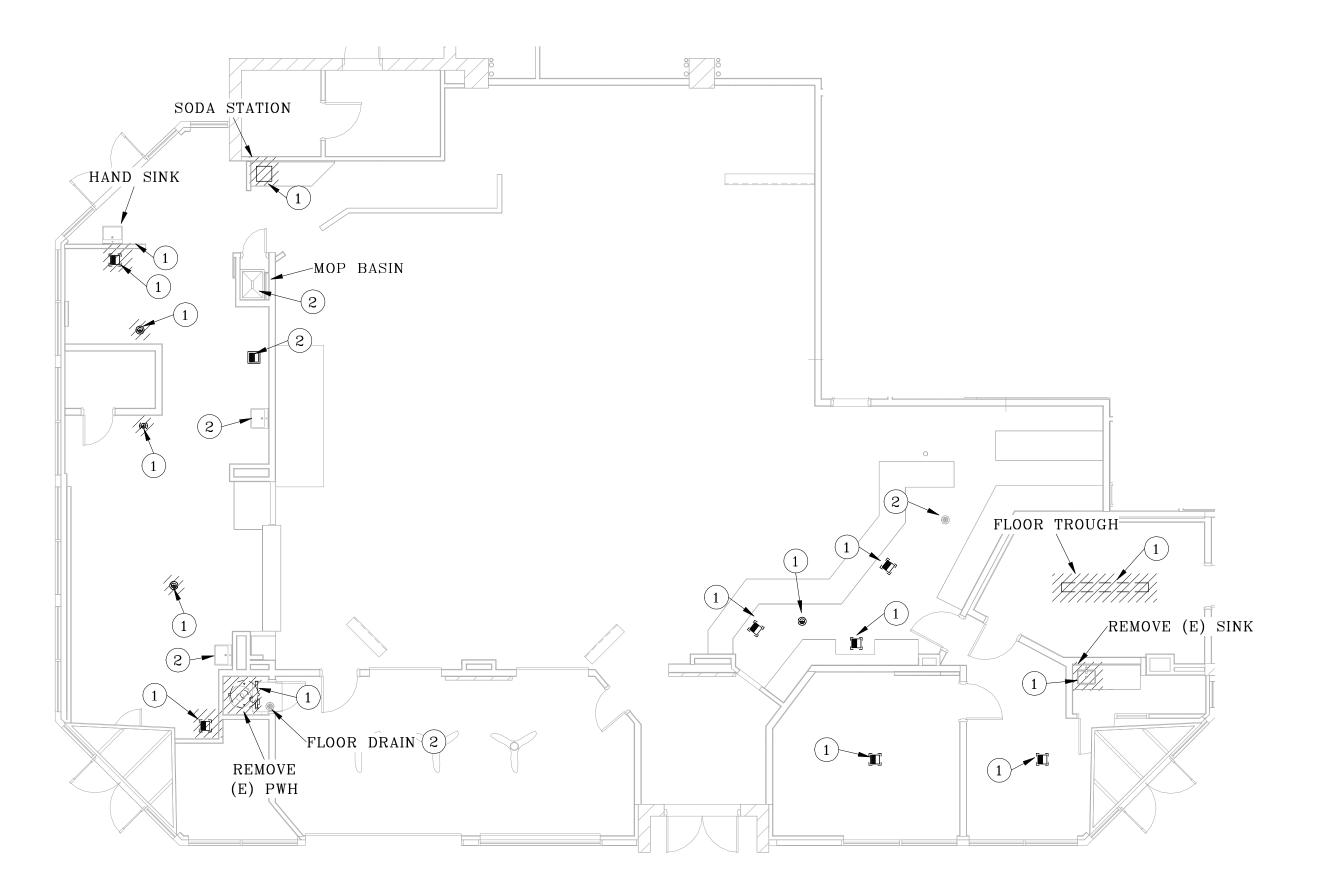
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PLUMBING NOTES, LEGEND, INDEX

DRAWING NUMBER:



PLUMBING DEMO

PLAN

FLAG NOTES:

DEMO EXISTING FIXTURE. CAP REMAINING PIPING BELOW FLOOR AND WALL AS NEEDED.

2 EXISTING PLUMBING FIXTURE TO REMAIN.

MBER: 00

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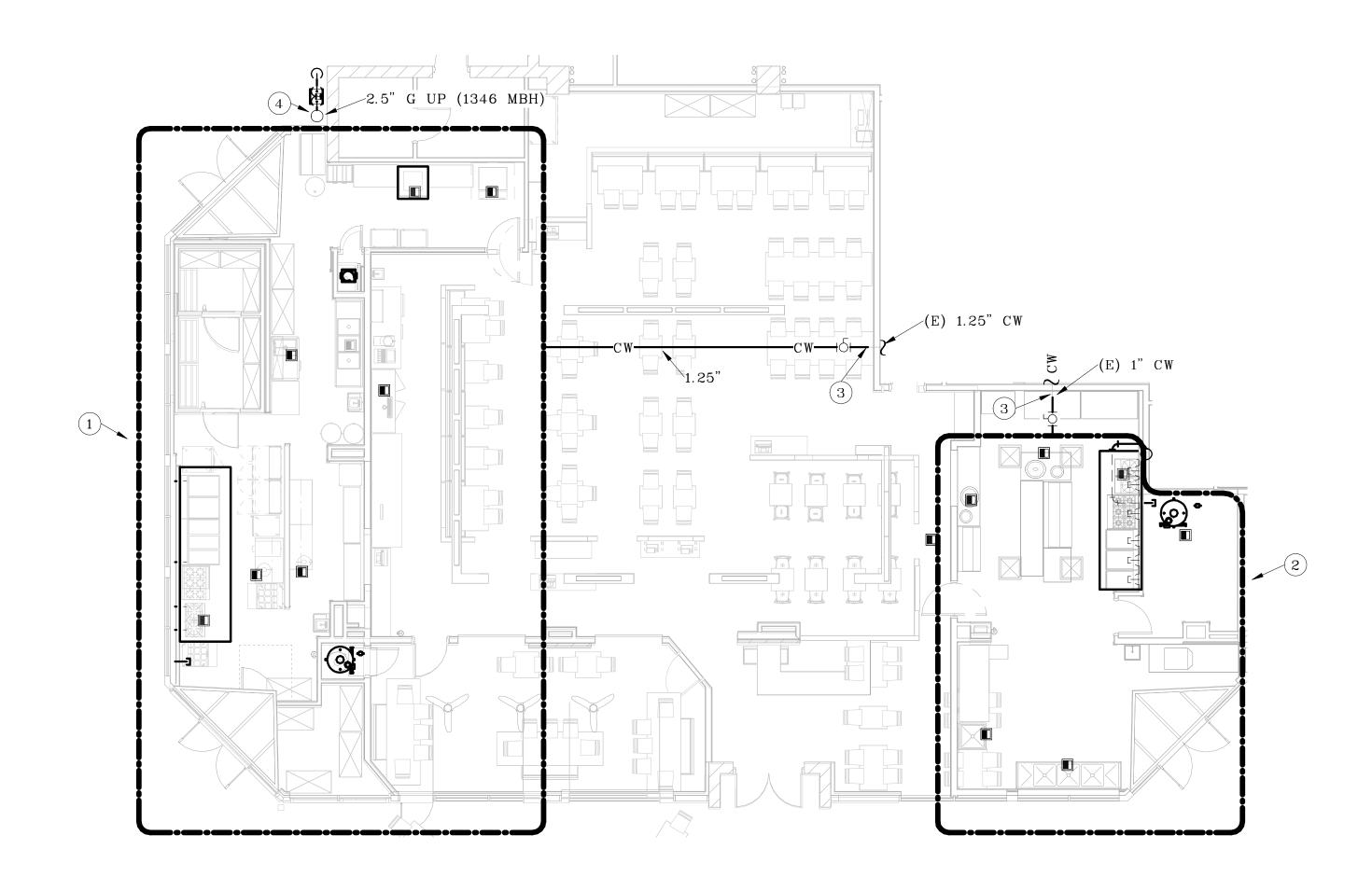
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PLUMBING DEMO PLAN

DRAWING NUMBER:

P1_1

THE EXISTING POTABALE 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.



PLUMBING FLOOR

PLAN

1/8" = 1'-0"

"""

1/8" = 1'-0"

FLAG NOTES:

- 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.

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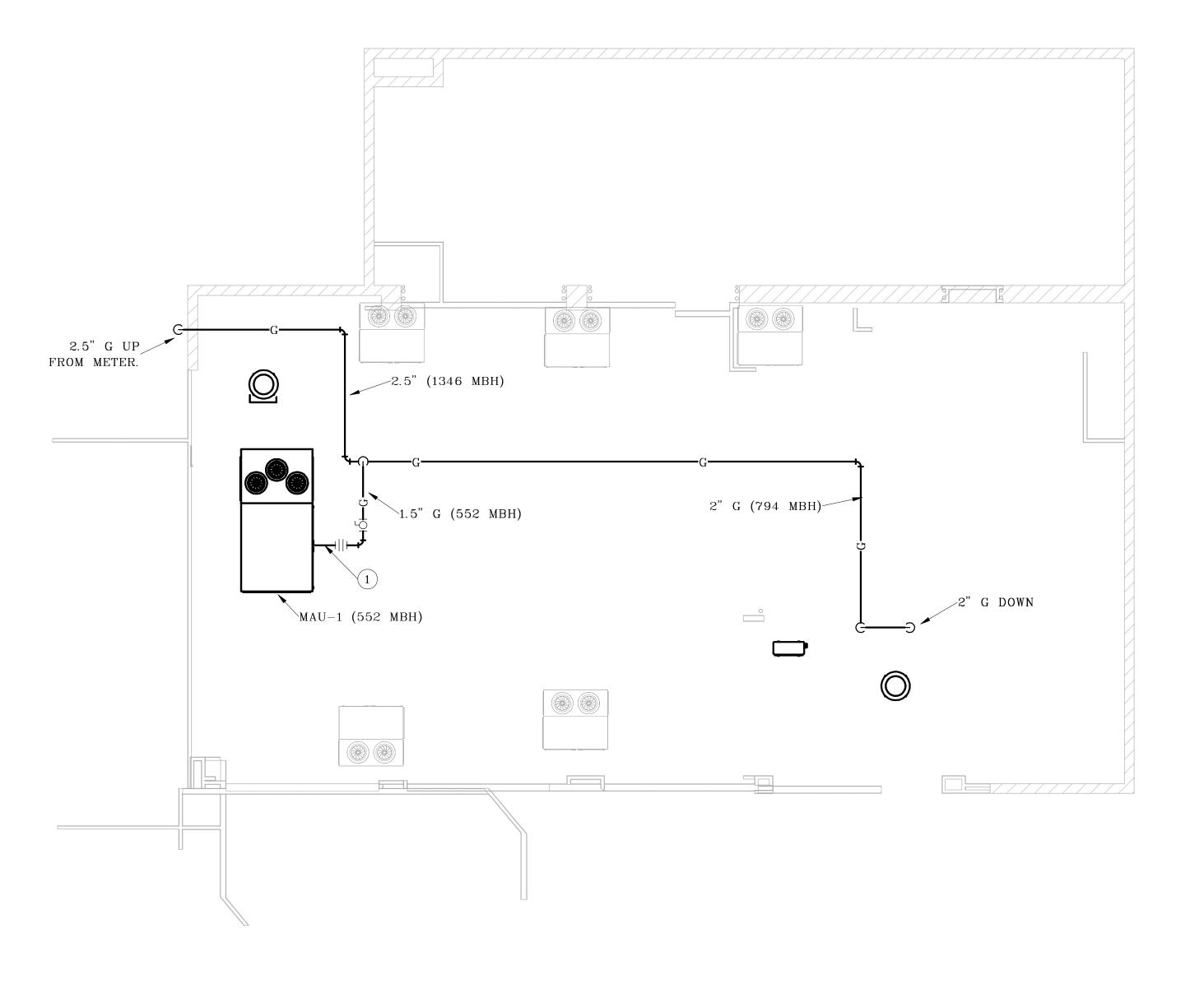
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PLUMBING FLOOR PLAN

P2.1





PLUMBING ROOF

PLAN

O''

1/8" = 1'-0"

1/8" = 1'-0"

1/8" = 1'-0"

1/8" = 1'-0"

1/8" = 1'-0"

1/8" = 1'-0"

FLAG NOTES:

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

UMBER: 00-0

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PLUMBING ROOF PLAN

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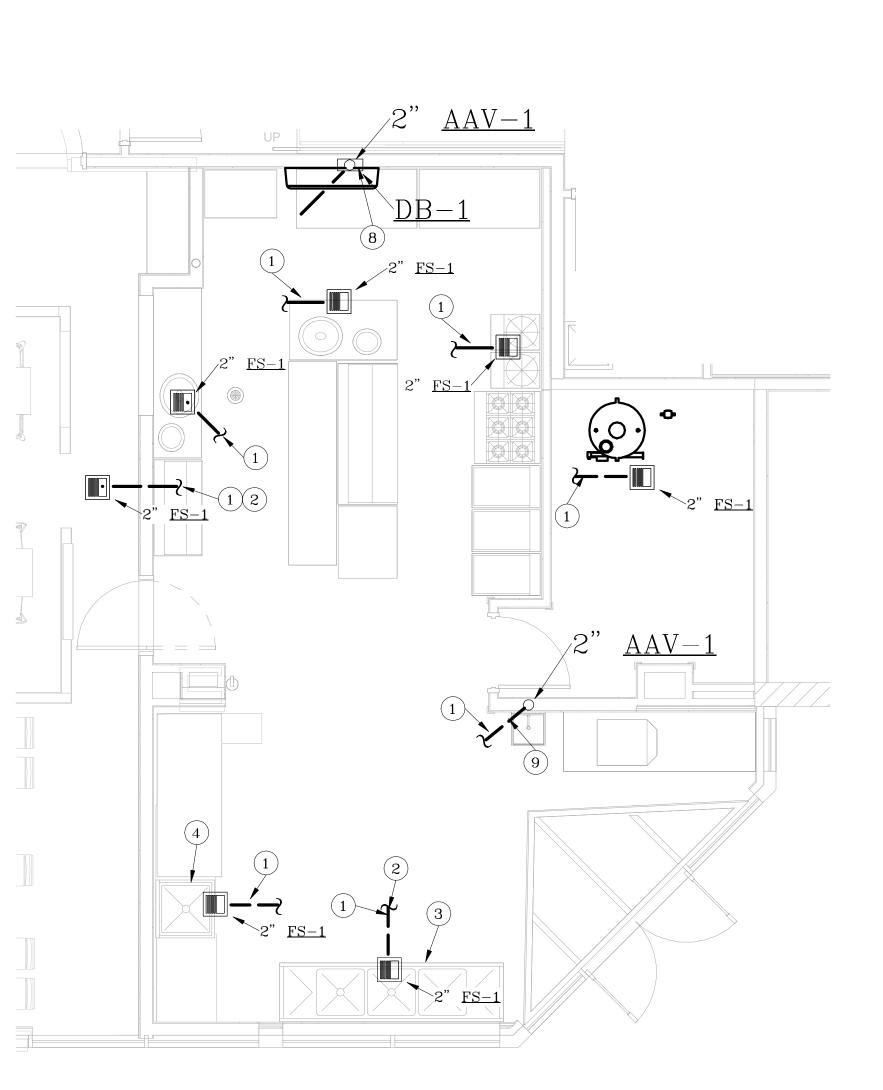
P2.2

NORTH KITCHEN

W & V PLAN

FLAG NOTES:

- TIE NEW DRAIN INTO THE EXISTING WASTE SYSTEM. VERIFY CONNECTION LOCATION PRIOR TO ANY WORK. FLOOR SAW-CUT AND PATCH BY OTHERS.
- 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.





