

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1- GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Shop Drawings.
- B. Comply with ASHRAE 15.
- C. EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.
- D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

- A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
 - 1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
 - 2. Evaporator Fans: Belt or direct driven, forward curved centrifugal.
 - 3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
 - 4. Condenser Fans: Direct drive propeller.
 - 5. Refrigerant Coils: Aluminum fins and copper coil.
 - 6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
 - 7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
 - 8. Economizer controls (Comparative Enthalpy, 100% capacity).
 - 9. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
 - 10. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
 - 11. Roof curb.
 - 12. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
 - 13. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install units level and plumb and firmly anchored.
- B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
- C. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
- D. Connect units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1- GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data for fire and smoke dampers.
 - B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
 - C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
 - D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
 - E. Comply with UL 181 and UL 181A for ducts and closures.
 - F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).
- PART 2 - PRODUCTS
- 2.1 DUCTS
- A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
 - 1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
 - 2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
 - B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
 - C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating.
 - Thickness: 1-1/2 inch. R-value : 8.
 - 1. Adhesive: ASTM C 916, Type I.
 - 2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
 - D. Joint and Seam Tape: Comply with UL 181A.
 - E. Joint and Seam Sealant: Comply with UL 181A.
 - F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.
- 2.2 ACCESSORIES
- A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
 - B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
 - C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
 - D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
 - B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
 - C. Avoid passing through electrical equipment spaces and enclosures.
 - D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
 - E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
 - F. Install liner and/or insulation on ductwork per the material schedule on sheet M010.
 - G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
 - H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
 - I. Install fusible links in fire dampers.
 - J. Provide saddle taps at tees for exposed ductwork.
- 3.2 TESTING, ADJUSTING, AND BALANCING
- A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
 - B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
 - C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
 - D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1- GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS

- A. All air terminal devices:
 - 1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
 - 2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
 - 3. Material: As scheduled.
 - 4. Finish: As scheduled.
 - 5. Mounting: As scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
- B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

HVAC GENERAL NOTES

- A. GENERAL NOTES APPLY TO HVAC SHEETS.
- B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
- C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
- E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- I. UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUS ED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- J. REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.
- K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- L. INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING) FURNISHED BY TSV.
- M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.



HVAC MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
DUCT	CONCEALED, GENERAL EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC

HVAC ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
EXT'G	EXISTING
FLR	FLOOR
FOH	FRONT OF HOUSE
GYP	GYPSUM BOARD
NTS	NOT TO SCALE
O/H	OVERHEAD
ODB	OPPOSED BLADE DAMPER
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
VSC	VARIABLE SPEED CONTROLLER
W/	WITH
WIC	WALK-IN COOLER

C02AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TNP	TENANT'S PHONE SUPPLIER
TPS	TENANT'S PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

	CEILING DIFFUSER
	CEILING-MOUNTED RETURN OR EXHAUST REGISTER
	SUPPLY REGISTER
	RETURN GRILLE
	FLEXIBLE DUCT
	MITERED CORNER WITH TURNING VANES
	DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT)
	RECTANGULAR TO ROUND DUCT TRANSITION
	DUCT-MOUNTED SMOKE DETECTOR
	MOTOR-OPERATED DAMPER
	MANUAL VOLUME DAMPER
	GREASE DUCT CLEANOUT
	MITERED CORNER WITHOUT TURNING VANES
	GRIDPOINT THERMOSTAT
	GRIDPOINT ZONE SENSOR MODULE
	GRIDPOINT SUPPLY PROBE
	PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
	CONNECT TO EXISTING
	EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION
	AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
	GRILL, REGISTER, OR DIFFUSER TAG: TAG NECK SIZE AIRFLOW [CFM]

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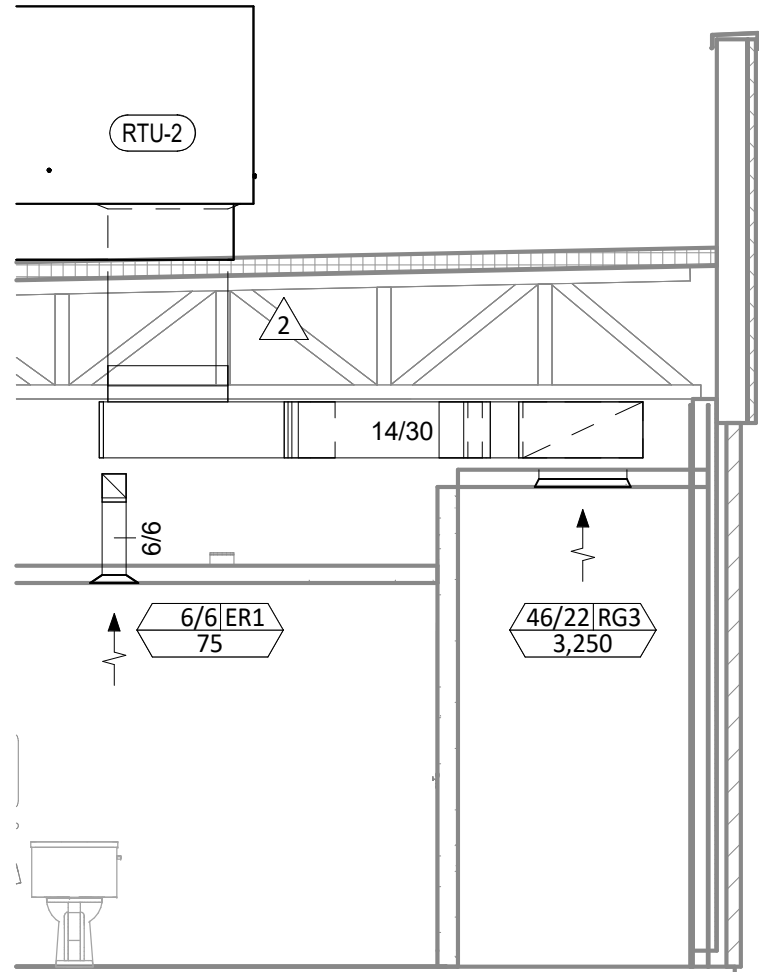
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HVAC SPECIFICATIONS

M010

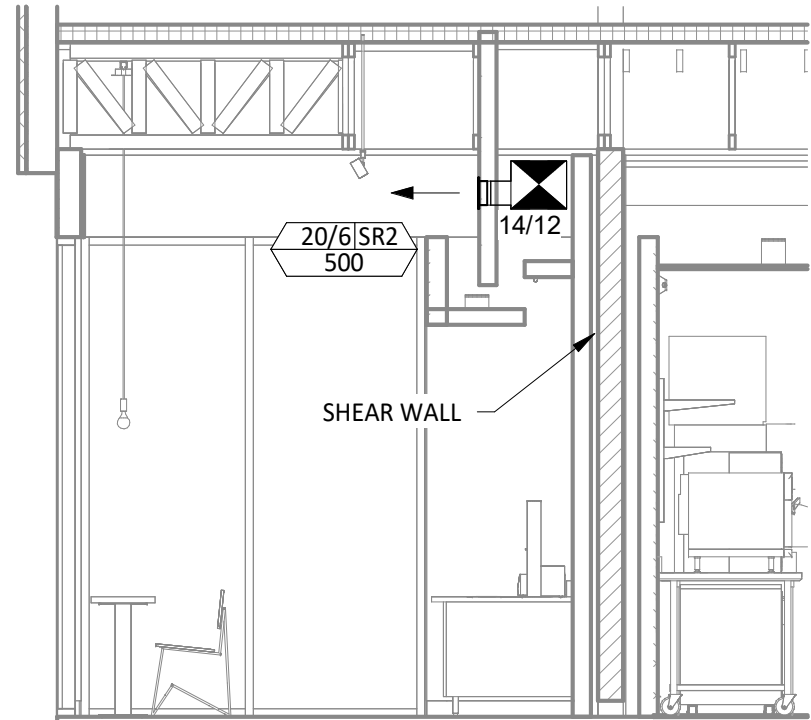
HVAC PLAN NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
- 26/14 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 20/22 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
- 26/16 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 26/18 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 16/16 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 10/15 DUCTS UP FROM HOOD TO 20/15 DUCT THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUS ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 24/10 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 4.
- 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- INSTALL SINGLE GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2 AND 4/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.



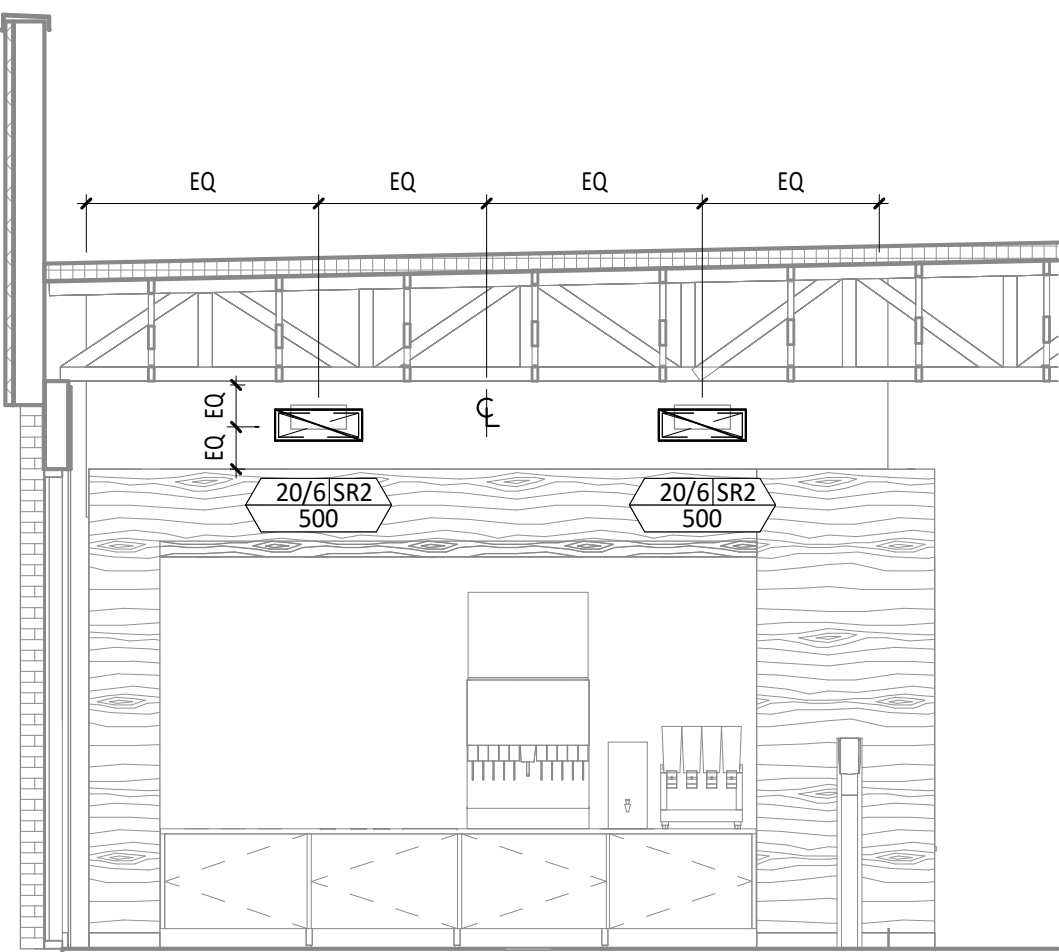
6 M100
1/4" = 1'-0"

HVAC DINING ROOM RETURN SECTION



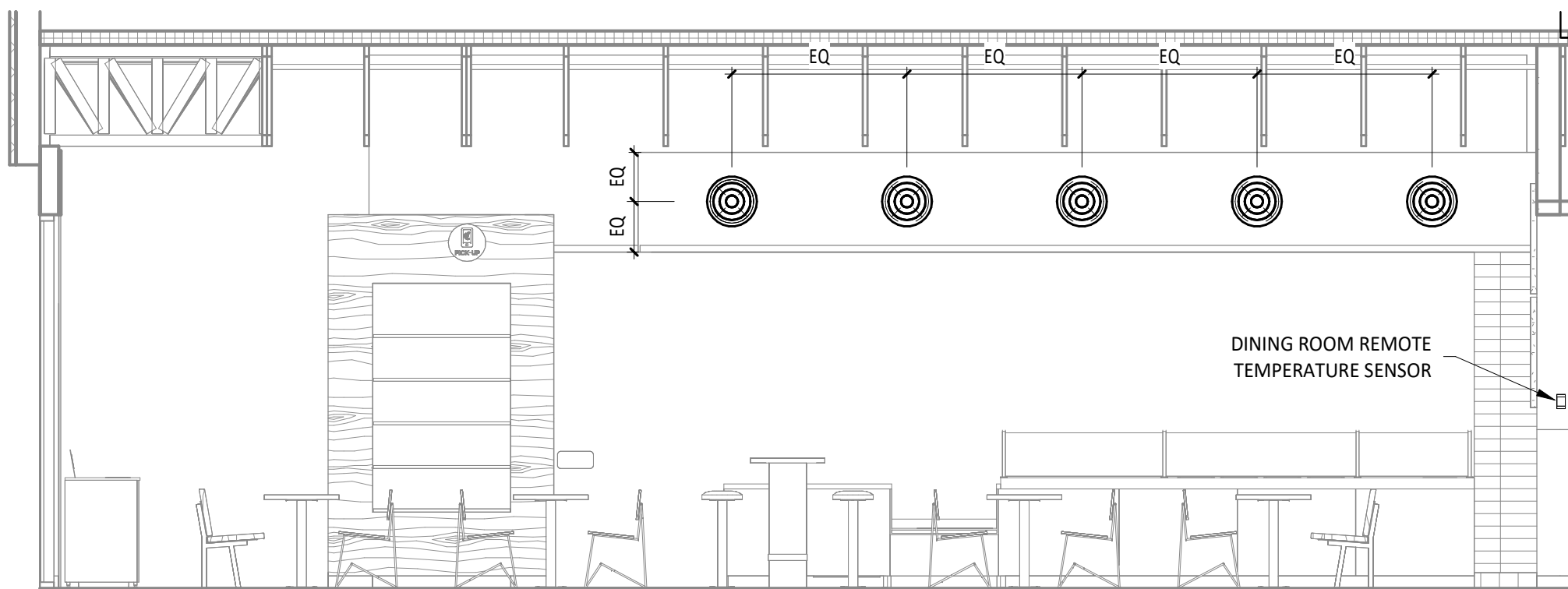
5 M100
1/4" = 1'-0"

HVAC DINING ROOM SECTION



4 M100
1/4" = 1'-0"

HVAC DINING ROOM SECTION

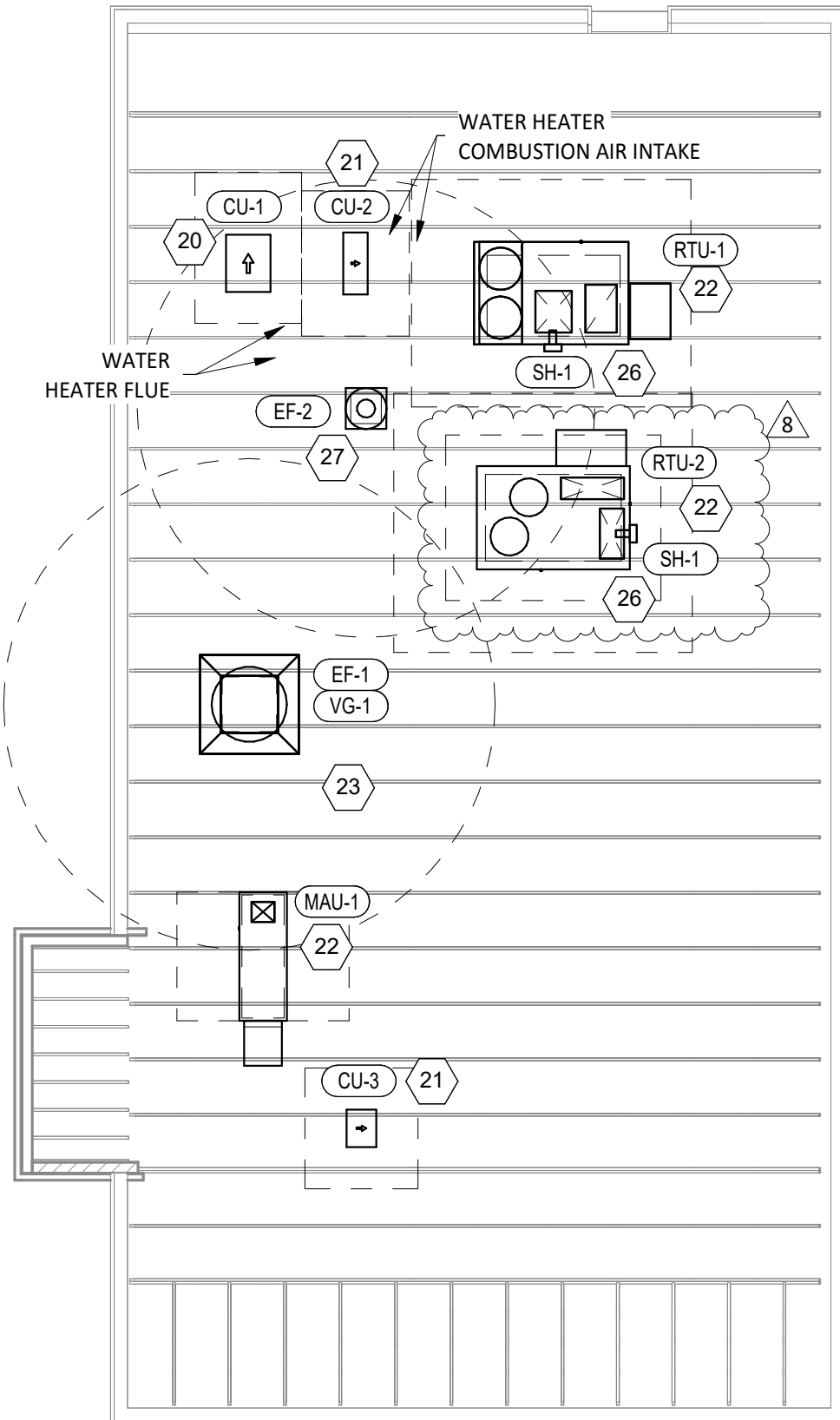


3 M100
1/4" = 1'-0"

HVAC DINING ROOM SECTION

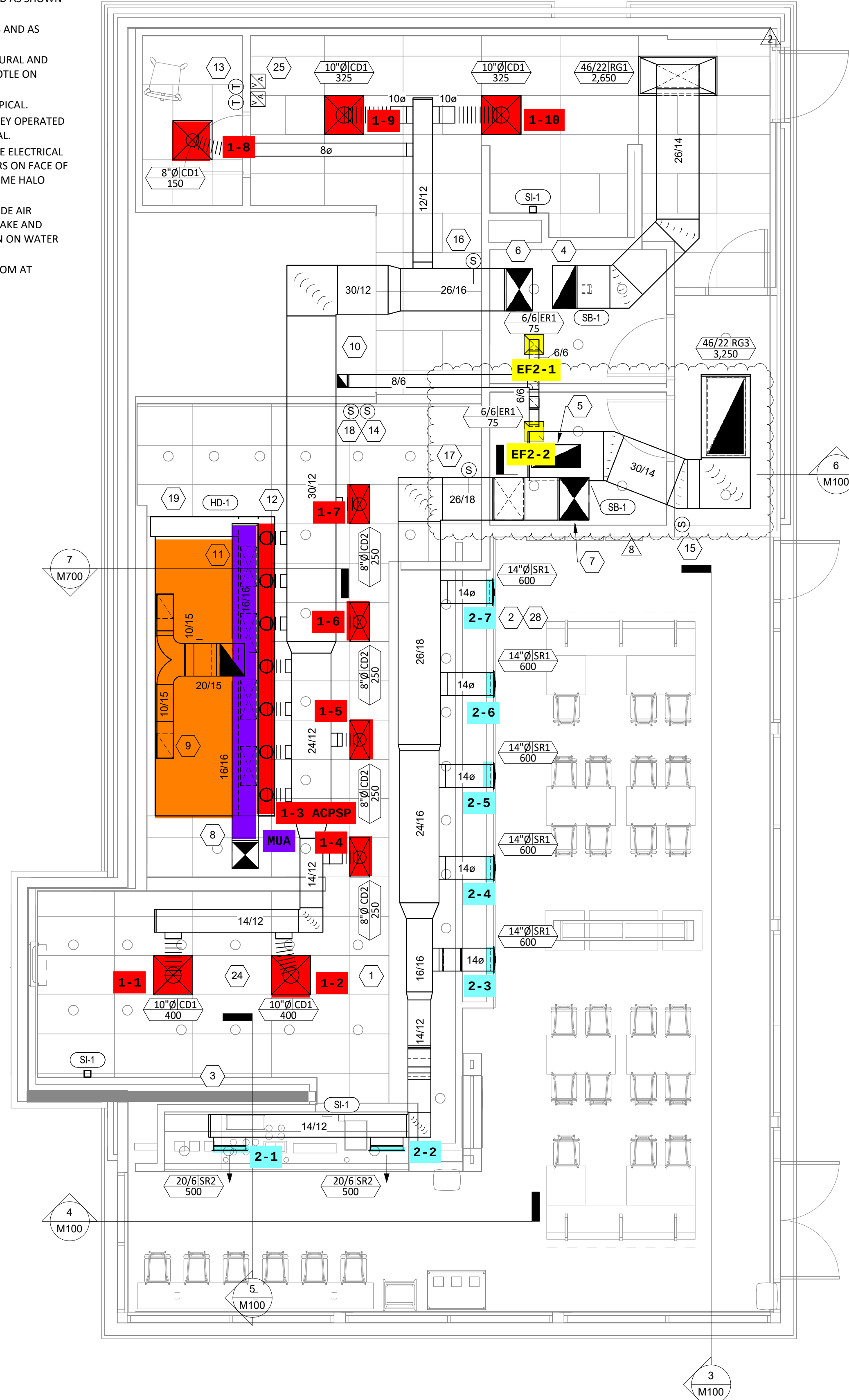
HVAC PLAN NOTES

- INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
- INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
- PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
- INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
- MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
- ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.



2 M100
1/8" = 1'-0"

HVAC ROOF PLAN



1 M100
1/4" = 1'-0"

HVAC FLOOR PLAN

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221026

Contents:

HVAC PLAN

M100

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Contents:

HVAC SCHEDULES

M600

CONTROL FUNCTIONS

- A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	3,200 CFM	-3,200 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,950 CFM	0 CFM	0 CFM	1,950 CFM
RTU-1	3,400 CFM	2,650 CFM	0 CFM	750 CFM
RTU-2	4,000 CFM	3,250 CFM	0 CFM	750 CFM
NET PRESSURIZATION				100 CFM

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD, REMOVE 4-WAY DEFLECTORS
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG3	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	PROVED WITH CONCEALED MOUNTING AND FACE ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	S1DH	PROVIDE WITH INTEGRAL OBD

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

FAN SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	UPBLAST UL762 EXHAUST FAN	3,200 CFM	1.20 in-wg	400 lb	3 hp	208/3/60	HS	GC	CAPTIVE-AIRE	DU240HFA	DIRECT DRIVE UL762 UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.18 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB

VIROGUARD SCHEDULE

TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	18" X 18"	CAPTIVE-AIRE DU240HFA	TDC	GC	ENVIROMATIC

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			COMPRESSORS	CIRCUITS	TYPE	CHARGE		MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	CONDENSING UNIT - WALK-IN COOLER		1	1	R-404A	10.4 lb	250 lb	15 A	9 A	208/3/60	WCS	GC	HARFORD	KPCL99MZOP-3E	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9FZ	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER		0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5FZ	FURNISHED WITH ICE MAKER

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	HEATING			WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				INPUT	OUTPUT	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,950 CFM	0.80 in-wg	225,000 Btu/h	220,000 Btu/h	21 °F	650 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM							PERFORATED SUPPLY PLENUMS							NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS		
			AIRFLOW	E.S.P.	DUCT COLLARS			LENGTH	WIDTH	LENGTH	WIDTH	LENGTH	MAU PLENUM			AC PLENUM									
					NO.	WIDTH	LENGTH						AIRFLOW	NO.	WIDTH	LENGTH					AIRFLOW	NO.		DIAMETER	
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	3,200 CFM	0.86 in-wg	2	10"	1' - 3"	14' - 3"	4' - 3"	15' - 3"	1' - 10"	1,950 CFM	4	10"	2' - 0"	800 CFM	7	8"	10	1,200 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSF-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	AIRFLOW		E.S.P. (IN. W.C.)	NET COOLING CAPACITY				HEATING CAPACITY			WEIGHT	ELECTRICAL			BASIS FOR DESIGN		REMARKS	
			TOTAL	OA		TOTAL (MBH)	SENSIBLE (MBH)	EAT		COND. EAT	INPUT (MBH)	OUTPUT (MBH)		EAT	MOCP	MCA	V/P/H	MANUFACTURER		MODEL
RTU-1	KITCHEN ROOFTOP UNIT	8.5 ton	3,400 CFM	750 CFM	0.8	100.7	69.4	80 °F	67 °F	95 °F	180	144	61 °F	1,350 lb	60 A	48.3 A	208/3/60	YORK	ZJ102N18	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, FACTORY MOUNTED DISCONNECT, & UNIT-MOUNTED FIELD WIRED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	10 ton	4,000 CFM	750 CFM	0.8	119.0	84.0	80 °F	67 °F	95 °F	250	204	60 °F	1,150 lb	60 A	53 A	208/3/60	YORK	ZYG12	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, FACTORY MOUNTED DISCONNECT, & UNIT-MOUNTED FIELD WIRED CONVENIENCE RECEPTACLE

Consultant:



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02/14/2025 CONSTRUCTION ISSUE

Revisions:

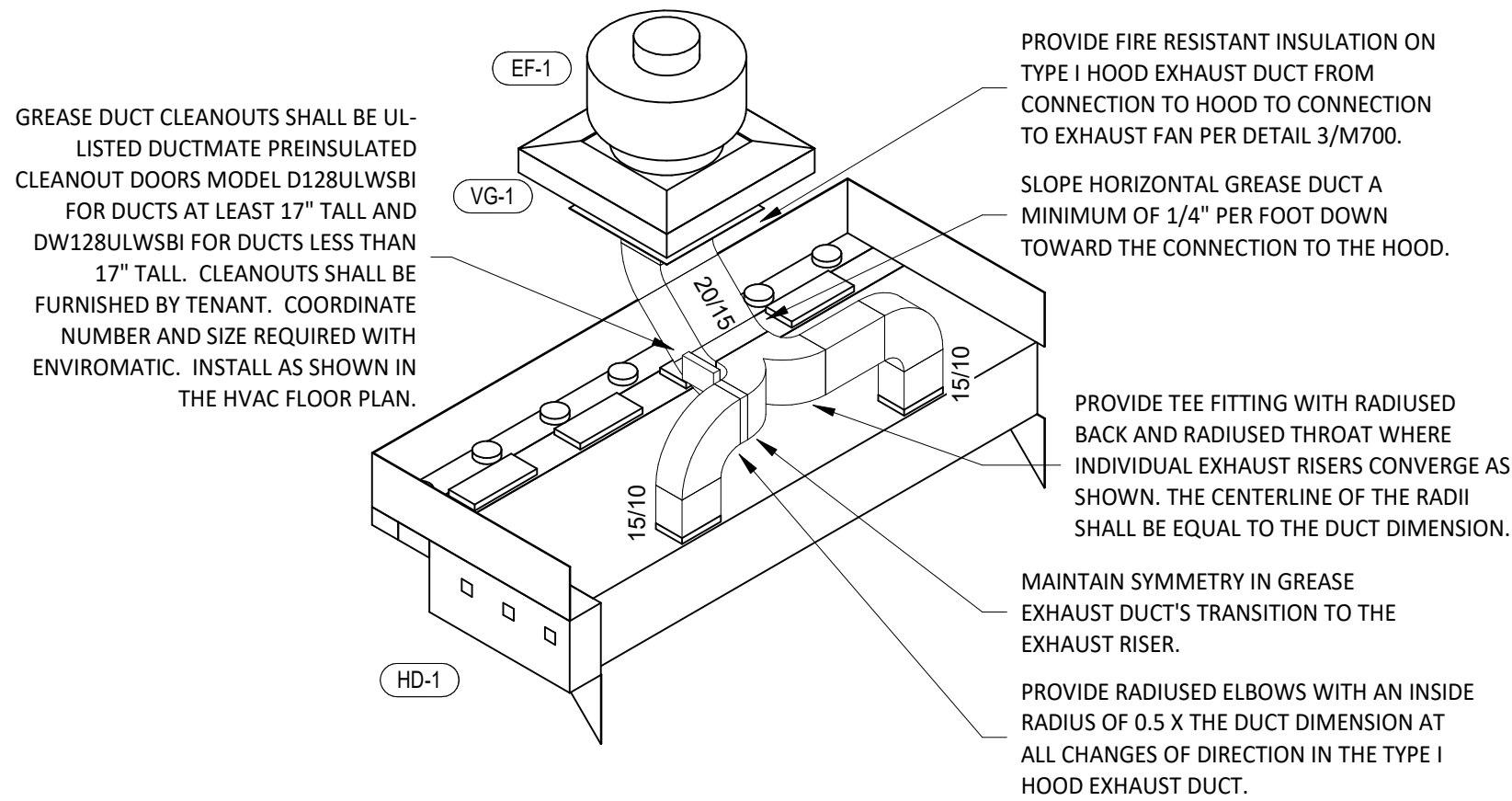
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Project No.
221026

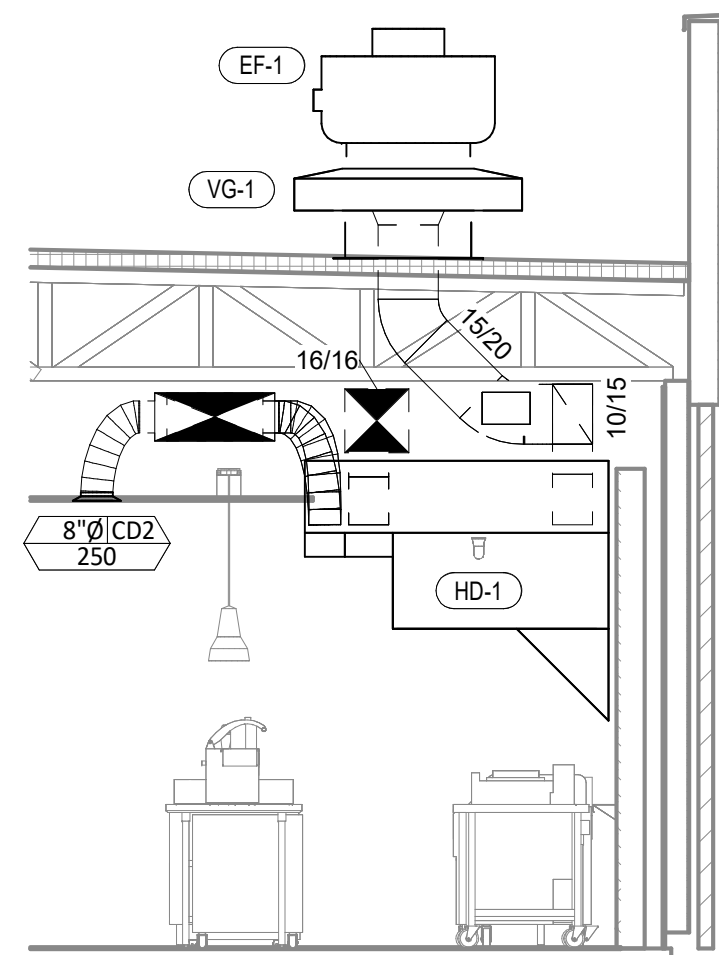
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HVAC DETAILS

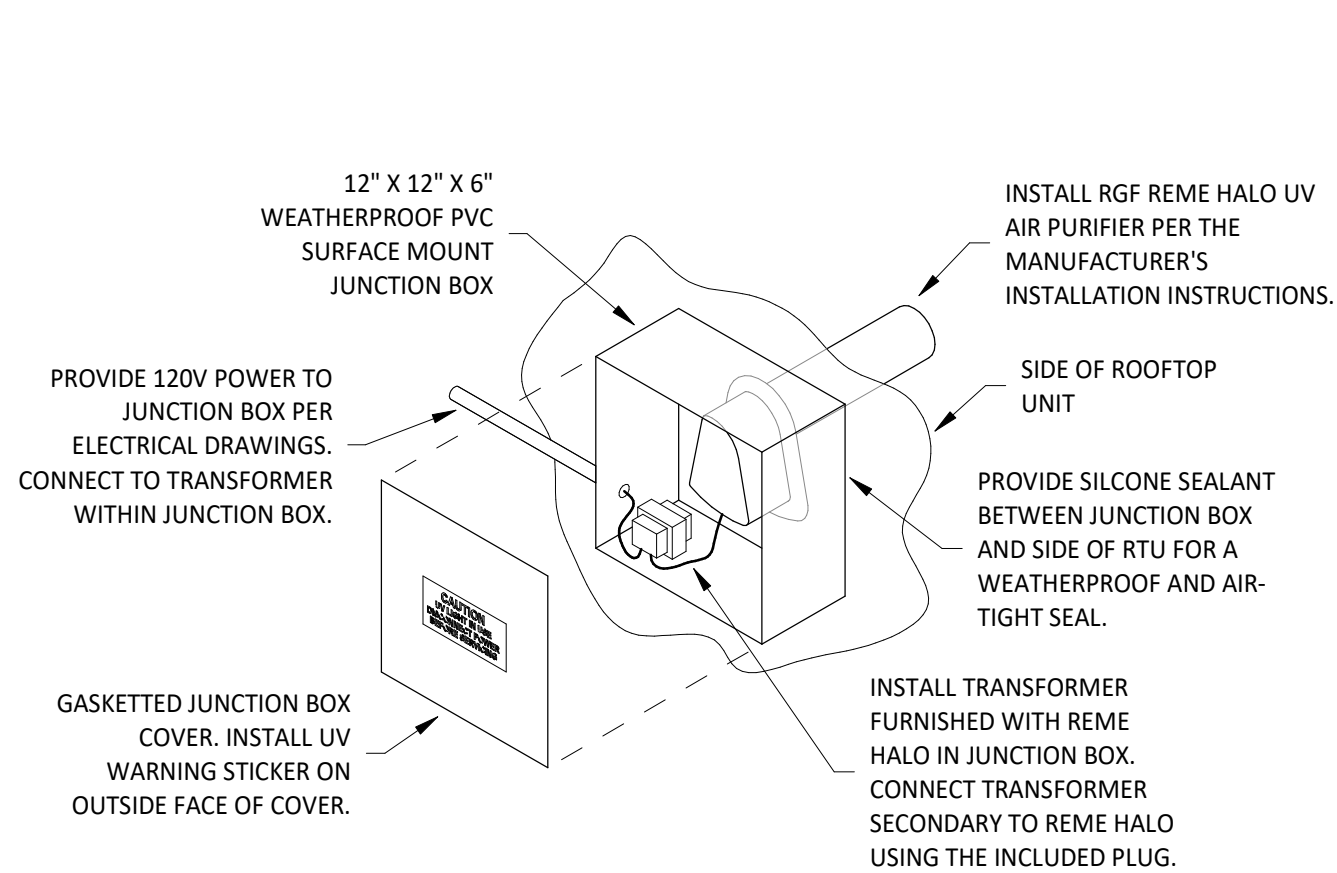
M700



8 HOOD EXHAUST ISOMETRIC
M700 NOT TO SCALE

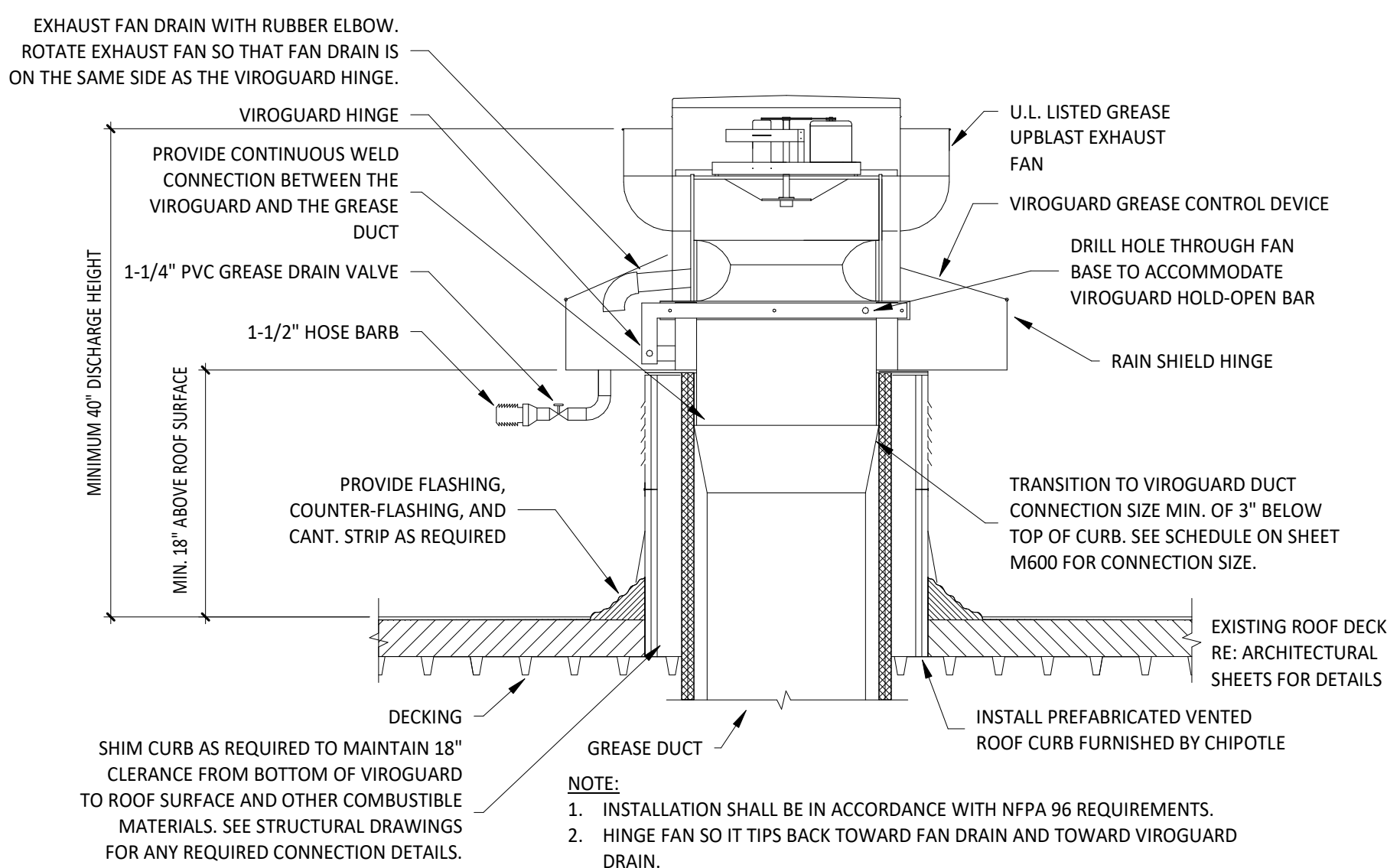


7 DUCT SECTION AT HOOD
M700 1/4" = 1'-0"

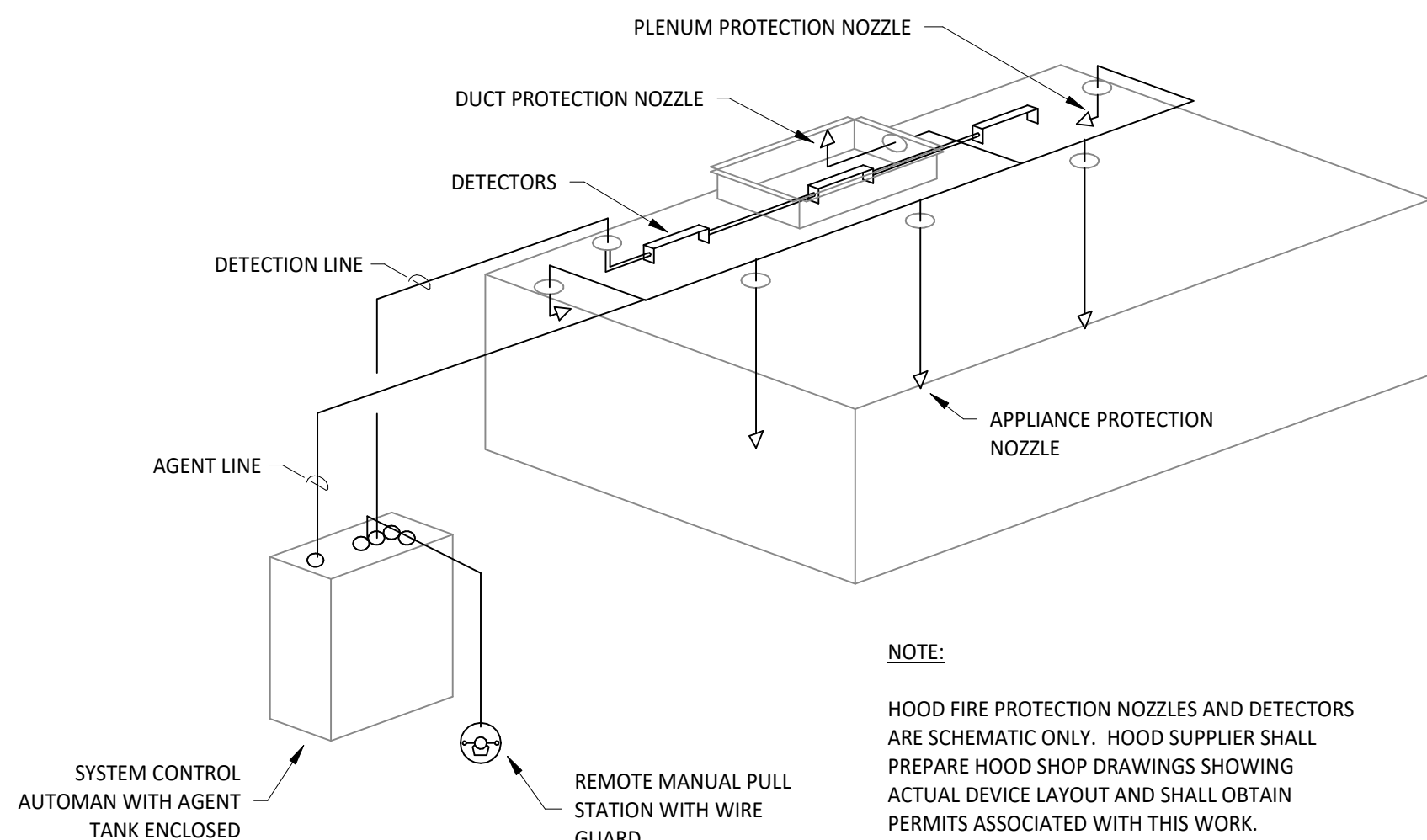


INSTALLATION LOCATION
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:
FRAME: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.
YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

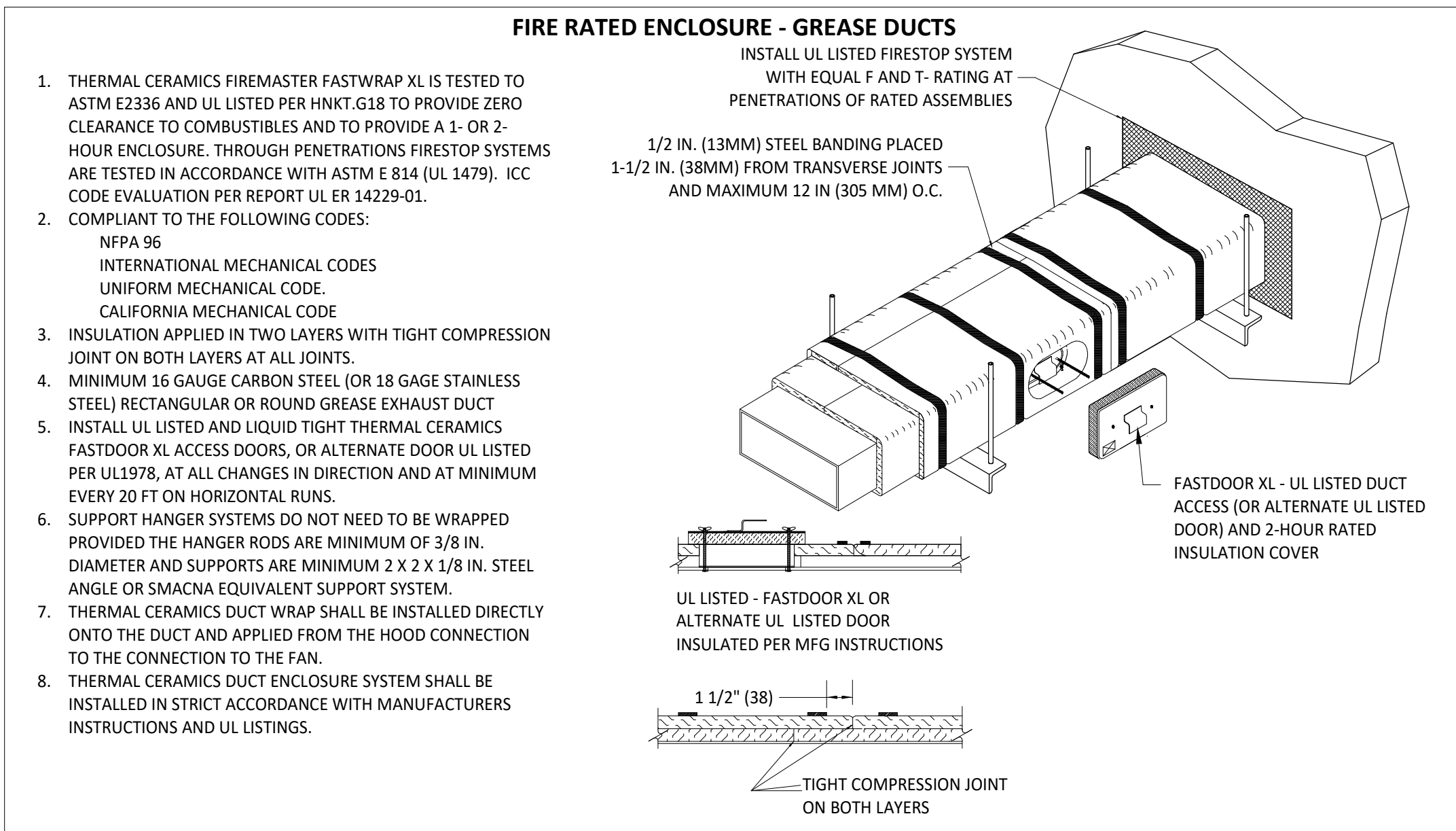
6 UV AIR PURIFIER INSTALLATION
M700 NOT TO SCALE



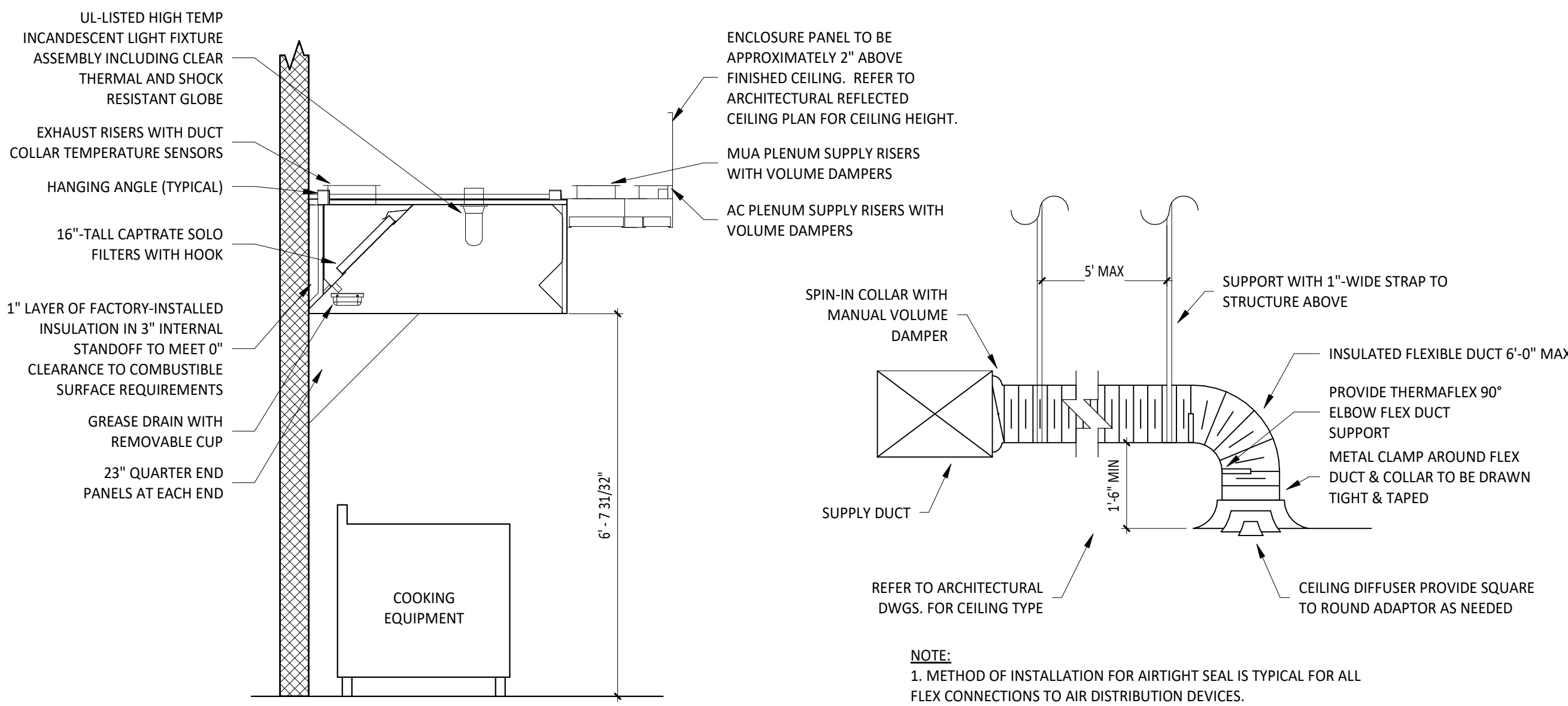
5 GREASE EXHAUST FAN
M700 NOT TO SCALE



4 FIRE SUPPRESSION SYSTEM SCHEMATIC
M700 NOT TO SCALE



3 FIREMASTER DUCT WRAP - UL HNKT-G18
M700 NOT TO SCALE



2 HOOD SECTION VIEW
M700 NOT TO SCALE

1 DIFFUSER CONNECTION
M700 NOT TO SCALE

PLANNING/ZONING City of Lake St. Louis Planning and Zoning Division Lake Saint Louis City Hall 200 Civic Center Drive Lake Saint Louis, Mo. 63367 Phone: (636) 625-1200	HEALTH DEPARTMENT Deann Burwitz St. Charles County Environmental Health 1650 Boone's Lick, Upper Level, Suite D St. Charles, MO 63301 (636) 945-1800 ext. 4285 DBURWITZ@SCCMO.ORG	SEWER/WASTEWATER Duckett Creek Sanitary District 3550 Hwy K O'Fallon, Mo 63368 Customer Service: (636) 441-1244 customerservice@duckettcreek.com
BUILDING DEPARTMENT Lake Saint Louis City Hall 200 Civic Center Drive Lake Saint Louis, Mo. 63367 Phone: (636) 625-1200	WATER MANAGEMENT Public Water Supply District 2 100 Water Dr O'Fallon, MO 63368 Customer Service: (636) 561-3737 info@waterdistrict2.com	NATURAL GAS SERVICE Spire Energy 700 Market St. Saint Louis, MO 63101 Customer Service - Eastern Missouri SpireCustomerCare@spireenergy.com (800) 887-4173
FIRE DEPARTMENT Lake St. Louis Fire Department 1815 Lake St. Louis, Missouri 63367 (636) 561-9200	ELECTRICAL SERVICE Cuivre River Electrical Cooperative 8757 Hwy N Lake Saint Louis, MO 63367 Customer Service: (800) 392-3709 https://www.cuivre.com/commercial-electricity	TELEPHONE AT&T



DEFERRED SUBMITTALS	SCOPE OF WORK
• Signage • Hood suppression system • CO2 plumbing & detection system	Tenant Improvement work for a fast-casual restaurant with a order pick-up lane including a dining room, commercial kitchen, restrooms, HAVC, lighting, and an outdoor dining patio area.

LANDLORD Quattro Development, L.L.C. 1100 Jorie Blvd. - Suite 140 Contact: Mike Lijoes Oak Brook, IL 60523 Office: (630) 891-6473	ARCHITECT Dungan Design Group, LLC 8826 Santa Fe Dr, Suite 304 Overland Park, KS 66212 Contact: Rudy Prins rprins@ddg.biz 913-341-2466 913-341-2455 fax	UTILITY COORDINATOR Gaucher & Associates 2060 Baldwin Court Seaside, CA 93955 Contact: Paul Gaucher paul@gaucherinc.com 831-393-1760 831-393-2858 fax
TENANT Chipotle Mexican Grill PO Box 182566 Columbus, OH 43218-2566 Contact: Heather Grundy heather.grundy@chipotle.com 614-406-2111	MEP ENGINEER Blanchard AE Group 1425 Wakarusa Drive, Suite B Lawrence, KS 66049 Contact: Isaac Dunn IDunn@BAEgroup 785-993-0300	STRUCTURAL ENGINEER Norton & Schmidt Consulting Engineers 311 East 11th Avenue North Kansas City, MO 64116 Contact: Garth Dune garthd@nortonschmidt.com 816-421-4232 816-421-1956 fax

☐	CENTER LINE	GA	GAUGE	SIM	SIMILAR
(E)	EXISTING CONSTRUCTION	GALV	GALVANIZED	SPS	SODA POP SUPPLIER
(N)	NEW CONSTRUCTION	GC	GENERAL CONTRACTOR	SS	SUPPORT SIGNAGE
SS	AT	GYP	GYPSPUM	SSS	CCTV AND SAFE/CASHBOX
Ø	DIAMETER OR ROUND			STR	STRUCTURE
AF	ABOVE FINISH FLOOR	HES	TENANT'S HVAC EQUIPMENT SUPPLIER	T	TENANT
ALUM	ALUMINUM	HS	HOOD SUPPLY	T.B.D.	TO BE DETERMINED, SEE FIELD REFERENCE MANUAL
ARCH	ARCHITECT(URAL)	HVAC	HEATING AND VENTILATING	T.O.	TOP OF
AS	ART AND CHAIRS SUPPLIER			TAB	TENANT'S TEST & BALANCE VENDOR
ASS	ALARM SYSTEM SUPPLIER	INT	INTERIOR	TCC	TENANT'S CABLING CONTRACTOR
		KES	KITCHEN EQUIPMENT SUPPLIER	TCD	TENANT'S DUCT CLEANER
B.O.	BOTTOM OF OR BACK OF			THS	TENANT'S HARDWARE SUPPLIER
BD	BOARD	MAX	MAXIMUM	TLS	TENANT'S LIGHTING SUPPLIER
BLDG	BUILDING	MECH	MECHANICAL	TMB	TENANT'S MENU BOARD SUPPLIER
		MFR	MANUFACTURER	TMS	TENANT'S MILLWORK SUPPLIER
C.O.	CENTER OF	MIN	MINIMUM	TP	TENANT'S PHONE SUPPLIER
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS	TRS	TENANT'S RAILING SUPPLIER
CO2	CO2 SUPPLIER	MSS	MUSIC SYSTEMS SUPPLIER	TS	TENANT'S SAFE SUPPLIER
CS	CHEMICAL SUPPLIER			TSS	TENANT'S SMART SAFE SUPPLIER
		N.I.C.	NOT IN CONTRACT	TSV	TENANT'S SIGN VENDOR
DM	DIMENSION(S)	NO	NUMBER	TUV	TENANT'S UV SUPPLIER
				TYP	TYPICAL
EA	EACH	OC	ON CENTER		
EL	ELEVATION (VERTICAL HEIGHT)	OSB	ORIENTED STRAND BOARD	U.N.O.	UNLESS NOTED OTHERWISE
ELEC	ELECTRIC(AL)			UPS	UNINTERRUPTED POWER SUPPLY
ELEV	ELEVATION	PHS	PHOTOGRAPHY SUPPLIER		
EQ	EQUAL	POS	POINT OF SALE	VAR	VARIES
EXT	EXTERIOR	PREP	PREPARATION		
		PVC	POLYVINYL CHLORIDE	WI	WITH
F.O.	FACE OF			WA	WASHROOM ACCESSORIES
F.V.	FIELD VERIFY	R	RADIUS	WCS	TENANT'S WALK-IN COOLER SUPPLIER
FRP	FIBERGLASS REINFORCED PANEL	RTU	ROOF TOP UNITS	WHS	WATER HEATER SUPPLIER
FRT	FIRE RETARDANT-TREATED			WS	TENANT'S WINDOW SHADE SUPPLIER

	ELEVATION REFERENCE		ROOM NAME & NUMBER
	SECTION REFERENCE		REVISION NUMBER
	DETAIL REFERENCE		DOOR NUMBER
	COLUMN GRID LABEL		MISCELLANEOUS EQUIPMENT NUMBER
	WALL TAG		FURNITURE NUMBER
	LEVEL TARGET		KITCHEN EQUIPMENT NUMBER
	NORTH ARROW		WASHROOM ACCESSORIES NUMBER

SHEET NO.	SHEET NAME	REVISIONS												
		1	2	3	4	5	6	7	8	9	10	11	12	13
GENERAL														
G000	Project Data			•				•						
G010	Architectural Specifications													
G011	Architectural Specifications													
G012	Architectural Specifications													
G013	Architectural Specifications	•												
G014	Architectural Specifications													
DEMOLITION														
D101	Demised Premises Plan													
SITE														
SP100	Architectural Site Plan													
ARCHITECTURAL														
A101	Slab Work Plan			•		•								
A110	Architectural Floor Plan				•									
A120	Finish Plan													
A130	Fixtures, Furniture & Equipment Plan	•	•		•									
A131	Fixtures, Furniture & Equipment Schedules													
A132	Fixtures, Furniture & Equipment Schedules	•	•		•									
A140	Architectural Roof Plan													
A201	Reflected Ceiling Plan		•											
A210	Ceiling Details													
A211	Lighting Details													
A301	Exterior Elevations													
A501	Architectural Wall Types													
A502	Interior Sections				•	•								
A601	Door & Hardware Schedule				•									
A701	Elevations - Interior Dining													
A702	Elevations - Interior Kitchen													
A710	Toilet Room Details													
A801	Finish Details													
A802	Finish Details													
A900	Interior Perspectives													
STRUCTURAL														
S1	Notes & Sections							•						
S2	Roof Framing Plan			•										
HVAC														
M010	HVAC Specifications													
M100	HVAC Plan													
M600	HVAC Schedules								•					
M700	HVAC Details													
PLUMBING														
P010	Plumbing Specifications													
P100	Plumbing Plan Water & Gas								•	•				
P110	Plumbing Plan Waste & Vent	•												
P600	Plumbing Schedules	•							•					
P700	Plumbing Details	•							•					
ELECTRICAL														
E010	Electrical Specifications	•												
E100	Electrical Lighting Plan													
E110	Electrical Power Plan							•						
E115	Electrical Site Power Plan													
E600	Electrical Schedules	•					•	•						
E700	Electrical Interior Elevations	•												
E705	Electrical Interior Elevations													
E710	Electrical Details	•					•	•						

SHOPPES AT HAWK RIDGE

KS-96

I-64

TOWN SQUARE AVE.

GREENWICH RD

HWY N

OLD HWY N

CHIPOTLE
MEXICAN GRILL

G000

SECTION 07512 - ROOFING SYSTEM REPAIR

- 1.1 General: When penetration of the existing roofing system is required to accommodate new construction, perform necessary roofing system repair.
- A. Coordination: Before starting work, verify with the Tenant's Construction Manager and the Owner the following:
- Existing roof system materials and installation methods.
 - Repair work responsibilities and warranty requirements. To maintain original warranty, where provided use original roof contractor.
- B. Qualifications: Repair work shall be performed only by an experienced roofing installer approved or licensed by the existing roofing system materials manufacturer; with not less than five years of successful experience installing and repairing roofing systems similar to this projects existing roofing system.
- 2.1 Materials:
- A. Provide and install only materials approved and recommended by the roofing manufacturer for repairing the existing roofing system.
- 3.1 Installation:
- A. Preparation: Inspect roof surface conditions with roof manufacturer's representative to verify extent and location of any other repairs required to ensure a watertight roofing system upon completion of the repair work.
- B. Make necessary repairs. Match existing roof slope, insulation materials and roofing membrane materials, except as otherwise approved by the existing roofing system manufacturer to accommodate new construction and repair work.
- C. Install curb flashing furnished by mechanical and electrical trades for new roof top equipment.

Section 07900 – JOINT SEALERS

- 1.1 General: Provide joint sealers as shown and specified.
- A. Standards: Comply with ASTM C 920 requirements.
- B. Application: Performed by skilled, experienced joint sealer applicators.
- 2.1 Materials:
- A. Poly urethane sealants:
- Tremco Commercial Sealants (800) 321-7906, internet www.tremcosealants.com,
 - "Dymonic FC" One component, fast skinning, Low Modulus Polyurethane.
 - "Dymeric 240 FC" Multi Component, gun grade, chemically curing, tintable fast setting polyurethane sealant.
 - Sonneborn, (724) 756-9582, internet www.sonneborn.com
 - Color pack for polyurethane multi component, gun grade chemically curing sealant.
- B. Silicone Sealants:
- General Electric Silicones, (800) 295-2392, internet www.gesilicones.com
 - "SCS1700 Sanitary – Mold/Mildew Resistant Silicone", one component 100% silicone, fungicidal based sealant.
 - "SCS2700 Silpruf Silicone" one component medium modulus, natural cure silicone all purpose sealant.
 - "Silglaze II SCS2800- Glazing Sealant" one component, 100% silicone based sealer.
 - "GE Paintable Silicone" one component paintable silicone.
 - "SCS1009 Silicone Sealant" one-component acetoxy silicone for general purpose sealing and bonding
 - Dow Corning Silicones, (989)496-4000, www.dowcorning.com
 - "Dow 795" – one component, medium modulus, natural cure silicone.
- C. Firestopping Sealants: 3M Fire Protection Products, (800) 328-1687, internet www.3m.com/firstop
- "3M Fire Barrier CP 25WB+ Caulk" or approved equal
- D. Joint backing: Non-absorptive, non-staining compressible, non-gassing, polyethylene foam backed rod compatible with joint sealants.
- 3.1 Installation:
- A. Preparation: Clean and prepare joints prior to installing sealers:
- Wipe shipping oils from surfaces to be sealed. Remove protective films and/or install joint backer rod if joint is larger than ¼" in width.
- B. Installation: Install joint sealant materials in strict accordance with manufacturer's installation instructions.
- Apply sealants in a uniform, continuous bead without gaps or air pockets. Hand tool and finish all joints so that a smooth, small, lip free uniform line is created along the substrate being shot. Remove any excess materials from tooled edges and ends of joint.
 - Install joint sealants to a depth no more than ¾ the width of the joint.
 - Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.
 - Immediately, after sealant application, and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated to eliminate air pockets, and to ensure contact and adhesion of sealant with sides of joint. Remove excess sealants from surfaces adjacent to joint. Do not use tooling agents which discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
 - Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

4.1 Sealant Schedule:

- A. Kitchen Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 - Ceiling grid to FRP wall panels
 - Base of FRP wall panels to T.O. specified base material.
 - Walk in cooler walls to FRP wall panels.
 - Stainless closure pieces at cooler walls to FRP wall panels.
 - FRP/stainless corner guards to FRP wall panels.
 - Ceiling tile pipe penetrations.
 - Wall pipe penetrations and/or escutcheons perimeters. (water & gas lines).
 - Mop sink stainless surround perimeter to walls.
 - FRP closure panel, at top of cooler, to cooler walls.
 - FRP wall panels to hollow metal door frames.
 - Coke line bundle to PVC cap.
 - FRP inside corner pieces to FRP wall panels. Both sides of corner piece.
 - Battery backup cover panel to FRP.
 - Faucet's to FRP wall panels.
 - FRP wall panels to quarry tile cove base.
 - FRP to aluminum plate at walk thru.
 - Menu board light bracket to ceiling.
 - Mop sink base at quarry tile.
 - All sinks (multi-compartment, hand, mop and prep) to FRP/tile walls.
 - Paper towel dispensers & soap dispensers to FRP/tile walls.
 - Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
 - Stainless closer pieces, at sides of cooler walls - to cooler walls.
 - Stainless or aluminum plate closure pieces to diamond plate at cooler walls.
 - Diamond plate panel seam joints.
 - Diamond plate perimeter to cooler walls.
 - Base of diamond plate to quarry tile cove base.
 - Stainless closure panel, at top of cooler walls, to cooler walls.
 - Top of quarry tile cove base to cooler walls at inside of cooler.
 - Cooler wall/diamond plate penetrations.
 - Cooler door hinges and handles to diamond plate. DO NOT caulk door locking unit.
 - Stainless wrap at hollow metal door frame.
 - Stainless mop surround to stainless corners on mop sink.
 - Base of stainless corner pieces to schlutter strip at base.
 - Exit door threshold perimeters. To frame and floor, interior and exterior.
 - Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
 - Base of hollow metal door jambs to quarry tile floor.
- B. Managers Office:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 - Ceiling grid to FRP wall panels.
 - Perimeter of manager's desk to FRP wall panels.
 - Hollow metal door frame to FRP wall panels.
 - Top and ends of coat hanger bracket to FRP walls.
 - Base of FRP wall panels to quarry tile base.
 - Ceiling tile wire/pipe penetrations.
 - FRP inside corners to FRP wall panels. Both sides of corner piece.
 - Base of FRP wall panels to quarry tile.
 - Provide a continuous bead of black or light bronze (use color of safe) GE SCS2000 silicone at the following locations:
 - Base of safe to floor.
- C. Cooking Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 - Top of wall tile to sheetrock ceiling.
 - Ceiling diffusers perimeters to sheetrock ceiling.
 - Ceiling pipe penetrations.
 - Wall tile to aluminum walk thru surround.
 - Tile wall penetrations/escutcheons perimeters.
 - FRP wall panels to sheetrock ceilings.
 - FRP wall panels to aluminum end wall plates.
 - FRP inside corners to FRP wall panels. Both sides of corner piece.
 - Sink to white wall tile.
 - Paper towel dispenser/soap dispenser to white tile.
 - POS/Serving counter to wall tile.
 - Stainless shelf behind grill to wall tile.
 - Faucets to ceramic wall tile.
 - Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
 - Joint between hood and closure skirt.
 - Joint between hood support and hood. Both sides.
 - Connection joint between stainless shelf behind grill.
 - Hood to tile walls & sheetrock ceiling.
 - Hood gusset to wall tile on both sides.
 - Sink to bronze wall tile.
 - Paper towel dispenser/soap dispenser to bronze tile.
 - DML counter to bronze tile.
 - Provide a continuous bead of dark gray GE SCS2000 at the following locations:
 - Base of equipment to concrete curbs/quarry tile.
 - Provide a continuous bead of bronze GE SCS2097 at the following locations:
 - Ceramic tile inside corners.
 - Ceramic tile to aluminum end wall plates.
- D. Restrooms:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 - Top of FRP to sheetrock ceiling or top of FRP trim to sheetrock wall.
 - Perimeter of toilets/urinals to floor or FRP.
 - Perimeter of mirror to FRP.
 - Sink to wall.
 - Perimeter of paper towel/garbage unit to wall.
 - Toilet paper/napkin disposal units to walls.
 - Stainless shelf to wall.
 - Wall penetrations under sink and or escutcheons to perimeters.
 - Hollow metal door frames to FRP.
 - Base of FRP wall panels to top of wall base.
 - FRP inside corners to FRP wall panels.
 - Provide a continuous bead of black GE SCS2000 silicone at the following locations:
 - Base of black rubber wall base to floor.
 - Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
 - Base of hollow metal door frames to floor.
- E. Dining area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 - Wall tile to sheetrock walls.
 - Perimeter of aluminum storefront/windows/entrances to sheetrock walls.
 - Wainscot wall panels (Stonewood or other) to painted walls.
 - Diffuser/louvers perimeters to sheetrock walls.
 - Hollow metal door frames to painted walls - if needed.
 - Frame of service line counter to tile (joint to be caulked behind front face panels of counter).
 - Wall tile at serving line wall to POS counter.
 - Provide a continuous bead of black GE SCS2000 silicone at the following locations:
 - Base of black rubber to floor (concrete or quarry tile) and gyp. bd. wall.
 - Wainscot (Stonewood or other) wall panels to sill of aluminum storefront/ windows.
 - Vertical edge of wainscot (Stonewood or other) wall panels to frames/painted walls/tile (ONLY if joint is uneven or plywood is showing).
 - Stonewood panels at serve line.
 - Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
 - Base of garbage surround to floor.
 - Provide a continuous bead of Dow 795 silicone at the following locations:
 - Sill of aluminum storefronts to concrete or tile floor. Color to be determined per store to match storefront (Charcoal/Anodized Aluminum/Dark Bronze).
- F. Utensil Counter:
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
 - Stainless countertop to backsplash. Horizontal & vertical joints.
 - Base of Coke machine to countertop.
 - Perimeter of tea drain tray to countertop.
 - Stainless backsplash to white tile walls/painted walls.
 - Provide a continuous bead of white GE SCS1700 silicone at the following locations:
 - Coke line bundle to PVC cap.
- G. Fire Rated Walls:
- Provide a continuous bead of 3M 25WB+ at the following locations:
 - Wall/ceiling penetrations in rated walls.
- H. Exterior Joints:
- Provide a continuous bead of Tremco Dymeric limestone urethane sealant at the following locations:
 - Sidewalk/concrete expansion joints.
 - Provide a continuous bead of Dow 795 silicone or Tremco Dymeric 240 FC at the following locations:
 - Hollow metal door frames.
 - EIFS to abutting services.
 - Penetrations in EIFS.
 - Face brick or block control joints.
 - Perimeter of Aluminum Storefronts.*Colors to be determined per store to match adjacent material colors. Verify with Chipotle Construction Manager and Architect.
 - Provide a continuous bead of aluminum GE SCS1009 silicone at the following location:
 - CO2 fill port stainless box.
 - Faucet for hose. (Please note: color to be determined per store. Verify with Chipotle Construction Manager and Architect).

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

- 1.1 General: Tenant to provide steel doors and frames as shown and specified.
- A. Standards: Materials and construction shall conform to the following:
 - ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."
 - ANSI A250.11-01 "Erection Instructions for Steel Frames."
 - SDI 122-99 "Installation for Standard Steel Doors and Frames."
- B. Manufacturer: A member of the Steel Door Institute (SDI).
- 2.1 Materials:
- A. Steel Doors:
 - Interior: Heavy-duty Level 2, physical performance B, Model 2 seamless construction, ASTM A1008, 18 gage cold-rolled steel face sheets, manufacturer's standard core.
2. Exterior: Extra heavy-duty Level 3, physical performance A, Model 2 seamless construction, ASTM A1008, 16 gage cold-rolled steel face sheets; tops and bottoms closed with flush galvanized steel caps, manufacturer's standard plastic foam insulating core.
- B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel.
 - Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated.
 - Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.
- C. Door and frame fabrication:
 - Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers.
 - Punch frames and factory install rubber door silencers.
 - Provide minimum three anchors of suitable design for each jamb.
 - Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.
- D. Shop painting: Clean and paint exposed surfaces of steel door and frame units. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ANSI A250.10, unless doors and frames are used at the restrooms or as indicated on door hardware and finish schedule. Provide a uniformly finished surface ready to receive finish paint.
- 3.1 Installation:
- A. Install frames plumb, level, rigid, and in true alignment as recommended in ANSI A250.11.
- B. Install doors plumb and in true alignment and fastened to achieve the maximum operational effectiveness and appearance as recommended in SDI 122.

SECTION 08710 - DOOR HARDWARE

1.1 General: Provide door hardware as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
 - ANSI A117.1-2009 Accessible and Usable Buildings and Facilities.
 - ANSI/BHMA A156 Series Builders Hardware
- B. Quality Assurance:
 - Codes and standards: Provide hardware complying with local Building Code requirements and the Tenant's standards for keying and security systems.
 - Project scheduling: Performed by an Architectural Hardware Consultant (AHC).
 - Package each item of hardware and each lockset, complete with all screws, anchors, installation instructions and templates. Identify package indexing with corresponding item number of the hardware schedule.
 - After hardware schedule acceptance, provide necessary templates or physical hardware to required trades for cutting, reinforcing, or preparing their products to receive hardware. Furnish templates to metal door manufacturer's.
- 2.1 Materials:
- A. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.
- B. Review the keying system with the Tenant and provide the type required.

3.1 Installation

- A. Install each hardware item in strict accordance with manufacturer's installation instructions and recommendations. Securely fasten all attached parts. Fit faces of mortised parts snug and flush. Verify operating parts move freely and smoothly without binding or sticking, without excessive clearance.
- B. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as required for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- C. Mount hardware units at heights indicated in DHI "Recommended Locations for Builders Hardware", unless otherwise required to comply with requirements of governing codes and regulations. Conform to ANSI A117.1 and ADAAG guidelines for accessibility.
 - Top Butts: 5 inches; top of butt from head of frame.
 - Middle Butts: 3'-2", centerline from finish floor.
 - Bottom Butts: 5 inches; finish floor to bottom of butt.
 - Locks: centerline from finish floor per hardware schedule.
 - Knobs: 3'-2", centerline from finish floor.
 - Pulls: centerline from finish floor per hardware schedule.
 - Pushes: centerline from finish floor per hardware schedule.

DIVISION 9 -- FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1.1 General: Provide gypsum board systems as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
 - GA 214-90 "Levels of Gypsum Board Finish."
 - GA-216 "Specifications for Application and Finishing of Gypsum Board."
 - USG "SA923 Drywall/Steel Framed Systems."
- 2.1 Materials:
- A. Manufacturer: United States Gypsum Co. (USG), (800) 874-4968, internet www.usg.com.
- B. Metal framing: Comply with ASTM C 754 and ASTM C 645 for materials and sizes.
 - Partition metal framing:
 - Studs: Galvanized steel, C-shaped, sizes indicated, 20 gage "ST20"
 - Runners: Match studs, type recommended by stud manufacturer for floor and ceiling support of studs. Provide flexible ceiling runners for full height metal stud framed partitions continuous from floor to underside of structural members or deck above.
 - Ceiling and Soffit metal framing/suspension systems:
 - Small areas: Metal stud framing of appropriate size and gage for spans indicated.
 - Large areas: Furring channel "Grillage" or "Direct Suspension System" designed for concealed support of gypsum board ceilings, of proper type for use indicated.
 - Furring members: 20 gage, galvanized steel screw type, hat-shaped furring.
- D. Gypsum board panels: USG "Sheetrock" complying with ASTM C1396, tapered edge face panels, 48" wide, in maximum lengths available to minimize end joint conditions, 5/8" thick.
 - General use panels: Sheetrock Regular panels.
 - Fire rated panels: Sheetrock Firecode Core panels.
 - Water-resistant: panels: Sheetrock HUMITEK panels.
- E. Cement board: USG DUROCK Cement Board, 5/8" thick x manufacturer's standard width, complying with ANSI A118.9, and in maximum lengths available to minimize end-to-end butt joints.

- F. Fasteners: USG Type "S" bugle head screws for metal framing, USG Type "W" bugle head screws for wood framing, manufacturer's recommended length for panel thickness indicated.
- G. Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 2008 casing bead metal trim, No. 093 Control Joint.
- H. Joint treatment: USG Joint Treatment System, utilizing "Sheetrock Brand Joint Tape", and "Sheetrock Brand Setting-Type (DURABOND)" compound for tape bedding and topping.
- I. Adhesives: USG "Sheetrock Brand Setting-Type (DURABOND) 210 or 90" compound for tape bedding and topping.
- J. Acoustical sealant: USG Sheetrock Acoustical Sealant, water-base type, gunnable sealant for sealing sound-rated gypsum board systems.
- K. Sound attenuation insulation: USG Thermafiber unfaced 3-1/2" thick, mineral fiber insulating batts/blankets; standard lengths and widths required to coordinate with spaces insulated.

3.1 Installation

- A. Install metal wall and partition framing and ceiling suspension/ support systems in accordance with USG Bulletin SA 923 and complying with ASTM C754.
 - Ceiling suspension/ support systems: Metal furring system/direct suspension or steel stud framing system.
 - Wall and partition framing:
 - Install steel studs per schedule or at spacing indicated with bottom and top runner tracks anchored to substrates. Provide flexible ceiling runner tracks at full height partitions.
 - Terminate partition stud system 4" above ceilings, except where indicated to be extended to structural support or roof deck above. Brace top of partition framing to structure or roof deck at maximum 4'-0" on center spacing.
 - Frame openings more than 2'-0" wide with two 20 gage studs at each jamb.
 - Coordinate the installation of supplementary blocking and nailers, provided under Section 06100 work, to support shelving, millwork, toilet accessories, and similar work that cannot be adequately supported by gypsum board alone.
- B. Application and Finishing: Install and finish gypsum board to comply with ASTM C 840 and Gypsum Association GA 216 "Recommended Specifications for the Application and Finishing of Gypsum Board."
 - Screw fasten all gypsum board panels.
 - Metal Trim: Install metal corner beads at external corners of gypsum board work and metal trim wherever edge of gypsum board would be exposed. Use longest practical lengths.
 - Control joints: Locate and install control joints in accordance with USG Bulletin SA923 "Good Design Practice" recommendations.
- C. Acoustical Treatment:
 - Where sound-attenuation insulation is indicated, seal gypsum board construction at perimeters, control joints, junction boxes, openings and penetrations with a continuous bead of acoustical sealant including a bead at both faces of partitions.
 - Install sound attenuation insulation at scheduled partitions and ceilings. Install insulation in single layer of required thickness. Extend full thickness over entire area to be insulated. Cut and fit tight around obstructions. Fill all voids.
 - At openings and cutouts, fill open spaces between edges of gypsum board and fixtures, cabinets, ducts, and other flush or penetrating items, with continuous bead of acoustical sealant.
 - Seal sides and backs of electrical boxes to completely close up openings and joints with a bead of acoustical treatment.
- D. Finishing:
 - Comply with manufacturer's instructions for mixing, handling, and application of materials. Apply treatment at joints both directions, at flanges of trim accessories, penetrations of gypsum board (electrical boxes, piping, and similar work), fastener heads, surface defects, and elsewhere as indicated. Apply in manner that will result in each of these items being concealed when applied decoration has been completed.
 - Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.
 - Interior Exposed Gypsum Board Finish: Level 5 Finish.
 - Locations: Typical for all walls and ceilings, unless otherwise indicated
 - Finish interior gypsum board by applying the following joint compounds in four coats (not including prefill of openings in base), and sand between coats and after last coat:
 - Embedding and First Coat: Setting-type joint or taping compound.
 - Fill (Second) Coat: Setting-type topping compound.
 - Fill (Third) Coat: Setting-type topping compound.
 - Finish (Fourth) Coat: Skim coat entire surface.
 - Interior Concealed Gypsum Board: Level 3 Partial Finishing.
 - Finish concealed gypsum board construction that requires finishing same as exposed gypsum board construction, except the third coat and sanding can be omitted.
- E. Cement Board: Install cement board as a 16" high base at all kitchen and kitchen cook line wall types as indicated on drawings.