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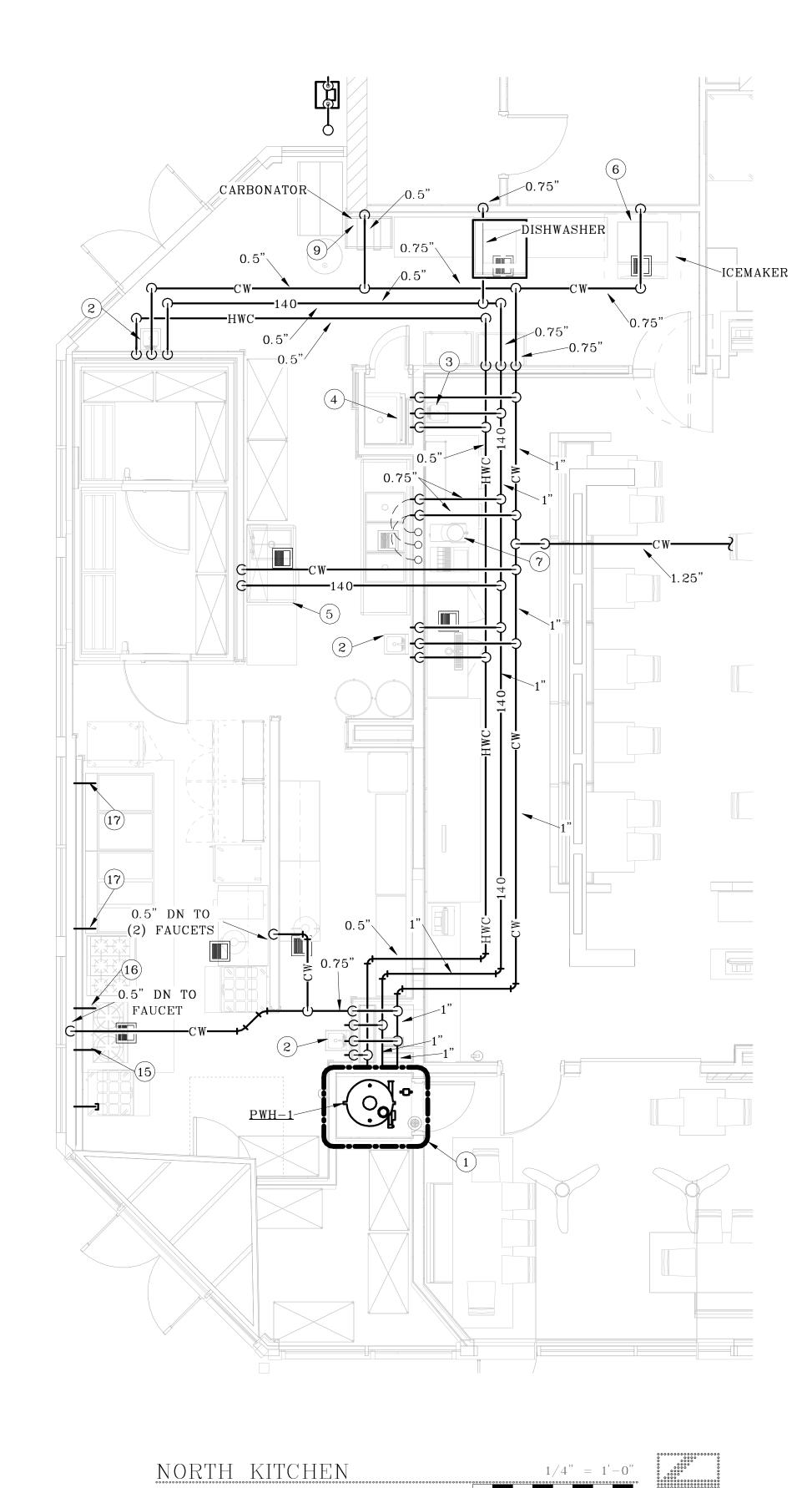


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PLUMBING ENLARGED PLANS W & V

P3.1

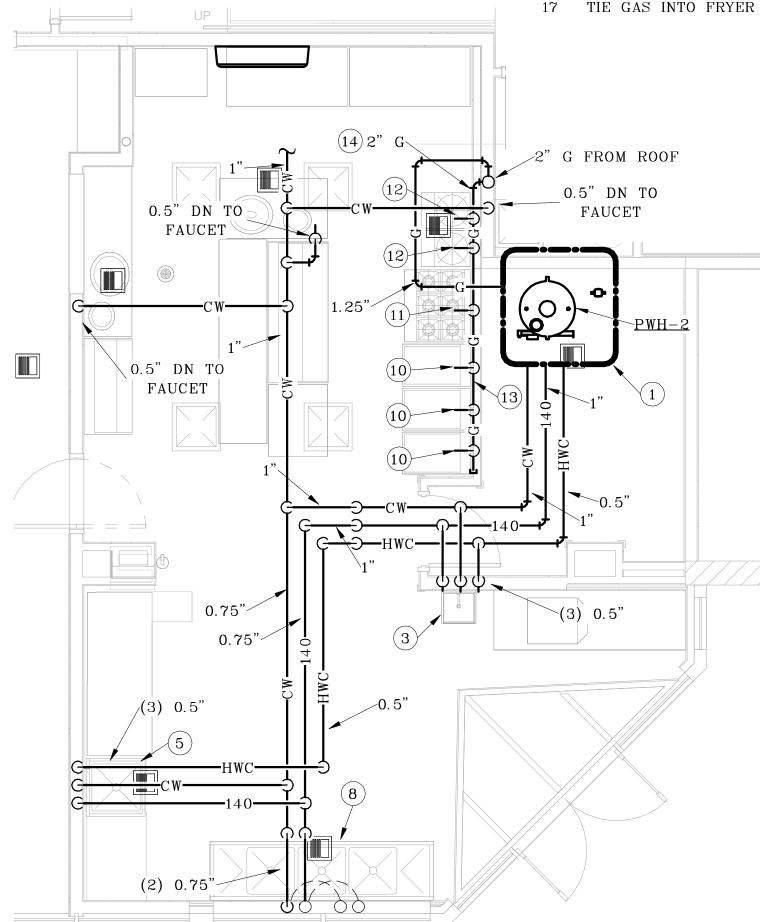


WATER PLAN

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.
- 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).
- 1" G TO STOCK RANGE, 80 MBH, WITH GAS VALVE AND FLEX CONNECTOR (NOT SHOWN).
- 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.



SOUTH KITCHEN
WATER PLAN

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

1/4" = 1'-0'



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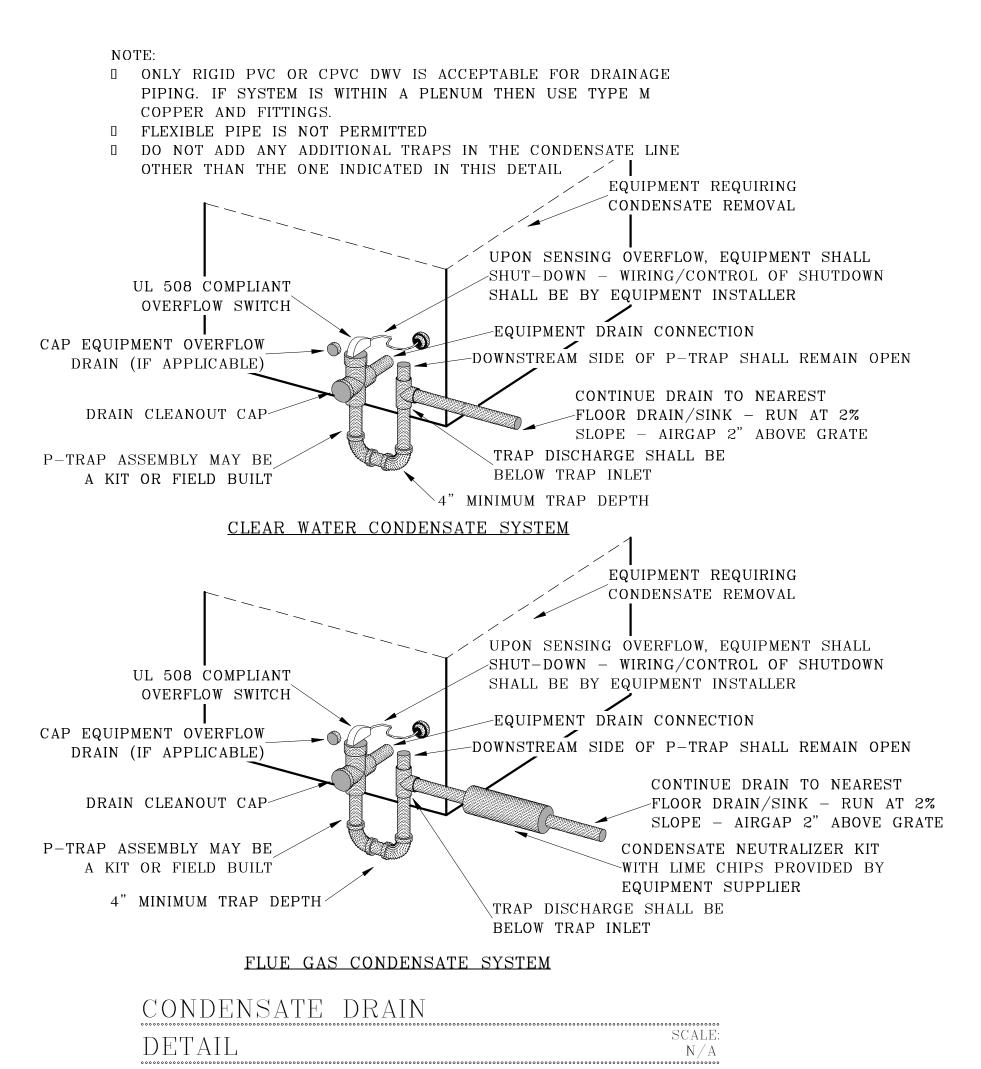


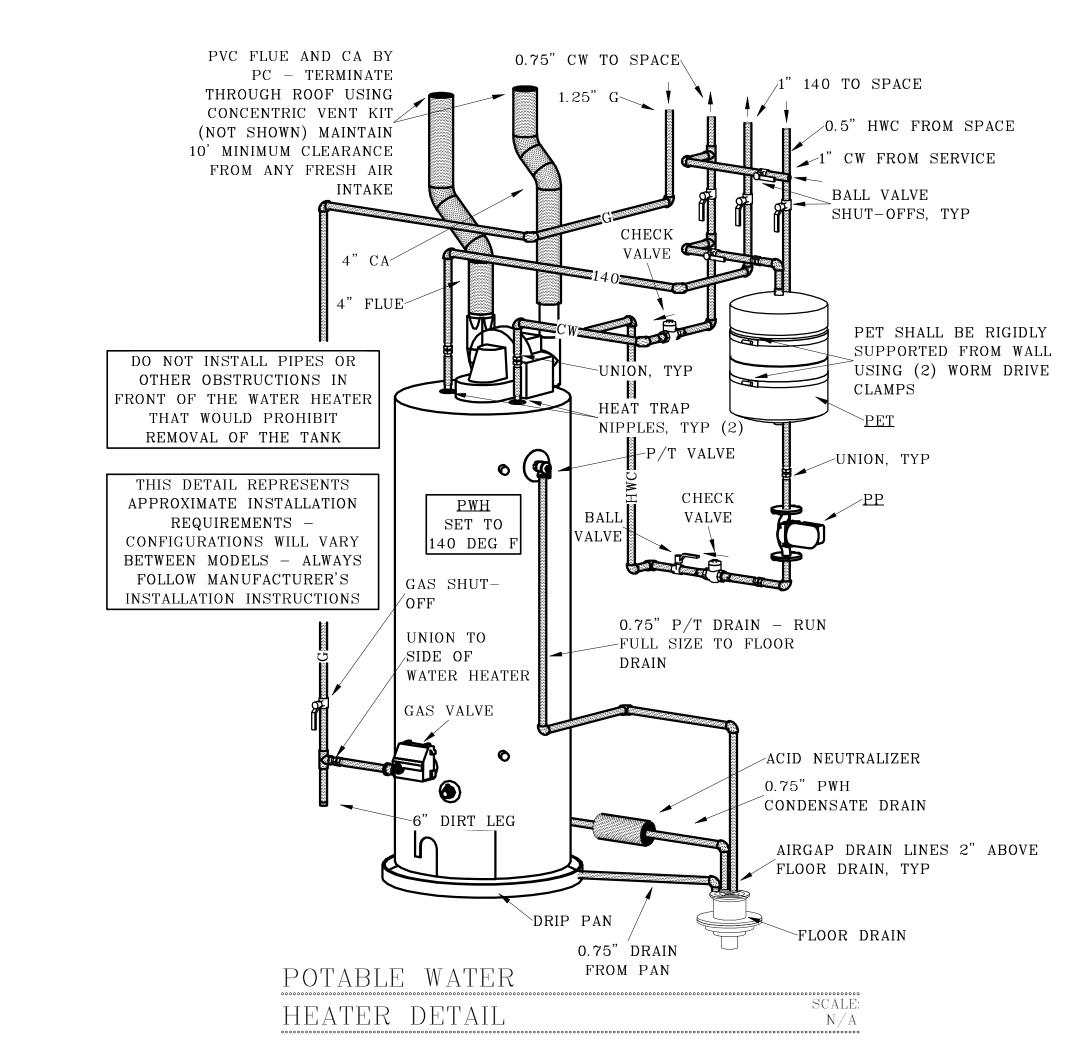
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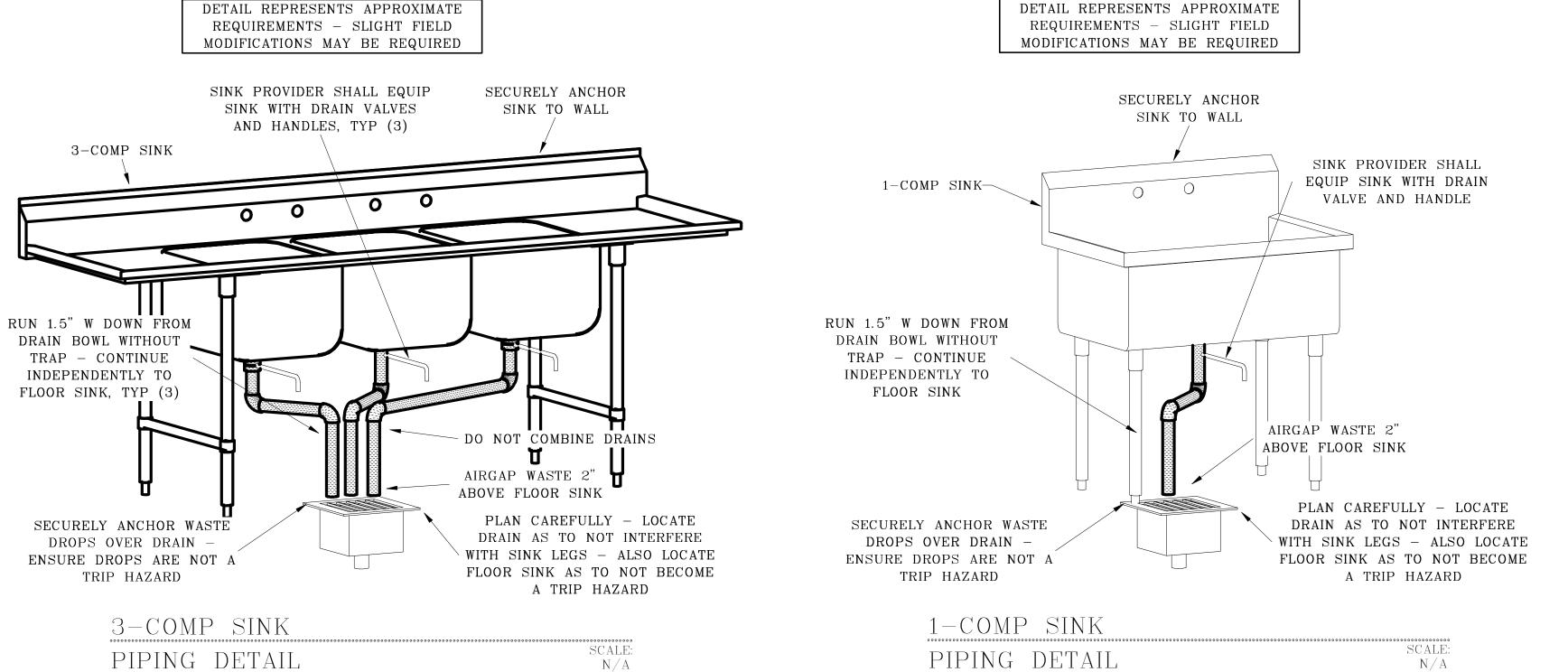
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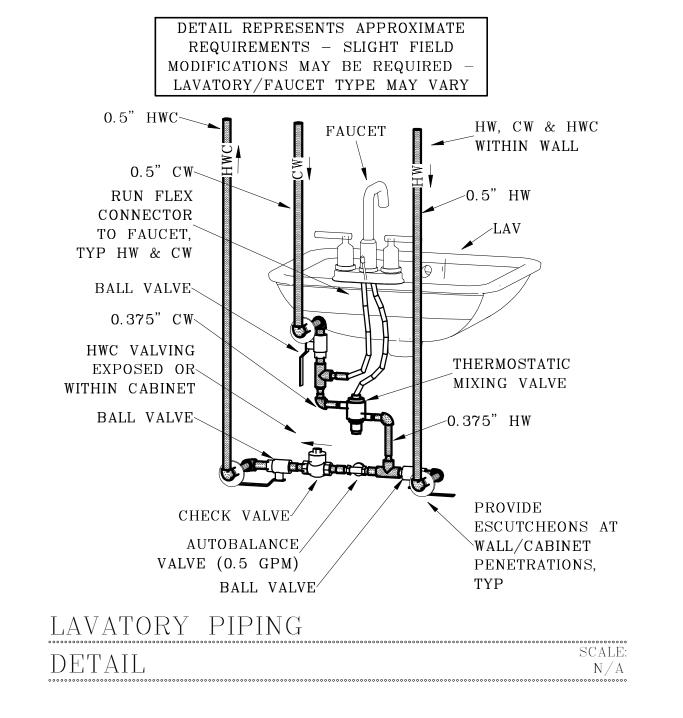
PLUMBING ENLARGED PLANS WATER

P3.2









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PLUMBING DETAILS

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TAG	FIXTURE SPECIFICATIONS
$\frac{1 \text{ AG}}{\text{AAV}-1}$	AIR ADMITTANCE VALVE - STUDOR MINI VENT 20301 ONLY (NO
AAV-1	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 EZ1-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 O 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

PLUMBING FIXTURE SCHEDULE

FIXTURE

PIPE SUPPORT SCH	IEDULE	
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 \leq 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



CYCLONE® Mxi MODULATING

MODULATING BURNER ADVANCES THE CYCLONE TO HIGHER LEVELS OF EFFICIENCY

properly protect the tank

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

INTELLIGENT CONTROL SYSTEM WITH Powered anodes are non-sacrificial TOUCH SCREEN DISPLAY AND ICOMM

• Automatically adjusts output needed to

- CONNECTIVETY ONBOARD* Exclusive A. O. Smith designed color touch display control system
- Provides detailed water heater status Information Precise temperature control adjustable from 90
 Heat exchanger coil is glassed both externally
- to 180 degrees Built-in diagnostics
- Run history information
- . *Cyclone Mxi models manufactured March 1, 2018 to present come standard with iCOMM

 • Vents vertically or through a sidewall Wi-Fi connectivety onboard. Remotely monitor • Front located exhaust and condensate and adjust the water heater via the A. O. Smith connections allow for easy install and access app. No charge connectivety using Wi-Fi or
 • Vents with low cost PVC Schedule 40 intake Ethernet connection.
- Intelligent Demand Response (IDR) feature senses large water draws and automatically adjusts the differential setpoint. This feature increases the hot water available when it is needed the most.

SUBMERGED COMBUSTION CHAMBER, WITH HELICAL HEAT EXCHANGER COIL • Canadian installations require ULC \$636 PVC/

- Positioned in center of tank, surrounded by water to virtually eliminate radiant heat loss from chamber Direct spark ignition
- 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

 • For complete warranty information, consult MODELS Provides long-lasting tank protection in varying

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water conditions

CPVC, ULC 5636 Polypropylene and AL29-4C

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PRE-MIX POWERED BURNER Spiral heat exchanger keeps hot burner gases
 Down-fired pre-mix burner provides optimum efficiency and quiet operation

HIGH EFFICIENCY MODULATING

stainless steel vent materials

through single opening, using concentric vent

stainless steel pipe for intake and exhaust

· Top-mounted burner position prevents condensation from affecting burner operation 3-YEAR LIMITED TANK / 1-YEAR LIMITED PARTS WARRANTY

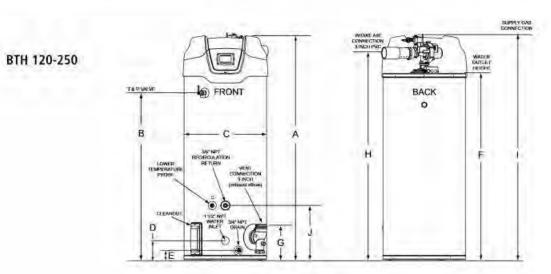
written warranty or go to hotwater.com

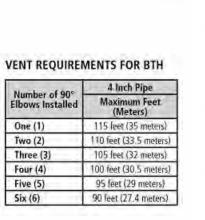


BTH-120(A) THROUGH BTH-500(A) MODEL SHOWN: BTH-199(A) SERIES 300/301



A05CG10210





* Center line of water outlet on top of the water heaters is approximately 7 inches from the front edge of the water heater.

44.47	S						Dime	nsions					200	Approx.	Approx.
Model Number	Approx. Capacity		A	В	c	D	E	F	G	H	ì	j	lb/kg	Shipping Weight Std	Weight ASME
DTU 400/4)	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
TH-199(A)	Liters	379	194.9	143.2	70.5	16	7.62	162.6	28.6	177.8	191.8	46.36	kg	237	251

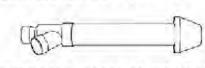
Propane gas models available Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

RECOVERY CAPACITY

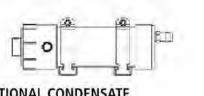
"A" in model represents ASME construction

A. V.	A STATE OF THE PARTY OF THE PAR			B	BIU/HR KV				/V					
BTH-199(A)	Natural/Propane 199,900					99,900			58		97%			
200.11				U,S.	GALLONS/	HR AND LI	TRES/HR A	T TEMPER	ATURE RIS	E INDICTAT	ED			
Model Number	Approx.	°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
1393015.01	Capacity	°C	17°C	22°C	28°C	33°C	39°C	44°C	50°C	56°C	61°C	67°C	72°C	78°C
BTH-199(A)	100 U.S. Gals.	GPH	783	588	470	392	336	294	261	235	214	196	181	168
	379 Litres	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



NEUTRALIZATION KITS

• BTH-120-300 kit p/n 100289339

BONCHON & BROWN DONKATSU

> 7 OLD TOWN SQUARE FORT COLLINS, CO 80524



VAUGHT FRYE LARSON architects

Strength in design. Strength in partnership. Strength in community.

419 Canyon Avenue, Suite 200 Fort Collins, CO 80521 ph: 970.224.1191 www.vfla.com

IN ASSOCIATION WITH:



PERMIT SET

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

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PLUMBING SCHEDULES

DRAWING NUMBER:

P8.1

RECEPT. FURNISHED WITH KITCHEN EQUIP. SAFETY—TYPE DUPLEX OUTLET SWITCHED RECEPTACLE HALF SWITCHED RECEPTACLE DOUBLE DUPLEX RECEPTACLE FLUSH FLOOR RECEPTACLE, DUPLEX 1 60A SPECIAL EQUIPMENT RECEPTACLE

₩₽ WEATHERPROOF RECEPTACLE

₱16 ISOLATED GROUND RECEPTACLE

₩GFI GROUND FAULT RECEPTACLE

 Φ_{DF} DRINKING FOUNTAIN

™ LOCKING RECEPTACLE RECEPT. FURNISHED WITH KITCHEN EQUIP. TELEPHONE OUTLE **▼**w TELEPHONE OUTLET (W=WALL) COM/DATA OUTLET

FLUSH FLOOR COM/DATA OUTLET ■ TP TELEPOWER POLE (T=telephone, P=power, C=computer) JUNCTION BOX \bigcirc_f JUNCTION BOX (FLOOR)

JUNCTION BOX (CEILING) JUNCTION BOX FURNISHED WITH KITCHEN EQUIPMENT WALL JUNCTION BOX

PULL (JUNCTION) BOX UNDERFLOOR JUNCTION BOX TELEVISION OUTLET

FIRE ALARM-REFER TO FIRE ALARM SYSTEMS

FCP FIRE ALARM CONTROL PANEL FSA FIRE SYSTEM ANNUNCTATOR (3-LCDANN) FTR FIRE ALARM TRANSPONDER OR TRANSMITTER FGP FIRE ALARM GRAPHIC PLAQUE

ESR ELEVATOR STATUS/RECALL FPI FIRE PUMP STATUS INDICATOR FAC FIRE ALARM COMMUNICATOR EGS EMERGENCY GENERATOR STATUS

HCP CONTROL PANEL FOR HVAC: EXHAUST STAIRWELL PRESSURIZATION OR SIMILAR EQUIPMENT PULL STATION XXX= DENOTES DETECTORS ADDRESS

FIRE SERVICE OR EMERGENCY TELEPHONE JACK HEAT DETECTOR (THERMAL DETECTOR)

R/F R/F=RATE OF RISE AND FIXED TEMPERATURE XXX= DENOTES DETECTORS ADDRESS SMOKE DECTOR
P/I=COMBINATION PHOTELECTRIC/ IONIZATION

XXX= DENOTES DETECTORS ADDRESS SOUNDER BASE SMOKE DETECTOR W/ RELAY BASE SMOKE DUCT DETECTOR/SWITCH

XXX= DENOTES DETECTORS ADDRESS VALVE WITH TAMPER DETECTOR /SWITCH XXX= DENOTES DETECTORS ADDRESS

□ SPEAKER ONLY STROBE ONLY DEVICE (INTERGRITY SERIES XX= CANDELA RATING OF STROBE DEVICE

XXX= DENOTES DETECTORS ADDRESS

XX= CANDELA RATING OF

DOOR HOLDER - SMOKE DAMPER

COMBINATION FIRE/SMOKE DAMPER

8 → FAN (ARROW INDICATED DIRECTION OF FLOW) FIRE DEPARTMETN ACCESS POINT FIRE DEPARTMENT KEY BOX

ROOF ACCESS FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM RESET PANEL FIRE ALARM COMMUNICATION PANEL SMOKE CONTROL AND PRESSURATION PANEL SPRINKLER SYSTEM WATER FLOW BELL

SMOKE VENT ELECTRIC SHUT OFF DOMESTIC WATER SHUT OFF GAS SHUT OFF AIR CONDITIONG EQUIPMENT ROOM

ELECATOR EQUIPMENT ROOM EMERGENCY GENERATOR ROOM FIRE PUMP ROOM TELEPHONE EQUIPMENT ROOM

BOILER ROOM ELECTRICAL/TRANSFORMER ROOM

CON TROL

THERMOSTAT (line voltage U.O.N. furnished by DIV. 15 U.O.N.) (line voltage U.O.N. furnished by DIV. 15 U.O.N.)

PHOTOCELL (voltage as required) TIME CLOCK (24 hour U.O.N.) PUSHBUTTON STATION (number of buttons indicated)

C1 LIGHTING CONTACTOR IRRIGATION CONTROLLER (120 volt

GENERAL NOTES:

WHERE ADEQUATE RADIO COVERAGE (AS DEFINED BY THE FIRE CODE OFFICAL) CANNOT BE ESTABLISHED WITHIN THIS BUILDING THEN A NEW PUBLIC SAFETY RADIO AMPLIFICATION SYSTEM SHALL BE INSTALLED. DESIGN-BUILD 'RADIO AMPLIFICATION' SYSTEM IS REQUIRED TO COVER THE ENTIRE BUILDING BOTH NEW & EXISTING. IF REQUIRED AFTER TESTING THE AMPLIFIER SHALL BE LOCATED ADJACENT TO THE NEW FIRE ALARM CONTROL PANEL. NOTE THAT FIRE ALARM CONTROL PANEL TO BE PROVIDED WITH SPARE CONTACTS TO ALLOW FOR CONNECTION OF SYSTEM TO FIRE ALARM UNIT.

WALL/UNDER CABINET FIXTURE

EXIT FIXTURE (arrows indicate

INCANDESCENT CEILING MOUNTED

NIGHT LIGHT (on 24 hours)

FIXTURE ON EMERGENCY CIRCUIT

RECESSED DOWNLIGHT

KEYLESS LAMPHOLDER

TRACK LIGHT FIXTURE

POLE TOP MTD. FIXTURE

H.I.D. CEILING FIXTURE

EXISTING SINGLE-POLE SWITCH

EXISTING THREE-WAY SWITCH

\$\Pi comb. switch/duplex receptacle

EMERGENCY EGRESS LIGHT

(number of heads shown)

POLE MTD. FIXTURE

WALL MTD. FIXTURE

SWITCHES

SINGLE-POLE SWITCH

\$ SWITCH WITH PILOT LIGHT

\$LV LOW-VOLTAGE SWITCH

\$wp WEATHERPROOF SWITCH

DESIGNATIONS

X KITCHEN EQUIPMENT FLAG NOTE

X MEDICAL EQUIPMENT FLAG NOTE

DEVICE ABOVE COUNTER

<u>MECHANICAL</u>

CEILING EXHAUST FAN

EBBH === ELECTRIC BASEBOARD HEATER

SERVICE and EQUIPMENT

DISTRIBUTION TYPE PANELBOARD

TRANSFORMER. PAD MOUNTED

TRANSFORMER, DRY (KVA shown)

DISCONNECT SWITCH (fuse size shown)

MAGNETIC STARTER (BY DIV. 15 U.O.N.)

potential transformers where required)

COMB. STARTER (BY DIV. 15 U.O.N.)

PANELBOARD, SURFACE MOUNTED

PANELBOARD, FLUSH MOUNTED

CURRENT TRANSFORMERS (with

TELEPHONE TERMINAL BOARD

TELEPHONE TERMINAL CABINET

(surface unless otherwise noted)

GROUND CONNECTION PER N.E.C.

FUSTAT, SWITCHED PLUG-FUSE BOX

OR UTILITY METER, AS REQUIRED

@ OR O GENERATOR, KW SHOWN

WIREWA Y

CIRCUIT BREAKER

CIRCUITRY and RACEWAY

→ 1,3 HOME RUN (with circuit numbers)

——PM—— PLUGMOLD #V20GB612 Unless noted

→ HOME RUN (THRU CONTROL DEVICE)

——— END OF RUN, CAP AND STAKE

VOLUME CONTROL

MICROPHONE OUTLET

 ∇_I INTERCOM OUTLET

SOUND and SIGNAL

SPEAKER

BUZZER

CHIME

OR ATS TRANSFER SWITCH

-----O CIRCUIT UP

----> CIRCUIT DOWN

ECH ELECTRIC CABINET HEATER

COMPUTER DESIGNATED OUTLET

DEVICE DESIGNATED WEATHER PROOF

MOTOR AND CONNECTION, HP SHOWN

DHP WALL TYPE EXHAUST FAN, HP SHOWN

UON UNLESS OTHERWISE NOTED

DEVICE IN CEILING

AFF ABOVE FINISHED FLOOR

FLR DEVICE IN FLOOR

MWW PIPE HEAT TRACING

FIFCTRIC UNIT HEATER

WATER HEATER

PADDLE FAN

OS OCCUPANCY SENSOR

\$L LOCKING SWITCH

\$ DIMMER SWITCH

\$K KEY SWITCH

\$_T TIME SWITCH

LS LIGHT SENSOR

REVISION NOTE

X REFERENCE NOTE

FEEDER NUMBER

\$2 DOUBLE-POLE SWITCH

\$3 THREE-WAY SWITCH

\$4 FOUR-WAY SWITCH

directional arrows)

TRACK LIGHT

Ю

CODES AND REGULATIONS: COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES. **EXAMINATION OF PREMISES:**

EXAMINE THE PREMISES PRIOR TO BIDDING AND BECOME FULLY

FAMILIAR WITH EXISTING CONDITIONS.

SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, LICENSES AND INSPECTIONS IN CONNECTION WITH THE ELECTRICAL WORK.

CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT FITTING OF ALL MATERIALS, EQUIPMENT, ETC. IN BUILDING. ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB. INSTRUCTIONS SUCH AS "PROVIDE. . . . " SHALL MEAN CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLING OF. . . ., COMPLETE IN EVERY RESPECT.

GUARANTEE ALL MATERIALS, LABOR. WORKMANSHIP AND THE SUCCESSFUL OPERATION OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.

IT IS THE INTENT OF THE SPECIFICATIONS TO ESTABLISH QUALITY STANDARDS OF MATERIALS AND EQUIPMENT INSTALLED. SPECIFIC ITEMS ARE IDENTIFIED BY MANUFACTURER, TRADE NAME OR CATALOG DESIGNATION. SHOULD CONTRACTOR PROPOSE TO FURNISH MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED AS PERMITTED BY THE "OR APPROVED EQUAL"CLAUSES, HE SHALL SUBMIT A WRITTEN REQUEST IN DUPLICATE, AT LEAST FIVE CALENDAR DAYS PRIOR TO BIDDING DATE FOR ANY OR ALL SUBSTITUTIONS TO ARCHITECT ALONG WITH A STAMPED SELF ADDRESSED RETURN ENVELOPE. SUCH A REQUEST SHALL BE ACCOMPANIED WITH COMPLETE DESCRIPTIVE AND TECHNICAL DATA AND ALL OTHER INFORMATION DEEMED NECESSARY BY ARCHITECT FOR EVALUATION. SUBSTITUTIONS SUBMITTED FOR APPROVAL SHALL LIST ITEMS AS SPECIFIED WITH THE ALTERNATE SUBSTITUTION. WHERE SUBSTITUTIONS ALTER THE DESIGN, CONDUIT, WIRING OR SPACE REQUIREMENTS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL INCLUDE ITEMS OF COST FOR THE REVISED DESIGN AND CONSTRUCTION.