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

1.1 General: Provide Fiberglass-mat faced, moisture resistant gypsum backer board as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
 - ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
 - ASTM C1002 Standard Specification for Steel Self Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
 - ASTM C1178 Standard Specification for Glass Mat Water-Resistant Gypsum Backing Panel
 - ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
 - ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers.
 - ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials
 - Tile Council of North America, Inc. (TCNA): TCA Handbook for Ceramic Tile Installation, Current Edition.
- 2.1 Materials:
- A. Manufacturer: Georgia-Pacific Gypsum LLC, (800) 225-6119, internet: www.buildgpc.com
- B. Fiberglass-Mat Faced Gypsum Backing Board: DensShield Fireguard Tile Backing Board complying with ASTM C1178, Type X, Square edges, 4' wide in maximum lengths available to minimize end joint conditions, 5/8" thick. Surfacing: Coated fiberglass mat on face, back and long edges.
 - General use panels: 5/8" DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.
- C. Fasteners: Screws meeting ASTM C1002, with corrosion resistant treatment. Size and type per manufacturer's recommendations:
 - Walls (Steel Frame): Bungle head, fine thread, sharp point rust resistant drywall screw
 - Walls (Walls Frame): Bungle head, coarse thread, sharp point rust resistant screw
- D. Metal Framing, Trim, joint treatment, adhesives, acoustical sealant, and sound attenuation insulation: Refer to Section 09260 Gypsum Board Systems
- 3.1 Installation
- A. Install DensShield at all tile walls excluding hood area as indicated on drawings.
- B. General: Install in accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for Ceramic Tile Installation.
 - Manufacturers Recommendations: refer to Current "Product Catalog", Georgia Pacific, Gypsum.
 - Attach DensShield Tile Backer with grey side facing the interior. Tile should be applied on the grey coated side of DensShield Tile Backer. Cut panel to required size and make cutouts. Fit ends and dges closely. Do not leave gaps between panels.
 - DensShield Tile Backer may be cut by using a utility knife to score, then snap, working from the grey face side.
 - For walls, when used as a tile substrate a minimum 20-gauge steel or wood framing should be spaced no greater than 24" o.c. for 5/8" DensShield Tile Backer. Board can be applied horizontally or vertically.
 - Fasteners shall be spaced 6" o.c. for walls for wood and steel framing. Do not countersink. Drive fasteners flush with grey coated surface. See manufacturer installation Fastener Guide for proper selection.
 - In all corners, imbed with a bead of flexible sealant when installing panels into corner. Apply self-adhesive 2" wide fiberglass mesh tape and bed tape on all joints and corners with material used to set tiles.
 - Caulk or seal fixture/plumbing penetrations and abutments to dissimilar materials.
 - Do not use all purpose joint compound or tape in wet areas.
 - Do not apply DensShield Tile Backer directly to concrete or masonry block. Framing or furring of the walls is necessary.
 - DensShield Tile Backer should not be used for exterior installations.
 - DensShield Tile Backer panels should not be used as a base for nailing and mechanical fastening.
 - DensShield Tile Backer has a built in moisture barrier. Never install vapor retarders directly behind DensShield Tile Backer panels. In retrofit applications, some paints or other wall coverings may constitute a vapor barrier; remove or effectively penetrate these coverings prior to installing DensShield Tile Backer panels.
 - Refer to Section 09260 Gypsum Board Systems for additional installation and sound treatment instructions

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3.1 Manufacturer's Execution Instructions:	2.2 Paint Materials, General			D. Interior Coatings:	I. Color Guide: Refer to finish plan and drawings for exact location of all colors		
A. Compliance: Comply with manufacturer's/fabricator's/supplier's product data, handling and installation instruction/manual, shop drawings, shipping container/package ticket identification, etc.	A. Material Compatibility: Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.			Interior Metals: (Doors, door frames, where indicated) Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.	E. Color Guide: Refer to finish plan and drawings for exact location of all colors		
3.2 Examination:	B. Material Quality: Provide manufacturer's best-quality "professional" paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.			Prime: (1) coat PPG; 90-912 Series Pitt-Tech Plus Int/Ext DTM Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Repaints only require spot prime on bare metal surfaces.) Finish: (2) coats PPG; V-50-410 Breakthrough Semi-gloss Sheen Acrylic (250 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils.	WHERE WHAT COLOR SHEEN FINISH TAG		
A. Verify correct panels received including dimension, tolerance, color/texture. B. Verify correct attachment system received for the specific project/job. C. Verify all the documents including shop drawing and installation guidelines. D. Verify installation conditions are satisfactory to receive work of this section before the commencement E. Verify substrate installation is complete, flat, and true to plane. F. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.	Colors: Color guided selected by owner and will be strictly adhered too, unless otherwise noted.			Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.	Exterior Galvanized		
3.3 Preparation:	C. Exterior Coatings:			Interior Metals: (Metal Deck if indicated on Finish Plan) Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and allow to dry before priming.	Exterior (Roof Mounted) Gas Piping		
A. Field Measurements: Verify prior to fabrication and installation of the cladding panel. B. Protect surrounding areas and surfaces to preclude damage during work of this section. C. Lay out work before beginning installation as necessary for true, plumb and aligned panel installations. D. Verify locations of joints and panel lengths.	Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from steel surface. Uniformly roughen surface with 150-grit paper. Remove all dust before solvent cleaning by the use of stiff bristle brush.			Prime: (1) coat PPG; 90-912 Series Pitt-Tech Plus Int/Ext DTM Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. Finish: (2) coats PPG; 90-1210 Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. Application: Conventional or HVLP (high volume low pressure)	Exterior and Interior Gas Piping, Where Exposed		
3.4 Installation:	Exterior and Interior Gas Piping:			Prime: (1) coat PPG; 90-912 Series Pitt-Tech Plus Int/Ext DTM Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. Finish: (2) Coats PPG; 90-1210 Series Pitt-Tech* Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils Application: Conventional or HVLP (high volume low pressure)	Exterior CMU Primer		
A. Conform to manufacturer's instructions and provisions of shop drawings. B. Install to allow hydro-thermal expansion/contraction. C. Use appropriate techniques/tools to work with the panel. D. Do not force to fit, do not bend, stretch/compress. E. Make cutting and fitting neat, square, and true. Where required cut, de-burr edges, and clean filings from adjacent surfaces. F. Do not install damaged or questionable panels. G. Install solid phenolic wall panels plumb and level and accurately spaced. H. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement. I. Shim or otherwise plumb substrates receiving composite wall panels. J. Do not use construction adhesives to apply wall panels directly to substrates or wall board. Use mechanical fasteners only.	Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from pipe surface. Remove all dust before solvent cleaning by the use of stiff bristle brush.			Prime: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils. Finish: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils. Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.	Exterior Stucco and EIFS Patio and Wet Areas		
3.5 Erection Tolerances:	A. Shim and align composite wall panel units within installed tolerance of 1/4 inch in 20 feet, non-accumulative, on level, plumb, and location lines as indicated and within 1/8 inch offset of adjoining faces and of alignment of matching profiles.			Exterior Patio Railing:	Exterior Ferrous Metals		
3.6 Field Quality Control:	A. Manufacturer's Field Service: Provide field services to ensure product installation is in accordance with manufacturer's/fabricator's /supplier's instructions and installation manual, shop drawings etc.			Preparation: Remove all visible oil, grease, soil, loose paint, rust and all other soluble contaminates from steel surface. Remove all dust before solvent cleaning SSPC-SP1 by the use of stiff bristle brush. SSPC-SP3 may be required as a more aggressive preparation to remove loose mill scale, loose rust, loose paint and other loose detrimental foreign matter from the surface. Performance is better with more aggressive preparation.	Exterior Stucco and EIFS Patio and Wet Areas (Alternate)		
3.7 Adjusting:	A. Correct identified defects and irregularities. B. Replace damaged soiled, and discolored work.			Prime: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils. Finish: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils. Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.	Interior Doors, Door Frames, Rails and Rail Frames, Where Specified		
3.8 Cleaning:	A. Leave installation clean and free from residue and debris from work of this Section. B. Panels best cleaned with warm soapy water and rinsed with clear water; allowed to dry fully.			Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-503 Concrete Primer before steel installation over all concrete surfaces.	Interior Ferrous Metals, Where Specified		
SECTION 09900 - PAINTS AND COATINGS				Owner Option 1:	Dining Room and Hallway Gyp. Bd.		
1.1 General: Provide paints and coatings as shown and specified.	A. Provide surface preparation, prime, intermediate and finish coatings for interior and exterior and existing scheduled surfaces and items. B. Provide Tenant-selected finishes and colors for all exposed surfaces, unless otherwise indicated.			Prime: (1) coat PPG; 6-209 SpeedHide Galvanized Metal Primer (400 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils. Finish: (2) coats PPG; 90-1210 Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils	Dining Room and Hallway Gyp. Bd.		
1.2 Related Documents:	A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.			Owner Option 2:	Dining Room and Hallway Gyp. Bd.		
1.3 Summary:	A. This section includes surface preparation and field painting of the following: 1. Exposed exterior items and surfaces. 2. Exposed interior items and surfaces. 3. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.			Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils. Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.	Dining Room and Hallway Gyp. Bd.		
1.4 Quality Assurance:	A. Applicator Qualifications: Engage an experienced applicator that has completed painting system applications similar in material and extent to that indicated for this Project with a record of successful in-service performance. B. Source Limitations: Obtain block fillers, primers and undercoat materials for each coating system from the same manufacturer as the finish coats. C. Provide lead free prime and finish coatings. All top coatings shall be mold and mildew resistant.			Owner Option 3 (Low VOC): Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils. Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils. Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.	Dining Room and Hallway Gyp. Bd.		
1.5 Delivery, Storage and Handling:	A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information: 1. Product name or tile of material. 2. Product description (generic classification or binder type). 3. Manufacturer's stock number and date of manufacture. 4. Contents by volume, for pigment and vehicle constituents. 5. Thinning instructions. 6. Application instructions. 7. Color name and number. 8. VOC content B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F (7 degrees C). Maintain containers used in storage in a clean condition, free of foreign materials and residue. 1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing and application.			CMU Preparation: Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with an appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface. Check adhesion by applying a piece of masking tape. If the sealer peels off and has loose particles, remove all chalking or crumbling material, re-seal and re-check adhesion.	Dining Room and Hallway Gyp. Bd.		
1.6 Project Conditions	A. Apply water-based paints only when the temperatures of surfaces to be painted and surrounding air temperatures are between 50 and 90 degrees F (10 and 32 degrees C) unless otherwise stated on the technical data bulletin. B. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 degrees F (7.2 and 35 degrees C). C. Do not apply paint in snow, rain, fog, or mist, or when the relative humidity exceeds 85 percent, or at temperatures less than 5 degrees F (3 degrees C) above the dew point, or to damp or wet surfaces. 1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.			Field Preparation: Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding. Prime: (2) Coats PPG; Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler Application: Brush, Roll or Spray	Dining Room and Hallway Gyp. Bd.		
2.1 Manufacturers:	A. Products: Subject to compliance with requirements, provide one of the products in the paint schedules. B. Manufacturers Names: The following manufacturer is referred to in the paint schedule by use of shortened versions of the name, which is shown below: 1. PPG Industries, Inc. 2. Materials - No substitutions allowed.			Existing Stucco/EIFS Surfaces (Including wet areas): Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off. Prime: (1) coat PPG; 4-603 Perma-Crete Alkali Resistant Primer (100 g/L VOC): Applied at a dry film thickness of not less than 1.2 to 1.9 mils. Finish: (2) coats PPG; 4-22 Perma-Crete Hi-Build Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 3.2 to 5.8 mils. Application: Airless spray with back roll using 3/4" nap roller.	Dining Room and Hallway Gyp. Bd.		
				Exterior Wood: Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and or scrapers. Allow to dry and sand all areas that need smoothing and dust off. Prime: (1) coat PPG; 17-921 Seal Grip Primer Sealer (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. Finish: (2) coats PPG; 70-501 Manor Hall Exterior Semi-Gloss or PPG Acri-Shield Semi-Gloss PPG649 (50 g/L VOC): Applied at a dry film thickness of not less than 1.5 to 3.0 mils. Application: Brush, Roll or Spray	Dining Room and Hallway Gyp. Bd.		
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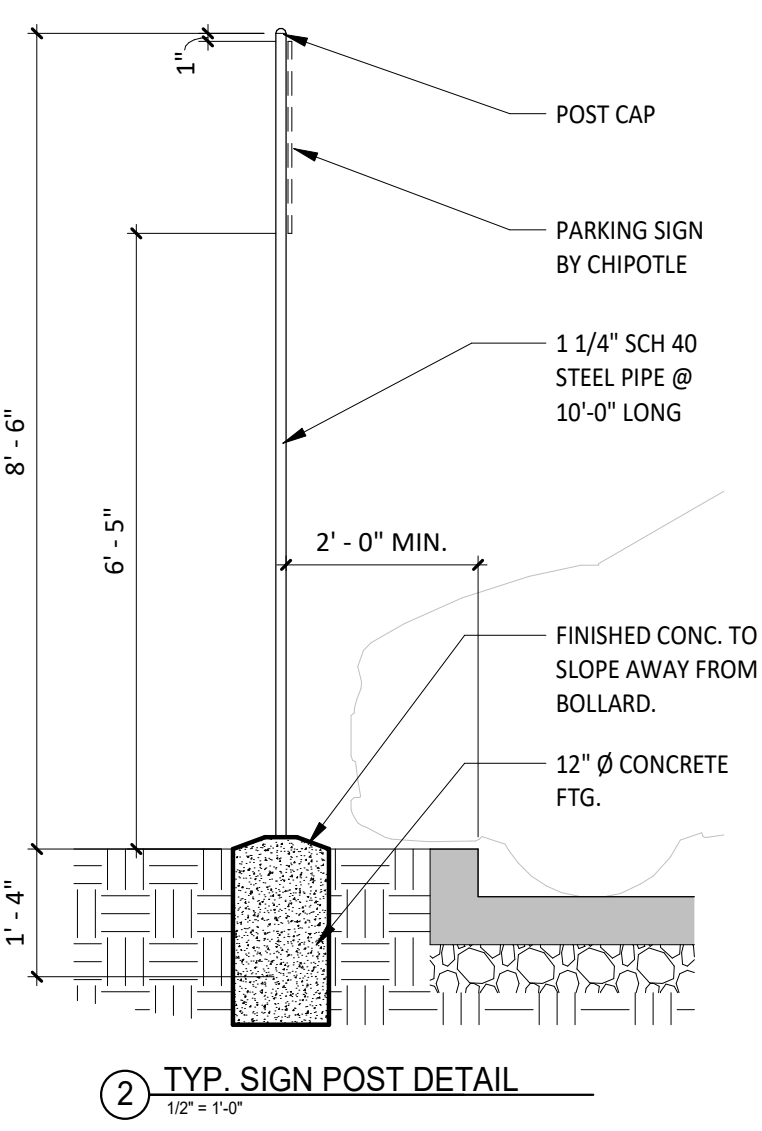
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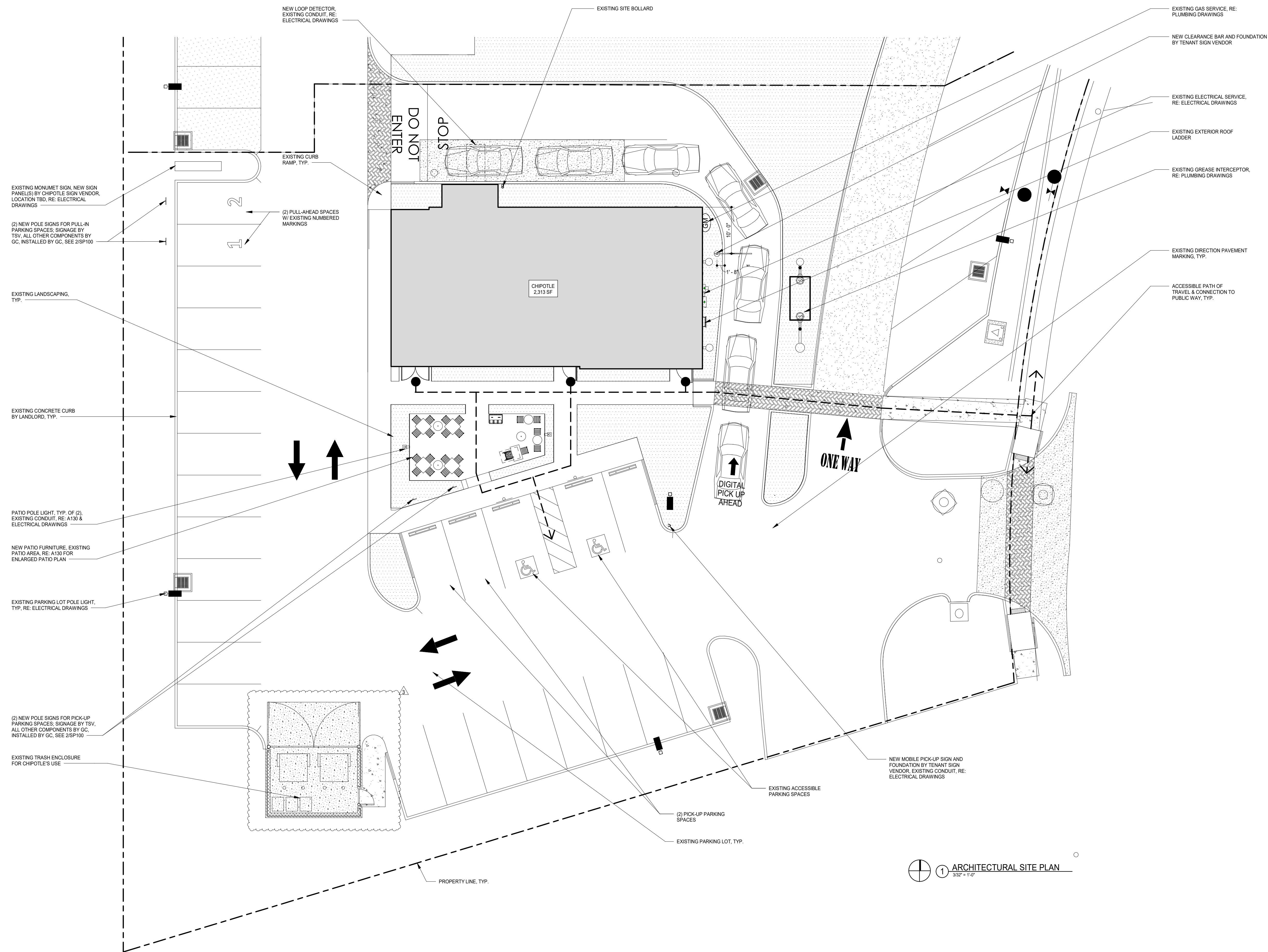
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Demised Premises Plan

D101



- GENERAL NOTES
1. ALL SITE WORK NOTED AS "EXISTING" IS EITHER AN EXISTING CONDITION OR NEW WORK THAT WILL BE PERFORMED BY THE LANDLORD UNDER A SEPARATE PERMIT PRIOR TO CHIPOTLE TAKING POSSESSION. ANY SITE FEATURE NOT NOTED SHALL BE ASSUMED TO BE "EXISTING". ALL SITE WORK NOTED AS "NEW" IS IN THE SCOPE OF WORK OF THIS PROJECT.
 2. STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL: STENCILS@PAVEMENTSTENCIL.COM



1 ARCHITECTURAL SITE PLAN
3/32\"/>

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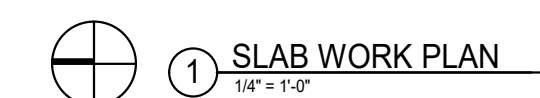
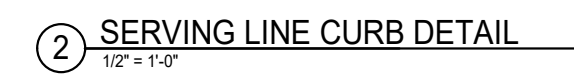
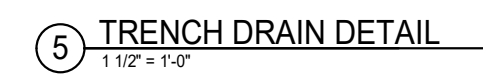
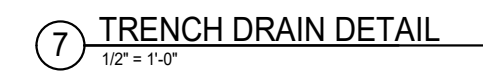
Issue Record:	
10/18/22	Permit Issue

Revisions:	
10/15/24	DB Updates

Project No.
01638

Architectural Site
Plan

SP100



- | | |
|---|--|
|  | FLOOR SINK, RE: PLUMBING DRAWINGS |
|  | FLOOR DRAIN, RE: PLUMBING DRAWINGS |
|  | CONTROL JOINT, SAW-CUT INTO GREEN CONCRETE |
|  | MOP SINK, RE: PLUMBING DRAWINGS |

1/24/25

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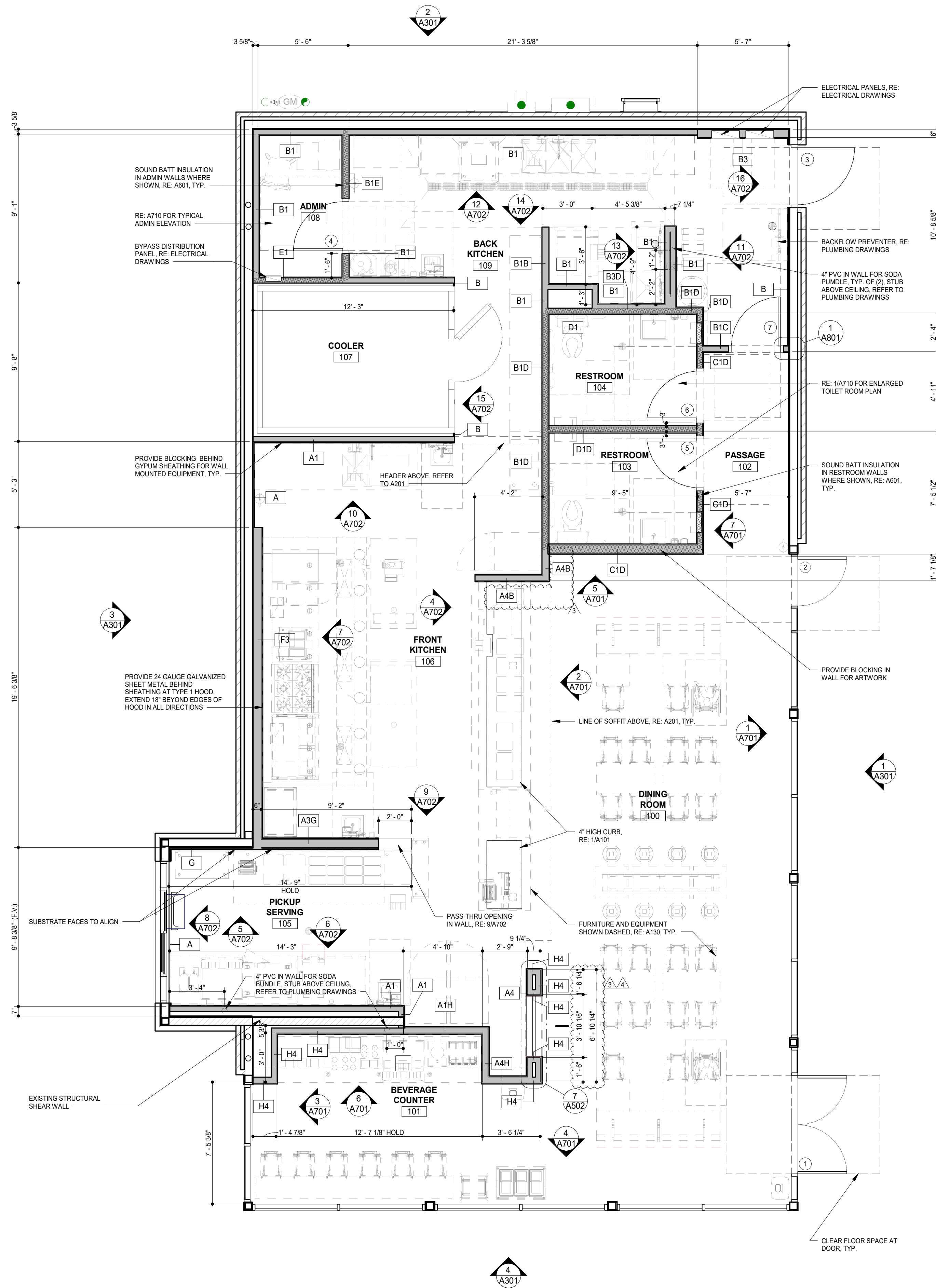
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10/18/22	Permit Issue

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Project No.
01638

Slab Work Plan

A101



GENERAL NOTES

1. ALL DIMENSIONS ARE TO F.O. NEW FRAMING, F.O. EXISTING WALL OR CENTERLINE OF STRUCTURE U.N.O.
2. RE: A120 FOR FINISH PLAN.
3. EDGE OF DOOR FRAME JAMBS SHALL BE 4" OFF OF ADJACENT WALL, U.N.O.
4. IN SITUATIONS WHERE TENANT'S G.C. IS TO PROVIDE TYPE 'X' GYPSUM BOARD FOR A RATED ASSEMBLY, THE TYPE 'X' GYPSUM BOARD IS REQUIRED TO GO BENEATH THE SHEATHING AND FINISHES.
5. PROVIDE BLOCKING IN WALLS FOR WALL MOUNTED SHELVING AND TOILET ROOM AND KITCHEN FIXTURES, RE: A701, A702 AND A710 FOR LOCATIONS.
6. TENANT'S G.C. TO PERFORM LAYOUT OF ENTIRE SPACE PRIOR TO STARTING FRAMING AND REPORT ANY DISCREPANCIES IN NOTED DIMENSIONS TO ARCHITECT AND CHIPOTLE MEXICAN GRILL. CONSTRUCTION MANAGER PRIOR TO PROCEEDING. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT G.C.'S COST.

LEGEND

- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- SOUND BATT INSULATION
- WALK-IN COOLER
- DOOR TYPE, RE: A601
- WALL TYPE, RE: A501

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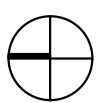
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Revisions:
06/26/23 DB Updates
10/22/24 CB01

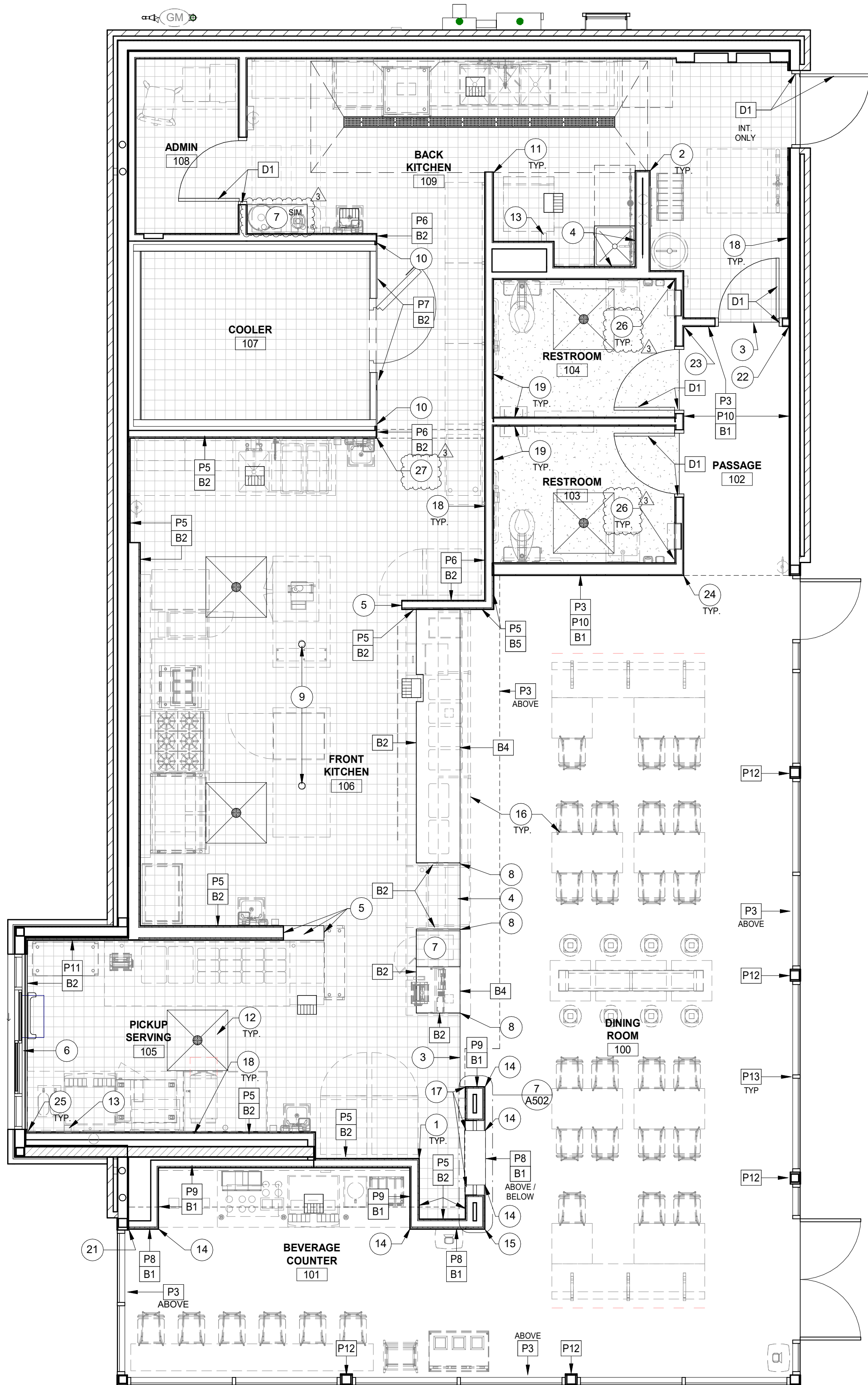
Project No.
01638

Architectural Floor
Plan

A110



1 ARCHITECTURAL FLOOR PLAN
1/8" = 1'-0"



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

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	REMARKS
100	DINING ROOM	F1	B1	RE: PLAN	C1	8'-2"	
101	BEVERAGE COUNTER	F1	B1	P9	C6	8'-2"	
102	PASSAGE	F1	B1	P3/P10	C3	10'-0"	
103	RESTROOM	F5	B3	P2/P3	C3	8'-0"	RE: A710
104	RESTROOM	F5	B3	P2/P3	C3	8'-0"	RE: A710
105	PICKUP SERVING	F2	B2	RE: PLAN	C4	10'-0"	
106	FRONT KITCHEN	F2	B2	RE: PLAN	RE: RCP	RE: RCP	
107	COOLER	F2	B2	P7	C5	-	
108	ADMIN	F2	B2	P6	C4	9'-0"	
109	BACK KITCHEN	F2	B2	P6	C4	10'-0"	

FINISH LEGEND

FLOOR FINISHES	WALL BASE FINISHES	WALL FINISHES	DOOR FINISHES	CEILING/DECK FINISHES
F1 POLISHED CONCRETE	B1 4" BLACK RUBBER - NO COVE. RE: 4&5/A801	P1 PLYWOOD BETWEEN TRUSSES. VERTICAL GRAIN. RE: 5/A502	D1 PAINT "BLACK"	C1 OPEN TO STRUCTURE, UNPAINTED
F2 QUARRY TILE	B2 QUARRY TILE WITH COVE. RE: 4-7/A802 & 19/A802	P2 FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	D2 PAINT "KNIGHTS' ARMOR"	C2 NOT USED
F3 EXTERIOR CONCRETE	B3 4" BLACK RUBBER BASE WITH COVE. RE: 18/A801	P3 GYPSUM BOARD; PAINT "THIN ICE", EGGSHELL. REFER TO T01 AND A710		C3 GYPSUM BOARD; PAINT "MOONLIT SNOW"
F4 SEALED CONCRETE	B4 QUARRY TILE - NO COVE. RE: 2/A802	P4 GYPSUM BOARD; PAINT "THIN ICE", SEMI-GLOSS FINISH BELOW 4'-3" AFF		C4 2X4 VINYL-FACED LAY-IN
F5 RESINOUS FLOORING	B5 CERAMIC TILE BASE. RE: 3/A802	P5 CERAMIC TILE - WHITE. RE: A802		C5 EXPOSED COOLER PANEL (EMBOSSED COATED STEEL)
		P6 FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)		C6 STONEWOOD PANEL CEILING
		P7 EXPOSED COOLER WALL (EMBOSSED COATED STEEL)		
		P8 SPALTED MAPLE PANEL, HORIZONTAL GRAIN		
		P9 STONEWOOD PANEL. RE: 2,3,16&19/A801		
		P10 STONEWOOD WAINSCOT. RE: 2,3,16&19/A801		
		P11 CERAMIC TILE - ACCENT - BRONZE 9" X 12". RE: A802 ALTERNATE ACCENT TILE CHOICE: ALCHEMY 2"X9" / ARTESSEN 2"X4"		
		P12 PREFINISHED BRASS METAL, EXISTING		
		P13 ALUMINUM STOREFRONT, EXISTING		

INTERIOR WALL AND CEILING FINISH REQUIREMENTS

GROUP	SPRINKLERED EXIT ENCLOSURES & EXIT PASSAGEWAYS	CORRIDOR	ROOMS & ENCLOSED SPACES	NON-SPRINKLERED EXIT ENCLOSURES & EXIT PASSAGEWAYS	CORRIDOR	ROOMS & ENCLOSED SPACES
A-2	B	B	C	A	A	B
B	B	C	C	A	B	C

*RE: A200 FOR GROUP TYPE AND IF BUILDING IS SPRINKLERED OR NON-SPRINKLERED

GENERAL NOTES

- PAINT ALL GYPSUM BOARD CEILINGS "MOONLIT SNOW," U.N.O.
- RE: A801 AND A802 FOR STANDARD FINISH DETAILS.
- CHANGE FLOOR MATERIALS UNDER DOOR WHERE OCCURS.
- ALL FINISHES TO BE CLASS B PER THE INTERIOR WALL AND CEILING FINISH REQUIREMENTS LEGEND ABOVE.
- ENSURE THAT ALL STOREFRONT HAS CONTINUOUS, CLEAN SEALANT AROUND THE INTERIOR AND EXTERIOR PERIMETER BETWEEN THE STOREFRONT AND ADJACENT WALL FINISHES. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES.
- SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC. INSTALL PER SPECIFICATION SECTION 06210 - FINISH CARPENTRY AND MILLWORK.
- STONEWOOD WALL PANELS AND WAINSCOT PANELS PROVIDED BY TMS, INSTALLED BY GC.
- PROVIDE STAINLESS STEEL BASE AT ALL OUTSIDE QUARRY TILE CORNERS. RE: SPECS & DETAILS 6&7/A802.

FINISH PLAN KEYNOTES

- RE: 11/A802 FOR CERAMIC TILE-TO-CERAMIC TILE CORNER DETAIL
- 1 1/2" X 1 1/2" STAINLESS STEEL CORNER GUARDS TO 5'-0" AFF WITH 1-1/2" X 1-1/2" FRP CORNER TRIM ABOVE
- ALIGN LOW EDGE OF RENO RAMP WITH FRONT EDGE OF EQUIPMENT CURB AND FACE OF ADJACENT WALL BASE FINISH. AT DOORS, ALIGN LOW EDGE WITH FRONT FACE OF DOOR.
- PROVIDE BULLNOSE FLOOR TRANSITION PER DETAIL 23/A802
- ALUMINUM PLATE AT END OF WALL & HEADER/JAMB/SILL OF WALL PASS-THRU. RE: 12&13/A802
- ALUMINUM PLATE AT WINDOW OPENING HEADER JAMBS/SILL. RE: 4/A502 & 12&13/A802
- INSTALL QUARRY TILE ON TOP OF SERVE LINE CURB WHERE INDICATED. RE: 1/A802
- INSTALL COVELESS QUARRY TILE BASE BULLNOSE CORNER (GCRL-1665) ON SIDE OF SERVELINE CURB FACING DINING ROOM. INSTALL COVED QUARRY TILE BASE ON SIDE OF SERVELINE CURB FACING QUARRY TILE FLOOR. BEHIND BULLNOSE BASE. RE: 9/A802
- RE: 17/A802 FOR DETAIL AT PREP/CUTTING TABLE POWER SOURCE
- RE: 14/A801 FOR DETAIL AT FRP CLOSURE PANEL TO WALK IN COOLER PANEL
- AT QUARRY TILE BASE OUTSIDE CORNERS, INSTALL STAINLESS STEEL CORNER PER 6&7/A802
- RE: 18/A802 FOR SLOPED QUARRY TILE FLOOR TO FLOOR DRAIN DETAIL
- PROVIDE 18 GAUGE STAINLESS STEEL SHROUD AROUND EXPOSED ICE MAKER LINES. RE: 4/A130
- RE: 12/A801 FOR SPALTED MAPLE PLYWOOD-TO-STONEWOOD OUTSIDE CORNER DETAIL
- RE: 13/A801 FOR SPALTED MAPLE PLYWOOD-TO-SPALTED MAPLE PLYWOOD OUTSIDE CORNER DETAIL
- EQUIPMENT AND FURNITURE SHOWN DASHED. RE: A130
- RE: 11/A801 FOR STONEWOOD-TO-TILE OUTSIDE CORNER DETAIL
- PROVIDE WATERPROOFING AT ALL KITCHEN & ADMIN WALL/FLOOR JUNCTIONS. RE: 4&5/A802
- PROVIDE WATERPROOFING AT ALL RESTROOM WALL/FLOOR JUNCTIONS. RE: 18/A801
- PROVIDE STAINLESS STEEL TO 2" ABOVE MOP SINK. FLASH BOTTOM EDGE OVER MOP SINK RM. BEND STAINLESS STEEL AT INSIDE CORNER SO THERE IS NO JOINT. RE: 17/A801
- RE: 8/A801 FOR SPALTED MAPLE PLYWOOD END CONDITION DETAIL
- RE: 7/A801 FOR STONEWOOD END CONDITION DETAIL
- RE: 8/A801 FOR STONEWOOD INSIDE CORNER DETAIL
- RE: 9/A801 FOR STONEWOOD OUTSIDE CORNER DETAIL
- RE: 9/A802 FOR CERAMIC TILE-TO-CERAMIC TILE INSIDE CORNER DETAIL
- RE: 20/A801 FOR SMOOTH FRP INSIDE CORNER DETAIL
- RE: 10/A802 FOR FRP-TO-TILE OUTSIDE CORNER DETAIL

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10/18/22	

Revisions:	

Project No.
01638

Finish Plan

A120

1. RE: A131 & A132 FOR EQUIPMENT & FURNITURE SCHEDULES.
2. ALL DIMENSIONS TO FACE OF GYPSUM BOARD, FACE OF FINISH PLYWOOD, CENTERLINE EDGE OF FURNITURE, OR COLUMN GRID, U.N.O.
3. ALL FURNITURE SHALL BE SQUARE TO TENANT SPACE/WALLS AS SHOWN ON PLANS.
4. MAINTAIN MINIMUM 3'-0" CLEAR @ QUEUE LINE & EXIT PATHWAYS, TYP.
5. SEE INTERIOR ELEVATIONS FOR ALL DOOR & WINDOW DIMENSIONS. SEE A701 & A702.
6. PROVIDE BLOCKING IN WALLS FOR WALL-MOUNTED ARTWORK, TOILET ROOM AND KITCHEN FIXTURES.
7. PROVIDE PORTABLE FIRE EXTINGUISHERS AS FOLLOWS:
(1) TYPE ABC - SHOWN ON PLAN, FINAL LOCATION PER FIRE MARSHAL.
(2) TYPE K - SHOWN ON PLAN, FINAL LOCATION PER MARSHAL.

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Lake St. Louis
Store No. 4470
8270 Old Highway N
Lake St. Louis, MO 63

Issue Record:

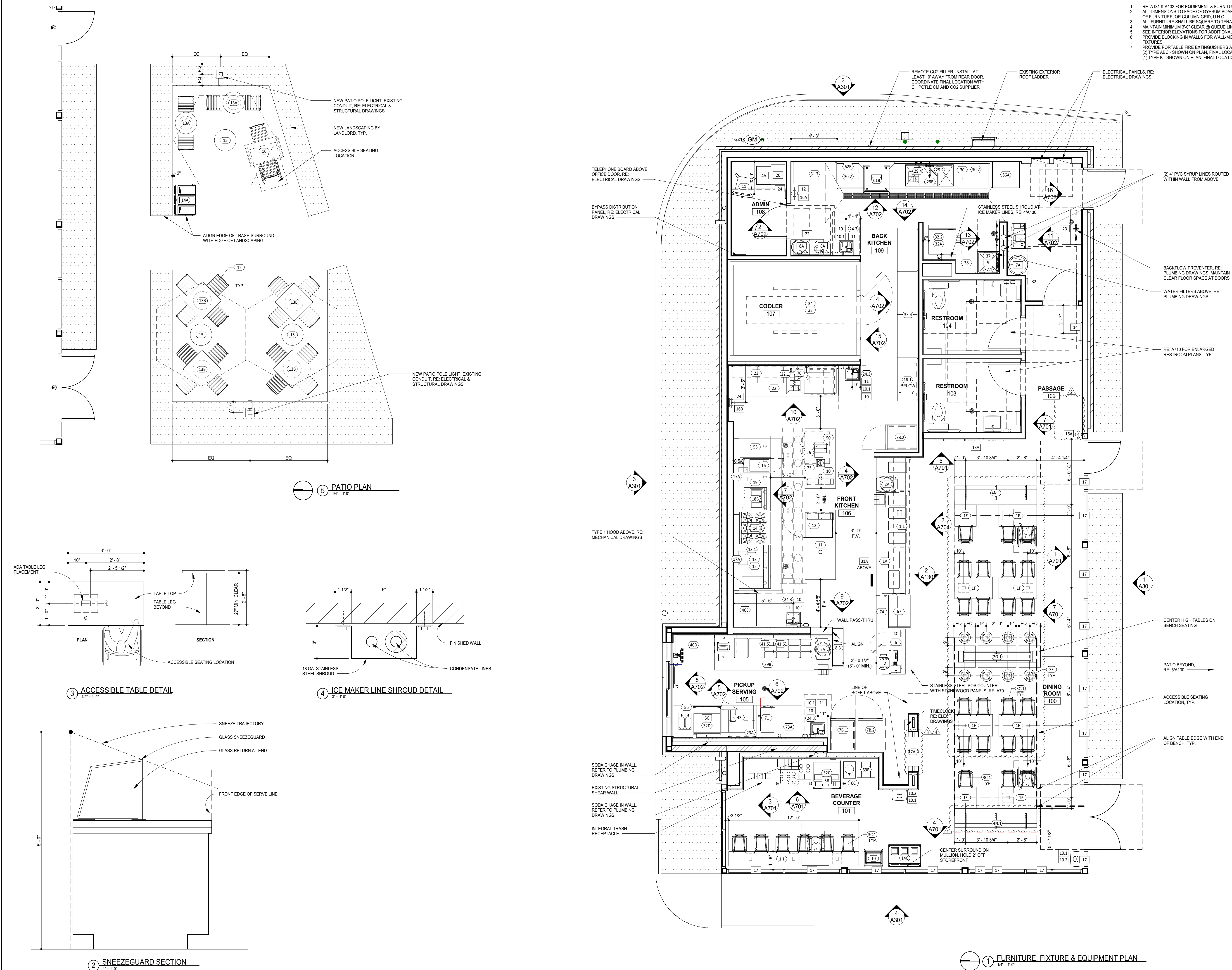
0/18/22	Permit Issue
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Revisions:	
6/26/23	DB Updates
9/16/24	Client Revisions
10/15/24	DB Updates
10/22/24	CB01

Project No. 01638

Fixtures, Furniture & Equipment Plan

A130



MISC. EQUIPMENT LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1	Point of Sale Display	1	TMS	GC					Installed at POS Station
2	Point-Of-Sale System	2	T	TCC					Coordinate Requirements With Tenant and Elec. Drawings
4A	B-Rate (Standard Safe)	1	TS	GC					Installed in Office
4C	Smart Safe	1	TSS	TSS	•				To Be Installed On Curb Under Serveline, Bolt to Curb Under Serveline POS
5B	Soda Dispenser - With Air-Cooled Ice Maker	1	SPS	SPS	•			•	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
5C	Soda Dispenser - With Remote Air-Cooled Ice Maker	1	SPS	SPS	•			•	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
6	Soda System Syrup Rack with Carbonator on Stainless Steel Shelf	1	SPS	SPS	•		•		
7A	Bulk CO2 Tank	1	CO2	CO2	•				GC To Secure Cylinders To Wall With Grade 30 Galvanized Steel Chain At 2/3 The Height Of The Cylinder. Attach To Wall With Stainless Steel Quick Link And Screw Eye
8A	Gas Tankless Water Heater	2	GC	GC		•	•	•	Drain Water Heater To Floor Drain, RE: MEP Drawings
9	Mop Sink, See Plumbing Drawings	1	GC	GC			•	•	See Plumbing Drawings
10	Touch-Free Soap Dispenser	4	WA	GC					
10.1	Hand Sanitizer Dispenser	6	WA	GC					
10.2	Hand Sanitizer Stand	2	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	4	WA	GC					
12	First Aid Kit	1	T	GC					Provide Plywood Blocking to Mount to Wall
13A	M4.0 - Artwork Panel - Plaster, 2Hx3L Panels, Start Pattern At Column 1	1	TAS	GC					Confirm Location With Chipotle CM Prior To Installation Provide Plywood Blocking to Mount to Wall
14	License Frame	1	T	GC					Provide Plywood Backing In Wall At License Frame Location
16A	Fire Extinguisher Type ABC - B456	2	GC	GC					Locate per Fire Marshal, provide plywood backing
16B	Fire Extinguisher Type K	1	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
17	Window Shades	18	WS	WS					See Sheet A130 For Location & Size (When Used)
19	Hat & Coat Strips (Not Shown)	1	WA	GC					Provide Plywood Blocking to Mount to Wall
20	2-Drawer File Cabinet, By Tenant	1	T	T					By Tenant
22	Water Softener	1	KES	GC			•	•	See MEP Sheets For Details
23	Backflow Preventer	1	GC	GC			•	•	See MEP Sheets for Details
24	LaunchPort Wall Station	2	T	GC	•				Tablet By Tenant, RE: Electrical Drawings
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	•				Mount At 18" AFF, Refer to Electrical Drawings for Additional Details
33A	M4.0 - Pick-Up Sign - Single Faced - Flush Mounted - Face	1	TSV	GC					

FURNITURE LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	2	TMS	GC					
1F	M4.0 - Table 24x42in, Rectangular Base (Accessible)	6	TMS	GC					See Detail On A130
1H	M4.0 - Community Table - Low - Window - Length Varies	1	TMS	GC					
2G.1	M4.0 - Bar Height Table 8-Top, With Footrest	1	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	28	TMS	GC					
3E	M4.0 - Bar Stool - Fixed	8	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4N.1	Banquette Bench (Black) - Floor Mount	2	TMS	GC					
6C	M4.0 - Beverage Counter - With Trash - 4" Splash - 149"	1	TMS	GC				•	Coordinate Floor Drain Installation with Utensil Counter Installation, Bins Provided by Tundra in Smallwares Package
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
12	Patio Chair - Bistro	22	KES	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
13A	24in Round Bistro Table	2	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
13B	30in Square Bistro Table	4	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
14A	3 Bin Trash/Recycling Surround - Exterior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
14C	M4.0 - 3 Bin Trash/Recycling Surround - Interior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
15	Patio Umbrella	3	KES	GC					
16	ADA Patio Table	1	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
17A.2	MOPUS Shelving - 44"	1	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Wood Edge Of The Shelves To Face The Dining Room



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Issue Record:	
10/18/22	Permit Issue

Revisions:	
06/26/23	DB Updates
09/16/24	Client Revisions
10/22/24	CB01

Project No.
01638

Fixtures, Furniture &
Equipment
Schedules

A132

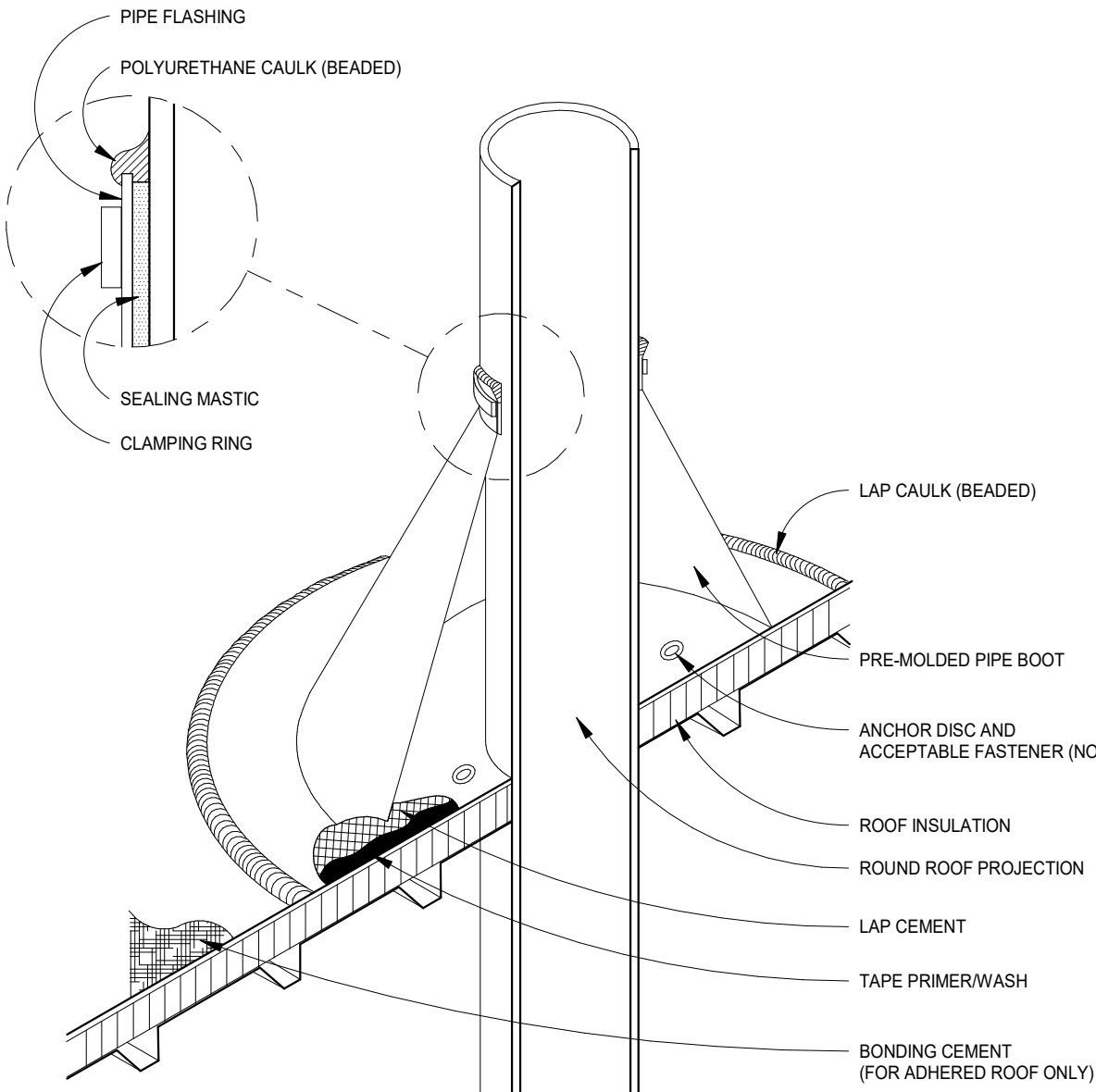
HVAC EQUIPMENT

DESCRIPTION	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
			ELEC	GAS	WATER	SEWER	
EXHAUST FANS & CURBS	HS	GC	•				CURB FURNISHED BY HS, INSTALLED BY GC
MAKE UP AIR UNIT & CURBS	HS	GC	•	•	•	•	CURB FURNISHED BY HS, INSTALLED BY GC
ROOF TOP UNITS & CURBS	HES	GC	•	•	•		CURB FURNISHED BY HS, INSTALLED BY GC
TEST & BALANCE SYSTEM	TAB						FURNISH HVAC TEST & BALANCE PER TENANT'S NATIONAL ACCOUNT PROGRAM

NOTE: UTILITIES BY GC, REFER TO MECHANICAL DRAWINGS.

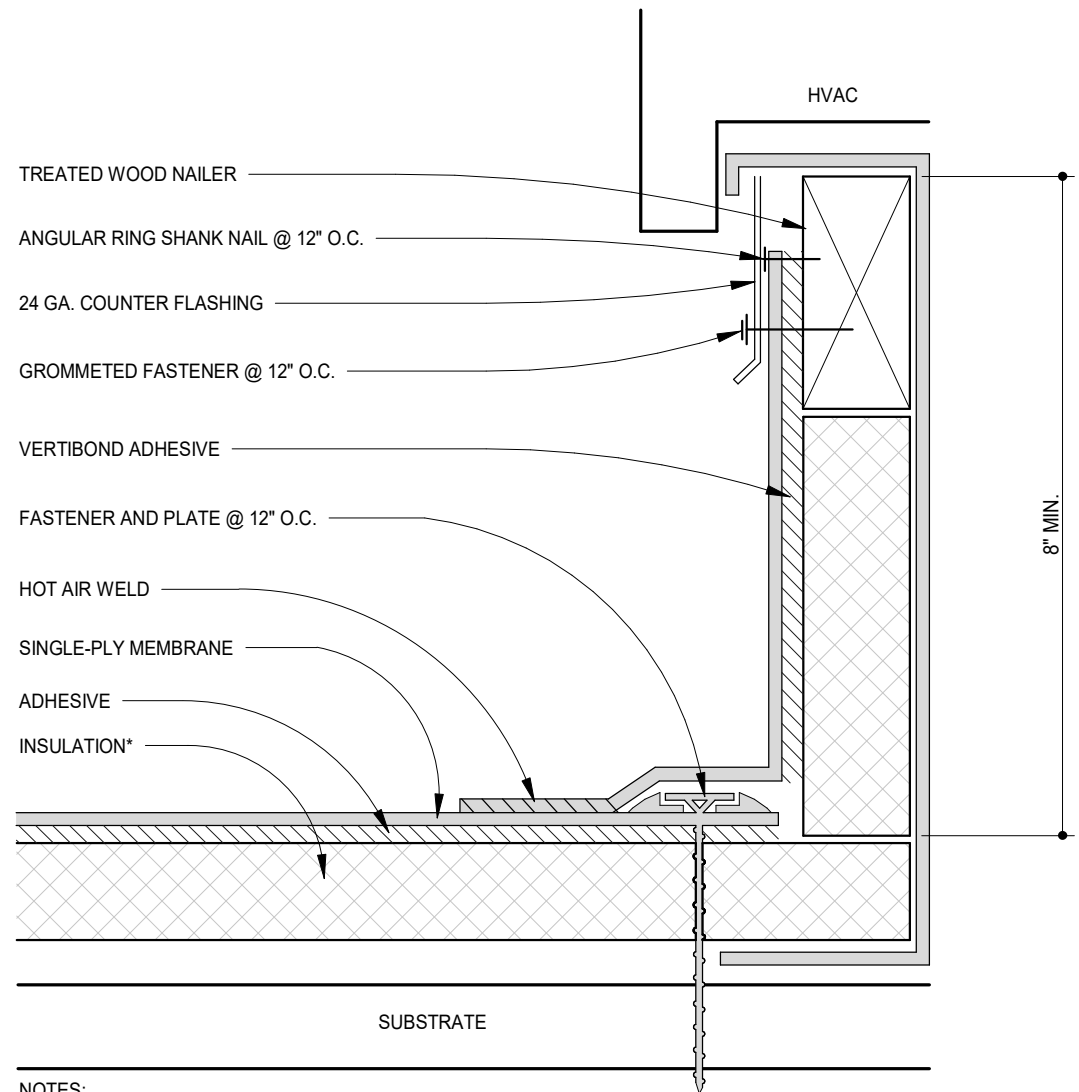
GENERAL NOTES

- RE: STRUCTURAL DRAWINGS FOR LOCATIONS & SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
- RE: MECHANICAL PLANS FOR ROOF TOP EQUIPMENTS.
- COORDINATE ALL ROOF PENETRATIONS, FLASHING AND REPAIR WITH TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
- DIMENSIONS ARE TO THE OUTSIDE FACE OF CURB AND ARE FOR REFERENCE ONLY. EQUIPMENT WITHOUT CURBS ARE DIMENSIONED TO THE CENTER OF THE EQUIPMENT. CONTRACTOR TO ADJUST AS NECESSARY IN FIELD TO MAINTAIN WORKING CLEARANCES AND TO COORDINATE BEST WITH EXISTING STRUCTURAL MEMBERS. CONTACT ARCHITECT FOR ANY NECESSARY MODIFICATION TO LAYOUT. TRUSSES FOR THE SHELL BUILDING WERE DESIGNED FOR THE RTU WEIGHTS AND PLACEMENTS EXHIBITED. IF THE LOCATION OR ORIENTATION OF A UNIT MUST CHANGE, NOTIFY ARCHITECT IMMEDIATELY.
- RE: RTU FOR PENETRATION DETAILS AT RTUS, MAU, AND EXHAUST FANS.
- LANDLORD SHALL PROVIDE ROOF STRUCTURE CAPABLE OF SUPPORTING ALL ROOF-SUPPORTED EQUIPMENT, INCLUDING (2) RTUS, MAKE-UP AIR UNIT, HOOD EXHAUST FAN, GREASE EXHAUST HOOD, RESTROOM EXHAUST FAN, AND (5) CONDENSING UNITS PER CODE.
- RE: 2/A140 FOR TYPICAL CURB FLASHING DETAIL.
- RE: 3/A140 FOR TYPICAL VENT FLASHING DETAIL.
- PROVIDE INSULATED CURBS FOR ALL EQUIPMENT IN EXPOSED DECK AREA ONLY.
- PROVIDE TAPERED INSULATION CRICKET AT ALL EQUIPMENT CURBS.
- PROVIDE ROOF HYDRANT, RE: PLUMBING DRAWINGS.
- ALL UNUSED ROOFTOP EQUIPMENT TO BE REMOVED. PATCH ROOF AS NECESSARY. IF APPLICABLE.
- TO MAINTAIN ORIGINAL WARRANTY WHERE PROVIDED, USE ORIGINAL ROOF CONTRACTOR.
- PAINT EXTERIOR EXPOSED GAS PIPING PER SPEC SECTION 0900.
- PROVIDE ROOF TOP WALKING PADS PER ROOF MANUFACTURER REQUIREMENTS.
- LOCATE ALL MECHANICAL UNITS SO DUCT DROPS BETWEEN TRUSSES. NOTIFY ARCHITECT IMMEDIATELY IF ANY UNITS NEED TO SHIFT FROM PLAN LOCATIONS SHOWN.



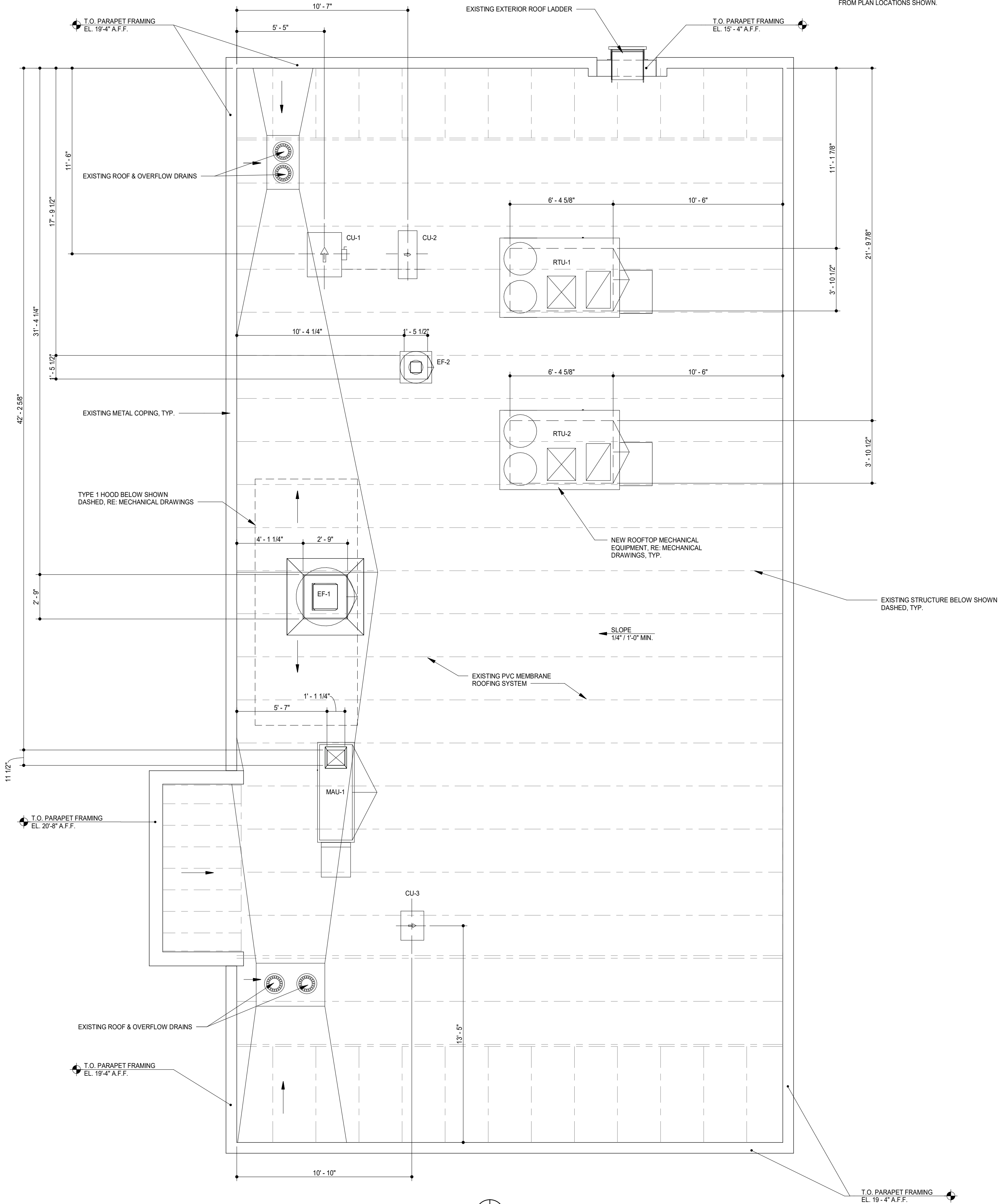
- NOTE:
- WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
 - DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
 - ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT. EPDM TAPE PRIMERWASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING EPDM LAP CEMENT.
 - BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMERWASH. EPDM TAPE PRIMERWASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING EPDM LAP CEMENT.
 - IF A LEAD FLASHING IS PRESENT ON THE PIPE, IT MUST BE REMOVED BEFORE A DURO-LAST STACK FLASHING IS INSTALLED.
 - MEMBRANE ATTACHMENT AROUND THE PENETRATION WILL BE THE SAME AS THE DECK MEMBRANE, MAX 18" O.C. AND A MINIMUM OF ONE PLATE/FASTENER PER FLASHING.

3 BOOT DETAIL
N.T.S.



- NOTES:
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 - DO NOT SCALE DRAWINGS.
 - USE PREFABRICATED OUTSIDE CORNERS.
 - PERIMETER FASTENING OF THE DECK MEMBRANE WILL BE THE SAME FASTENING PATTERN AS THE FIELD MEMBRANE, MAX 18" O.C. AND NO LESS THAN ONE FASTENER PER SIDE.
 - INSULATION MUST BE SECURELY FASTENED.
 - ALL TERMINATION BAR TO HAVE A FASTENER 1" MAX FROM EACH CORNER.
 - *GLASS-FACED POLY ISO INSULATION IS OPTIONAL AND MAY NOT BE REQUIRED ON EVERY PROJECT. IF INSULATION IS NOT REQUIRED, THE MEMBRANE MUST BE ADHERED TO AN APPROVED SURFACE.

2 CURB FLASHING
N.T.S.



1 ARCHITECTURAL ROOF PLAN
1/8" = 1'-0"

DUNGAN
DESIGN
GROUP

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01/24/25

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Issue Record:

10/18/22 Permit Issue

Revisions:

Project No.

01638

Architectural Roof
Plan

A140

SPEAKER SCHEDULE

ITEM #	QTY	DESCRIPTION	COLOR/FINISH	MOUNT	REMARKS
SP1	4	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A210 & E110 FOR DETAILS

SECURITY SYSTEM

DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	ELEC	GAS	SEWER	WATER	REMARKS
SECURITY MONITOR	1	SSS	SSS	•				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	•				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	•				
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	2	SSS	SSS	•				INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	6	SSS	SSS	•				

GENERAL NOTES

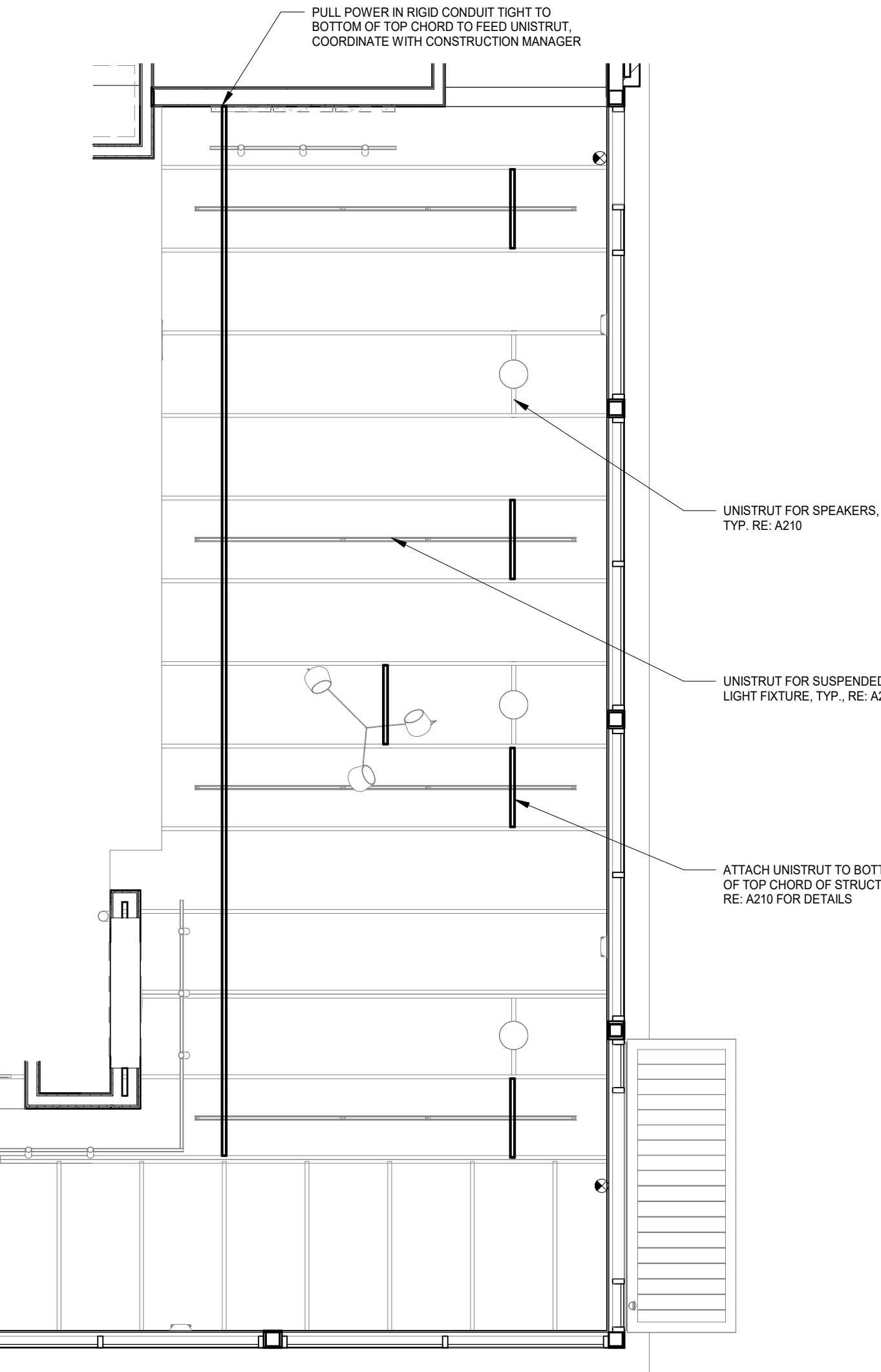
- ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY T.S. INSTALLED BY GC.
- ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
- KITCHEN EXHAUST HOOD PROVIDED BY HS. INSTALLED BY GC. GC TO COORDINATE PRESSURE TEST AND VIBROGUARD WITH ENVIRONMENT.
- ANSUL BOY AND FIRE SUPPRESSION SYSTEM PROVIDED BY AND INSTALLED BY HS. HOOD INTERLOCK AND ELECTRICAL CONNECTION BY GC. RE: ELECTRICAL DRAWINGS.
- MENU BOARD ASSEMBLY PROVIDED BY TMB. INSTALLED BY GC.
- PROVIDE BLOCKING IN CEILING ABOVE MENU BOARD FOR INSTALLATION.
- RE: "09900 PAINTING - GENERAL" IN SPECIFICATIONS FOR FINISHES AT EXPOSED CEILING AREAS IN ADDITION TO NOTES LISTED ON THIS SHEET AND A120.
- UNISTRUT TO BE LEFT UNPAINTED. PROVIDE MATCHING CLOSER STRIPS AND END CAPS. CLOSER STRIP TO BE APPLIED TO THE UNDERSIDE OF THE UNISTRUT.
- RE: A701 & A702 FOR PENDANT & WALL-MOUNTED FIXTURE INSTALLATION HEIGHTS.
- LIGHT DETAILS ARE LOCATED ON SHEET A210. FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E100.
- ALL UNISTRUT SUPPORTING CEILING ELEMENTS AND/OR DUCT WORK SHALL NOT CONTAIN ANY ELECTRICAL CONDUIT. ALL ELECTRICAL CONDUIT MUST RUN IN SEPARATE UNISTRUT.
- ALL UNISTRUT, CONDUIT, SPRINKLER & WATER LINES SHALL BE INSTALLED TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS & LEFT UNPAINTED.
- ALL DIMENSIONS ARE TO FACE OF WALL SHEATHING OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE TO FACE OF WALL SHEATHING OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
- UNDERSLIDE OF THE UNISTRUT.
- SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.
- ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
- FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER CEILING/HEADER DIMENSION INDICATED. ACTUAL HEADER AND CEILING HEIGHT IN FRONT KITCHEN AREAS TO BE ADJUSTED IN FIELD SO THERE ARE FULL TILES BETWEEN TOP OF BASE AND FINISHED CEILING OR HEADER.
- ALL CONDUIT AND PIPE PENETRATIONS OF THE SERVING LINE SOFFIT ARE TO BE HELD TIGHT TO THE DECK. PLEASE CONSULT WITH CHIPOTLE ON ANY CONDUIT'S ARISE.
- BATT INSULATION IS TO BE INSTALLED ABOVE THE RESTROOM CEILING WHEN THE SURROUNDING WALLS DO NOT GO TO DECK AND THE CEILING IS OPEN TO THE DINING ROOM SPACE.
- LAY-IN CEILING PENETRATIONS TO BE HELD TIGHT TO WALLS, RE: 4A210 & PLUMBING DRAWINGS.
- RE: STRUCTURAL DRAWINGS FOR HOOD SUSPENSION DETAILS.
- ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS PROVIDED BY T.S. INSTALLED BY GC.
- PARKING LOT LIGHT FIXTURES AND LAMPS PROVIDED AND INSTALLED BY GC.
- EXTERIOR PATIO LIGHT FIXTURES AND LAMPS, WHEN PART OF SCOPE, PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER, INSTALLED BY GC.
- SECURITY CAMERA LOCATIONS ARE APPROXIMATE LOCATIONS. RE: ENVISION INSTALLATION GUIDE FOR SPECIFIC LOCATIONS.
- RE: A120 FOR FINISH SCHEDULE.
- ALL CEILING HEIGHTS NOTED ON THE PLAN ARE TO BOTTOM OF FINISHED CEILING.
- RE: 6A500 FOR BULKHEAD & SUSPENDED GYPSUM BOARD DETAIL.
- PROVIDE TEN FOOTCANDLES OF SHIELDED LIGHT THROUGHOUT COOLER. FLUORESCENT LIGHTING FOR COOLER BY MANUFACTURER.
- RE: 10A210 FOR SUSPENDED CEILING DETAIL.

CONDUIT GUIDELINES

NO FLEXIBLE METALLIC CONDUIT IS ALLOWED IN ANY AREAS WHERE IT WOULD BE EXPOSED TO VIEW. ONLY RIGID METALLIC CONDUIT (THICK-WALL OR THIN-WALL AS NEEDED) IS ALLOWED IN THESE AREAS.

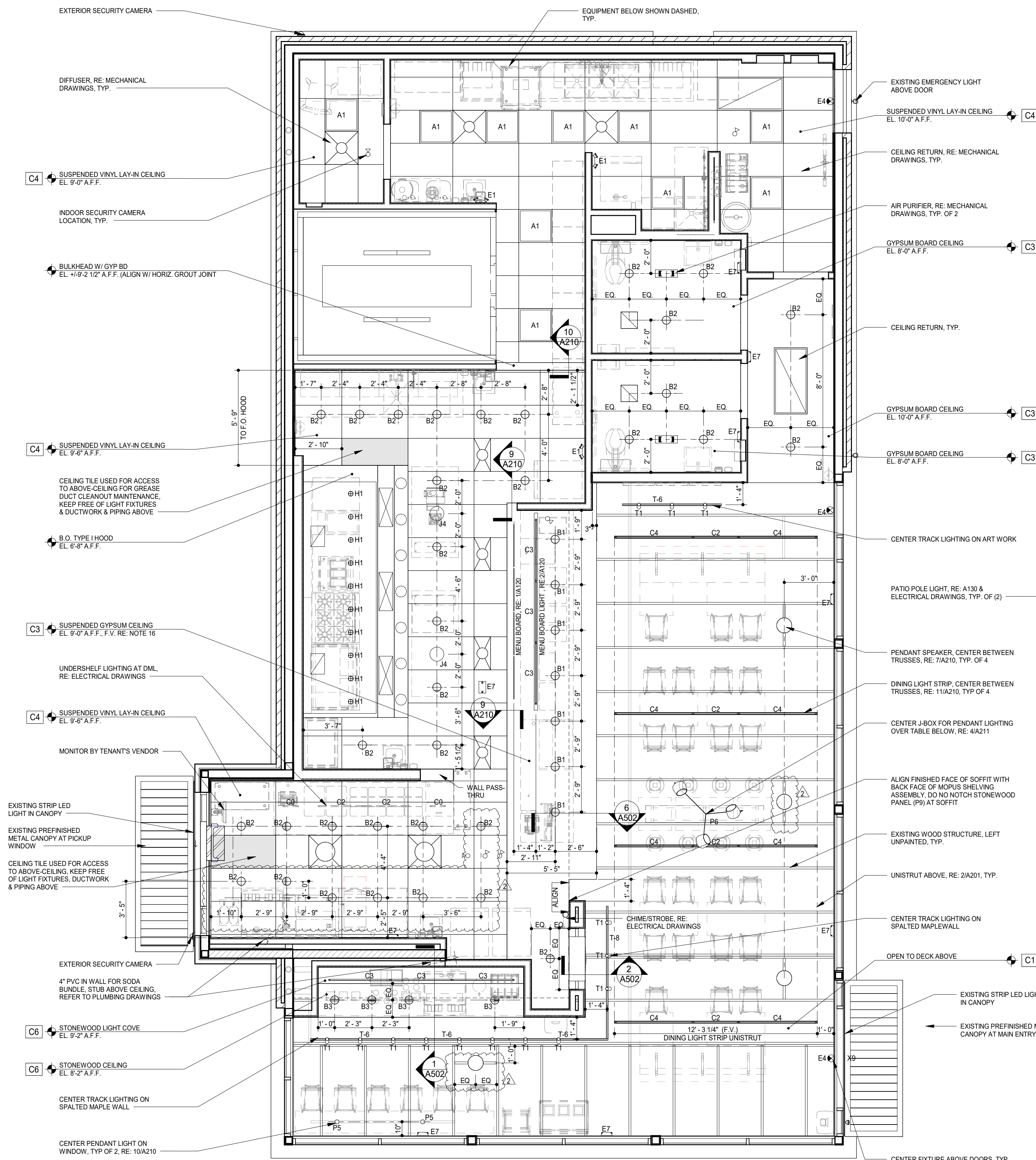
RCP SCHEDULE

ITEM #	MOUNT	DESCRIPTION	QTY	REMARKS
A1	LAY-IN	2x2 LED LENSED TROFFER	10	SEE SHEET E100
B1	CEILING	RECESSED 6IN CAN LIGHT	7	SEE SHEET E100
B2	CEILING	RECESSED 6IN CAN LIGHT	2	SEE SHEET E100
B3	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	4	SEE SHEET E100
C0	SURFACE	LOW PROFILE LED 1FT	2	SEE SHEET E100
C2	SURFACE	LOW PROFILE LED 3FT	6	SEE SHEET E100
C3	SURFACE	LOW PROFILE LED 4FT	6	SEE SHEET E100
C4	SURFACE	LOW PROFILE LED 5FT	8	SEE SHEET E100
E1	SURFACE	EMERGENCY LIGHT - DUAL HEAD	3	SEE SHEET E100
E4	SURFACE	WHITE EXIT LIGHT - STANDARD RED LETTERS	3	SEE SHEET E100
E7	SURFACE	EMERGENCY LIGHT - DUAL HEAD	9	SEE SHEET E100
G4	FLOOR	PATIO LIGHT POLE	2	SEE SHEET E100
H1	INTEGRAL	HOOD LIGHT	10	SEE SHEET E100. PROVIDED BY HOOD MANUFACTURER
J4	PENDANT	M4.0 - PENDANT LIGHT	2	SEE SHEET E100
P5	PENDANT	M4.0 - PENDANT LIGHT	2	SEE SHEET E100
P6	PENDANT	M4.0 - MULTI-PENDANT LIGHT	1	SEE SHEET E100 & A701
T1	TRACK	TRACK LIGHTING HEAD	14	SEE SHEET E100
T-6	SUSPENDED	M4.0 - TRACK 6'	4	SEE SHEET E100
T-8	SUSPENDED	M4.0 - TRACK 8'	1	SEE SHEET E100



UNISTRUT LAYOUT PLAN

REFLECTED CEILING PLAN





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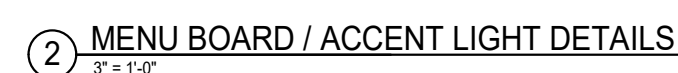
[illegible]Project No.
01638

Ceiling Details

A210

-
- Diagram illustrating the components of a suspended ceiling system:
- ROOF STRUCTURE
 - 12 GA WIRE HANGERS @ 48" O.C.
 - WIRE TIE EITHER DIRECTLY TO BUILDING STRUCTURE W/ LAG SCREWS OR HANGERS THAT ARE SECURE & APPROPRIATE FOR SUBSTRATE
 - MAIN TIE @ 48" O.C.
 - 1/2" VINYL FACED GYPSUM BOARD CEILING PANELS, TYP.
 - CROSS TIE @ 24" O.C.
 - EDGE TRIM MOLDING CONNECTED TO SUBSTRATE SURFACE, CALK EDGE TO FRP PER SPECIFICATIONS.
 - FACE OF WALL

11 SUSPENDED ACOUSTICAL CEILING DETAIL
1 1/2" = 1'-0"





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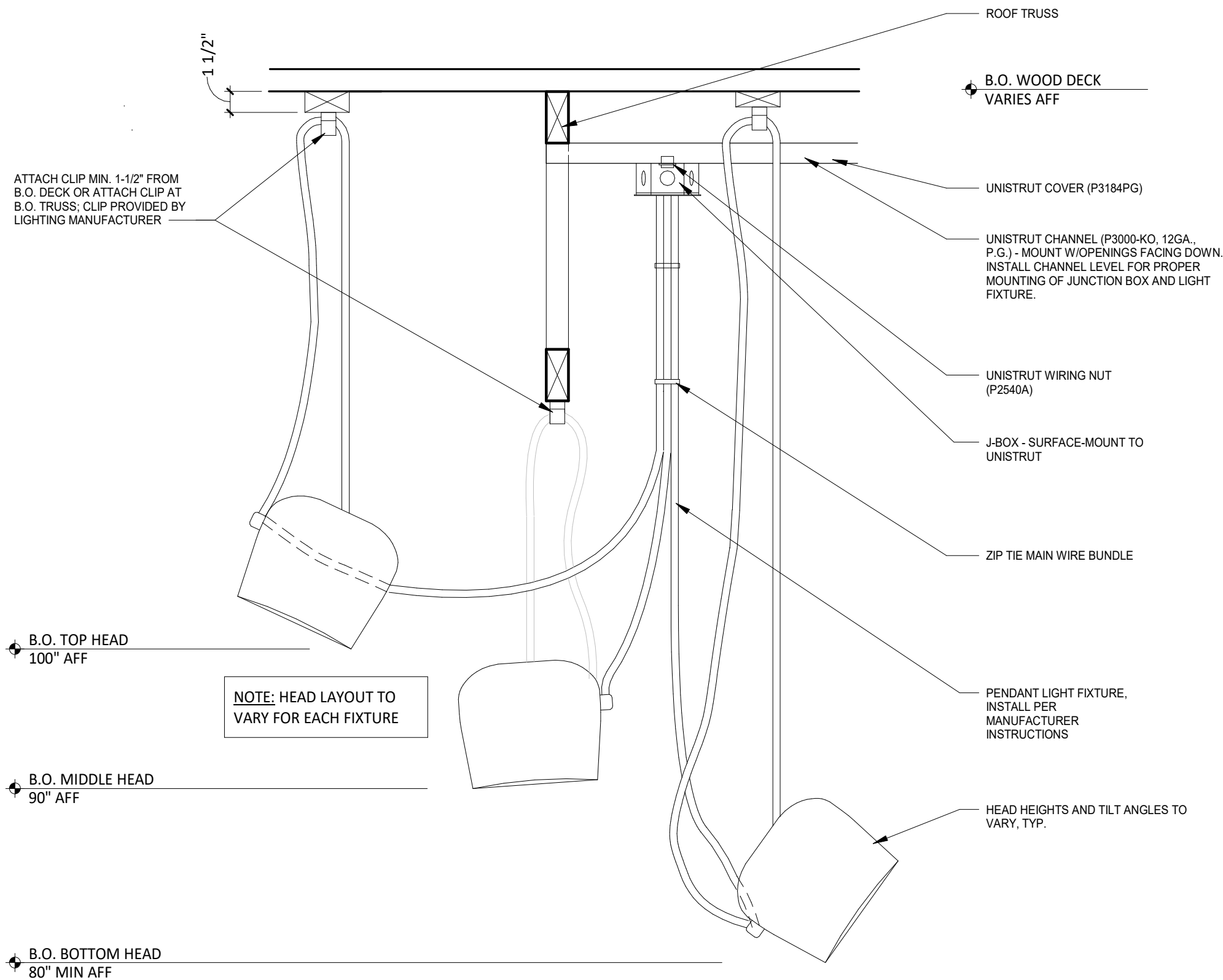
Issue Record:	
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Revisions:	

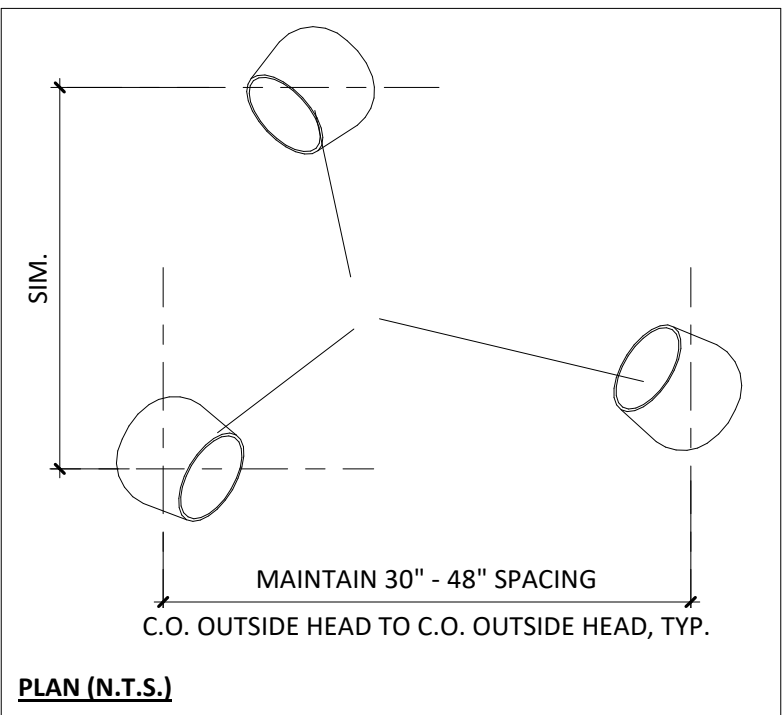
Project No.
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Lighting Details

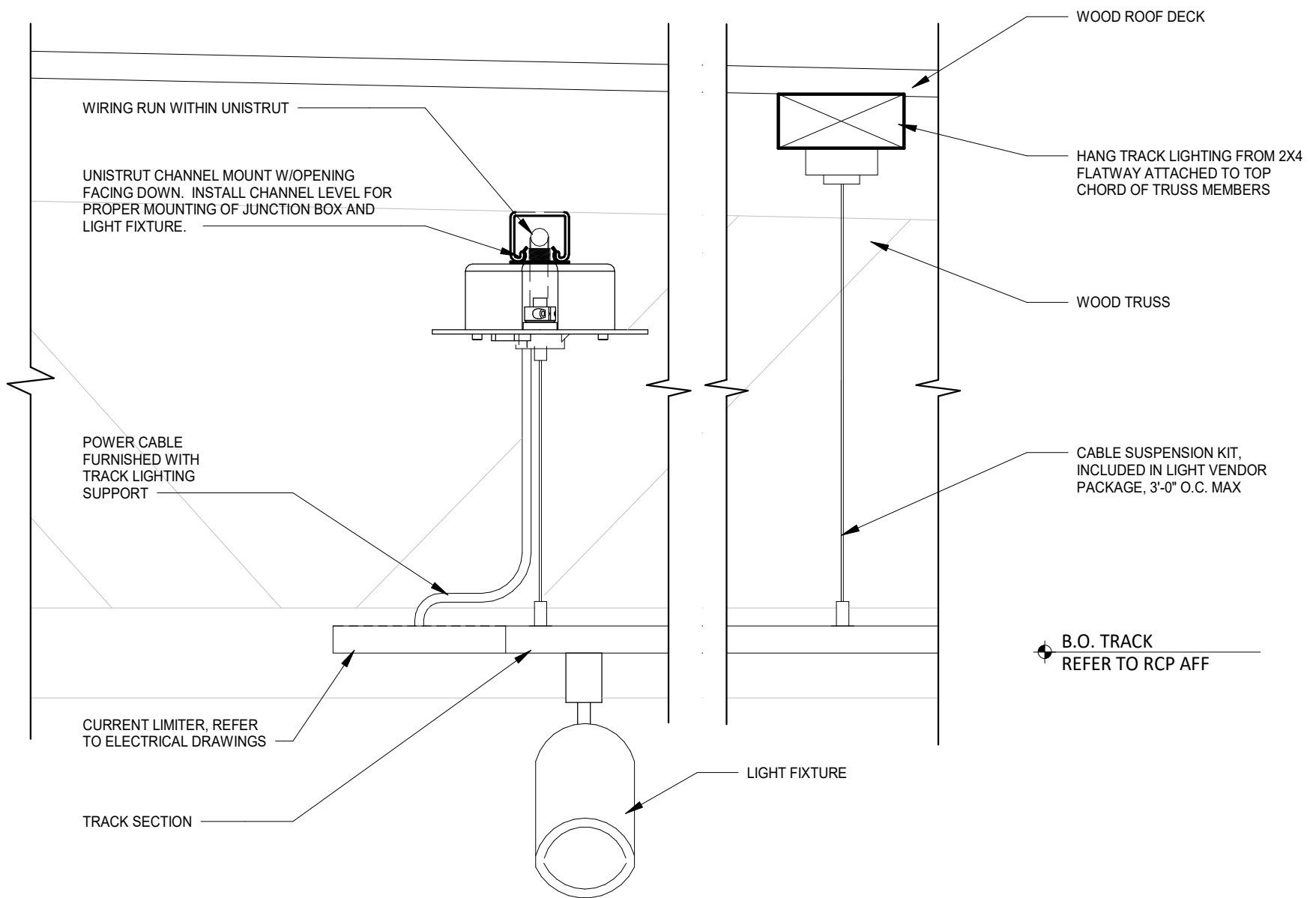
A211



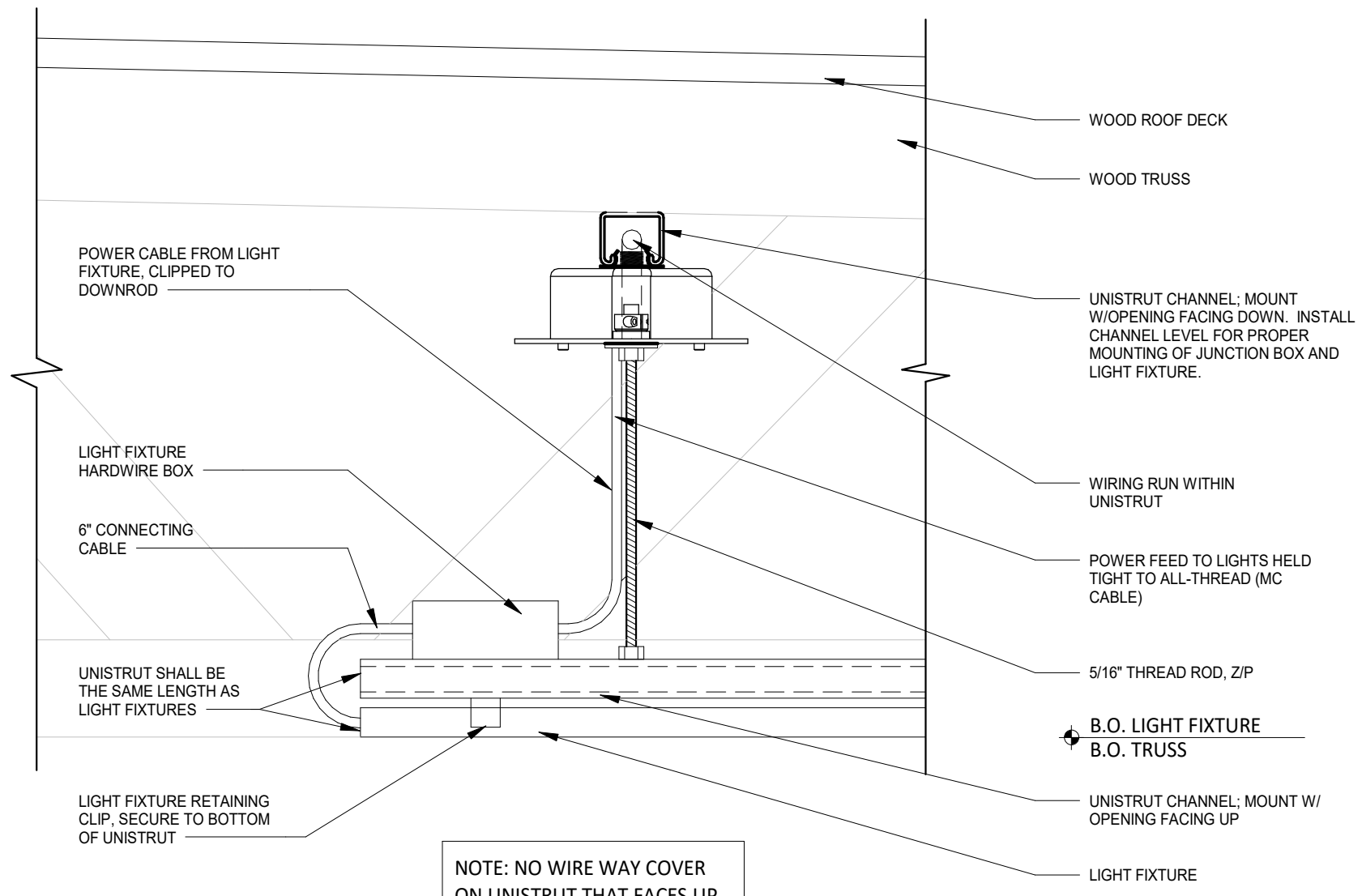
4 SUSPENDED LIGHT FIXTURE
1 1/2" x 1'-0"



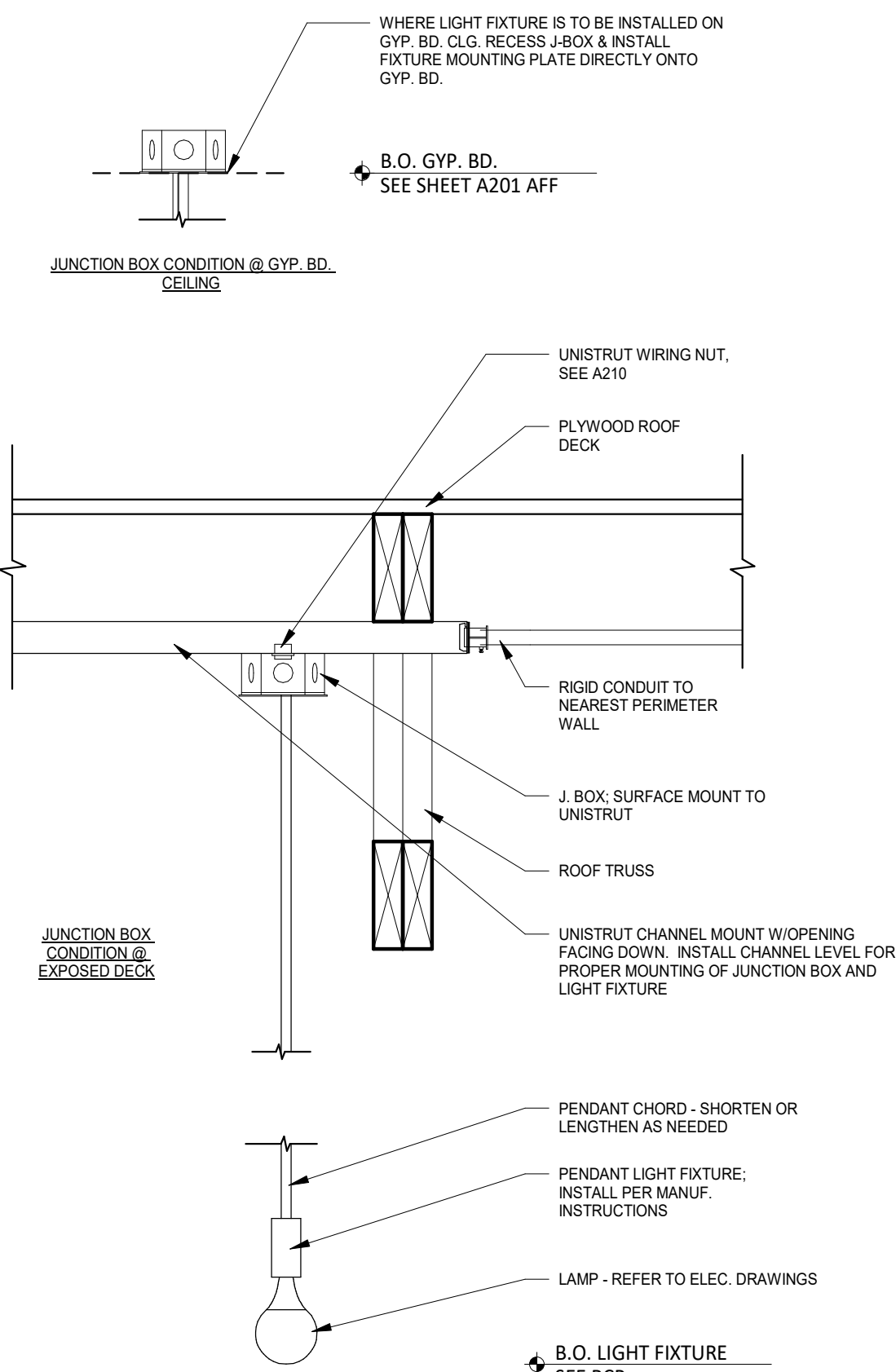
PLAN (N.T.S.)