SHOP DRAWINGS (ELECTRONIC VERISION): A. FURNISH SHOP DRAWINGS TO ARCHITECT FOR THE FOLLOWING:

> DISTRIBUTION EQUIPMENT WIRING DEVICES & COVERPLATES.

LIGHTING EQUIPMENT.

COORDINATE ALL ELECTRICAL INSTALLATIONS AND ROUGH-IN AS

DELIVERY AND STORAGE OF MATERIALS COORDINATION: MAKE PROVISIONS FOR DELIVERY AND SAFE STORAGE OF ALL MATERIALS AND MAKE THE REQUIRED ARRANGEMENTS WITH OTHER CONTRACTORS ON THE JOB FOR THE INTRODUCTION INTO THE BUILDING OF EQUIPMENT TOO LARGE TO PASS THROUGH FINISHED OPENINGS. WHERE MATERIALS ARE INDICATED TO BE FURNISHED BY OTHERS TO CONTRACTOR FOR INSTALLATION, THESE MATERIALS SHALL BE CHECKED AND THEIR DELIVERY PROPERLY RECEIPTED. ASSUME FULL RESPONSIBILITY FOR THE STORAGE AND SAFE KEEPING OF SAID

<u>ACCEPTANCE DEMONSTRATION:</u> UPON COMPLETION OF THE WORK, AT A TIME TO BE DESIGNATED BY ARCHITECT, CONTRACTOR SHALL DEMONSTRATE TO OWNER THE OPERATION OF THE ENTIRE ELECTRICAL INSTALLATION, INCLUDING ANY AND ALL SPECIAL SYSTEMS PROVIDE UNDER THIS CONTRACT.

MATERIALS FROM TIME OF DELIVERY UNTIL FINAL ACCEPTANCE.

REMOVE ALL MATERIALS. SCRAP. ETC.. RELATIVE TO THE ELECTRICAL INSTALLATION AND LEAVE THE PREMISES IN A CLEAN, ORDERLY CONDITION. ANY COSTS TO OWNER FOR CLEAN UP OF THE SITE WILL BE CHARGED AGAINST CONTRACTOR. CLEAN ALL ELECTRICAL EQUIPMENT AND MATERIALS OF ALL FOREIGN MATTER. CLEAN ALL LIGHT FIXTURES USING ONLY METHODS AND MATERIALS AS RECOMMENDED BY MANUFACTURER.

TEMPORARY WIRING: REMOVE ALL TEMPORARY WIRING, OUTLETS, ETC., COMPLETE.

DELIVER "AS-BUILT" DRAWINGS TO OWNER.

BE RESPONSIBLE FOR ALL TRENCHING AND BACKFILL FOR ELECTRICAL WORK. BACKFILLING SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. BE RESPONSIBLE FOR ALL NEW AND EXISTING BURIED UTILITIES.

COORDINATE ALL ELECTRICAL SERVICE OUTAGES WITH OWNER AND GENERAL CONTRACTOR. PLAN ALL WORK SO THAT DURATION OF OUTAGE IS KEPT TO AN ABSOLUTE MINIMUM. PROVIDE TEMPORARY WIRING AS NECESSARY AND AS REQUIRED IN ORDER TO MAINTAIN CONTINOUS SERVICE FOR OWNER'S OPERATION WHERE OUTAGE MUST BE ACCOMPLISHED DURING A TIME WHEN POWER IS DEEMED NECESSARY BY OWNER, OR WHEN OUTAGE IS TO BE OF AN EXTENDED DURATION, MAXIMUM 6 HOURS. ALL OUTAGE TIME AND SCHEDULING OF SAME SHALL BE AS APPROVED BY OWNER AND SHALL CONFORM TO OWNER'S SCHEDULES.

THE COMPLETE SYSTEM SHALL BE LOAD BALANCED TO WITHIN 10-15 PERCENT PER PHASE.

ELECTRICAL CONTRACTOR SHALL ASSURE AND BE RESPONSIBLE FOR PROPER PHASE ROTATION OF ALL MOTORS, COMPRESSORS, AND OTHER THREE PHASE EQUIPMENT PRIOR TO ENERGIZING EQUIPMENT. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE AND COORDINATE PROPER PHASE ROTATION CONNECTIONS MADE BY THE SERVING UTILITY COMPANY PRIOR TO ENERGIZING MAIN SERVICE EQUIPMENT.

1. CONDUITS, MINIMUM SIZE 1/2", SHALL BE PROVIDED FOR ALL WIRING RUNS AS INDICATED AND SPECIFIED. ALL SIZES SHALL BE PER NEC. USE PVC SCHEDULE 40 FOR ALL UNDERGROUND FEEDERS AND FOR ALL RUNS IN OR UNDER THE GROUND FLOOR SLAB. USE GRC WHERE REQUIRED BY CODE, UTILITY COMPANY, OR FOR MECHANICAL PROTECTION AND AS SHOWN. USE EMT FOR ALL OTHER RUNS. FINAL CONNECTIONS TO MOTORS AND OTHER VIBRATING OR ROTATING EQUIPMENT SHALL BE MADE IN FLEXIBLE CONDUIT.

2. WHERE RACEWAYS CONTAINING UNGROUNDED CONDUCTORS 4 AWG AND LARGER ENTER A CABINET, BOX ENCLOSURE, OR RACEWAY, THE CONDUCTORS SHALL BE PROTECTED BY A SUBSTANTIAL FITTING PROVIDING A SMOOTHLY ROUNDED INSULATING SURFACE.

3. CABLES AND RACEWAYS SHALL NOT BE SUPPORTED BY CEILING

4. WHERE PORTIONS OF A CABLE RACEWAY OR SLEEVE ARE KNOWN TO BE SUBJECTED TO DIFFERENT TEMPERATURES AS IN COLD STORAGE AREAS OF BUILDINGS OR WHERE PASSING FROM THE INTERIOR TO THE EXTERIOR OF THE BUILDING, THE RACEWAY OR SLEEVE SHALL BE SEALED WITH AN APPROVED MATERIAL.

DRAWING ELECTRICAL SPECIFICATION

DISCONNECTS

<u>ELECTRICAL SERVICE:</u>

2. EXTERNALLY OPERATED.

SOURCE, AND LOAD SIDE SERVED.

SOURCE, AND LOAD SIDE SERVED.

USED FOR ANOTHER CONDUCTOR.

BREAKERS SHALL FEED THE CKTS.

3. HORSE POWER RATED.

DISTRIBUTION EQUIPMENT:

PANELBOARDS

DIAGRAM)

MARKED "HID"

BRANCH CIRCUITS:

WITH GFCI PROTECTION.

AND WITHIN 25 FT)

RESPECTIVELY.

CEILING ARE NOT ALLOWED.

ELECTRICAL SERVICE AT POINT AND IN MANNER AS DIRECTED BY THE

5. PROVIDE ENGRAVED SCREW-ON NAMEPLATE ON DISCONNECT COVER

6. DISCONNECTING MEANS MUST BE LOCATED WITH-IN SIGHT FROM &

1. FACTORY ASSEMBLED CIRCUIT BREAKER TYPE. (SQUARE 'D' NQOD OR

NF AS REQUIRED WITH HINGED TRIM FRONT OR APPROVED EQUAL)

3. ALL CIRCUIT BREAKERS SHALL BE SERIES RATED (SEE ONE-LINE

4. PANELBOARDS BUS SHALL BE TIN-PLATED ALUMINUM, PROVIDE

INDICATING PANEL DESIGNATION, VOLTAGE, PHASE, AMPRAGE, LINE SIDE

FLUORESCENT AND OR HID LIGHTING CIRCUITS MUST BE LISTED AND

9. CIRCUIT BREAKERS UTILIZED IN A 3-PHASE, CORNER-GROUNDED

DELTA SYSTEM MUST BE IDENTIFIED FOR USE WITH IN THAT SYSTEM.

10. EACH GROUNDED (NEUTRAL) CONDUCTOR SHALL TERMINATE WITHIN

THE PANELBOARD. IN AN INDIVIDUAL TERMINAL THAT IS NOT ALSO

1. WHEN MORE THAN (1) BRANCH CKT SUPPLIES MORE THAN (1)

RECEPTACLE ON THE SAME YOKE, SIMUTANEOUSLY ACTIVATED CIRCUIT

2. 15 AND 20 AMP, SINGLE PHASE, 125V RECEPTACLES INSTALLED IN

BATHROOMS, OUTSIDE, ROOFTOPS, OR KITCHENS SHALL BE PROVIDED

3. A 15 OR 20 AMP, SINGLE PHASE, 125V, GFCI RECEPTACLE SHALL

BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF

4. RECEPTACLES OF ANY KIND ABOVE A SUSPENDED OR DROPPED

PROVIDE A COMPLETE SYSTEM OF OUTLETS, CONDUITS, EQUIPMENT

SPACE, CABINETS, ETC., FOR TELEPHONE COMPANY USE. SYSTEM

CONDUITS AS INDICATED. MAINTAIN MINIMUM 24" SEPARATION FROM

REQUIREMENTS OF TELEPHONE COMPANY. PROVIDE ENTRANCE

POWER. ANY AND ALL SIGNALING AND OR COMMUNICATIONS

INSTALLATIONS SHALL COMPLY WITH NEC CHAPTERS 7 & 8

SHALL BE AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH ALL

HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPMENT. (VISIABLE

2. PROVIDE TYPE WRITTEN CIRCUIT BOARD DIRECTORY CLEARLY

COMPLETE WITH COPPER GROUND BUS AND BOLT-ON CIRCUIT

5. PROVIDE ENGRAVED SCREW-ON NAMEPLATE ON PANEL TRIM

6. PROVIDE FIELD MARKINGS TO WARN QUALIFIED PERSONS OF

POTENTIAL ELECTRIC ARC FLASH HAZARDS. (NEC-110.16)

7. NEMA 1 OR 3R AS INDICATED OR REQUIRED BY CODE.

1. CLASS, TYPE AND SIZE AS LISTED ON DRAWINGS.

2. MANUFACTURED BY BUSSMAN OR APPROVED EQUAL

8. CIRCUIT BREAKERS UTILIZED TO SWITCH 120V OR 277V

INDICATING DESIGNATION, VOLTAGE, PHASE, AMPRAGE, LINE SIDE

READILY ACCESSIBLE FROM AIR CONDITIONING OR REFRIGERATION

EQUIPMENT. THE DISCONNECTING MEANS CANNOT BE LOCATED ON

UTILITY COMPANY. PROVIDE ALL DETAILS AS NECESSARY. INCLUDE

ALL CHARGES BY THE UTILITY COMPANY IN THIS CONTRACT.

4. NEMA 1 OR 3R AS INDICATED OR REQUIRED BY CODE.

PANELS THAT ARE DESIGNED TO ALLOW ACCESS TO THE

IDENTIFYING EACH CIRCUIT AS TO USE AND LOCATION.

AIR-CONDITIONING OR REFRIGERATION EQUIPMENT.

'. SWITCHES SHALL BE "HEAVY DUTY" RATED.

JUNCTION BOXES: I-BOXES SHALL BE GALVANIZED STEEL OR CAST WATERPROOF TYPE. PROVIDE BOXES OF PROPER SIZE, CONFIGURATION AND TYPE AS IS SUITABLE FOR THE TERMINATION OR DEVICE TO BE INSTALLED.

CONDUCTORS: GENERAL

1. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE. 2. CONDUCTORS #10 AWG COPPER AND SMALLER SHALL BE SOLID AND #8 AWG COPPER AND LARGER SHALL BE STRANDED TYPE OF WIRE. 3. TYPE THHN/THWN, 600-VOLT INSULATED.

IDENTIFICATION 1. GROUNDED (NEUTRAL) CONDUCTORS #6 AWG OR SMALLER MUST BE INDENTIED BY A CONTINIOUS WHITE OR GRAY OUTER FINISH. NEUTRAL CONDUCTORS LARGER THAN #6 AWG MUST BE IDENTIFIED BY DISTINCTIVE WHITE MARKING SUCH AS WHITE ELECTRICAL TAPE. 2. EQUIPMENT GROUNDING CONDUCTORS #6 AWG OR SMALLER MUST BE IDENTIFIED BY A CONTINIOUS GREEN OUTTER FINISH. GROUNDING CONDUCTORS LARGER THEN #6 AWG MUST BE IDENTIFIED BY DISTINCTIVE GREEN MARKING SUCH AS GREEN ELECTRICAL TAPE. 3. UNGROUNDED (PHASE) CONDUCTOR SHALL BE IDENTIFIED AS

FOLLOWS: 208Y/120 V PHASE A BLACK PHASE B REDPHASE C BLUE NEUTRAL WHITE

1. DO NOT EVER MIX CONDUCTORS FROM SEPARATE PANELS IN THE SAME RACEWAY OR ENCLOSURE. 2. ALWAYS INSTALL THE GROUNDED (NEUTRAL) CONDUCTOR FROM THE UTILITY TRANSFORMER TO THE MAIN DISCONNECT. THIS WILL MAINTAIN AN EFFECTIVE GROUND-FAULT CURRENT PATH (EFP)

NM (NONMETALLIC-SHEATHED) CABLE:

NOT ALLOWED ON THIS PROJECT.

AC (ARMORED) CABLE: & MC (METAL-CLAD) CABLE:

CONSTRUCTION 1. THE OUTER METAL ARMOR SHEATH SHALL BE IDENTIFIED AS AN ACCEPTABLE GROUNDING RETURN PATH. 2. A INSULATED, COPPER, GROUNDING CONDUCTOR PROPERLY SIZED PER NEC TABLE 250.122 SHALL BE INCLUDED WITH IN THE FACTORY FABRICATED ASSEMBLY. 3. EACH ASSEMBLY HAS NO MORE THAN THREE CURRENT—CARRYING CONDUCTORS (NOT INCLUDING THE NEUTRAL)

USES PERMITED AT <u>OFFICE AREA</u> (WHERE NOT SUBJECT TO PHYSICAL *DAMAGE)* 1. IN BOTH EXPOSED AND CONCEALED WORK.

3. AIR VOIDS OF MASONARY BLOCK WHERE NOT SUBJECT TO DAMPNESS. 4. CABLE TRAYS, WHERE THE CABLES ARE IDENTIFIED FOR THE USE. 5. HEALTH CARE FACILITIES

USES PERMITED AT <u>ATTIC AREA</u> (WHERE NOT SUBJECT TO PHYSICAL DAMAGE)

1. ONLY ALLOWED FOR LENGTHS 6'-0" OR LESS FOR FINAL CONNECTIONS TO MOTORS AND LIGHT FIXTURES. USES NOT PERMITTED

1. WET OR DAMP LOCATIONS 2. AS SERVICE-ENTRANCE CABLE. 3. COMMERCIAL GARAGES. . MOTION PICTURE STUDIOS

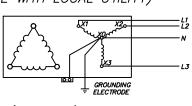
2. IN DRY LOCATIONS

6. PLACES OF ASSEMBLY

5. BATTERY STORAGE ROOMS 6. IN HOISTWAYS OR ON ELEVATORS OR ESCALATORS. 7. EMBEDDED IN POURED CONCRETE.

8. HAZARDOUS OR CORROSIVE LOCATIONS 9. AS OTHERWISE PROHIBITED BY THE NEC

GROUNDING SYSTEM: A. GROUND THE ENTIRE ELECTRICAL DISTRIBUTION SYSTEM, INCLUDING ALL RACEWAYS. OUTLETS. FIXTURE. EQUIPMENT. ETC.. IN FULL ACCORD. WITH NEC TO MAINTAIN AN EFFECTIVE GROUND-FAULT CURRENT PATH. 1. VERIFY THE LOCAL UTILITY PROPERLY GROUNDS THE SUPPLY SOURCE SO THE SYSTEMS PHASE TO GROUND VOLTAGE IS STABLIZED. (COORDINATE WITH LOCAL UTILITY)

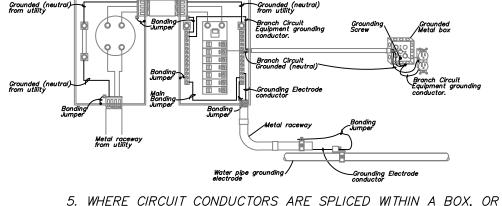


2. BOND THE GROUNDED (NEUTRAL) SYSTEM AND THE EQUIPMENT GROUNDING SYSTEM AT THE MAIN SERVICE VIA A MAIN BONDING JUMPER.

3. LOCATE AND INSTALL THE APPROPRIATE GROUNDING ELECTRODES ON THE PREMISES AS NOTED IN NEC 250.50 AND PROVIDE A GROUNDING ELECTRODE CONDUCTOR FROM THE ELECTRODE TO THE GROUNDED (NEUTRAL) CONNECTION AT THE MAIN SERVICE.

4. THE FOLLOWING NON-CURRENT CARRYING METAL PARTS OF THE SERVICE EQUIPMENT SHALL BE EFFECTIVELY BONDED

SERVICE RACEWAYS, CABLE TRAYS, CABLEBUS FRAMEWORK, AUXILIARY GUTTERS, OR SERVICE CABLE ARMOR OR SHEATH. ALL SERVICE ENCLOSURES CONTAINING SERVICE CONDUCTORS, INCLUDING METER FITTINGS, OR THE LIKE. OR ANY METALLIC RACEWAY ENCLOSING A GROUNDING ELECTRODE CONDUCTOR.



TERMINATED ON EQUIPMENT WITHIN OR SUPPORTED BY A BOX, ANY SEPARATE EQUIPMENT GROUNDING CONDUCTORS ASSOCIATED WITH THOSE CIRCUIT CONDUCTORS SHALL BE SPLICED OR JOINED TO THE BOX WITH DEVICE SUITABLE FOR

6. PROVIDE SEPARATE GROUNDING CONDUCTOR IN ALL RACEWAYS (NO EXCEPTIONS).

7. NONCONDUCTIVE COATINGS (SUCH AS PAINT) ON EQUIPMENT TO BE GROUNDED SHALL BE REMOVED FROM GROUNDING CONTACT SURFACES TO ENSURE GOOD ELECTRICAL CONTINUITY. 8. ANY SPECIAL SYSTEM (CATV, TELE, DATA, SOUND, ECT) REQUIRED TO BE GROUNDED SHALL BE BONDED TO THE ELECTRICAL EQUIPMENT GROUNDING SYSTEM AT THE MAIN SERVICE, WITH A MIN. #6 AWG CU CONDUCTOR.

DEVICES AND PLATES: NEW ELECTRICAL SERVICE ENTRANCE SHALL BE AS INDICATED. CONSULT LOCAL UTILITY COMPANY AND VERIFY THE CHARACTERISTICS AND POINT OF SERVICE ATTACHMENT. TERMINATE THE SECONDARY

ALL DEVICES (SWITCHES, OCCUPANCY SWITCHES, RECEPTACLES, SPECIAL SYSTEMS CATV & COM/DATA) TO BE "WHITE" WITH "WHITE" NYLON TYPE COVER PLATES. AT WORK COUNTER AREA ALL DEVICES TO BE "BLACK" WITH "BLACK" NYLON COVER PLATES PER PLANS. NOTE THAT ALL EXISITNG DEVICES AND COVERS TO BE UPGRADED TO "WHITE" FINISHES, COORDINATE ALL DEVICE FINISHES WITH OWNER.

RECEPTACLES SHALL BE COMMERCIAL GRADE, 20-AMP, 125-VOLT A.C. GROUND FAULT CIRCUIT INTERRUPTER (GFI): SHALL BE CLASS A 4MA TO 6MA TYPE WITH "SMART LOCK" PROTECTION. (LEVITON-SMART LOCK GFCI) WHEN THE GFCI COMPONENT OF THE UNIT FAILS THE ASSOCIATED DEVICE SHALL BE DEENERGIZED BY DEFAULT. IN ADDITION LINE-LOAD REVERSAL FEATURE SHALL RENDER THE UNIT UNUSABLE WHEN

SWITCHES SHALL BE COMMERCIAL GRADE, 20-AMP, 125-VOLT A.C. SWITCHES SHALL BE SINGLE POLE, THREE-WAY OR FOUR-WAY AS INDICATED ON THE DRAWINGS.

GENERAL USE DIMMERS SHALL NOT BE ALLOWED TO CONTROL RECEPTACLES OR AND PLUG CONNECTED TABLE AND FLOOR LAMPS. DEVICE COVERPLATES SHALL BE "NYLON" OR "LEXAN" (EXCEPT WHERE SPECIFIED OTHERWISE) IN FINISH TO MATCH DEVICES.

WEATHER PROOF (WP) IMPLIES A COVER THAT IS RATED A WEATHER PROOF WHETHER OR NOT THE ATTACHMENT PLUG IS INSERTED OR NOT. BOXES TO BE INTERMATIC #WP1000HRC (HORIZONTAL) OR APPROVED

LIGHTING FIXTURES:

1. FIXTURES SHALL BE AS PER THE LIGHTING FIXTURE SCHEDULE AS INDICATED ON THE DRAWINGS. 2. ALL FIXTURES SHALL BE U.L. LABELED FOR THE INTENDED

LAMPNG/DRIVERS 1. LED LAMPING SHALL BE 3000 AND OR 3500 DEGREE COLOR TEMPERATURE UNLESS OTHERWISE NOTED, CONFIRM WITH OWNER AND ARCHITECT PRIOR TO SHOP DRAWING SUBMITTAL.

EXIT & EMERGENCY LIGHTING SYSTEM:

PROVIDE A COMPLETE EXIT AND EMERGENCY LIGHTING SYSTEM AS INDICATED ON DRAWINGS. LOCATE ALL EXIT LIGHTS FOR MAXIMUM VISIBILITY. ENTIRE SYSTEM SHALL COMPLY WITH ARTICLE 700 OF NEC.

MECHANICAL EQUIPMENT WIRING SYSTEM:

MOTORS SPECIFIED UNDER MECHANICAL PORTION OF THESE SPECIFICATIONS. MOTORS WILL BE FURNISHED AND SET IN PLACE BY MECHANICAL CONTRACTOR. B. INSTALL AND WIRE THROUGH ALL DEVICES SUCH AS MAGNETIC STARTERS, SPEED CONTROLLERS, RELAYS, LINE VOLTAGE THERMOSTATS, SWITCHES, ETC., FURNISHED BY OTHERS, WHICH DIRECTLY HANDLE THE FULL LOAD CURRENT OF THE MOTORS. LOCATE ALL DIRECTED BY MECHANICAL CONTRACTOR.

A. PROVIDE ALL POWER FEEDERS AND FINAL CONNECTIONS TO ALL

MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPERATURE CONTROL WIRING FOR THIS PROJECT AND FOR ALL SUCH INTERLOCK AND CONTROL WIRING WHICH DOES NOT DIRECTLY HANDLE THE FULL LOAD CURRENT. THIS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL WIRING WHICH DOES DIRECTLY HANDLE THE FULL LOAD CURRENT, SUCH AS LINE VOLTAGE THERMOSTATS, LOCAL CONTROL EXHAUST FANS NOT INTERLOCKED WITH OTHER MECHANICAL EQUIPMENT, ETC. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE LOCATIONS OF ALL POWER AND CONTROL OUTLETS AND NECESSARY WIRING REQUIRED.

FIRE ALARM AND DETECTION SYSTEM:

A. THIS SYSTEM SHALL BE DESIGN BUILD SYSTEM, COORDINATE WITH OWNER AND GENERAL CONTRACTOR

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 LIGHITNG 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).

	DRAWING INDEX			
NUMBER	DRAWING TITLE	DD SET 09/20/2024	PÉRMIT SET 10/11/2024	
E0	ELECTRICAL - LEGEND, SPECIFICATIONS, DRAWING INDEX	•	•	
ED.1	ELECTRICAL — DEMOLITION PLAN		•	
E1.1	ELECTRICAL — LIGHTING PLAN	•	•	
E2.1	ELECTRICAL — POWER PLAN	•	•	
E2.2	ELECTRICAL — BONCHON KITCHEN PLAN	•	•	
E2.3	ELECTRICAL — BROWN DONKATSU KITCHEN PLAN	•	•	
E3.1	ELECTRICAL - ONE-LINE DIAGRAMS & SCHEDULES	•	•	
E3.2	ELECTRICAL — SCHEDULES & DETAILS	•	•	

PROJECT NUMBER:

BONCHON & BROWN DONKATSU

APS..616.24

7 OLD TOWN SQUARE FORT COLLINS, CO 80524



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

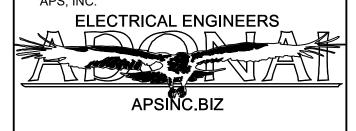
> STRENGTH IN DESIGN STRENGTH IN PARTNERSHIP STRENGTH IN COMMUNITY

> > PROJECT TEAM

MECHANICAL ENGINEER:

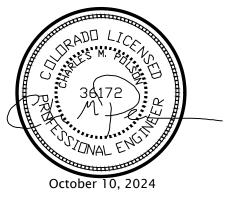
INTEGRATED MECHANICAL, LLC. **PLUMBING ENGINEER:** INTEGRATED MECHANICAL, LLC.

SHEET ISSUANCES



PERMIT SET

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



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LEGEND. SPECIFICATIONS, DRAWING INDEX

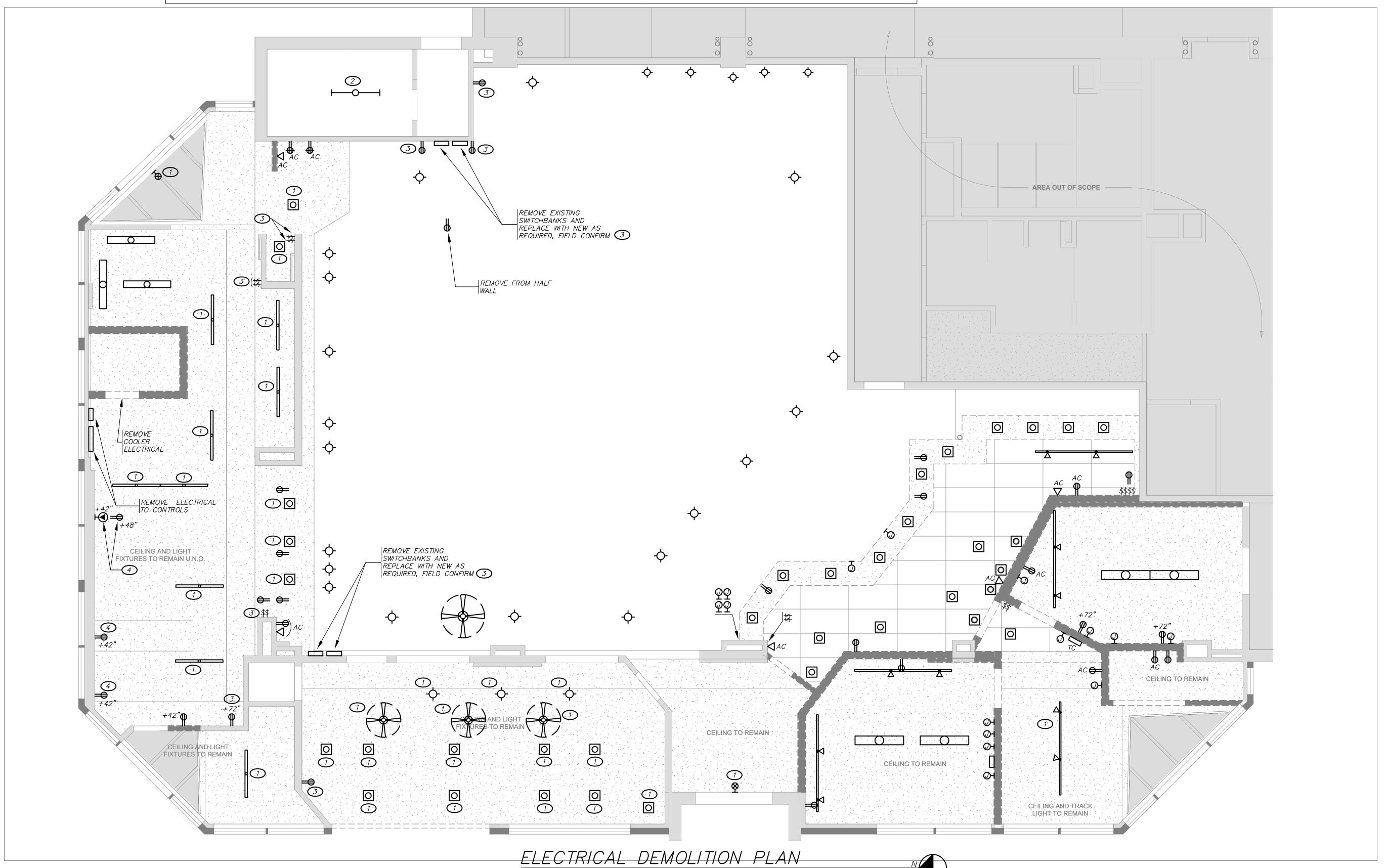
DRAWING NUMBER:

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 LIGHITNG FIXTURES BEFORE REMOVAL FROM THE SITE (CONFIRM).
- 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.

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

- 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.

BONCHON & BROWN DONKATSU

APS..616.24

PROJECT NUMBER:

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

MECHANICAL ENGINEER: INTEGRATED MECHANICAL, LLC.

PLUMBING ENGINEER: INTEGRATED MECHANICAL, LLC.



PERMIT SET

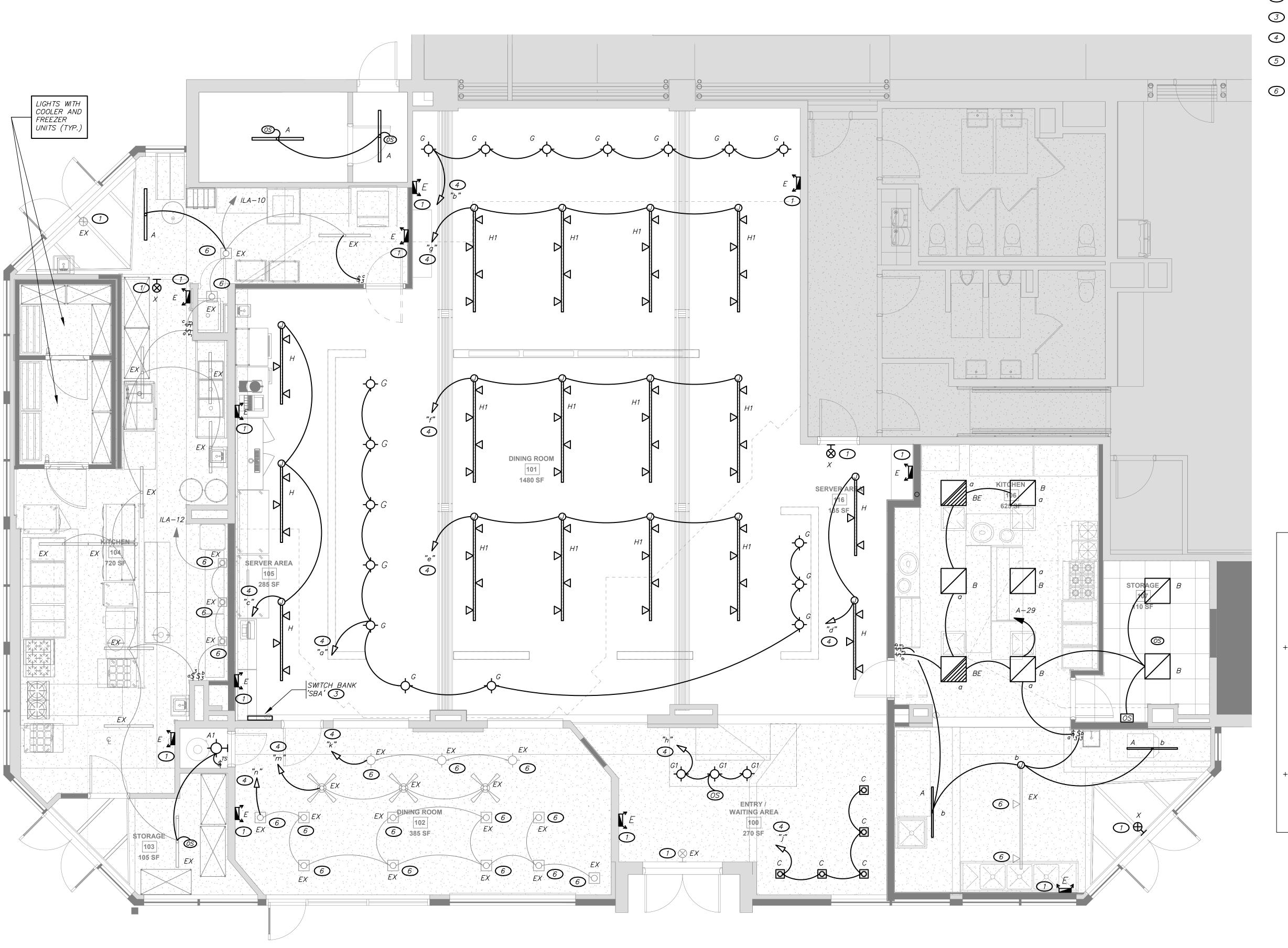
SHEET ISSUANCES DESIGN DEVELOPMENT 09-20-2024 PERMIT SET 10-11-2024



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> **ELECTRICAL DEMOLITION PLAN**

ED.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.
- 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

 OCCUPANCY SENSOR
 SHALL BE SENSOR
 SWITCH #WSX-PDT-W
 FOR STANDARD
 SWITCHING. REQUIRES
 NEUTRAL @ SWITCH
 BOX.
 - OSD OCCUPANCY SENSOR
 WITH DIMMING FUNCTION
 SHALL BE SENSOR
 SWITCH
 #WSX-PDT-EZ-D-WH
 - OS² OCCUPANCY SENSOR
 SHALL BE SENSOR
 SWITCH
 #WSX-PDT-2P-FAN-WH
 FOR DUAL-LEVEL
 SWITCHING. REQUIRES
 NEUTRAL @ SWITCH BOX
 - OS OCCUPANCY SENSOR
 SHALL BE SENSOR
 SWITCH #CMR-PDT-10

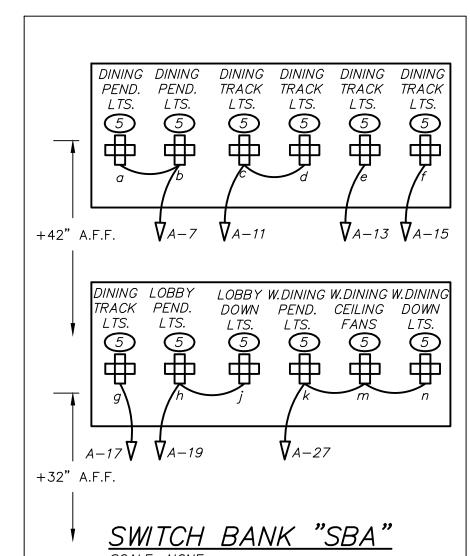
 \$^{TS} ELECTRONIC TIMER
 SWITCH
 2-5-10-15-30-60
 MINUTES. SENSOR

SWITCH #PTS60-WH

FOR 12Ö-277 VOLT

PP POWER PACK SHALL BE SENSOR SWITCH

APPLICATIONS.