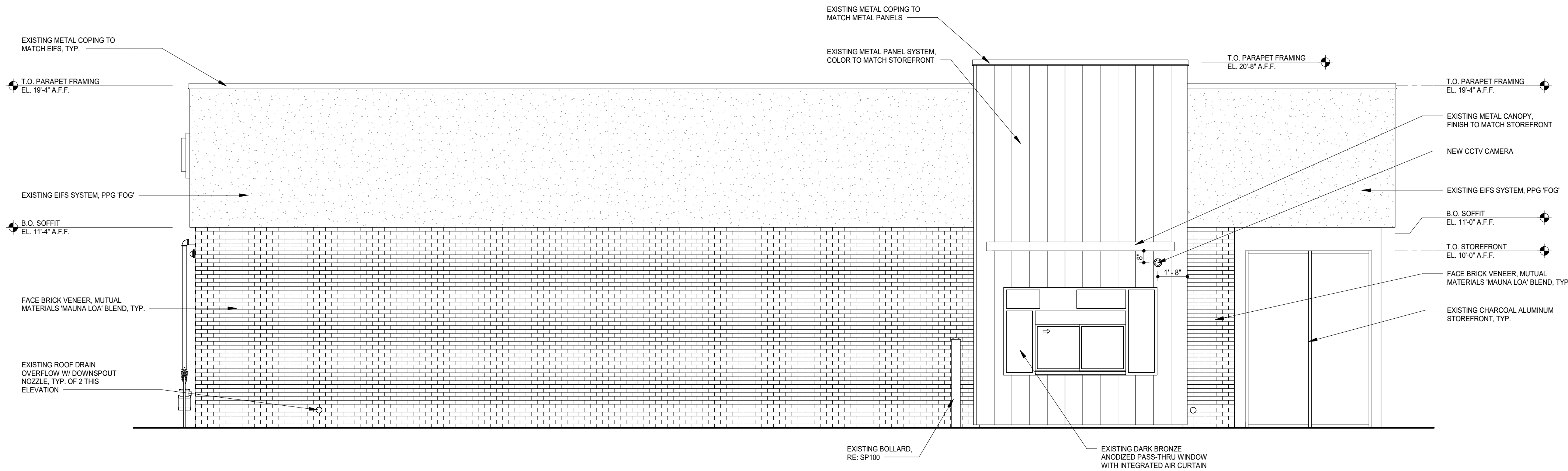
1 SUSPENDED TRACK LIGHT CONNECTION DETAIL
3' x 1'-0"



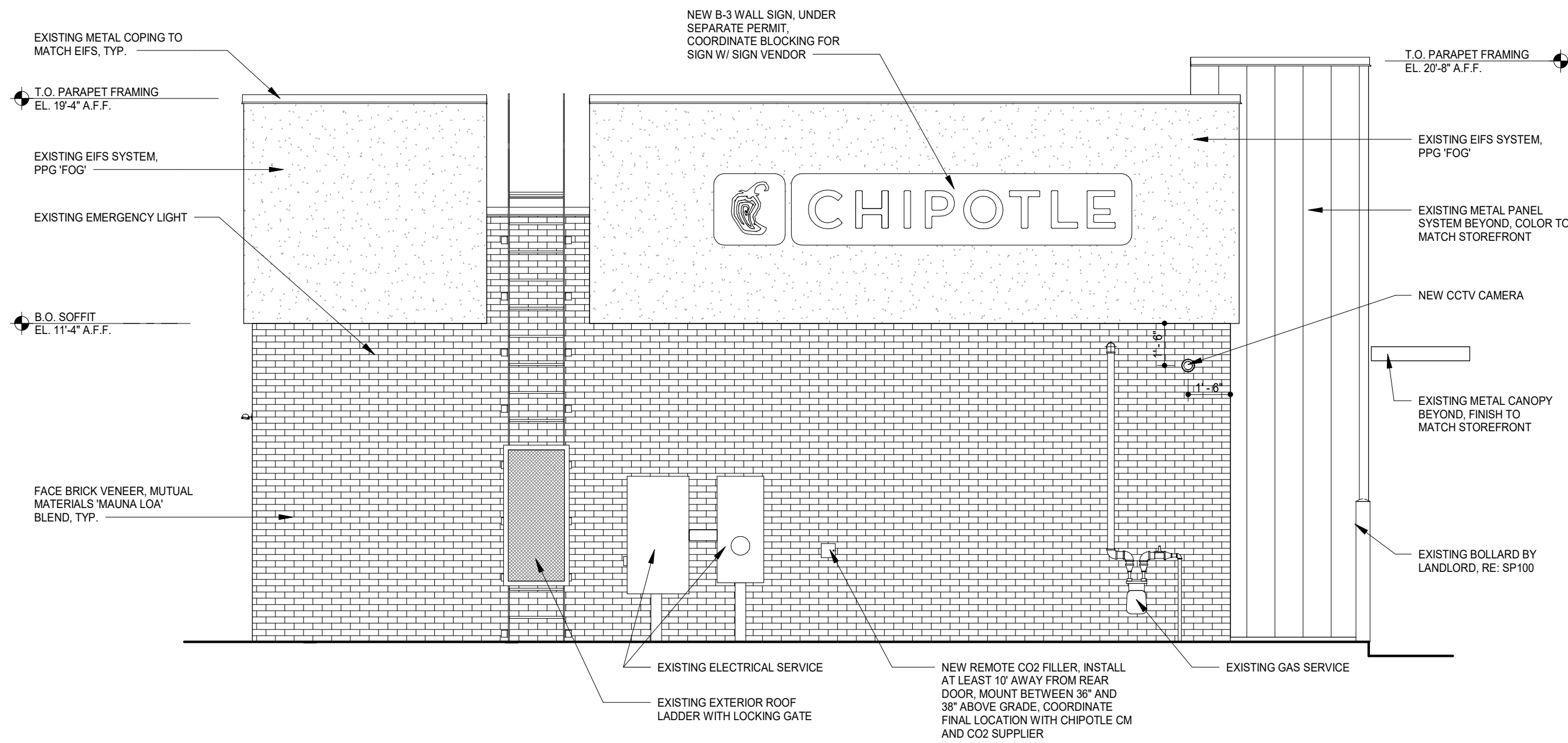
2 SUSPENDED STRIP LIGHT CONNECTION DETAIL
3' x 1'-0"



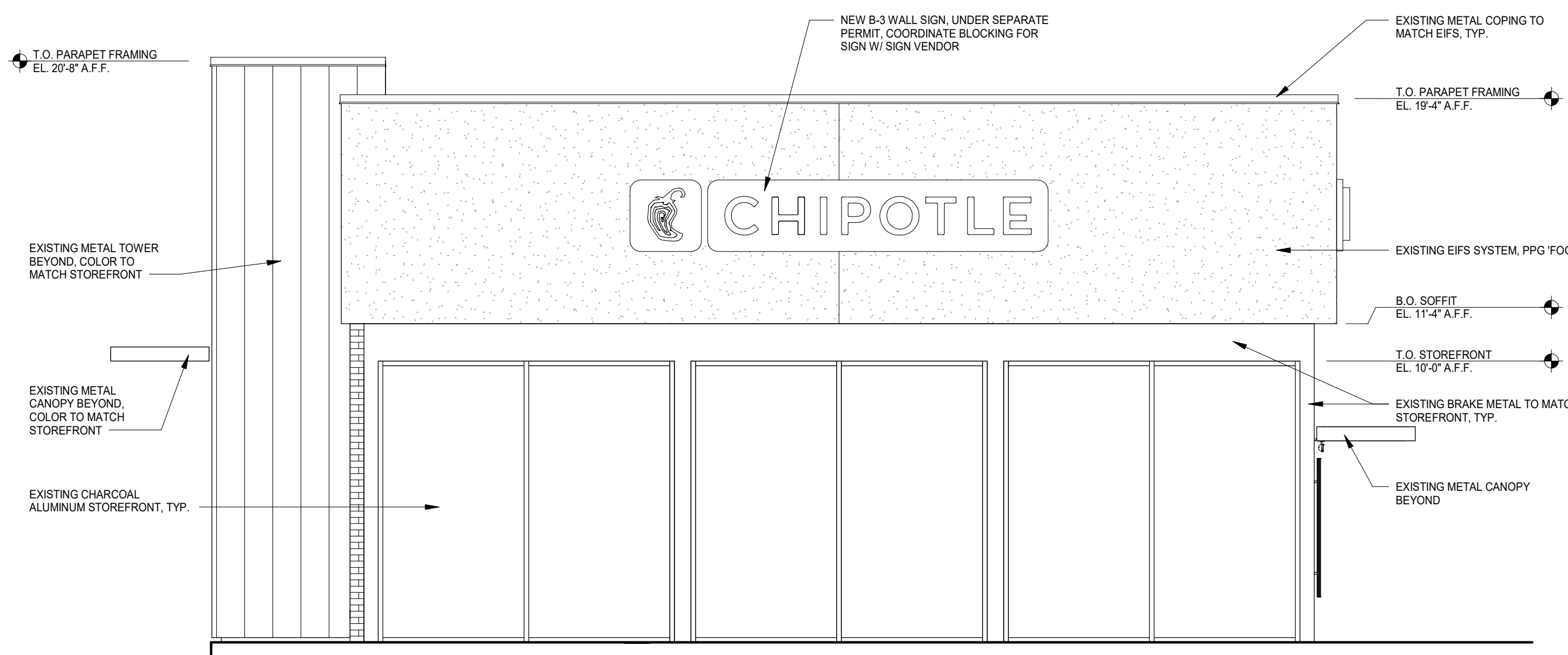
3 PENDANT LIGHT FIXTURE
1 1/2" x 1'-0"



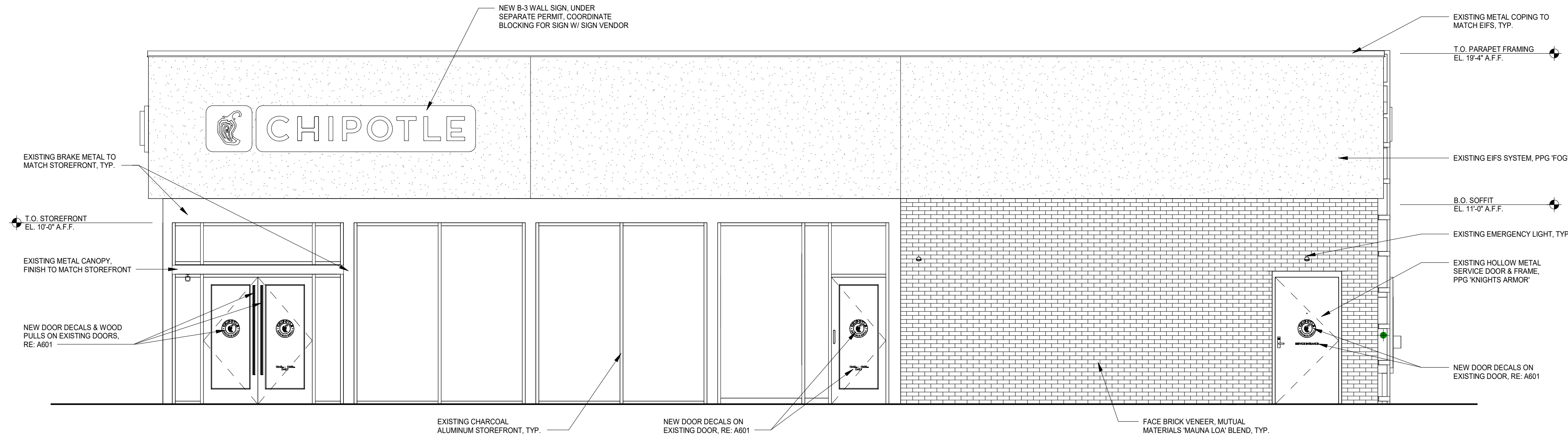
3 BUILDING ELEVATION - NORTH
1/4" = 1'-0"



2 BUILDING ELEVATION - EAST
1/4" = 1'-0"



4 BUILDING ELEVATION - WEST
1/4" = 1'-0"



1 BUILDING ELEVATION - SOUTH
1/4" = 1'-0"

GENERAL NOTES

- SIGNAGE IS SHOWN ONLY FOR PLACEMENT, SCALE & DESIGN INTENT. ALL SIGNAGE SHALL BE REVIEWED UNDER SEPARATE PERMIT.
 - EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV, GC TO MAKE FINAL CONNECTION.
- PATCH AND REPAIR ALL FACADES IN PREMISES WHERE EXISTING SIGNS OR FIXTURES HAVE BEEN REMOVED OR WHERE FACADE HAS BEEN DAMAGED OR IS DISCLOSED.
- ENSURE THAT ALL STOREFRONT HAS CONTINUOUS, CLEAN SEALANT AROUND THE INTERIOR AND EXTERIOR PERIMETER BETWEEN THE STOREFRONT AND THE EXTERIOR WALL FINISHES.
- ALL COMPONENTS NOTED AS "EXISTING" IS EITHER AN EXISTING CONDITION OR NEW WORK THAT WILL BE PERFORMED BY THE LANDLORD UNDER A SEPARATE PERMIT PRIOR TO CHIPOTLE TAKING POSSESSION. ANY COMPONENT NOT NOTED SHALL BE ASSUMED TO BE "EXISTING". ALL COMPONENTS NOTED AS "NEW" IS IN THE SCOPE OF WORK OF THIS PROJECT.

DUNGAN
DESIGN
GROUP

8826 Santa Fe Drive Suite 304
Overland Park, KS 66212
913-341-2466



01/24/25

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Lake St. Louis
Store No. 4470
8270 Old Highway N
Lake St. Louis, MO 63367

Issue Record:
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Project No.
01638

Exterior Elevations

A301



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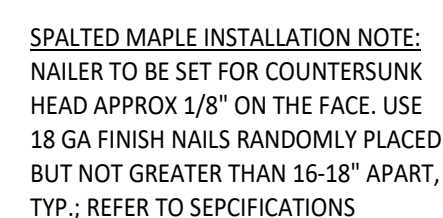
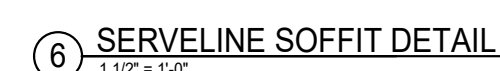
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Lake St. Louis, MO 63367

[illegible]

Interior Sections

A502



TAG	DESCRIPTION	DOOR						FRAME			HARDWARE SET	FIRE RATING	REMARKS	
		STATUS	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	STILE	DOOR FINISH	STATUS	FRAME TYPE				FRAME FINISH
1	MAIN ENTRY - PAIR	EXISTING	6'-0"	7'-0"	1 3/4"	A	WIDE	PERMAFLUOR CHARCOAL	EXISTING	ALUM. STOREFRONT	PERMAFLUOR CHARCOAL	1		1,2,4,5
2	DINING EXIT - SINGLE	EXISTING	3'-0"	7'-0"	1 3/4"	A	WIDE	PERMAFLUOR CHARCOAL	EXISTING	ALUM. STOREFRONT	PERMAFLUOR CHARCOAL	2		1,3,4,5
3	KITCHEN EXIT - SINGLE	EXISTING	3'-6"	7'-0"	1 3/4"	D	-	D1, RE: A120	EXISTING	HOLLOW METAL	D1, RE: A120	3		1,4,6. ONLY PAINT INTERIOR SIDE OF DOOR & FRAME, EXTERIOR PAINT IS EXISTING
4	ADMIN - SINGLE	NEW	3'-0"	7'-0"	1 3/4"	C	-	D1, RE: A120	NEW	HOLLOW METAL	D1, RE: A120	4		
5	RESTROOM 103 - SINGLE	NEW	3'-0"	7'-0"	1 3/4"	B	-	D1, RE: A120	NEW	HOLLOW METAL	D1, RE: A120	5		
6	RESTROOM 104 - SINGLE	NEW	3'-0"	7'-0"	1 3/4"	B	-	D1, RE: A120	NEW	HOLLOW METAL	D1, RE: A120	5		
7	KITCHEN PASSAGE	NEW	3'-0"	7'-0"	1 3/4"	C	-	D1, RE: A120	NEW	HOLLOW METAL	D1, RE: A120	6		1

1. DOORS WITH REMARK #1 TO BE KEYPED THE SAME
2. EXIT INDICATOR ARRIVES WITH SIGN STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED" SIGN TO BE PLACED IN A VISIBLE LOCATION ABOVE THE DOORS
3. THERE ARE TO BE NO EXTERIOR HOLES OR CYLINDERS
4. USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD
5. BLACK DOOR SWEEP TO BE USED WITH CHARCOAL OR DARK BRONZE STOREFRONT. LIGHT GRAY DOOR SWEEP TO BE USED WITH CLEAR ANODIZED ALUMINUM STOREFRONT
6. DOOR AND FRAME FINISHES FOR EXTERIOR DOOR APPLY ONLY TO THE INTERIOR SIDE OF EXTERIOR DOOR. RE: EXTERIOR ELEVATIONS FOR EXTERIOR FINISHES

* IF STATUS IS "EXISTING" G.C. TO DETERMINE CONDITION OF EXISTING HARDWARE. IF HARDWARE IS IN POOR CONDITION,

STOREFRONT DOORS

ALIGN TOP OF WOOD PULL WITH TOP OF GLASS

WOOD PULL BY TENANT MILLWORK SUPPLIER, REFER TO HARDWARE SCHEDULE, THIS SHEET

12" PEPPER DISC LOGO IN HIGH PERFORMANCE, CAST VINYL COLOR: 'WHITE'

HOURS OF OPERATION
1 1/2" FONT: GOTHAM
MEDIUM COLOR: 'WHITE'

ALUMINUM STILE & RAIL, DOOR WITH TEMPERED GLASS

11:00 AM - 10:00 PM DAILY

EQ

SERVICE DOOR

12" PEPPER DISC LOGO IN HIGH PERFORMANCE CAST VINYL COLOR: 'WHITE OR BLACK' CONFIRM PRIOR TO ORDERING

SERVICE ENTRANCE
1 1/2" FONT: GOTHAM
MEDIUM COLOR: 'WHITE'

SERVICE ENTRANCE

TYP. METAL SERVICE DOOR

1 MAIN ENTRY - PAIR		2 PATIO DOOR - SINGLE LEAF		3 KITCHEN	
EXISTING HARDWARE:		EXISTING HARDWARE:		EXISTING HARDWARE:	
(2) CONTINUOUS HINGE	HAGER, MODEL 780-224HD-83" CLR	(1) CONTINUOUS HINGE	HAGER, MODEL 780-224HD-83" CLR	(1) HINGE	(1) HINGE
(2) MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR	(1) EXIT DEVICE	ADAMS RITE, MODEL 8801-36-628 (ALUMINUM FINISH, 36" DOOR); C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR	(1) PANIC	(1) PANIC
(1) TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)	(1) NON-OFFSET PULL	HAGER, MODEL 4G US32 (6" CTC), CENTER ON DOOR STILE	(1) PULL	(1) PULL
(1) DEADBOLT	ADAMS RITE, MODEL MS18505-310-628	(1) DOOR CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)	(1) REM	(1) REM
(1) EXIT INDICATOR	ADAMS RITE, MODEL 4089-30-130	(1) CLOSER BACK PLATE	DORMA, MODEL BPS9, ALUMINUM	(1) THRESHOLD	(1) THRESHOLD
(1) HEADER BOLT	ADAMS RITE, MODEL 4016-30-01	(1) OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-US32D (ALUMINUM)	(1) DOOR	(1) DOOR
(1) THRESHOLD BOLT	ADAMS RITE, MODEL 4015-18-1B	(1) THRESHOLD	REESE, MODEL S42AA-36 (SIZE 36") USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD	(1) CLOSURE	(1) CLOSURE
(2) DOOR CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)	(1) SMOKE SEAL	REESE, MODEL 797B-21	(1) WEAR	(1) WEAR
(2) DOOR STOP	IVES, MODEL FS185 (ALUMINUM)	(1) DOOR STOP	IVES, MODEL FS185 (ALUMINUM)	(1) DOOR	(1) DOOR
(2) OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)			(1) KICK	(1) KICK
(2) CLOSER BACK PLATE	DORMA, MODEL BPS9, ALUMINUM				
(1) THRESHOLD	REESE, MODEL S239A-72 (SIZE 72") W/ SURFACE-MOUNT WALK-OFF MATT				
(2) SMOKE SEAL	REESE, MODEL 797B-21				
		NEW HARDWARE (TENANT FURNISHED):			
		(1) DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR)		NEW HARDWARE:

4 ADMIN - SINGLE LEAF		5 RESTROOMS 103 & 104 - SINGLE LEAF		6 KITCHEN	
(3) HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)	(3) HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)	(3) HINGE	HINGE
(1) LOCKSET	SCHLAGE, MODEL L9453L-06A-626	(1) CLOSER	FALCON, MODEL SC61WR/PAXALU	(1) CLOSER	CLOSER
(1) TEMP CORE	SCHLAGE, MODEL 80-036 INTERCHANGEABLE CORE (BRUSHED CHROME)	(1) LOCKSET	SCHLAGE, MODEL CO-100-CY-40-KP-RHO-626-PD	(1) LOCKSET	LOCKSET
(1) KICK PLATE	HIAWATHA, MODEL KP834-US32D	(1) DOOR STOP	DON-JO, 1467-690	(1) DOOR STOP	DOOR STOP
(1) DOOR STOP	DON-JO, MODEL 1467-630, STAINLESS STEEL	(3) DOOR SILENCERS	IVES, MODEL SR84	(1) DOOR STOP	DOOR STOP
(3) DOOR SILENCERS	IVES, MODEL SR84	(1) KICK PLATE	HIAWATHA, MODEL KP834-US32D	(1) DOOR STOP	DOOR STOP
(1) SECURITY WINDOW	AIR LOUVERS, MODEL VSL1212TEMPKAC SLJLMINE 12" x 12" x 1/4" LITE KIT (10" x 10" GLASS VISIBLE)	(1) COAT HOOK	MILLS MODEL FTS119, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" A.F.F.	(1) DOOR STOP	DOOR STOP

RE: DOOR SCHED

RE: DOOR SCHED

EQ

EQ

10"

10"

14" CLEAR TEMPERED GLASS

RE: DOOR SCHEDULE

3'-7"

RE: DOOR SCHEDULE

KICK PLATES WHERE SCHEDULED

5/8" UNDERCUT

RE: DOOR SCHED

5"

6"

5"

RE: DOOR SCHEDULE

10"

DOOR TYPE D
INSULATED HOLLOW
METAL DOOR

DOOR TYPE C
INSULATED HOLLOW
METAL DOOR

DOOR TYPE B
HOLLOW METAL
DOOR

DOOR TYPE A
WIDE STILE & RAIL
ALUMINUM DOOR
W/ TEMPERED GLAZING

[illegible]

1. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
3. THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE OUTSIDE IN THE CASE OF AN EMERGENCY.
4. ALL DOORS ARE TO REMAIN UNLOCKED DURING BUSINESS HOURS.
5. RE: THIS SHEET FOR EXTERIOR DOOR SIGNAGE INFORMATION
6. MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE-RATED DOORS.
7. ALL INTERIOR HOLLOW METAL DOORS, HOLLOW METAL DOOR FRAMES, AND DOOR HARDWARE (EXCEPT WOOD PULLS/PUSHES - PROVIDED BY TENANT MILL/WORK SUPPLIER) ARE PROVIDED BY CHIPLET'S HARDWARE SUPPLIER AND INSTALLED BY TENANT G.C. CONTACT PETE KLUKES WITH TWIN CITY HARDWARE AT 763-535-4660 TO ARRANGE DELIVERY.
8. 1/2" TO 1" INCHES OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
9. SIGNAGE PROVIDED BY TENANT'S SUPPORT SIGNAGE SUPPLIER AND INSTALLED BY G.C..
10. ALL GLAZING IN DOORS SHALL BE CLEAR, TEMPERED SAFETY GLAZING.



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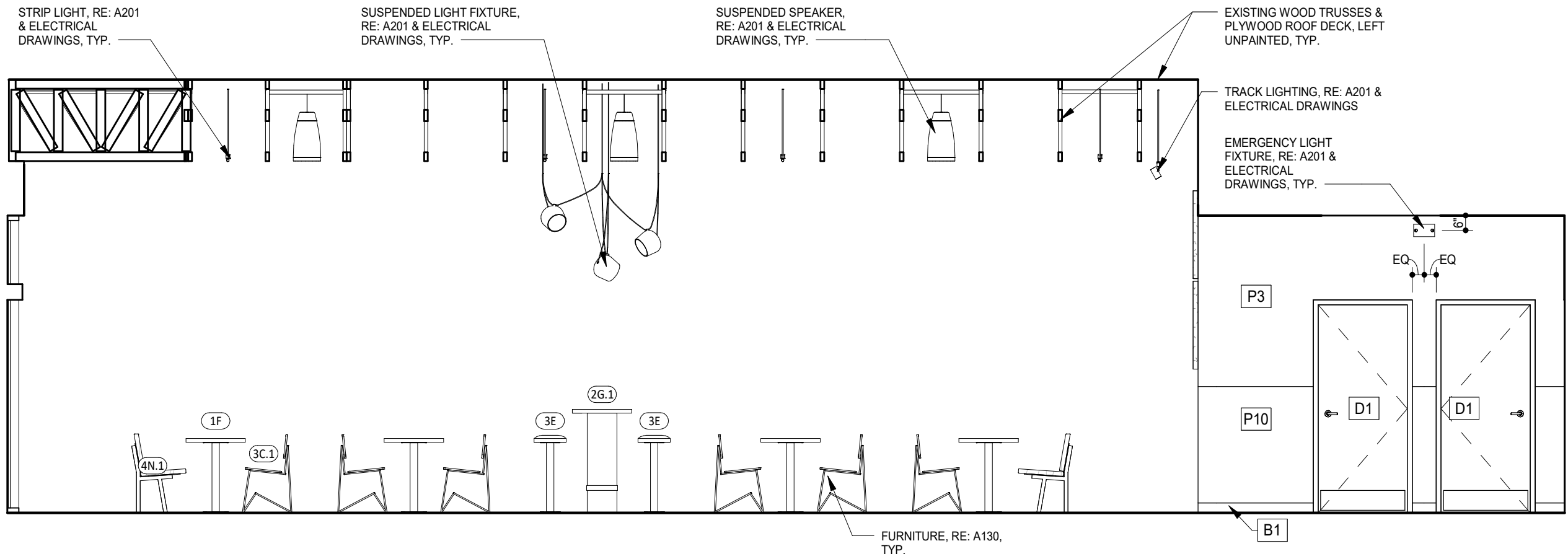
Revisions:

Project No.
01638

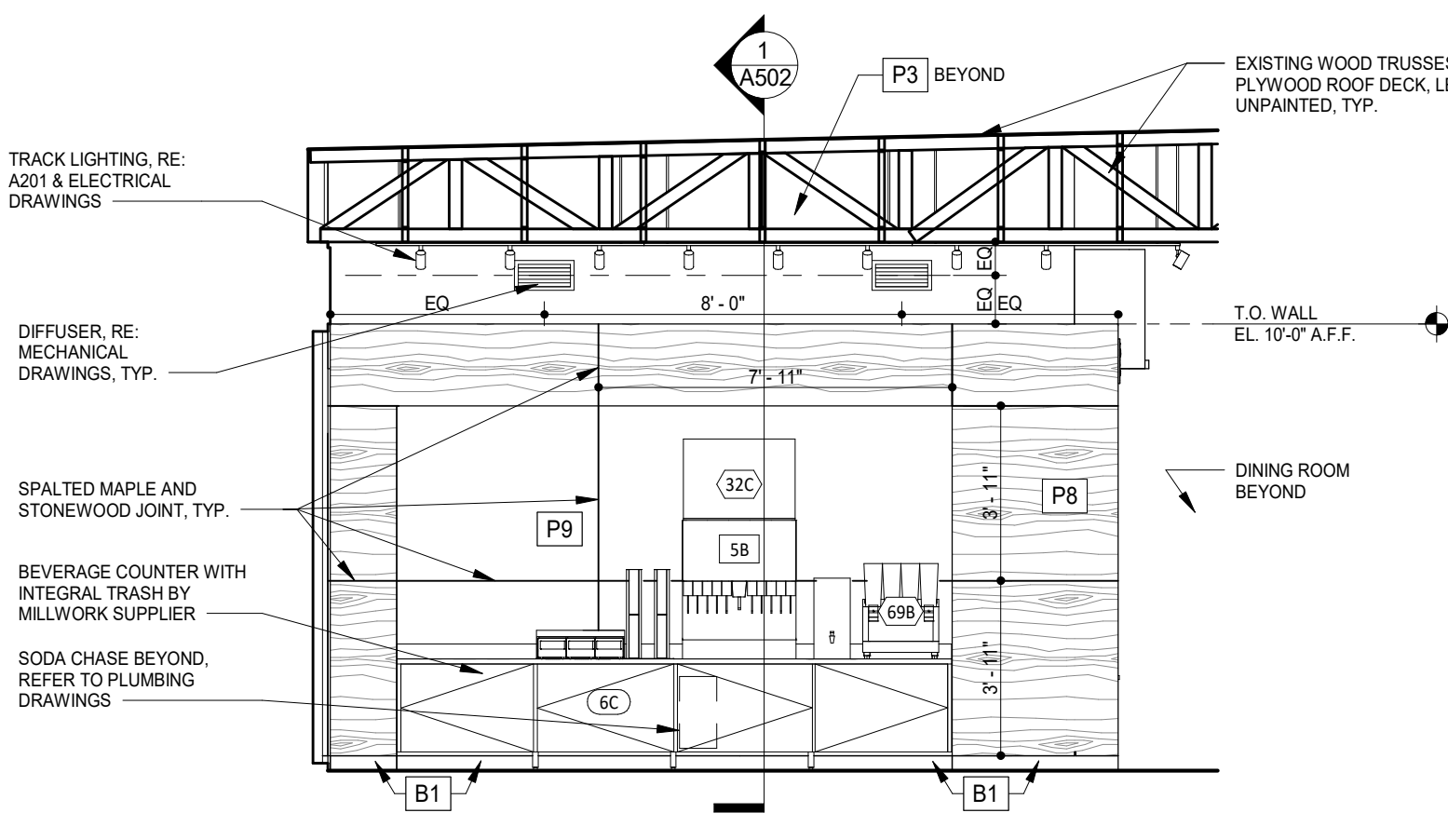
Elevations - Interior
Dining

A701

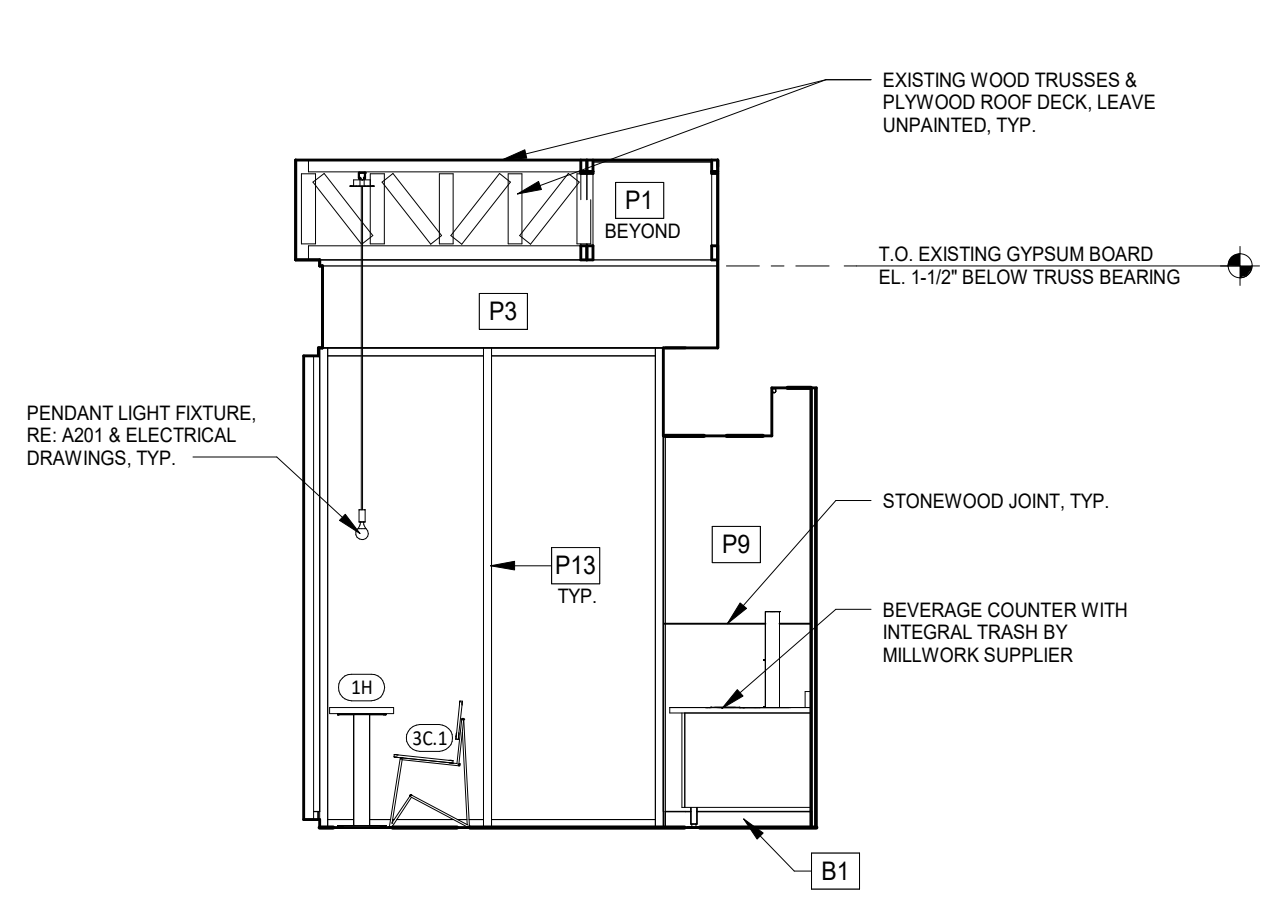
WALL BASE FINISHES		WALL FINISHES		DOOR FINISHES	
B1	4" BLACK RUBBER - NO COVE, RE: 485/A801	P1	PLYWOOD BETWEEN TRUSSES, VERTICAL GRAIN, RE: 5/A502	D1	PAINT "BLACK"
B2	QUARRY TILE WITH COVE, RE: 4-7/A802 & 19/A802	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	D2	PAINT "KNIGHTS ARMOR"
B3	4" BLACK RUBBER BASE WITH COVE, RE: 18/A801	P3	GYPNUM BOARD, PAINT "THIN ICE", EGGSHELL, REFER TO 701 AND A710		
B4	QUARRY TILE - NO COVE, RE: 2/A802	P4	GYPNUM BOARD, PAINT "THIN ICE", SEMI-GLOSS FINISH BELOW 4'-3" A.F.F.		
B5	CERAMIC TILE BASE, RE: 3/A802	P5	CERAMIC TILE - WHITE, RE: A802		
		P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)		
		P7	EXPOSED COOLER WALL (EMBOSSED COATED STEEL)		
		P8	SPALTED MAPLE PANEL, HORIZONTAL GRAIN		
		P9	STONEWOOD PANEL, RE: 5/A801		
		P10	STONEWOOD WAINSCOT, RE: 2.3.168/19/A801		
		P11	CERAMIC TILE - ACCENT - BRONZE 3" X 12", RE: A802 ALTERNATE ACCENT TILE CHOICE: ALCHEMY 2" X 9" ARTESAN 2" X 4"		
		P12	PREFINISHED BRAKE METAL, EXISTING		
		P13	ALUMINUM STOREFRONT, EXISTING		
			DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.		



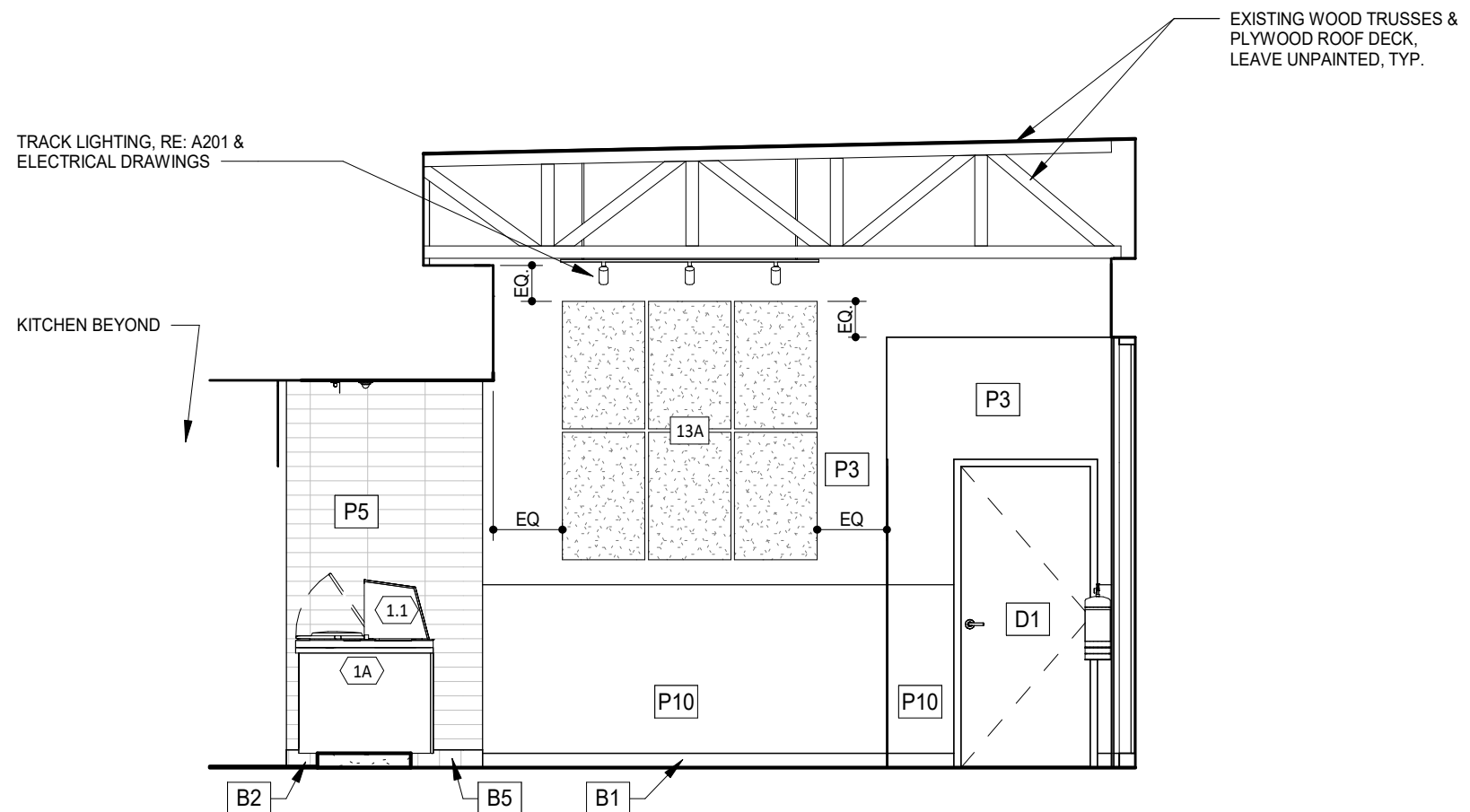
7 DINING ROOM ELEVATION
1/4" = 1'-0"



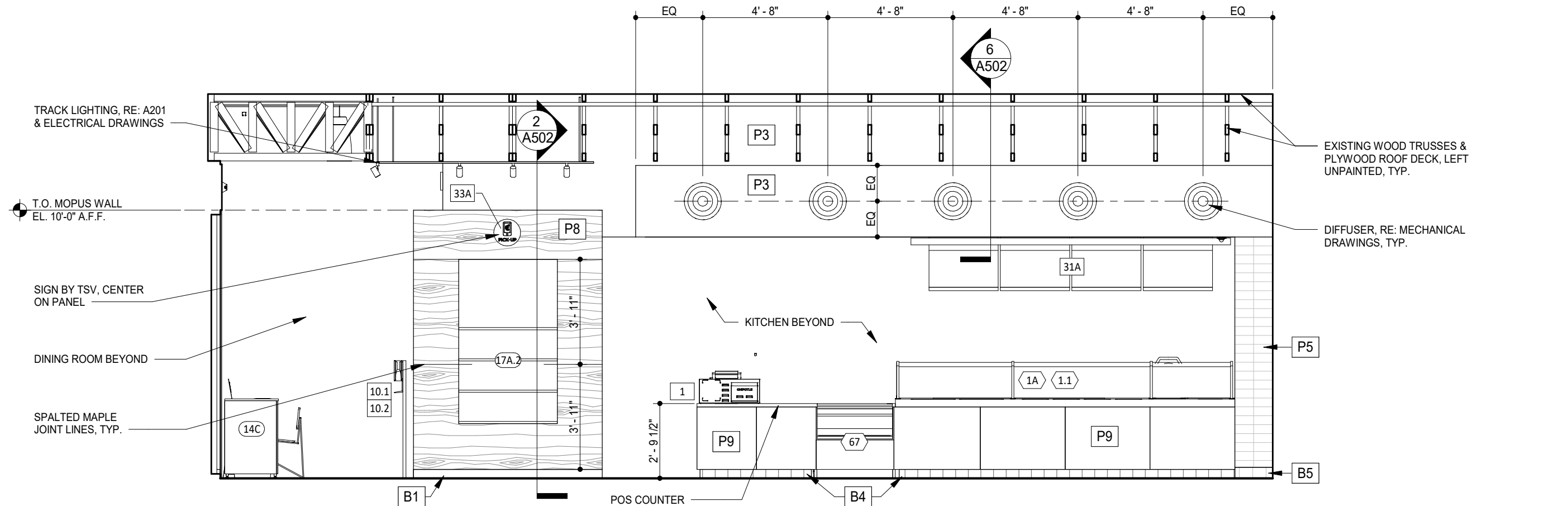
6 DINING ROOM ELEVATION
1/4" = 1'-0"



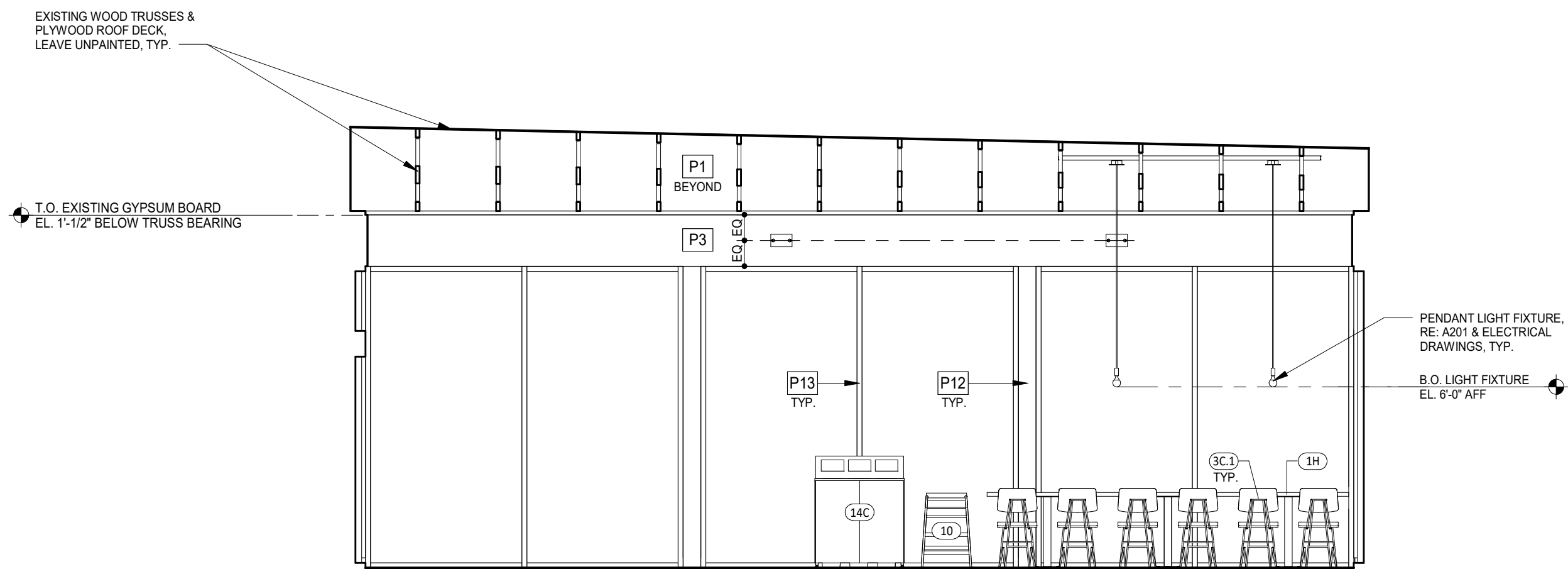
3 DINING ROOM ELEVATION
1/4" = 1'-0"



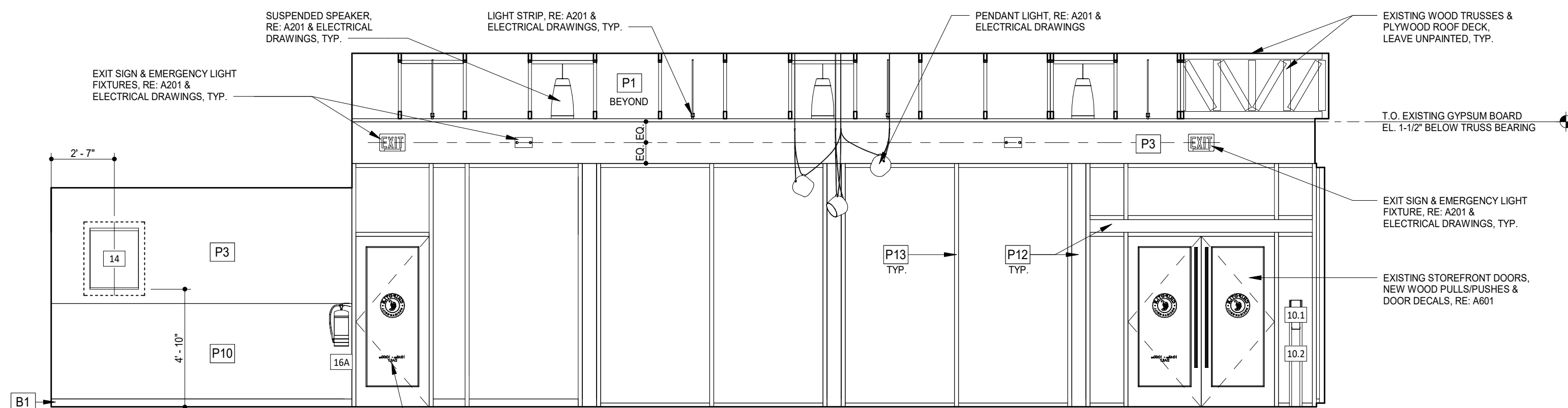
5 DINING ROOM ELEVATION
1/4" = 1'-0"



2 DINING ROOM ELEVATION
1/4" = 1'-0"



4 DINING ROOM ELEVATION
1/4" = 1'-0"



1 DINING ROOM ELEVATION
1/4" = 1'-0"



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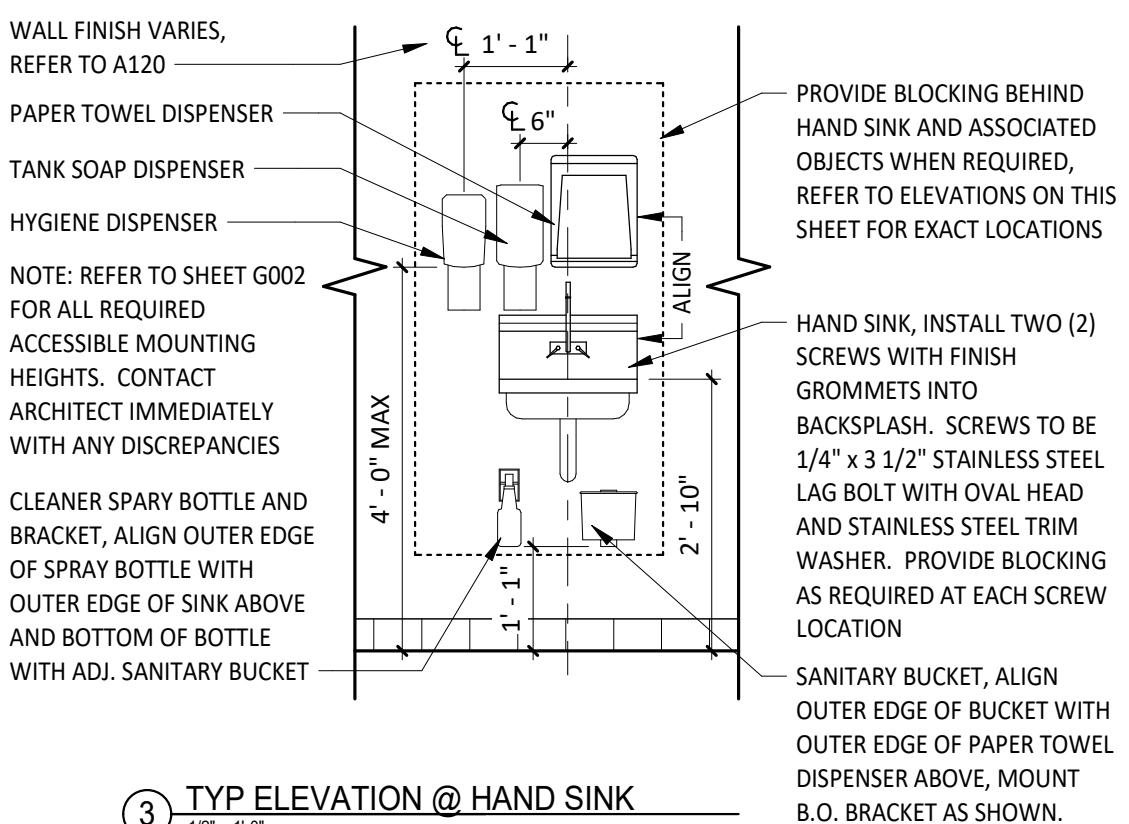
Elevations - Interior
Kitchen

A702

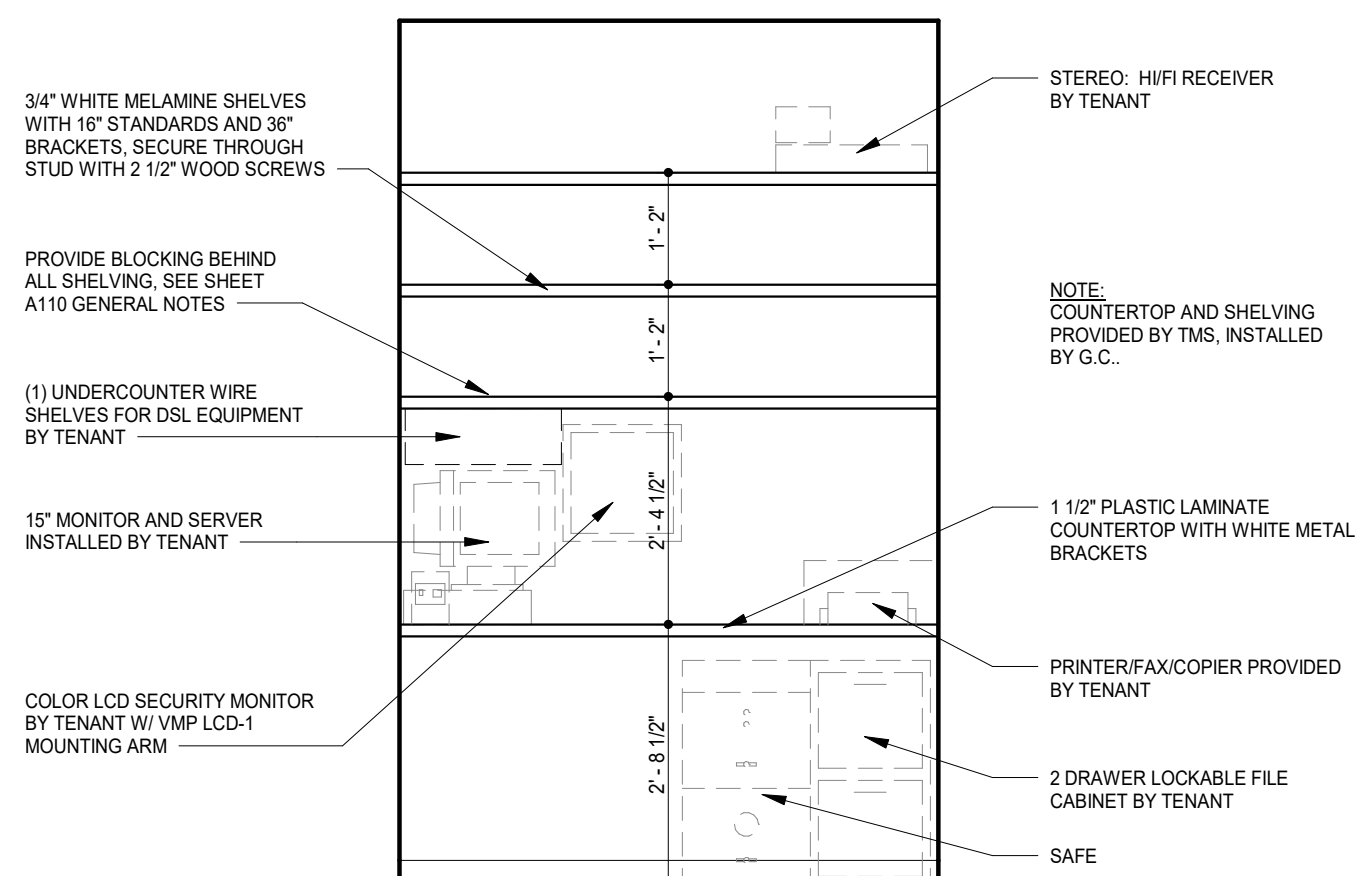
FINISH LEGEND

WALL BASE FINISHES	WALL FINISHES	DOOR FINISHES
B1 4" BLACK RUBBER - NO COVE, RE: 4/ASAB01	P1 PLYWOOD BETWEEN TRUSSES, VERTICAL GRAIN, RE: 3/AS02	D1 PAINT "BLACK"
B2 QUARRY TILE WITH COVE, RE: 4-7/A802 & 19/A802	P2 FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	D2 PAINT "KNIGHTS' ARMOR"
B3 4" BLACK RUBBER BASE WITH COVE, RE: 18/A801	P3 GYPSUM BOARD, PAINT "THIN ICE", EGGSHELL, REFER TO 701 AND A710	
B4 QUARRY TILE - NO COVE, RE: 2/A802	P4 GYPSUM BOARD, PAINT "THIN ICE", SEMI-GLOSS FINISH BELOW 4'-3" A.F.F.	
B5 CERAMIC TILE BASE, RE: 3/A802	P5 CERAMIC TILE - WHITE, RE: A802	
	P6 FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)	
	P7 EXPOSED COOLER WALL (EMBOSSED COATED STEEL)	
	P8 SPALTED MAPLE PANEL, HORIZONTAL GRAIN	
	P9 STONEWOOD PANEL, RE: 5/A801	
	P10 STONEWOOD WAINSCOT, RE: 2.3.168/19/A801	
	P11 CERAMIC TILE - ACCENT - BRONZE 3" X 12", RE: A802 ALTERNATE ACCENT TILE CHOICE: ALCHEMY 2" X 9" ARTESAN 2" X 4"	
	P12 PREFINISHED BRAKE METAL, EXISTING	
	P13 ALUMINUM STOREFRONT, EXISTING	
	DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.	

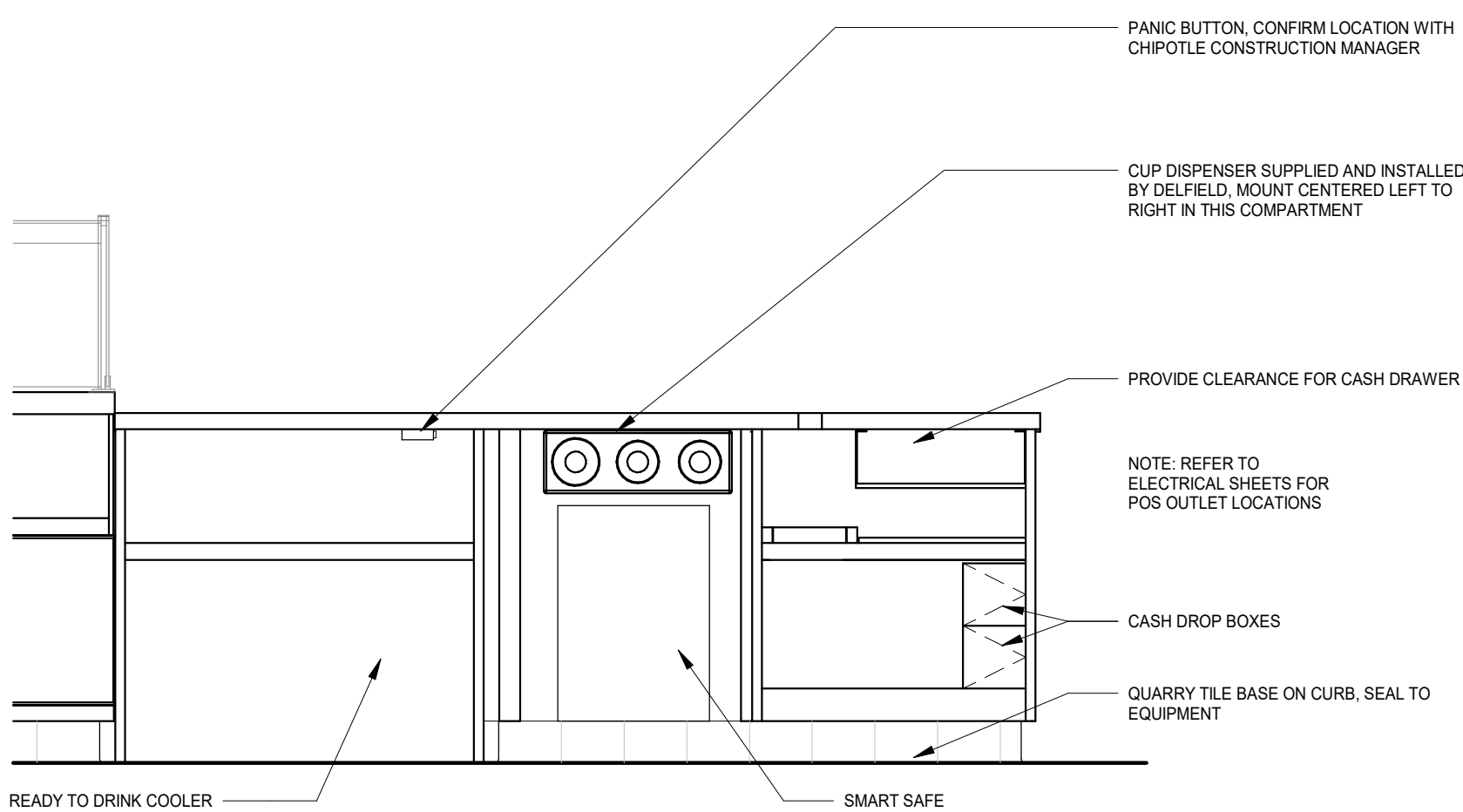
*THIS DETAIL IS FOR HANDSINK ACCESSORY DIMENSIONS ONLY. FOR ACTUAL ORIENTATION OF HAND SINK AND ACCESSORIES, REFER TO KITCHEN ELEVATIONS



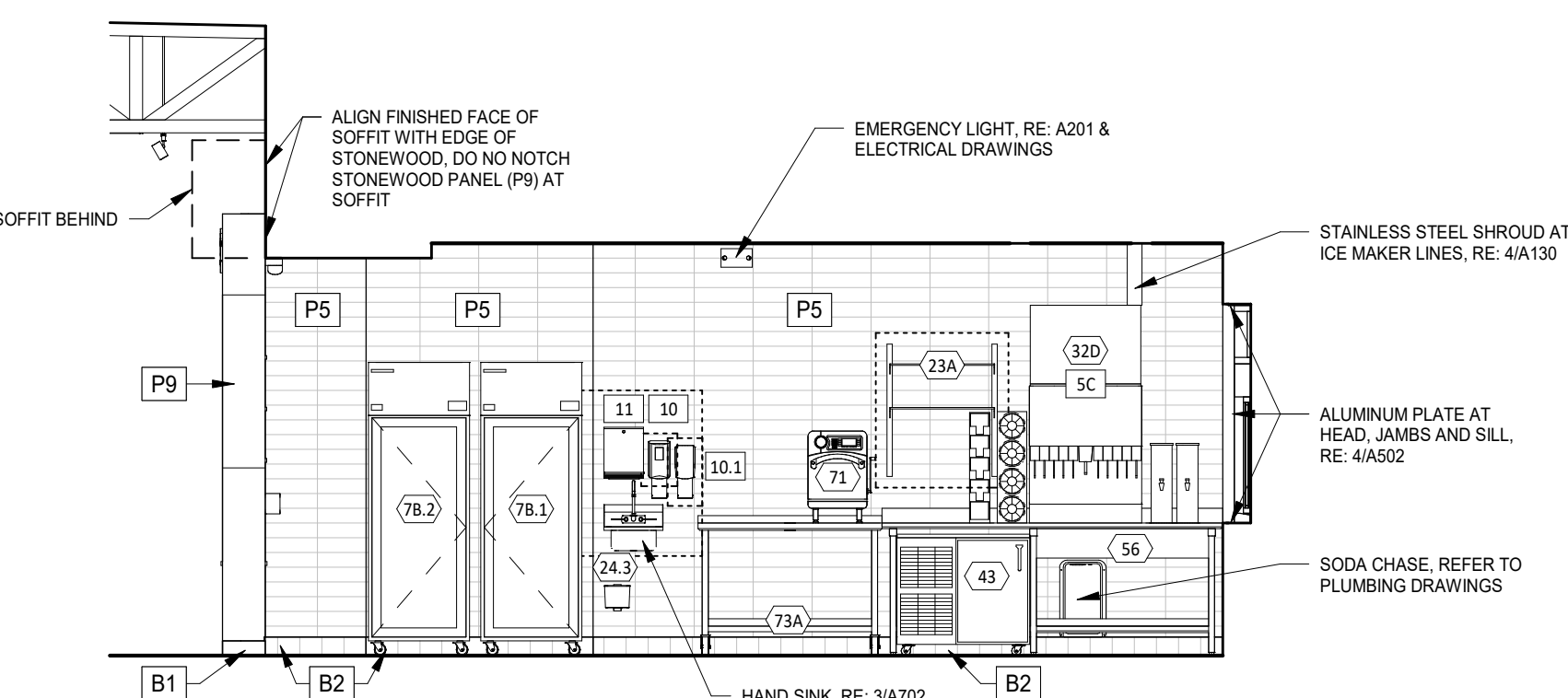
3 TYP ELEVATION @ HAND SINK
1/2" = 1'-0"



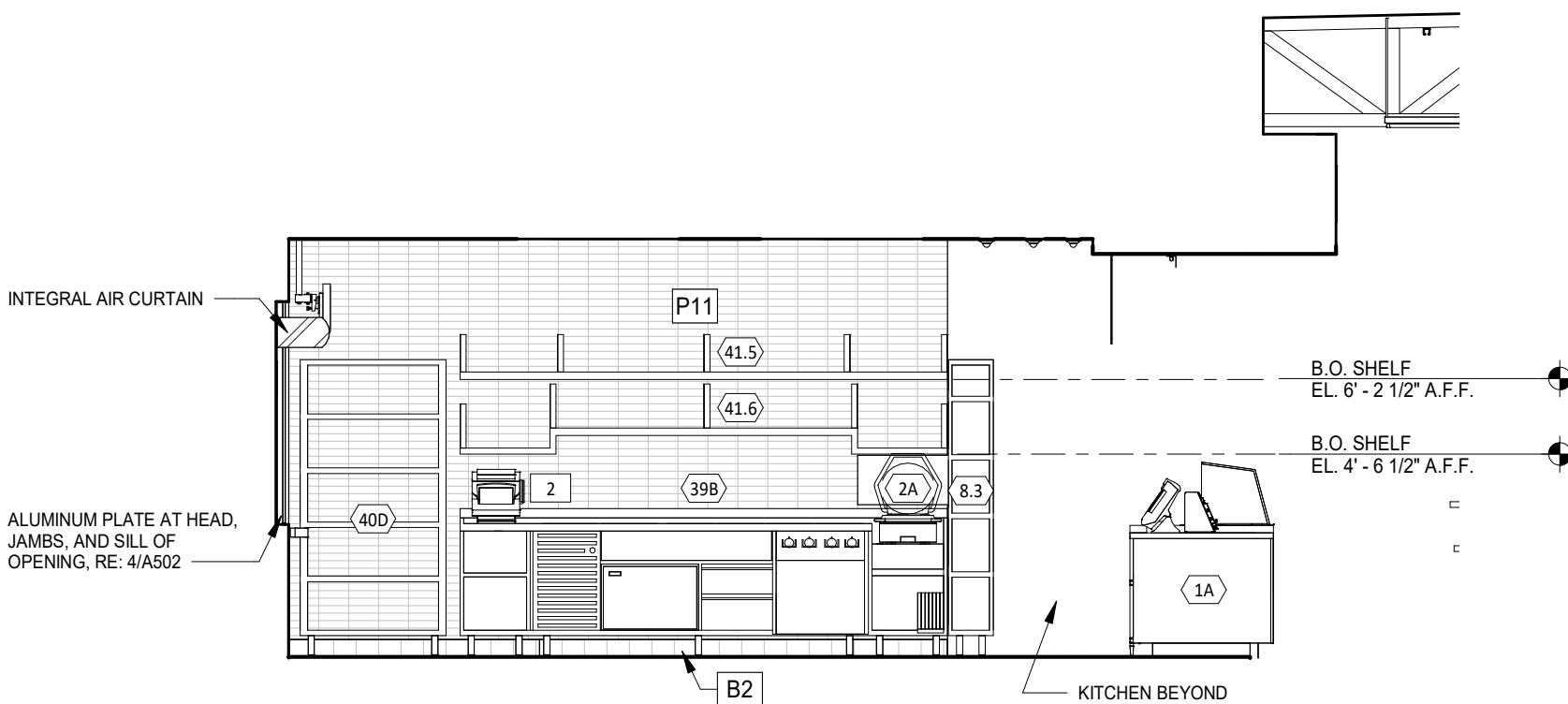
2 TYP ELEVATION @ OFFICE SHELVEING
1/2" = 1'-0"



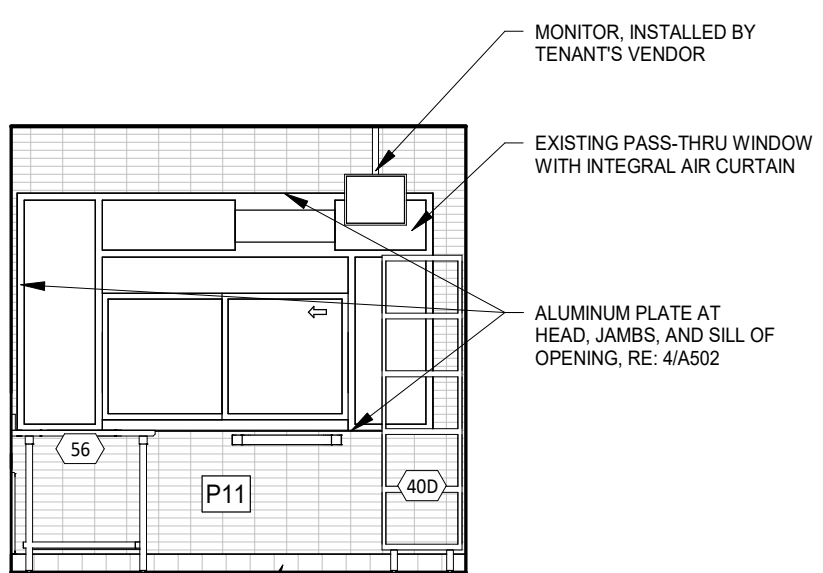
1 TYP. ELEV. - POS
3/4" = 1'-0"



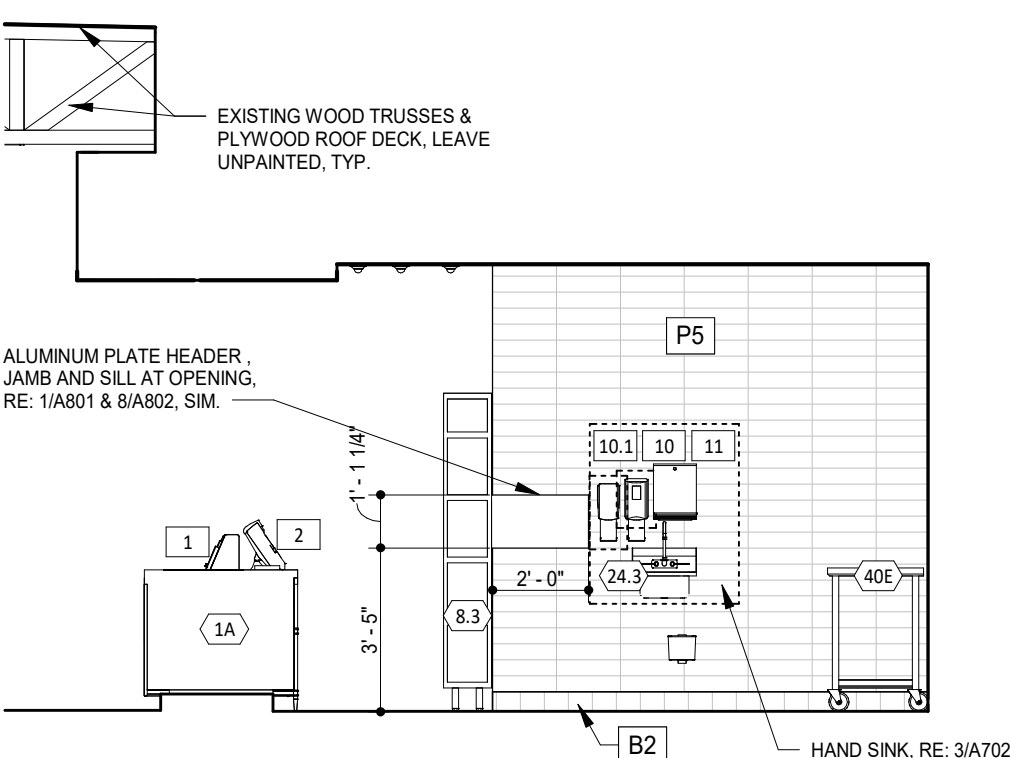
6 KITCHEN ELEVATION
1/4" = 1'-0"



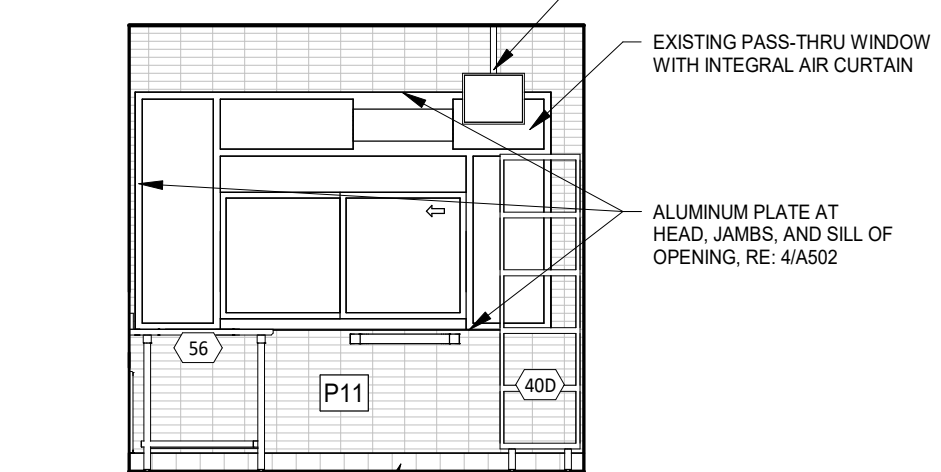
5 KITCHEN ELEVATION
1/4" = 1'-0"



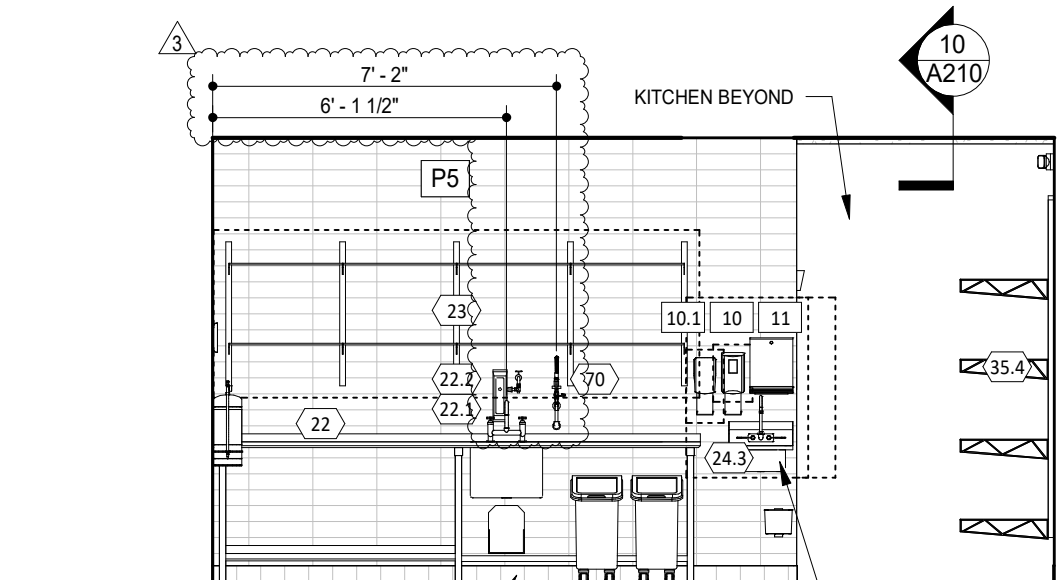
8 KITCHEN ELEVATION
1/4" = 1'-0"



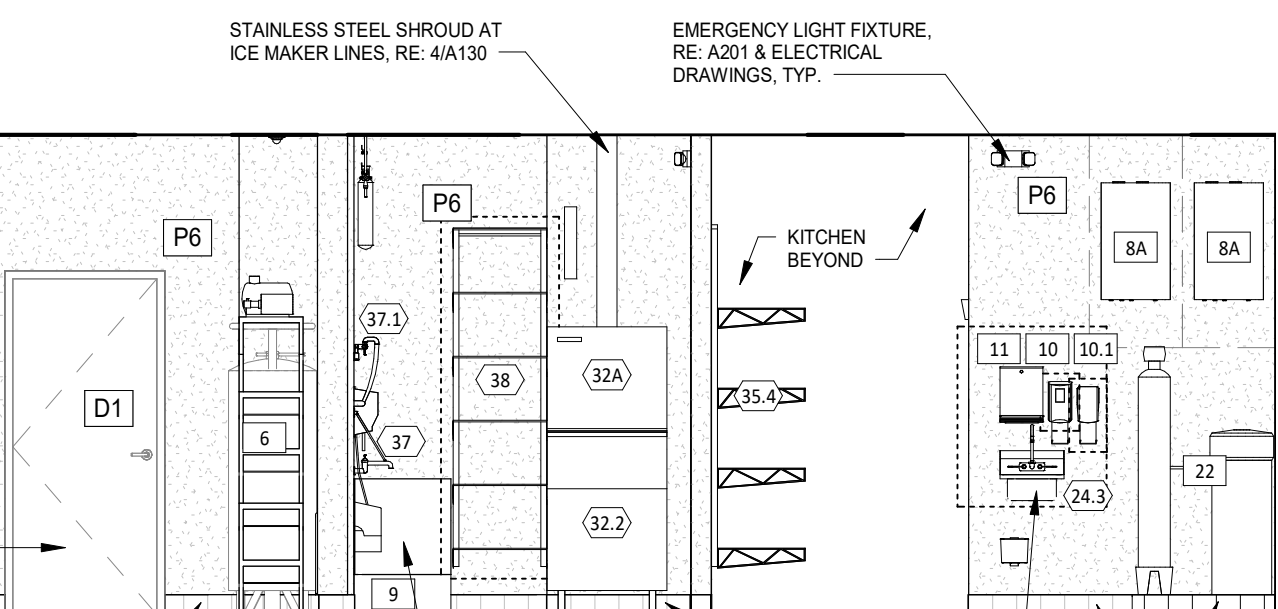
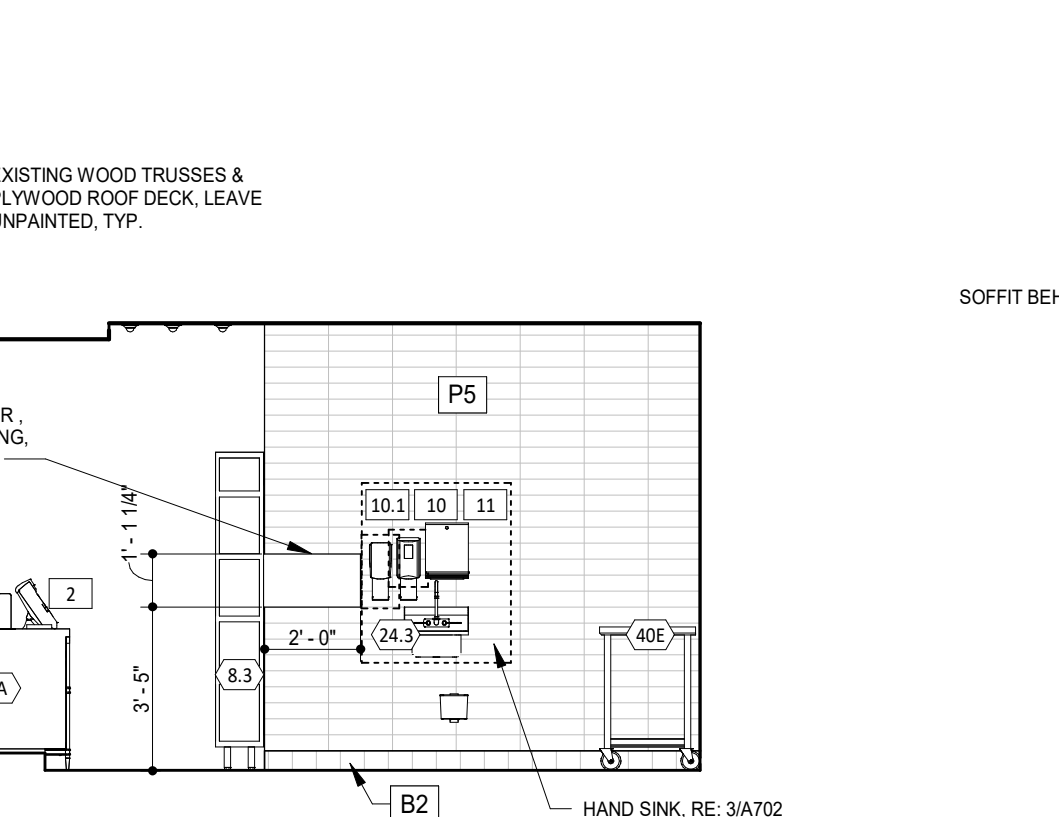
9 KITCHEN ELEVATION
1/4" = 1'-0"



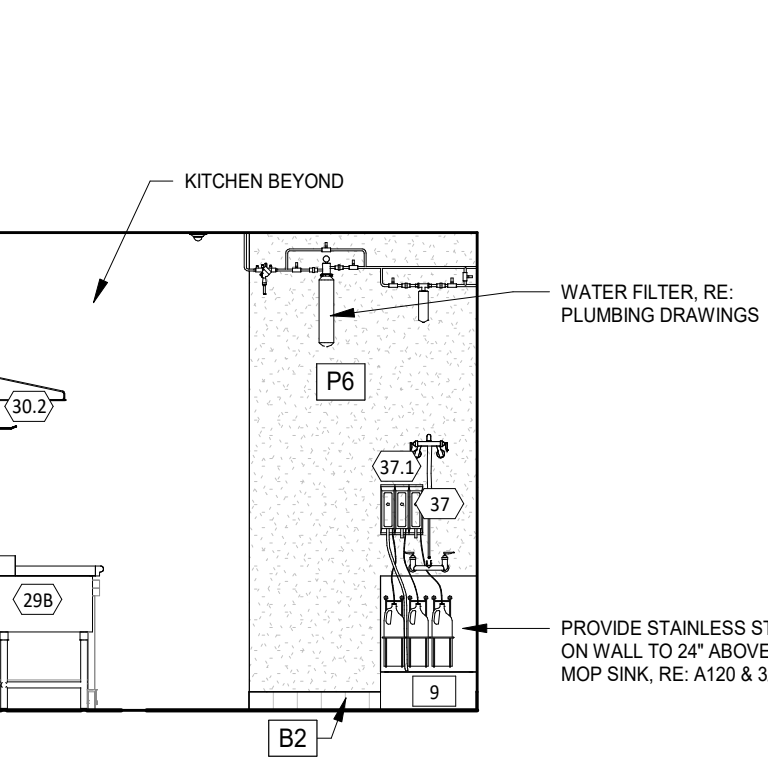
10 KITCHEN ELEVATION
1/4" = 1'-0"



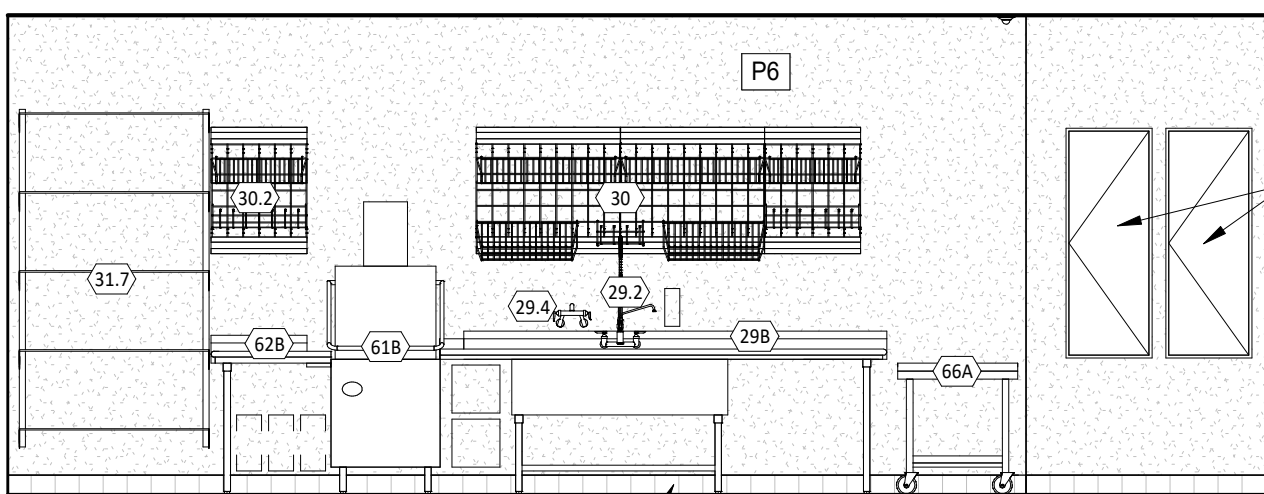
11 KITCHEN ELEVATION
1/4" = 1'-0"



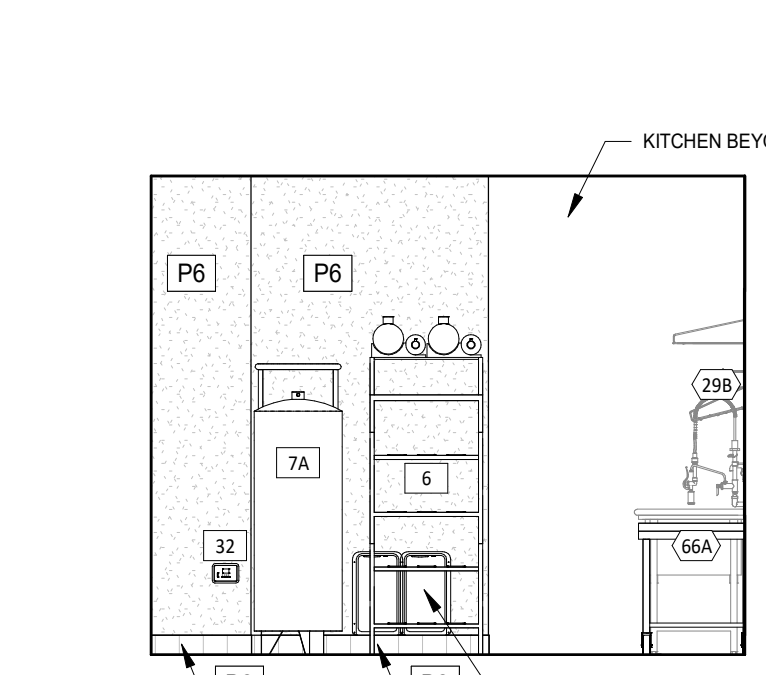
13 KITCHEN ELEVATION
1/4" = 1'-0"



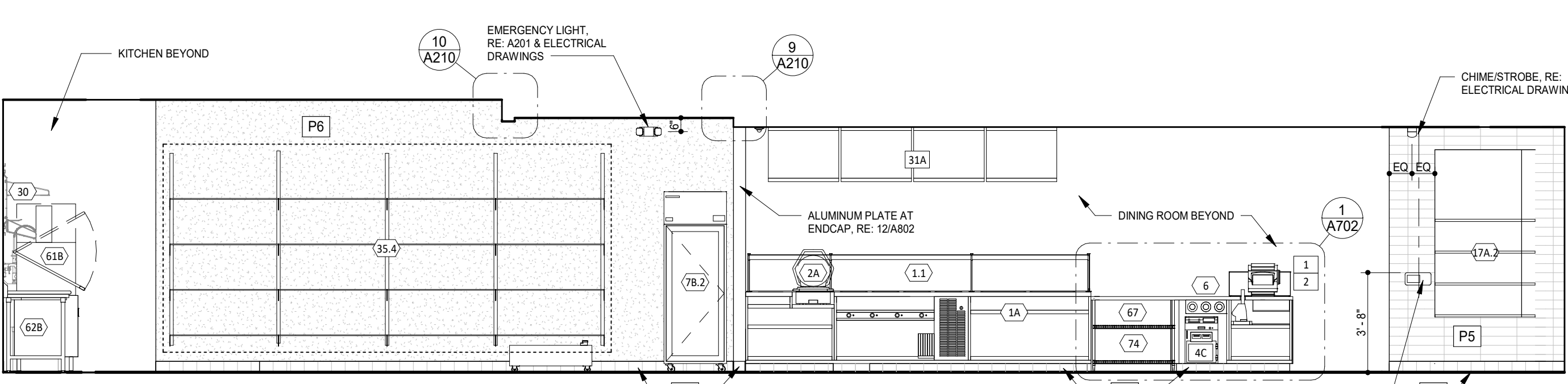
14 KITCHEN ELEVATION
1/4" = 1'-0"



15 KITCHEN ELEVATION
1/4" = 1'-0"



16 KITCHEN ELEVATION
1/4" = 1'-0"



17 KITCHEN ELEVATION
1/4" = 1'-0"

RESTROOM ACCESSORY SCHEDULE

ITEM #	DESCRIPTION	MFG	MODEL	QTY	PROVIDED BY	INSTALLED BY	UTILITY				MOUNTING HEIGHT	REMARKS
							ELEC	GAS	WATER	SEWER		
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1B	Grab Bar - 42in	ASI	3501-42	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	2	WA	GC					40" AFF to Centerline of Bottom Return	Provide Plywood Blocking to Mount to Wall
3	Mirror	ASI	0600B 18x36	2	WA	GC					Bottom Edge of Reflecting Surface at 40" AFF	Provide Plywood Blocking to Mount to Wall
5	Touch-Free Soap Dispenser	Purell	CS8	2	WA	GC					47 1/2" AFF to Top of Unit	
7	Recessed Toilet Paper Dispenser	ASI	OC31	2	WA	GC					29" AFF to Top of Unit	Recess Mounted in Wall - Rough Opening: 6 1/4"W x 12 1/4"H x 3 3/8"D, Top Of Rough Opening @ 29 1/4" AFF
8	Utility Shelf	ASI	0692	2	WA	GC					46" AFF To Top Of Shelf	Provide Toggle Bolts to Mount to Wall
9	Recessed Convertible Paper Towel Dispenser and Waste Receptacle, Recess Mounted in Wall	Bobrick	B-3944	2	WA	GC					Bottom of Unit at Top of Floor Base, Bottom of Dispenser to be at 40" AFF, Recess Mounting In Wall	Provide Plywood Blocking to Mount to Wall
12	Napkin Disposal - Recessed	ASI	O473	2	WA	GC					Top of Rough Opening @ 29" AFF	Recess Mounted in Wall - Rough Opening: 11 1/4"W x 15 3/4"H x 4"D
14	Restroom Hand Sink	Kohler	K-2084	2	GC	GC					Mount Bottom of Front Edge Of The Sink At Exactly 29" AFF	
14.1	Restroom Hand Sink Faucet	T&S	EC-3102-TMV-LF-05	2	KES	GC						To Be Furnished With .5 GPM Aerator Installed. Thermostatic mixing valve is also included.
15	Hand Sanitizer Dispenser	Purell	ES8	2	WA	GC					Align T.O. Unit With T.O. Soap Dispenser	
16a	Surface Mounted Horizontal Baby Changing Station	Koala Care	KB200-05	2	WA	GC					Mount Bottom of Open Changing Bed at Exactly 27" AFF	GC to Provide adequate blocking to support the baby changing equipment. Blocking shall be installed in such a manner to not damage or compromise the rated assembly of the existing wall construction

FINISH LEGEND

WALL BASE FINISHES		WALL FINISHES		DOOR FINISHES	
B1	4" BLACK RUBBER - NO COVE, RE: 485/A801	P1	PLYWOOD BETWEEN TRUSSES, VERTICAL GRAIN, RE: 5/A502	D1	PAINT "BLACK"
B2	QUARRY TILE WITH COVE, RE: 4-7/A802 & 19/A802	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	D2	PAINT "KNIGHT'S ARMOR"
B3	4" BLACK RUBBER BASE WITH COVE, RE: 18/A801	P3	GYPSON BOARD, PAINT "THIN ICE", EGGSHELL, REFER TO 701 AND A710		
B4	QUARRY TILE - NO COVE, RE: 2/A802	P4	GYPSON BOARD, PAINT "THIN ICE", SEMI-GLOSS FINISH BELOW 4'-3" A.F.F.		
B5	CERAMIC TILE BASE, RE: 3/A802	P5	CERAMIC TILE - WHITE, RE: A802		
		P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)		
		P7	EXPOSED COOLER WALL (EMBOSSSED COATED STEEL)		
		P8	SPALTED MAPLE PANEL, HORIZONTAL GRAIN		
		P9	STONEWOOD PANEL, RE: 5/A801		
		P10	STONEWOOD WAINSCOT, RE: 2.3,16819/A801		
		P11	CERAMIC TILE - ACCENT - BRONZE 3" X 12", RE: A802 ALTERNATE ACCENT TILE CHOICE: ALCHEMY 2"X9" / ARTESAN 2"X 4"		
		P12	PREFINISHED BRAKE METAL, EXISTING		
		P13	ALUMINUM STOREFRONT, EXISTING		

GENERAL NOTES

- ALL DIMENSIONS ARE TO FINISHED FACE OF WALL, CENTER OF FIXTURE, OR EDGE OF FIXTURE, U.N.O.
- ALL ACCESSORIES SHALL BE BY MANUFACTURER NOTED IN RESTROOM ACCESSORY SCHEDULE OR TENANT APPROVED EQUAL
- PROVIDE SOLID WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS

ELEVATION LEGEND

 DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

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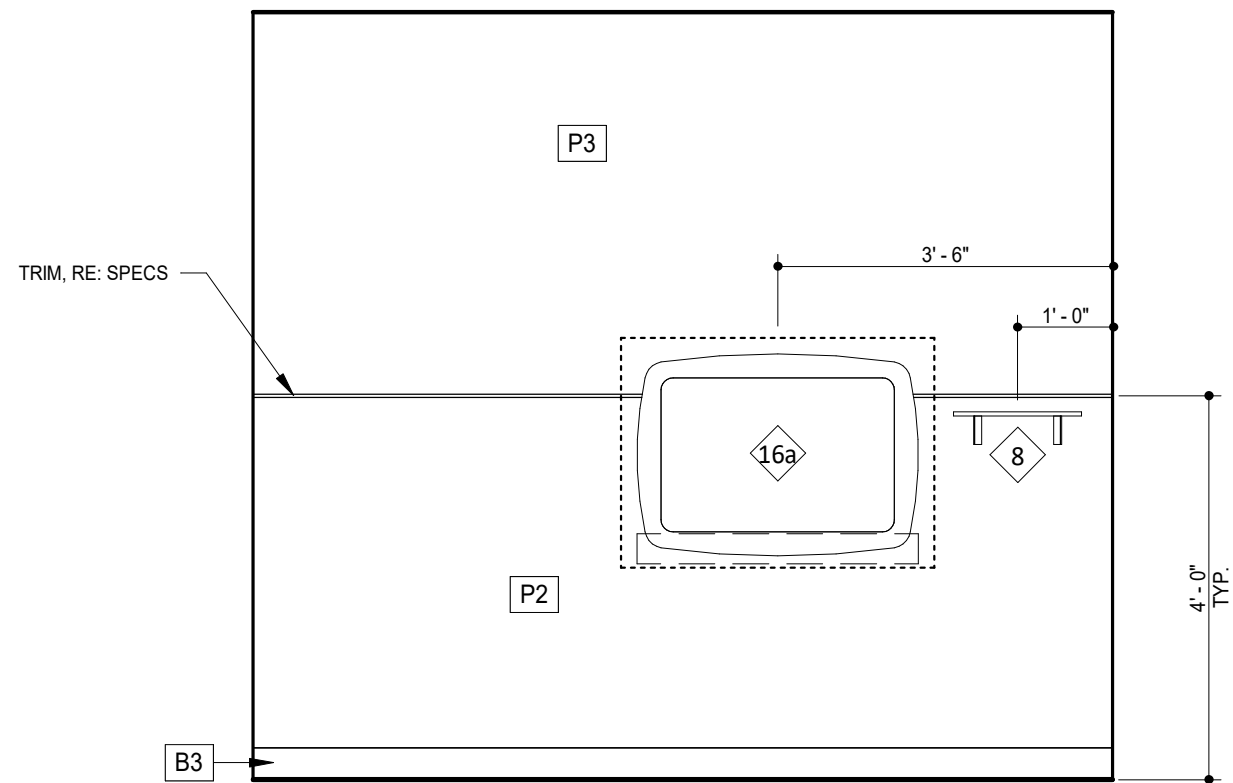
Issue Record:	
10/18/22	Permit Issue