PROJECT NUM

BONCHON & BROWN DONKATSU

APS..616.24

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.

> ECTRICAL ENGINEER: S, INC.



PERMIT SET

SHEET ISSUANCES

DESCRIPTION

DATE

DESIGN DEVELOPMENT

PERMIT SET

10-11-2024

36172

MALENDING

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ELECTRICAL LIGHTING PLAN

DRAWING NUMBE

E1.1

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).

REFERENCE NOTES

(THIS SHEET ONLY)

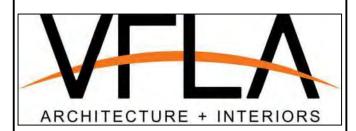
1) NEW DEVICE REPLACING EXISTING, CONFIRM FINISH WITH ARCHITECT. 2 CONFIRM EXACT MOUNTING HEIGHT. PROVIDE IN-WALL DEVICE BOX, ARLINGTON #TVBU505.



APS..616.24

PROJECT NUMBER:

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

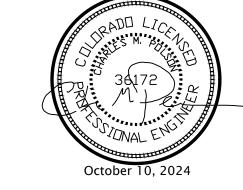
MECHANICAL ENGINEER: INTEGRATED MECHANICAL, LLC.

<u>PLUMBING ENGINEER:</u> INTEGRATED MECHANICAL, LLC.



PERMIT SET

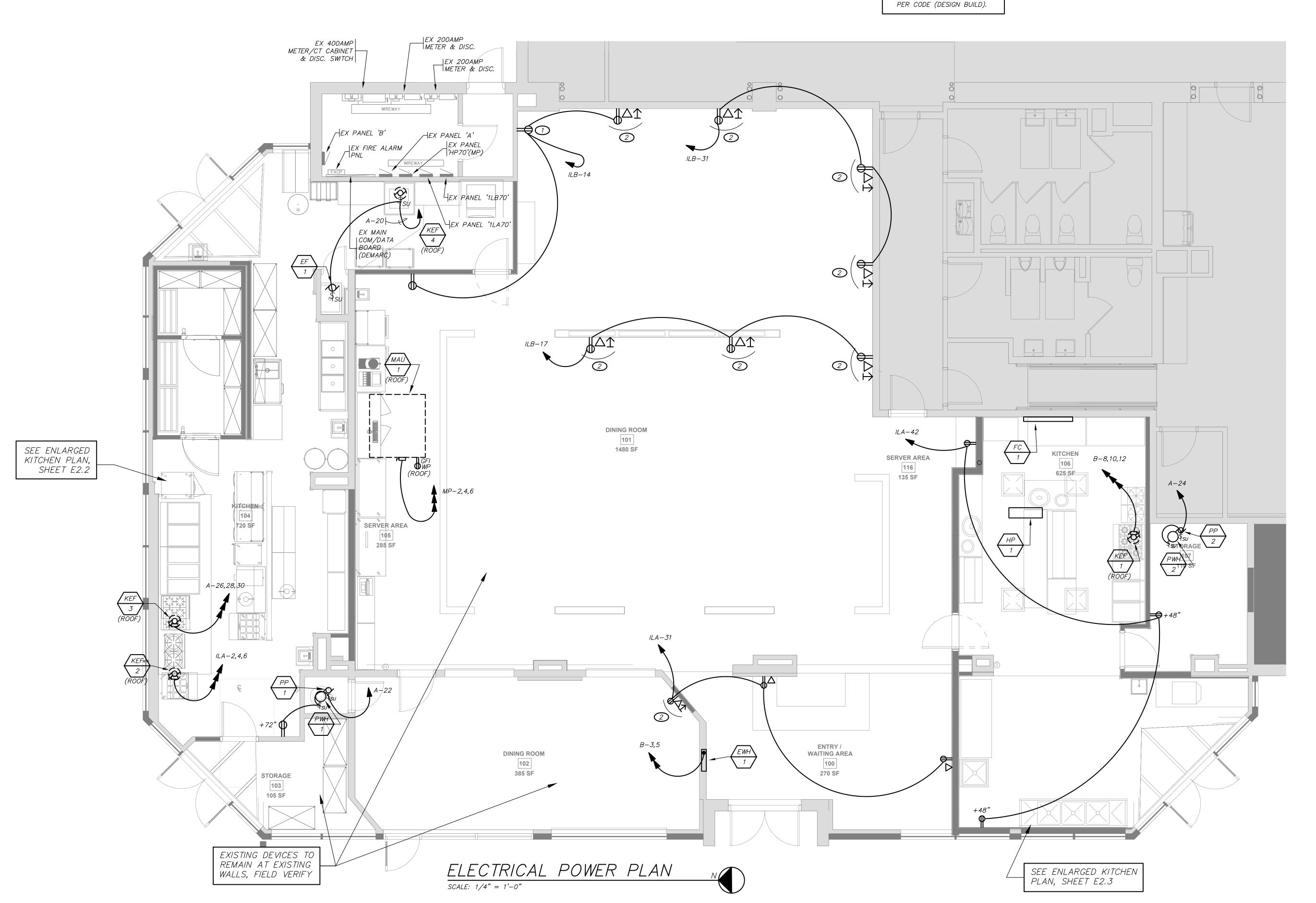
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ELECTRICAL POWER PLAN

E2.1



GENERAL NOTES:

ITEM

FRYER, GAS WITH LED CONTROLS

FRYER, GAS WITH LED CONTROLS

LOW TEMP HOT HOLDING CABINET

RICE COOKER/ WARMER

UNDERCOUNTER FREEZER

REACH-IN SOLID DOOR FREEZER

DRAWER WARMERS

MEGA TOP UNIT

68" WORKTOP REFR.

FREEZER, REACH-IN

WALK-IN EVAP. UNIT

WALK-IN CONDENSER

WALK-IN EVAP. UNIT

WALK-IN CONDENSER

DISH MACHINE

ICE MACHINE

330) BACK BAR KEG REFR.

P.O.S. UNIT

SEQUENCE OF OPERATION:

SODA DISPENSER

KIOSK UNITS (CONFIRM ELECTRICAL)

WALK-IN COOLER LIGHTS

WALK-IN COOLER LIGHTS

106.1

209A

209B

209C

210B

310

406.2

500

504

ILA-18

504

CONFIRM EXACT

KITCHEN PLAN

LOCATION W/ OWNER'S

DINING ROOM

1480 SF

- 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.

LOAD

12A

12A

7A

13A

5.3A

3.8A

5.7A

2.4A

6.0A

6.3A

2.0A

EST.

EST.

2.0A

EST.

EST.

10A

EST.

23A

11.1A

3.5A

(EST.

(EST.

(EST.

REFERENCE NOTES

BREAKER

20/1

20/1

15/2

OUTLET

OUTLET

KITCHEN EQUIPMENT SCHEDULE

FEEDER

2#12, 1#12 GND.,

1/2"c.

2#12, 1#12 GND.,

1/2"c. 2#12, 1#12 GND.,

1/2"c. 2#12, 1#12 GND.,

1/2"c.

2#12, 1#12 GND.,

1/2"c.

2#12, 1#12 GND.,

1/2"c.

2#12, 1#12 GND.,

1/2"c.

3#12, 1#12 GND.,

3/4"c.

2#12, 1#12 GND.,

1/2"c.

2#12, 1#12 GND.,

1/2"c. 3#12, 1#12 GND.,

3/4"c.

2#10, 1#10 GND.,

3/4"c.

2#12, 1#12 GND.,

1/2"c.

2#12, 1#12 GND.,

2#12, 1#12 GND.,

1/2"c.

2#12, 1#12 GND.,

1/2"c.

2#12, 1#12 GND.,

1/2"c.

1/2"c.

VOLTAGE,

PHASE

120/1

120/1

208/1

120/1

120/1

120/1

120/1

120/1

120/1

120/1

120/1

120/1

208/3

120/1

120/1

208/3

120/1

208/1

120/1

120/1

120/1

(THIS SHEET ONLY)

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

NOTES

PROVIDE CORD & PLUG & DUPLEX

PROVIDE CORD & PLUG & DUPLEX

PROVIDE NEMA 6-15R OUTLET TO

PROVIDE NEMA 5-15R OUTLET

PROVIDE NEMA 3R DISC. SWITCH

PROVIDE NEMA 1 DISC. SWITCH

PROVIDE NEMA 5-15R OUTLET

PROVIDE NEMA 5-15R OUTLET

PROVIDE COM/DATA OUTLET

PROVIDE COM/DATA OUTLET

PROVIDE NEMA 5-15R OUTLET ALSO

PROVIDE NEMA 5-15R OUTLET ALSO

DIRECT CONNECTION

DIRECT CONNECTION

30/1/15/3R

30/3/20/3R

30/1/15/3R

30/3/20/3R

30/1/30/3R

30/2/15/1

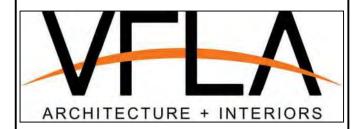
MATCH CORD & PLUG

BONCHON & BROWN DONKATSU

APS..616.24

PROJECT NUMBER:

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.

ECTRICAL ENGINEER:



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

NOTES:

NORMAL OPERATING CONDITIONS HOOD UNITS

1. ANSUL SYSTEM MICRO SWITCH IN CLOSED POSITION.

2. COIL ON CONTACTORS "C1", "C2", "C3", "C4", "C5", "C6", "C7", "C8", AND "C9" ARE

3. UNDER HOOD EQUIPMENT CONTACTS AND MAKE—UP AIR UNIT CONTACTS ARE CLOSED AND FUNCTION UNDER NORMAL CONTROL OPERATION.
4. EXHAUST FAN CONTACTS ARE OPEN AND OPERATE UNDER NORMAL CONTROL OPERATION BY OTHERS.

ACTIVATION OF ANSUL SYSTEM HOOD UNITS

1. ANSUL SYSTEM MICRO SWITCH SWITCHES TO THE OPEN POSITION.
2. COIL ON CONTACTORS "C1", "C2", "C3", "C4", "C5", "C6", "C7", "C8", AND "C9" ARE DE-ENERGIZED.

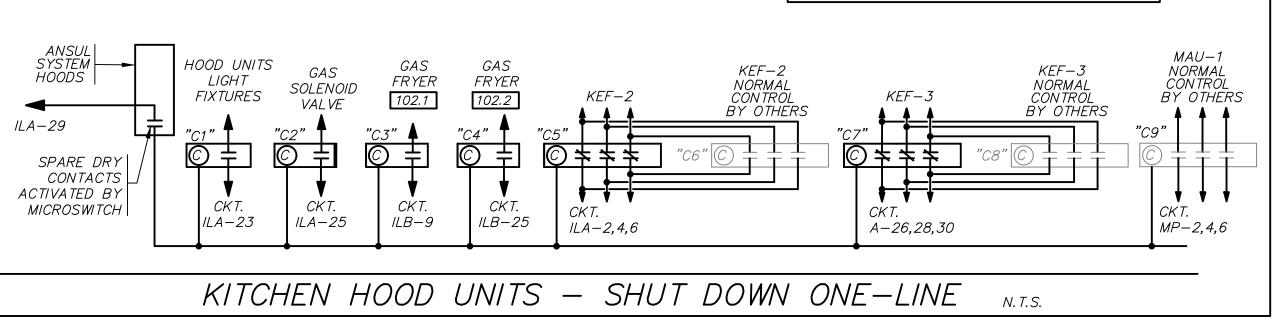
3. UNDER HOOD EQUIPMENT CONTACTS AND MAKE—UP AIR UNIT CONTACTS ARE OPEN AND WILL NOT FUNCTION UNTIL ANSUL SYSTEM IS RESET.
4. EXHAUST FAN CONTACTS ARE CLOSED AND OPERATE REGARDLESS OF NORMAL CONTROL POSITION. FANS REMAIN IN THE ON POSITION UNTIL ANSUL SYSTEM IS RESET.

• 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.





MP-26,28

(311.1)

VERIFY EXACT

LOCA TION

105 285 SF

500

(500)

ILA-14

DINING ROOM

102 385 SF

ILA-7,9,11

(209B)

ILA-29

HOOD, COORDINATE

WITH MECHANICAL

-(209A)

ILA−26 /

■ ILA−30

202.1

STORAGE

105 SF

CONFIRM IF

ON ROOF

ILB-11

1) ANSUL CONTROLS

1) FAN HOOD CONTROL

ILB-25

(201.2)

1 LIGHT CONTROL

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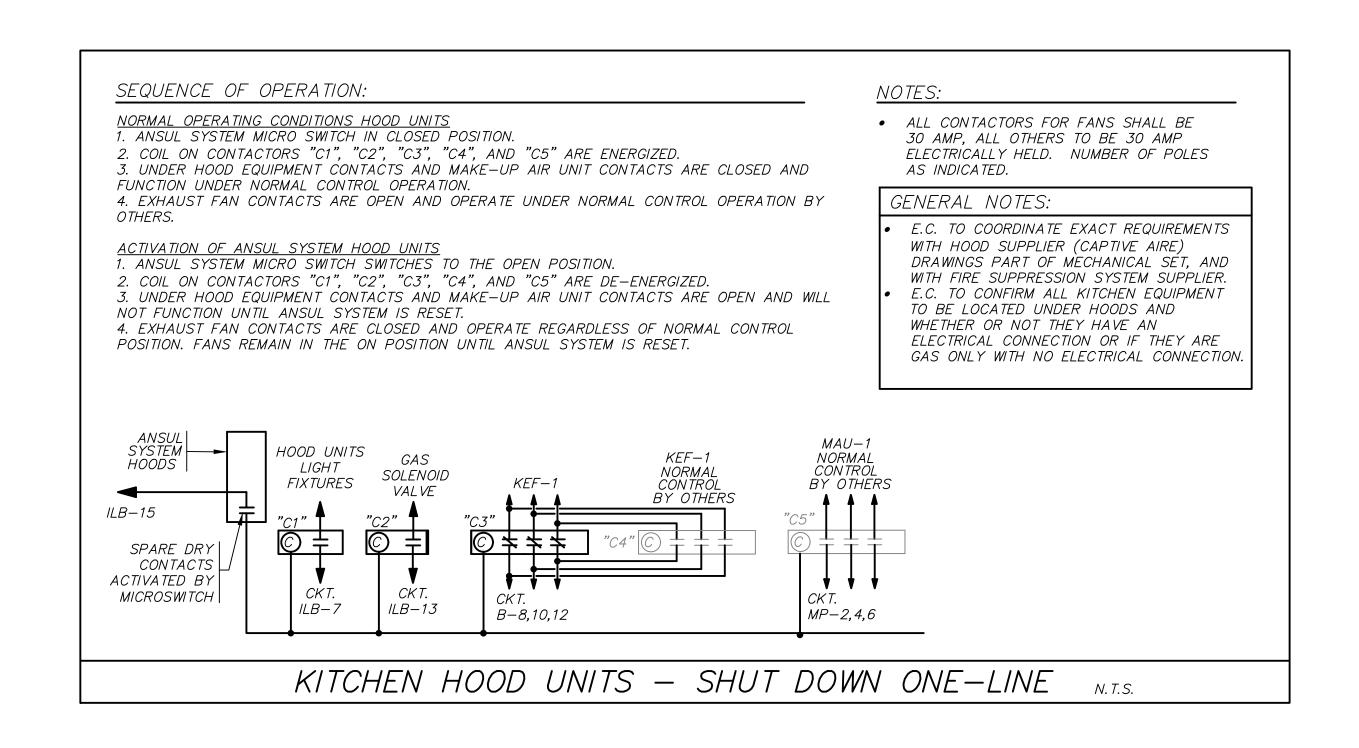
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ELECTRICAL NORTH KITCHEN POWER PLAN

DRAWING NUMBER:

E2.2

NOTES SAUGE WARMER LOAD WOLTAGE FEEDER BREAKER NOTES BIOT 36" WORKTOP FREEZER 4.1A 120/1 24/12, 14/12 OND, 1/2"c. 20/1 PROVIDE NEMA 5-15R OUTLET BIOS MEAT SLICER 14A (EST.) 120/1 24/12, 14/12 OND, 1/2"c. 20/1 PROVIDE NEMA 5-15R OUTLET BIOS REACH—IN REFR. 7.2A 120/1 24/12, 14/12 OND, 1/2"c. 20/1 PROVIDE NEMA 5-15R OUTLET AND CORD & PAUSE NEMA 5-15R OUTLET 24/12, 14/12 OND, 1/2"c. 20/2 PROVIDE NEMA 5-15R OUTLET 24/12, 14/12 OND, 1/2"c. 20/2 PROVIDE NEMA 5-15R OUTLET 24/12, 14/12 OND, 1/2"c. 20/1 PROVIDE NEMA 5-15R OUTLET 24/12, 14/12 OND,			KITC	HEN E	QUIPMENT SCH	EDULE	-
B102 MEAT SLICER 14A (EST.) 120/1 2#12, 1#12 GND., 1/2"c. 20/1 PROVIDE NEMA 5-15R OUTLET	KEY	ІТЕМ	LOAD		FEEDER	BREAKER	NOTES
B103 REACH-IN REFR. 7.2A 120/1 2#12, 1#12 GND., 1/2"c. 20/1 PROVIDE NEMA 5-15R OUTLET	B101	36" WORKTOP FREEZER	4.1A	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
B104 RICE COOKER 3000W 240/1 2#12, 1#12 GND., 1/2"c. 20/2 PROVIDE NEMA 6-20R OUTLET AND CORD & PLUG TO MATCH	B102	MEAT SLICER	14A (EST.)	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
B104 RCE COOKER SUOW (208/1) 2#12, 1#12 GND., 1/2 c. 20/2 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	B103	REACH—IN REFR.	7.2A	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	B104	RICE COOKER	3000W		2#12, 1#12 GND., 1/2"c.	20/2	PROVIDE NEMA 6-20R OUTLET AND CORD & PLUG TO MATCH
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 -	B105	48" SALAD PREP	1/3 HP	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 - - - - - - - - - - - - - - - - - - - - - - - - - -	B106	70" SALAD PREP	7.8A	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	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
		ı	_	-	_	ı	1
		ı	_	_	_	ı	1
			ı	_	_	1	1
		1	ı	_	-	İ	1
		1	ı	_	-	ı	1
		1	ı	_	-	ı	1
		_	_	_	_	_	_
		_	-	_	-	_	_
		_	_	_	-	_	_
		_	-	_	-	_	_
		_	-	_	-	_	_
		_	_	_	_	-	_



REFERENCE NOTES

GENERAL NOTES:

REQUIRED.

LOCATIONS.

PER NEC 210.8 (B) PROVIDE 'GFI' TYPE RECEPTACLES OR

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

CIRCUIT BREAKERS AS

2 COORDINATE MOUNTING TYPE FOR OUTLET, FLOOR PEDESTAL OR DROP CORD TYPE WITH KITCHEN EQUIPMENT SUPPLIER.

(THIS SHEET ONLY)

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

BONCHON & BROWN DONKATSU

APS..616.24

PROJECT NUMBER:

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.



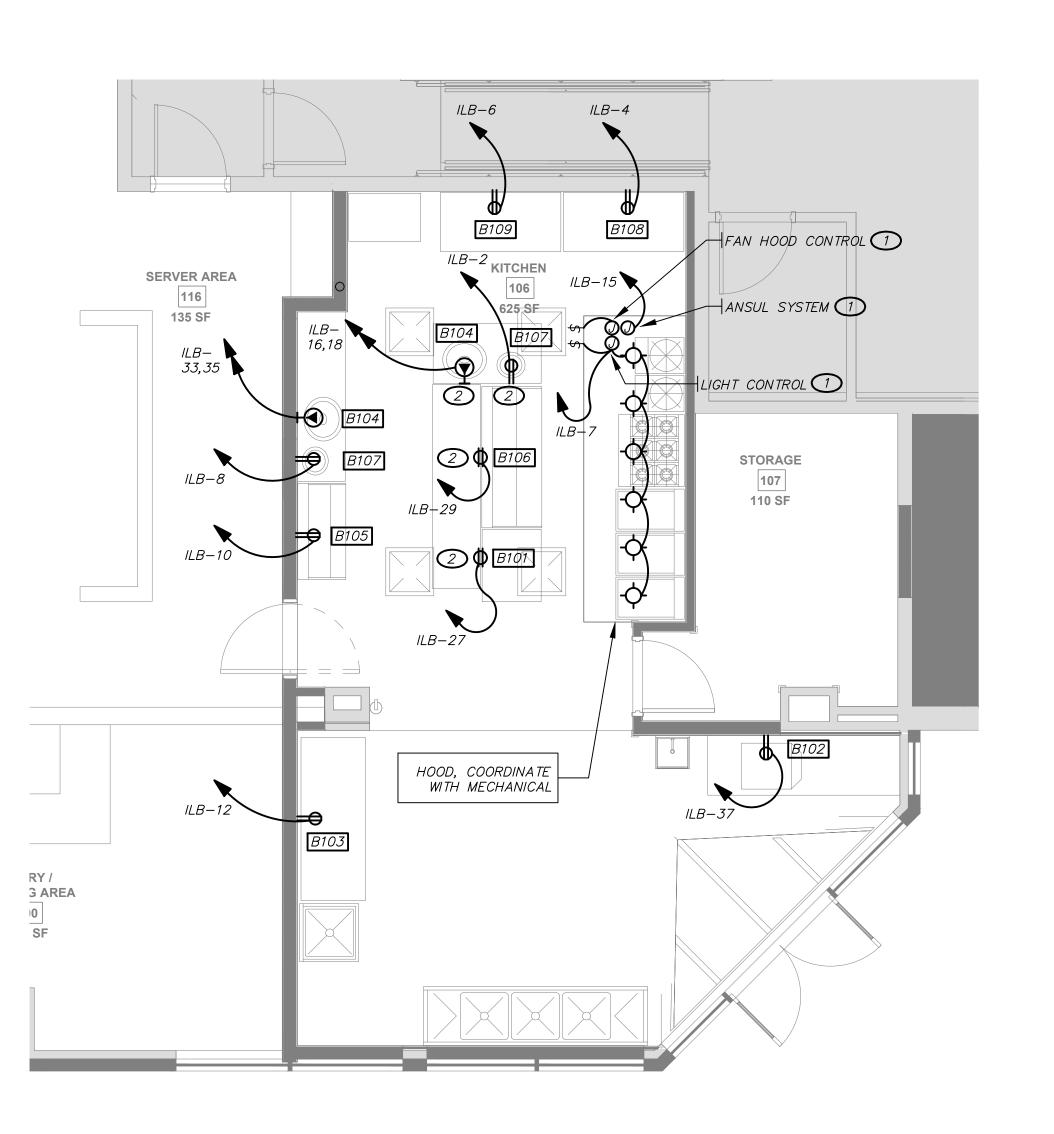
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ELECTRICAL SOUTH KITCHEN POWER PLAN

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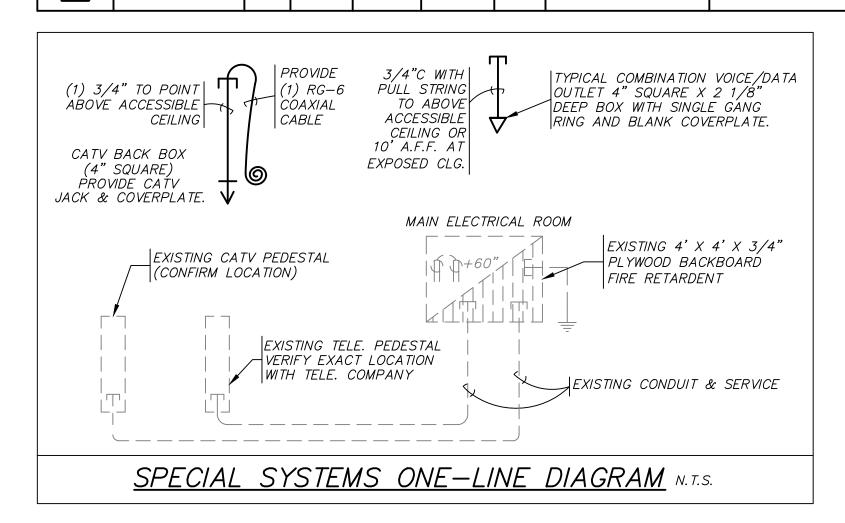
E2.3







	MECHA	4 <i>N</i> / <i>C</i>	CAL	EQUIF	PMENT	r sc	CHEDULE	
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	O. 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. SWTCH 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	_		_	_	_		_	_

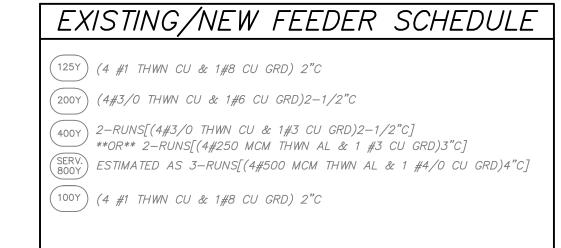


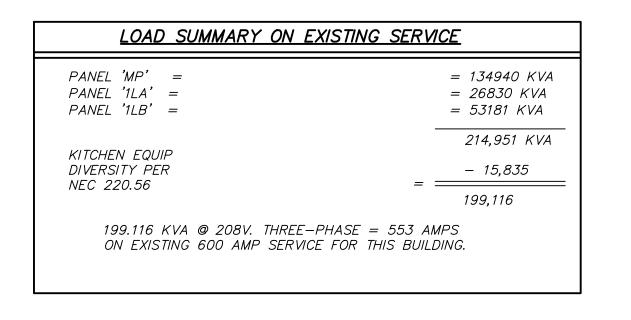
GRADE LEVEL

TYPE	LAMPS	DESCRIPTION	FINISH	MOUNTING	MANUFACTURER	CAT. NO.	<i>VOLTS</i>
Α	LED FURN W/UNIT	48" LONG LED STRIPLIGHT WITH LENS	WHITE	SURFACE	LITHONIA	ZL1N-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	ZL1N-LED-L24- 1500LM-FST-120- 30K-80CRI-WH	120
В	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- CP10-HE-SD-A	120
С	LED FURN W/UNIT	6" DIA. LED DOWNLIGHT	WHITE	RECESSED	LITHONIA	WF6-LED- 27K30K35K -90CRI-MW	120
Ε	LED FURN W/UNIT	EMERGENCY BATTERY UNIT WITH TWO ADJUSTABLE HEADS	WHITE	WALL AT +7'-6" A.F.F.	LITHONIA	ELM4L	120
EΧ	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
Н	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-VBS-BI	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-VBS-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.

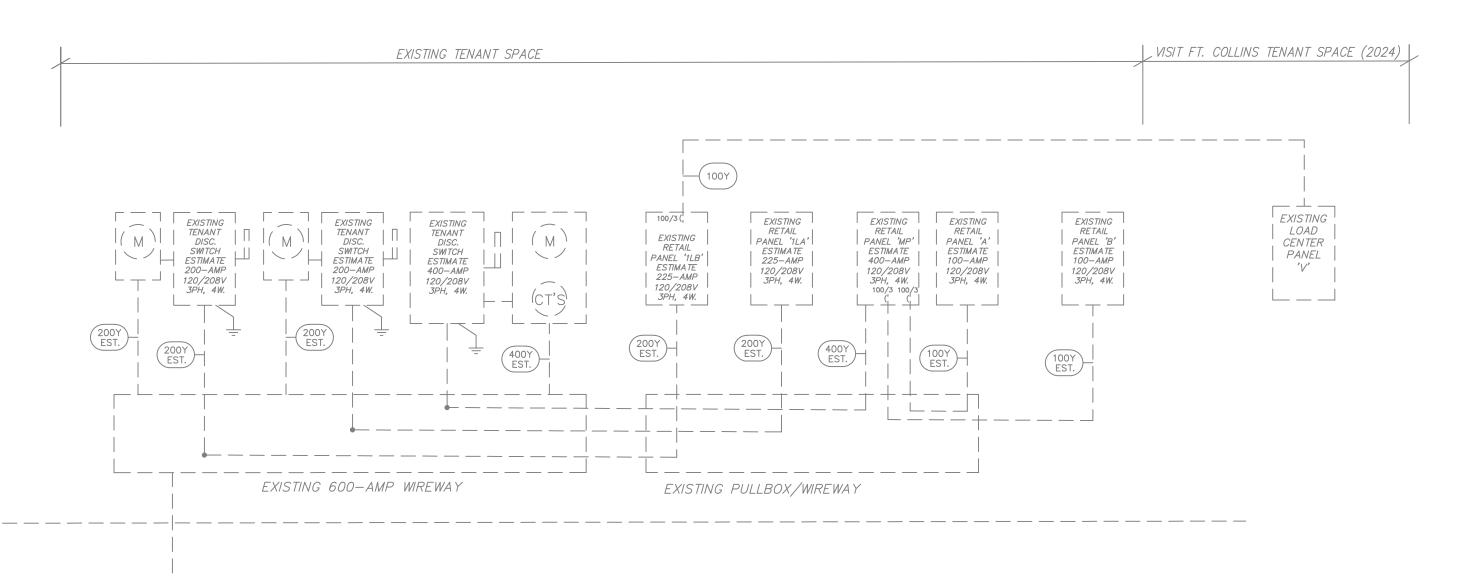




EXISTING THREE-PHASE

300-KVA PAD MOUNTED

SERVICE TRANSFORMER



SERIES RATING SPECIFICATION

Where series rating combinations are shown on the plans, the loadside circuit breakers supplied shall be test and listed as a series combination with the line side feeder fuses per the plans. Panelboards with series rated loadside circuit breakers shall have a <u>manufacturer's label</u> stating the listing for the series combination interrupting rating for the loadside 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 <u>field installed labels</u> to the loadside circuit breaker panelboard and feeder switch/panelboard/switchboard, in compliance with NEC Section 110-22. As required in Section 110-22, the loadside 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 loadside, series rated panelboard/switchboard.

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



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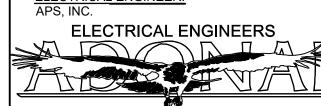
STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

STRUCTURAL ENGINEER: LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:
INTEGRATED MECHANICAL, LLC.
PLUMBING ENGINEER:
INTEGRATED MECHANICAL, LLC.