Revisions:	

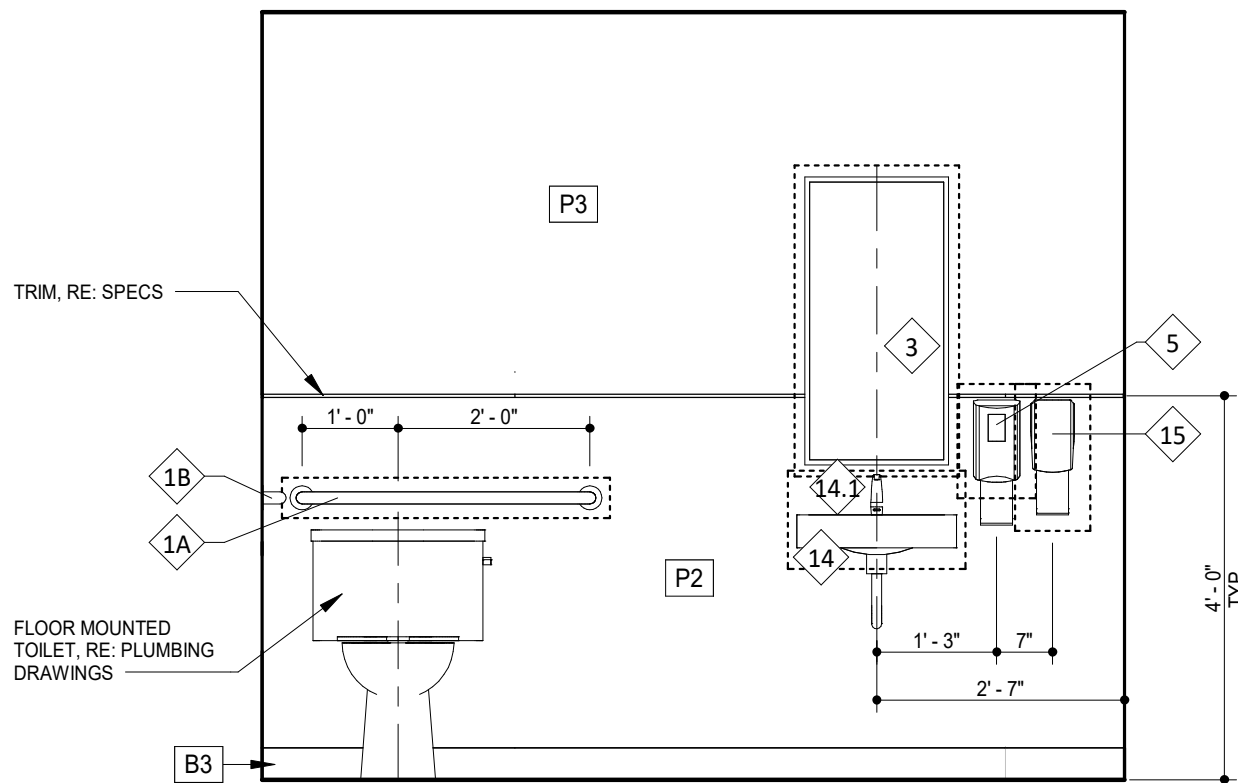
Project No.
01638

Toilet Room Details

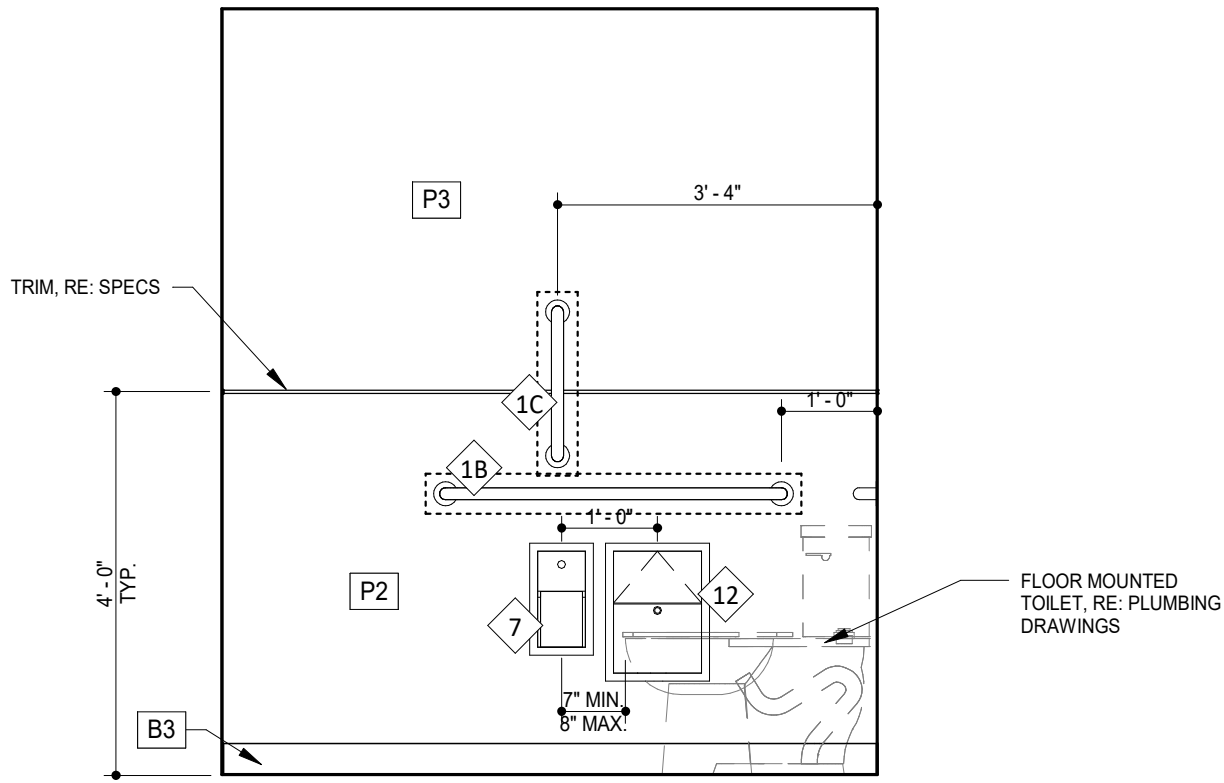
A710



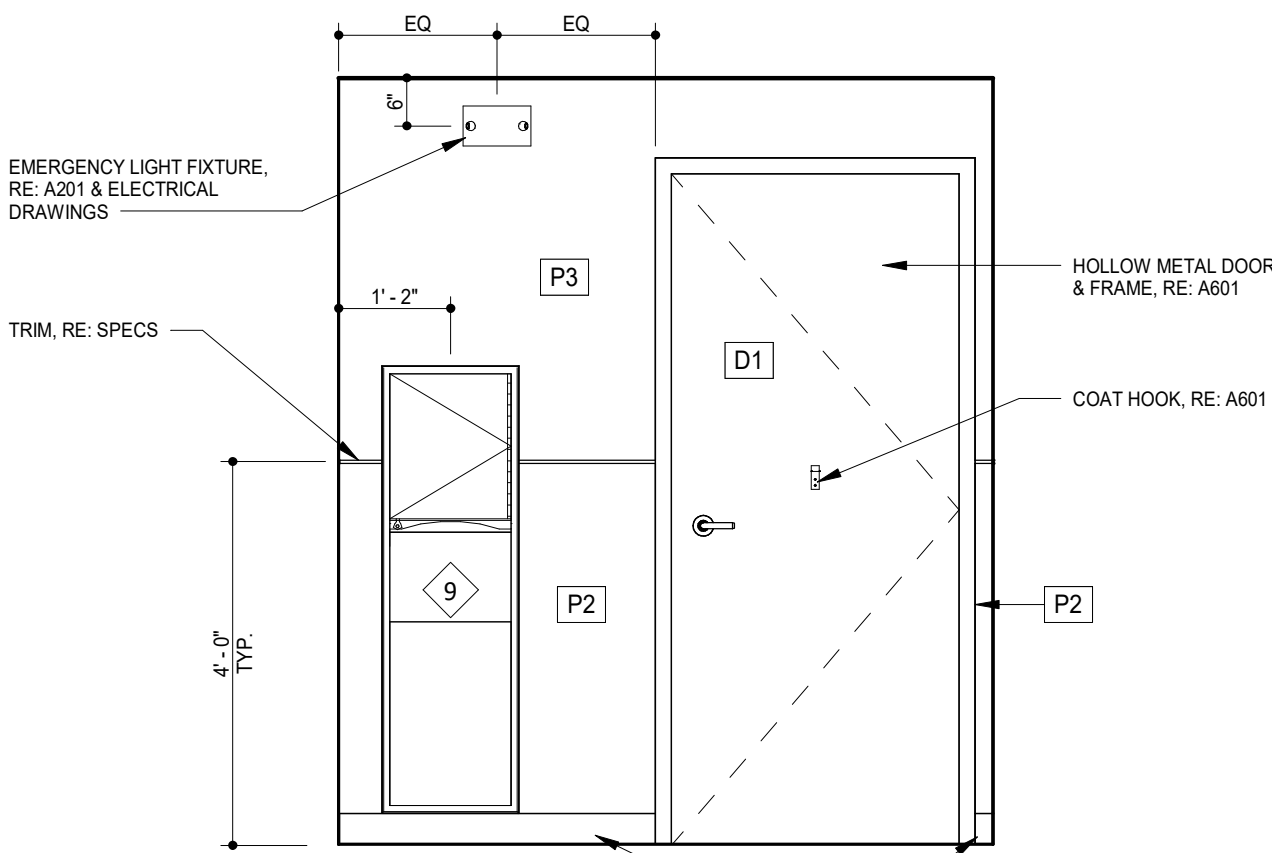
6 RESTROOM 104 ELEVATION (RESTROOM 103 OPP.)
1/2" = 1'-0"



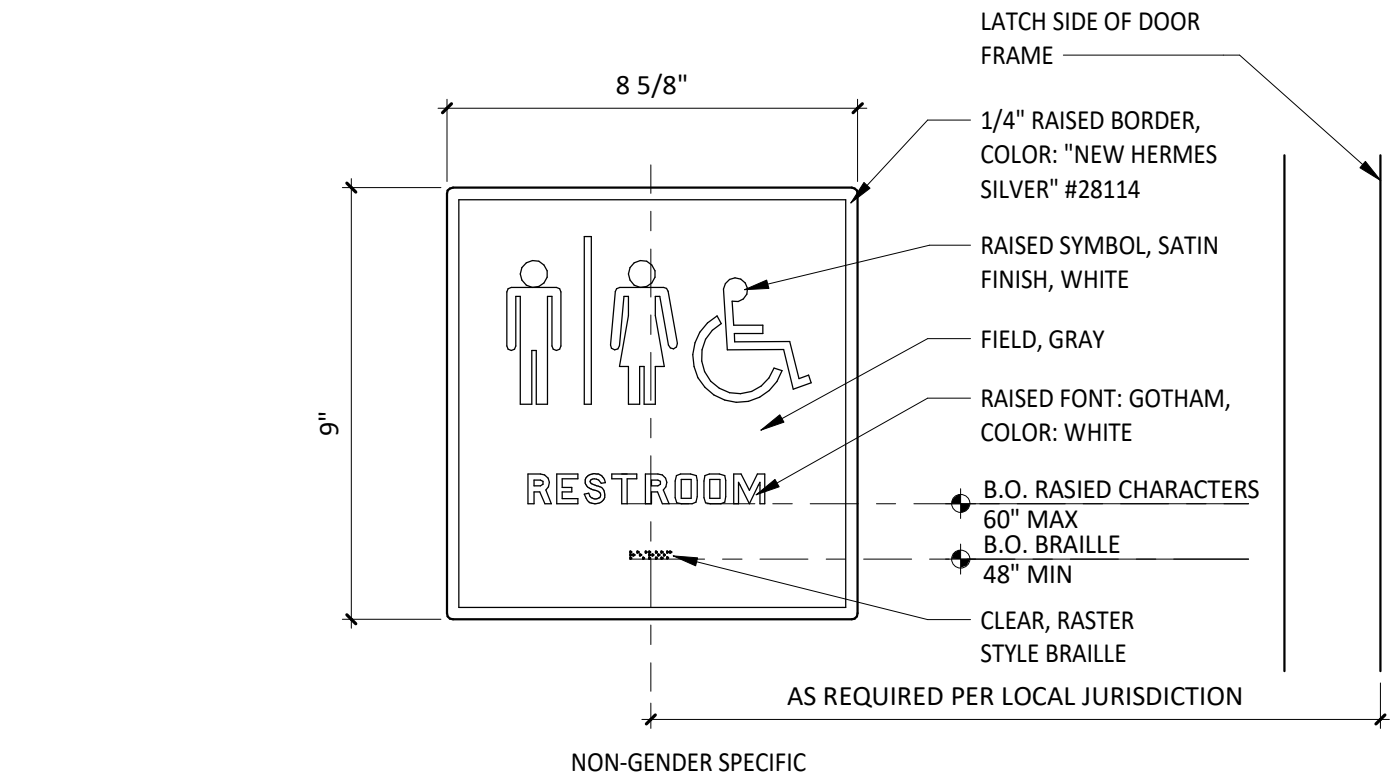
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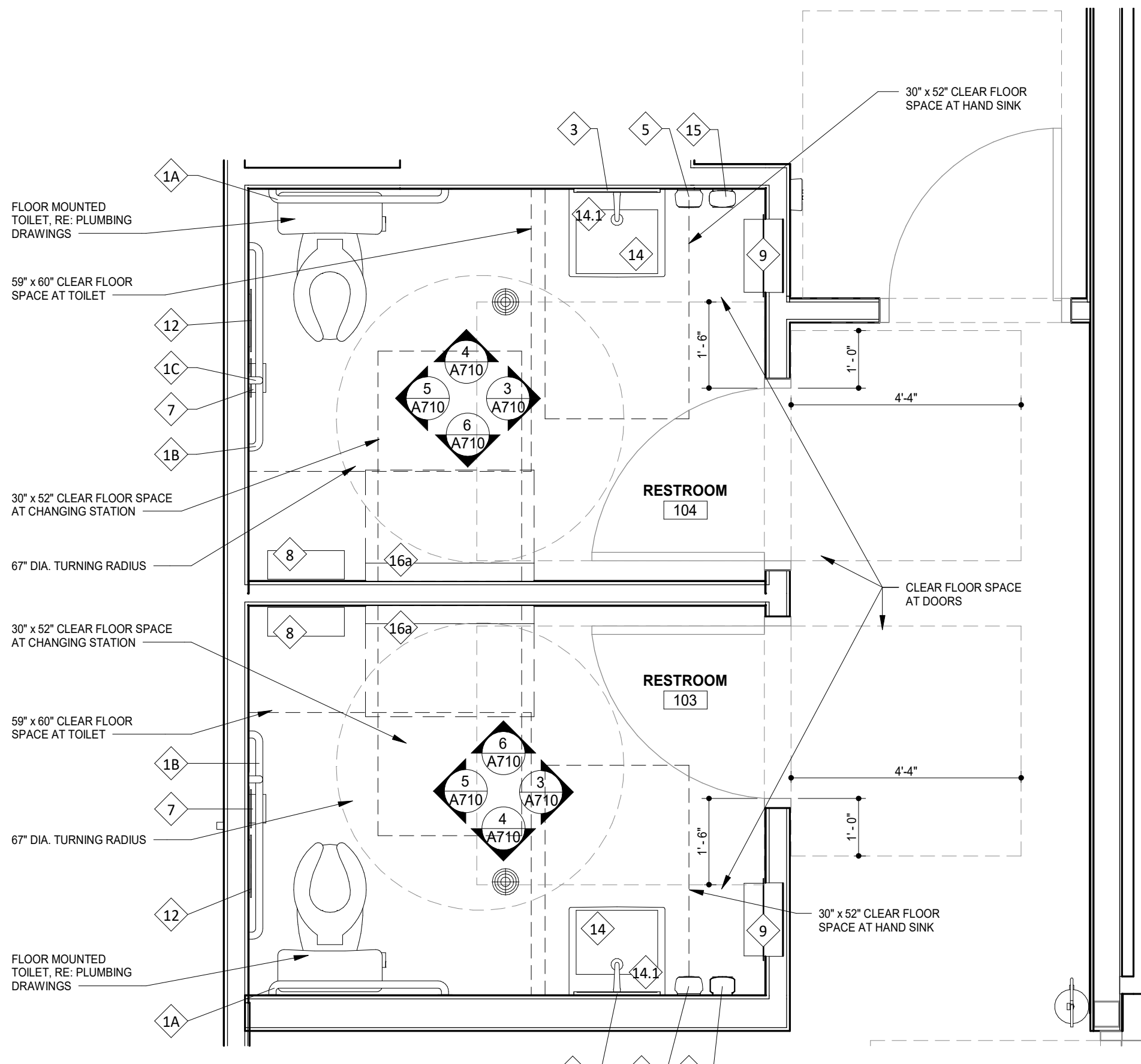
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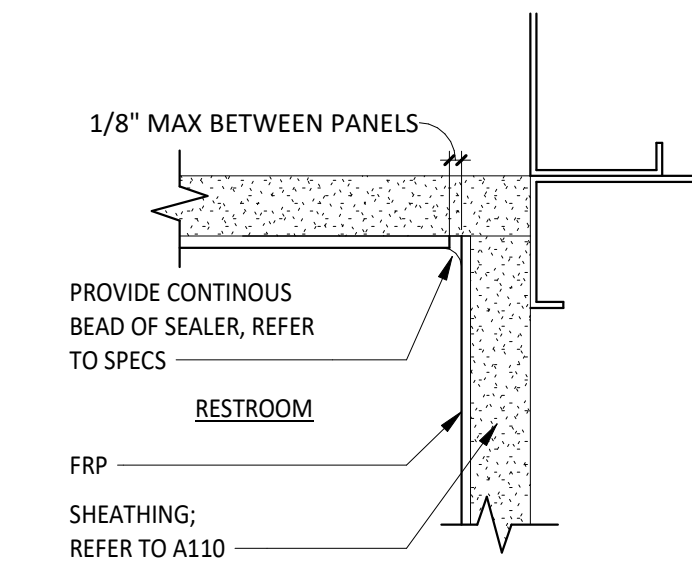
3 RESTROOM 104 ELEVATION (RESTROOM 103 OPP.)
1/2" = 1'-0"



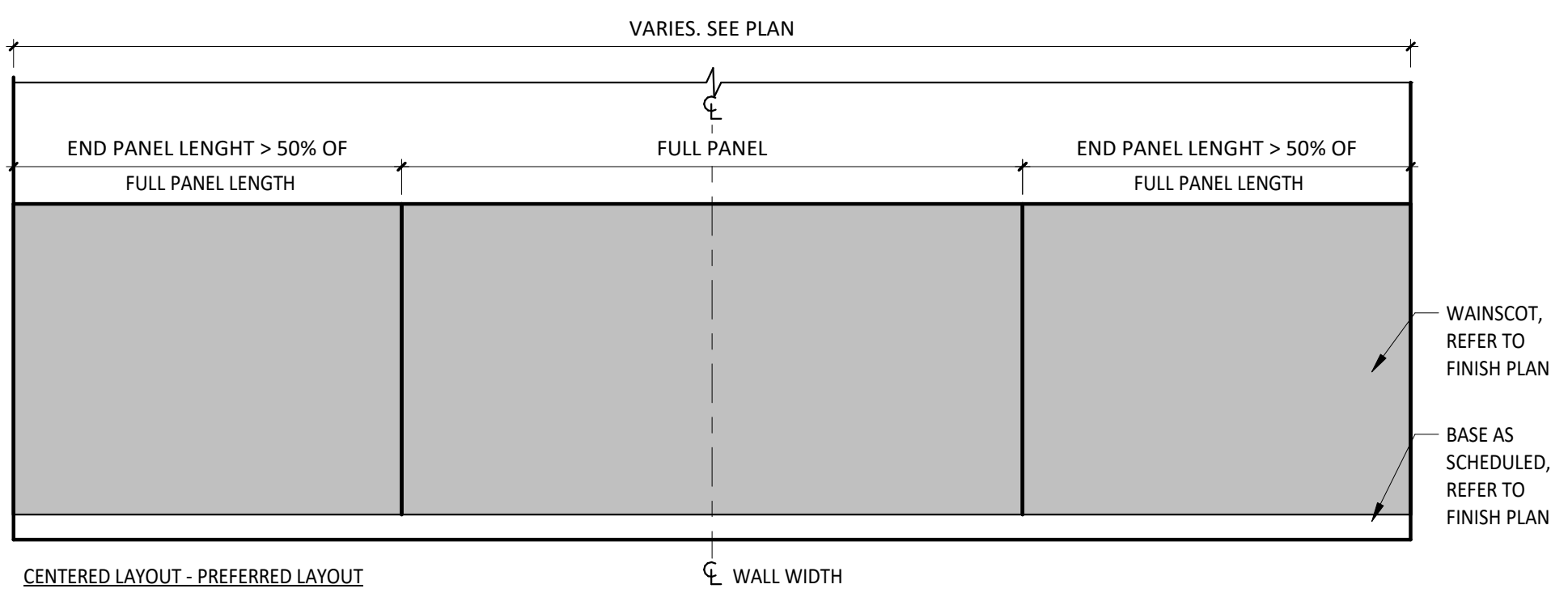
2 TYPICAL WASHROOM SIGNAGE
3/4" = 1'-0"



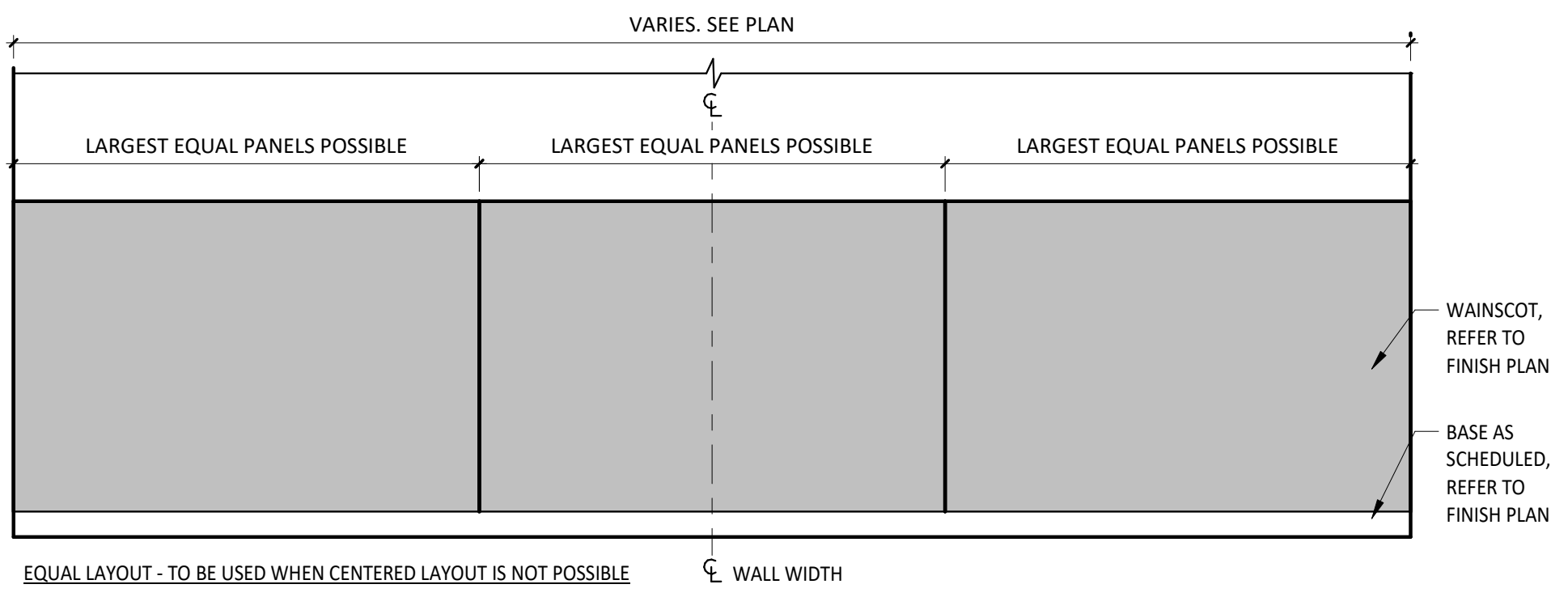
1 ENLARGED TOILET ROOM PLAN
1/2" = 1'-0"



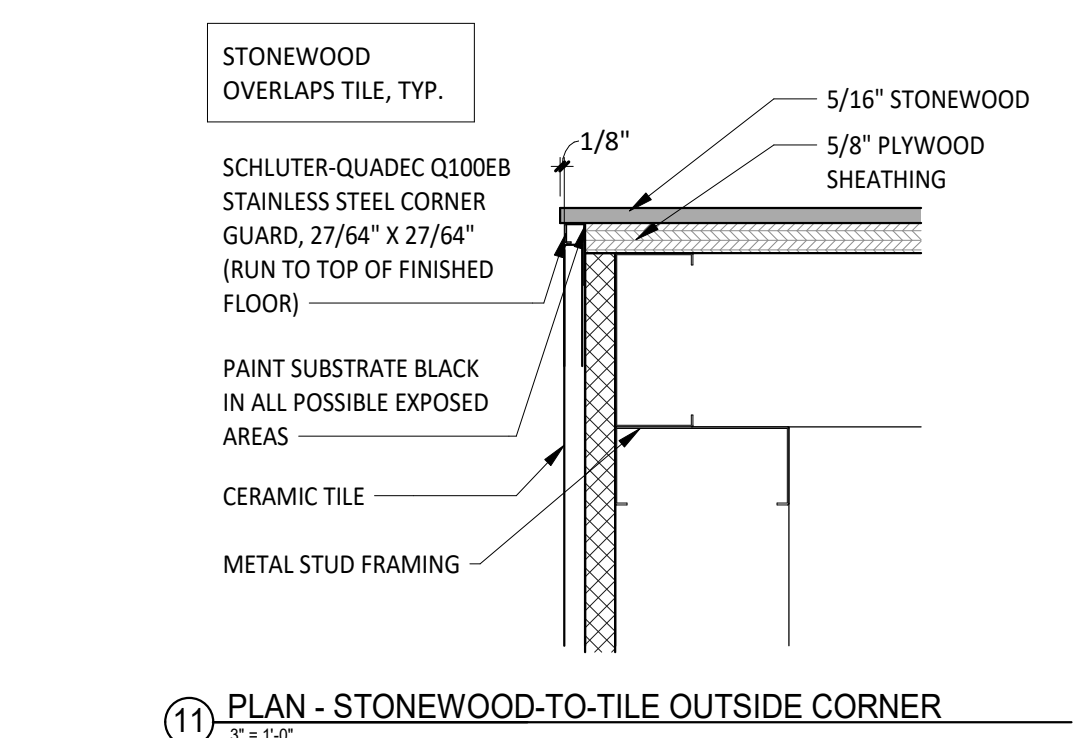
20 PLAN - RESTROOM FRP INSIDE CORNER
3\"/>



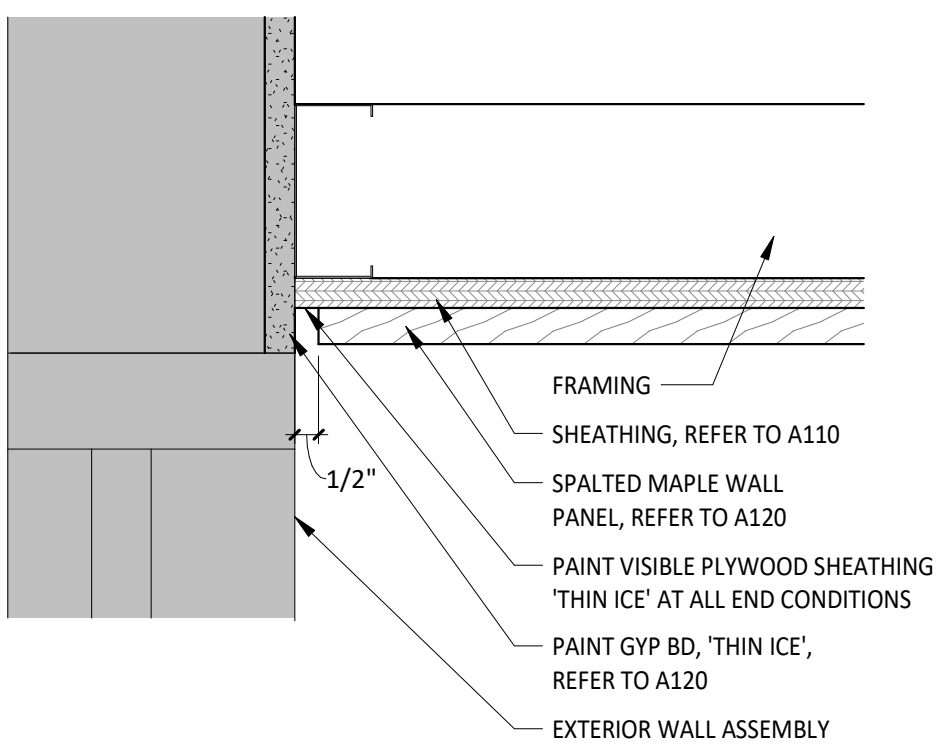
16 ELEVATION - WAINSCOT LAYOUT
12\"/>



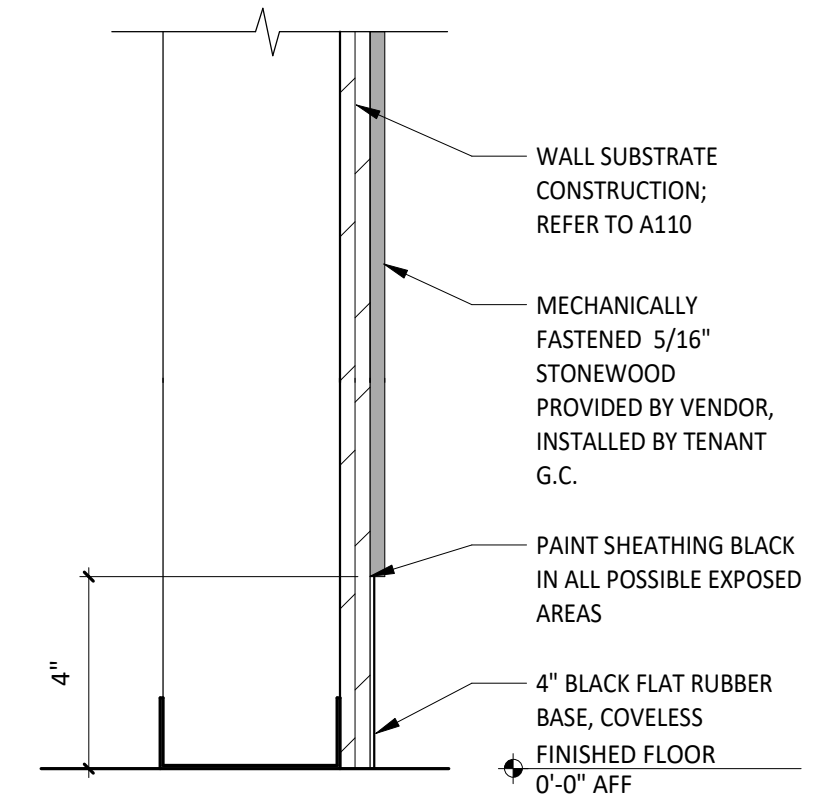
16 ELEVATION - WAINSCOT LAYOUT
12\"/>



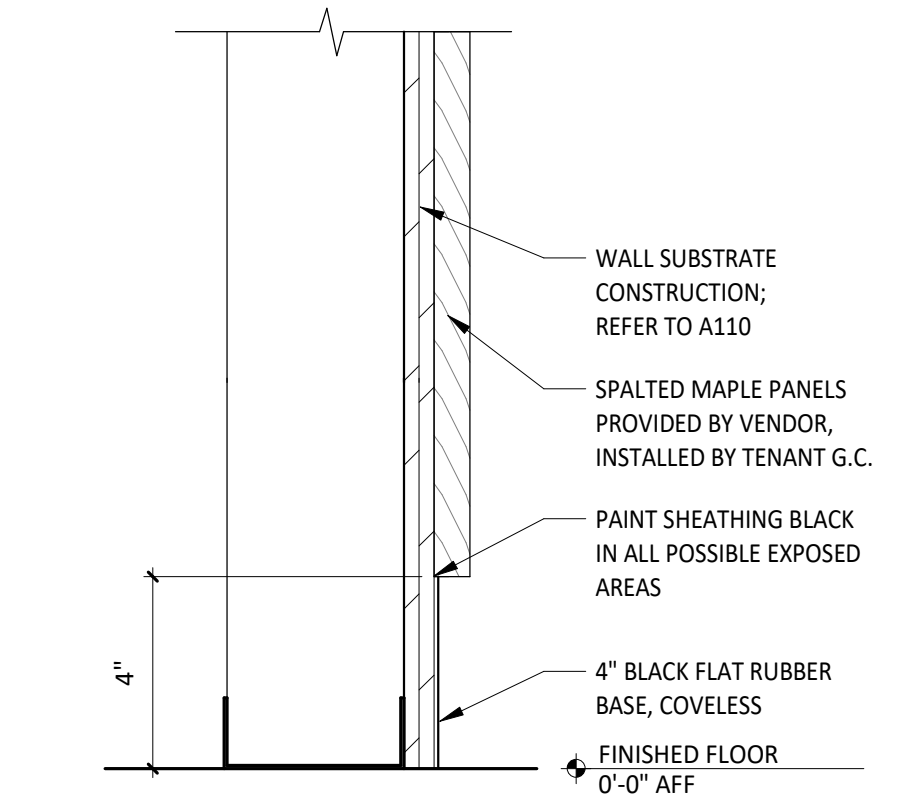
11 PLAN - STONEWOOD-TO-TILE OUTSIDE CORNER
3\"/>



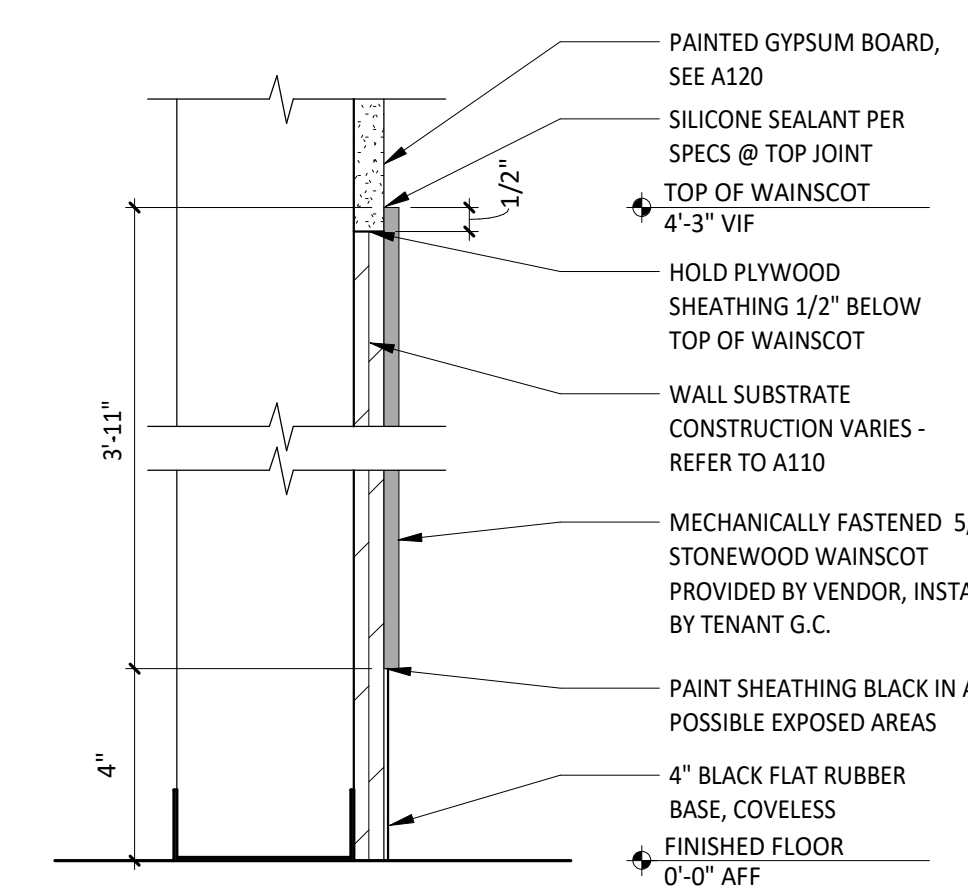
6 PLAN - SPALTED PLYWOOD END CONDITION
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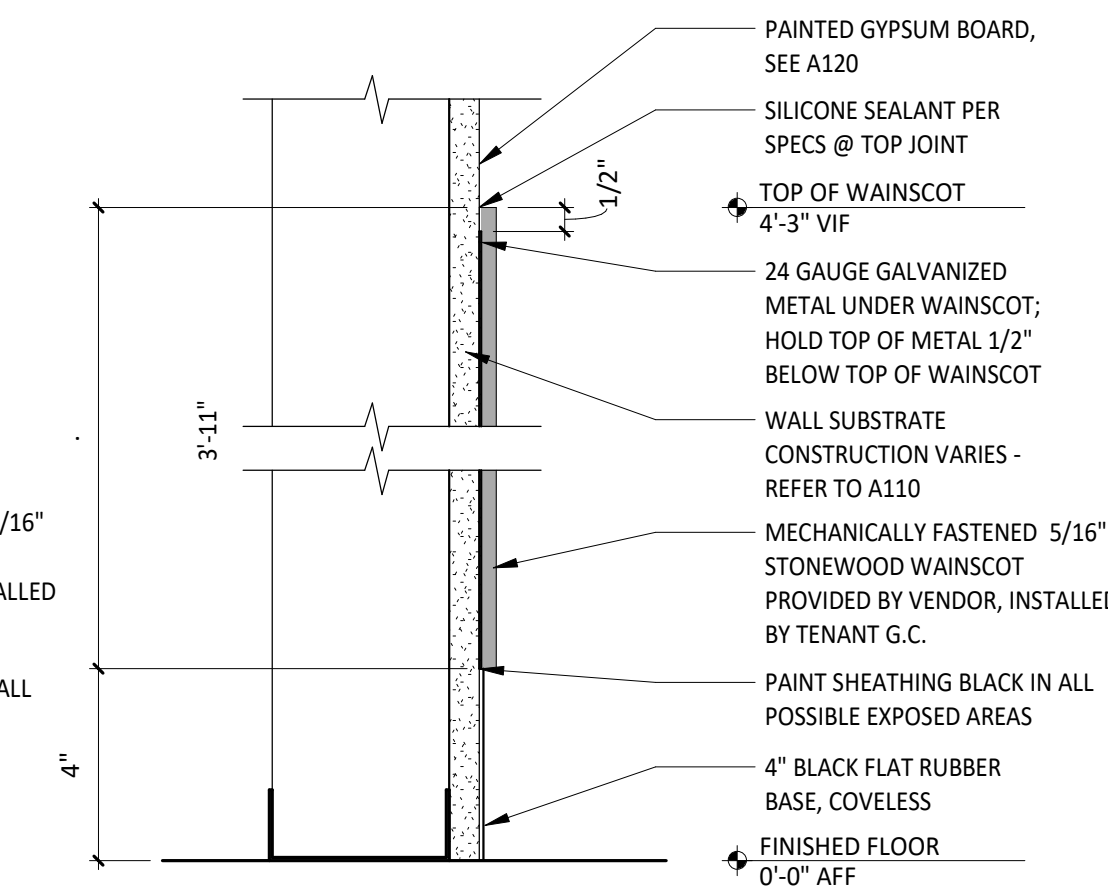
5 SECTION - STONEWOOD
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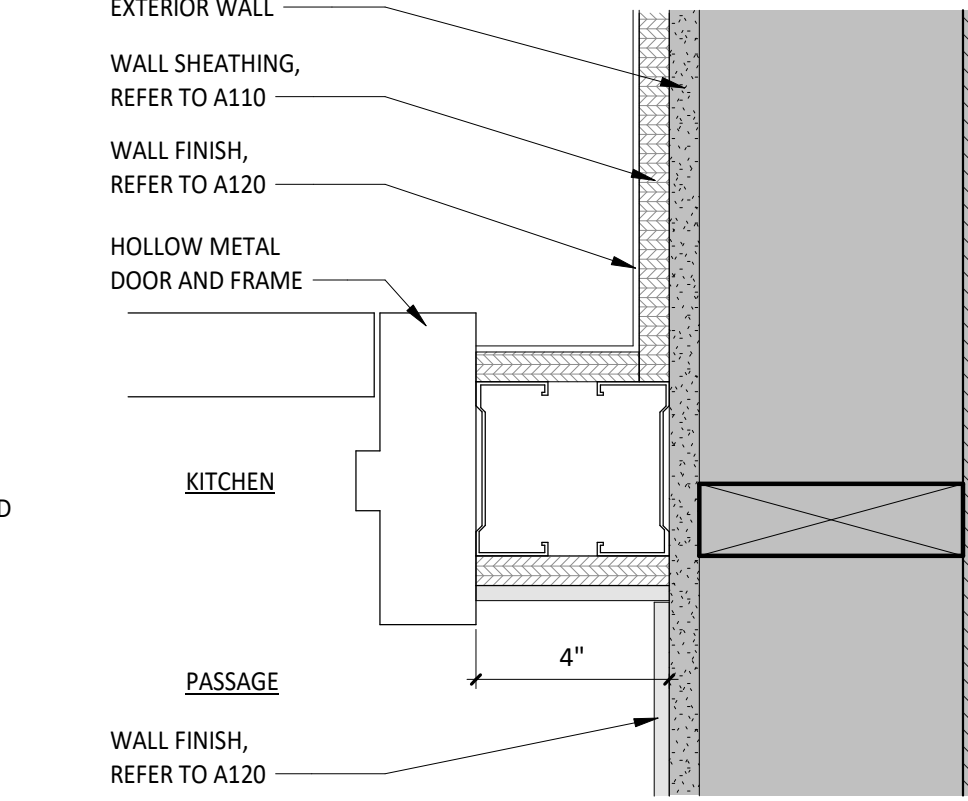
4 SECTION - SPALTED MAPLE
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3 SECTION - WAINSCOT - PLYWOOD BACKING (PREFERRED)
3\"/>



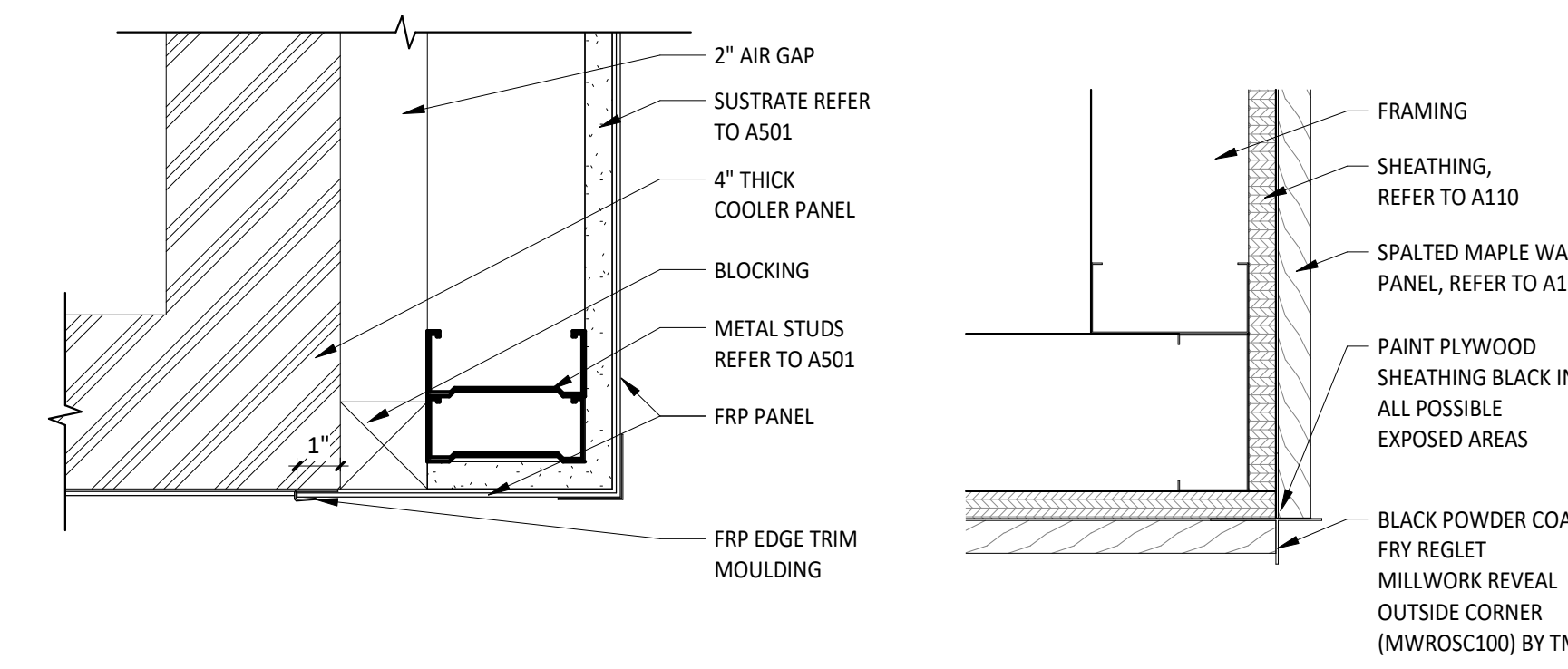
2 SECTION - WAINSCOT - GALV. BACKING (@ RATED WALLS ONLY)
3\"/>



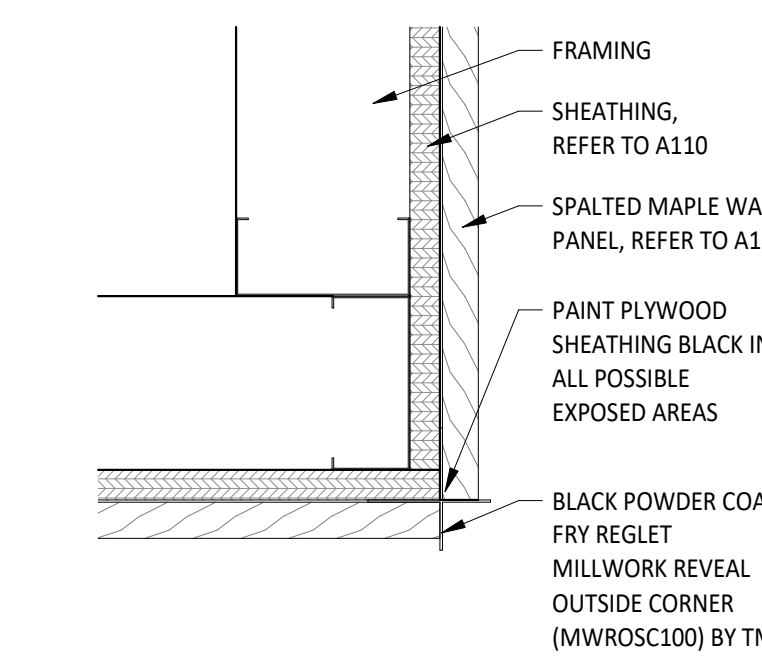
1 PLAN - DOOR JAMB
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19 ELEVATION - WAINSCOT PANEL DETAIL
1 1/2\"/>

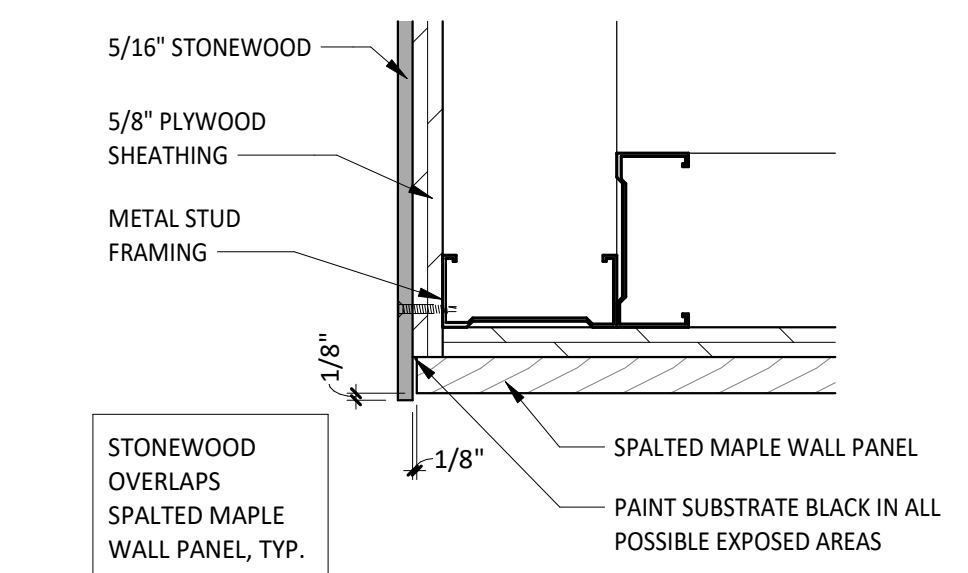
DETAIL 15 NOT USED



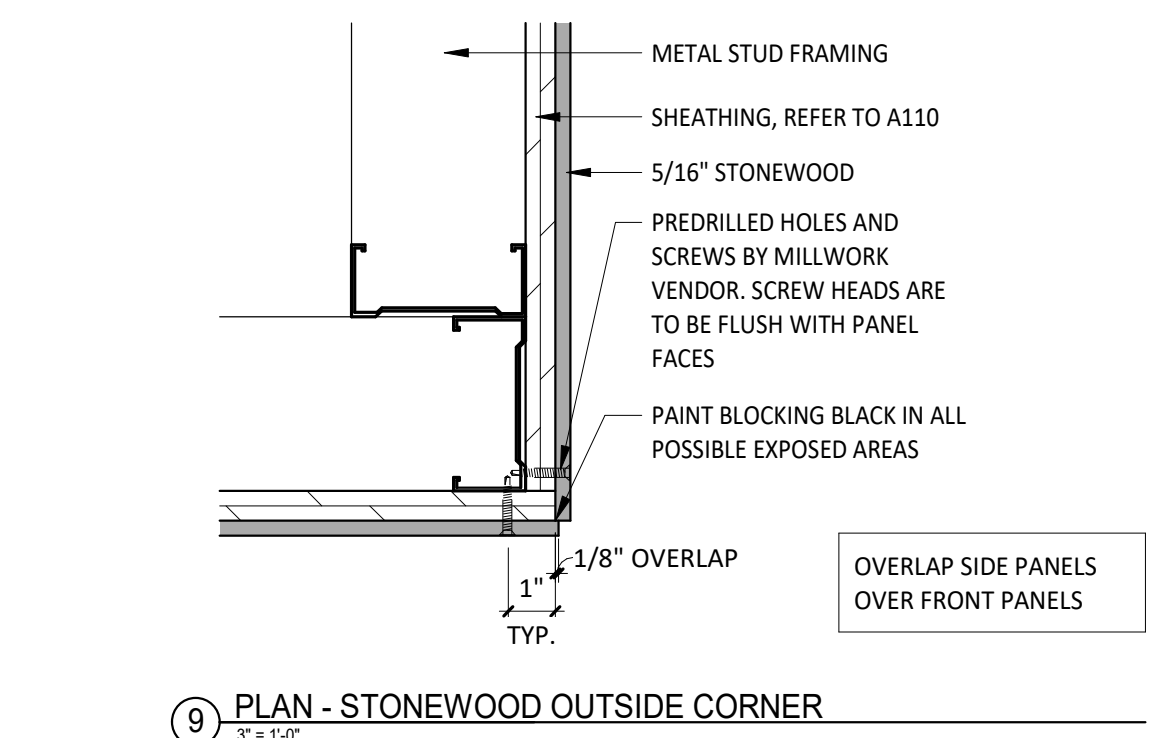
14 PLAN - FRP CLOSURE @ COOLER
3\"/>



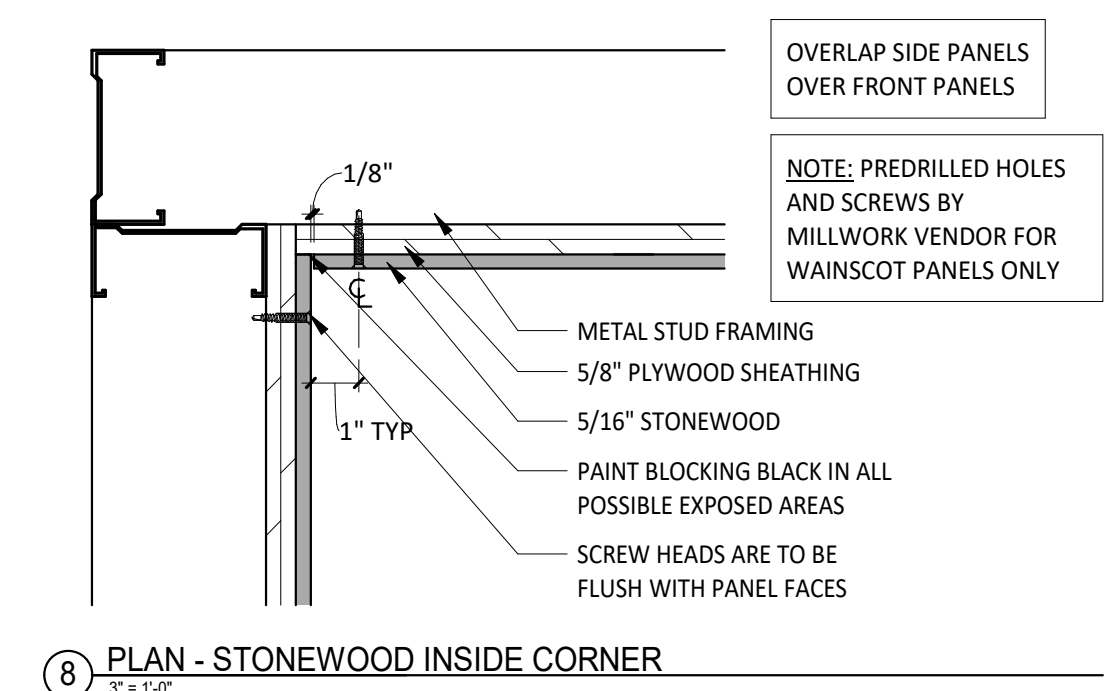
13 PLAN - SPALTED MAPLE-TO-SPALTED MAPLE CORNER
3\"/>



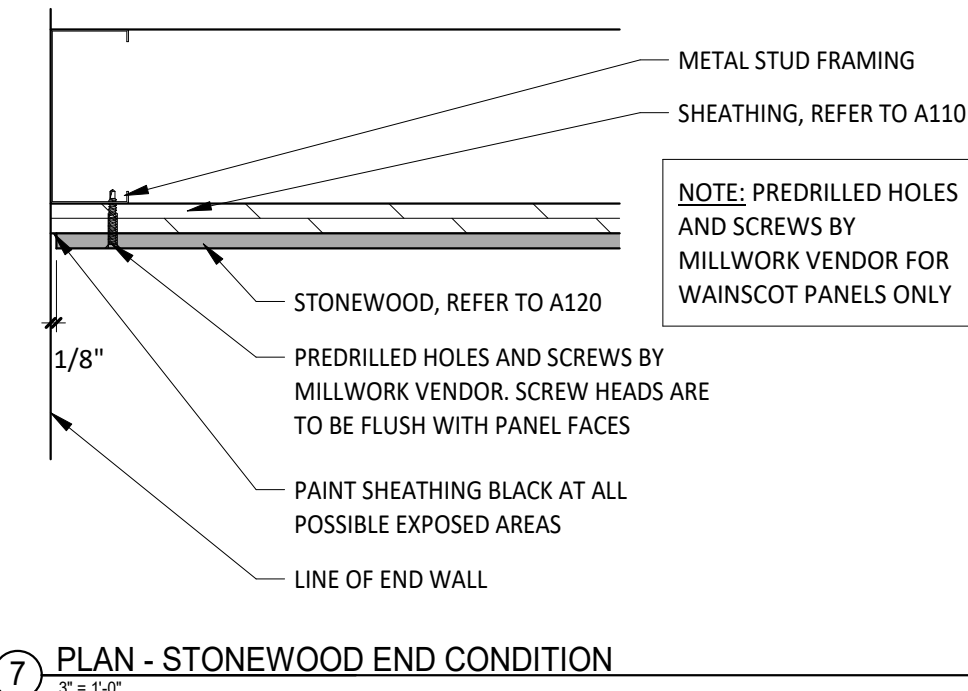
12 PLAN - SPALTED MAPLE-TO-STONEWOOD OUTSIDE CORNER
3\"/>



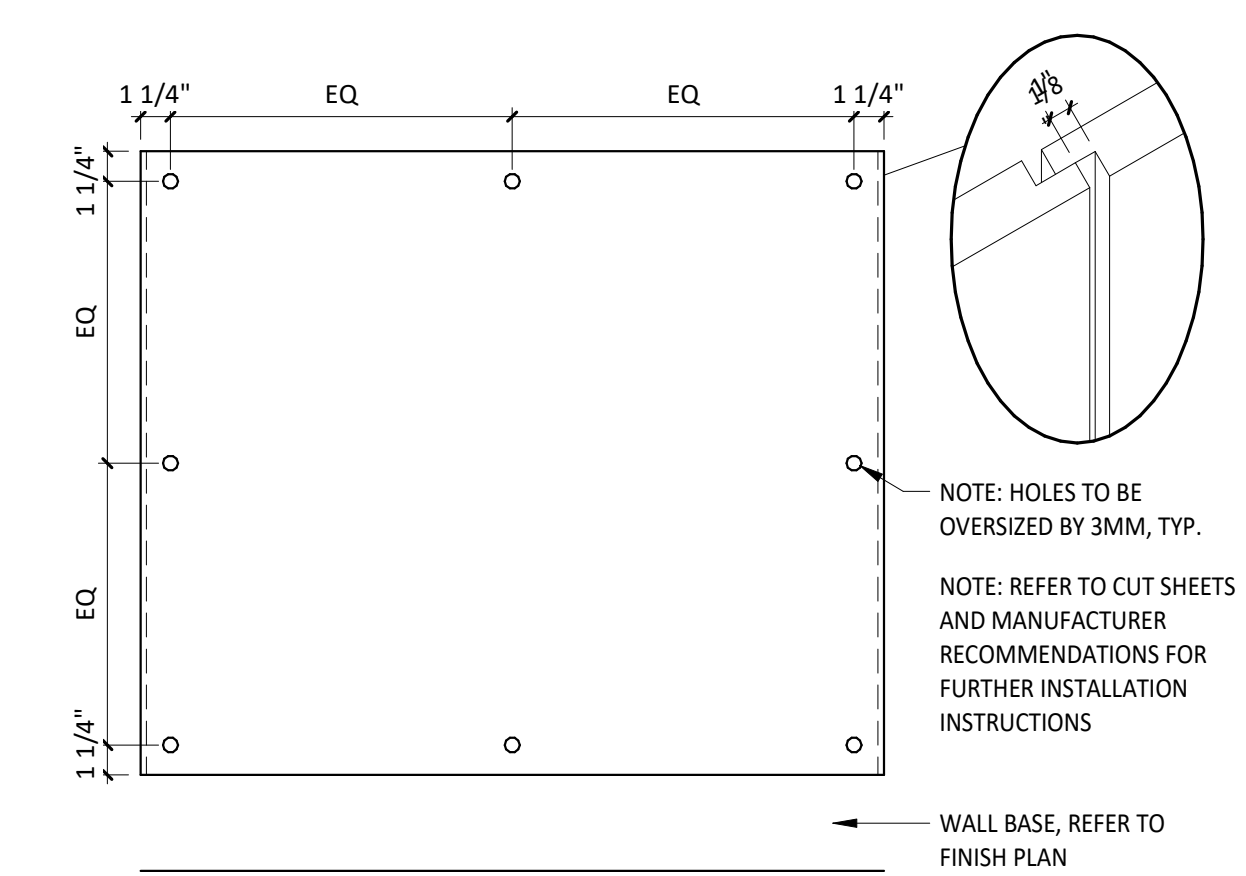
9 PLAN - STONEWOOD OUTSIDE CORNER
3\"/>



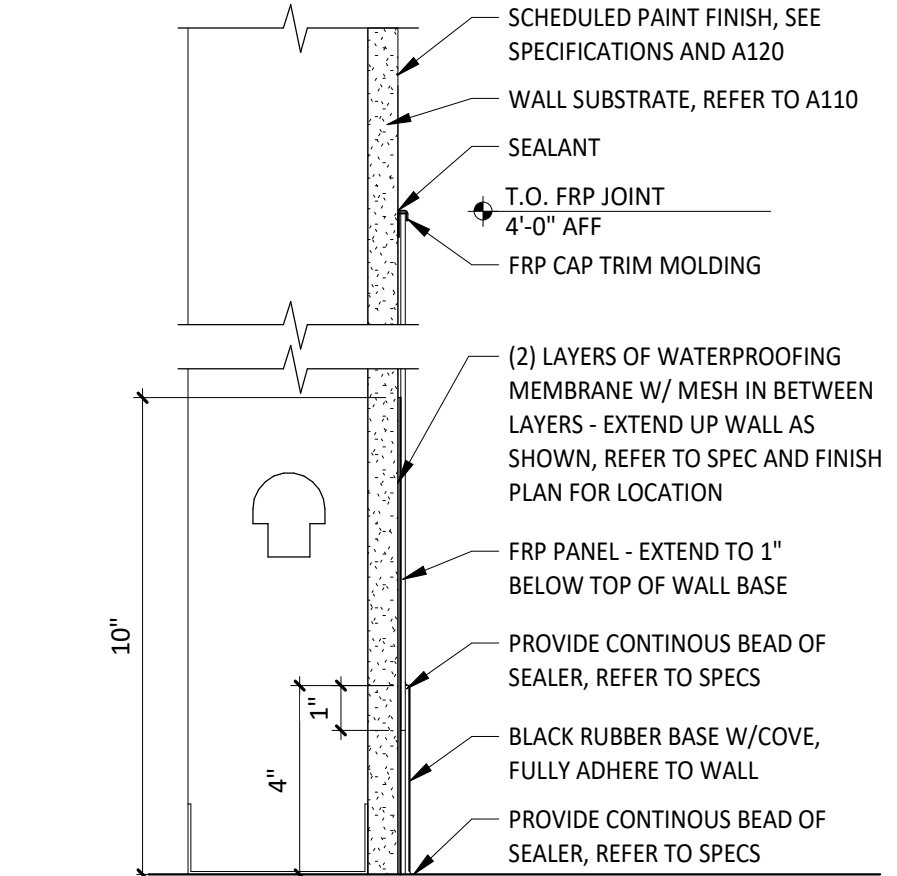
8 PLAN - STONEWOOD INSIDE CORNER
3\"/>



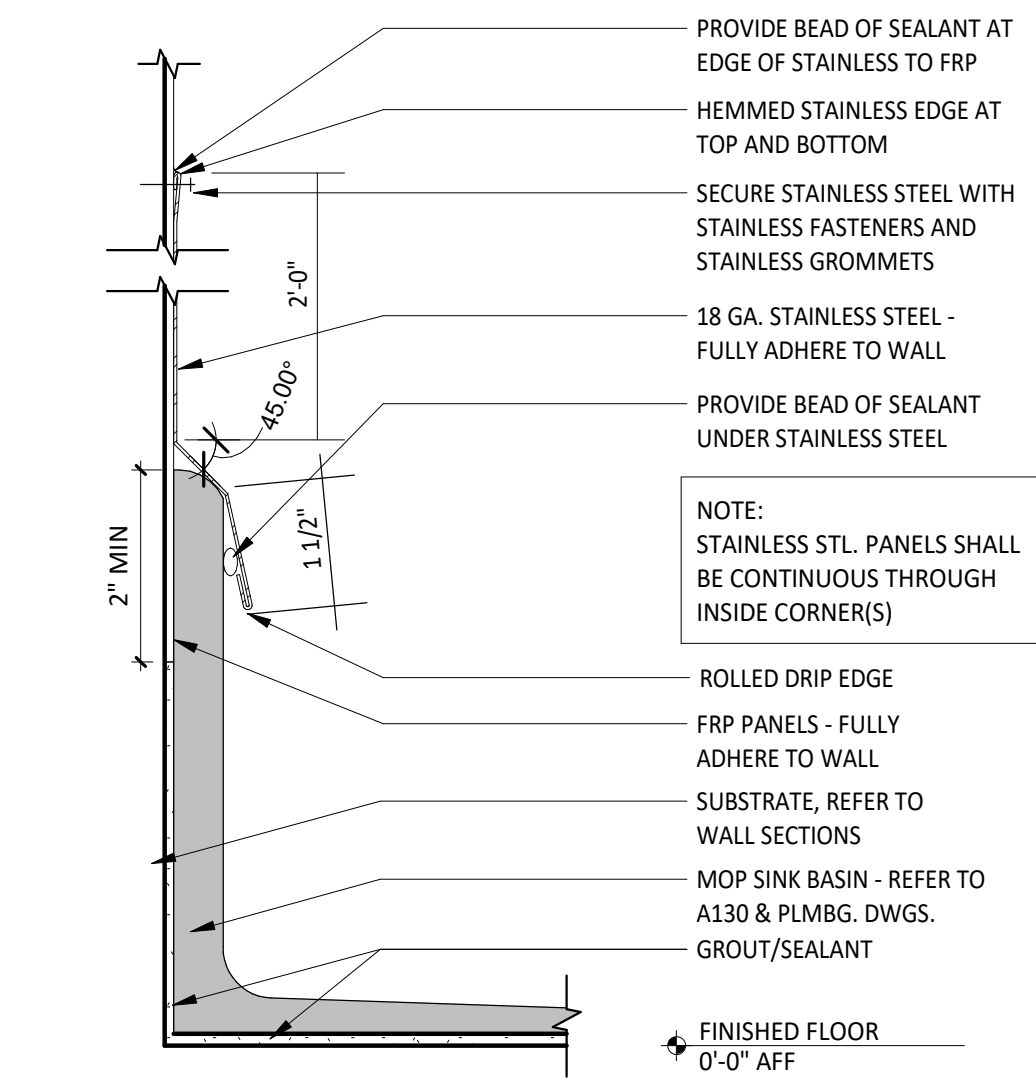
7 PLAN - STONEWOOD END CONDITION
3\"/>



19 ELEVATION - WAINSCOT PANEL DETAIL
1 1/2\"/>



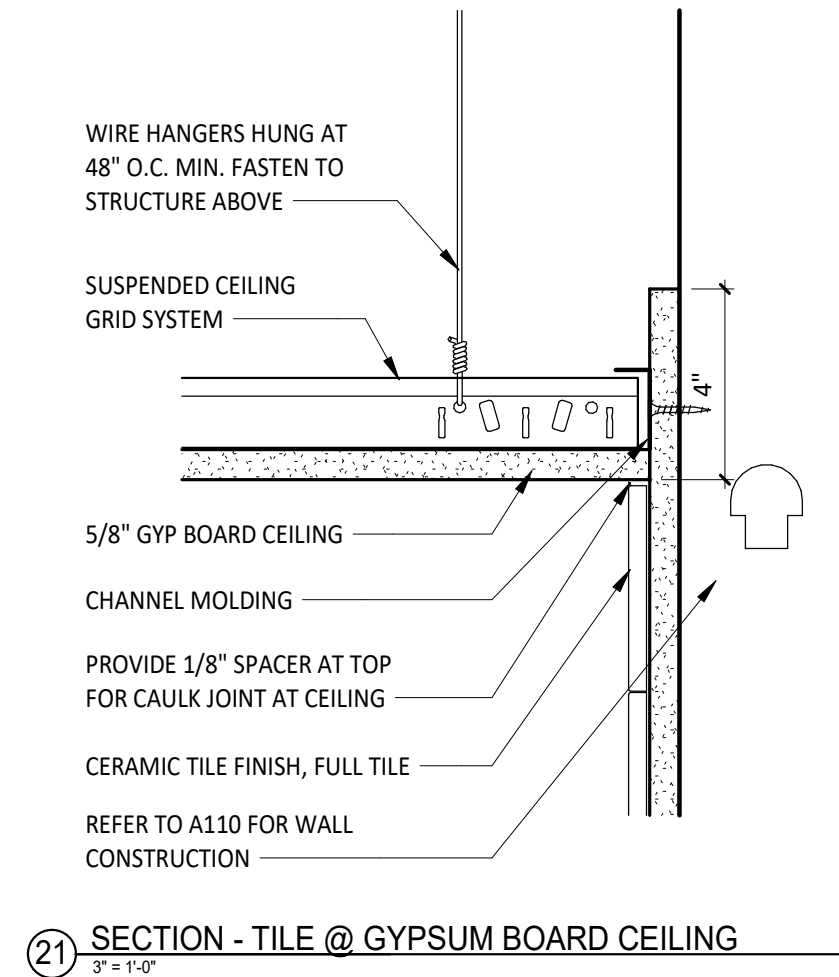
18 SECTION - RR FRP WAINSCOT W/ RUBBER BASE
3\"/>



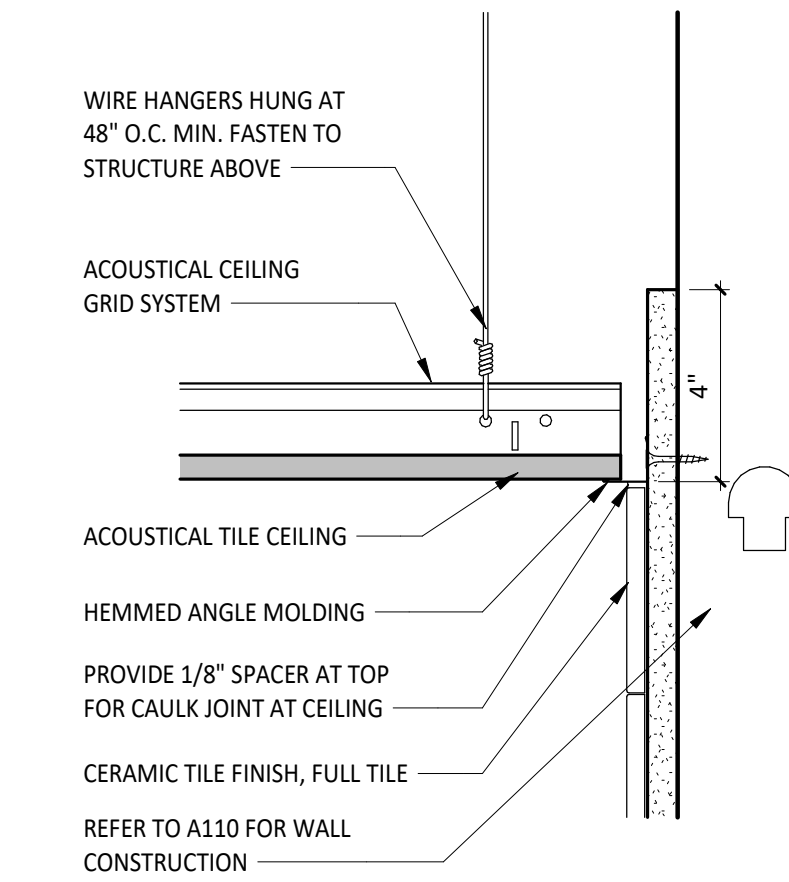
17 SECTION - MOP SINK
3\"/>

GENERAL NOTES

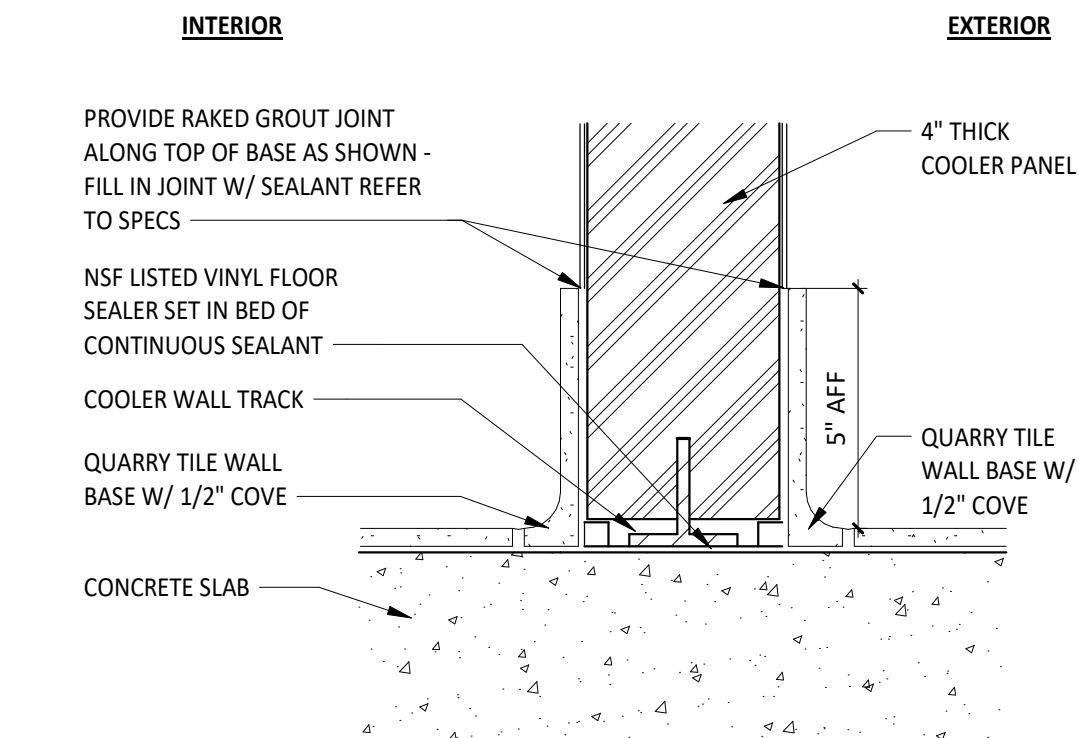
1. TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
2. IF REQUIRED TO CUT TILES, CONTRACTOR TO MEASURE OVERALL WALL WIDTH AND DETERMINE WHICH SOLUTION WILL ALLOW FOR THE GREATER THAN 50% TILE WIDTH AT WALL TERMINATIONS.
3. UNLESS OTHERWISE NOTED, ALL WALL TILES SHOULD BE CENTERED ON THE WIDTH OF THE WALL PER DETAIL 14 OR 15 THIS SHEET.
4. THERE SHOULD NEVER BE ANY CUT TILES VERTICALLY BETWEEN THE BASE AND THE CEILING. REFER TO A120 AND A201.



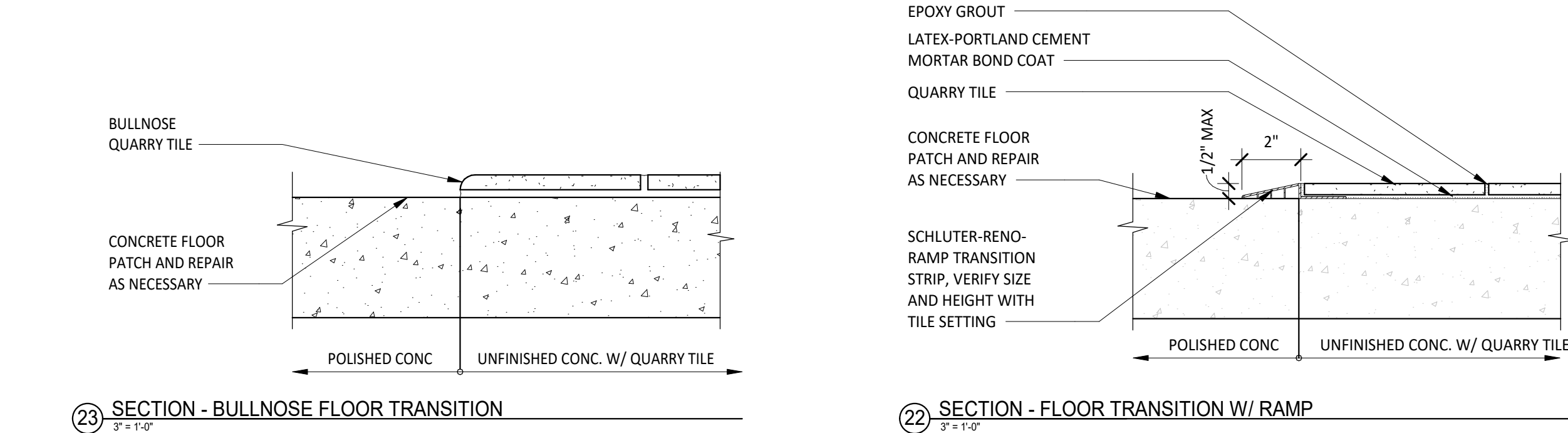
21 SECTION - TILE @ GYPSUM BOARD CEILING
3" = 1'-0"



20 SECTION - TILE @ LAY-IN CEILING
3" = 1'-0"

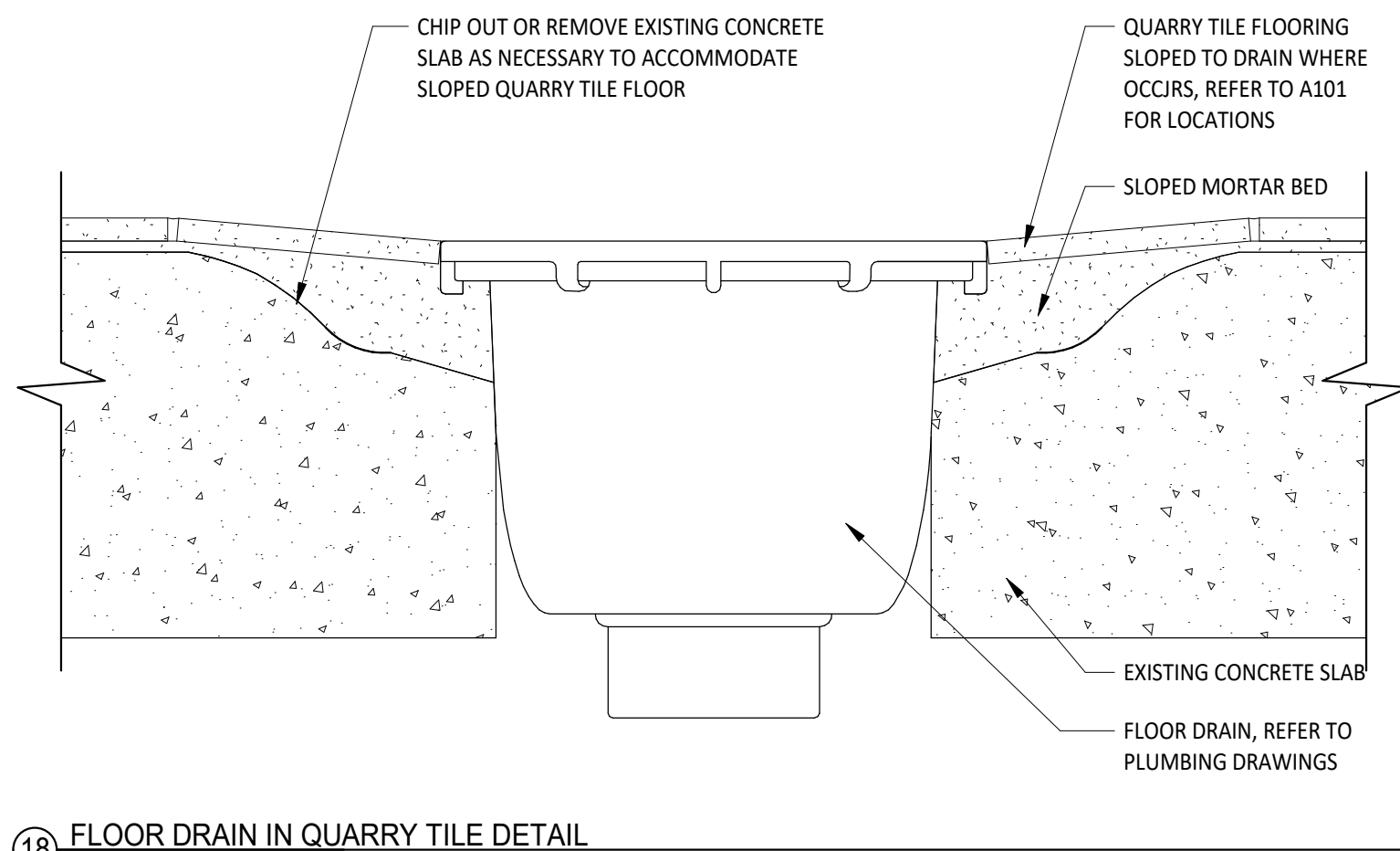


19 SECTION - QUARRY TILE BASE @ COOLER WALL
3" = 1'-0"

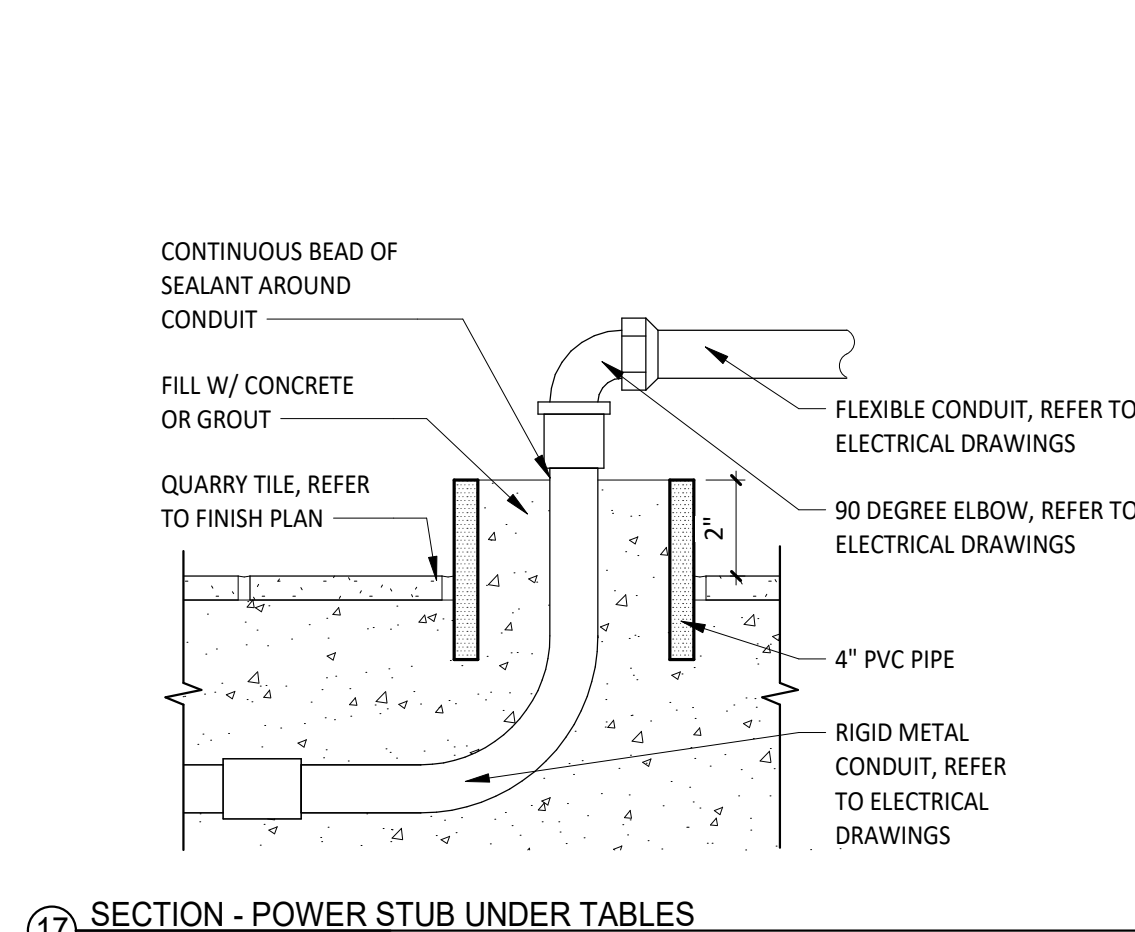


23 SECTION - BULLNOSE FLOOR TRANSITION
3" = 1'-0"

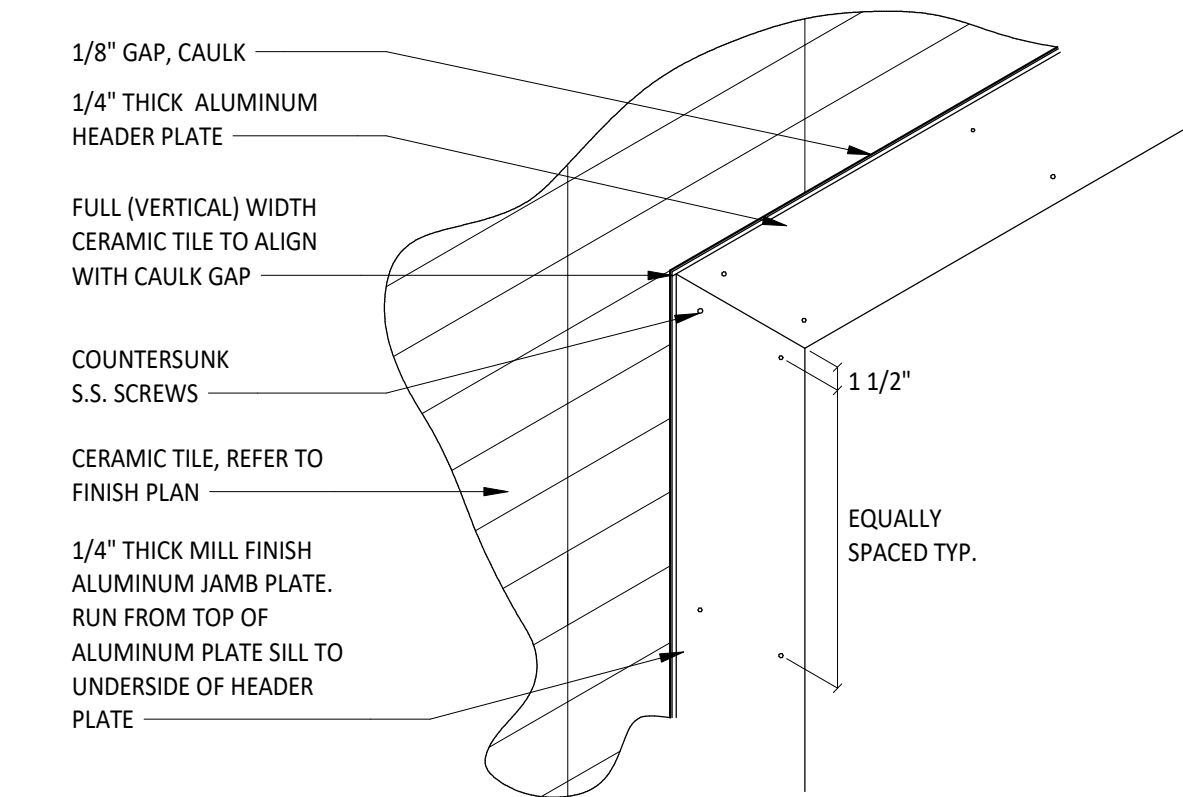
22 SECTION - FLOOR TRANSITION W/ RAMP
3" = 1'-0"



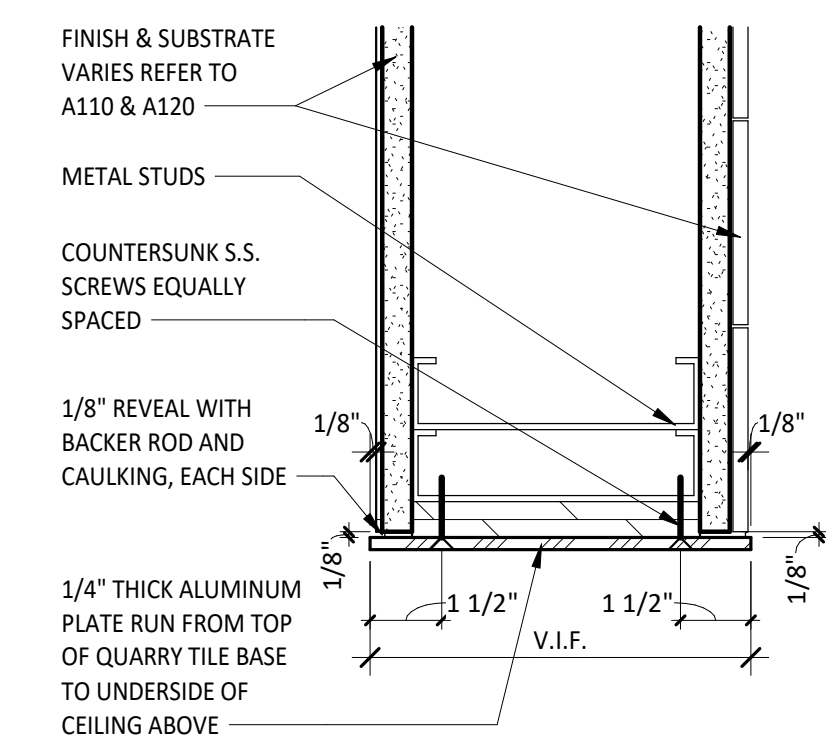
18 FLOOR DRAIN IN QUARRY TILE DETAIL
3" = 1'-0"



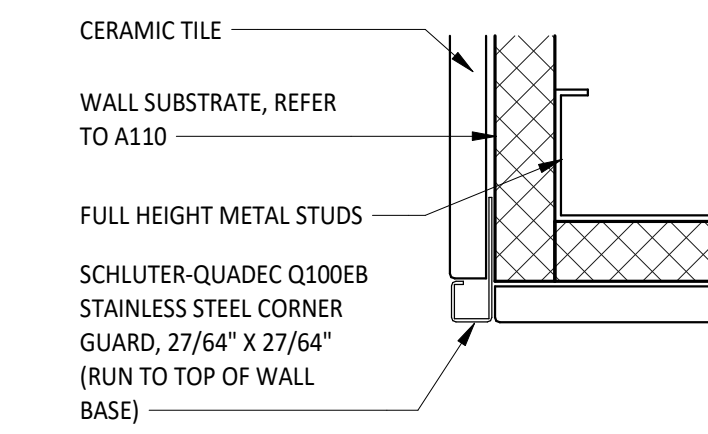
17 SECTION - POWER STUB UNDER TABLES
3" = 1'-0"



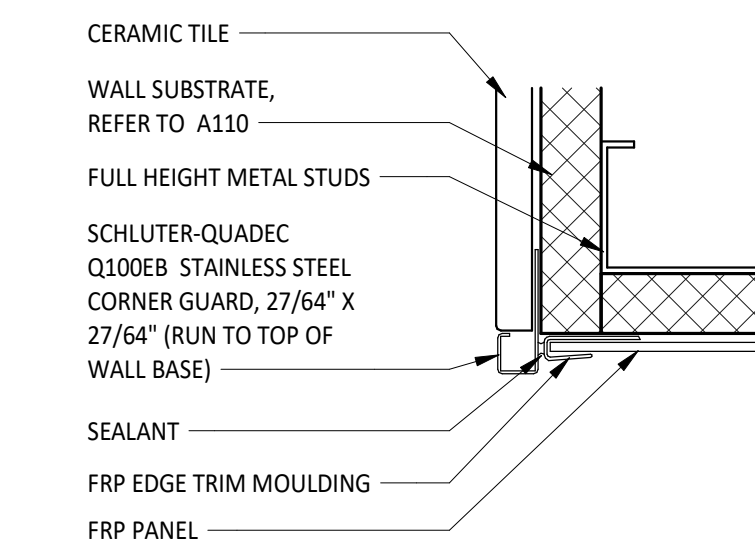
13 TILE DETAIL @ ALUMINUM PLATE JAMB/HEADER
1" = 1'-0"



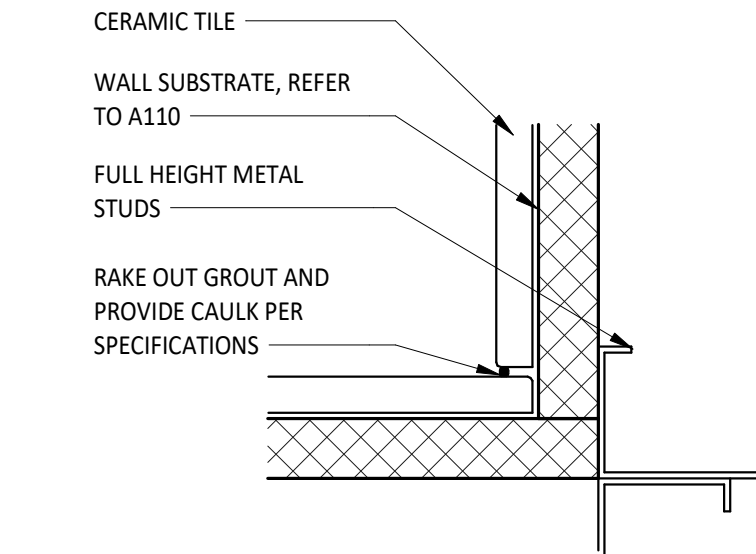
12 PLAN - ALUMINUM PLATE @ JAMB/HEAD/SILL
3" = 1'-0"



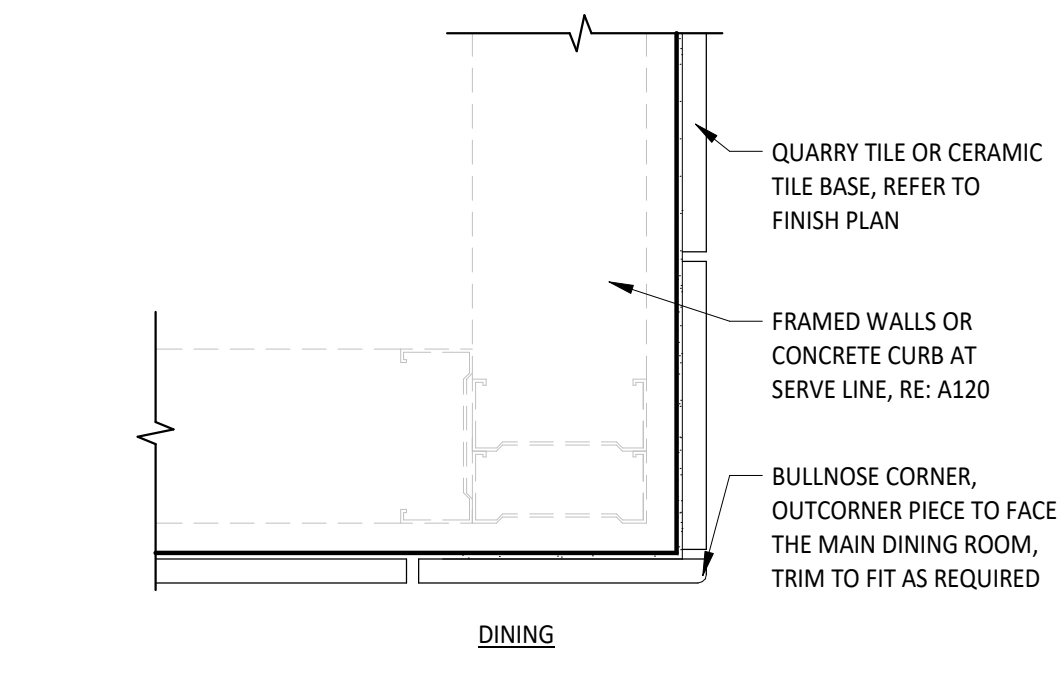
11 PLAN - TILE-TO-TILE OUTSIDE CORNER
6" = 1'-0"



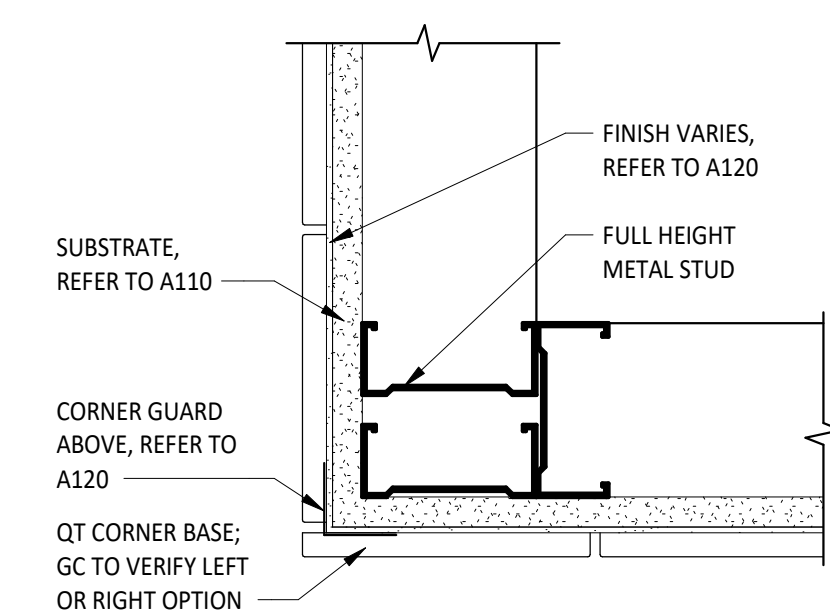
10 PLAN - TILE-TO-FRP OUTSIDE CORNER
6" = 1'-0"



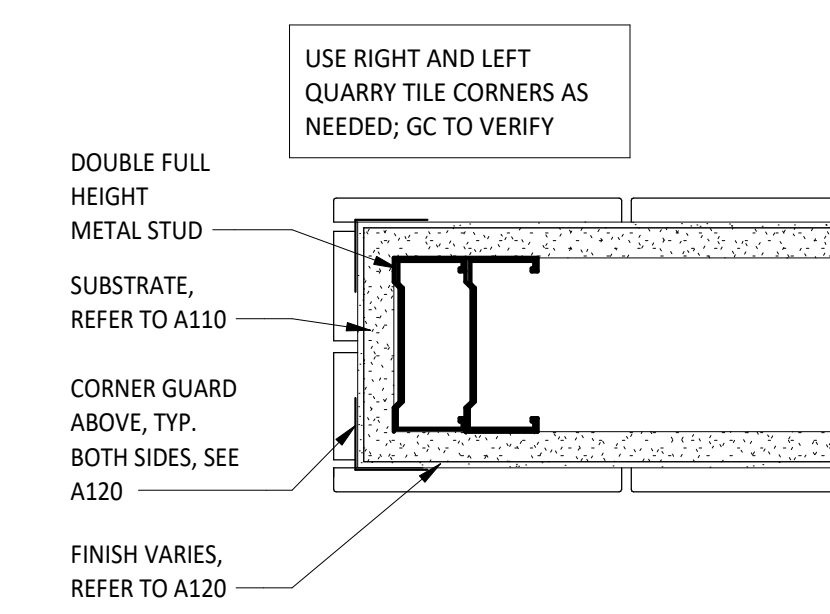
9 PLAN - TILE-TO-TILE INSIDE CORNER
6" = 1'-0"



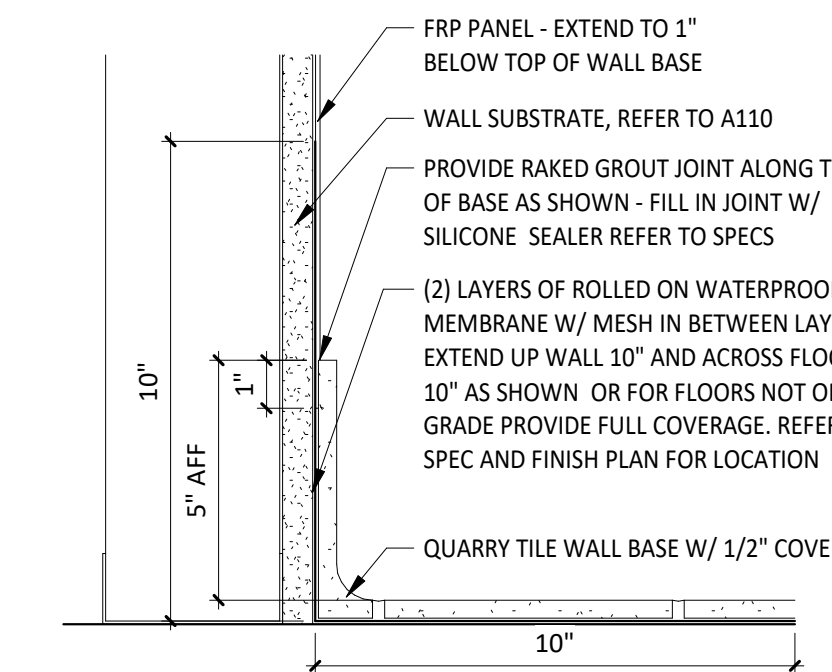
8 PLAN - TILE BASE @ OUTSIDE CORNER (DINING)
3" = 1'-0"



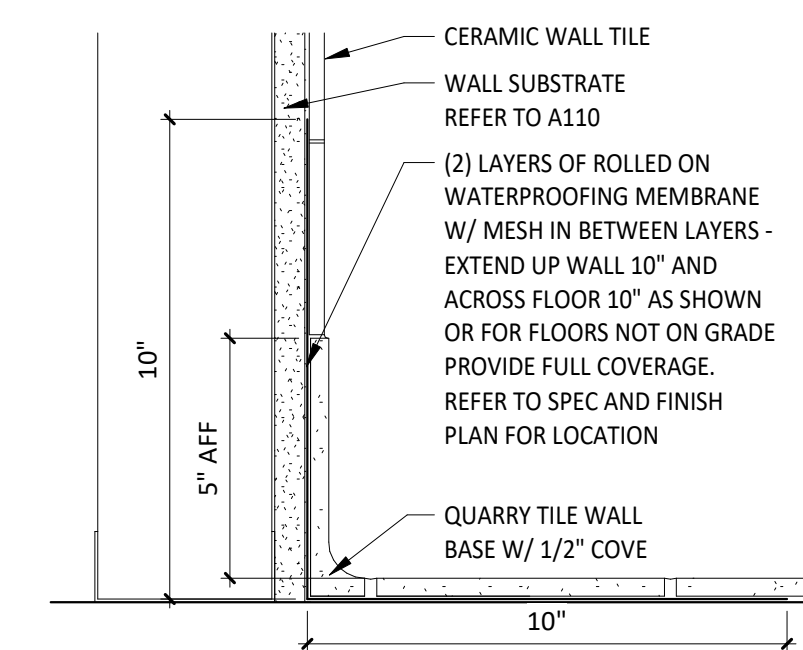
7 PLAN - QT BASE @ OUTSIDE CORNER (KITCHEN)
3" = 1'-0"



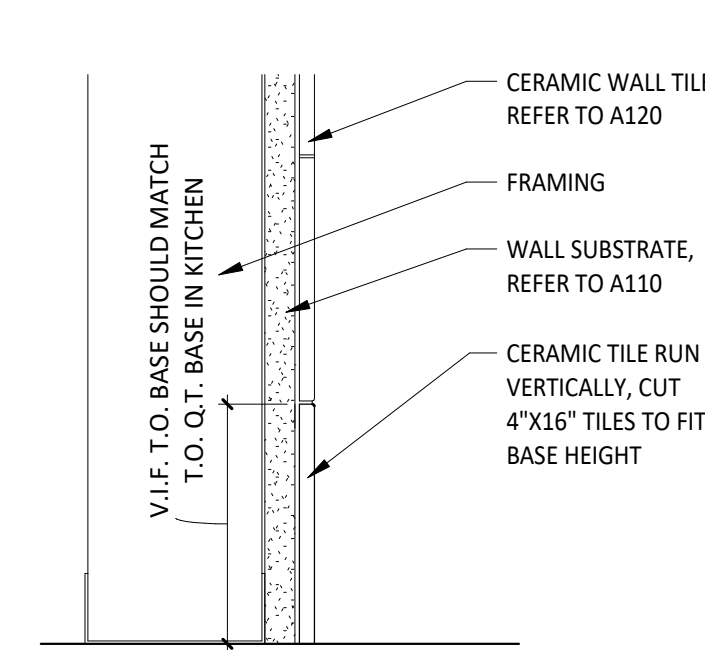
6 PLAN - QUARRY TILE BASE @ ENDCAP
3" = 1'-0"



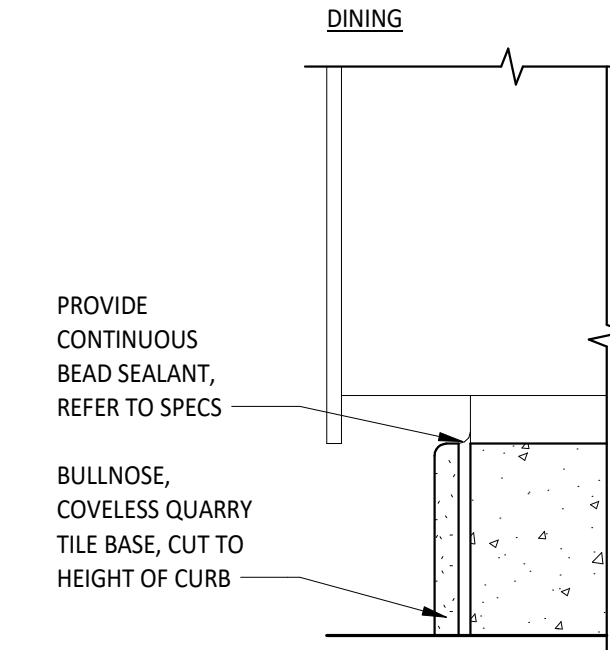
5 SECTION - QUARRY TILE BASE @ FRP
3" = 1'-0"



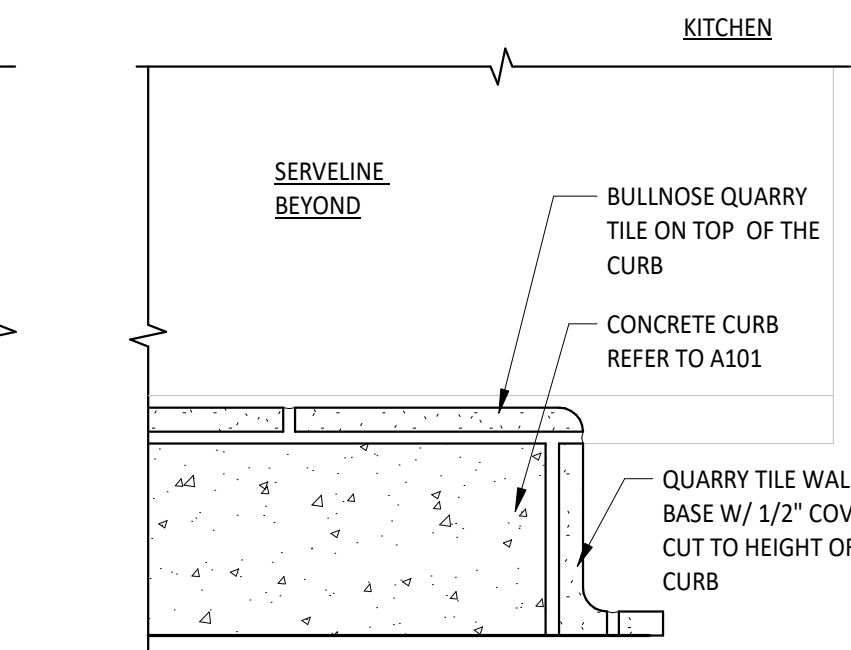
4 SECTION - QUARRY TILE BASE @ CERAMIC TILE
3" = 1'-0"



3 SECTION - CERAMIC TILE BASE @ TILE WALL
3" = 1'-0"



2 SECTION - QUARRY TILE @ CURB
3" = 1'-0"



1 SECTION - QUARRY TILE @ CURB
3" = 1'-0"

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Lake St. Louis

Store No. 4470

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Lake St. Louis, MO 63367

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10/18/22 Permit Issue

Revisions:

Project No.
01638

Finish Details

A802



④ INTERIOR VIEW



② INTERIOR VIEW



③ INTERIOR VIEW



① INTERIOR VIEW

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Lake St. Louis, MO 63367

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Interior Perspectives

A900

Governing Building Code: 2021 International Building Code

Gravity

Roof Live Load, L_r	20	psf
Ground Snow Load, P_g	20	psf
Flat Roof Snow Load, P_f (includes rain on snow)	19.0	psf
Snow Exposure Factor, C_e	1.0	
Snow Importance Factor, I_s	1.0	
Thermal Factor, C_t	1.0	

Wind:

Ultimate Design Wind Speed, V_{ult}	108 mph
Nominal Design Wind Speed, V_{asd}	84 mph
Risk Category	I
Exposure Category	B
Internal Pressure Coefficient	+0.18, -0.18
Components and Cladding (20 Sq Ft) (ult)	19.4 psf walls 27.8 psf roof

Seismic:

Seismic Risk Category	1
Seismic Importance Factor I_e	1.0
Mapped Spectral Response Acceleration S_s	0.308
Mapped Spectral Response Acceleration S_1	0.153
Site Class	C
Spectral Response Coefficient SDS	0.267
Spectral Response Coefficient SDI	0.133
Seismic Design Category	
Analysis Procedure	Exempt Per ASCE T-16 Section 3.1.4.5

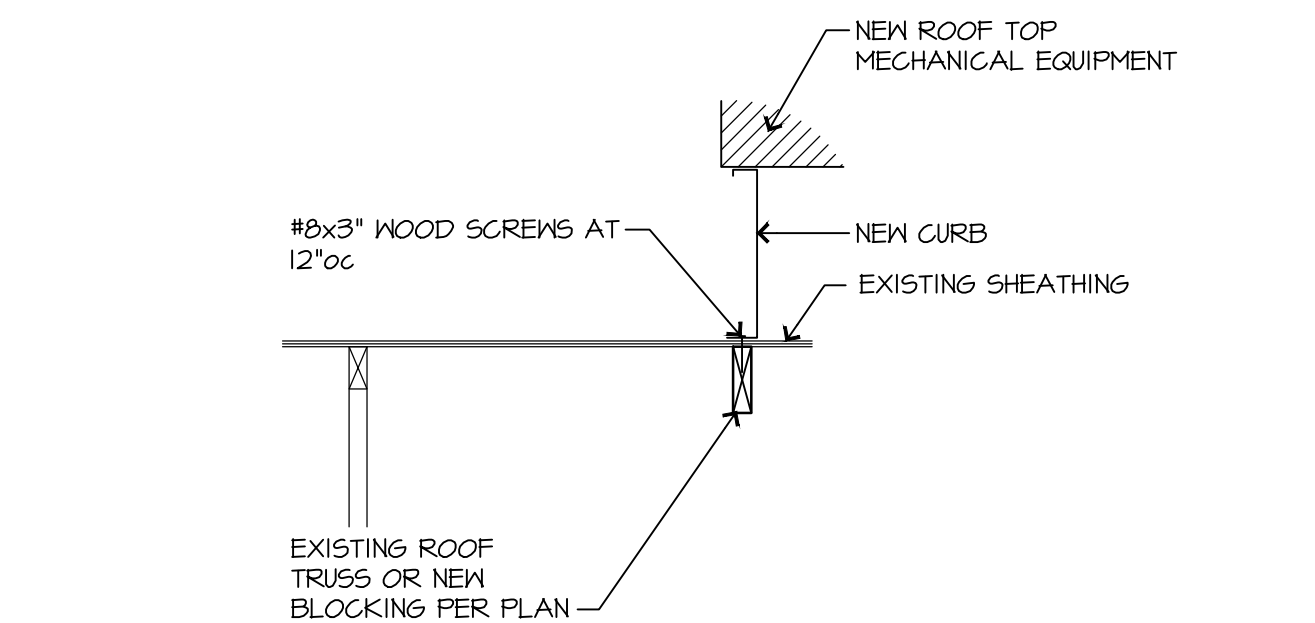
General:

1. These notes supplement the specification which should be referred to for additional information. Any conflict and/or contradiction of terms or requirements with these General Notes will be resolved by the Architect/Engineer in favor of the more stringent or superior quality requirement.
2. The General Contractor shall be responsible for verifying all dimensions and elevations shown on the plans and for coordinating all dimensions and elevations shown on the structural drawings with those shown on the architectural and mechanical drawings. If errors or discrepancies in the dimensions occur, it shall be the superintendent's responsibility to bring all discrepancies to the attention of the Architect before proceeding with the work. Field verify conditions of all adjacent existing construction prior to beginning work or ordering materials. Report any discrepancies with information contained in these documents immediately to Engineer.
3. The Contractor shall verify all architectural, mechanical, and electrical openings, sizes and locations, with the structural drawings.
4. Structural details shown on the drawings are general in nature and are valid for all similar areas and conditions unless specifically shown or noted otherwise.
5. The Contractor shall provide all temporary bracing and shoring as required during construction to ensure the safety of all individuals involved.
6. Furnish all labor, materials and equipment necessary to complete the work shown or inferred by these drawings.

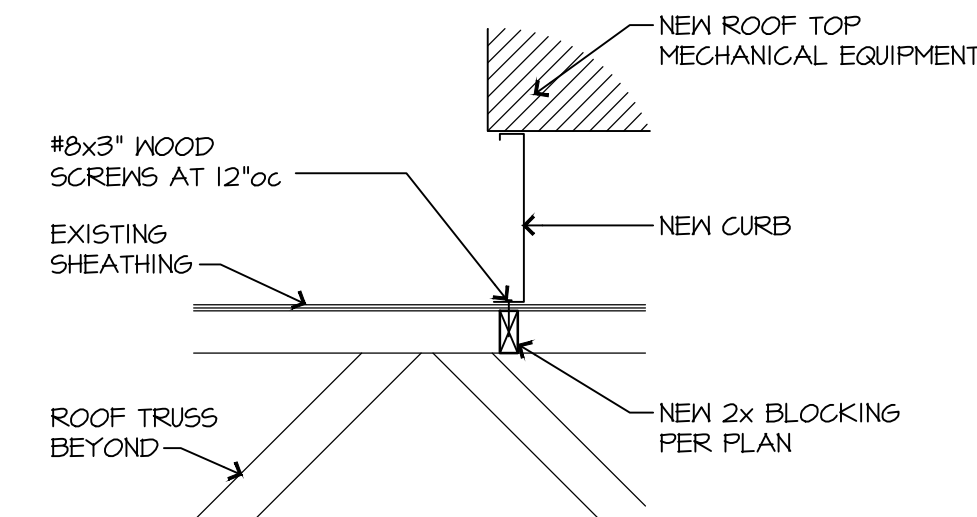
1. All sawn lumber framing members shall be #2 Douglas Fir or Southern Pine, UNO.
2. All wood framing members referenced as nominal sizes, dressed S4S. Provide actual sizes as required by PS20. Provide seasoned lumber with 19% maximum moisture content at time of drying.
3. All sawn lumber exposed to weather or in contact with concrete shall be pressure treated.
4. All wood structural panels shall be identified with the appropriate grade trademark of the American Plywood Association (APA) and shall meet the requirements of product standard PS-2, and shall be manufactured using exterior glue.
5. All nailing not indicated on the drawings shall conform to the nailing schedule of the governing building code. Spacing, end distances and edge distances of nails and spikes shall be as to avoid the unusual splitting of the wood.
6. All nails shall be common wire nails, unless noted otherwise.
7. All light gauge metal framing accessories noted shall be as manufactured by "Simpson Strong Tie" or approved equal, attach framing accessories to wood framing accessories to wood framing in accordance with manufacturers recommendations.
8. Wood glue shall meet the requirements of ASTM D3498.

1. Metal studs shall meet the following criteria:
 - a. ASTM A570-74, Grade 33
 - b. ASTM A611-82, Grade C
 - c. ASTM A446-83, Grade A or C
2. Metal studs and joists shall have the following minimum sizes:
 - a. Depth and Gauge: As noted on drawings.
 - b. Flange Width: As noted on drawings.
 - c. Lip Width: 1/2"
 - d. Minimum Yield Strength: 33 ksi for under 6" members and 50 ksi for members 6" and over.
3. Tracks and Runners gauge shall match studs and joist or as noted on drawings if heavier. Flange width shall be 2".
4. All light gauge framing on exterior walls or exposed to weather shall be galvanized to meet the requirements of ASTM A525, G-60.
5. All light gauge steel framing shall be installed with bridging, bracing, track, and stiffeners, etc. required to strictly conform to manufacturer's recommendations. Contractor shall obtain a copy of the manufacturer's suggested construction details to use as a reference during construction.
6. Where sheathing is not required on both faces of steel studs, continuous bridging shall be installed as required by manufacturer.

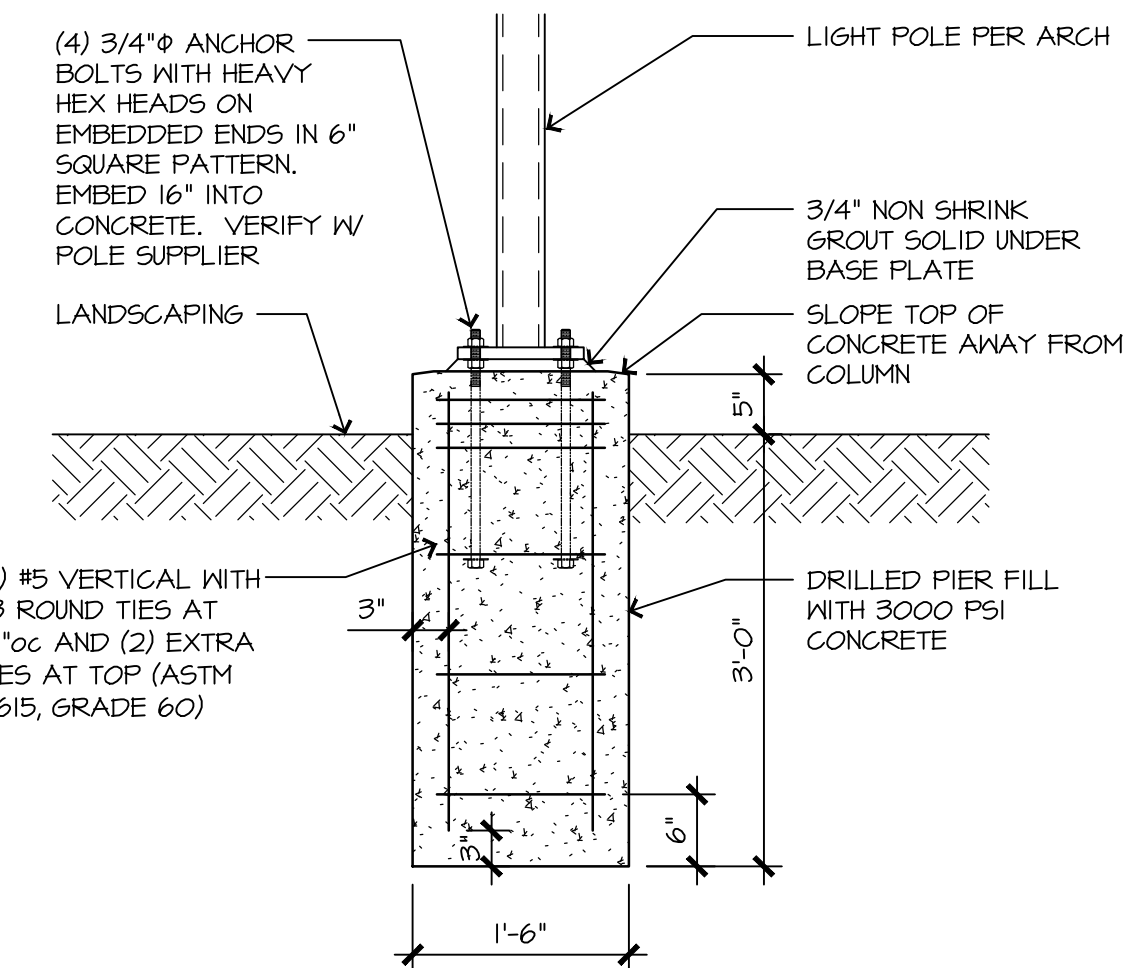
I, Garth L. Durre, P.E., Registered Engineer and a Principal of Norton & Schmidt Consulting Engineers, LLC, accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of sheets S1 and S2. I disclaim any responsibility for all other drawings in the construction document package as they are the responsibility of other design professionals.



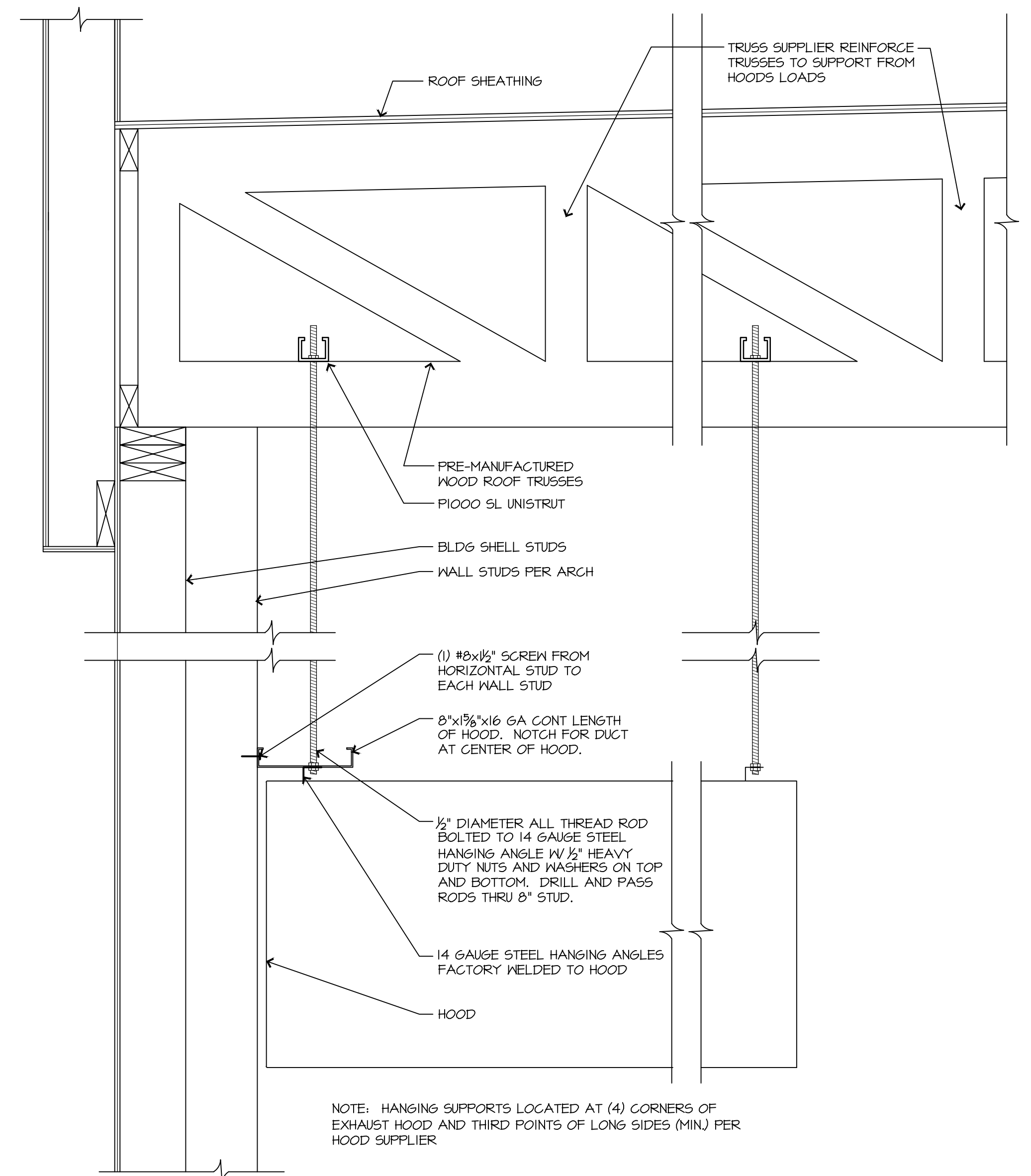
SCALE: 3/4" = 1'-0" SECTION



SCALE: 3/4" = 1'-0" SECTION



SCALE: 3/4" = 1'-0" SECTION



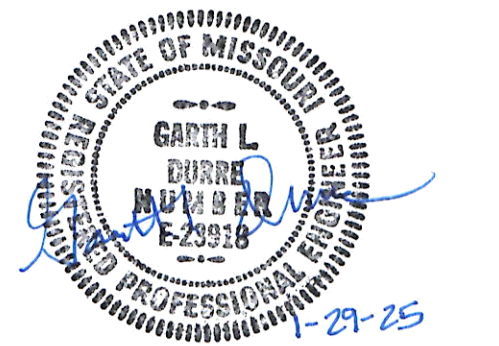
SCALE: 1 1/2" = 1'-0" SECTION

	ELEVATION DESCRIPTION		ELEVATION DESIGNATION
	TYPE NO./SHEET		CUT SYMBOL
	TYPE NO./SHEET		SECTION CUT
	TYPE NO./SHEET		ELEVATION DETAIL
	TYPE NO./SHEET		BLOWUP DETAIL
	GRID		GRID DESIGNATION
	LOAD		POINT LOAD SYMBOL
	REVISION		REVISION DESIGNATION
	22		PLAN NOTE SYMBOL
	1		SLAB JOINT DESIGNATION
	100'-0"		SPOT ELEVATION
	100'-0"		STRUCTURAL METAL STUD WALL
	PLAN: STRUCTURAL JOIST		PLAN: STRUCTURAL JOIST
	DETAIL: EDGE OF ARCHITECTURAL FINISH		DETAIL: EDGE OF ARCHITECTURAL FINISH

AB	ANCHOR BOLT	MCJ	MASONRY CONTROL JOINT
ACI	AMERICAN CONCRETE INSTITUTE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURER
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MIN	MINIMUM
AISI	AMERICAN IRON AND STEEL INSTITUTE	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL	MO	MASONRY OPENING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MTL	METAL
AWS	AMERICAN WELDING SOCIETY	NIC	NOT IN CONTRACT
BFF	BELOW FINISH FLOOR	NO	NUMBER
BFS	BOTTOM OF FOOTING STEP	NS	NEAR SIDE
BL	BLOCK LINTEL	NTS	NOT TO SCALE
BO	BOTTOM OF	OC	ON CENTER
BOS	BOTTOM OF STEEL	OH	OPPOSITE HAND
BRG	BEARING	PAF	POUNDER ACTUATED FASTENERS
CIP	CAST-IN-PLACE CONCRETE	PCF	POUNDS PER CUBIC FOOT
CL	CONTROL JOINT (WALL)	PL	PLATE
CLF	CENTER LINE	PLF	POUNDS PER LINEAR FOOT
CLR	CLEAR	PSI	POUNDS PER SQUARE INCH
CMU	CONCRETE MASONRY UNIT	QTY	QUANTITY
COL	COLUMN	RD	ROOF DRAIN
CONC	CONCRETE	REF	REFERENCE
CONST	CONSTRUCTION	REINF	REINFORCING
CONT	CONTINUOUS	REQD	REQUIRED
DIA	DIAMETER	REV	REVERSE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RO	ROUGH OPENING
EJ	EXPANSION JOINT	RTU	ROOF TOP UNIT
EL	ELEVATION	SDI	STEEL DECK INSTITUTE
ELEC	ELECTRICAL	SIM	SIMILAR
EQ	EQUAL	SJI	STEEL JOIST INSTITUTE
EW	EACH WAY	SPECS	SPECIFICATIONS
FDN	FOUNDATION	T4B	TOP AND BOTTOM
FF	FINISH FLOOR	TF5	TOP OF FOOTING STEP
FS	FAR SIDE	THK	THICK
FTG	FOOTING	TO	TOP OF
GA	GAGE	TOC	TOP OF CONCRETE
GC	GENERAL CONTRACTOR	TOF	TOP OF FOOTING
GYP BD	GYPSUM BOARD	TOGB	TOP OF GRADE BEAM
HORIZ	HORIZONTAL	TOM	TOP OF MASONRY
HSA	HEADED STUD ANCHOR	TOP	TOP OF FOOTING
INFO	INFORMATION	TOP OF STEEL	
JST	JOIST	TRANS	TRANSVERSE
JT	JOINT	TYP	TYPICAL
KSI	KIPS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
LB5	POUNDS	VERT	VERTICAL
LLH	LONG LEG HORIZONTAL	W	WIDTH
LLV	LONG LEG VERTICAL	WP	WORK POINT
LONG	LONGITUDINAL	WS	WALL STEP
MAX	MAXIMUM	WNF	WELDED WIRE FABRIC

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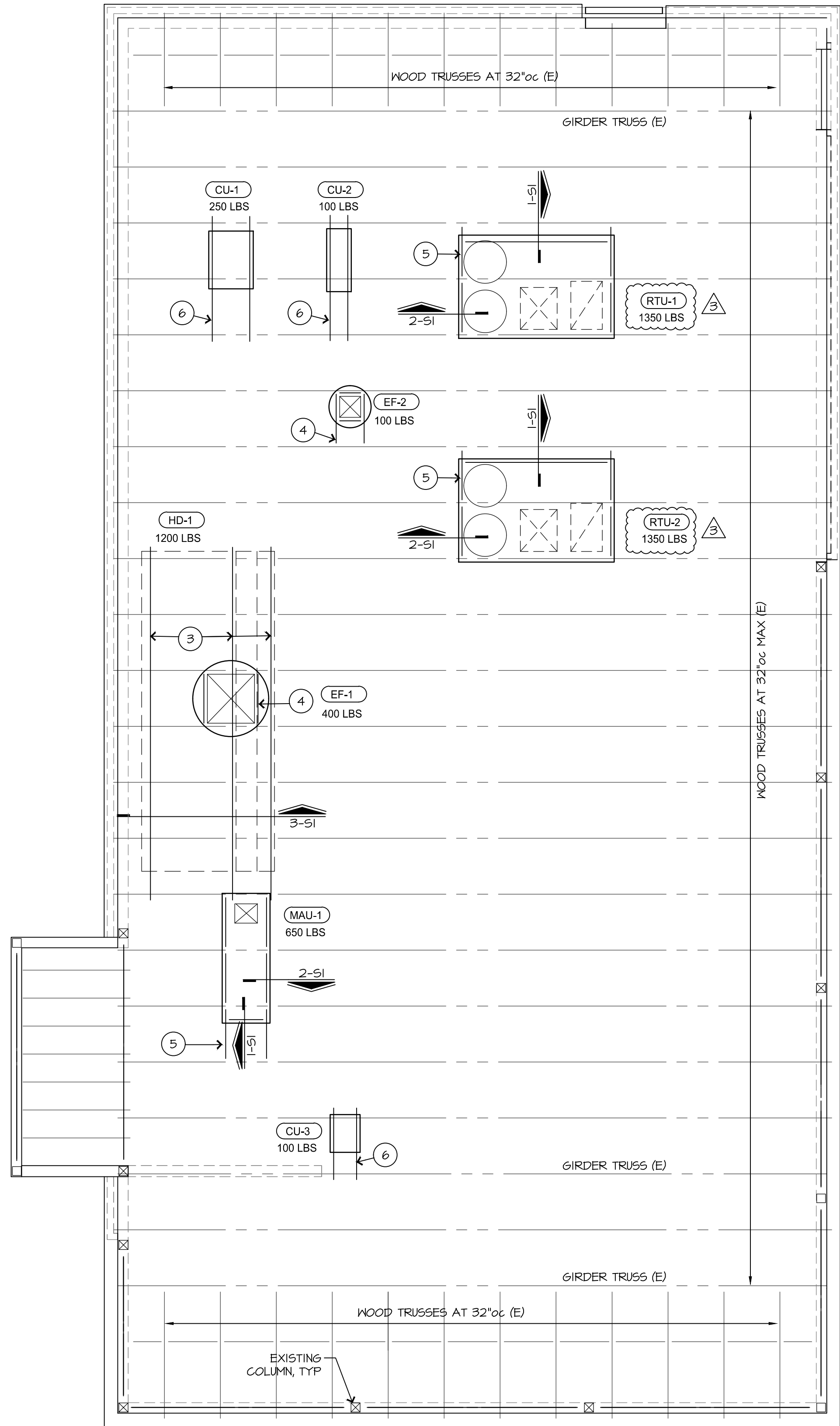
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10/18/2022	Permit Set
10/15/2024	Construction Issue

Revisions:  01/29/2025 City Comments

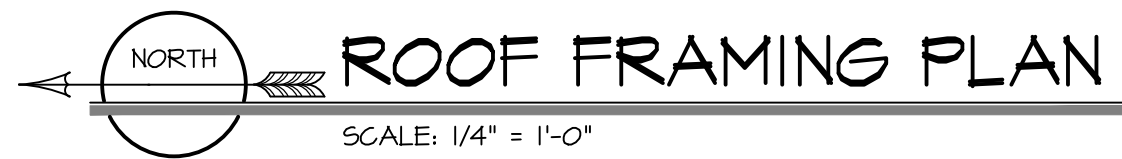
Project No.
01638

Notes & Sections

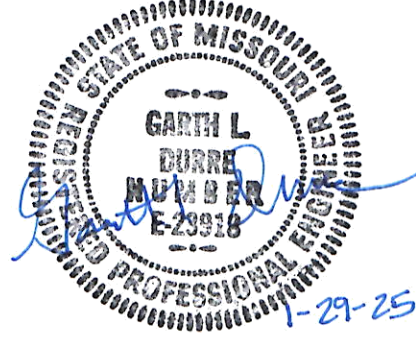
S1



- NOTES:**
NOTES ARE TYPICAL UNLESS NOTE NUMBER IS INSIDE OF CIRCLE, THEN THE NOTE REFERS TO A SPECIFIC LOCATION(S) MARKED ON THE PLAN.
1. FIELD VERIFY ALL DIMENSIONS OF EXISTING CONSTRUCTION AND SIZES OF EXISTING SUPPORT MEMBERS; REF ARCH FOR DIMENSIONS NOT SHOWN.
 2. ROOF SUPPORTED EQUIPMENT SHALL BE LOCATED PER PLAN. MOVING ANY EQUIPMENT SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER.
 3. HOOD SUPPORT UNISTRUT, REF 3-SI.
 4. PROVIDE NEW (2) 2x4 BLOCKING AND SCREEN FANS TO BLOCKING PER 1-SI AND 2-SI. PROVIDE SIMPSON LUS24-2 JOIST HANGERS AT ENDS OF BLOCKING.
 5. PROVIDE (2) 2x4 BLOCKING AT EDGES OF EQUIPMENT. REF 1-SI AND 2-SI. PROVIDE SIMPSON LUS24-2 JOIST HANGERS AT ENDS OF BLOCKING.
 6. SET CONDENSING UNITS ON PRESSURE TREATED 4x4's LAID ON ROOFING. 4x4's SHALL SPAN BETWEEN EXISTING TRUSSES AS SHOWN.



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Issue Record:	
10/18/2022	Permit Set
10/15/2024	Construction Issue

Revisions:	
00/29/2026	DB/Updates

Project No.
01638

Roof Framing
Plan

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1- GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data and Shop Drawings.

B. Comply with ASHRAE 15.

C. EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.

D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.

1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.

2. Evaporator Fans: Belt or direct driven, forward curved centrifugal.

3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.

4. Condenser Fans: Direct drive propeller.

5. Refrigerant Coils: Aluminum fins and copper coil.

6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.

7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.

8. Economizer controls (Comparative Enthalpy, 100% capacity).

9. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.

10. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.

11. Roof curb.

12. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.

13. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install units level and plumb and firmly anchored.

B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.

C. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.

D. Connect units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1- GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data for fire and smoke dampers.

B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.

C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..

D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.

E. Comply with UL 181 and UL 181A for ducts and closures.

F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

PART 2 - PRODUCTS

2.1 DUCTS

A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924

1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.

2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.

B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.

C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating.

Thickness: 1-1/2 inch. R-value : 8.

1. Adhesive: ASTM C 916, Type I.

2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.

D. Joint and Seam Tape: Comply with UL 181A.

E. Joint and Seam Sealant: Comply with UL 181A.

F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

2.2 ACCESSORIES

A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.

B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".

C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.

D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.

B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.

C. Avoid passing through electrical equipment spaces and enclosures.

D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".

E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.

F. Install liner and/or insulation on ductwork per the material schedule on sheet M010.

G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.

H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.

I. Install fusible links in fire dampers.

J. Provide saddle taps at tees for exposed ductwork.

3.2 TESTING, ADJUSTING, AND BALANCING

A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.

B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.

C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.

D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1- GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS

A. All air terminal devices:

1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule

2. Manufacturer: As scheduled (NO SUBSTITUTIONS)

3. Material: As scheduled.

4. Finish: As scheduled.

5. Mounting: As scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.

B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

HVAC GENERAL NOTES

- A GENERAL NOTES APPLY TO HVAC SHEETS.
- B WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
- C CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- D COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
- E DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- G PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- H COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- I UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUS ED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- J REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.
- K THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- L INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING) FURNISHED BY TSV.
- M PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC MATERIAL SCHEDULE		
	APPLICATION	ALLOWABLE MATERIAL
DUCT		
	CONCEALED, GENERAL EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC

HVAC ABBREVIATIONS

(E) EXISTING

ABV ABOVE

ADA AMERICANS WITH DISABILITIES ACT

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

AHJ AUTHORITY HAVING JURISDICTION

BFF BELOW FINISHED FLOOR

BFG BELOW FINISHED GRADE

BOH BACK OF HOUSE

CLG CEILING

CTE CONNECT TO EXISTING

DN DOWN

EXT'G EXISTING

FLR FLOOR

FOH FRONT OF HOUSE

GYP GYPSUM BOARD

NTS NOT TO SCALE

O/H OVERHEAD

ODB OPPOSED BLADE DAMPER

TYP TYPICAL

U/G UNDERGROUND

UNO UNLESS NOTED OTHERWISE

VFD VARIABLE FREQUENCY DRIVE

VSC VARIABLE SPEED CONTROLLER

W/ WITH

WIC WALK-IN COOLER

C02AS TENANT'S CO2 ALARM SUPPLIER

GC GENERAL CONTRACTOR

HES TENANT'S HVAC EQUIPMENT SUPPLIER

HS TENANT'S HOOD SUPPLIER

KES TENANT'S KITCHEN EQUIPMENT SUPPLIER

LL LANDLORD

SPS TENANT'S SODA POP SUPPLIER

TAB TENANT'S TEST AND BALANCE VENDOR

TCC TENANT'S CABLING CONTRACTOR

TDC TENANT'S DUCT CLEANER

TEMS TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER

TLS TENANT'S LIGHT/LAMP SUPPLIER

TMB TENANT'S MENU BOARD SUPPLIER

TMS TENANT'S MILLWORK SUPPLIER

TNP TENANT'S PHONE SUPPLIER

TPS TENANT'S PANELBOARD SUPPLIER

TRS TENANT'S RAILING SUPPLIER

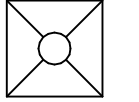
TSV TENANT'S SIGN VENDOR

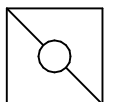
TUV TENANT'S UV SNAITIZER SUPPLIER

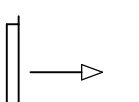
WCS TENANT'S WALK-IN COOLER SUPPLIER

WHS TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

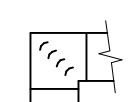
 CEILING DIFFUSER

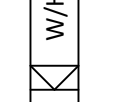
 CEILING-MOUNTED RETURN OR EXHAUST REGISTER

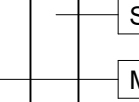
 SUPPLY REGISTER

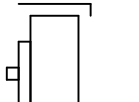
 RETURN GRILLE

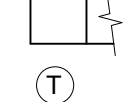
 FLEXIBLE DUCT

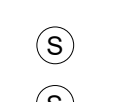
 MITERED CORNER WITH TURNING VANES

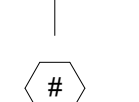
 DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT)

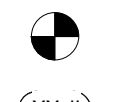
 RECTANGULAR TO ROUND DUCT TRANSITION

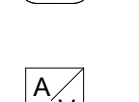
 DUCT-MOUNTED SMOKE DETECTOR

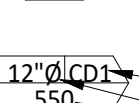
 MOTOR-OPERATED DAMPER

 MANUAL VOLUME DAMPER

 GREASE DUCT CLEANOUT

 MITERED CORNER WITHOUT TURNING VANES

 GRIDPOINT THERMOSTAT

 GRIDPOINT ZONE SENSOR MODULE

 GRIDPOINT SUPPLY PROBE

 PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING

 CONNECT TO EXISTING

 EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION

 AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET

 GRILL, REGISTER, OR DIFFUSER TAG: TAG NECK SIZE AIRFLOW [CFM]

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Lake St. Louis, MO 63367

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2 09/16/2024	

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IJD	AJD

Project No.
221026

Contents:

HVAC SPECIFICATIONS

M010

Consultant:



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HVAC SCHEDULES

M600

CONTROL FUNCTIONS

- A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	3,200 CFM	-3,200 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,950 CFM	0 CFM	0 CFM	1,950 CFM
RTU-1	3,400 CFM	2,650 CFM	0 CFM	750 CFM
RTU-2	4,000 CFM	3,250 CFM	0 CFM	750 CFM
NET PRESSURIZATION				100 CFM

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD, REMOVE 4-WAY DEFLECTORS
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG3	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	PROVED WITH CONCEALED MOUNTING AND FACE ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	S1DH	PROVIDE WITH INTEGRAL OBD

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

FAN SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	UPBLAST UL762 EXHAUST FAN	3,200 CFM	1.20 in-wg	400 lb	3 hp	208/3/60	HS	GC	CAPTIVE-AIRE	DU240HFA	DIRECT DRIVE UL762 UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.18 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB

VIROGUARD SCHEDULE

TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	18" X 18"	CAPTIVE-AIRE DU240HFA	TDC	GC	ENVIROMATIC

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			COMPRESSORS	CIRCUITS	TYPE	CHARGE		MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	CONDENSING UNIT - WALK-IN COOLER		1	1	R-404A	10.4 lb	250 lb	15 A	9 A	208/3/60	WCS	GC	HARFORD	KPCL99MZOP-3E	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9FZ	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER		0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5FZ	FURNISHED WITH ICE MAKER

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	HEATING			WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				INPUT	OUTPUT	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,950 CFM	0.80 in-wg	225,000 Btu/h	220,000 Btu/h	21 °F	650 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM							PERFORATED SUPPLY PLENUMS								NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
			AIRFLOW	E.S.P.	DUCT COLLARS			LENGTH	WIDTH	LENGTH	WIDTH	MAU PLENUM				AC PLENUM									
					NO.	WIDTH	LENGTH					AIRFLOW	NO.	WIDTH	LENGTH	AIRFLOW	DUCT COLLARS								
																	NO.					DIAMETER			
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	3,200 CFM	0.86 in-wg	2	10"	1' - 3"	14' - 3"	4' - 3"	15' - 3"	1' - 10"	1,950 CFM	4	10"	2' - 0"	800 CFM	7	8"	10	1,200 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACSP-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	AIRFLOW		E.S.P. (IN. W.C.)	NET COOLING CAPACITY				HEATING CAPACITY				WEIGHT	ELECTRICAL			BASIS FOR DESIGN		REMARKS
			TOTAL	OA		TOTAL (MBH)	SENSIBLE (MBH)	EAT DB	WB	COND. EAT	INPUT (MBH)	OUTPUT (MBH)	EAT		MOCP	MCA	V/P/H	MANUFACTURER	MODEL	
RTU-1	KITCHEN ROOFTOP UNIT	8.5 ton	3,400 CFM	750 CFM	0.8	100.7	69.4	80 °F	67 °F	95 °F	180	144	61 °F	1,350 lb	60 A	48.3 A	208/3/60	YORK	ZJ102N18	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, FACTORY MOUNTED DISCONNECT, & UNIT-MOUNTED FIELD WIRED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	10 ton	4,000 CFM	750 CFM	0.8	119.0	84.0	80 °F	67 °F	95 °F	250	204	60 °F	1,150 lb	60 A	53 A	208/3/60	YORK	ZYG12	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, FACTORY MOUNTED DISCONNECT, & UNIT-MOUNTED FIELD WIRED CONVENIENCE RECEPTACLE

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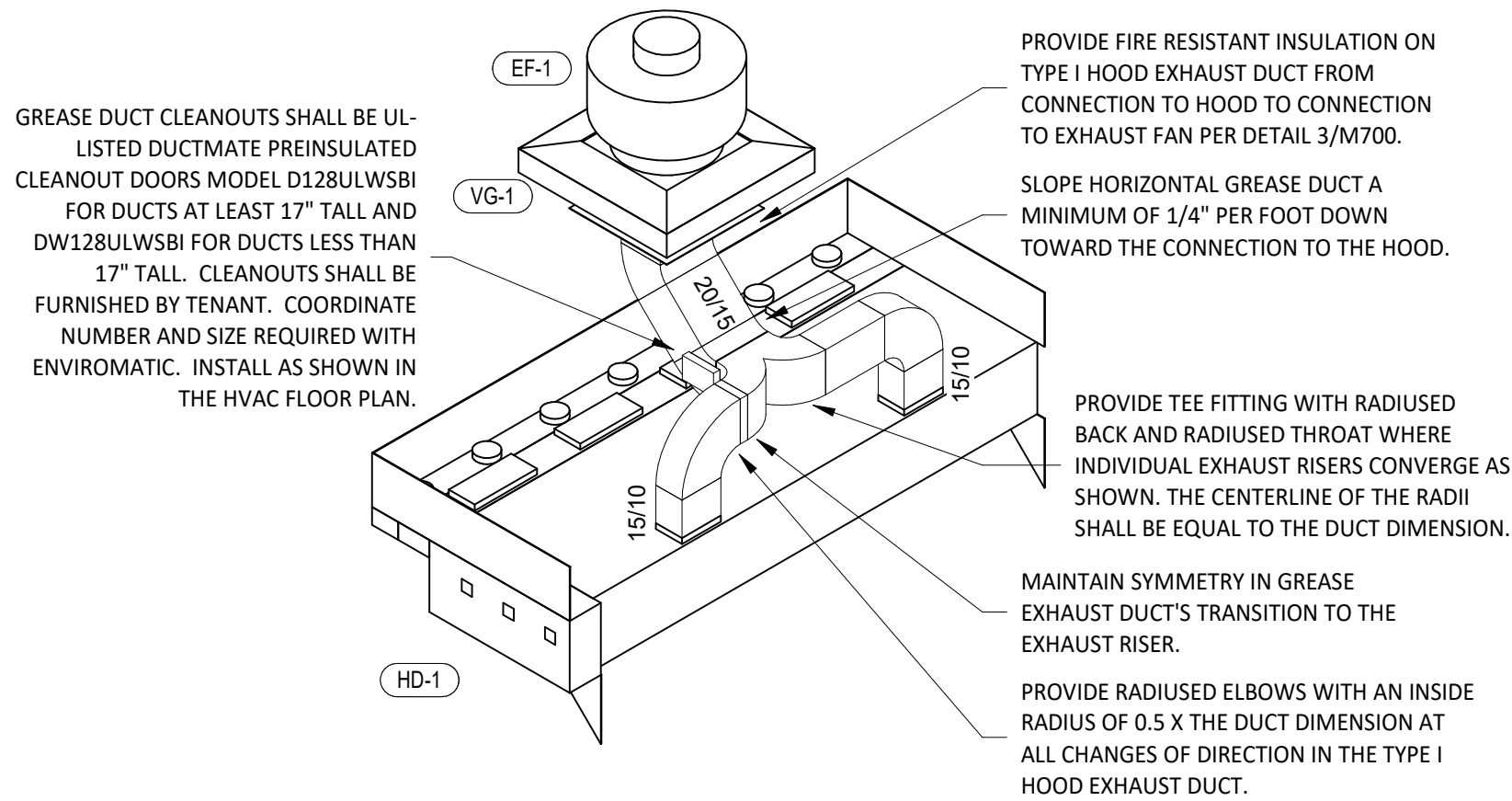
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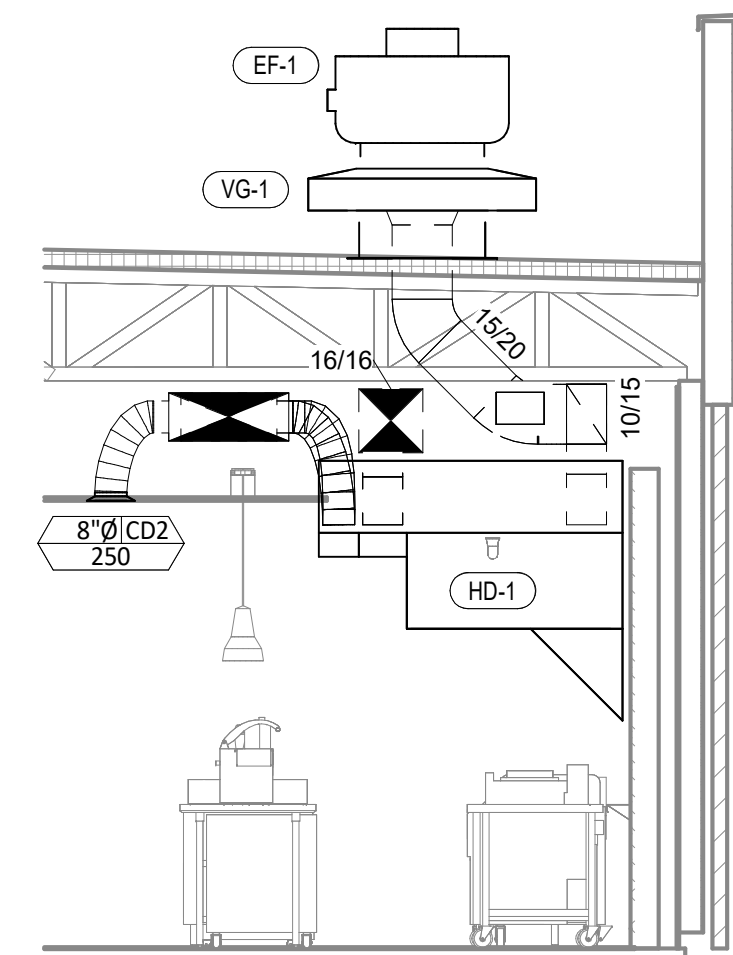
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HVAC DETAILS

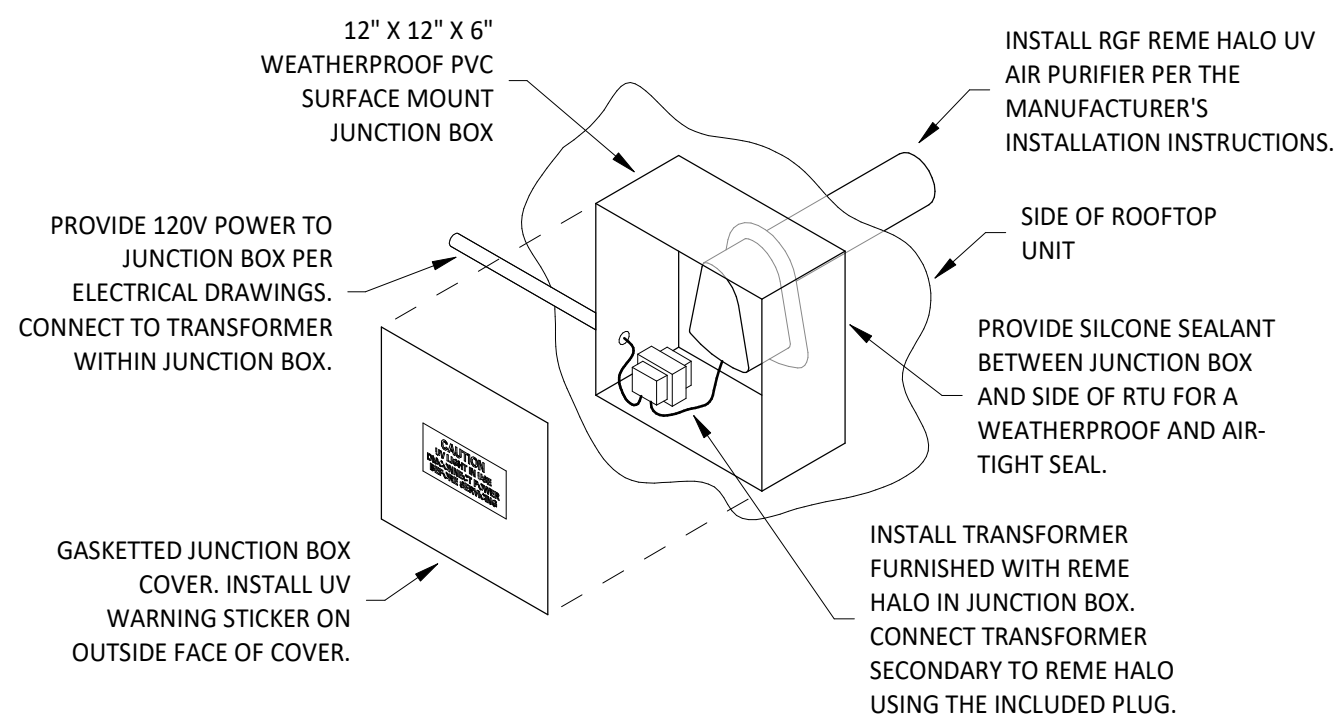
M700



8 HOOD EXHAUST ISOMETRIC
M700 NOT TO SCALE

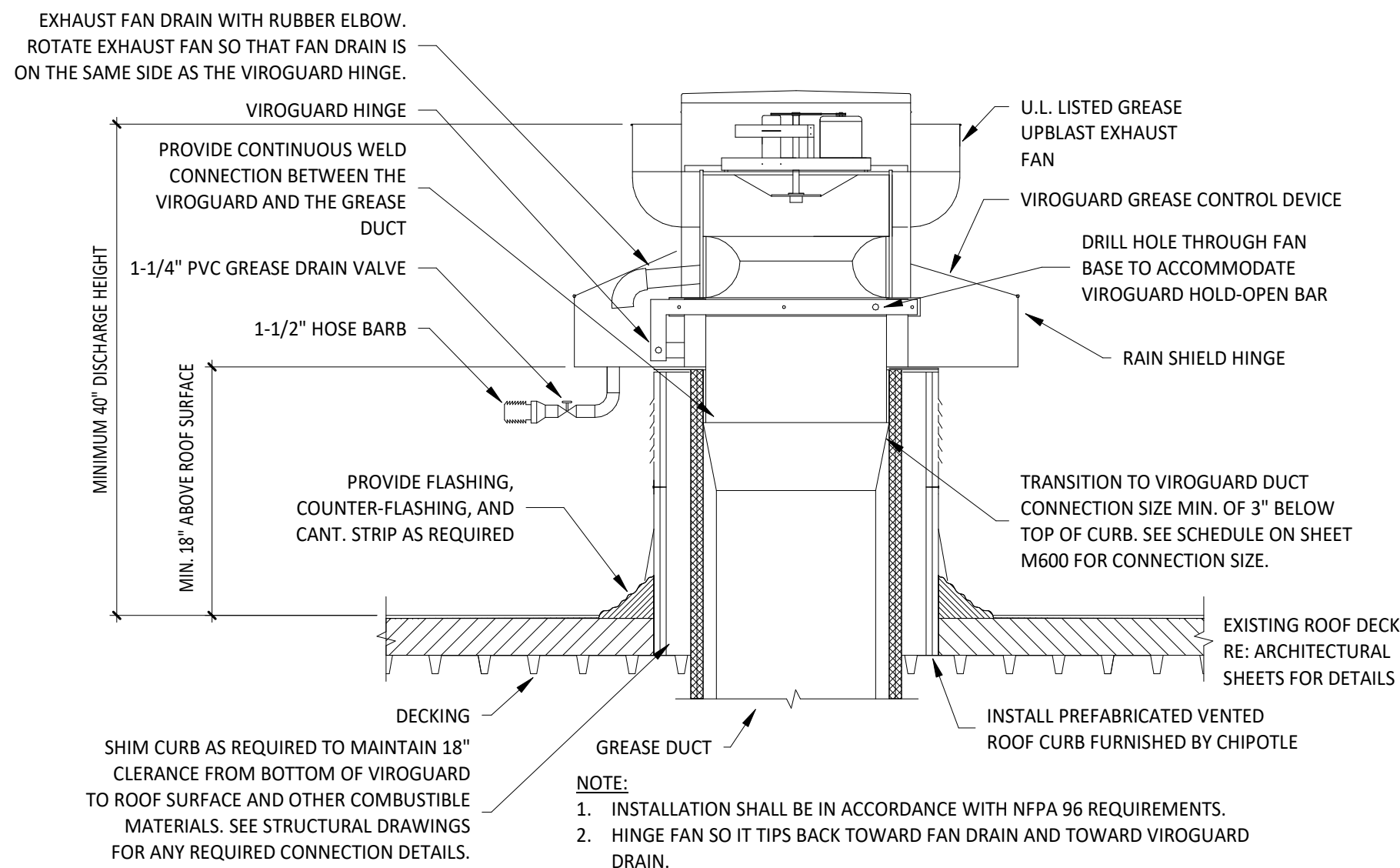


7 DUCT SECTION AT HOOD
M700 1/4" = 1'-0"

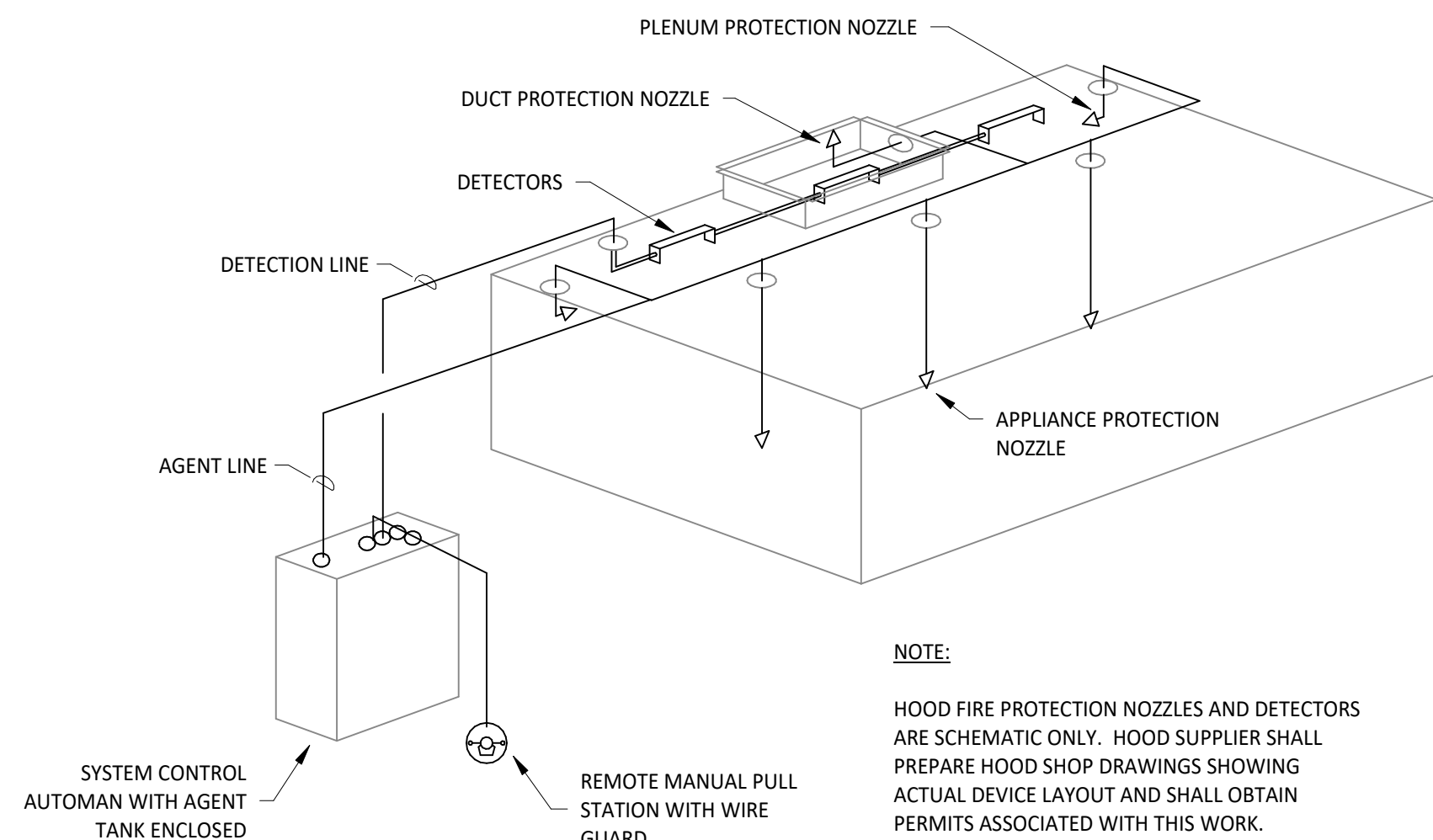


INSTALLATION LOCATION
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:
FRAME: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.
YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

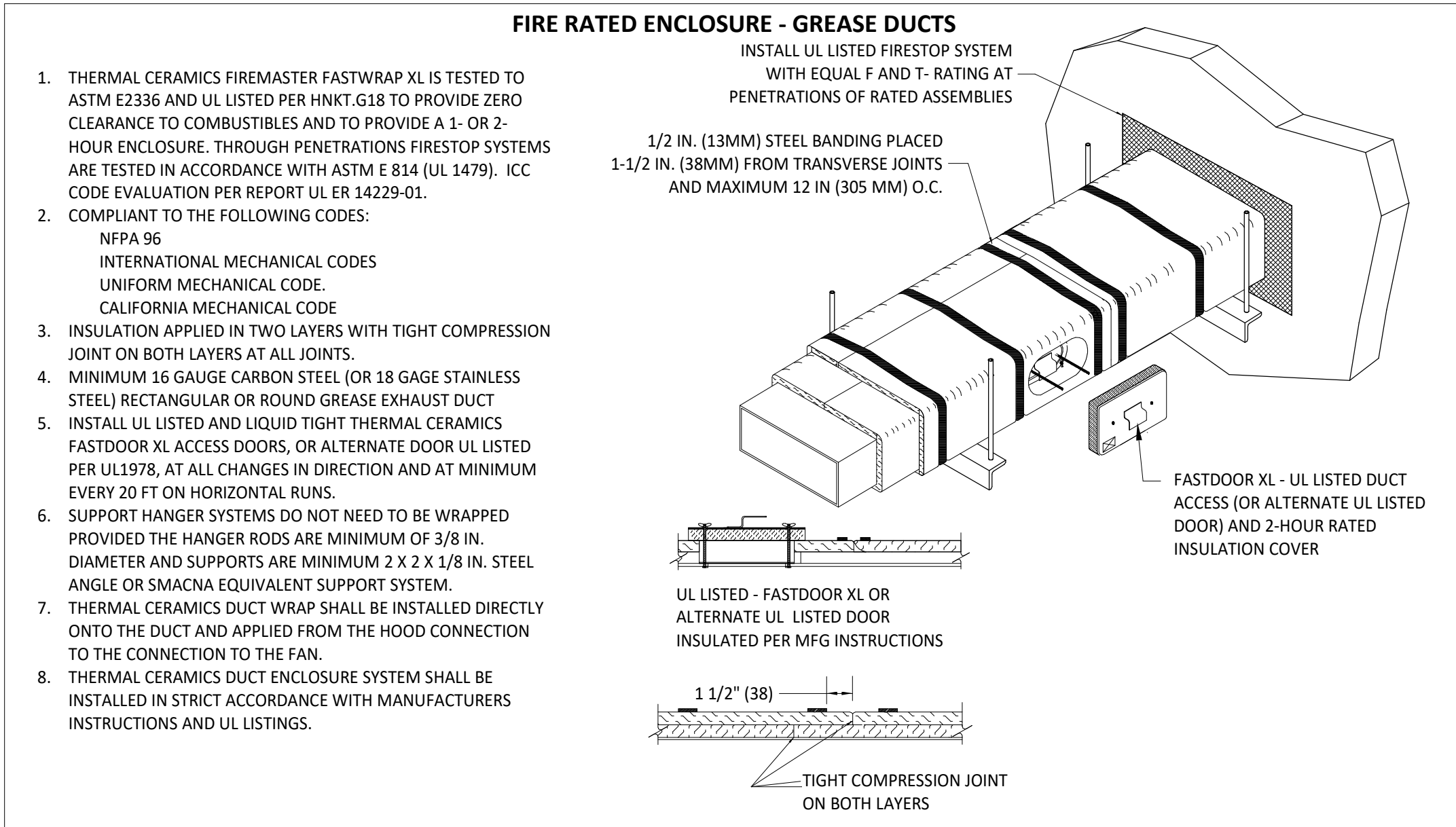
6 UV AIR PURIFIER INSTALLATION
M700 NOT TO SCALE



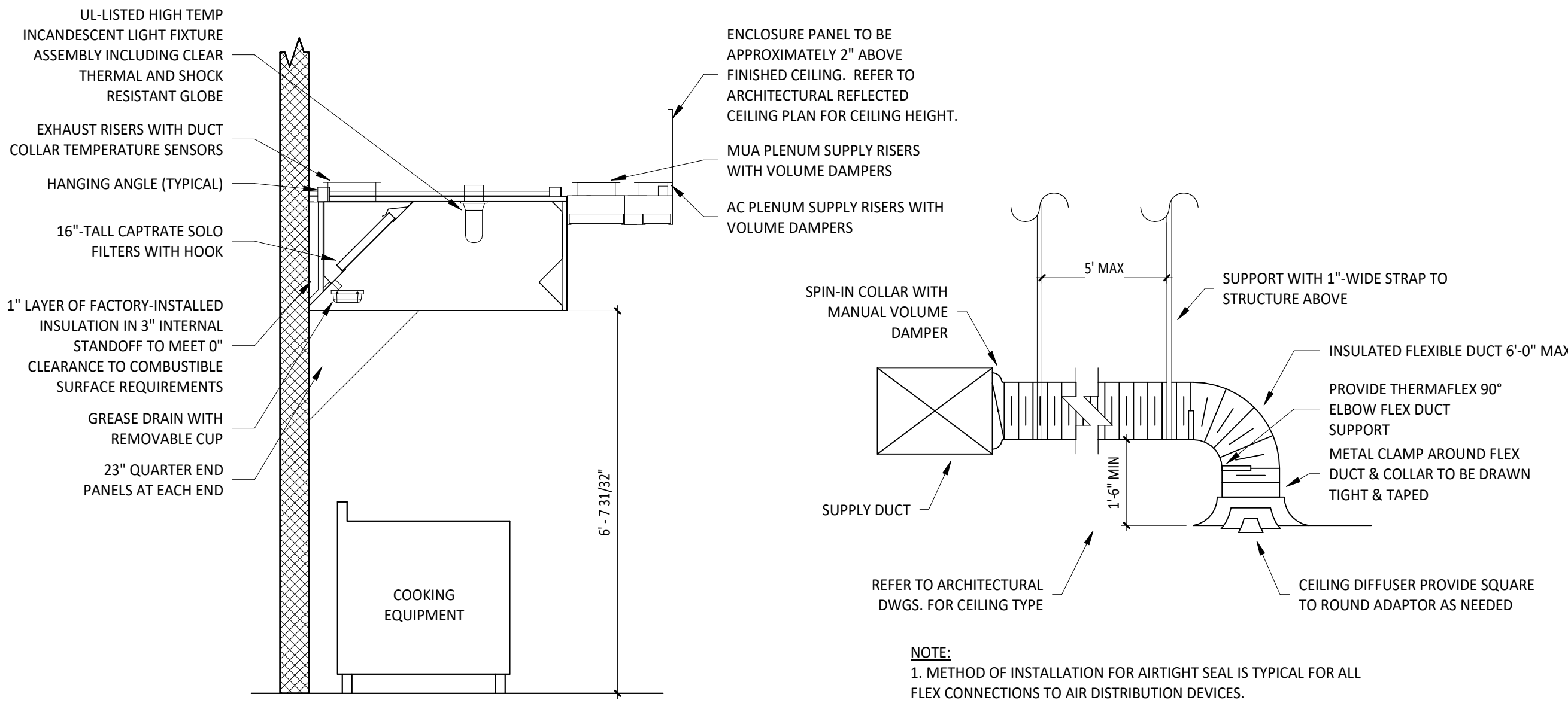
5 GREASE EXHAUST FAN
M700 NOT TO SCALE



4 FIRE SUPPRESSION SYSTEM SCHEMATIC
M700 NOT TO SCALE



3 FIREMASTER DUCT WRAP - UL HNKT-G18
M700 NOT TO SCALE



2 HOOD SECTION VIEW
M700 NOT TO SCALE

1 DIFFUSER CONNECTION
M700 NOT TO SCALE

PLUMBING FIXTURE SUPPLY CONNECTIONS

ROUGH-IN TYPE KEY									
ANGLE 3/8"	BRASS CRAFT KTR19 OR EQUAL (BRASS/CHROME 1/4 TURN ANGLED BALL STOP WITH 3/8" COMPRESSION CONNECTION)								
ANGLE 1/2"	BRASS CRAFT R39X C OR EQUAL (BRASS/CHROME MULTI-TURN ANGLED STOP WITH 1/2" COMPRESSION CONNECTION)								
ANGLE 3/4"	EVERFLOW 74342-NL W/ 3/4" SWEAT X MIP ADAPTER OR EQUAL (BRASS ANGLE STOP W/ 3/4" FIP INLET A ND...)								
DIRECT	PROVIDE COPPER PIPE IN CONNECTION SIZE SHOWN TO FIXTURE								
HOSE 1/2"	ARROWHEAD BRASS WM50F OR EQUAL (BRASS/CHROME WASHING MACHINE VALVE W/ 3/4" MHT OUTL ET)								
MIP	PROVIDE PIPE WITH MIP THREAD STUBBED OUT OF WALL IN CONNECTION SIZE SHOWN AND LENGTH COMPATIBLE WITH FIXTURE AND WALL MATERIAL/FINISHES.								
TAG	DESCRIPTION	CONNECTION SIZE		ROUGH-IN TYPE	WSFU		COUNT	TOTAL	
		CW	HW		CW	HW			WSFU
BFP-1	RPZ BACKFLOW PREVENTER	1/2"		DIRECT	0	0	0	1	0
BFP-2	RPZ BACKFLOW PREVENTER	1 1/2"		DIRECT	0	0	0	1	0
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	0"	1/2"		0	3	3	1	3
ET-1	EXPANSION TANK	3/4"		DIRECT	0		0	1	0
HB-1	CHEMICAL DISPENSER HOSE BIB	1/2"	1/2"	MIP	2.25	2.25	3	2	6
HB-2	VEGETABLE WASH HOSE BIB	1/2"		MIP	1.5		1.5	1	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	1/2"		1.5	1.5	2	2	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	4	8
IM-1	ICE MAKER - BOH	1/2"			1		1	1	1
IM-2	ICE MAKER - SODA	1/2"			1		1	1	1
IM-3	ICE MAKER - SODA	1/2"			1		1	1	1
MB-1B	MOP SINK FAUCET	1/2"	1/2"	MIP	2.25	2.25	3	1	3
PF-1	SPEED FILL FAUCET	3/8"		MIP	1.5		1.5	1	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"		DIRECT	1		1	1	1
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	1/2"		ANGLE 3/8"	1		1	1	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"	ANGLE 1/2"	3	3	4	1	4
SK-2	PREP SINK	3/4"	3/4"	ANGLE 3/4"	3	3	4	1	4
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	1/2"		DIRECT	0		0	2	0
WC-1	WATER CLOSET	1/2"		ANGLE 3/8"	2		2	2	4
WH-1	FREEZE PROOF WALL HYDRANT	3/4"		DIRECT	1		1	2	2
WS-1	WATER SOFTENER	1"			0		0	1	0
GRAND TOTAL									46

PLUMBING SUPPLY PLAN NOTES

- SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 1-1/2" DOMESTIC WATER SERVICE. FIELD VERIFY EXACT LOCATION EXISTING LINE STUBBED INTO SPACE.
- PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
- PROVIDE WATER HEATERS DWH-1 AND DWH-2 PER DETAIL 1/P700.
- PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 11/P700. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
- PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 56" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
- PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- EXISTING GAS METER BY SHELL. SEE CIVIL UTILITY PLAN FOR ON-SITE GAS ROUTING.
- PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 7/P700.
- SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P700. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
- PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.
- PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- PROVIDE RESTROOM HAND SINK WALL CARRIER IN WALL PER PLUMBING SCHEDULE. INSTALL THERMOSTATIC MIXING VALVE FURNISHED WITH HAND SINK FAUCET SECURED TO WALL BELOW HAND SINK. ALL HAND SINK PIPING AND ACCESSORIES SHALL BE FULLY CONTAINED DIRECTLY BELOW HAND SINK.
- PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/P700.
- CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.
- PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
- PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
- PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/P700.
- PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE ONCE FRYER IS SECURED INTO PLACE.
- PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
- INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
- PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WASH CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN.
- PROVIDE 1/2" HOT WATER TO THE DISH MACHINE AT 66" AFF ABOVE LEFT SIDE OF DISH MACHINE, MAKING FINAL CONNECTION USING HOSE FURNISHED WITH DISH MACHINE. PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE.
- PROVIDE ROOF HYDRANT RH-1 WITH BOTTOM OF NOZZLE INSTALLED 24" ABOVE THE BOTTOM OF ROOF DECK. PROVIDE ACCESSIBLE ISOLATION VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 42" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
- PROVIDE WATER SERVICE ENTRY PER DETAIL 16/P700.
- INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
- PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
- PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPE(S) TO FLOOR DRAIN TRAP PRIMER CONNECTION(S) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAIN(S).
- WATER SOFTENER TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION.
- REPLACE STOCK WATER CLOSET HANDLE WITH UNIVERSAL CABLE-OPERATED HANDLE (FLUSHMATE AP300503 OR AP300504 - FIELD VERIFY COMPATIBILITY WITH FLUSHMATE SYSTEM IN WATER CLOSET).

PLUMBING GAS CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE	EQUIVALENT LENGTH	INPUT
DWH-1	WATER HEATER (GAS TANKLESS)	3/4"	50'	199,000 Btu/h
DWH-2	WATER HEATER (GAS TANKLESS)	3/4"	50'	199,000 Btu/h
FB-1	GAS FRYER	3/4"	80'	90,000 Btu/h
GR-1	GAS GRIDDLE	3/4"	90'	110,000 Btu/h
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1/2"	100'	225,000 Btu/h
RC-1	RICE COOKER	3/4"	85'	33,000 Btu/h
RN-1	6 BURNER RANGE	3/4"	90'	192,000 Btu/h
RTU-1	KITCHEN ROOFTOP UNIT	3/4"	50'	180 Btu/h
RTU-2	DINING ROOM ROOFTOP UNIT	3/4"	65'	250 Btu/h
GRAND TOTAL			MAX: 100	1,048,430 Btu/h

NOTES:

- PRESSURE REQUIRED AFTER METER: 7" W.C.
- DISTANCES ARE APPROXIMATE

GAS DISTRIBUTION DIAGRAM

NOT TO SCALE

PLUMBING SUPPLY DIAGRAM

NOT TO SCALE

PLUMBING SUPPLY PLAN

1/4" = 1'-0"

Consultant:



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8 04/14/25 RTU Revision

Drawn:

Checked:

IJD

AJD

Project No.

221026

Contents:

PLUMBING PLAN
WATER & GAS

P100

1 PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK
2 BELOW AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED
3 CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN
4 FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO
5 EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE
6 WALL AT POINT OF DISCHARGE AT 8" AFF.

7 PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 2/P700.

8 COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA
9 TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA
10 BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF
11 THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY
12 SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND
13 PROVIDE TERMINATION PER DETAIL 12/P700.

14 NOT USED.

15 PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE
16 DISCHARGE TO THE FLOOR SINK.

17 PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.

18 SEE CIVIL UTILITY PLAN FOR LOCATION OF EXISTING GREASE INTERCEPTOR GI-1 AND FOR
19 CONTINUATION OF 4" GREASE WASTE PIPE TO GI-1

20 SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" SANITARY SEWER. FIELD VERIFY EXACT LOCATION
21 OF EXISTING LINE STUBBED INTO SPACE.

22 PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR
23 GAP.

24 PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE
DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS
POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.

TRIM TRENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO
INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE
SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.

EXISTING 2" VENT STUBBED INTO SPACE FOR GREASE INTERCEPTOR GI-1. SEE CIVIL UTILITY PLAN FOR
GI-1 LOCATION.

DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS
REQUIRED ON THESE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION
MANAGER.

PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS
CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.

PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR DRAIN CONCEALED IN THE WALL AS SHOWN IN
DETAIL 9/P700.

PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.

INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK.
HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT
THE FLOOR SINK.

PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700.

SEE DETAIL 19/P700 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL
DRAIN.

NOT USED.