ELECTRICAL ENGINEER:



PERMIT SET

DESCRIPTION	DATE
DESIGN DEVELOPMENT	09-20-202
PERMIT SET	10-11-202

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ELECTRICAL ONE-LINE DIAGRAMS & SCHEDULES

DRAWING NUMBER:

E3.1

			EXIST	NG	PA	NE	LBC) <i>A</i>	RD	"/	" <	SCH.	EDULE			
MA	IN B	US:	125A										LOCATION: ELECTRICAL H	ROOM		
VOL	TAG	E:	208Y/120V, 3-PH,4W.		LOAD-	-VA				LOAD-	- VA		MOUNTING: SURFACE			
PAN	VEL	TYP	E: LTG. & APPL.										MINIMUM AIC: FIELD VER	RIFY		
CKT. NO.	AMPS	POLES	LOAD SERVED	7.00	RECP.	МЕСН.	SPARE	PHASE	7.00	RECP.	МЕСН.	KITCHEN	LOAD SERVED	AMPS	POLES	CKT. NO.
1	20	1	RECEPT. WEST EM LTS	_	_	_	_	A	_	_	3900	_	RTU	50	/	2
3	20	1	WALK IN COOLER	_	_	_	_	В	_	_	3900	_	_			4
5	20	1	ROOF TOP GFI RECP.	_	800	_	_	C	_	_	3900	_	_		3	6
7	20	1	DINING LIGHTS	800	_	_	_	A	200	_	_	_	EXIT & EM LIGHTS	20	1	8
9	20	1	FLOW SWITCH	<u> </u>	_	100	_	В	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	_	_	_	В	_	_	_	_	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	RECPT, EM LIGHTS	_	_	_	_	В	_	_	445	_	PWH-1, PP-1	20	1	22
23	20	1	S. WINDOW RECEPS	_	_	_	_	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	_	В	_	_	_	936	_			28
29	20	1	S. KITCHEN LIGHTS	740	_	_	_	C	_	_	_	936	_		3	30
				0405		050			100		1750-	0005				
			CONN. LOAD	6120	800	250	_	\sqcup	400		_		CONN. LOAD	_		
			% DF	1.25	NEC	1.0	_	+	1.25		1.0	1.0	% DF	_		
			EMD	7650	800	250	_	+	500		13560	2808	<i>LMD</i>	_		
			<u>EMD</u> = <u>25568 VA</u>	= 71A					MAIN	I BRE	AKER S	SIZE:				
			SYS. VOLT $2\overline{08}\sqrt{3}$						OR N	1AIN L	UG ON	LY (M	LO):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.

31 AN	E" AND DISCONNECT ANY	NLWA.	1141146	<i>VV//\//\</i> C	7 .											
	EXISTING	PA	NE	LBC)AR	D	"1	LB-	- 70)" 5	CHEDULE					
MAIN BUS: -											LOCATION: ELECTRICAL ROOM					
VOLTAGE:	208Y/120V, 3-PH,4W.	LOAD-VA					LOAD-VA				MOUNTING: SURFACE					
PANEL TY											MINIMUM AIC: FIELD VERIFY					
CKT. NO. AMPS	LOAD SERVED	7.76.	RECP.	МЕСН.	KITCHEN	PHASE	7.00	RECP.	МЕСН.	KITCHEN	LOAD SERVED	AMPS	POLES	CKT. NO.		
1 100 /	PANEL 'V'	_	_	5898	_	A	_	_	_	1248	WARMER (B107)	20	1	2		
3	_	_	_	5898	_	В	_	_	_	540	U.C. FREEZER (B108)	20	1	4		
5 / 3	_	_	_	5898	_	C	_	_	_	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)	_	_	_	1440	В	_	_	_	864	SALAD PREP (B105)	20	1	10		
11 20 1	FREEZER (207.1)	_	_	_	720	C	_	_	_	864	REFR. (B103)	20	1	12		
13 20 1	GAS SOLENIOD	_	_	_	100	A	_	600	_	-	DINING OUTLETS	20	1	14		
15 20 1	ANSUL SYSTEM	_	_	_	100	В	_	_	_	1500	RICE COOKER (B104)	20		16		
17 20 1	DINING OUTLETS	_	600	_	_	C	_	_	_	1500	-		2	18		
19 50 /	RTU	_	_	3900	_	Α	_	_	_	2760	DISHWASHER (310)	30	1	20		
21	_	_	_	3900	_	В	_	_	_	T -	SPACE ONLY			22		
23 / 3	_	_	_	3900	_	C	_	_	_	<u> </u>	SPARE	30	1	24		
25 20 1	GAS FRYER (102.2)	_	_	_	1440	A	_	_	_	-	SPARE	30	1	26		
27 20 1	FREEZER (B101)	_	_	_	492	В	_	_	_	T -	SPARE	30	1	28		
29 20 1	SALAD PREP (B106)	_	_	_	936	C	_	_	_	-	SPACE ONLY			30		
31 20 1	DINING OUTLETS	_	600	_	_	A	_	_	_	912	MEGATOP (201.2)	20	1	32		
33 20	RICE COOKER (B104)	_	_	_	1500	В	_	_	_	_	N. WALL OUTLET	20	1	34		
35 2	_	_	_	_	1500	C	_	_	_	_	N. WALL OUTLET	20	1	36		
37 20 1	MEAT SLICER (B102)	_	_	_	1680	A	_	_	_	728	HOLDING CABINET (106.1)	15		38		
39	SPACE ONLY	_	_	_	_	В	_	_	_	728	_		2	40		
41	SPACE ONLY	_	_	_		C		_		_	SPACE ONLY			42		
	CONN. LOAD	300	1200	27894	9908	П		600	_	13204	CONN. LOAD					
	% DF	 	NEC	1			_	NEC	_		% DF					
	EMD			27894		П	_	600	_	13204						
	$\frac{EMD}{SYS.} = \frac{53181 \text{ VA}}{208 \sqrt{3}} = 148A$										 LO):					

- * 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

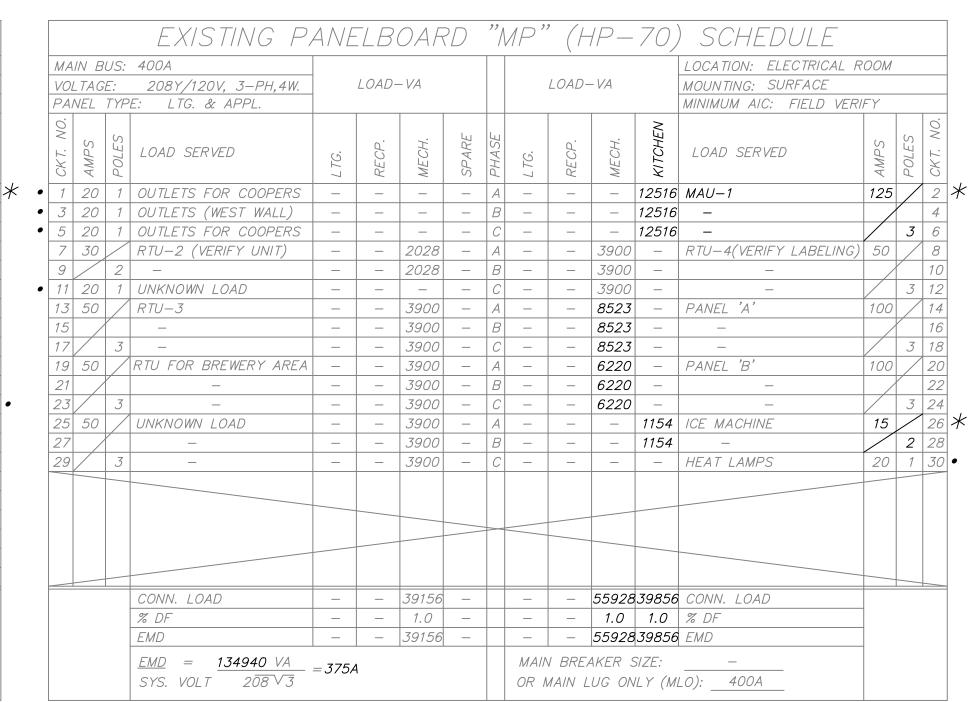
NEW BREAKERS TO BE ADDED TO EXISTING PANELS AS REQUIRED FOR NEW KITCHEN AND NEW MECHANICAL EQUIPMENT, SEE RESPECTIVE SCHEDULES. TYPICAL ALL EXISTING PANELS

			EXISTING	PA	NEI		DAR	D	"1	<u></u>	- 7C)"	SCHEDULE				
VOL	IN B LTAG NEL	E:	225A 208Y/120V, 3—PH,4W.	LOAD-VA						LOAD-				OCATION: ELECTRICAL ROOM OUNTING: SURFACE			
CKT. NO.	AMPS	POLES	LOAD SERVED	7.20	RECP.	MECH.	KITCHEN	PHASE	.577	RECP.	MECH.	KITCHEN	LOAD SERVED	AMPS	POLES	CKT. NO.	
1	20		COOLER COMP. (209C)	_	_	_	1200	Α	_	_	_	936	KEF-2	15		2	
3			_	_	_	_	1200	В	_	_	_	936	_			4	
5		3	_	_	_	_	1200	C	_	_	_	936	_		3	6	
7	20		COOLER COMP. (210C)	_	_	_	1200	Α	_	_	_	_	_	20	1	8	
9			_	_	_	_	1200	В	700	_	_	_	KITCHEN LIGHTS	20	1	10	
11		3	_	_	_	_	1200	C	100	_	_	_	QUARTZ LIGHTS	20	1	12	
13	20	1	GEN. OUTLETS	_	400	_	_	Α	_	_	_	600	POS (500)	20	1	14	
15	15	1	WARM COOLER FANS	_	_	_	1200	В	_	_	_	600	POS (500)(504)	20	1	16	
17	15	1	COLD COOLER FANS	_	_	_	1200	C	_	_	_	600	POS (500)	20	1	18	
19	20	1	TEST LAB RECP., SILO \$\Phi\$	_	600	_	_	Α	_	_	_	1550	RICE COOKER (III)	20	1	20	
21	20	1	WARM COOLER LIGHTS	200	_	_	_	В	_	_	_	1560	RICE COOKER (III)	20	1	22	
23	20	1	HOOD LIGHTS	400	_	_	_	C	_	_	_	_	BAR LIGHTS	20	1	24	
25	20	1	SOLENDID VALVE	_	_	_	100	Α	_	_	_	684	FREEZER (205.1)	20	1	26	
27	20	1	COOLER LIGHT	200	_	_	_	В	_	_	_	684	FREEZER (205.1)	20	1	28	
29	20	1	ANSUL SYSTEM	_	_	_	100	C	_	_	_	636	DRAWER WARMER (113)	20	1	30	
31	20	1	LOBBY OUTLETS	_	600	_	_	Α	_	_	_	756	FREEZER (207.3)	20	1	32	
33	20	1	BATH RECP.	_	_	_	_	В	_	_	_	756	FREEZER (207.3)	20	1	34	
35	20	1	BATH W.H.	_	_	_	_	C	_	_	_	600	SODA DISC. (406.2)	20	1	36	
37	20	1	LIGHTS	_	_	_	_	Α	_	_	_	420	KEG REFR. (330)	20	1	38	
39	20	1	LIGHTS	_	_	_	_	В	_	_	_	576	WORKTOP REFR. (202.2)	20	1	40	
41	20	1	LIGHTS	_	_	_	_	С	_	600	_	_	S. KITCHEN \$	20	1	42	
			CONN. LOAD	800	1600	_	9800		800	600	_	12830	CONN. LOAD				
			% DF	1.25	NEC	_	1.0		1.25	NEC	_	1.0	% DF	1			
			EMD	1000	1600	_	9800		1000	600	_	12830	EMD	1			
			$\frac{EMD}{SYS. VOLT} = \frac{26830 \text{ VA}}{208 \sqrt{3}} = 75A$							I BREA			 LO):200A				

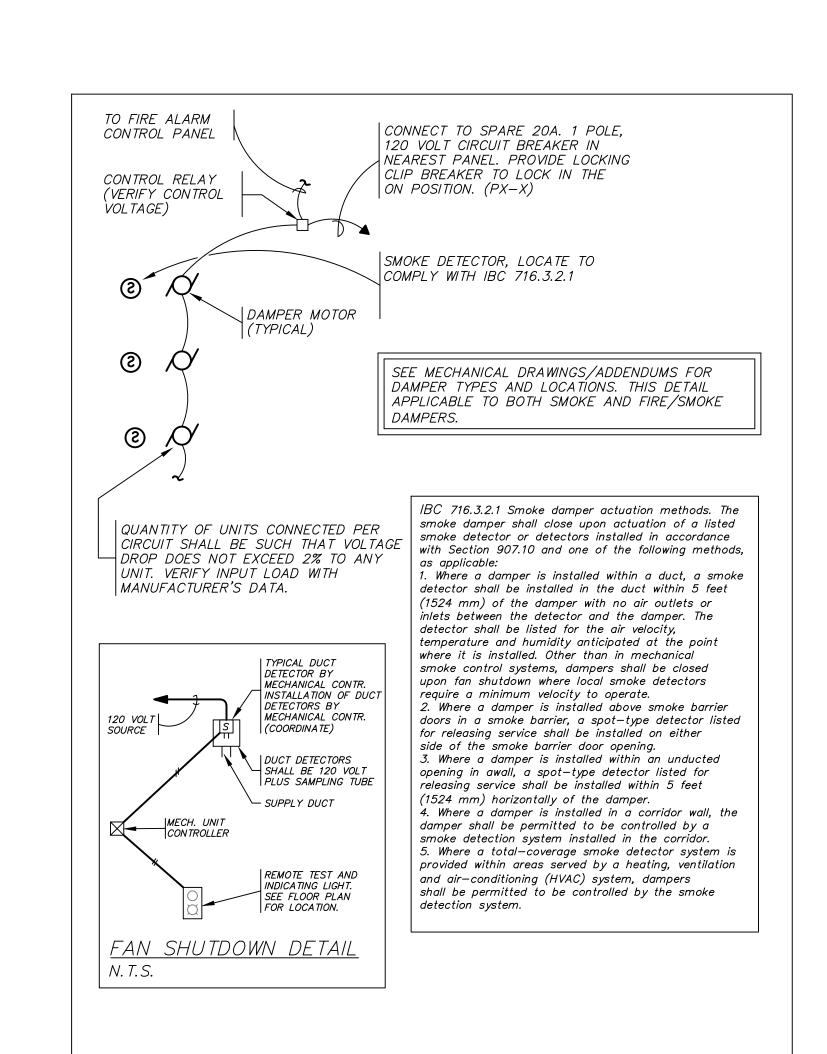
- * REPLACE EXISTING BREAKER IN SIZE AS SHOWN.
- VERIFY IF EXISTING CIRCUIT IS STILL ACTIVE, IF YES UPDATE SCHEDULE, IF NO AS SUSPECTED RE-LABEL AS "SPARE" AND DISCONNECT ANY REMAINING WIRING.

_			/	AND DISCONNECT ANY	, (L 1 v i) (i			•									
				EXISTI	/NG	PA	NE	LBC	A	RD	"B	" (SCH.	EDULE			
	MA	IN B	US:	125A										LOCATION: ELECTRICAL F	ROOM		
	VO	LTAG	E:	208Y/120V, 3-PH,4W.	1	LOAD-VA					LOAD-	- VA		MOUNTING: SURFACE			
-				E: LTG. & APPL.										MINIMUM AIC: FIELD VER	IFY		
•	OK 1. NO.	os AMPS	- POLES	LOAD SERVED EAST EXHAUST FAN	.917	- RECP.	I MECH.	_	D PHASE	. 77.7	- RECP.	I MECH.	KITCHEN	LOAD SERVED WEST EXHAUST FAN	SAMP S	sanoa 1	CK 7. NO.
\star	1B 7	20	1	CONVECTION OVEN	_	_	1500				_	_	_	UC FRIG & SHEETER	20	1	2B
$^{ au}dash$	3	20	1—	EWH-1	_	_	1500		B		_	_	_	SHEETER & UC FRIG.	20	/	4
-	5	<u> </u>	2	-		_	1500		C		_	_		COFFEE POT	20	1	6
-	7	50	\bigvee	RTU-5	_	_	3900		A		_	_		KEF-1	20		8
-	9	/	1	_	_	_	3900		B		_	_	1320	_		1	10
	11	_	3	_	_	_	3900		C		_	_	1320	_	/_	3	12
				CONN. LOAD	_	_	14700	_		_	_	_	3960	CONN. LOAD			
				% DF	_	_	1.0	_		_	_	_	1.0	% DF			
				EMD	_	_	14700	_		_	_	_	3960	EMD			
				$\frac{EMD}{SYS. \ VOLT} = \frac{18660 \ VA}{208 \sqrt{3}}$	=52A									 LO):			

- * REPLACE EXISTING BREAKER IN SIZE AS SHOWN.
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- * 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.





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

PROJECT TEAM

STRENGTH IN COMMUNITY

STRUCTURAL ENGINEER: LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER: INTEGRATED MECHANICAL, LLC.

PLUMBING ENGINEER: INTEGRATED MECHANICAL, LLC.

ELECTRICAL ENGINEER:



PERMIT SET

 DESCRIPTION
 DATE

 DESIGN DEVELOPMENT
 09-20-2024

 PERMIT SET
 10-11-2024

ADD LICE M. AND LI

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ELECTRICAL SCHEDULES & DETAILS

DRAWING NUMBER:

E3.2