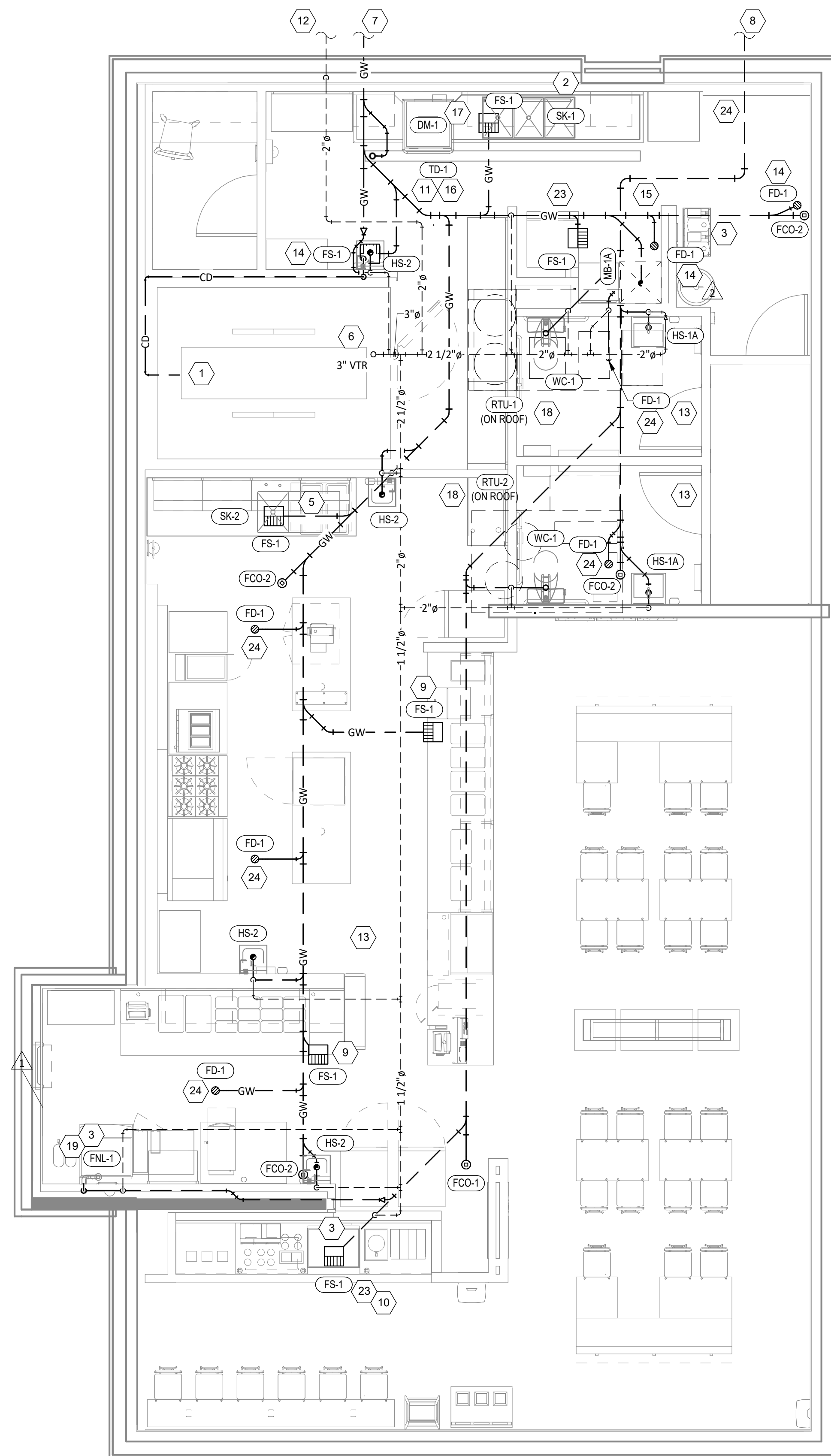
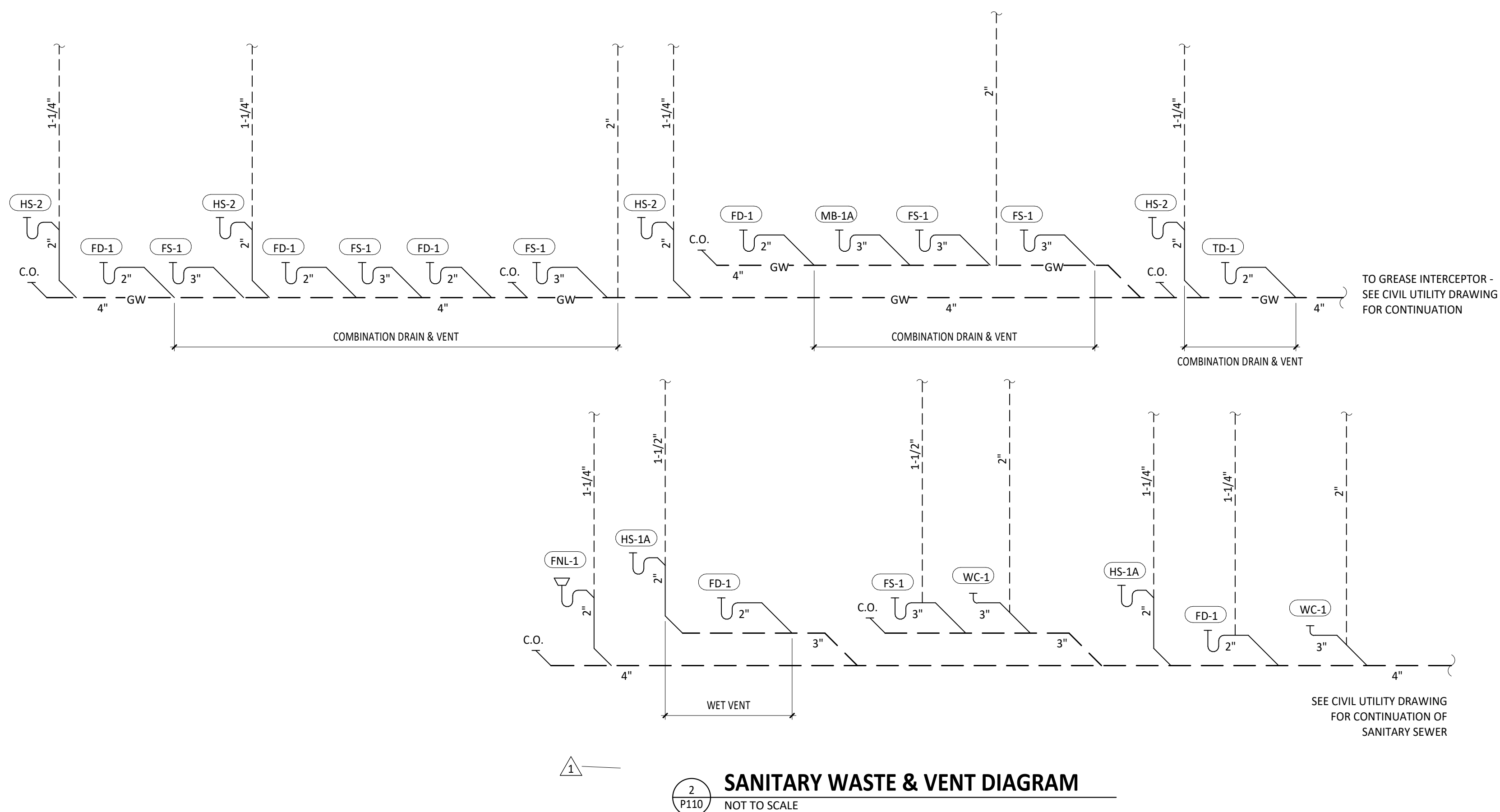
NOT USED.

NOT USED.

PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S
INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE
FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.

PROVIDE DCW CONNECTION TO FLOOR DRAIN TRAP PRIMER PER DETAIL 18/P700.

PLUMBING FIXTURE WASTE CONNECTIONS					
TAG	DESCRIPTION	CONNECTION SIZE - WASTE	DFU	COUNT	TOTAL DFU
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	5/8"	7	1	7
FCO-1	FLOOR CLEANOUT (3")	3"	0	1	0
FCO-2	FLOOR CLEANOUT (4")	4"	0	4	0
FD-1	FLOOR DRAIN	2"	2	7	14
FNL-1	FUNNEL DRAIN	2"	2	1	2
FS-1	FLOOR SINK	3"	5	7	35
GI-1	GREASE INTERCEPTOR	4"	0	1	0
HS-1A	RESTROOM HAND SINK	2"	1	2	2
HS-2	KITCHEN HAND SINK	2"	1	4	4
MB-1A	MOP BASIN	3"	2	1	2
SK-1	THREE COMPARTMENT SINK	2"	0	1	0
SK-2	PREP SINK	2"	0	1	0
TD-1	TRENCH DRAIN	2"	2	1	2
WC-1	WATER CLOSET	3"	4	2	8
GRAND TOTAL					76



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<u>06/26/2023</u>	DB Updates
<u>09/16/2024</u>	Client Revisions

Drawn:	Checked:
IJD	AJD

Project No.
221026

Contents:

PLUMBING PLAN
WASTE & VENT

P110

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[illegible]

Project No.

contents:

P600

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	COUNT	CONNECTION SIZE			WATER SUPPLY FIXTURE UNITS			DRAINAGE
				MANUFACTURER	MODEL			CW	HW	WASTE	CW	HW	TOTAL	
BFP-1	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			0	0	0	
BFP-2	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-207	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE AND AIR GAP FITTING	1	1 1/2"			0	0	0	
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	KES	GC	SEE ARCH	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	1	0"	1/2"	5/8"	0	3	3	7
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1	3/4"			0		0	
FB-1	GAS FRYER	KES	GC	SEE ARCH	--		1							
FCO-1	FLOOR CLEANOUT (3")	GC	GC	SIOUX CHIEF	852-3PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	1			3"				0
FCO-2	FLOOR CLEANOUT (4")	GC	GC	SIOUX CHIEF	852-4PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	4			4"				0
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN WITH PVC BODY, ROUND POLISHED METAL RING AND STRAINER, AND TRAP PRIMER PORT	7	1/2"		2"				2
FNL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3823T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET	1			2"				2
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	7			3"				5
GI-1	GREASE INTERCEPTOR	EXG.	EXG.	CUSTOM	--	1,500 GALLON PRECAST GREASE INTERCEPTOR	1			4"				0
GR-1	GAS GRIDDLE	KES	GC	SEE ARCH	--		1							
HB-1	CHEMICAL DISPENSER HOSE BIB	KES	GC	SEE ARCH	--	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE. FAUCET HAS FEMALE NPT INLETS.	2	1/2"	1/2"		2.25	2.25	3	
HB-2	VEGETABLE WASH HOSE BIB	KES	GC	SEE ARCH	--	SILL FAUCET WITH NPT FEMALE INLET	1	1/2"			1.5		1.5	
HS-1A	RESTROOM HAND SINK	GC	GC	AMERICAN STANDARD	9024.001EC	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN 21231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. APPROVED ALTERNATE: KOHLER K-2084	2			2"				1
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	SEE ARCH	--	METERED FAUCET WITH 0.5 GPM AERATOR AND FURNISHED WITH THERMOSTATIC MIXING VALVE. ADJUST FAUCET FOR 30 SECOND RUN TIME.	2	1/2"	1/2"		1.5	1.5	2	
HS-2	KITCHEN HAND SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	4	1/2"	1/2"	2"	1.5	1.5	2	1
IM-1	ICE MAKER - BOH	KES	KES	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN (STANDARD CAPACITY REMOTE AIR COOLED)	1	1/2"			1		1	
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (INTEGRAL AIR COOLED)	1	1/2"			1		1	
IM-3	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (REMOTE AIR COOLED)	1	1/2"			1		1	
MB-1A	MOP BASIN	GC	GC	FIAT	MSB2424	PROVIDE 24"x24"x10" MOLDED-STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.	1			3"				2
MB-1B	MOP SINK FAUCET	KES	GC	SEE ARCH	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, WALL BRACE, AND NPT FEMALE INLETS	1	1/2"	1/2"		2.25	2.25	3	
PF-1	SPEED FILL FAUCET	KES	GC	SEE ARCH	--	WALL-MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND NPT FEMALE INLET	1	3/8"			1.5		1.5	
RC-1	RICE COOKER	KES	GC	SEE ARCH	--		1							
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	1	3/4"			1		1	
RN-1	6 BURNER RANGE	KES	GC	SEE ARCH	--		1							
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	SPS	SPS	SEE ARCH	--	SODA CARBONATOR(S) SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.	1	1/2"			1		1	
SK-1	THREE COMPARTMENT SINK	KES	GC	SEE ARCH	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1	1/2"	1/2"	2"	3	3	4	0
SK-2	PREP SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1	3/4"	3/4"	2"	3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	ZURN	Z886 8601 8602	6" X 160" HDPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL ON SHEET P700 FOR REDUCTION TO 2" DRAIN CONNECTION.	1			2"				2
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTERGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	2	1/2"						

TAG	DESCRIPTION	NATURAL GAS		ELECTRICAL	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		INPUT	CONNECTION SIZE	V/P/H			MANUFACTURER	MODEL	
DWH-1	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"	120/1/60	GC	GC	NAVIENT	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIENT AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIENT.COM TO LOCATE AUTHORIZED DISTRIBUTOR) USING CHIPOTLE'S NEGOTIATED RATE.
DWH-2	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"	120/1/60	GC	GC	NAVIENT	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIENT AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIENT.COM TO LOCATE AUTHORIZED DISTRIBUTOR) USING CHIPOTLE'S NEGOTIATED RATE.

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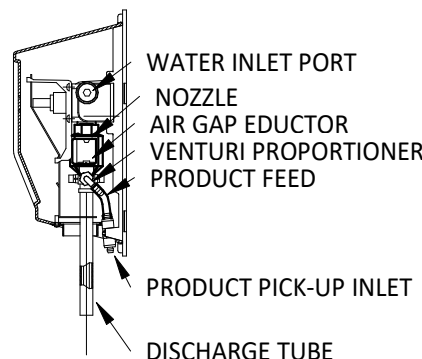
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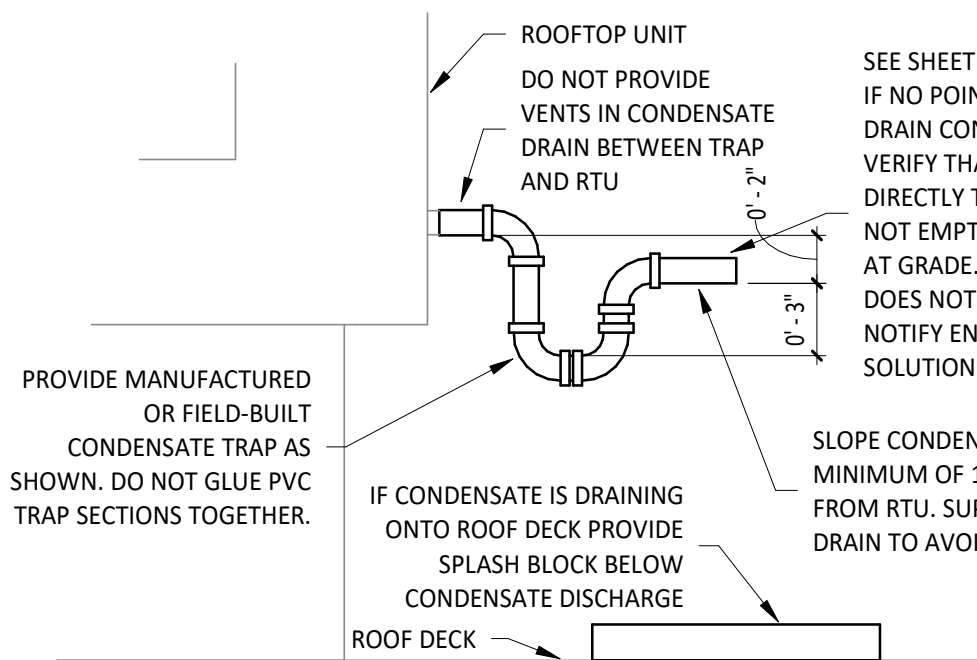
PLUMBING DETAILS

P700



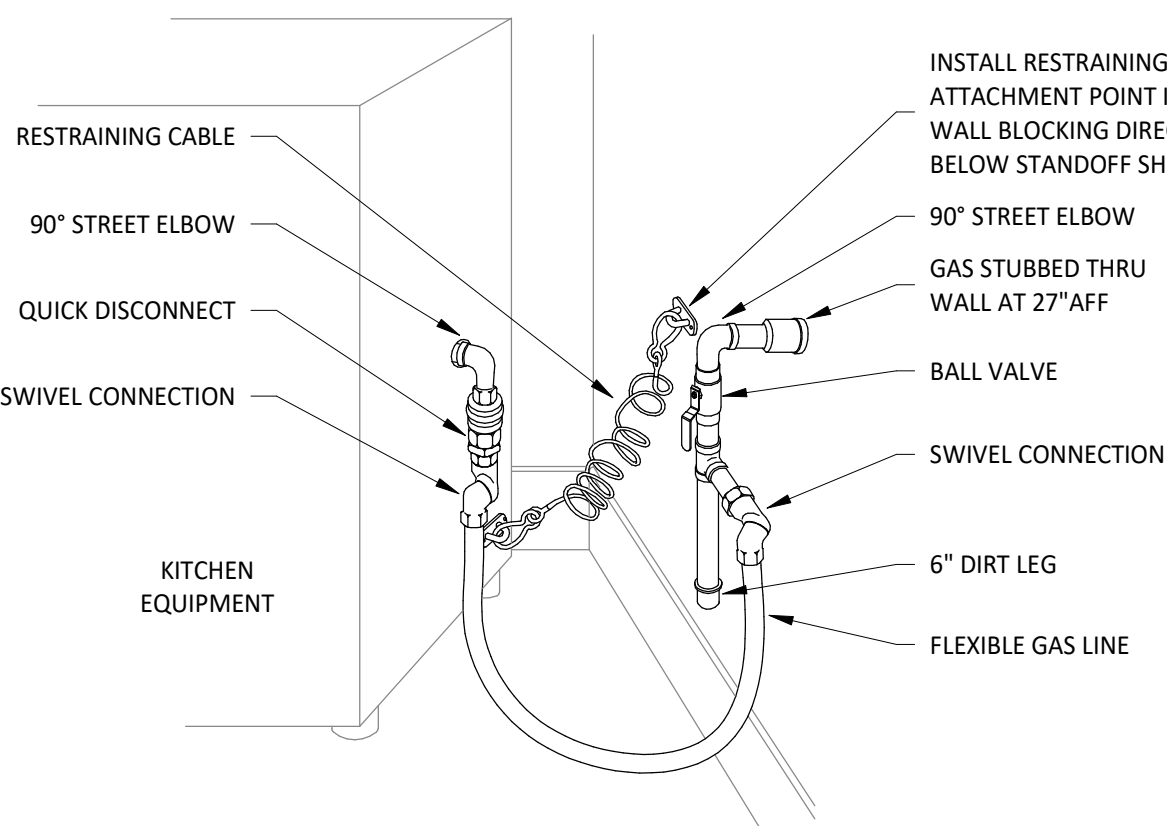
CHEMICAL DISPENSER DETAIL

10
P700
NOT TO SCALE



RTU CONDENSATE TRAP DETAIL

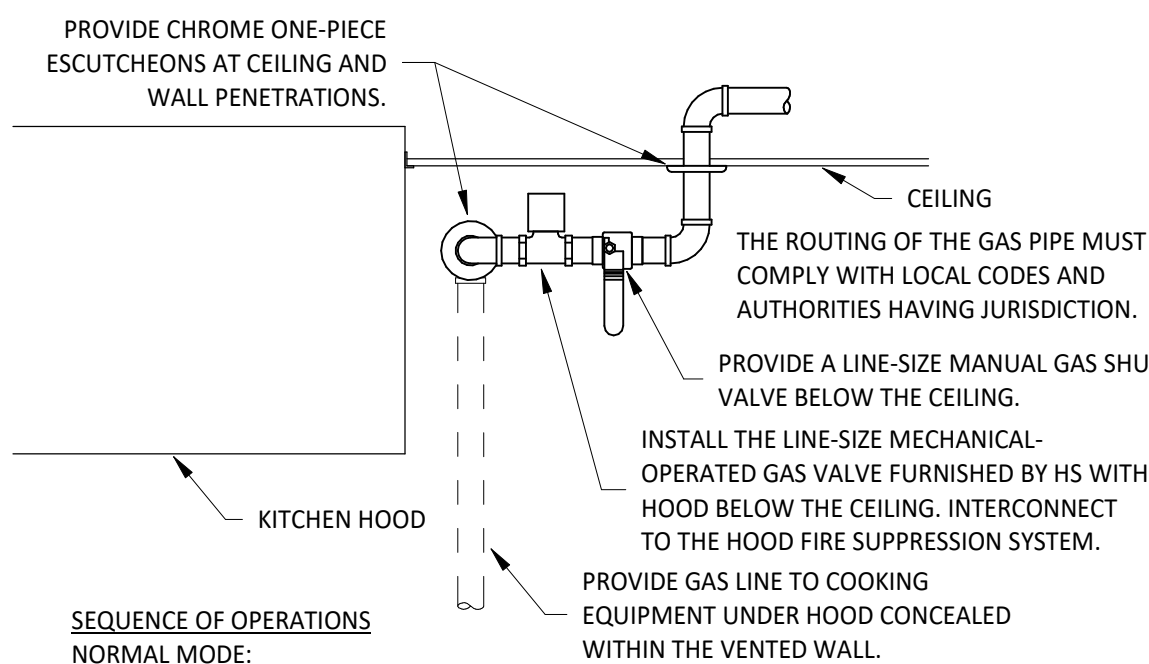
13
P700
NOT TO SCALE



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION.

KITCHEN GAS EQUIPMENT DETAIL

7
P700
NOT TO SCALE

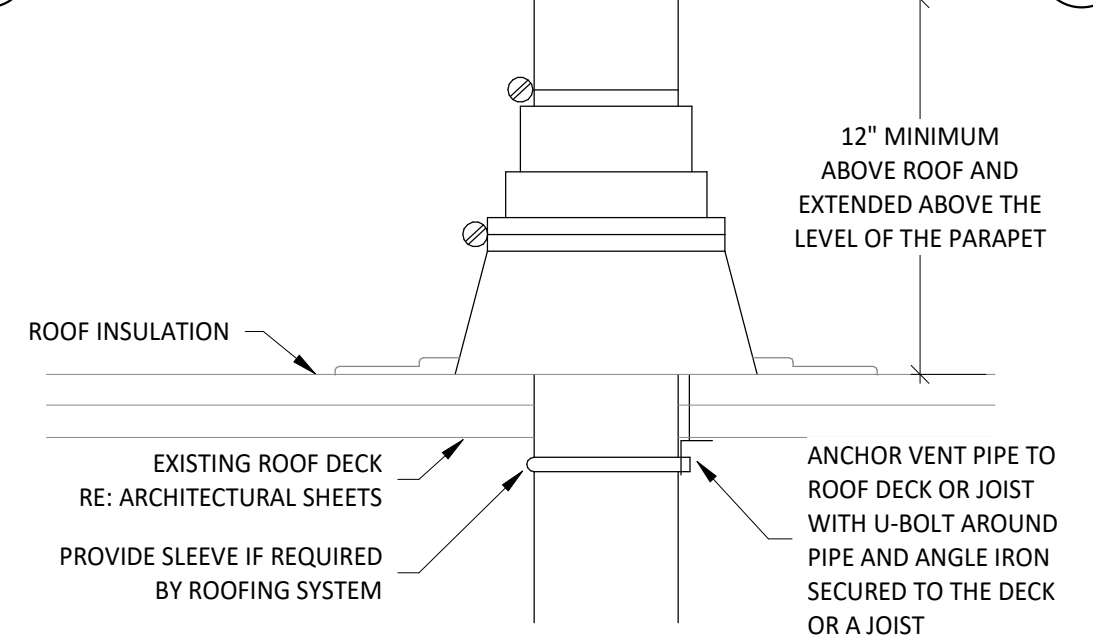


SEQUENCE OF OPERATIONS

- NORMAL MODE:
- DURING NORMAL OPERATION THE GAS SHUT-OFF VALVE SHALL BE OPEN.
- EMERGENCY MODE:
- UPON ACTUATION OF THE HOOD FIRE SUPPRESSION SYSTEM THE GAS SHUT-OFF VALVE SHALL CLOSE.

KITCHEN GAS SHUTOFF DETAIL

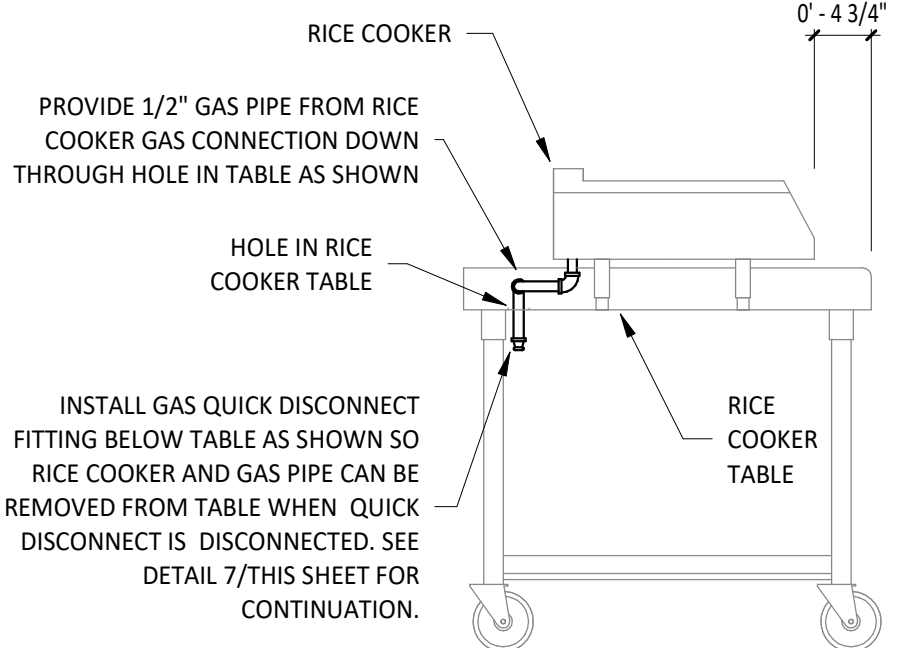
4
P700
NOT TO SCALE



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1\"/>

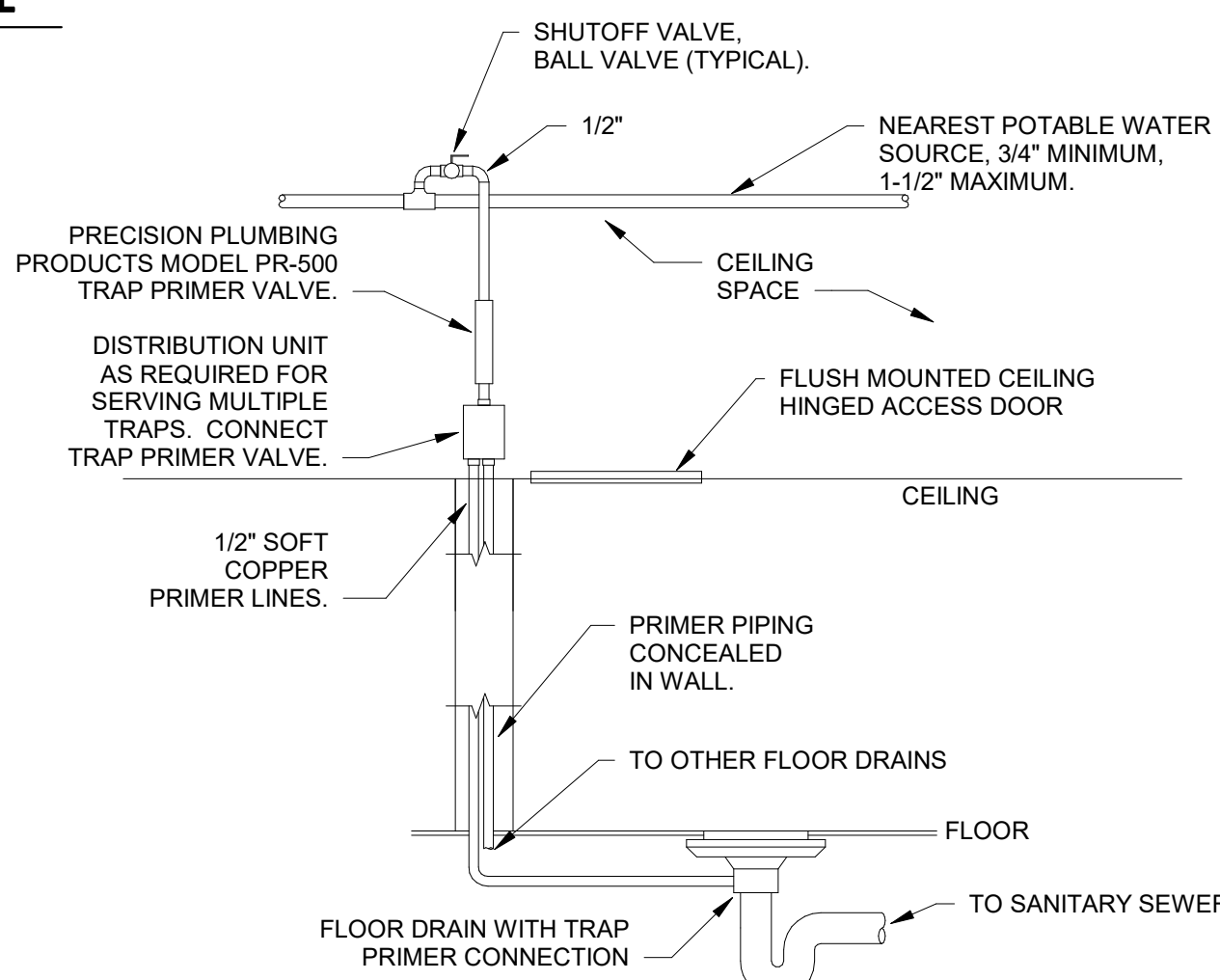
VENT THROUGH ROOF

3
P700
NOT TO SCALE



RICE COOKER GAS CONNECTION DETAIL

6
P700
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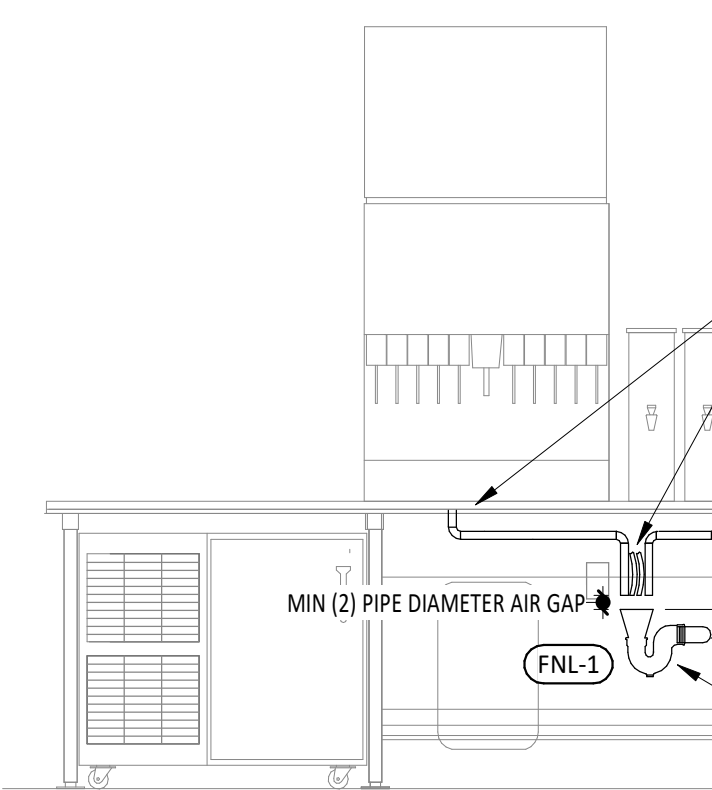


TRAP PRIMER DETAIL

18
P700
NOT TO SCALE

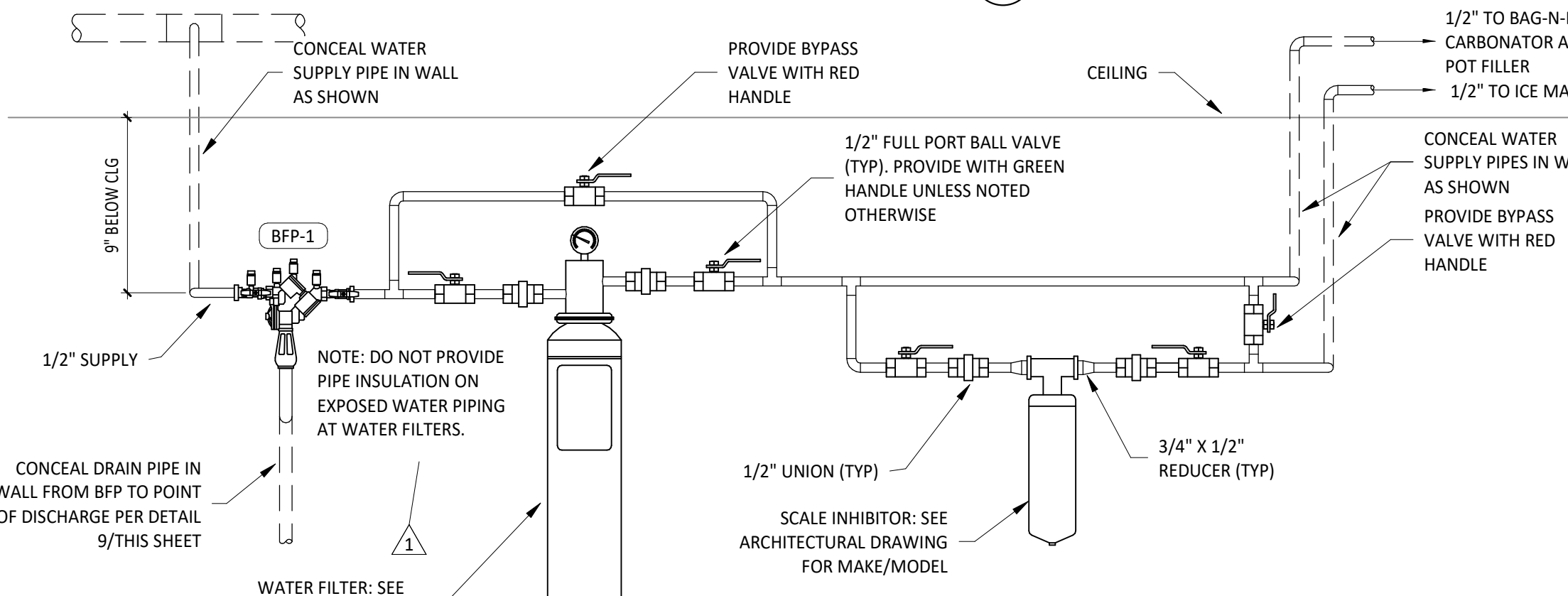
WATER SOFTENER DETAIL

16
P700
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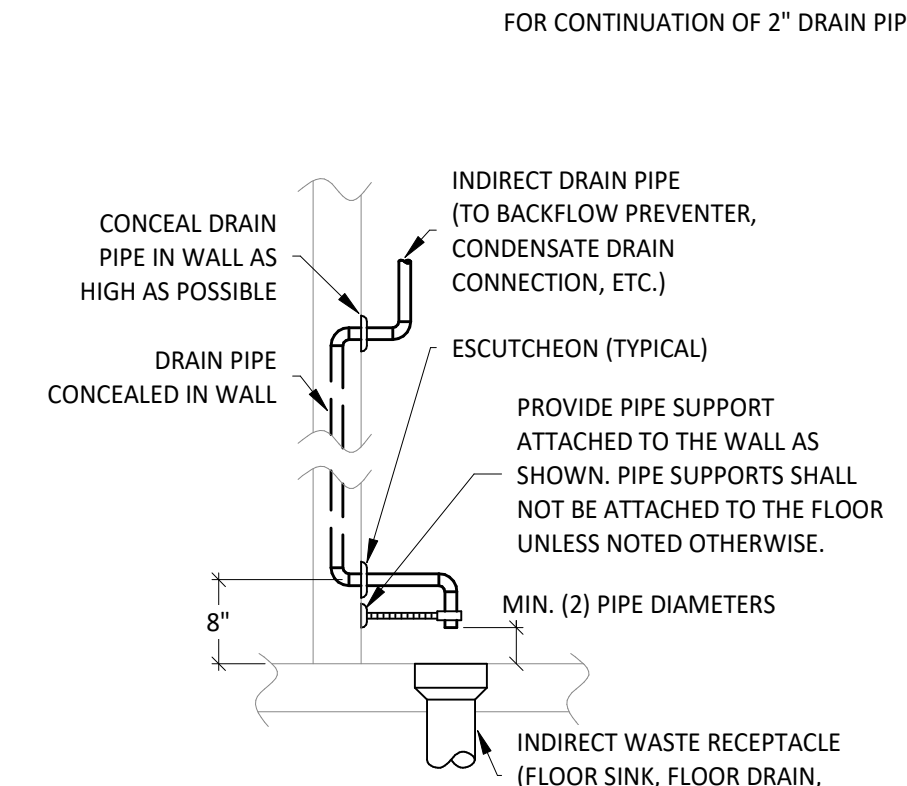
PUW FUNNEL DRAIN DETAIL

19
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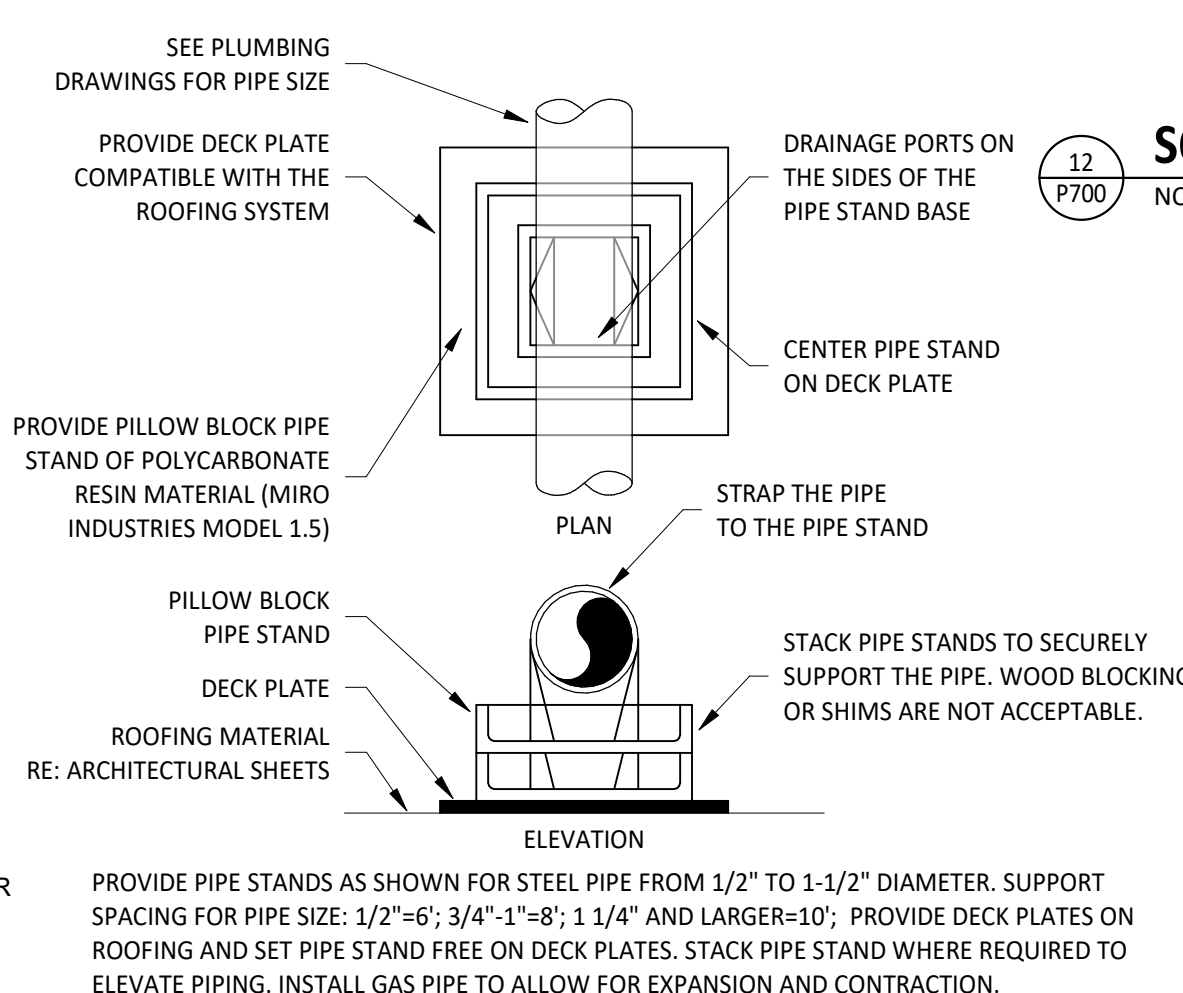
WATER FILTRATION DETAIL

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P700
NOT TO SCALE



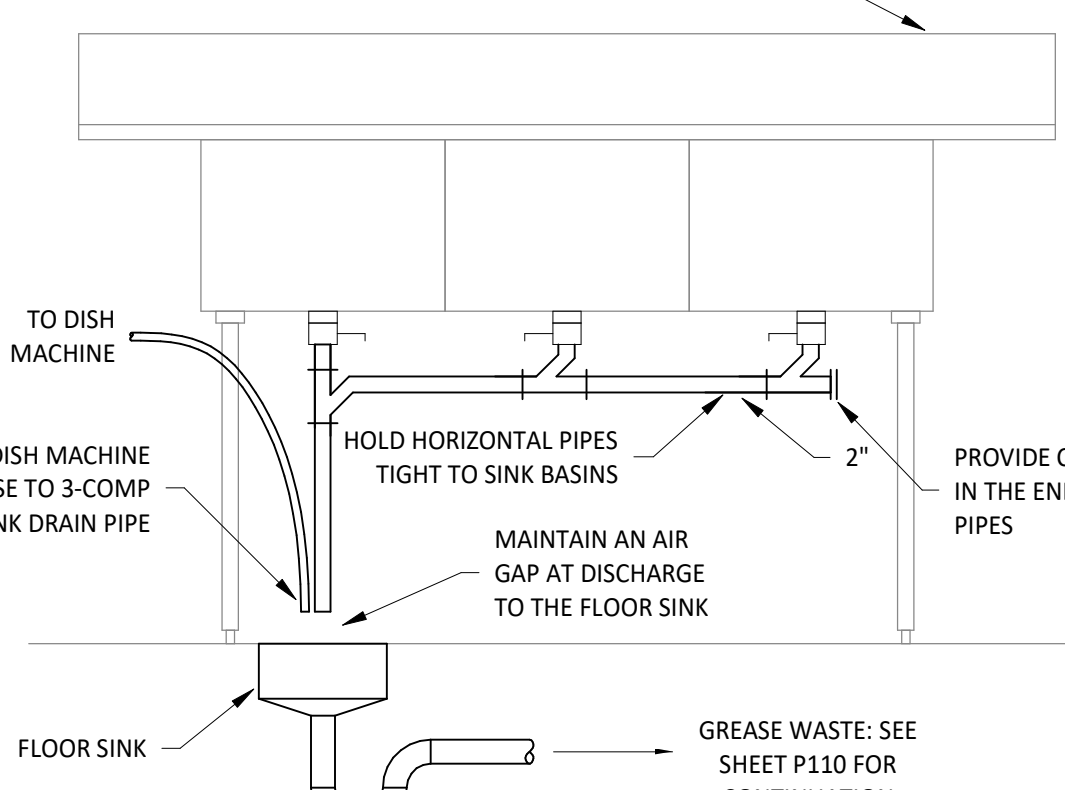
INDIRECT WASTE PIPING DETAIL

9
P700
NOT TO SCALE



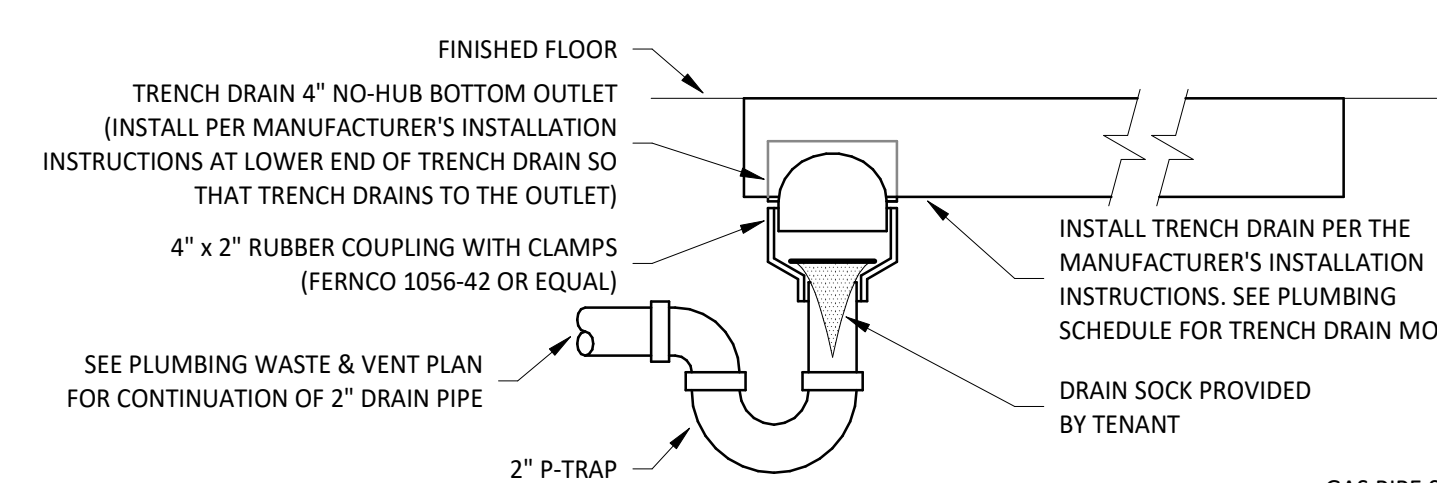
ROOFTOP PIPING SUPPORT

5
P700
NOT TO SCALE



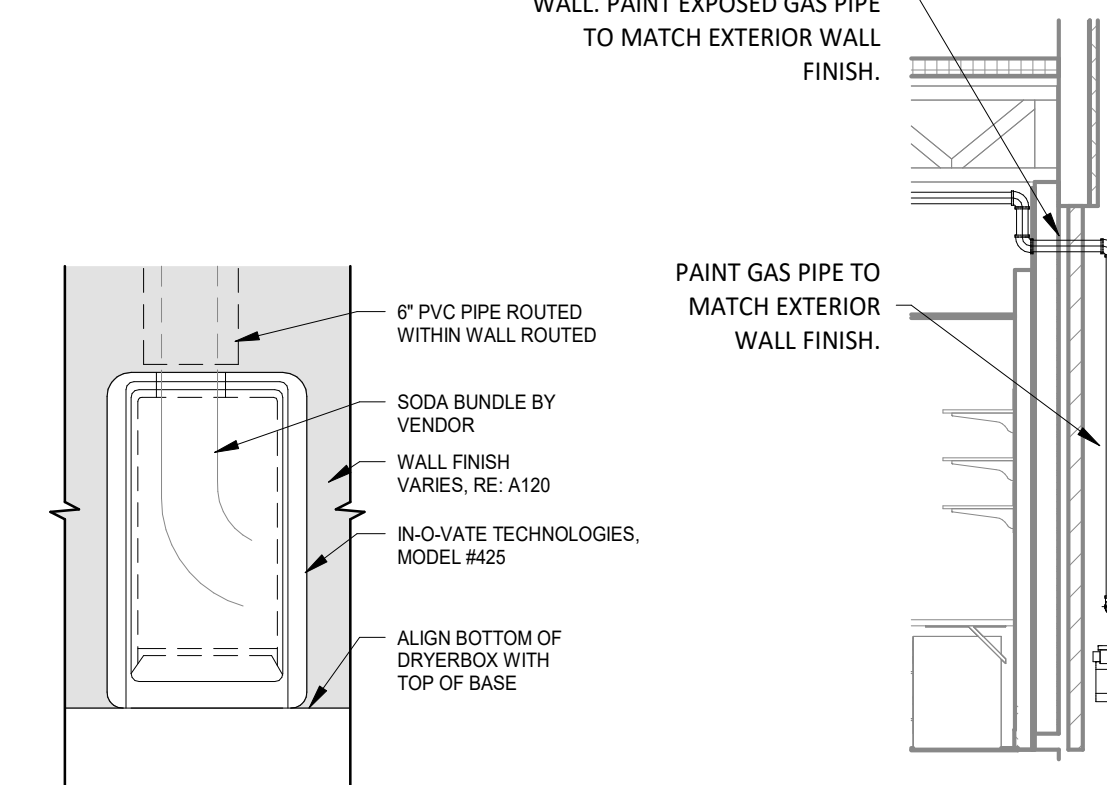
WARE-WASHING SINK DETAIL

2
P700
NOT TO SCALE



TRENCH DRAIN DETAIL

15
P700
NOT TO SCALE

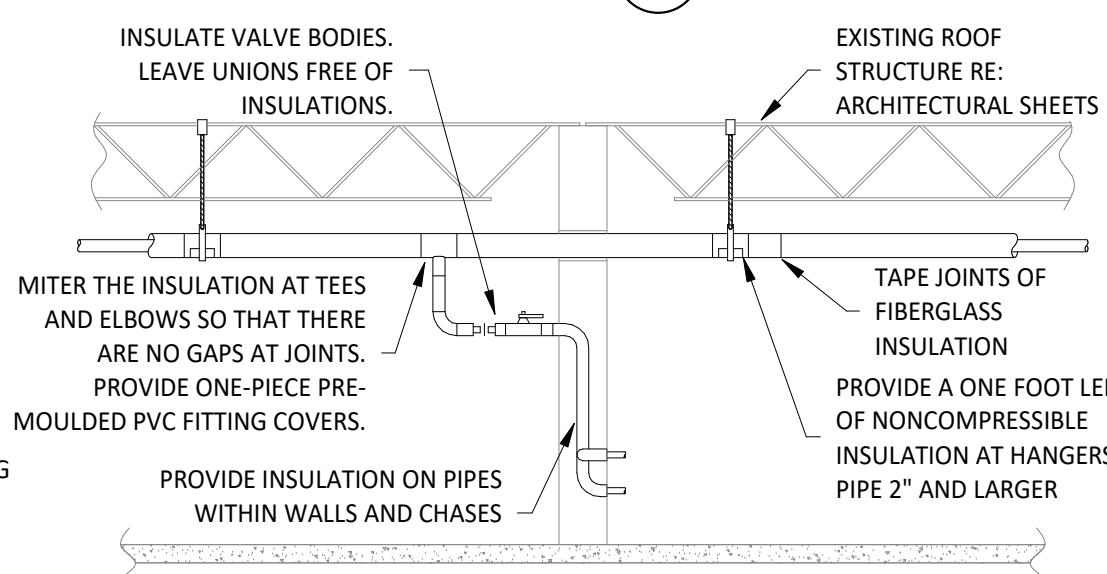


SODA TERMINATION DETAIL

12
P700
NOT TO SCALE

GAS METER SECTION

17
P700
NOT TO SCALE



PIPE INSULATION DETAIL

8
P700
NOT TO SCALE

WATER HEATER DETAIL NOTES

- PROVIDE TWO 90° ELBOWS AND A SCREEN FOR THE FLUE TERMINATION THROUGH THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. UNLESS NOTED OTHERWISE PROVIDE PREFORMED GLASS FIBER PIPE INSULATION WITH PRE-MOLDED PVC JACKETS, SLEEVES, AND FITTING COVERS ON EXPOSED WATER PIPE SO THAT EXPOSED WATER PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.
- PROVIDE TWO 90° ELBOWS AND A SCREEN FOR THE FLUE TERMINATION THROUGH THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. UNLESS NOTED OTHERWISE PROVIDE PREFORMED GLASS FIBER PIPE INSULATION WITH PRE-MOLDED PVC JACKETS, SLEEVES, AND FITTING COVERS ON EXPOSED WATER PIPE SO THAT EXPOSED WATER PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.
- ROUGH-IN COLD, HOT, AND RECIRC PIPES AT 64\"/>

WATER HEATER DIP SWITCH SETTINGS

- RECIRCULATION MODE: INTERNAL W/ INTELLIGENT PREHEATING
- DISPLAY TEMPERATURE UNIT: FAHRENHEIT
- WELL PUMP: DO NOT USE WELL PUMP
- DHW STORAGE TANK: DO NOT USE
- LINE ALARM: 6 MONTH ALERT
- HIGH ALTITUDE: BASED ON PROJECT ALTITUDE

RECIRCULATION VALVE SETTING

- SET INTERNAL RECIRCULATION VALVE TO "EXT".

OTHER SETTINGS

- CONNECT WATER HEATERS TOGETHER AS A CASCADE SYSTEM. KIT DWH-1 AS MASTER AND DWH-2 AS SLAVE.

WATER HEATER GENERAL NOTES

- CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURN-OVER OF THE BUILDING TO THE TENANT.
- INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
- MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLE MATERIALS.
- ADJUST WATER HEATER TO A SETPOINT OF 120°F.

WATER HEATER DETAIL

1
P700
NOT TO SCALE

LIGHTING CONTROL PANEL SCHEDULE: LCP

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	32	KITCHEN B	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3			SPARE					SINGLE POLE (NC)
R4	A	30	DINING A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING B	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6	A	30	DINING DL	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R7	A	28	RESTROOM EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	42	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING CONTROL PANEL SCHEDULE NOTES

A. DUPLICATE PANEL SCHEDULE AND PERMANANTLY INSTALL WITHIN THE LIGHTING CONTROL PANEL.

LIGHTING CONTROL COMPONENTS SCHEDULE

	DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
LCP	nLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUIITY	ARP INTENC08 NLT 8FCR MVOLT HLK FM DTC CPTLE1	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
\$C	WALL-MOUNTED OVERRIDE SWITCH	1	TLS	GC	ACUIITY	nPODMA 4P	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
\$D	WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SALO6P-W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50%. IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
\$OC	WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	3	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING

LIGHTING FIXTURE SCHEDULE

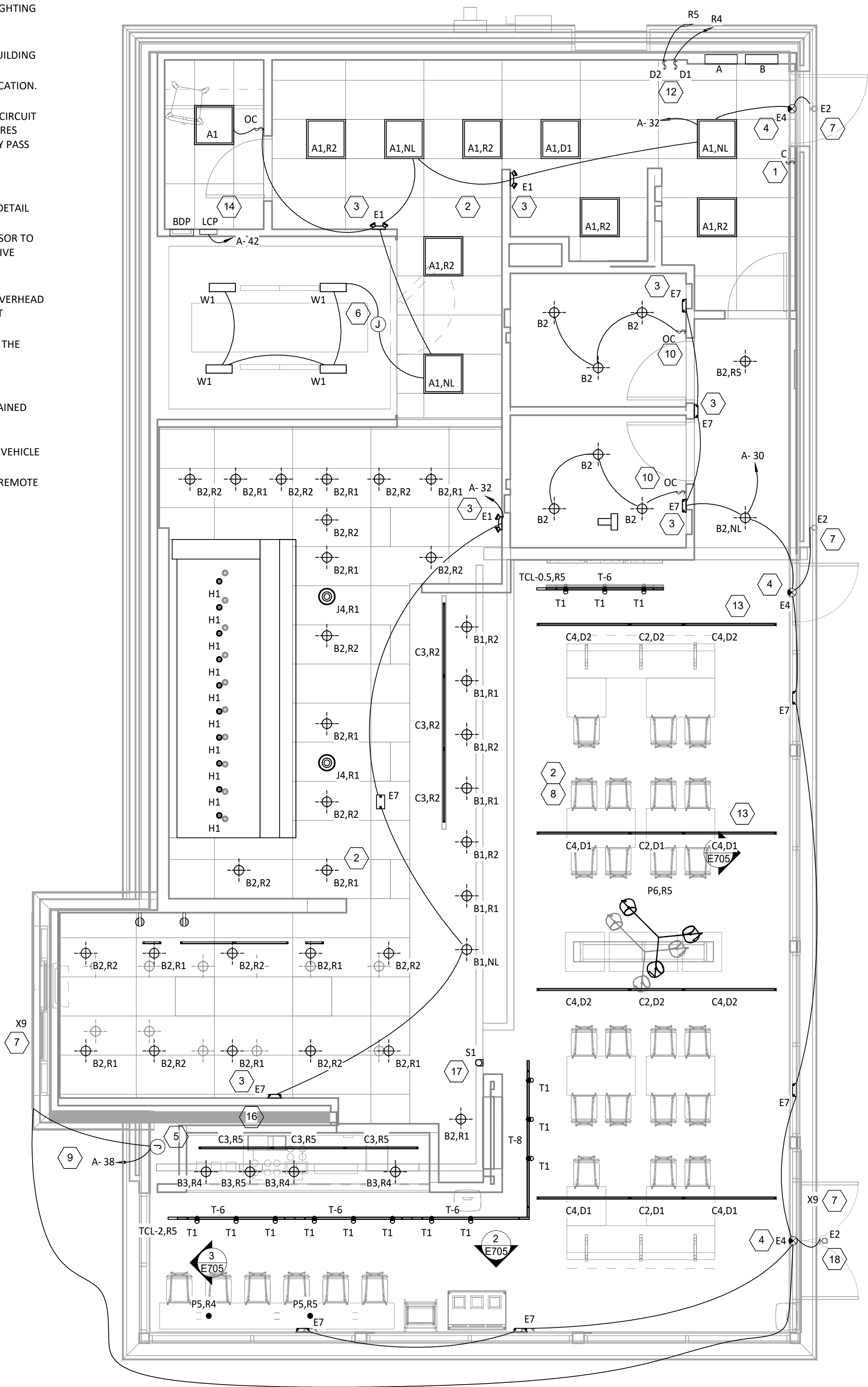
TAG	COUNT	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN			REMARKS
								MANUFACTURER	MODEL	LAMP	
A1	10	2x2 LED LENSED TROFFER	LAY-IN	120 V	30 W	TLS	GC	NORA LIGHTING	NPD0L-E22/334 W	INTEGRAL 3000K LED	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	7	RECESSED 6IN CAN LIGHT	CEILING	120 V	17 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL W/ NTM-57W/M1 TRIM	(1) 17W ECOSTORY ECO-PAR38C-17-GU24-27 K-25D LED (25"-2700K) W/ GU 24 BASE	
B2	33	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	120 V	17 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	4	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	120 V	12 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-651278B LED TRIM	INTEGRAL 3000K LED	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C0	2	LOW PROFILE LED - 1 FT	SURFACE	120 V	5 W	TLS	GC	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	6	LOW PROFILE LED - 3 FT	SURFACE	120 V	12 W	TLS	GC	HERA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	6	LOW PROFILE LED - 4 FT	SURFACE	120 V	15 W	TLS	GC	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C4	8	LOW PROFILE LED - 5 FT	SURFACE	120 V	18 W	TLS	GC	HERA LIGHTING	EL/LED/59/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	3	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	LED-90	INTEGRAL LED	90 MINUTE BATTERY BACKUP
E2	3	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	4 V	1 W	TLS	GC	EXITRONIX	MLED1-B-WP	INTEGRAL LED	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN WITH MOUNTING PLATE
E4	3	WHITE EXIT SIGN WITH EMERGENCY LIGHT -STANDARD RED LETTERS	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	CLED-U-WH	INTEGRAL LED	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	9	EMERGENCY LIGHT	VARIOUS	120 V	2 W	TLS	GC	DUAL LITE	EV2	INTEGRAL LED	90 MINUTE BATTERY BACKUP
G4	2	PATIO POLE LIGHT	GROUND	120 V	10 W	TLS	GC	RAB LIGHTING	ALED10Y W/ PS4-11-10D2 POLE	INTEGRAL LED	SEE PLAN FOR LAMP HEAD CONFIGURATION. REFER TO ARCHITECTURAL SHEETS FOR FINISH AND INSTALLATION DETAIL
H1	10	VAPOR PROOF HOOD LIGHT	SURFACE	120 V	15 W	HS/TLS	HS	FURNISHED W/ HOOD	FURNISHED W/ HOOD	(1) TCP L16A19N1527K	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	PENDANT	120 V	9 W	TLS	GC	BARNLIGHT	BLE-C-BRN-100-ASH-SB K-100-NA-GU24	GREEN CREATIVE 9A19DIM/927/GU24/R	WITH BLACK LAMP SHADE, BLACK CORD, AND OAK LAMP HOLDER
P5	2	PENDANT	PENDANT	120 V	5 W	TLS	GC	HI-LITE MFG	H-LC-91/CB12-91/20W LBL	TCP FG25D4027CCQ	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	1	DECORATIVE DINING ROOM PENDANT	PENDANT	120 V	30 W	TLS	GC	BARNLIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	HARDWIRED SET OF (3) HEADS WITH UNIVERSAL CANOPY AND STANDARD BLACK CABLES
S1	1	DRIVE-UP PICK-UP WINDOW CHIME/STROBE	WALL	16 V	0 W	TLS	GC	FEDERAL SIGNAL	SLM5008 W/ SLMBW-012-024	INTEGRAL	SET SWITCH A TO "CHIME 1 SINGLE" (11011) AND SWITCH B TO "CHIME 2 SINGLE" (00111)
T1	14	TRACK HEAD	TRACK	120 V	10 W	TLS	GC	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-6	4	TRACK (6 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 6FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
T-8	1	TRACK (8 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 8FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
TCL-0.5	1	TRACK CURRENT LIMITER (60W)	SURFACE	120 V	0 W	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
TCL-2	1	TRACK CURRENT LIMITER (240W)	SURFACE	120 V	0 W	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 2A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
W1	4	WIC LED LIGHT	SURFACE	120 V	29 W	WCS	GC	FURNISHED W/ WIC	FURNISHED W/ WIC	INTEGRAL LED	WET-RATED COOLER FIXTURE
X9	2	EXTERIOR LED CHANNEL LIGHT	SURFACE	120 V	<varies>	TLS	GC	PARADIGM LED	AMC-2410-S W/ OPAL LENS AND END CAPS	FLEXSR-45-30-67-24	FURNISHED W/ REMOTE-MOUNTED NEMA 3R LED DRIVER. SEE PLAN FOR LENGTHS.

LIGHTING FIXTURE SCHEDULE NOTES

A. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.
B. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

ELECTRICAL LIGHTING PLAN NOTES

- INSTALL WALL-MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP AS SHOWN IN DETAIL 6/E710
- FOR UNCIRCUITED LIGHT FIXTURES, CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
- WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE
- VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
- INSTALL LED DRIVERS FURNISHED WITH THE X9 LED STRIP LIGHTS ON WALL 6" ABOVE THE CEILING IN AN ACCESSIBLE LOCATION. PROVIDE LOW VOLTAGE WIRING FROM LED DRIVER TO THE X9 LIGHT FIXTURES AS SHOWN.
- INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNSWITCHED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
- EXISTING FIXTURE BY SHELL.
- PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.
- CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 6/E710.
- INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER AT 42" AFF. ADJUST OCCUPANCY SENSOR TO PROVIDE AUTOMATIC ON/AUTOMATIC OFF OPERATION WITH A FIXED TIMER OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.
- NOT USED.
- INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED AND PENDANT LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
- CONNECT DINING ROOM (RELAY CIRCUITS R4 AND R5) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
- INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.
- NOT USED.
- PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
- INSTALL CHIME/STROBE FURNISHED WITH VEHICLE DETECTION SYSTEM ON WALL 12" BELOW CEILING AND CONNECT TO VEHICLE DETECTOR SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL E2 REMOTE EMERGENCY LIGHT TO BOTTOM OF CANOPY. CONCEAL LOW VOLTAGE WIRING FROM EXIT SIGN TO REMOTE EMERGENCY LIGHT.



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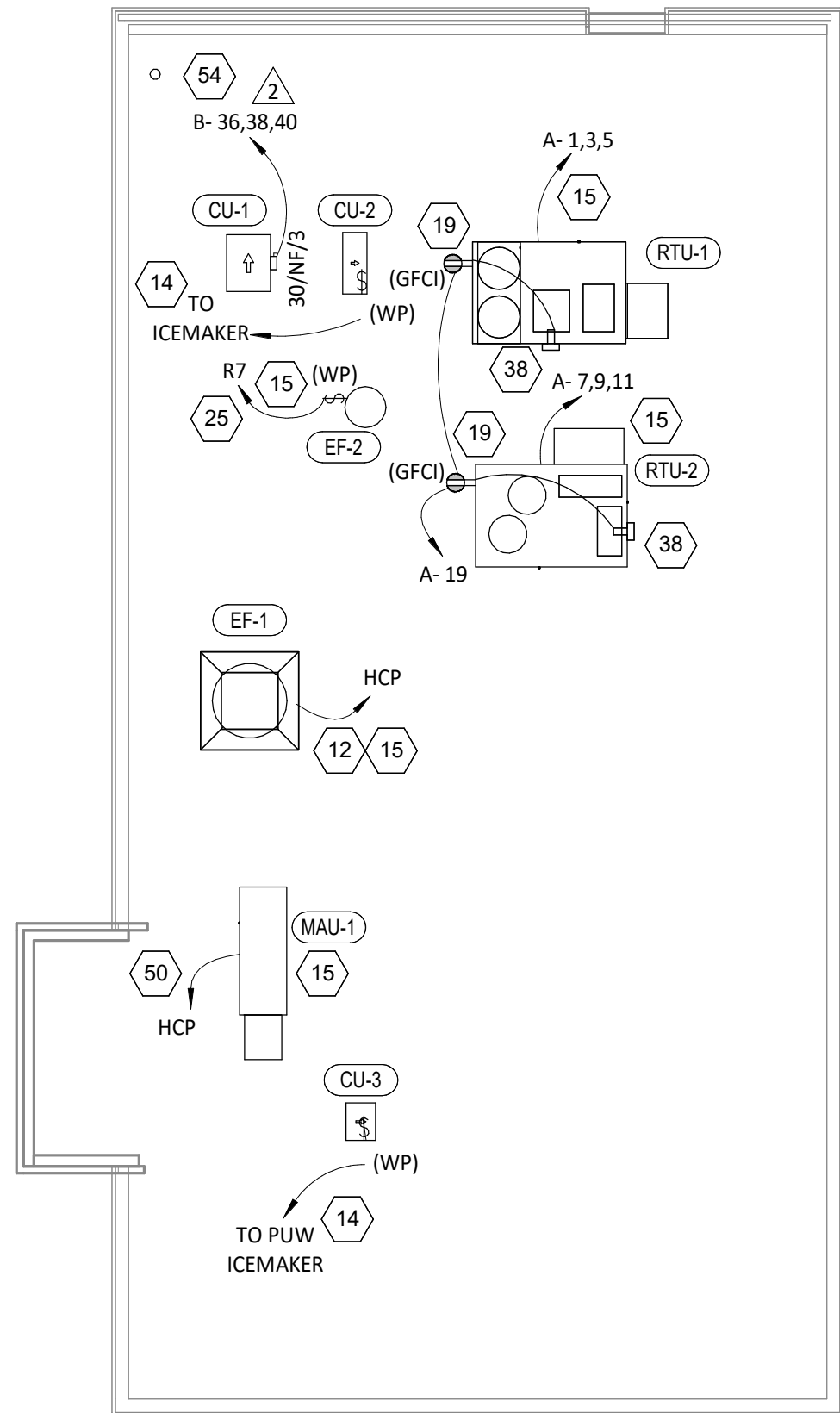
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ELECTRICAL POWER PLAN NOTES

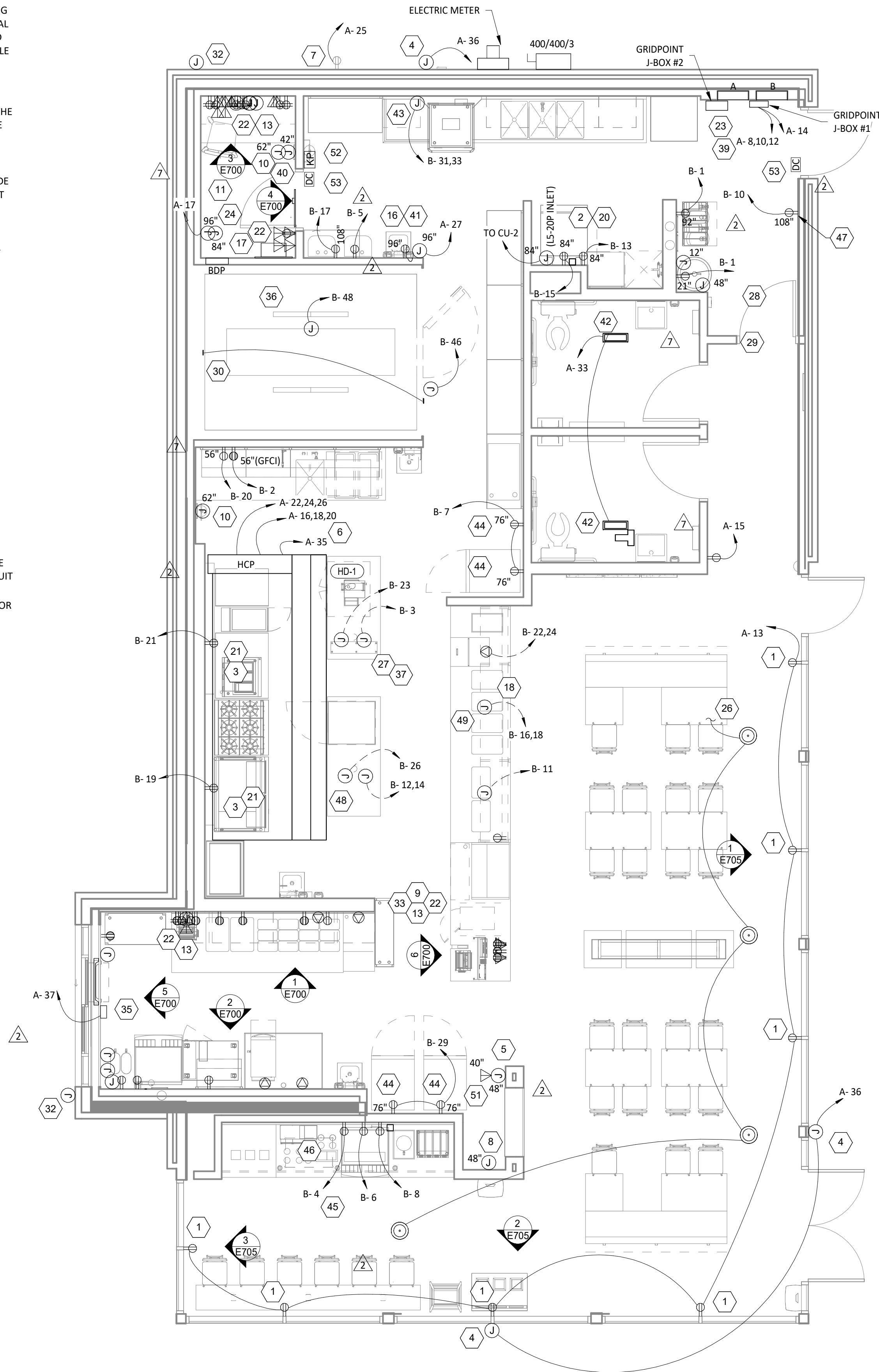
- 1
- SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E700.
- 2
- ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE L5-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 5-20P END AND ONE WITH L5-20R END, FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.
- 3
- CONNECT RECEPTACLES SERVING EQUIPMENT BELOW THE KITCHEN HOOD TO THE CIRCUITS SHOWN THROUGH THE CONTACTOR INTEGRAL TO THE HOOD CONTROL PANEL. INTEGRAL CONTACTOR SHALL BE INTERLOCKED TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLES ARE DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.
- 4
- JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710.
- 5
- PROVIDE A SINGLE GANG VERTICAL JUNCTION BOX FOR THE KITCHEN EXHAUST SUPPRESSION SYSTEM PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE KITCHEN EXHAUST SUPPRESSION SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.
- 6
- HOOD CONTROL PANEL AND KITCHEN EXHAUST SUPPRESSION SYSTEM CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 7
- EXISTING DUPLEX GFCI RECEPTACLE WITH WEATHERPROOF WHILE IN USE OUTLET COVER FOR IRRIGATION CONTROLLER.
- 8
- PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.
- 9
- COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.
- 10
- PROVIDE ROUGH-INS FOR LAUNCHPORT AS NOTED AND INSTALL LAUNCHPORT FURNISHED BY CHIPOTLE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2-1/8" DEEP OCTAGON J-BOX WITH 1-1/2" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE J-BOX TO ABOVE THE OFFICE CEILING.
- 11
- PROVIDE (2) EMPTY 2" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE AND DATA SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING.
- 12
- PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN EF-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE VIROGUARD SYSTEM IS INSTALLED.
- 13
- AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.
- 14
- PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.
- 15
- UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.
- 16
- INSTALL DOOR CHIME AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION.
- 17
- INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) CONSISTING OF THE NXT POWER-HUB AND UPS FURNISHED BY THE TENANT ON WALL 12" BELOW CEILING. INSTALL POWER-HUB AND UPS AND CONNECT POWER-HUB TO INPUT AND OUTPUT J-BOXES POER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 18
- ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- 19
- ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.
- 20
- ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.
- 21
- PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.
- 22
- LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".
- 23
- LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."
- 24
- PROVIDE TWO J-BOXES ALIGNED VERTICALLY ON WALL AS SHOWN FOR CONNECTION TO NXT POWER-HUB. CONNECT UPPER J-BOX TO CIRCUIT SHOWN FOR CONNECTION TO POWER-HUB. TERMINATE WIRING FOR DEVICES SHOWN TO BE CIRCUITED TO "BDP-1" WITHIN LOWER J-BOX FOR CONNECTION TO POWER-HUB.
- 25
- CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).
- 26
- INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN TO THE VOLUME CONTROL IN THE KITCHEN WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER 70V TAP SETTING TO BE 15 WATTS.
- 27
- PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLES IN TWO J-BOXES INTEGRAL TO PREP TABLE FOR HOT HOLDING CABINET AND GENERAL RECEPTACLE.
- 28
- PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.
- 29
- PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.

ELECTRICAL POWER PLAN NOTES

- 30
- INSTALL WALK-IN-COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE FROM DOOR AS SHOWN. ROUTE TEMPERATURE PROBE WIRE ABOVE WALK-IN COOLER CEILING PANELS, SEAL PENETRATIONS THROUGH THE CEILING PANELS, AND SECURE VERTICAL PROBE WIRE TIGHT TO WALLS. NO EXCESS PROBE WIRE SHALL BE WITHIN THE WALK-IN COOLER.
- 31
- NOT USED.
- 32
- PROVIDE 4" SQUARE J-BOX ON EXTERIOR WALL FOR MOUNTING OF EXTERIOR CAMERA. SEE ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM J-BOX TO ABOVE LAY-IN CEILING AREA IN KITCHEN. J-BOX SHALL NOT BE SURFACE MOUNTED. BASE OF CAMERA SHALL BE MOUNTED FLUSH TO EXTERIOR WALL FINISH.
- 33
- PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.
- 34
- NOT USED.
- 35
- INSTALL VEHICLE DETECTOR SYSTEM FURNISHED BY TLS SURFACE-MOUNTED ON WALL IN ACCESSIBLE LOCATION ABOVE CEILING AND CONNECT TO STROBE/CHIME AND DETECTOR LOOP PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE FINAL ADJUSTMENTS TO LOOP SENSITIVITY PER THE MANUFACTURER'S INSTRUCTIONS. ONCE ALL COMPONENTS ARE INSTALLED AND OPERATIONAL THE CHIME/STROBE LIGHT SHOULD STAY ILLUMINATED AND THERE SHOULD BE A SINGLE CHIME WHEN A VEHICLE DRIVES OVER OR STOPS ON LOOP.
- 36
- SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
- 37
- PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.
- 38
- INSTALL TRANSFORMER FURNISHED BY TUY WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE KITU PER DETAIL 6/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.
- 39
- PROVIDE (2) 10"x10"x4" JUNCTION BOXES (J-BOX #1/J-BOX #2) ON THE WALL ABOVE PANELBOARDS 6" BELOW THE LAY-IN CEILING AND MOUNTED ADJACENT TO EACH. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 8/E710. TEMS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT IOM/HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.
- 40
- PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/E710.
- 41
- INSTALL WIRED DOOR BUZZER AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION. CONNECT TO CIRCUIT SHOWN THROUGH THE TRANSFORMER FURNISHED WITH THE DOOR BUZZER. PROVIDE WIRING TO A BUTTON ADJACENT TO THE SERVICE DOOR AND CONNECT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 42
- CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.
- 43
- PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/E710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 44
- PROVIDE RECEPTACLE FOR 2-DOOR AND 1-DOOR REFRIGERATORS WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.
- 45
- PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.
- 46
- LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMS8", AND "SODA FOUNTAIN".
- 47
- LABEL RECEPTACLE "UV INSECT TRAP".
- 48
- PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLE IN THE J-BOX INTEGRAL TO PREP TABLE FOR UNDERCOUNTER REFRIGERATOR. PROVIDE FINAL CONNECTION TO CARVING STATION HEATER.
- 49
- IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.
- 50
- PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE FROM MAU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 51
- PROVIDE HORIZONTAL SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.
- 52
- PROVIDE A RECESSED J-BOX AT 56" AFF FOR THE INSTALLATION OF THE SECURITY SYSTEM KEYPAD WITH A 1/2" CONDUIT TO ABOVE THE LAY-IN CEILING. TERMINATE CONDUIT WITH A CONDUIT BUSHING.
- 53
- PROVIDE A RECESSED SINGLE-GANG J-BOX ABOVE DOOR AND 3" IN FROM LATCH SIDE OF DOOR FOR THE INSTALLATION OF THE SECURITY SYSTEM DOOR CONTACT WITH A 1/2" CONDUIT TO ABOVE THE LAY-IN CEILING. TERMINATE CONDUIT WITH A CONDUIT BUSHING.
- 54
- PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD EVEN WITH TOP OF PARAPET FOR FUTURE CELL BOOSTER. SECURE CONDUIT TO STRUCTURE TO SUPPORT FUTURE ANTENNA INSTALLATION. PROVIDE 1/4" X 2" X 10" 16-HOLE GROUNDING BUSBAR (BURNDY 88B14210A OR EQUAL) MOUNTED TO CONDUIT ABOVE ROOF FOR FUTURE CONNECTION OF LIGHTNING ARRESTORS. PROVIDE #2 CU GROUND FROM BUSBAR TO MAIN ELECTRODE GROUNDING CONDUCTOR.



2
E110
1/8" = 1'-0"



1
E110
1/4" = 1'-0"

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IJD	AJD

Project No.
221026

Contents:

ELECTRICAL POWER
PLAN

E110

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Contents:

ELECTRICAL SITE
POWER PLAN

E115

ELECTRICAL POWER PLAN NOTES

- CONNECT PATIO LIGHT FIXTURES TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 5/E710.
- INSTALL VEHICLE DETECTION LOOP FURNISHED BY TLS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALIGN DETECTOR LOOP TO BE CENTERED ON THE PICK-UP WINDOW.
- NOT USED.
- CONNECT DIRECTIONAL SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
- PROVIDE EMPTY CONDUIT WITH PULL STRING TO CLEARANCE BAR. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
- CONNECT MONUMENT SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
- EXISTING 1" SPARE LOW VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
- EXISTING 1" SPARE LINE VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
- EXISTING INTERIOR J-BOXES AT 11'-0" AFF FOR LINE VOLTAGE AND LOW VOLTAGE SITE WIRING. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.

GENERAL NOTES

- WORK AND MATERIALS SHALL BE COMPLIANT WITH THE NEC AND REQUIREMENTS OF THE AHJ.
- CONDUCTORS AND CONNECTIONS BELOW GRADE, EVEN WHERE WITHIN CONDUITS OR ENCLOSURES, SHALL BE SUITABLE FOR WET LOCATIONS.
- PROVIDE PULL STRING IN EMPTY CONDUITS.
- SEAL ENDS OF CONDUITS STUBBED UP ABOVE GRADE TO PROTECT FROM THE ELEMENTS.

RESPONSIBILITY	
DEVICE OR CONDUIT	CONNECTION OR CONDUCTORS

TAG	DESCRIPTION	DEVICE OR CONDUIT	CONNECTION OR CONDUCTORS
1	VEHICLE DETECTOR LOOP - 6"x4" WITH 4 TURNS (EMX PR-46-XX). VERIFY LENGTH OF LEAD-IN WIRE PRIOR TO ORDERING TO ALLOW WIRE TO REACH VEHICLE DETECTOR WITHOUT SPLICING. SEE SITE PLAN FOR LOCATIONS.	SHELL	GC
2	1" CONDUIT FROM VEHICLE DETECTOR LOOP LOCATION TO LOW VOLTAGE J-BOX.	SHELL	GC
3	1" CONDUIT FROM ANNOUNCE SIGN LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	SHELL	GC
4	1" CONDUIT FROM CLEARANCE BAR LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	SHELL	N/A
5	1" CONDUIT FROM SITE DIRECTIONAL SIGNAGE AND/OR MONUMENT SIGN LOCATION(S) TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATIONS AND NUMBER OF ROUGH-IN LOCATIONS.	SHELL	GC
6	1" CONDUIT FROM SITE LIGHTING FIXTURE(S) TO LINE VOLTAGE J-BOX. SITE LIGHTING FIXTURES CAN BE DAISY-CHAINED.	SHELL	GC
7	LINE VOLTAGE J-BOX - MINIMUM 6"x6"x4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	SHELL	GC
8	LOW VOLTAGE J-BOX - MINIMUM 6"x6"x4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	SHELL	GC
9	1" SPARE CONDUIT FROM LOW VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	SHELL	GC
10	1" SPARE CONDUIT FROM LINE VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	SHELL	GC

SITE CONDUIT DETAIL

NOT TO SCALE

POWER SITE PLAN

1/8" = 1'-0"

6

1

VOLTS: 208/120V Wye

PHASES: 3

WIRES: 4

MOUNTING: Recessed

ENCLOSURE: Type 1

PANEL: A

MAINS: MCB

AMPERAGE: 400 A

MCB RATING: 400 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #	
1	AIR CONDITIONER - KITCHEN (RTU-1) (3-#6, #10 G. IN 1" C.)	60	3	HACR	48.3	C	5.8	0.0		-	0.0		3	60	TVSS (4-#6, #10 G. IN 1" C.)	2	
3								5.8	0.0							4	
5									5.8							0.0	6
7							6.4	0.0									8
9	AIR CONDITIONER - DINING ROOM (RTU-2) (3-#6, #10 G. IN 1" C.)	60	3	HACR	53.0	C		6.4	0.0	G	0.0		3	20	GRIDPOINT 3 PHASE METER (4-#12, #12 G. IN 3/4" C.)	10	
11									6.4							0.0	12
13																	
15	RECEPTACLES - STOREFRONT Receptáculos - Frente del restaurante	20	1		10.5	G	1.3	0.2		G	1.5		1	20	GRIDPOINT TRANSFORMER	16	
17	RECEPTACLES - DINING Receptáculos - Comedor	20	1		1.5	G		0.2	1.2							18	
19	PANEL BDP	15	1		12.8	G			1.5	1.2	E	10.1	3	30	HOOD EXHAUST FAN (EF-1) (3-#10, #10 G. IN 3/4" C.)	20	
21	RECEPTACLES - ROOFTOP Receptáculos - Techo	20	1		3.0	G	0.4	1.2								22	
23	RECEPTACLES - POS GENERAL Receptáculos - Cajero general	20	1		6.0	G		0.7	0.7							24	
25	SECURITY/AUDIO Seguridad y audio	20	1		3.0	G			0.4	0.7	E	5.9	3	15	HOOD MAKEUP AIR FAN (MAU-1) (3-#10, #12 G. IN 3/4" C.)	26	
27	IRRIGATION CONTROLLER	20	1		1.5	F	0.2	0.7								28	
29	RECEPTACLES - OFFICE Receptáculos - Oficina	20	1	GFI	9.0	G		1.1	0.5		E	4.4	1	15	RESTROOM FAN (EF-2)	30	
31	RECEPTACLES - DMJ Receptáculos - Fax	20	1	GFI	6.0	G			0.7	0.6	A	5.2	1	20	LIGHTING - DINING ROOM Iluminación - Comedor	32	
33	SPARE	20	1	--	--		0.0	1.1			A	8.9	1	20	LIGHTING - KITCHEN Iluminación - Cocina	34	
35	BATHROOM SANITIZER Sanitizante de baño	20	1		0.2	E		0.0	0.0	--	--		1	20	SPARE	36	
37	HD-1 (CONTROL AND LIGHTS) (control y luces)	15	1		1.5	E			0.2	0.5	B	4.5	1	20	SIGN LIGHTING Iluminación para letreros	38	
39	VEHICLE DETECTOR	20	1		0.3	G	0.0	0.1		B	0.9		1	20	LIGHTING - EXTERIOR Iluminación - Exterior	40	
41	SPARE	20	1	--	--			0.0	0.7		B	5.8	1	20	SITE SIGNAGE	42	
43	SPARE	20	1	--	--				0.0	0.0	A	0.0	1	20	LIGHTING CONTROL PANEL	44	
45	SPARE	20	1	--	--		0.0	0.2		G	1.5		1	20	PICK-UP WINDOW	46	
47	SPARE	20	1	--	--			0.0	2.1				2	25	PUW AIR CURTAIN (2-#10, #10 G. IN 3/4" C.)	48	
49	SPARE	20	1	--	--		0.0	0.0			--	--	1	20	SPARE	50	
51	SPARE	20	1	--	--			0.0	0.0		--	--	1	20	SPARE	52	
53	SPARE	20	1	--	--				0.0	0.0	--	--	1	20	SPARE	54	
55	FEED THRU (PANEL B) (4-500 KCMIL, #1/0 G. IN 4" C.)	0	3	LUGS	162.4	Spare: F	20.1	--		--	--		1	--	SPACE	56	
57								17.8	--	--	--	1	--	SPACE	58		
59									20.6	--	--	--	1	--	SPACE	60	

PHASE TOTAL [kVA]:

37.5 kVA37.2 kVA40.8 kVA

PHASE TOTAL [AMPS]:

313 A310 A340 A

TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
A	INTERIOR LIGHTING	2 kVA	125.00%	2 kVA	TOTAL CONNECTED kVA: 116 kVA TOTAL CONNECTED AMPS: 321 A TOTAL ESTIMATED kVA: 95.8 kVA TOTAL ESTIMATED AMPS: 266 A
B	EXTERIOR LIGHTING	1 kVA	125.00%	2 kVA	
C	COMFORT COOLING	36 kVA	100.00%	36 kVA	
D	COMFORT HEATING	4 kVA	100.00%	4 kVA	
E	MISC. MOTOR	7 kVA	100.00%	7 kVA	
F	KITCHEN EQUIPMENT	59 kVA	65.00%	38 kVA	
G	RECEPTACLES	7 kVA	100.00%	7 kVA	

VOLTS: 208/120V Wye

PHASES: 3

WIRES: 4

MOUNTING: Recessed

ENCLOSURE: Type 1

PANEL: B

MAINS: LUGS

AMPERAGE: 400 A

MCB RATING: 0 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #		
1	CARBONATOR/CO2 ALARM Sistema de carbonatación y alarma de CO2	20	1	GFCI	10.8	F	1.3	1.4			F	11.3	1	20	FOOD PREP TABLE Mesa para la preparación de alimentos	2		
3	FOOD PREP TABLE (ISLAND) Mesa para la preparación de alimentos (isla)	20	1		11.3	F		1.4	1.1		F	9.3	GFCI	1	20	SODA SYSTEM DISPENSER Dispensador para el sistema de refrescos	4	
5	WATER SOFTNER	20	1	GFCI	5.0	F			0.6	1.4	F	12.0	GFCI	1	20	ICE MAKER - UTENSIL COUNTER Máquina para hacer hielo	7	
7	REACH-IN REFRIGERATOR Cuarto frigorífico	20	1	GFCI	10.0	F	1.2	1.0			F	8.5	GFCI	1	20	BUBBLER	8	
9	READY-TO-DRINK REFRIGERATOR	20	1	GFCI	8.8	F		1.1	0.2		F	1.5	GFCI	1	20	UV INSECT LIGHT TRAP	10	
11	COLD TOP (SERVE LINE) Tabla fría (línea de servicio)	20	1		12.0	F			1.4	1.0		F	10.0	2	20	CARVING STATION Estación para cortar carnes	12	
13	ICE MAKER SANITIZER Desinfectante de la máquina para hacer hielo	20	1	GFCI	1.5	F	0.2	1.0									14	
15	ICE MAKER Máquina para hacer hielo	20	1	GFCI	16.0	F		1.9	2.1			F	20.0	2	30	HOT FOOD SERVER (SERVE LINE) (2-#10, #10 N, #10 G, in 3/4" C.) Servidor de alimentos	16	
17	GAS WATER HEATER Calentador de agua a gas	20	1	GFCI	5.0	F			0.6	2.1							18	
19	GAS GRIDDLE Plancha de gas	20	1	GFCI	0.6	F	0.1	0.2			F	1.5	GFCI	1	20	FOOD PREP TABLE APVT	20	
21	GAS FRYER/RICE COOKER Freidora de gas / Olla arrocerca	20	1	GFCI	1.5	F		0.2	1.4			F	13.0	GFCI	2	20	TORTILLA PRESS (SERVE LINE) (2-#10, #10 N, #10 G, in 3/4" C.) Calentador de tortillas	22
23	FOOD WARMER (RICE TABLE) Calentador de alimentos (mesa para el arroz)	15	1		1.5	F			0.2	1.4							24	
25	TORTILLA PRESS (DML) (2-#10, #10 G, in 3/4" C.) Calentador de tortillas (línea del fax)	20	2	GFCI	13.0	F	1.4	0.3			F	2.6	1	20	REFRIGERATOR (COOK LINE) Refrigerador (línea para cocinar)	26		
27								1.4	2.1			F	20.0	GFCI	2	30	HOT FOOD SERVER (DML) (2-#10, #10 N, #10 G, in 3/4" C.) Servidor de alimentos calientes (línea de fax)	28
29	UPRIGHT REFRIGERATOR Refrigerador vertical	20	1	GFCI	10.0	F			1.2	2.1							30	
31	DISH MACHINE (2-#10, #10 G, in 3/4" C.) Lavavajillas	30	2		25.0	F	2.6	1.4			F	11.7	GFCI	1	20	FOOD WARMER (DML) Calentador de alimentos (línea de fax)	32	
33								2.6	1.2		F	10.0	GFCI	1	20	COLD TOP (DML) Tabla fría (línea de fax)	34	
35									2.9	1.1							36	
37	QUESADILLA MAKER (2-#10, #10 G, in 3/4" C.)	30	2	GFCI	28.0	F	2.9	1.1			F	9.4		3	15	CU-1 (3-#10, #10 G, in 3/4" C.)	38	
39	UNDERCOUNTER COOLER (PUW)	20	1	GFCI	1.5	F		0.2	1.1								40	
41	QUESADILLA MAKER (2-#10, #10 G, in 3/4" C.)	30	2	GFCI	28.0	F			2.9	1.5	F	12.5	GFCI	1	20	ICE MAKER (PUW) Máquina para hace hielo	42	
43							2.9	1.1			F	9.2	GFCI	1	20	SODA SYSTEM DISPENSER (PUW)	44	
45	SPARE	20	1	--	--		0.0	0.0			F	0.2	1	20	WIC - DOOR SECTION	46		
47	SPARE	20	1	--	--				0.0	0.2	F	1.5	1	20	WIC - EVAPORATOR	48		
49	SPARE	20	1	--	--	0.0	0.0				--	--	1	20	SPARE	50		
51	SPARE	20	1	--	--		0.0	0.0			--	--	1	20	SPARE	52		
53	SPARE	20	1	--	--				0.0	0.0	--	--	1	20	SPARE	54		

PHASE TOTAL [kVA]:

20.1 kVA

17.8 kVA

20.6 kVA

PHASE TOTAL [AMPS]:

170 A

148 A

175 A

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6	12/13/24 CB03
7	02/14/25 DB Updates

Drawn: _____ Checked: _____

IJD AID

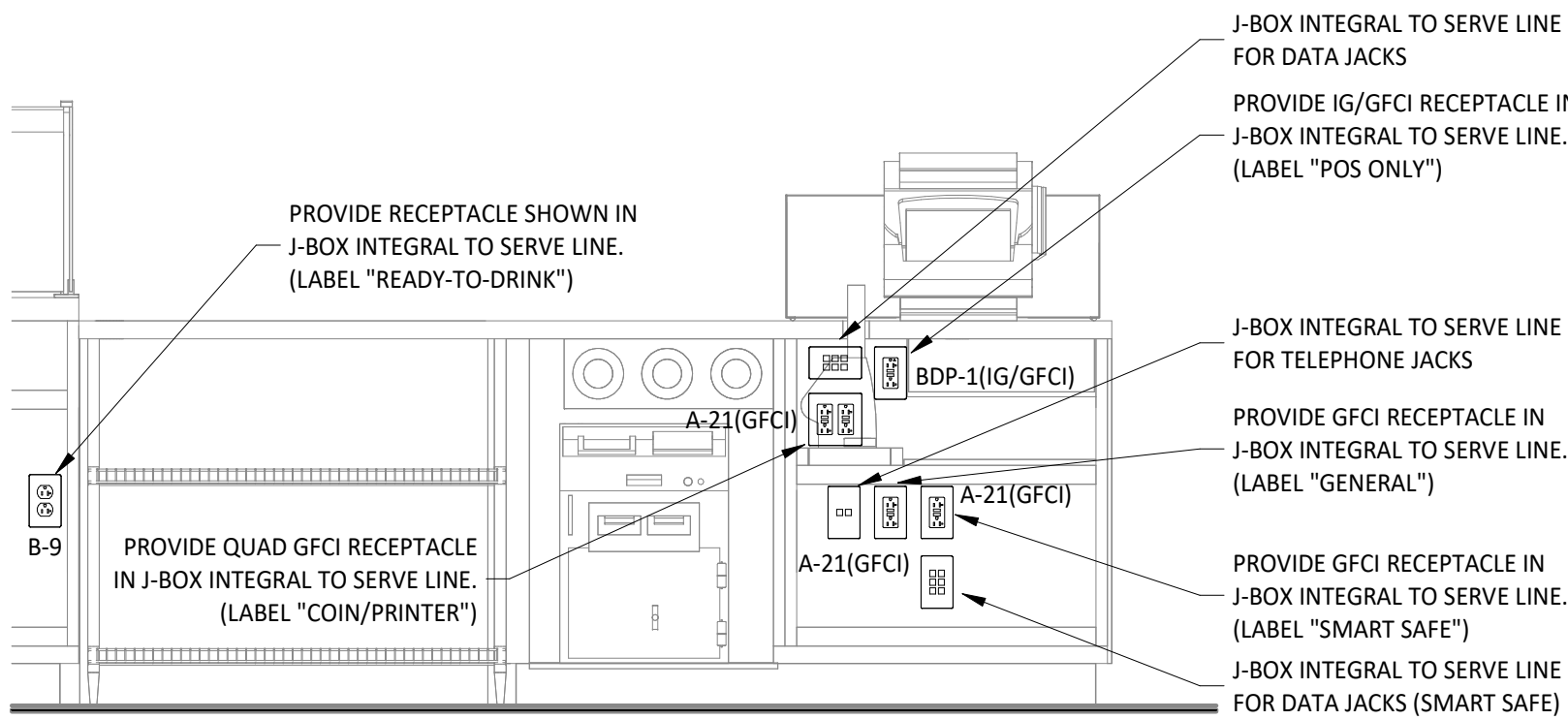
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221026

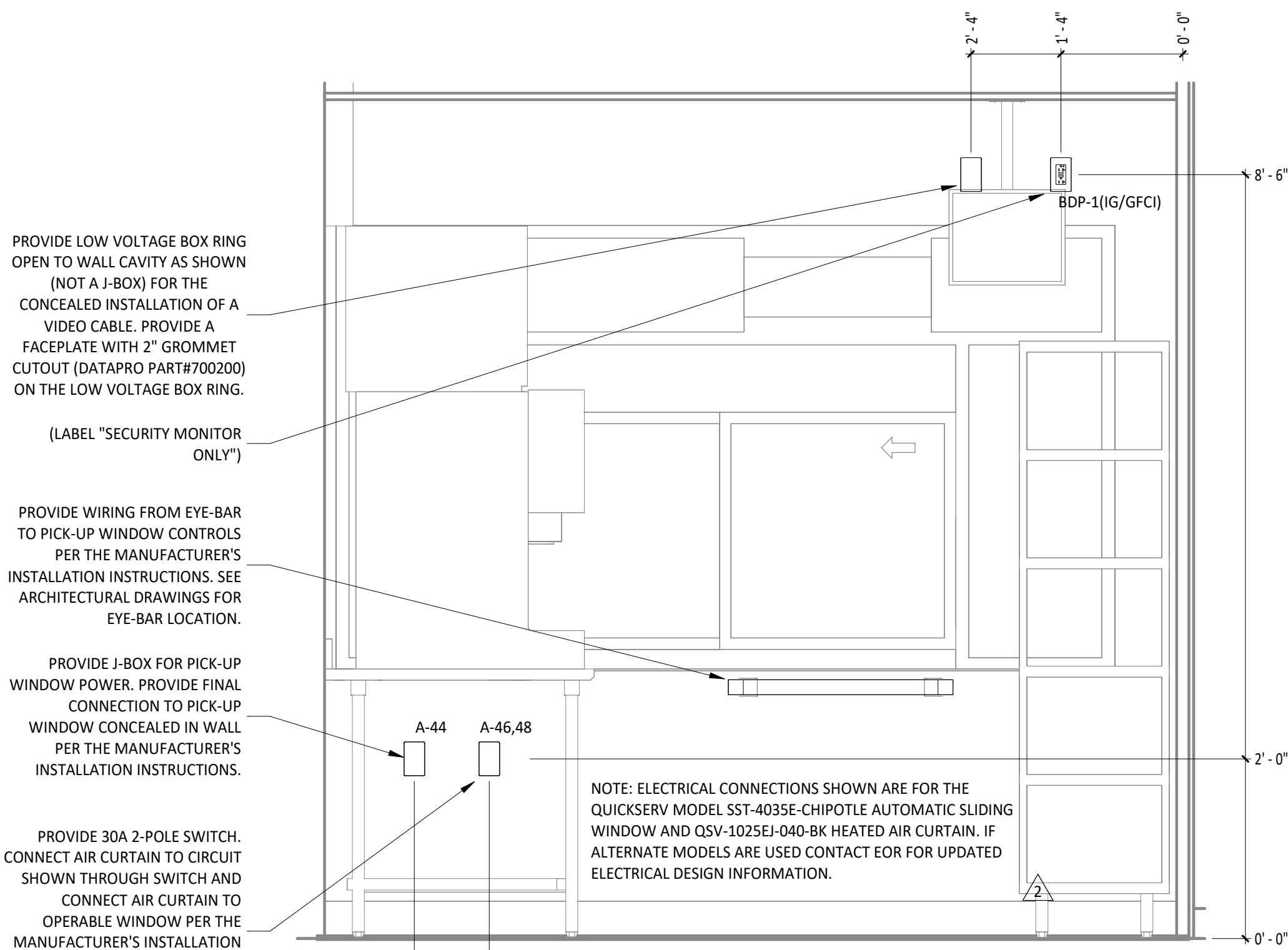
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ELECTRICAL SCHEDULES

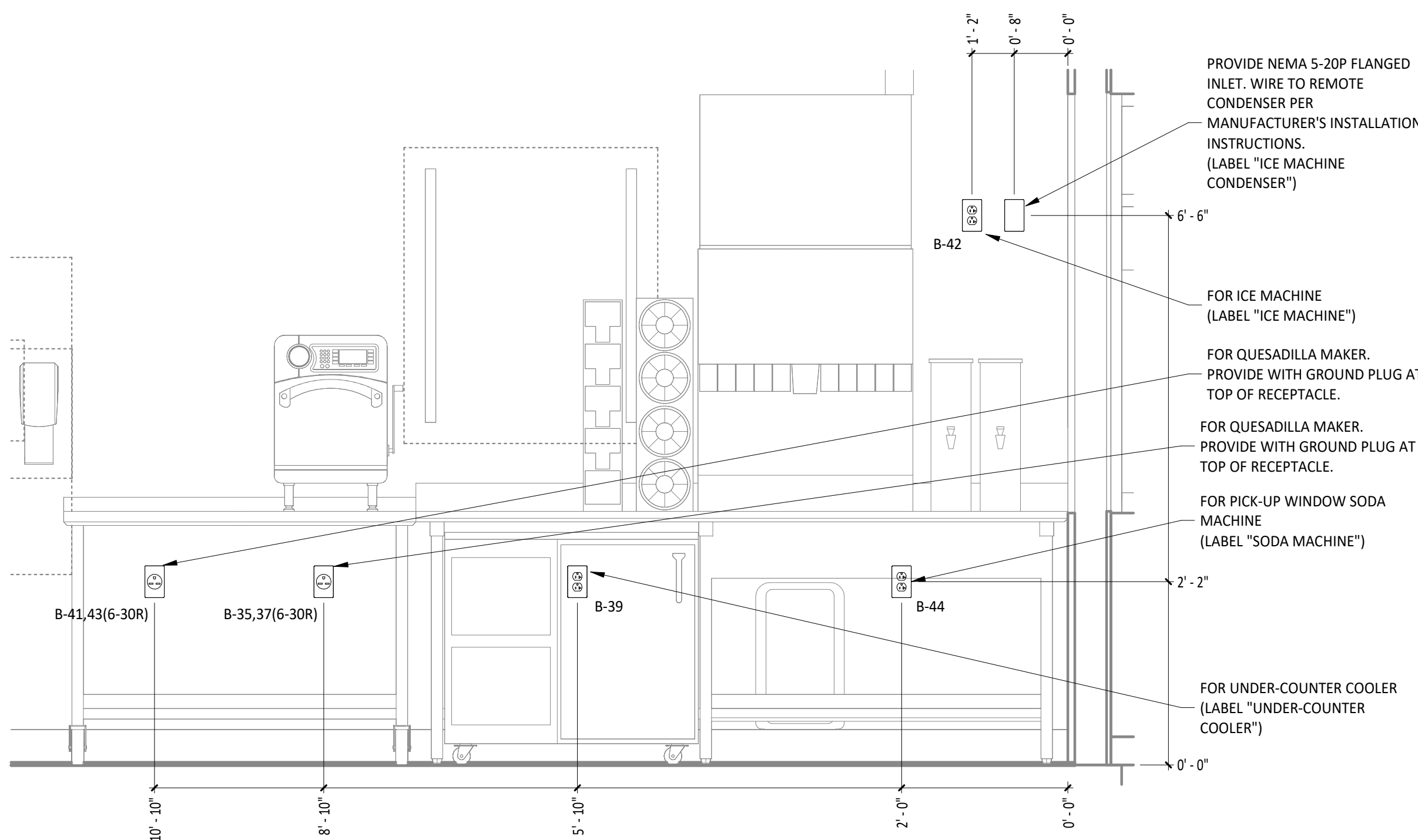
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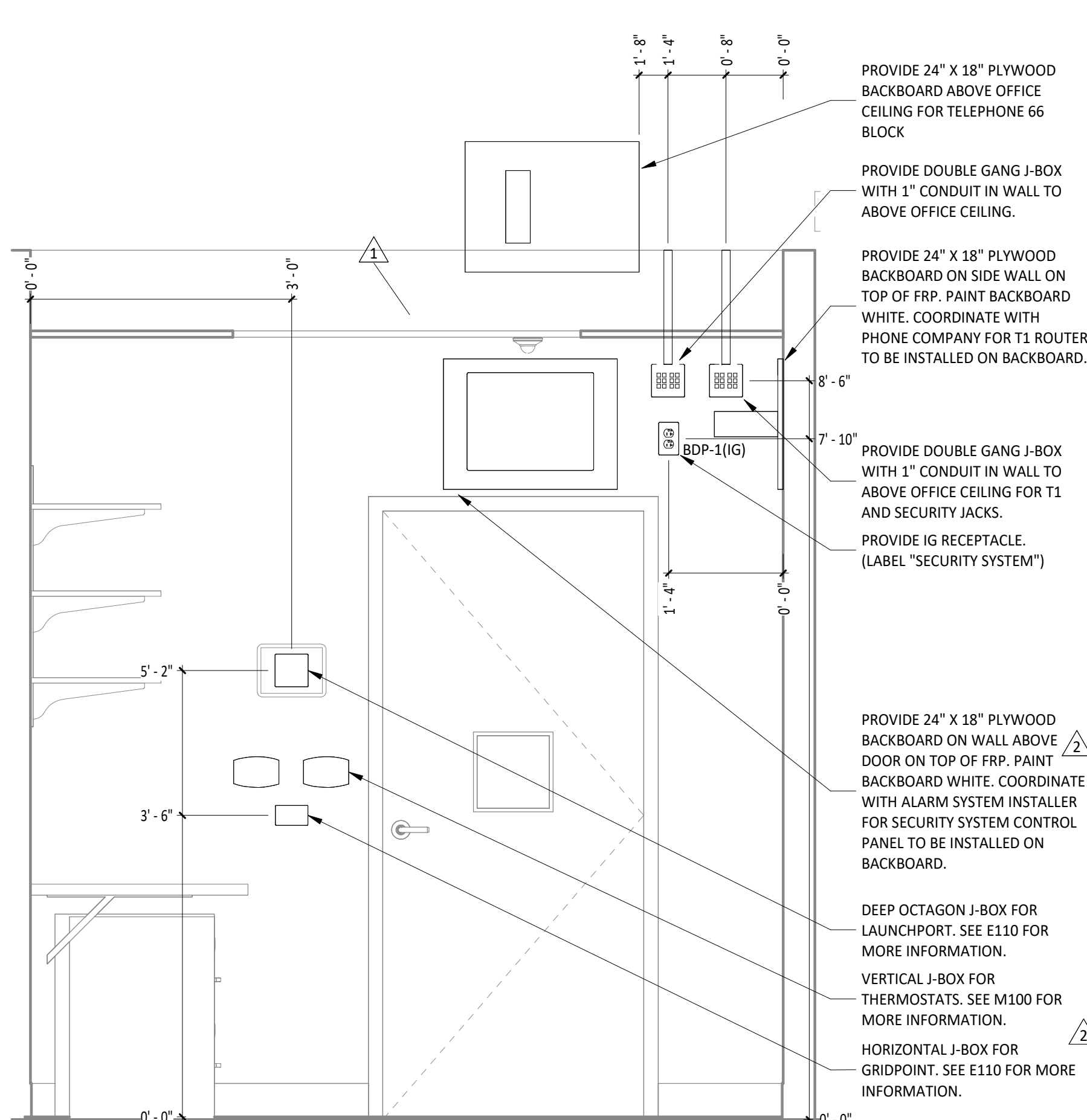
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E700
POS COUNTER ELECTRICAL ELEVATION
3/4" = 1'-0"



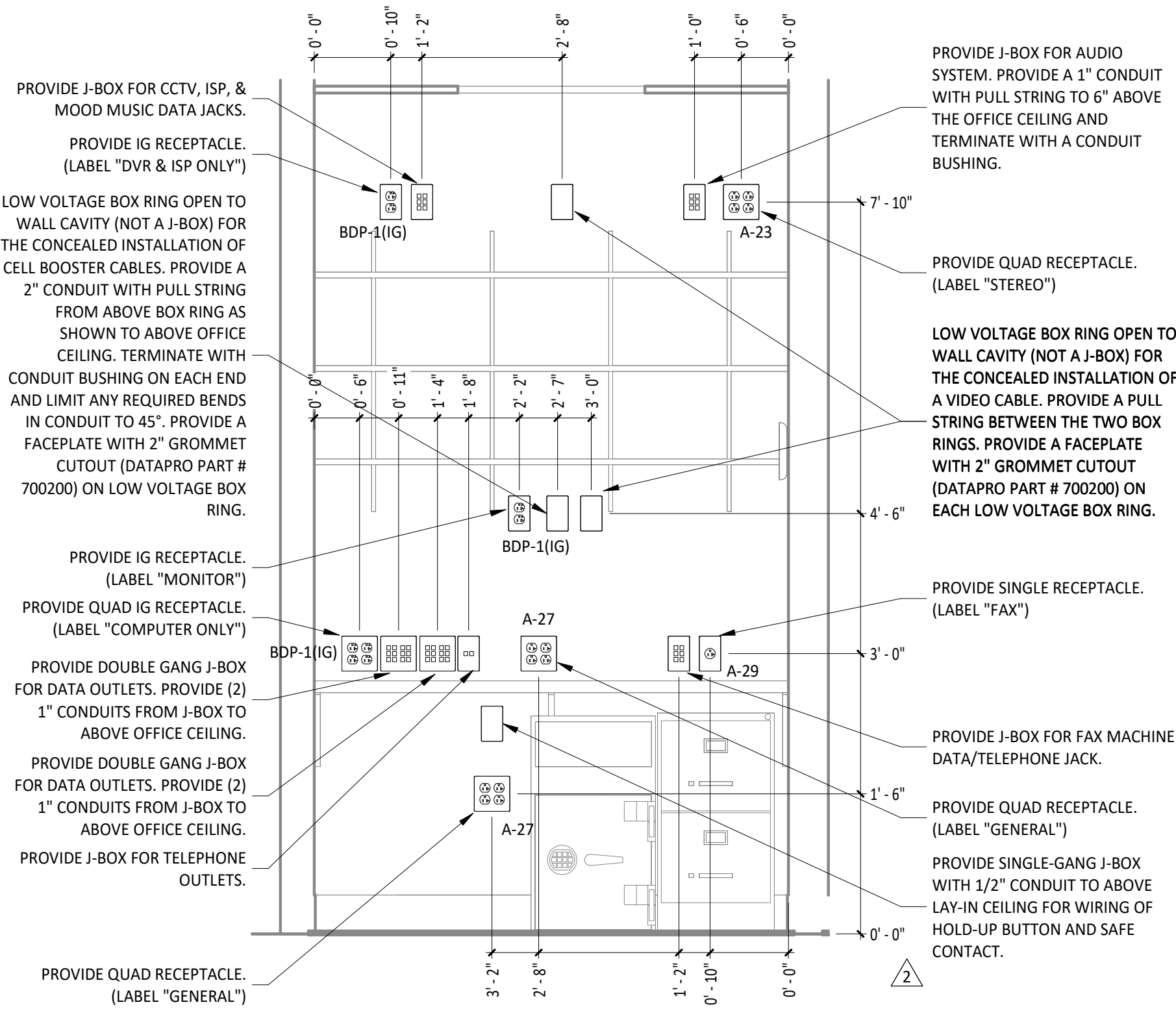
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E700
PICK UP WINDOW ELECTRICAL ELEVATION
3/4" = 1'-0"



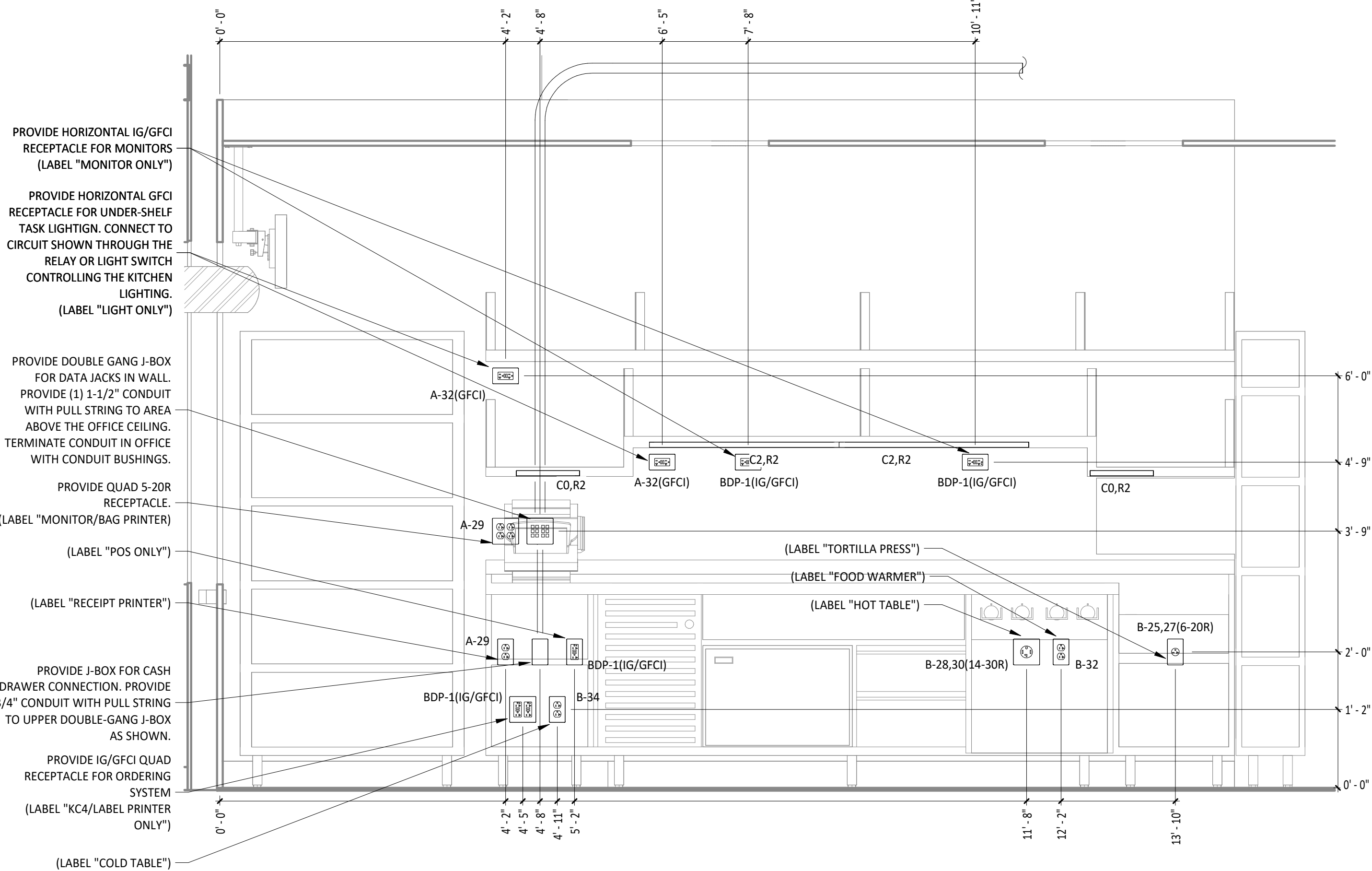
2
E700
PUW COLD SIDE ELECTRICAL ELEVATION
3/4" = 1'-0"



4
E700
OFFICE DOOR ELECTRICAL ELEVATION
3/4" = 1'-0"



3
E700
OFFICE DESK ELECTRICAL ELEVATION
3/4" = 1'-0"



1
E700
DML ELECTRICAL ELEVATION
3/4" = 1'-0"

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02/14/2025	CONSTRUCTION ISSUE

Revisions:	
1	06/26/2023 DB Updates
2	09/16/2024 Client Revisions

Drawn: IJD
Checked: AJD

Project No.
221026

Contents:

ELECTRICAL INTERIOR
ELEVATIONS

E700

The logo for Chipotle Mexican Grill, featuring a stylized chili pepper in the center, surrounded by the words "CHIPOTLE" and "MEXICAN GRILL" in a circular border.

STORE NO.: 4470

LAKE ST. LOUIS

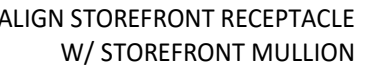
8280 Old Highway N.

Lake St. Louis, MO 63367

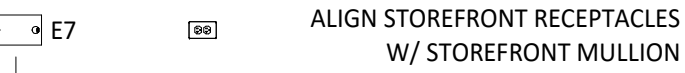
Subject No.

150

E705



3 DINING ROOM ELECTRICAL ELEVATION



2 DINING ROOM ELECTRICAL ELEVATION

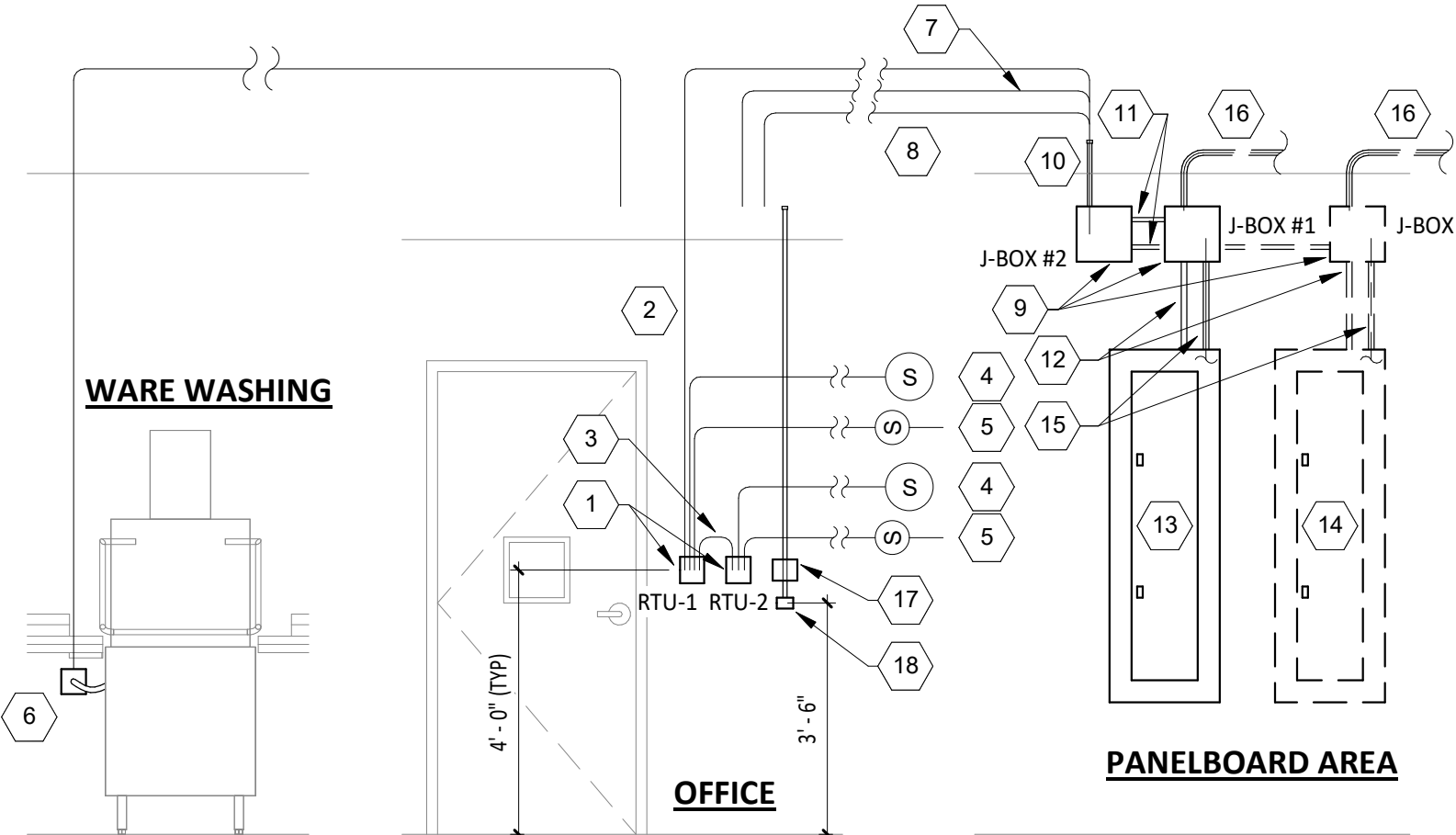


1 DINING ROOM ELECTRICAL ELEVATION

GRIDPOINT DIAGRAM NOTES

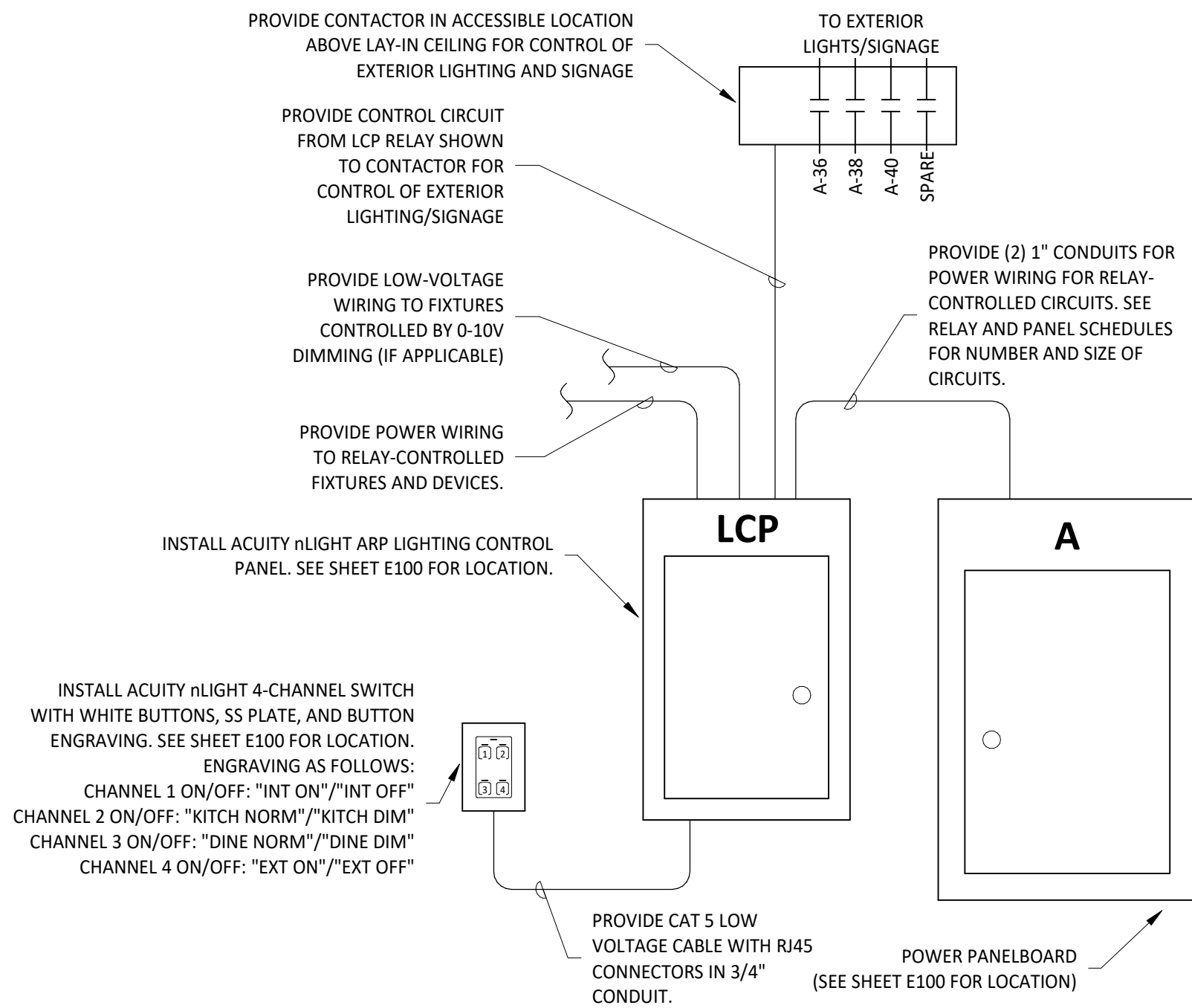
1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CATSE CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CATSE CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CATSE CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CATS CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2.
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER).
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF [(4) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF [(2) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF [(2) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.

NOTE:
ARRANGEMENT SHOWN IS
DIAGRAMMATIC - SEE PLANS FOR ACTUAL
DEVICE LOCATIONS.



GRIDPOINT WIRING DIAGRAM

8
E710 NOT TO SCALE

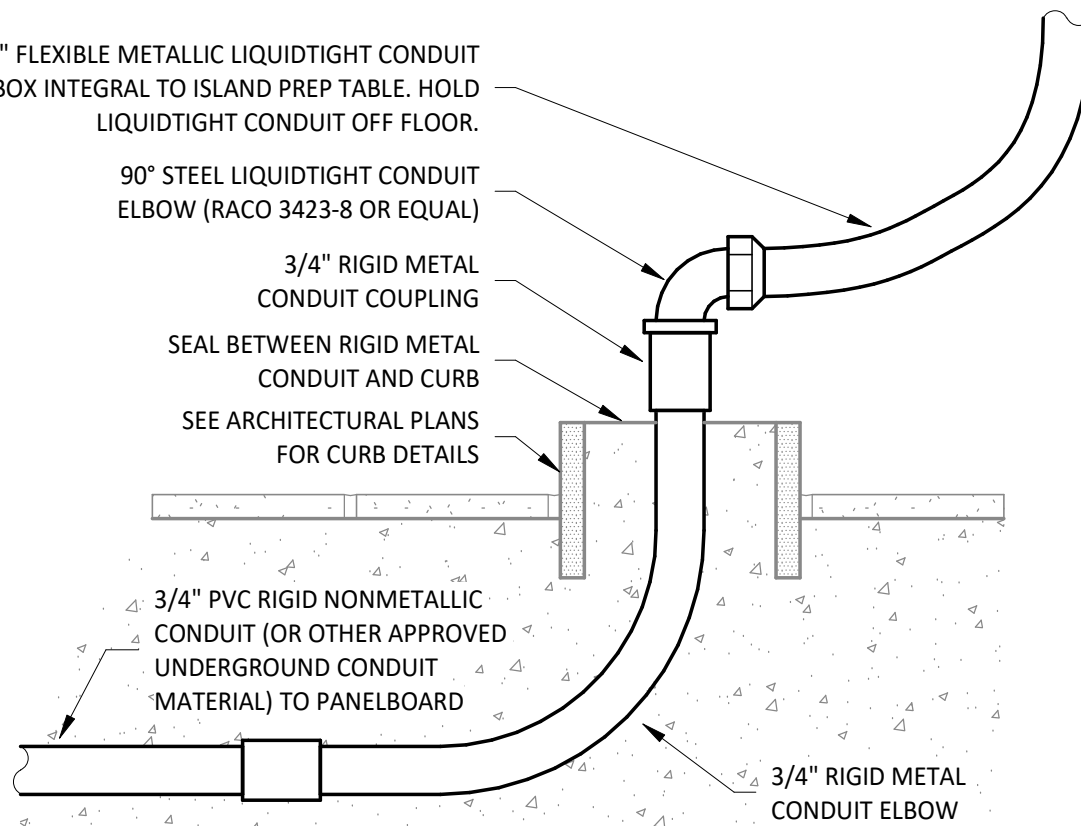


LIGHTING CONTROL DIAGRAM

6
E710 NOT TO SCALE

SEQUENCE OF OPERATIONS

- A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY-SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
- B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME, IF APPLICABLE.
- C. ALL KITCHEN LIGHTING CIRCUITS AND RESTROOM EXHAUST FAN CIRCUIT (R1, R2, R7) SHALL BE ENERGIZED AT FULL POWER FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
- D. ALL DINING ROOM LIGHTING CIRCUITS (R4, R5, R6) SHALL BE ENERGIZED FROM 10:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
- E. OVERRIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED THE SYSTEM WILL GO INTO OVERRIDE MODE FOR THE DURATION NOTED BELOW OR UNTIL THE NEXT SCHEDULED EVENT. FOLLOWING THIS PERIOD THE RELAYS WILL RETURN TO THE CURRENT SCHEDULED CONDITION. DURING THIS OVERRIDE TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON.
- F. INTERIOR (CHANNEL 1): WHEN THE INTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 1) RELAYS R1, R2, R4, R5, R6, AND R7 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE(1) HOUR.
- G. DINING DIMMING (CHANNEL 3): WHEN THE DINING NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 3) RELAYS R5 AND R6 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE(1) HOUR.
- H. KITCHEN DIMMING (CHANNEL 2): WHEN THE KITCHEN NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 2) RELAY R2 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
- I. VERIFY THAT TIME, TIME ZONE, AND LONGITUDE/LATITUDE ARE SET CORRECTLY ON LCP. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TURNOVER.



PEDESTAL OUTLET DETAIL

2
E710 NOT TO SCALE

ELECTRICAL CONNECTIONS SHALL BE ON THE OPPOSITE SIDE OF THE DISH MACHINE FROM THE 3-COMP SINK. IF THIS IS ON THE LEFT SIDE OF THE DISH MACHINE THEN LIQUID TIGHT CONDUIT SHALL BE ROUTED BEHIND THE DISH MACHINE TO THE ELECTRICAL CONNECTIONS ON THE RIGHT SIDE OF THE DISH MACHINE..

POWER FOR DISH SANITIZING MACHINE SHALL BE FED FROM A DEDICATED 2-POLE LOCKABLE CIRCUIT BREAKER. PROVIDE FINAL CONNECTION FROM J-BOX IN WALL TO DISH SANITIZING MACHINE USING LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

PROVIDE CONDUITS AND WIRING FOR GRIDPOINT CONNECTION TO DSM AS SHOWN IN DETAIL 8/E710.

DISH SANITIZING MACHINE ELECTRICAL DETAIL

7
E710 NOT TO SCALE

CO2 ALARM OPTIONS	
CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	

INSTALL STROBE WITH WIRING TO CO2 DETECTOR SEU OR RDU (FURNISHED BY CO2AS) (IF REQUIRED). PROVIDE 3/4" CONDUIT IN WALL FROM STROBE LOCATION TO ABOVE CEILING TO CONCEAL WIRING.

CO2 TANK (BULK TANK OR CANISTERS)
PROVIDE GFCI RECEPTACLE J-BOX ADJACENT TO THE CO2 TANK/BAG-IN-BOX AS SHOWN ON THE ELECTRICAL POWER PLAN.

RECEPTACLE
21" AFF
CO2 DETECTOR/J-BOX
12" AFF

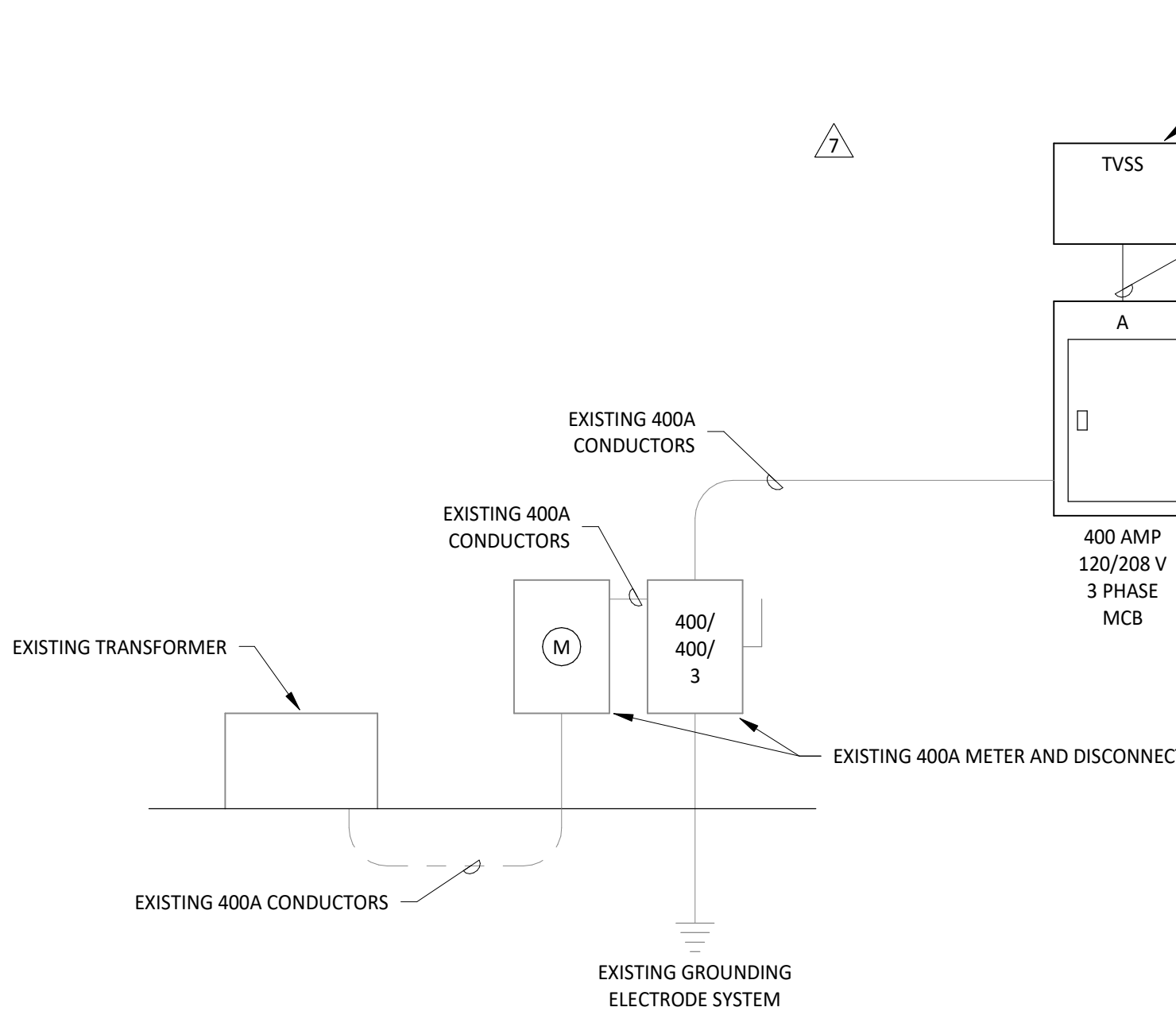
INSTALL CO2METER RAD-0102-06 CARBON DIOXIDE STORAGE SAFETY ALARM SEU (FURNISHED BY CO2AS) ADJACENT TO THE CO2 TANK/BAG-IN-BOX AS SHOWN.

CONNECT THE SYSTEM POWER TO THE RECEPTACLE AS SHOWN. INSTALL CABLE TO MINIMIZE SLACK AT CO2 DETECTOR. SECURE CABLE TO WALL.

AT SEU J-BOX, INSTALL MOUNTING PLATE TO TOP SCREW HOLE OF J-BOX WITH THE MOUNTING PLATE EXTENDING UP ABOVE THE TOP OF THE J-BOX IN THE ORIENTATION SHOWN.

CO2 ALARM DETAIL

4
E710 NOT TO SCALE



MAIN DISTRIBUTION DIAGRAM

1
E710 NOT TO SCALE

Consultant:



Blanchard AE Group

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AEGROUP@BAE.GROUP

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STORE NO.: 4470
LAKE ST. LOUIS
8280 Old Highway N.
Lake St. Louis, MO 63367

Issue Record:	
10/18/2022	PERMIT ISSUE
02/14/2025	CONSTRUCTION ISSUE

Revisions:	
1	06/26/2023 DB Updates
2	09/16/2024 Client Revisions
6	12/13/24 CB03
7	02/14/25 DB Updates

Drawn: IJD
Checked: AJD

Project No.
221026

Contents:

ELECTRICAL DETAILS

E710

FOR QUESTIONS, CALL THE
Highwoods Group
REGION 40
PHONE: (919) 875 - 0420
EMAIL: reg40@captiveaire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION — JOB#6176014

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP				END TO END	RDW
1		5424 ND-2-ACPSP-F	CAPTIVEAIRE	14' 3"	600 DEG	I	HEAVY	225	3200	10"	15"	4"		1600	1536	-0.854"	1950	798	430 SS WHERE EXPOSED	ALONE	ALONE
										10"	15"	4"		1600	1536	-0.854"					

HOOD INFORMATION

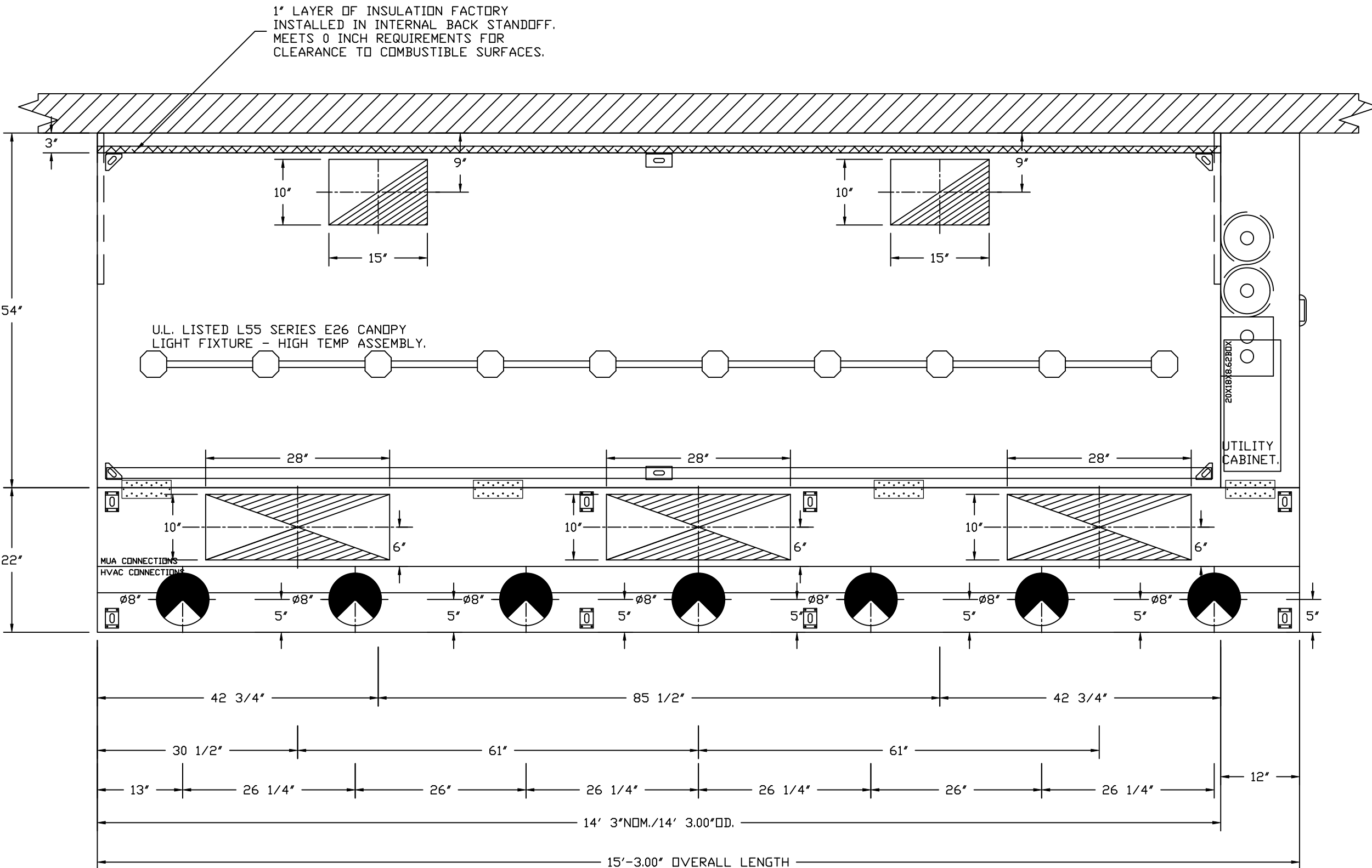
HOOD NO	TAG	FILTER(S)					LIGHT(S)				UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY		
1		CAPTRATE SOLID FILTER	10	16"	16"	85% SEE FILTER SPEC	10	L55 SERIES E26	NO	RIGHT	12"x54"x24"	ANSUL R-102	3.0/3.0	SC-311110MA	1 LIGHT 1 FAN	YES	1085 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 12.00" HIGH FRONT, LEFT, RIGHT. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. INSULATION FOR BACK OF HOOD. FULL DIMENSION HANGING BRACKET - FRONT.

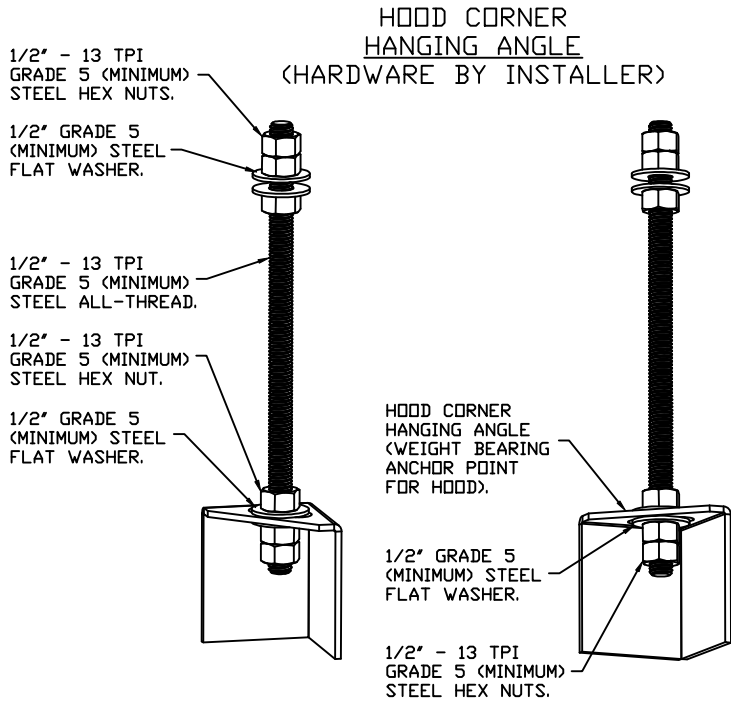
PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1		Front	183"	22"	6"	MUA	10"	28"		650	0.166'
						MUA	10"	28"		650	0.166'
						MUA	10"	28"		650	0.166'
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"



PLAN VIEW — HOOD #1
14' 3.00" LONG 5424ND-2-ACPSP-F
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12" AND LONGER.

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION



ASSEMBLY INSTRUCTIONS

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

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

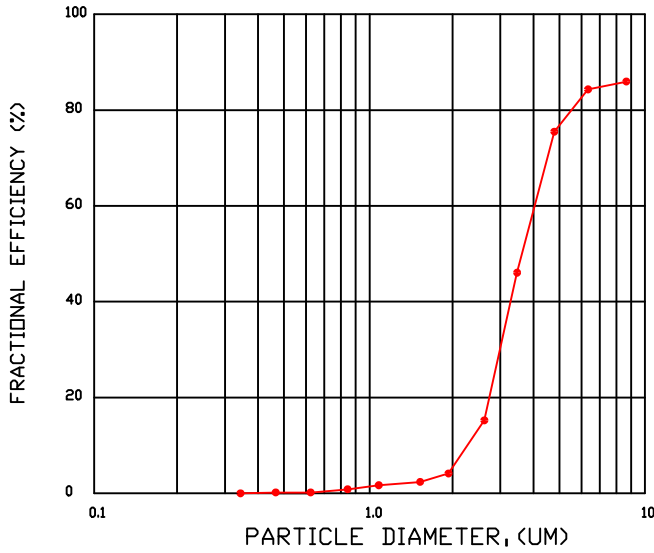
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

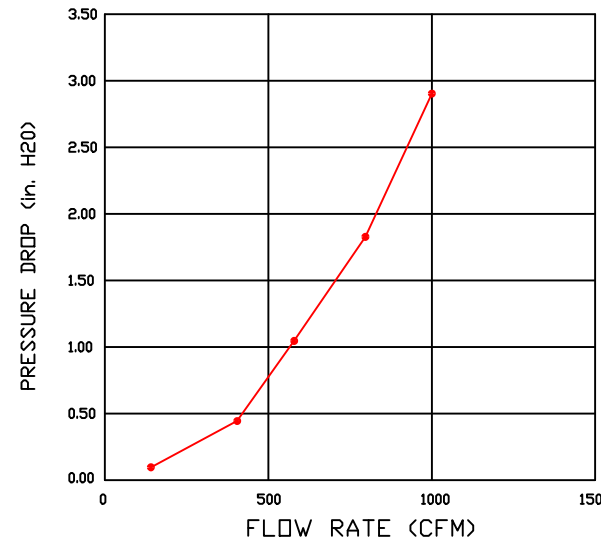
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05, MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

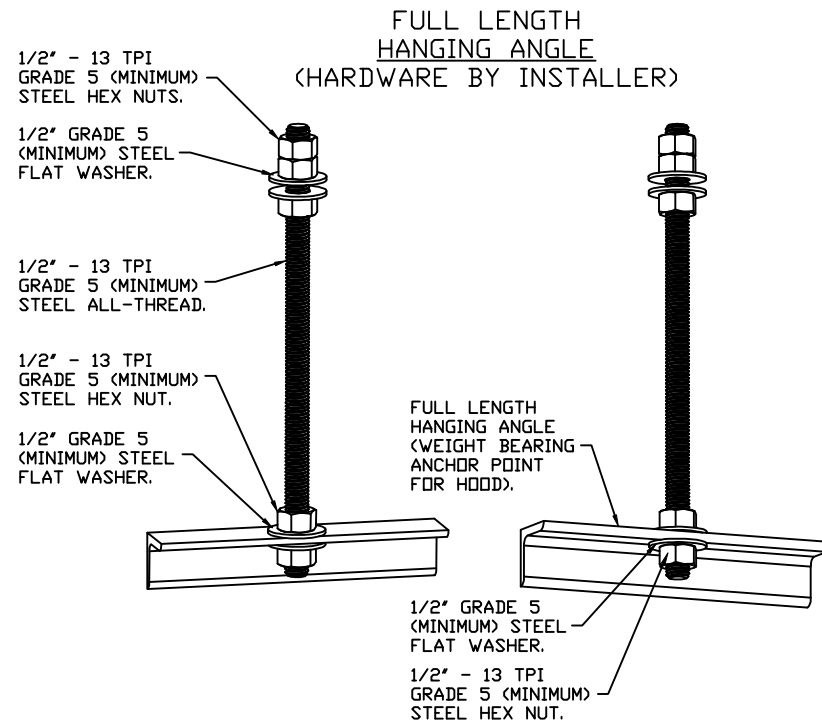
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE

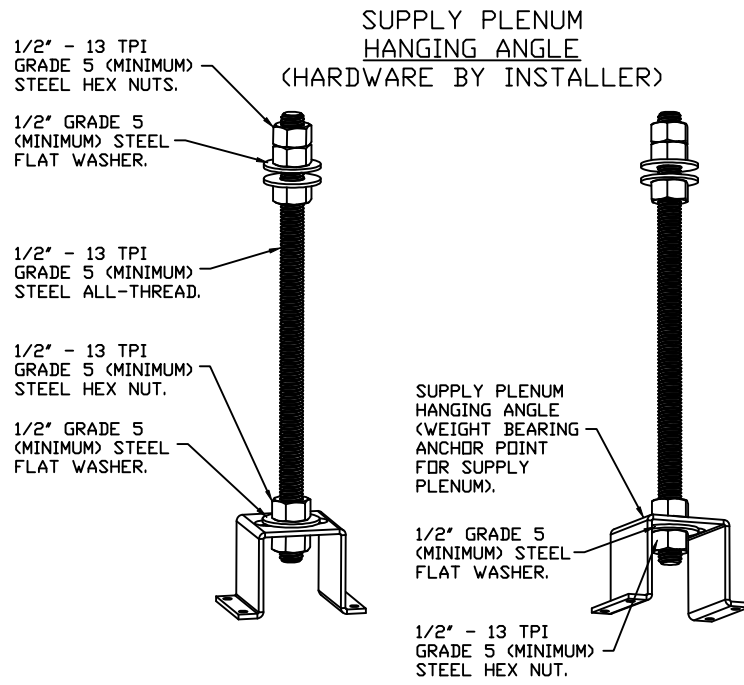


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



ASSEMBLY INSTRUCTIONS

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



ASSEMBLY INSTRUCTIONS

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

REVISIONS

DESCRIPTION	DATE:
Δ	
Δ	
Δ	
Δ	

Highwoods Group

4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875 - 0420 FAX: 9198760577 EMAIL: reg40@captiveaire.com

CHIPOTLE LAKE ST. LOUIS #4470

LAKE SAINT LOUIS, MO, 63367

DATE: 8/20/2023

DWG.#: 6176014

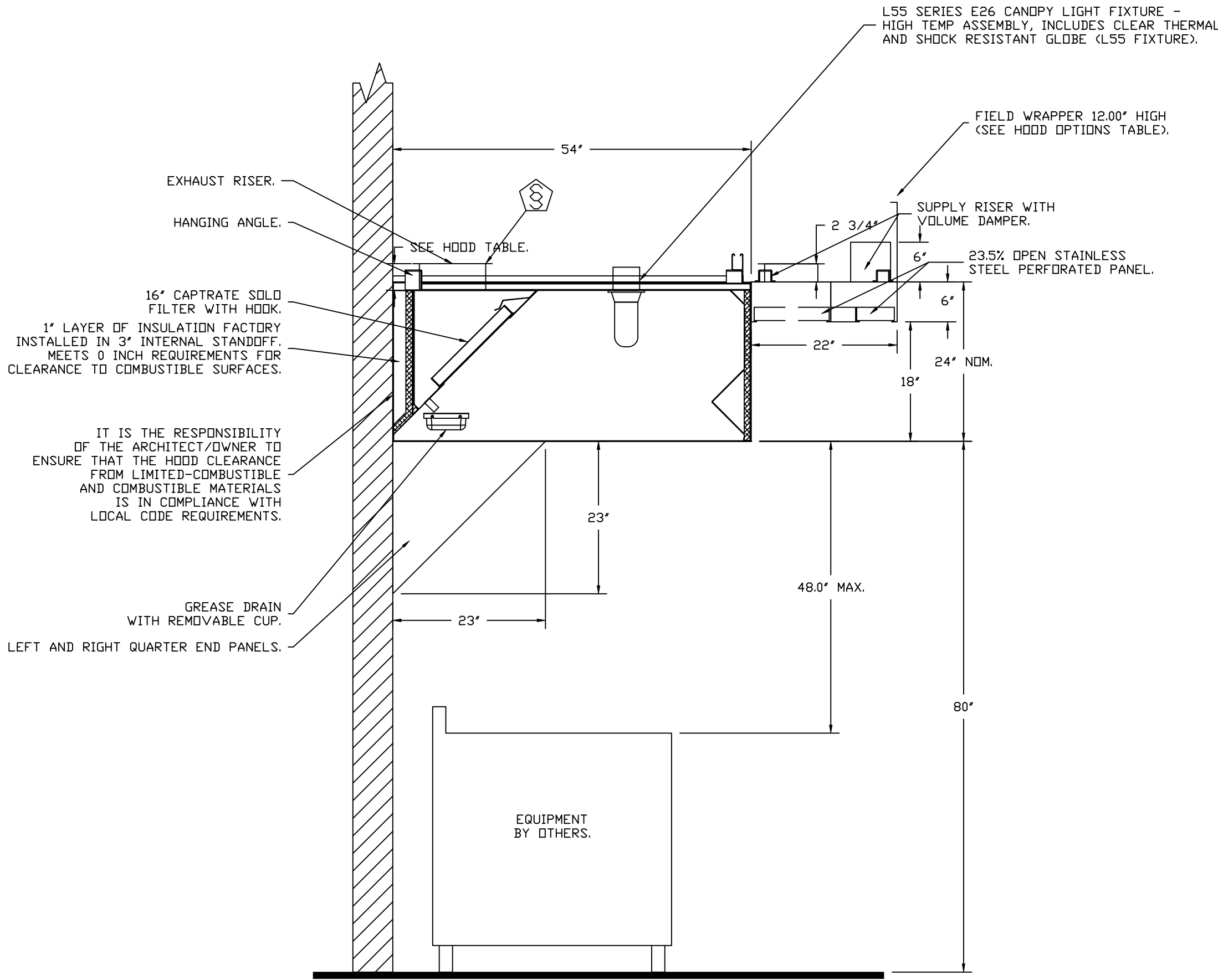
DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

1



SECTION VIEW – MODEL 5424ND-2-ACPSP-F
HOOD – #1

FIRE SYSTEM INFORMATION – JOB#6176014

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0	13	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		MECHANICAL	1.500	CAPTIVEAIRE SYSTEMS

REVISIONS

DESCRIPTION	DATE:
Δ	
Δ	
Δ	
Δ	
Δ	



Highwoods Group

www.captiveaire.com

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CHIPOTLE LAKE ST. LOUIS #4470
LAKE SAINT LOUIS, MO, 63367

DATE: 8/20/2023

DWG.#:
6176014

DRAWN BY: JMB-40

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
2

EXHAUST FAN INFORMATION – JOB#6176014

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF-1	1	DU240HFA	CAPTIVEAIRE	3200	1.200	780	DDP,PREMIUM	3.000	1.3030	3	208	10.2	727 FPM	305	12.4
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.600	1293	TEAD-ECM	0.250	0.0940	1	115	2.9		50	6.2

MUA FAN INFORMATION – JOB#6176014

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SDNES
3	MAU-1	1	A1-D.250-15D	15MF-1-MDD	A1-D.250	1000	1950	0.500	2044	DDP,PREMIUM	2.000	1.3430	3	208	6.1	7.7A	15A	500	20.3

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)	
3	MAU-1	142251	130871	64°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92	FAN #1 DU240HFA – EXHAUST FAN (EF-1)

FAN OPTIONS

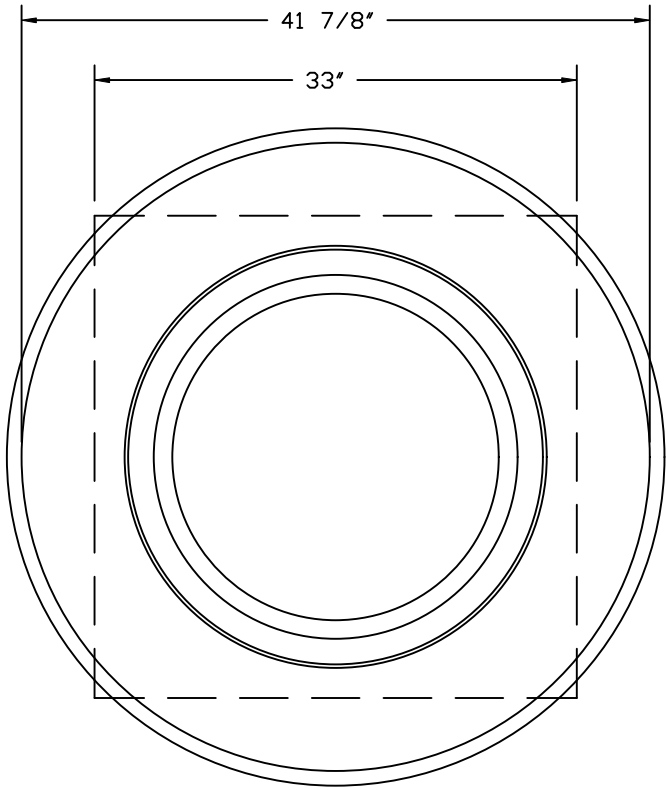
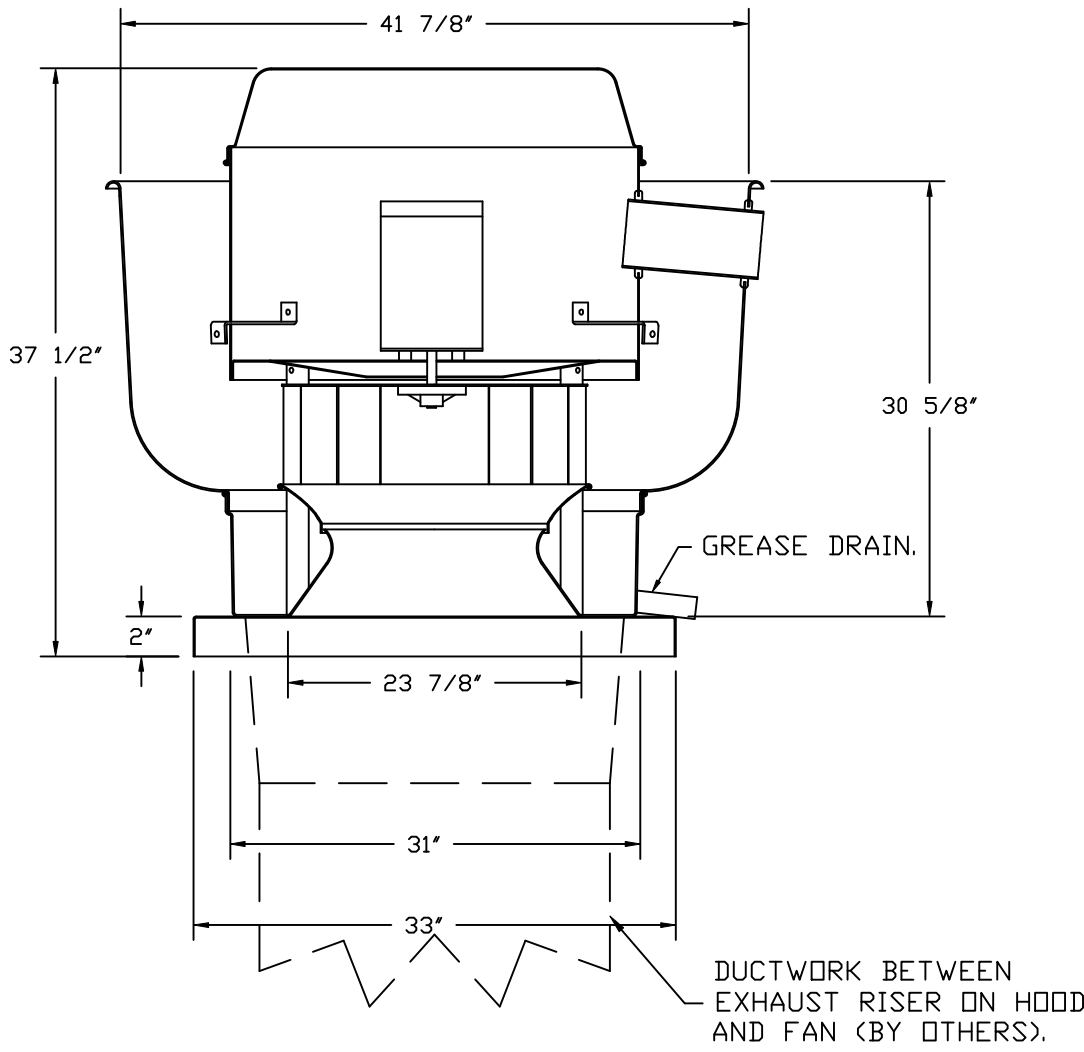
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	I 12-BDD DAMPER
		1	ECM WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL –RTC- (TELCD MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING – MEETS AMCA CLASS 1A RATING
		1	LOW FIRE START
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) – THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

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

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1		43 LBS	CURB	31.500"W X 31.500"L X 20.000"H VENTED.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.
3	# 3	MAU-1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H INSULATED.



TOP VIEW

FEATURES:

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

NORMAL TEMPERATURE TEST

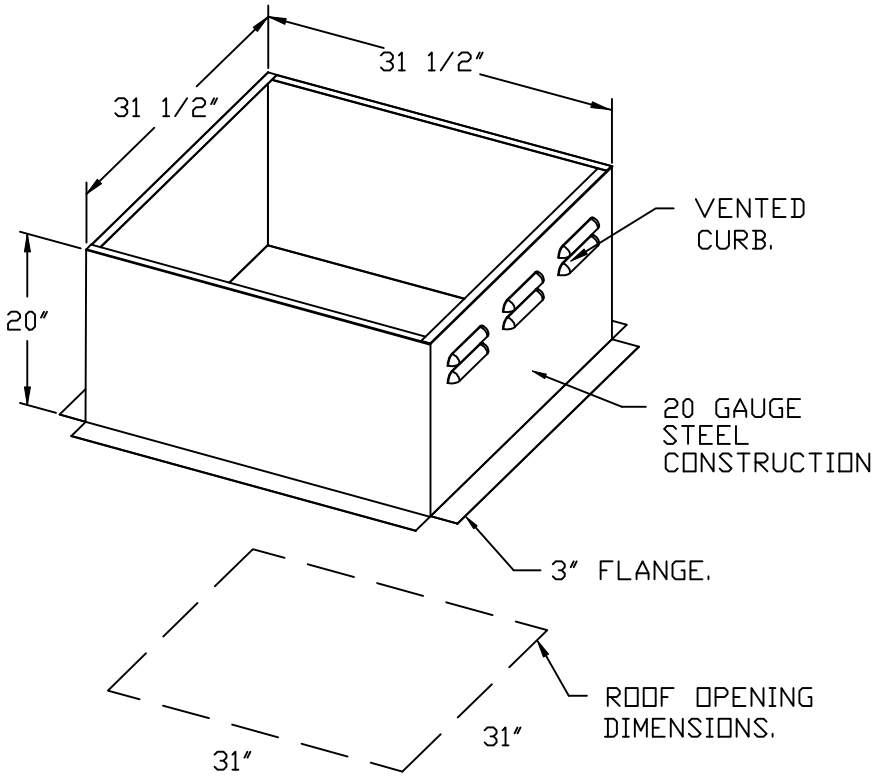
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

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

OPTIONS

- GREASE BOX.
- REMOVE HINGE KIT LABEL FROM THE FAN BASE.
- 2 YEAR PARTS WARRANTY.



REVISIONS

DESCRIPTION	DATE:
Δ	
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Highwoods Group

4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875 - 0420 FAX: 9198760577 EMAIL: reg40@captiveaire.com

CHIPOTLE LAKE ST. LOUIS #4470
LAKE SAINT LOUIS, MO, 63367

DATE: 8/20/2023

DWG.#: 6176014

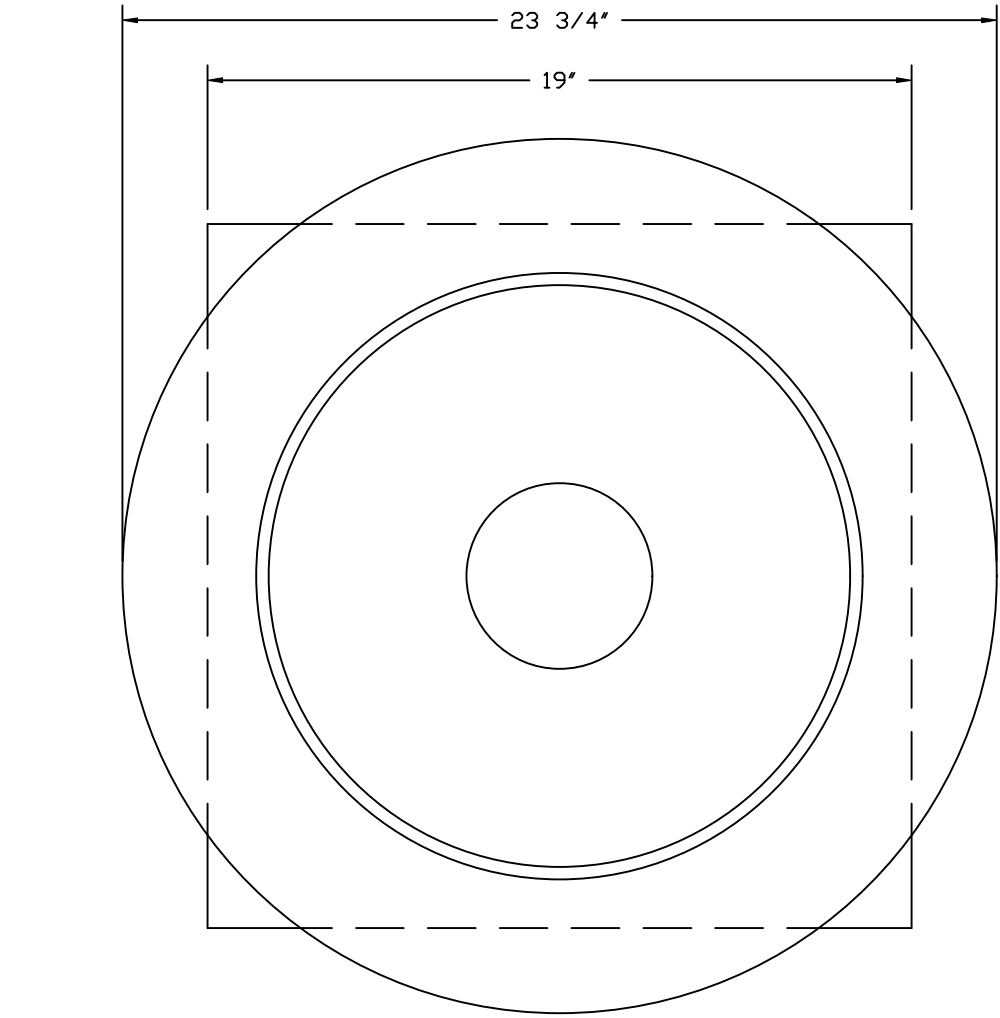
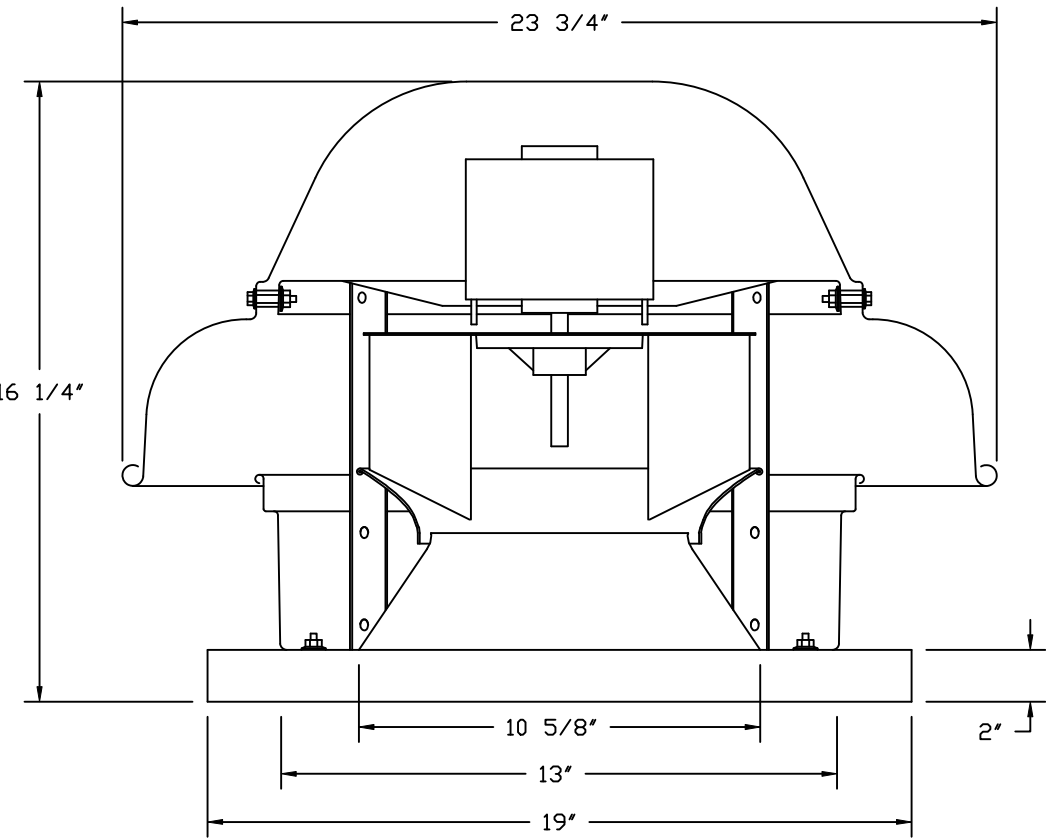
DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 3

FAN #2_DR12HFA – EXHAUST FAN (FF-2)



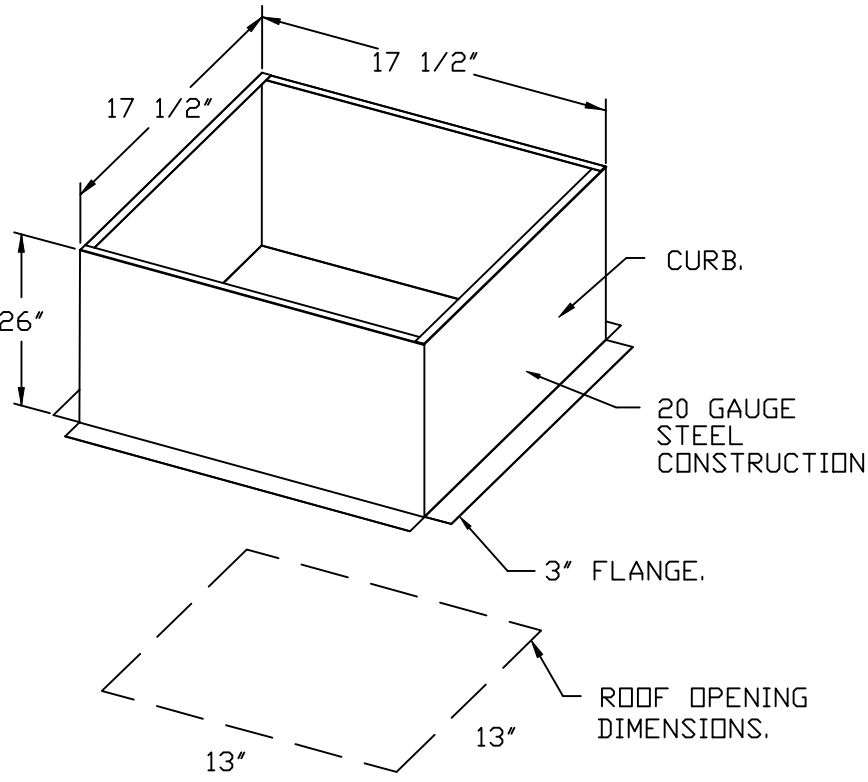
TOP VIEW

FEATURES:

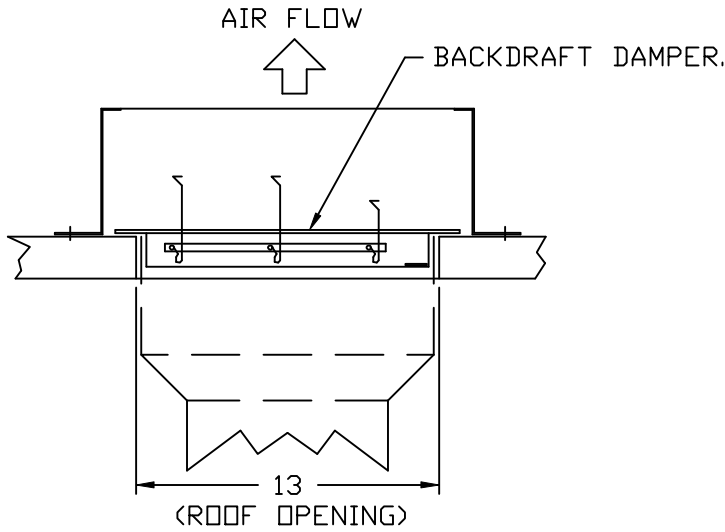
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS

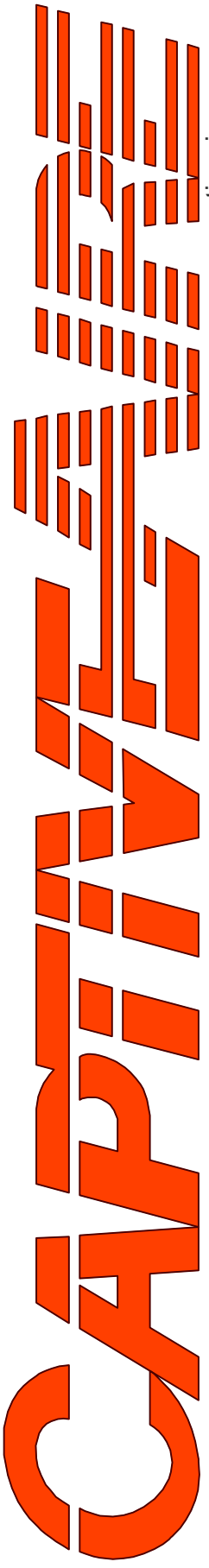
- 1 12-BDD DAMPER.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL.
- RTC - (TCLCD MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



BACKDRAFT DAMPER INSTALLATION



REVISIONS	
DESCRIPTION	DATE:
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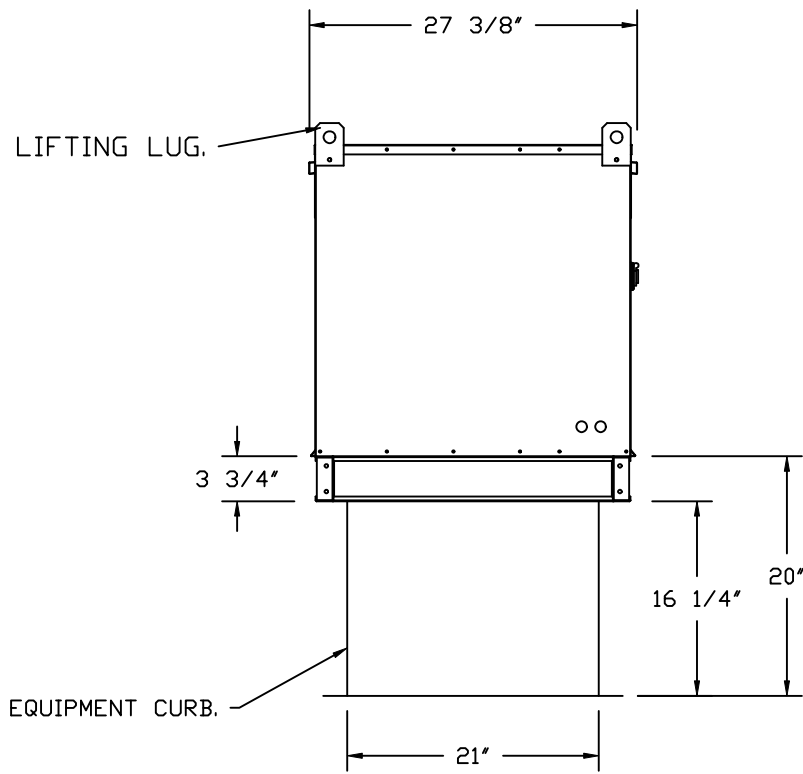
CHIPOTLE LAKE ST. LOUIS #4470

LAKE SAINT LOUIS, MO, 63367

DATE: 8/20/2023
DWG.#: 6176014
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 4

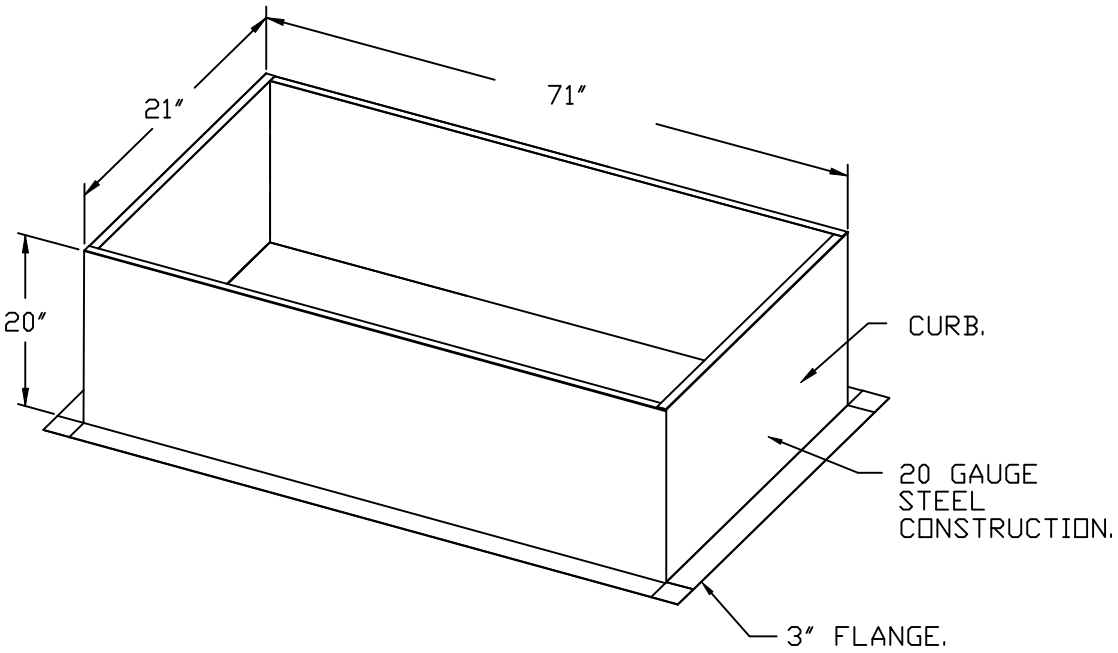
- FAN #3 A1-D250-15D - HEATER (MAU-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
2. INTAKE HODD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, 1FBI20S ACTUATOR INCLUDED.
5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
8. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
9. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
10. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
11. 2 YEAR PARTS WARRANTY

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".



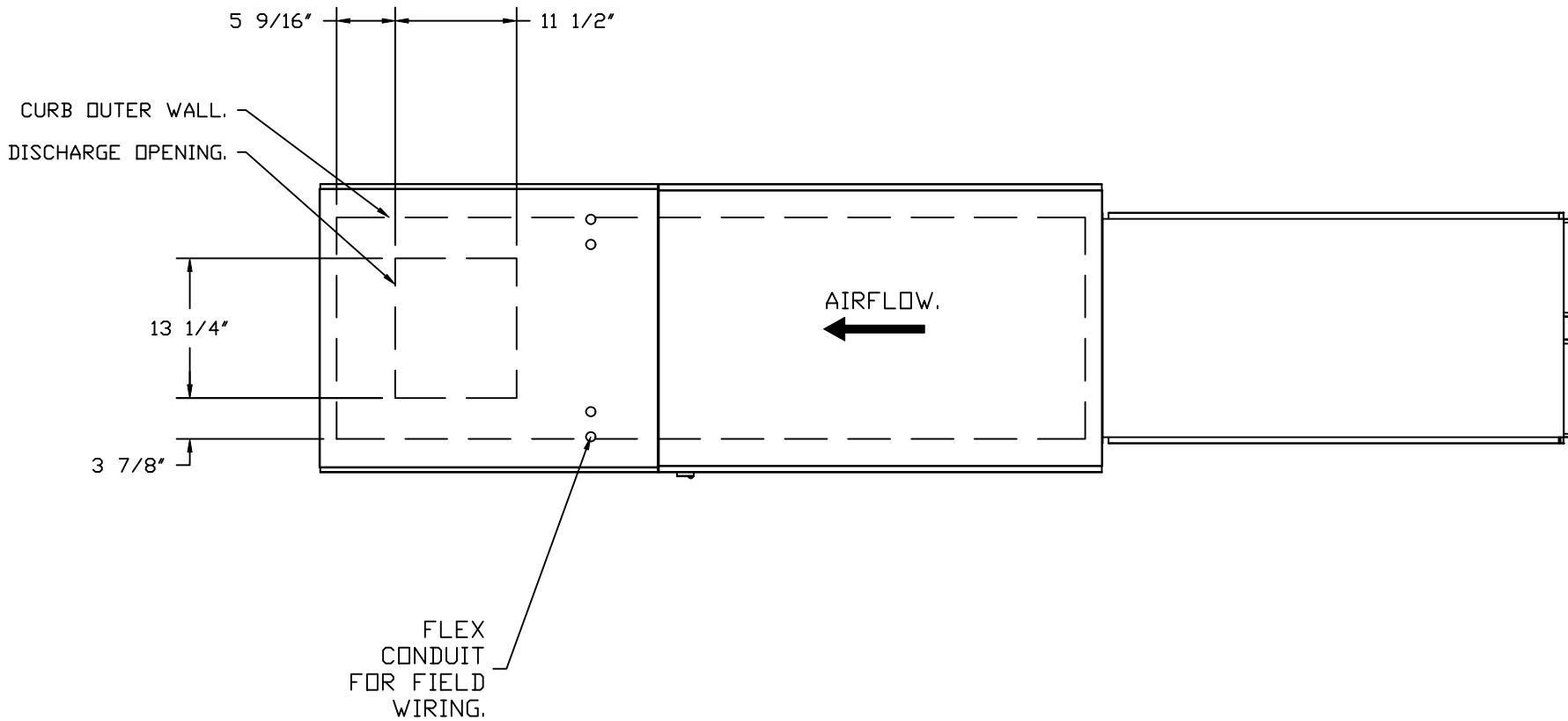
ROOF OPENING 2" SMALLER THAN CURB DIMENSION.

OPTIONS:
- FULL BOTTOM CORNERS.



SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 11°F. TEMP. RISE = 64°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 133329.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 144923.
OUTPUT BTUs AT ALTITUDE OF 514 FT. = 130871.
INPUT BTUs AT ALTITUDE OF 514 FT. = 142251.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:

DESCRIPTION:

DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:

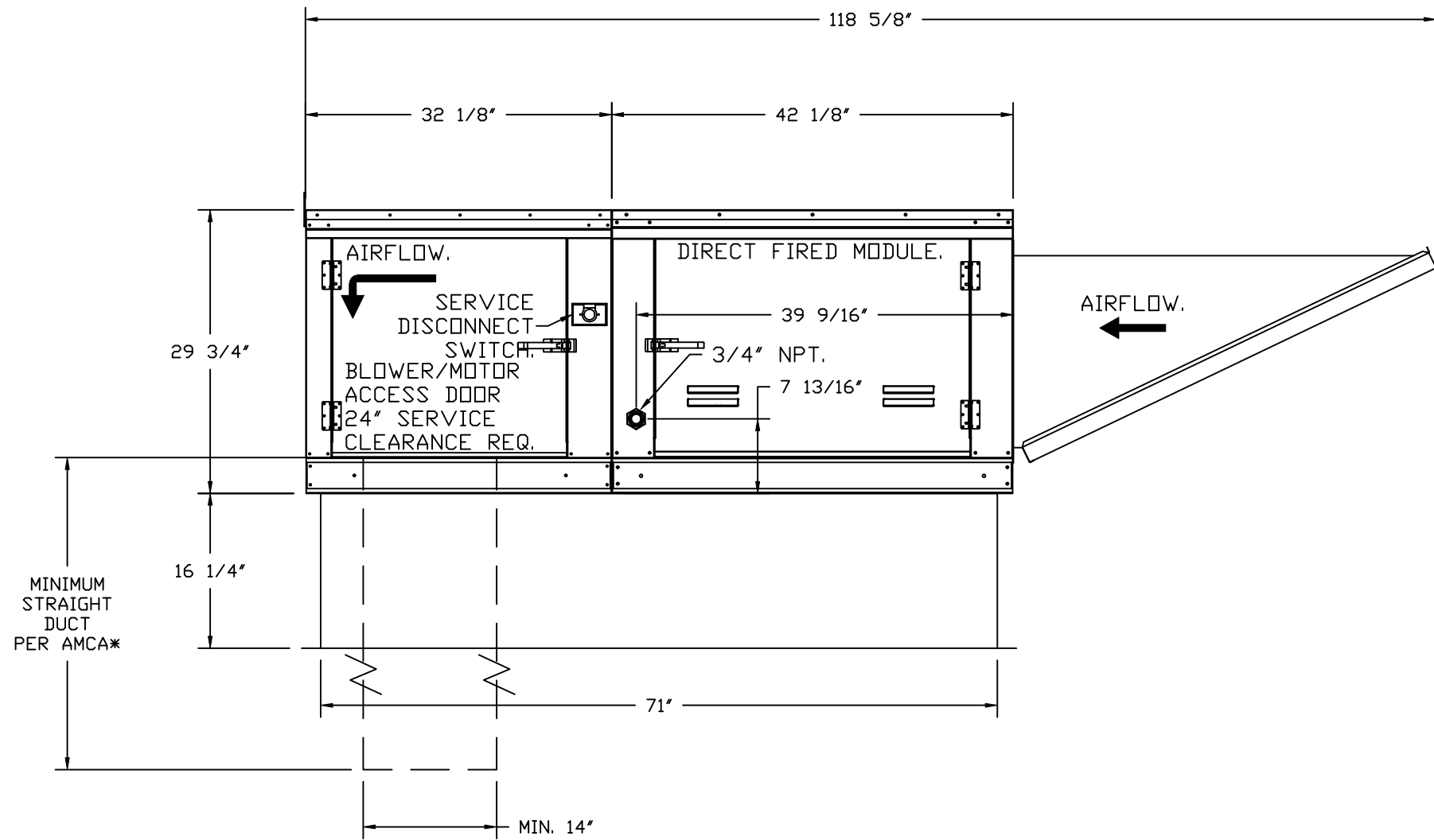
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:

ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:

- PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
- PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
- PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
- DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
- SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



REVISIONS	
DESCRIPTION	DATE:
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CHIPOTLE LAKE ST. LOUIS #4470

LAKE SAINT LOUIS, MO, 63367

DATE: 8/20/2023

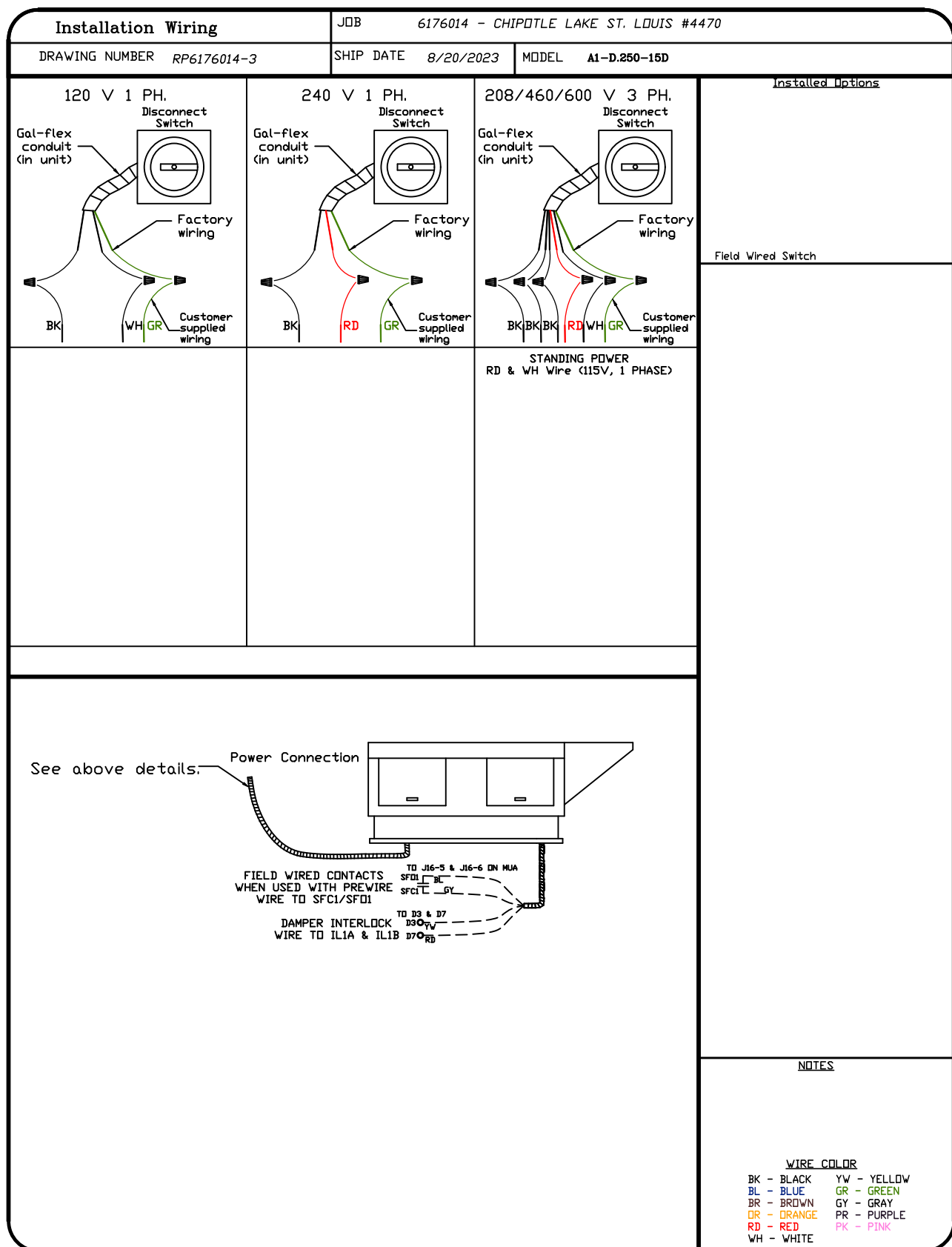
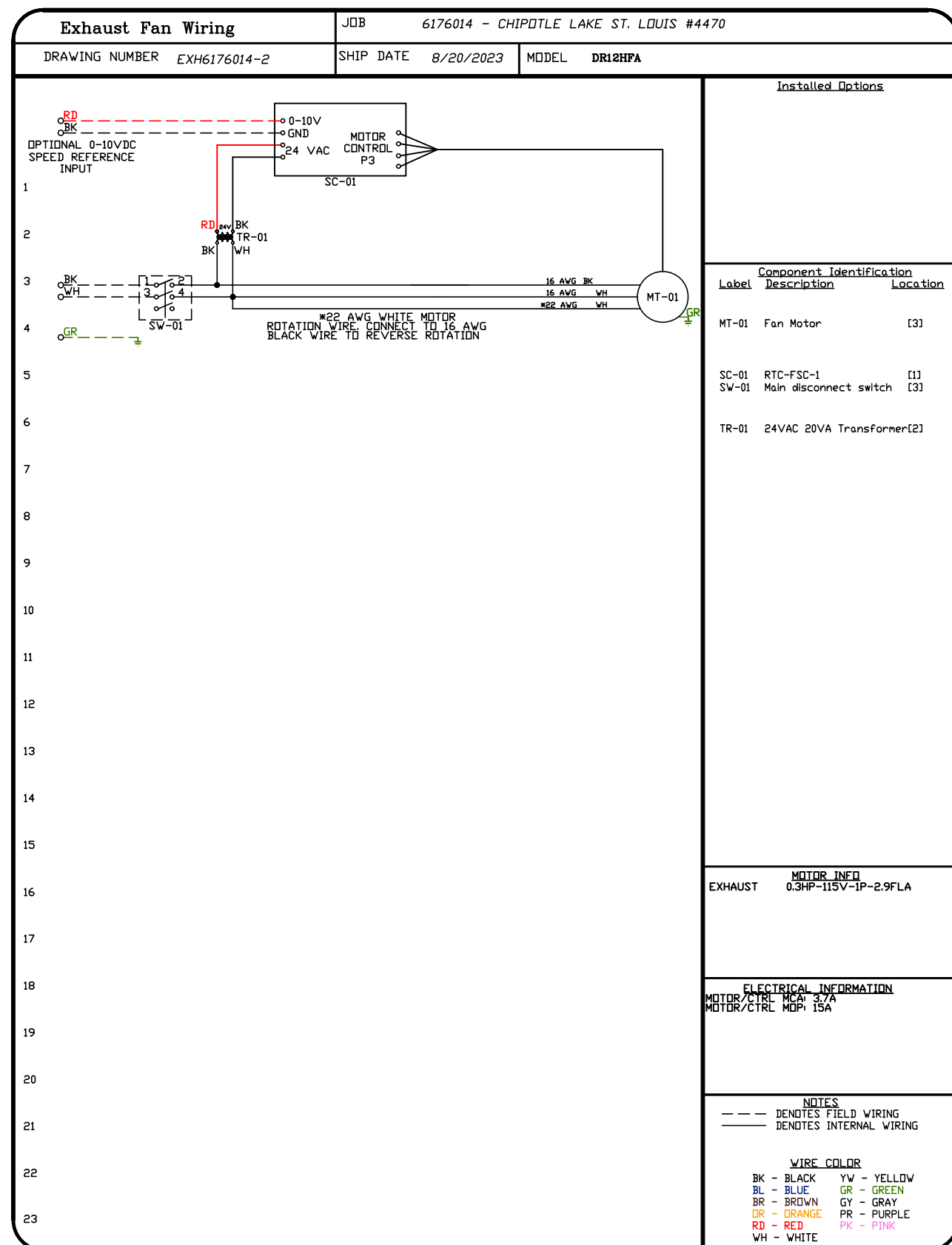
DWG.#: 6176014

DRAWN BY: JMB-40

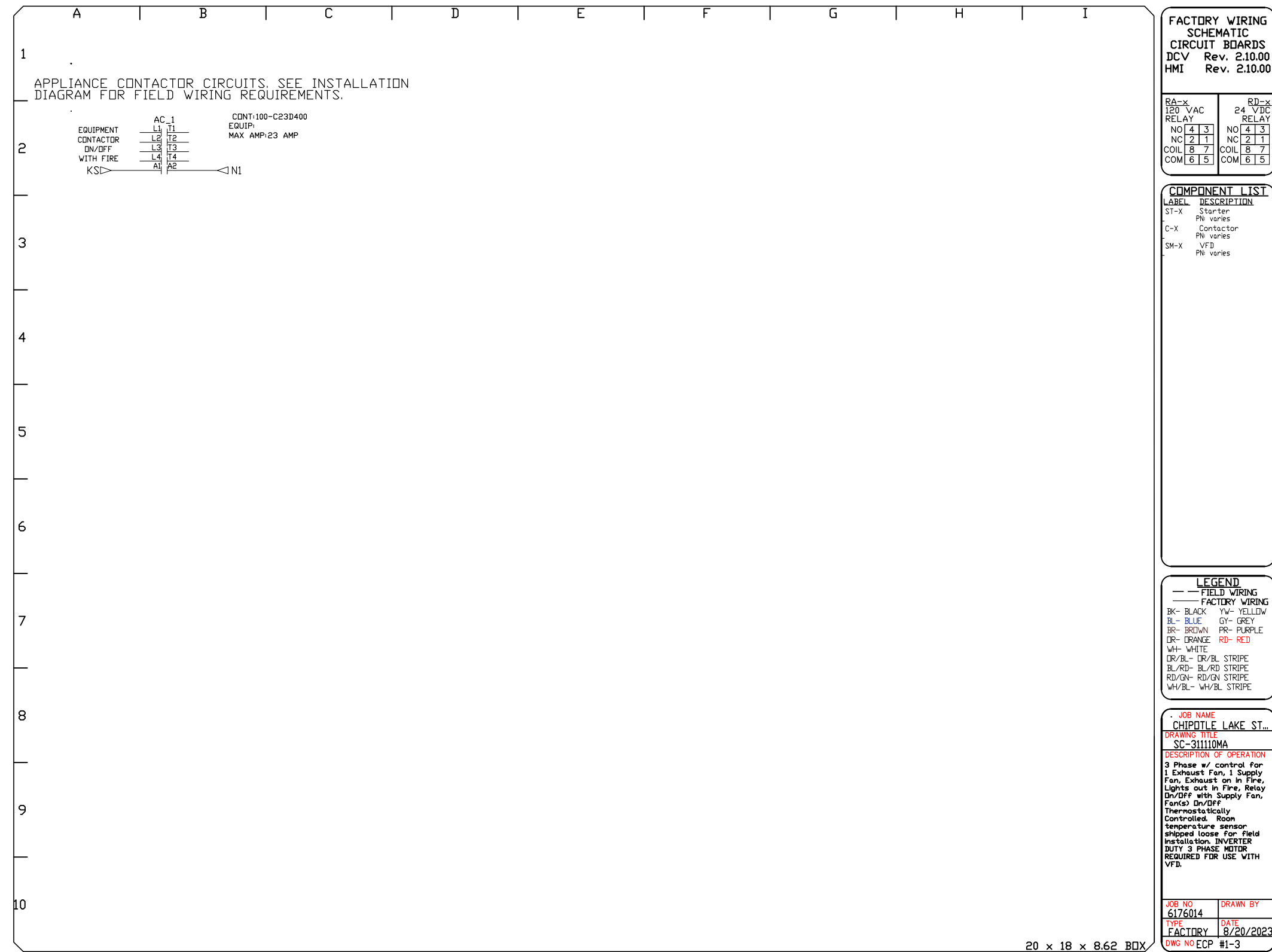
SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 5



NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED											
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLTS	FLA						
1		SC-311110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	3.000	208	10.2						
				HODD # 1	1 FAN								MAU-1	SUPPLY	3	2.000	208	6.1



SHEET NO.
7

FOR QUESTIONS, CALL THE
Highwoods Group
REGION 40
PHONE: (919) 875 - 0420
EMAIL: reg40@captiveaire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#6176014

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP				END TO END	RDW
1		5424 ND-2-ACPSP-F	CAPTIVEAIRE	14' 3'	600 DEG	I	HEAVY	225	3200	10"	15"	4"		1600	1536	-0.854"	1950	798	430 SS WHERE EXPOSED	ALONE	ALONE
										10"	15"	4"		1600	1536	-0.854"					

HOOD INFORMATION

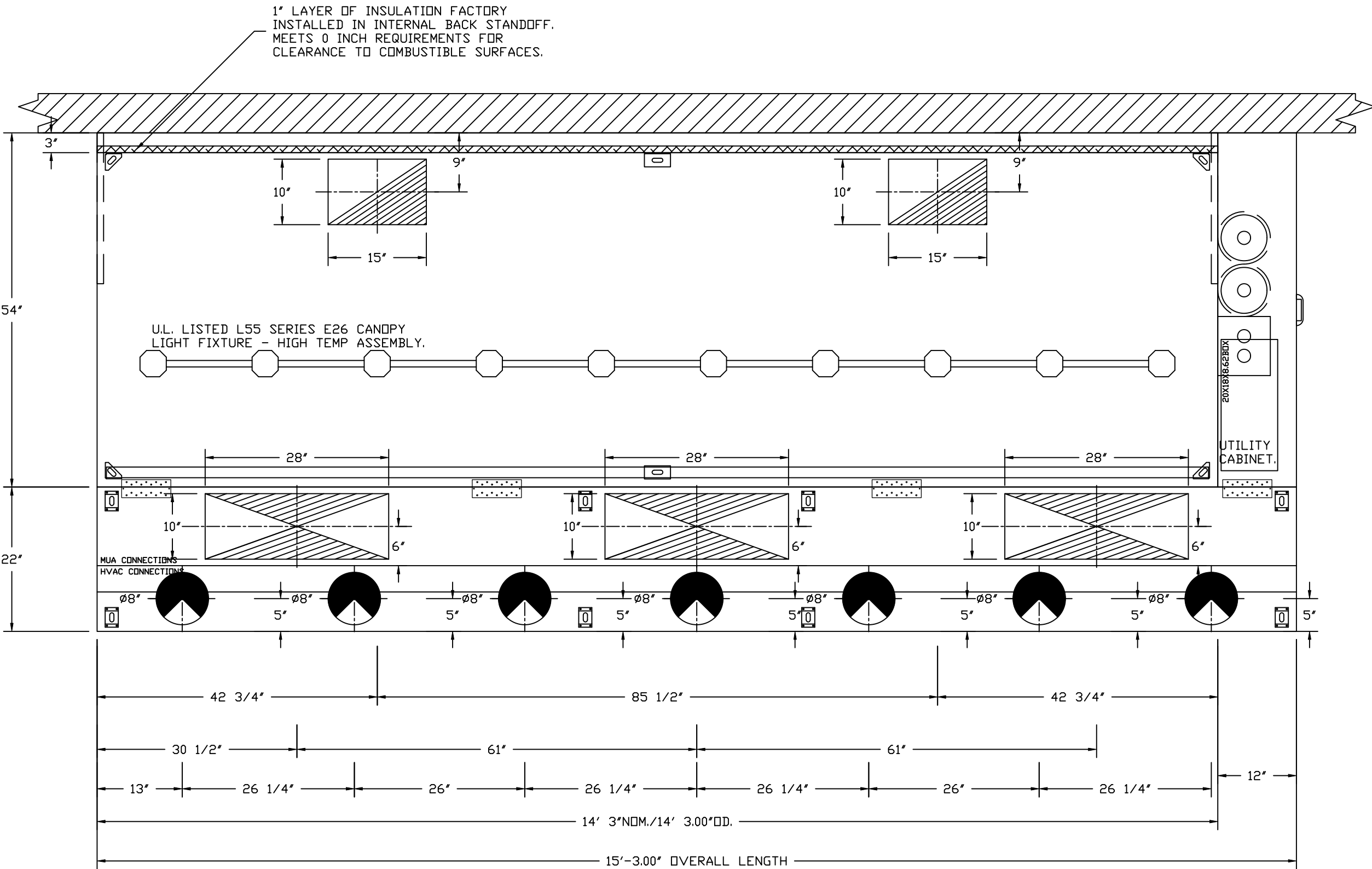
HOOD NO	TAG	FILTER(S)					LIGHT(S)				UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY		
1		CAPRATE SOLID FILTER	10	16"	16"	85% SEE FILTER SPEC	10	L55 SERIES E26	NO	RIGHT	12"x54"x24"	ANSUL R-102	3.0/3.0	SC-311110MA	1 LIGHT 1 FAN	YES	1085 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 12.00" HIGH FRONT, LEFT, RIGHT. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. INSULATION FOR BACK OF HOOD. FULL DIMENSION HANGING BRACKET - FRONT.

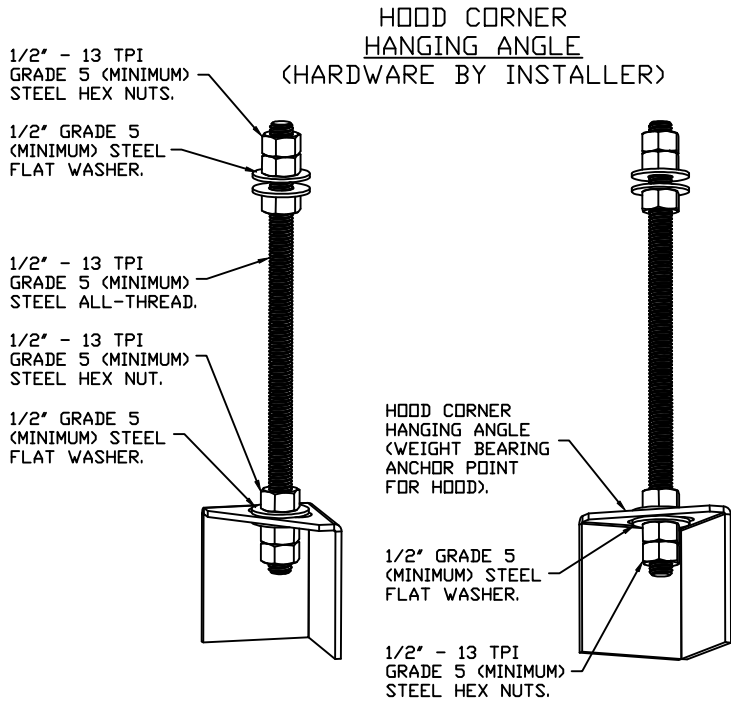
PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1		Front	183"	22"	6"	MUA	10"	28"		650	0.166'
						MUA	10"	28"		650	0.166'
						MUA	10"	28"		650	0.166'
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"
						AC			8"	114	0.041"



PLAN VIEW - HOOD #1
14' 3.00" LONG 5424ND-2-ACPSP-F
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12" AND LONGER.

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION



ASSEMBLY INSTRUCTIONS

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

SPECIFICATION: CAPRATE® GREASE-STOP® SOLID FILTER

THE CAPRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

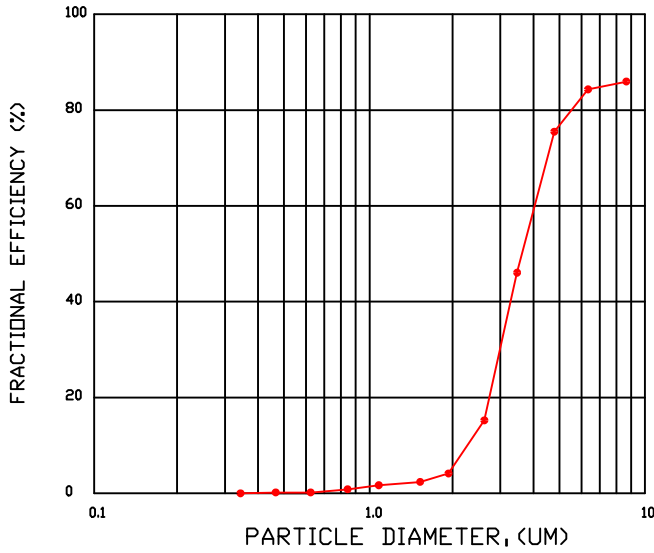
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

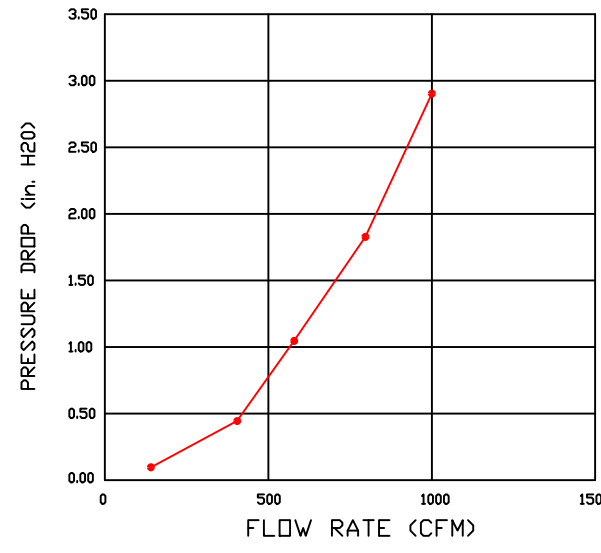
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05, MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

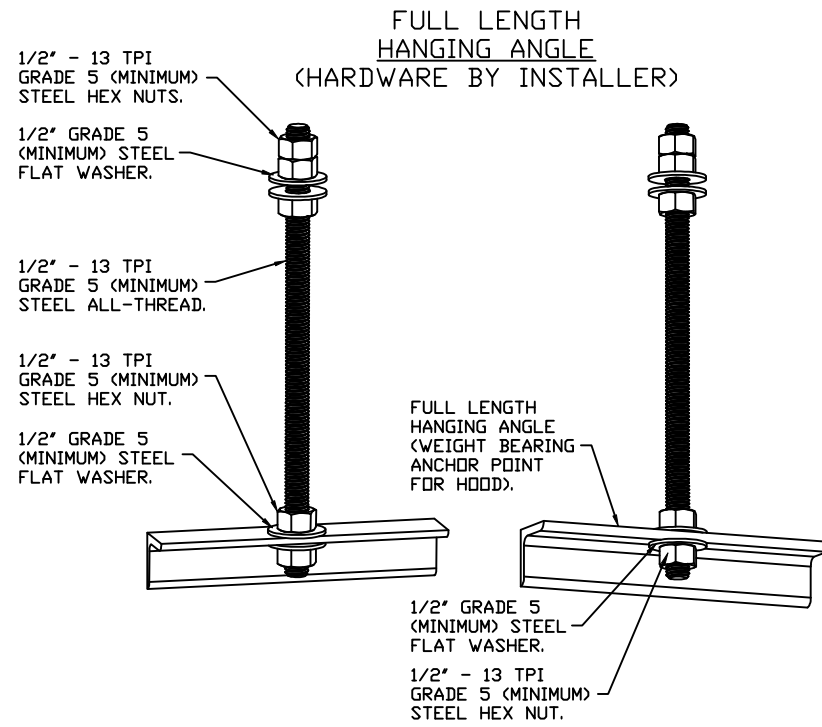
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE

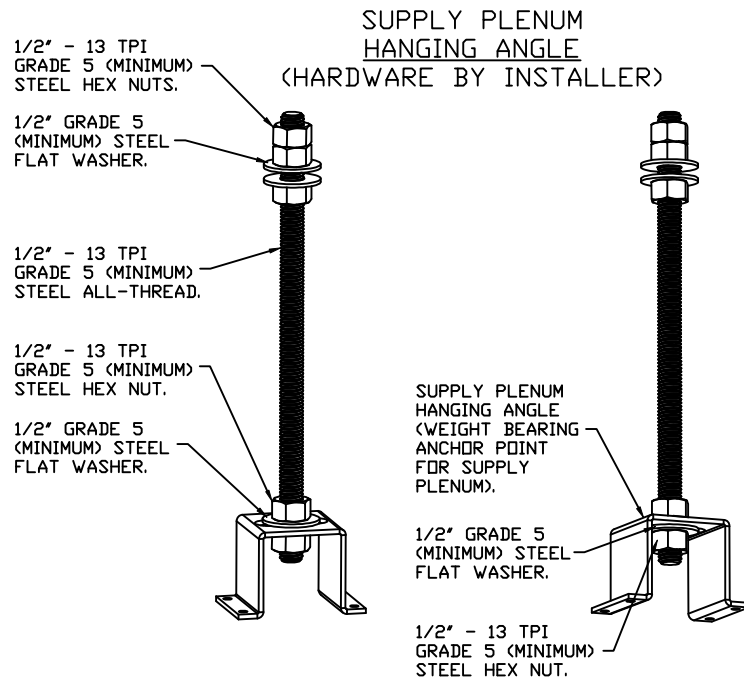


CAPRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



ASSEMBLY INSTRUCTIONS

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



ASSEMBLY INSTRUCTIONS

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

SUBMITTAL REVIEW STAMP

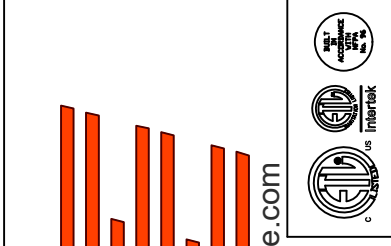
- ☒ NO EXCEPTION TAKEN
☐ REVISE AND RESUBMIT
☐ APPROVED AS NOTED
☐ REJECTED

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This review is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating work with that of all other trades; and performing work in a safe and satisfactory manner.

Blanchard AE Group, LC.

Date: 8-21-2023 By: Lizzy Overschmidt

REVISIONS	
DESCRIPTION	DATE:



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CHIPOTLE LAKE ST. LOUIS #4470

LAKE SAINT LOUIS, MO, 63367

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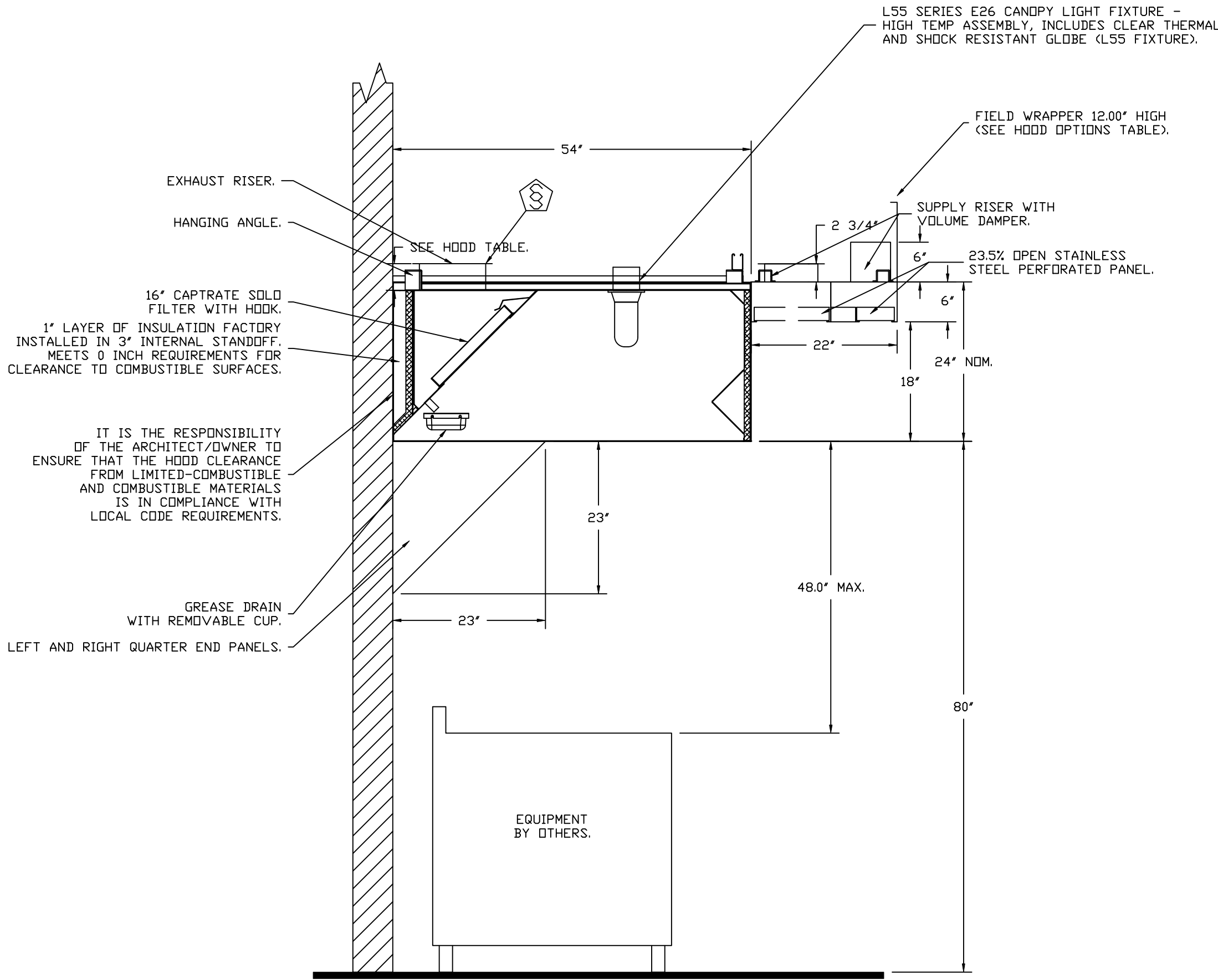
DRAWN BY: JMB-40

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

1



SECTION VIEW - MODEL 5424ND-2-ACPSP-F
HOOD - #1

FIRE SYSTEM INFORMATION - JOB#6176014

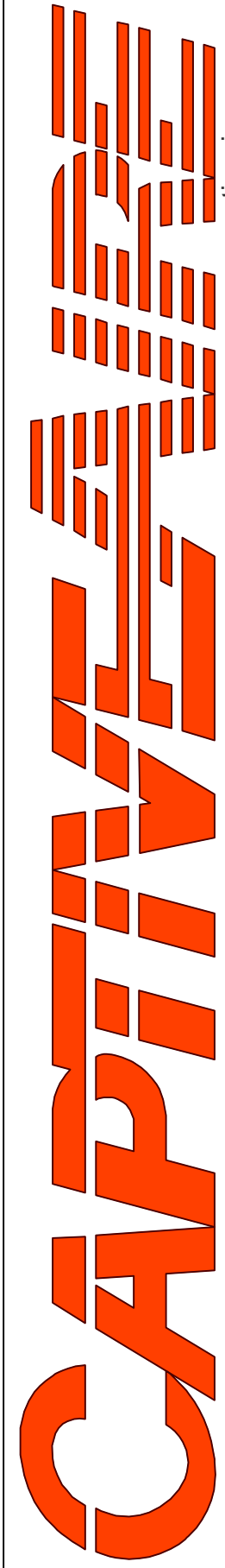
FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0	13	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		MECHANICAL	1.500	CAPTIVEAIRE SYSTEMS

REVISIONS

DESCRIPTION	DATE:



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CHIPOTLE LAKE ST. LOUIS #4470
LAKE SAINT LOUIS, MO, 63367

DATE: 8/20/2023

DWG.#:
6176014

DRAWN BY: JMB-40

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
2

EXHAUST FAN INFORMATION – JOB#6176014

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF-1	1	DU240HFA	CAPTIVEAIRE	3200	1.200	780	DDP,PREMIUM	3.000	1.3030	3	208	10.2	727 FPM	305	12.4
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.600	1293	TEAD-ECM	0.250	0.0940	1	115	2.9		50	6.2

MUA FAN INFORMATION – JOB#6176014

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SDNES
3	MAU-1	1	A1-D.250-15D	15MF-1-MDD	A1-D.250	1000	1950	0.500	2044	DDP,PREMIUM	2.000	1.3430	3	208	6.1	7.7A	15A	500	20.3

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)	
3	MAU-1	142251	130871	64°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92	FAN #1 DU240HFA – EXHAUST FAN (EF-1)

FAN OPTIONS

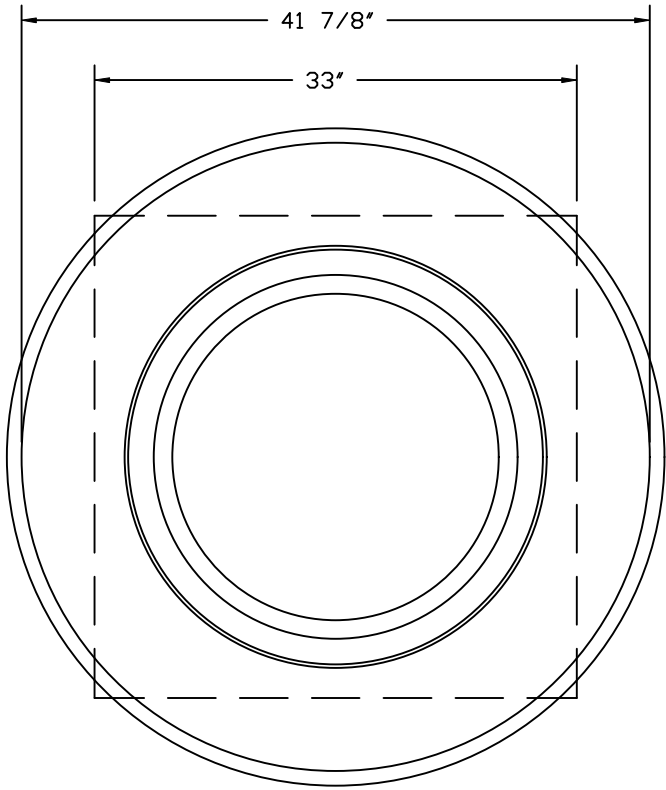
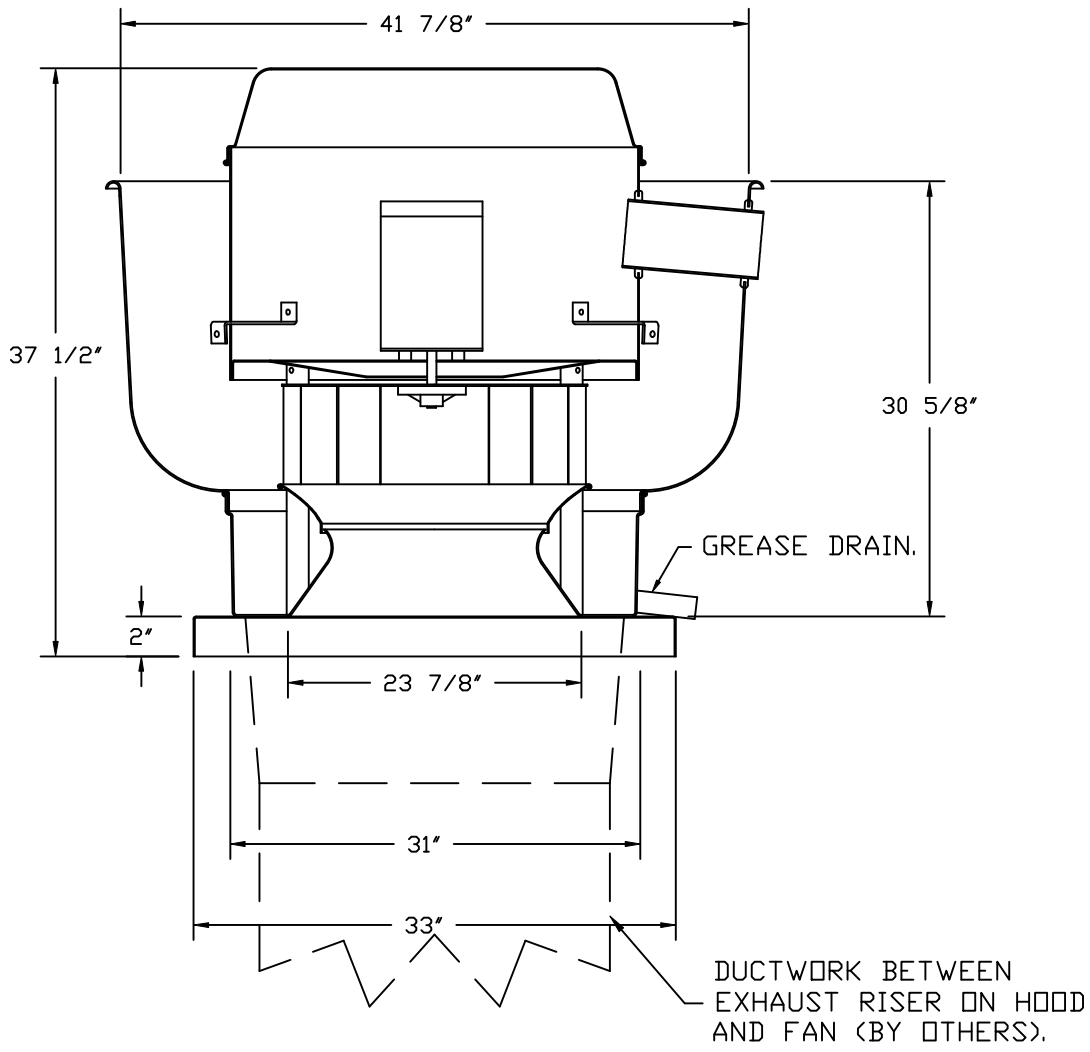
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	I 12-BDD DAMPER
		1	ECM WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL –RTC- (TELCD MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING – MEETS AMCA CLASS 1A RATING
		1	LOW FIRE START
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) – THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

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

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1		43 LBS	CURB	31.500"W X 31.500"L X 20.000"H VENTED.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.
3	# 3	MAU-1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H INSULATED.



TOP VIEW

FEATURES:

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

NORMAL TEMPERATURE TEST

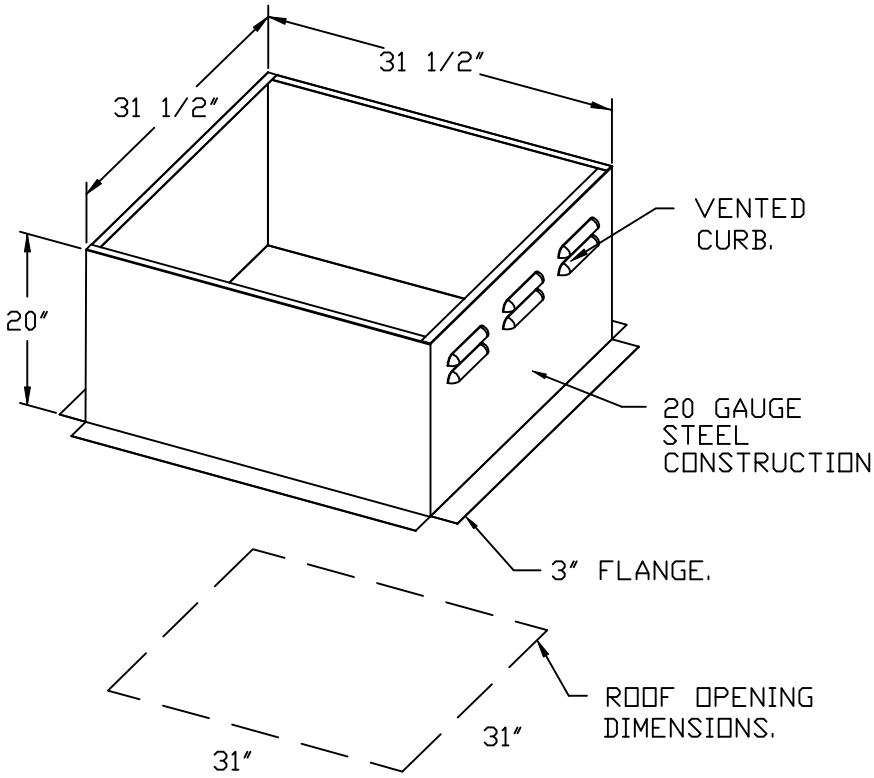
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

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

OPTIONS

- GREASE BOX.
- REMOVE HINGE KIT LABEL FROM THE FAN BASE.
- 2 YEAR PARTS WARRANTY.



REVISIONS

DESCRIPTION	DATE:
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Highwoods Group

4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875 - 0420 FAX: 9198760577 EMAIL: reg40@captiveaire.com

CHIPOTLE LAKE ST. LOUIS #4470
LAKE SAINT LOUIS, MO, 63367

DATE: 8/20/2023

DWG.#: 6176014

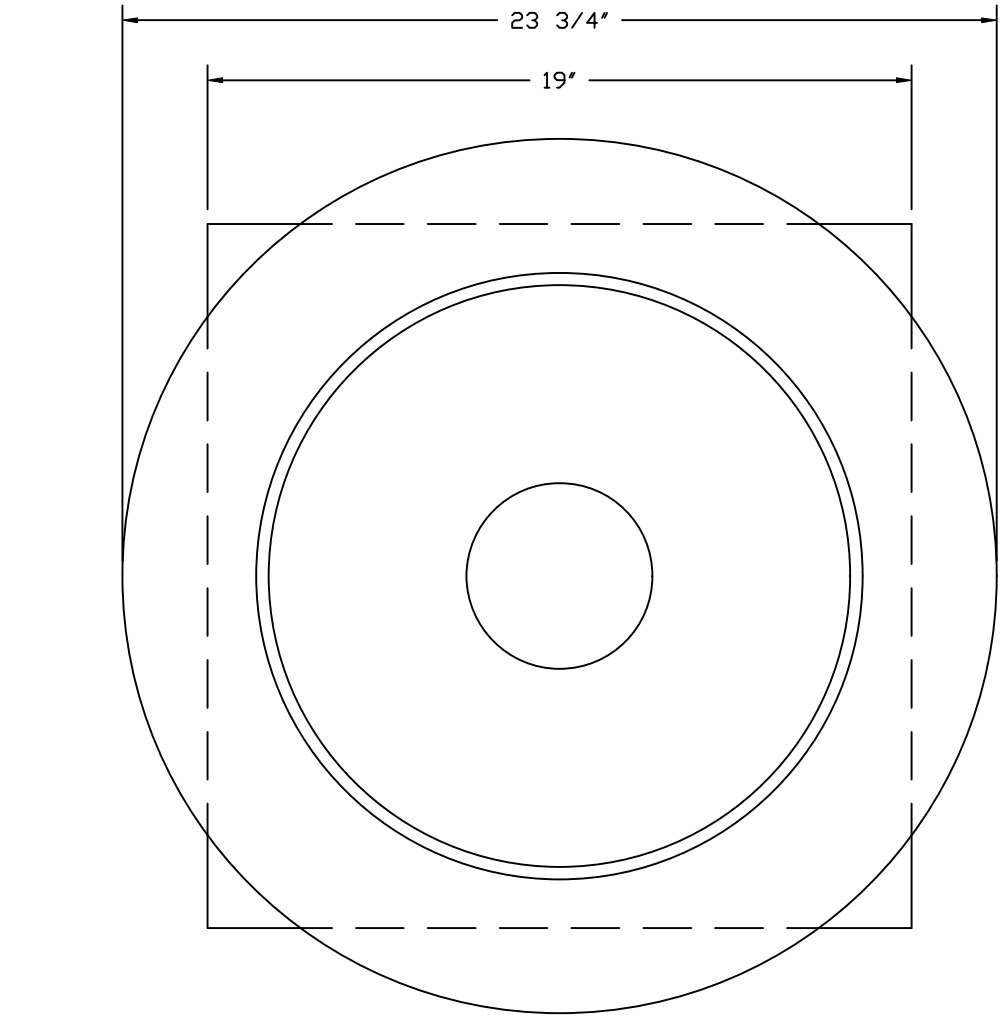
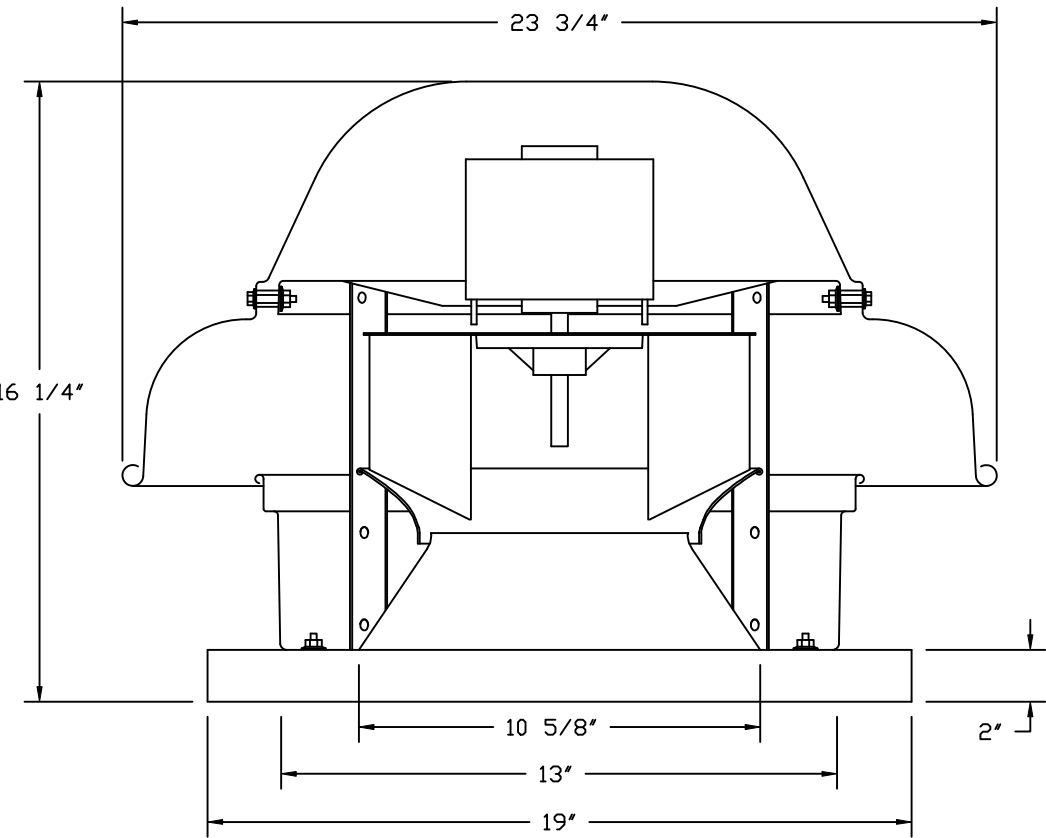
DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 3

FAN #2_DR12HFA – EXHAUST FAN (FF-2)



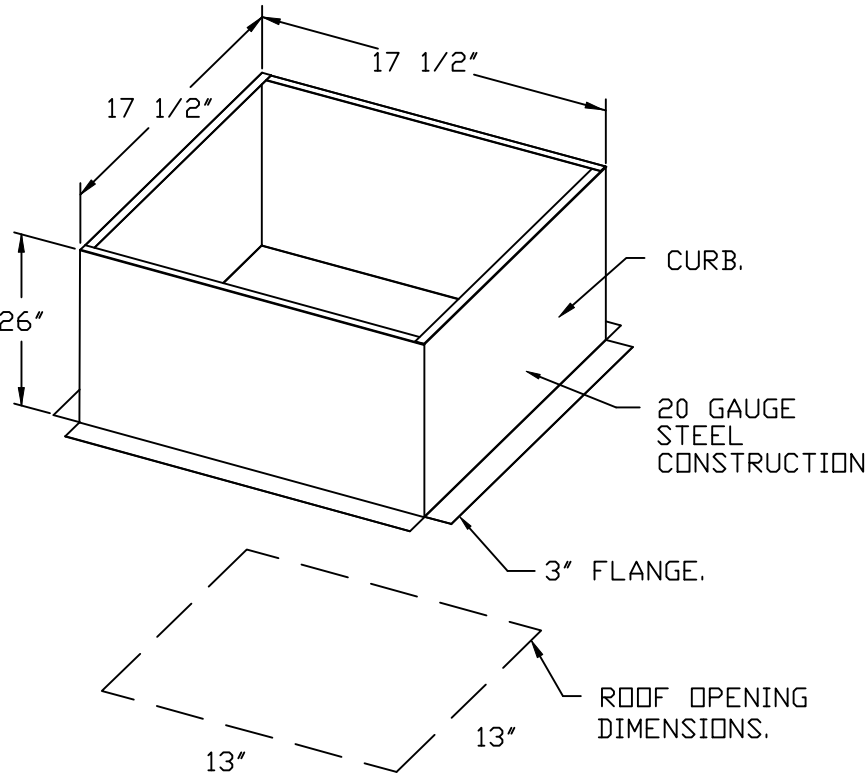
TOP VIEW

FEATURES:

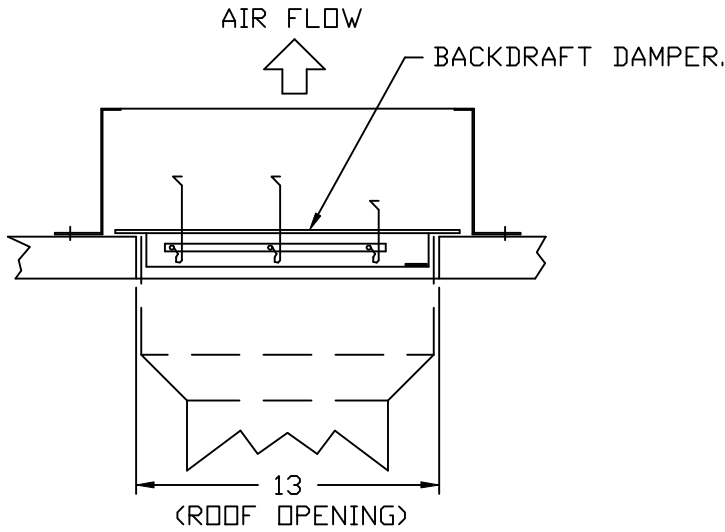
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS

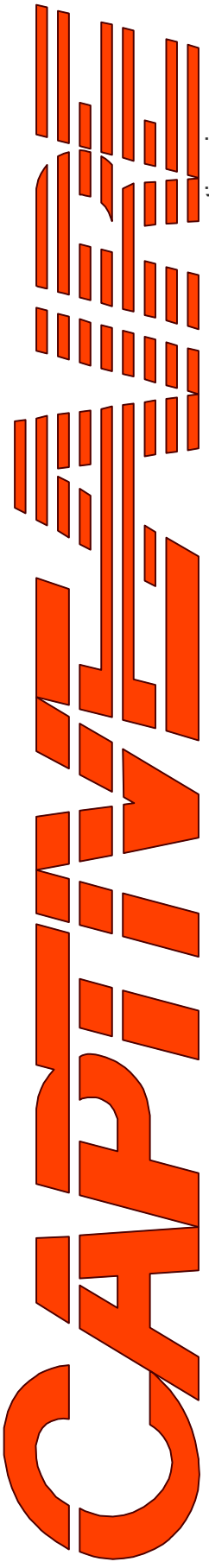
- 1 12-BDD DAMPER.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL.
- RTC - (TCLCD MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

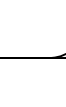
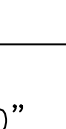
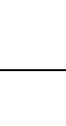
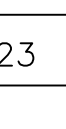
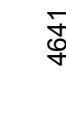
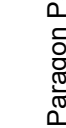
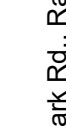
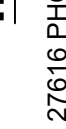
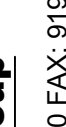
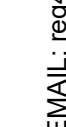
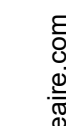


BACKDRAFT DAMPER INSTALLATION



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CHIPOTLE LAKE ST. LOUIS #4470

LAKE SAINT LOUIS, MO, 63367

DATE: 8/20/2023

DWG.#: 6176014

DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

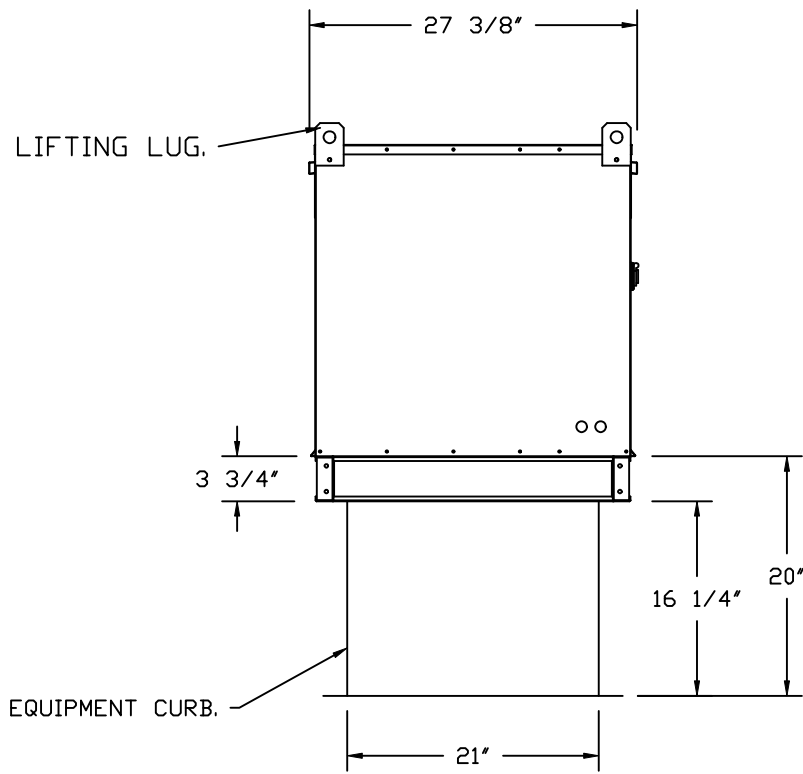
MASTER DRAWING

SHEET NO.

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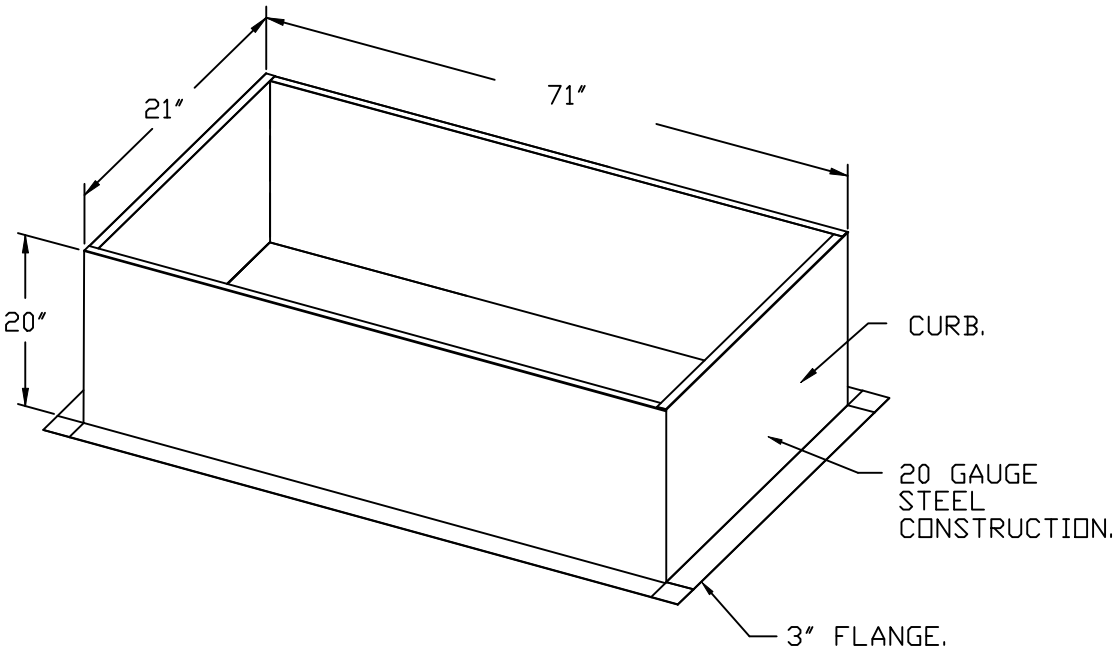
- FAN #3 A1-D250-15D - HEATER (MAU-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
2. INTAKE HODD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, 1FBI20S ACTUATOR INCLUDED.
5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
8. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
9. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
10. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
11. 2 YEAR PARTS WARRANTY

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".



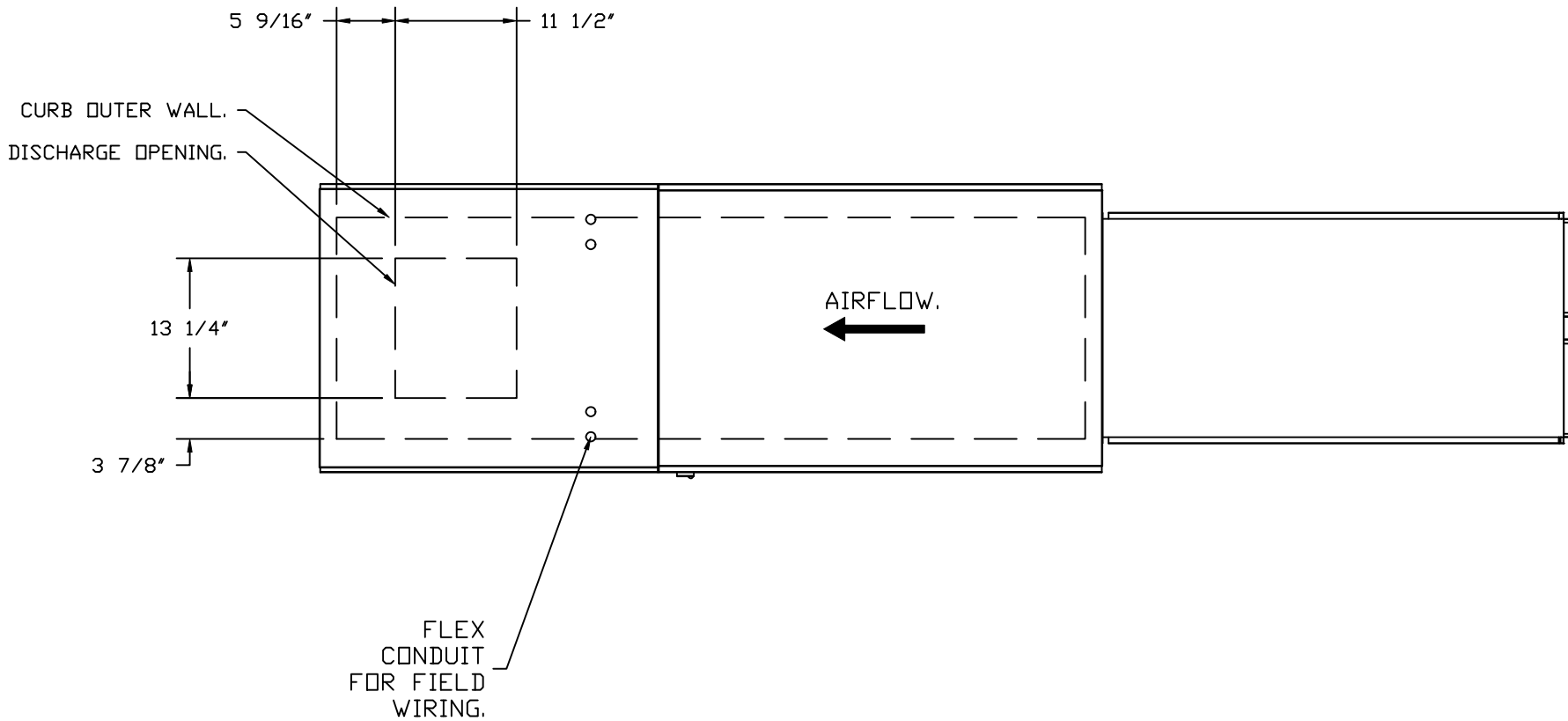
ROOF OPENING 2" SMALLER THAN CURB DIMENSION.

OPTIONS:
- FULL BOTTOM CORNERS.



SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 11°F. TEMP. RISE = 64°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 133329.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 144923.
OUTPUT BTUs AT ALTITUDE OF 514 FT. = 130871.
INPUT BTUs AT ALTITUDE OF 514 FT. = 142251.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:

DESCRIPTION:

DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:

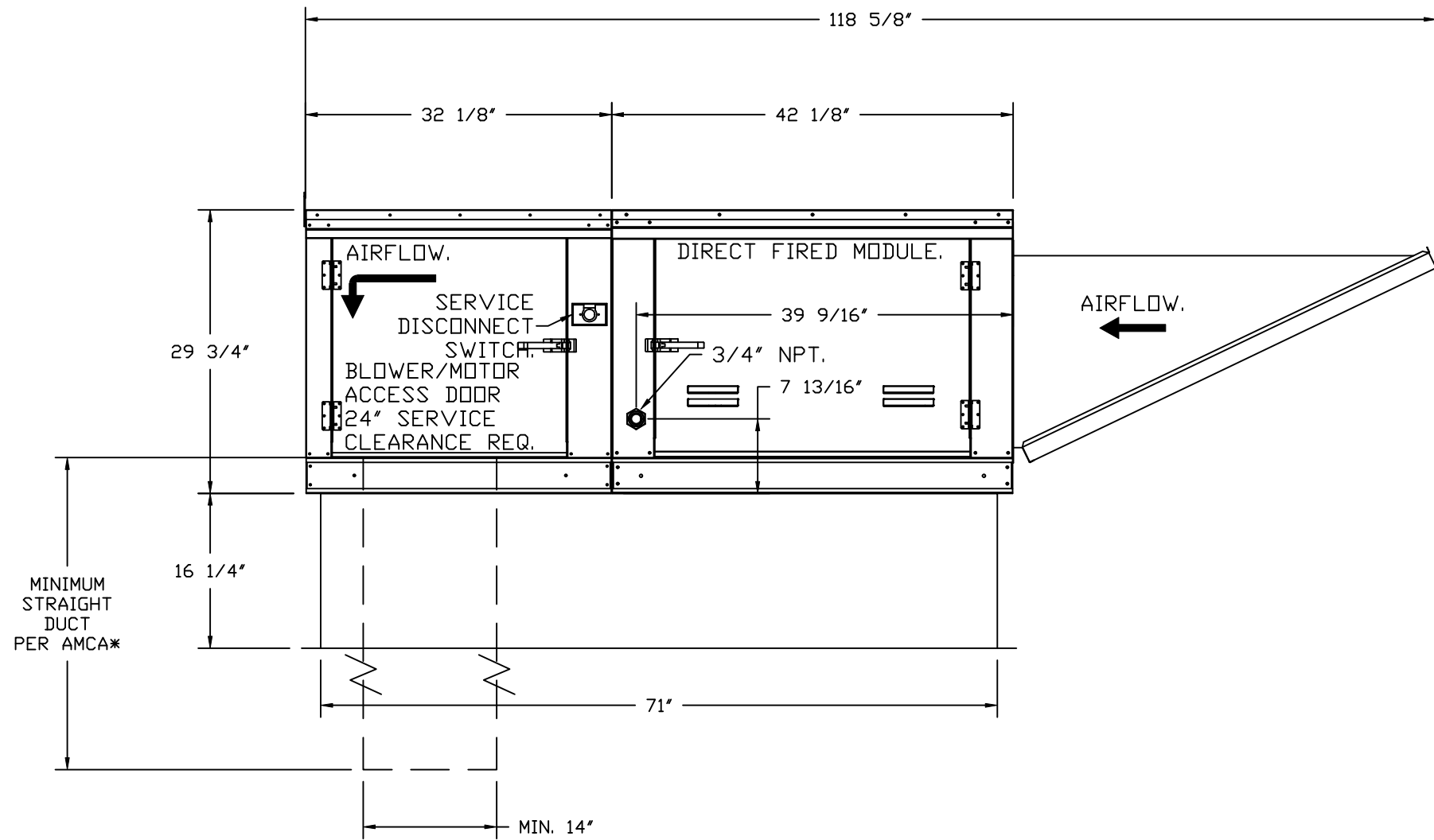
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:

ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:

- PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
- PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
- PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
- DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
- SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



REVISIONS	
DESCRIPTION	DATE:
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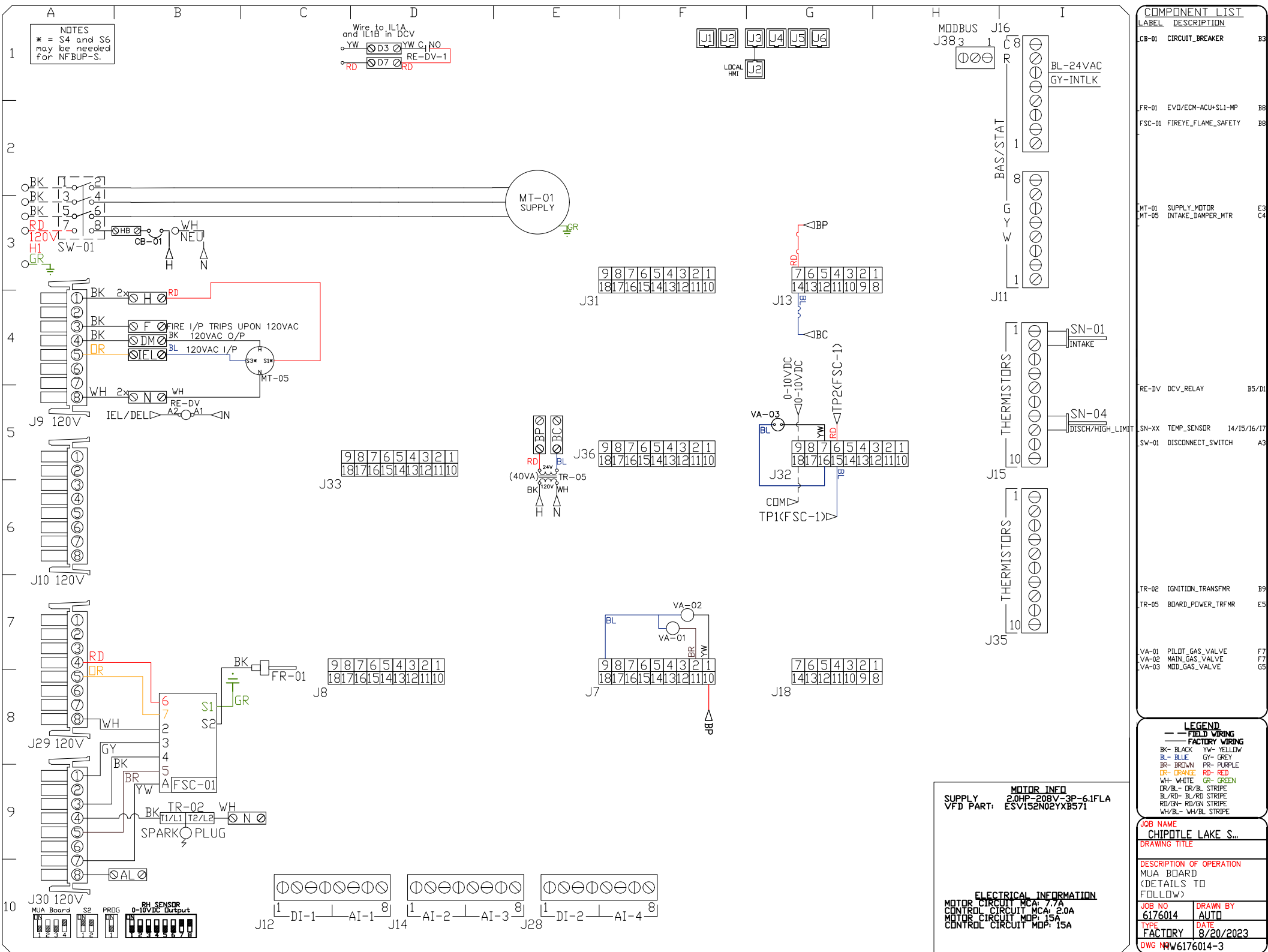
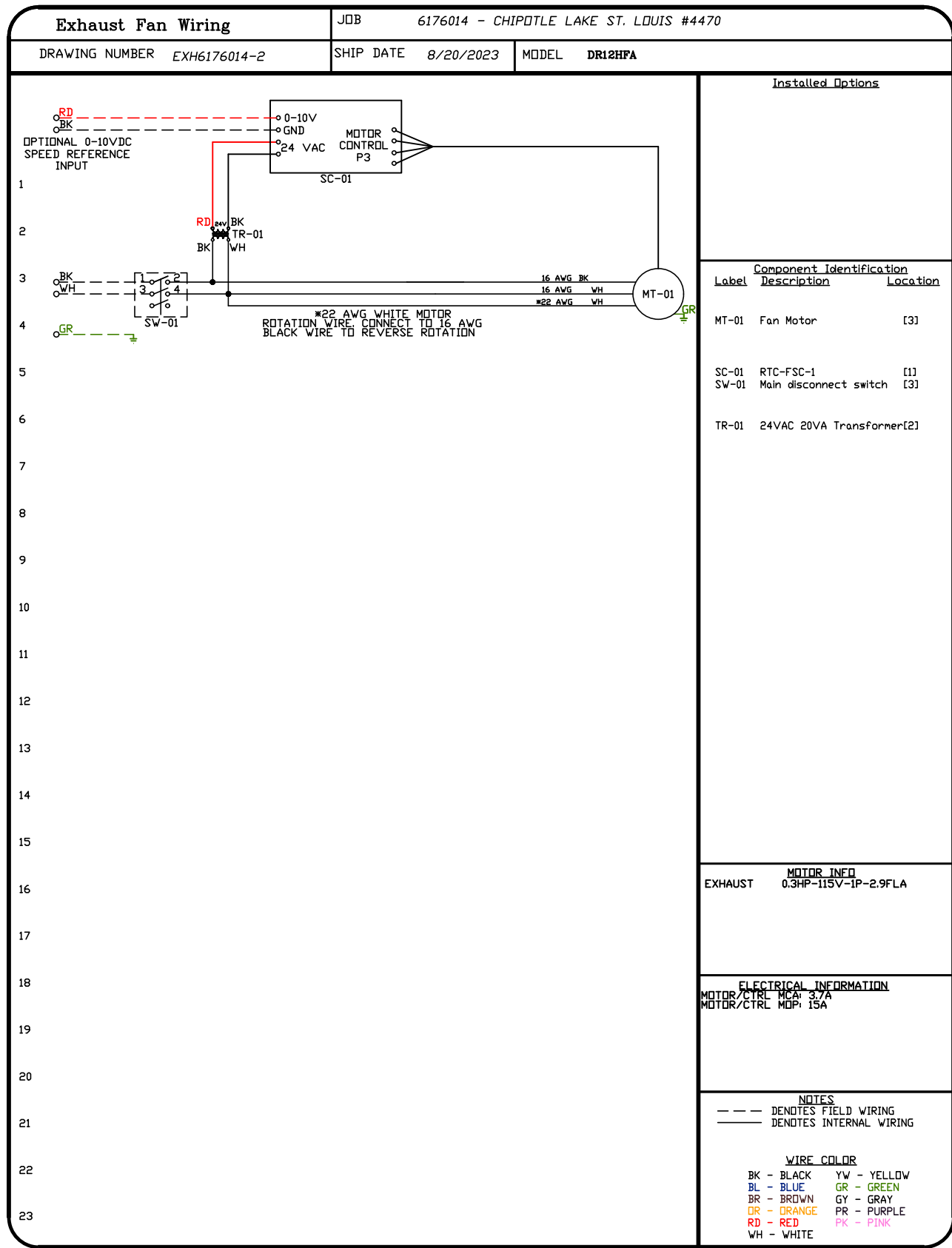
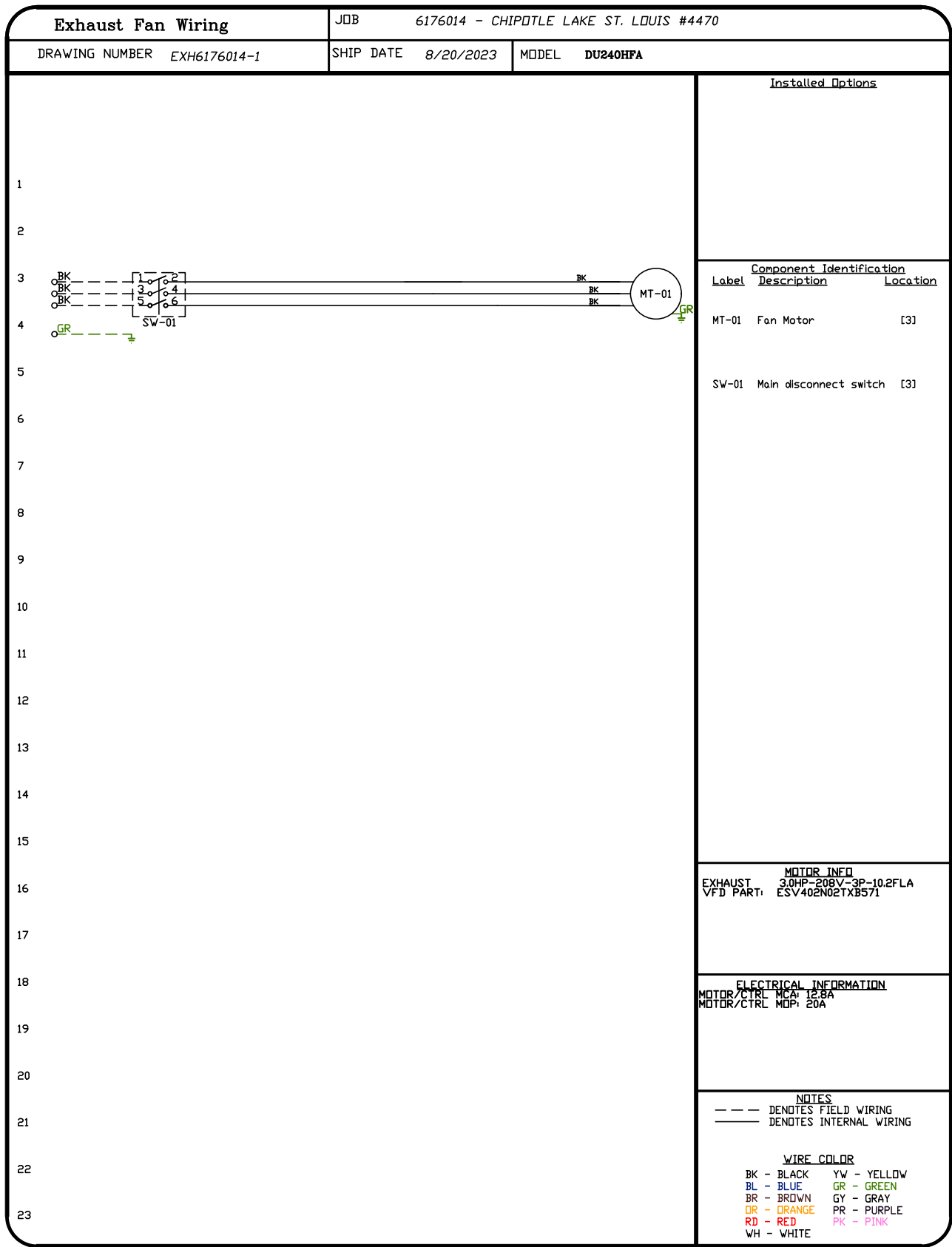
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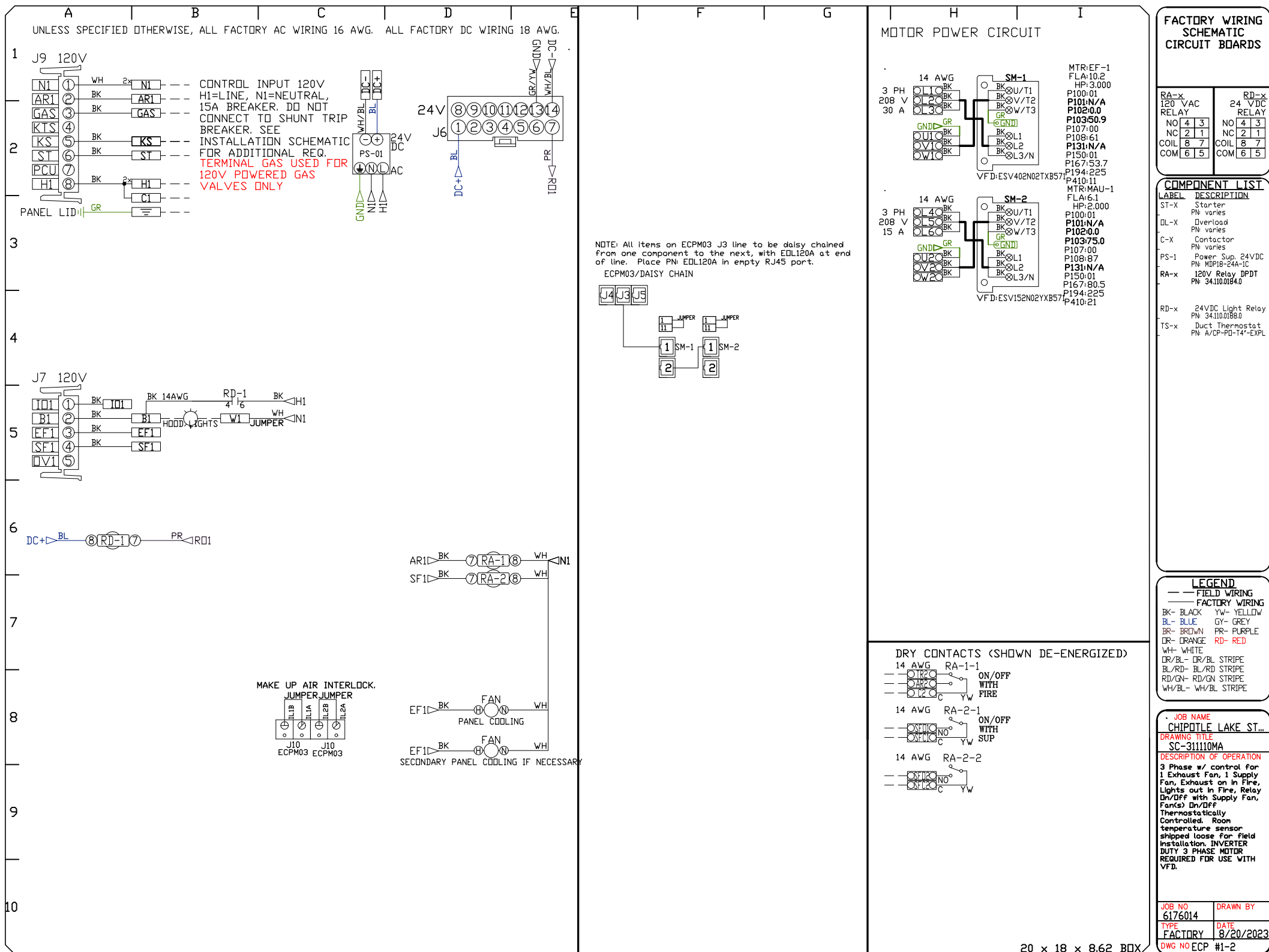
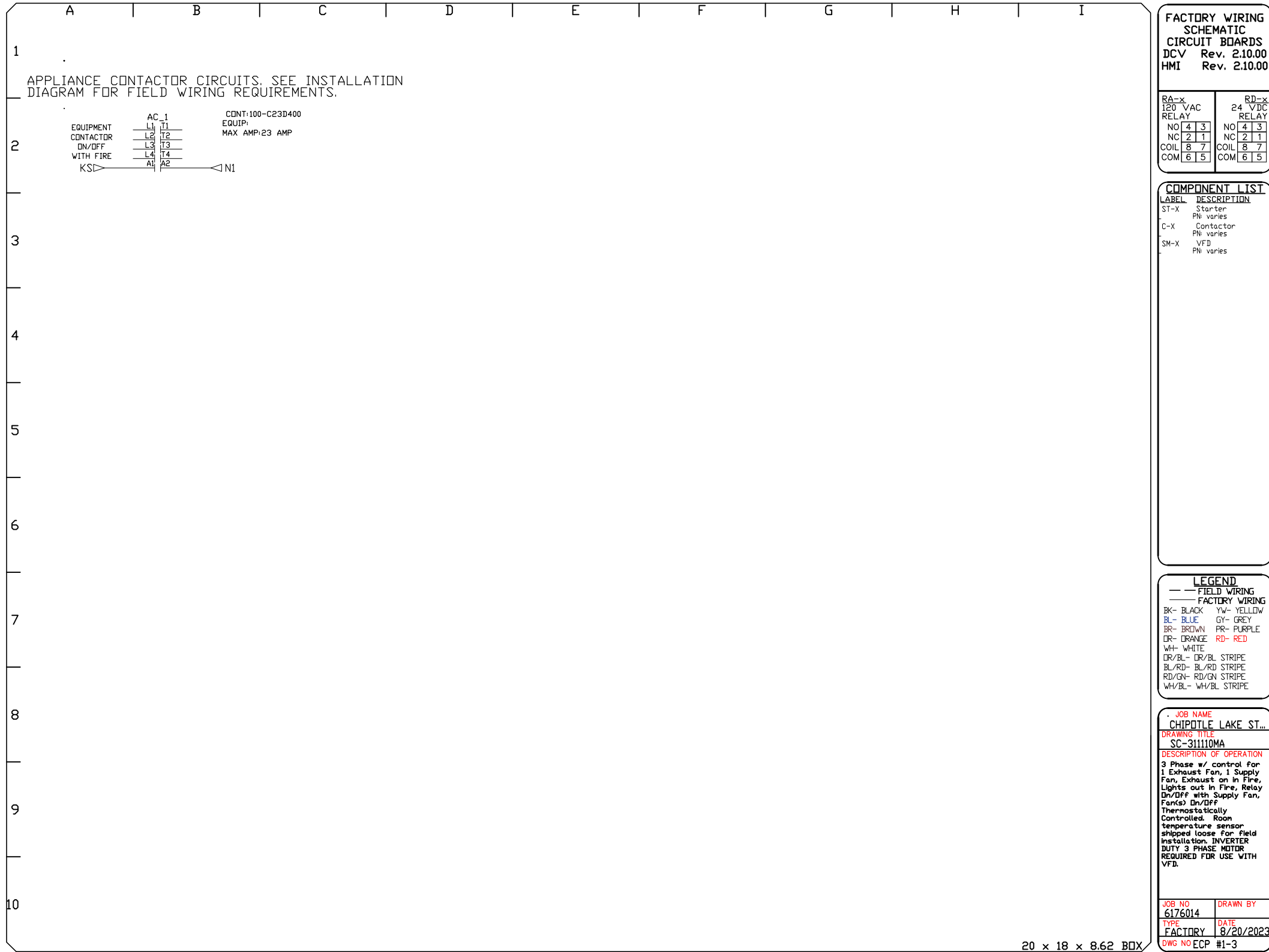
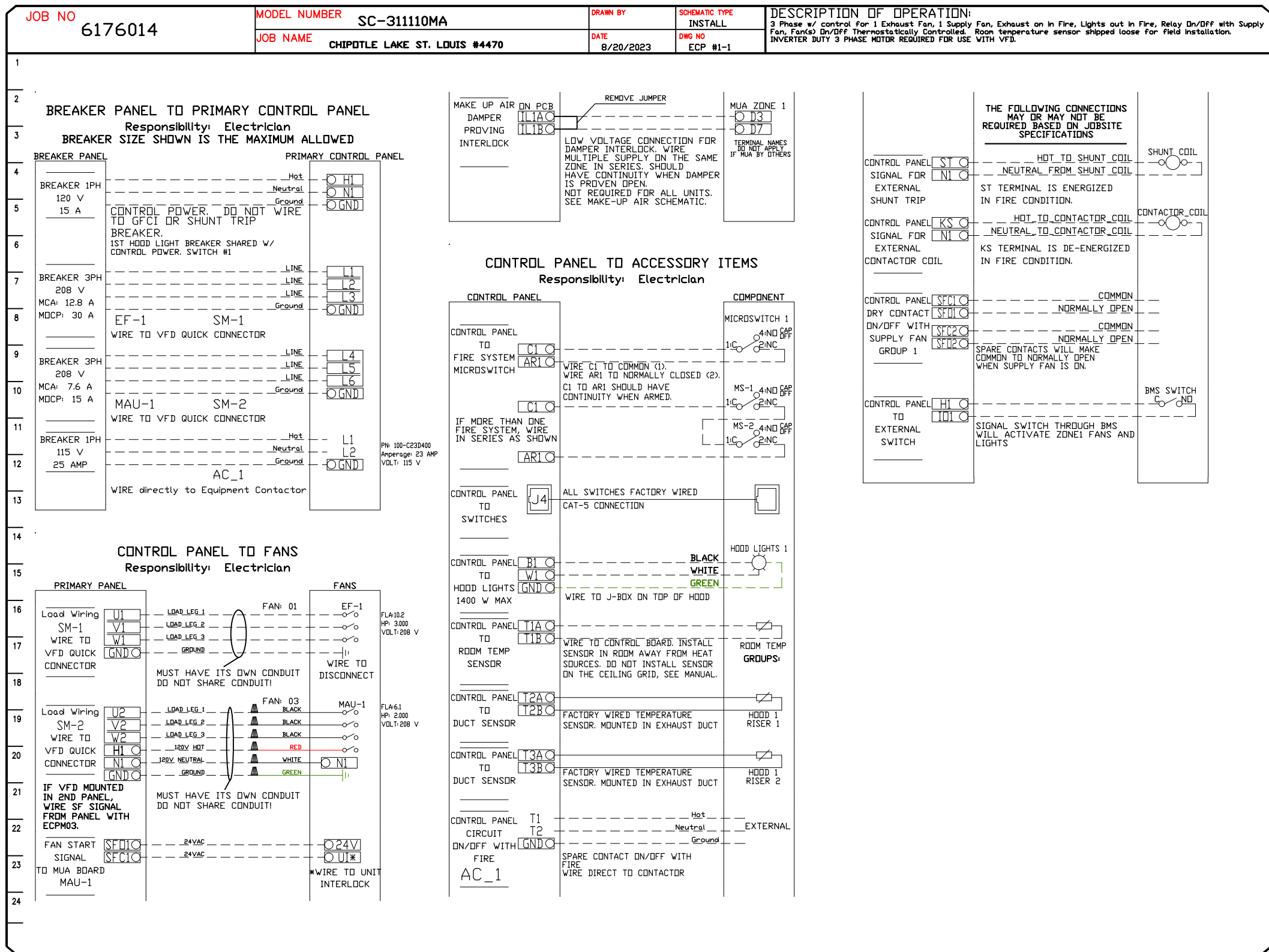
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SHEET NO. 5



ELECTRICAL PACKAGE - JOB#6176014

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT FLA
1		SC-311110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT HOOD # 1	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	3.000	208 10.2
							MAU-1	SUPPLY	3	2.000	208 6.1



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DESCRIPTION	DATE:

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DATE: 8/20/2023

DWG.#: 6176014

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SCALE: 3/4" = 1'-0"

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SHEET NO. 7