

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, 3 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. MOUNTING: COUNTERSUNK SCREW.
 - 6. REFRIGERANT COILS: ALUMINUM FINES AND COPPER COIL.
 - 7. COMPRESSORS: SERVICEABLE; HERMETIC OR FULLY HERMETIC, WITH SAFETY CONTROLS, HOT GAS BYPASS, AND THERM OFF CONTROLS.
 - 8. HEAT EXCHANGERS: GAS-FIRED, WITH GAS CONTROLS, ELECTRONIC IGNITION, HIGH LIMIT CUTOUT, AND FORCED DRAFT PULLING SWITCH.
 - 9. ECONOMIZER CONTROLS (COMPARATIVE ENTHALPY, 100% CAPACITY).
 - 10. SMOKE DETECTORS: PHOTOELECTRIC IN SUPPLY AND/OR RETURN AS CALLED FOR IN SCHEDULE ON SHEET M600.
 - 11. OPERATING CONTROLS: TWO STAGE HEATING AND TWO STAGE COOLING ON UNITS 7-1/2 TONS AND OVER.
 - 12. FURN. CURB.
 - 13. CONTROL WIRING FROM T-STAT TO ROOFTOP UNIT: SHALL BE 18GA / 7 CONDUCTOR, RATED FOR PLENUM APPLICATIONS.
 - 14. CONTROL WIRING FROM T-STAT TO REMOTE T-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: AAAC CERTIFIED (TO BE FURNISHED BY OWNER).

PART 2 - PRODUCTS

- 2.1 DUCTS
- A. SPIRAL DUCT: SPIRAL LOCK SEAM, WITHOUT INSULATION, 600 GALVANIZED FINISH, ASTM A-663/924
 - 1. BASIS OF DESIGN MANUFACTURERS: KNOWN SPIROFLEX, 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 30" OR SMALLER SHALL BE 20 GAUGE, FITTINGS WITH A MAJOR AXIS OF 31" - 48" SHALL BE 18 GAUGE.
 - B. GALVANIZED STEEL SHEET: FORMING STEEL, ASTM A 653/633, G90 COATING DESIGNATION.
 - C. DUCT LINER: ASTM C 2071, 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 TAPS: 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 I.
- D. FLEXIBLE DUCTS: FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH AN OUTER JACKET ENCLOSED 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 M600.
 - G. INSTALL VOLUME CONTROL DAMPERS IN LINED DUCT WITH METHODS TO AVOID DAMAGE TO LINER AND TO AVOID FROSION OF DUCT LINER.
 - H. INSTALL FIRE AND SMOKE DAMPERS ACCORDING TO MANUFACTURERS UL APPROVED WRITTEN INSTRUCTIONS.
 - I. INSTALL FLEXIBLE LINES IN DAMPERS.
 - J. PROVIDE SADDLE TAPS AT TEES FOR EXPOSED DUCTWORK.
- 3.2 TESTING, ADJUSTING, AND BALANCING
- A. THE OWNER WILL SUPPLY AN INDEPENDENT BALANCE AGENT TO TO BALANCE AND ADJUST THE HVAC INSTALLATION. THE BALANCE AGENT IS RESPONSIBLE FOR ANY PENALTIES OR BEEF CHARGES 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 SUBMANS, BRANCHES, AND TERMINALS TO INDICATED QUANTITIES +/- 10%. THE HOOD EXHAUST SYSTEM SHALL BE BALANCED TO A TOLERANCE OF +/- 10-15% 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 OWNER, 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. DIFFUSERS:
 - 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.
 - B. WALL AND CEILING REGISTERS:
 - 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: COUNTERSUNK SCREW.
 - C. WALL AND CEILING GRILLES:
 - 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: COUNTERSUNK SCREW OR LAY IN, DEPENDING LOCATION.

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 SHEET GOOD 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 MANUFACTURERS 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 RADIUS ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUS 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. PROVIDE LABELING CALLED FOR IN THE HVAC DRAWINGS USING ENGRAVED PHENOLIC PLATES.
- M. PROVIDE P3000 1/2 GA. UNISTRUT WITH PG-H FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

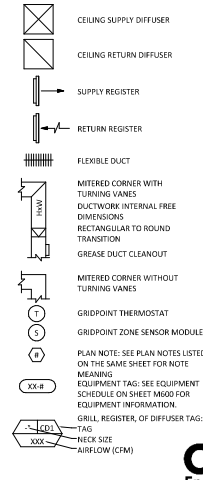
HVAC MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED GENERAL EXHAUST	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST.	RECT. 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.)

HVAC ABBREVIATIONS

AF	ABOVE FINISHED FLOOR
CD	CONDENSATE
CU	CONDENSING UNIT
EF	EXHAUST FAN
EXT'S	EXISTING
HO	HOOD
MUA	MAKEUP AIR UNIT
OPD	OPPOSED BLADE DAMPER
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
CCAS	TENANT'S CO2 ALARM SUPPLIER
CC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
MS	TENANT'S HOOD SUPPLIER
TDC	TENANT DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TMS	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRIS	TENANT'S REFRIGERATION SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS



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10/24/24

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DENVER, CO 80219

Issue/Revised:

10/24/24 ISSUED FOR PERMIT

Drawn: _____

Checked: _____

JW JW

Project No:

CMS 5383

Contract:

HVAC SPECIFICATIONS

M010



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DENVER, CO 80241

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 EMAIL: eng@highwood.com

PATENT NUMBERS
 AC-PSP (UNITED STATES) - US PATENT 7963830 B2
 AC-PSP (CANADA) - CA PATENT 2620255
 AC-PSP (ISLAND GERMANY) - CA PATENT 2620255

HOOD INFORMATION - JOB#6714256

HOOD NO	TAG	MFG	MANUFACTURE	L/FMTH	MAX FPM/NT/IMP	TYPE	APPLNCE BUTY	DESIGN C/P/PT	TOTAL LAM CFM	EXHAUST PLenum					MIA CFM	AC FPM	HOOD CONSTRUCTION	FAN T/END	HOOD CAPACITY		
										WIDTH	LONG	HIGHT	DIA	CFM						VCL	SP
1		5424	ND-2-AC-PSP-F	CAPTIVEARE	12' 9"	1	HEAVY	200	2550	10'	24"	4"	2550	1530	-0.966"	1300	696	450 SF	WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 FEET	QTY	TYPE	WIRE GAUGE	LOCATION	SIZE	UTILITY CABINET(S)			FINE HOOD HANGING SYSTEM	HOOD WEIGHT	
												TYPE	SIZE	MODEL #			
1		CAPTIVE SOLID FILTER	9	16"	16"	85% SEE FILTER SPEC	8	L55 SERIES E26	ND	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-311100MA	1 LIGHT 1 FAN	YES	1213 LBS

HOOD OPTIONS

HOOD NO	TAG	DESCRIPTION
1		FIELD WRAPPER 10.50" HIGH FRONT, LEFT, RIGHT INSULATION FOR BACK OF HOOD RISER SUNBUR INSTALL 6X1 PLAN. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. FULL DIMENSION HANGING BRACKET - FRONT.

PERFORATED SUPPLY PLENUM(S)

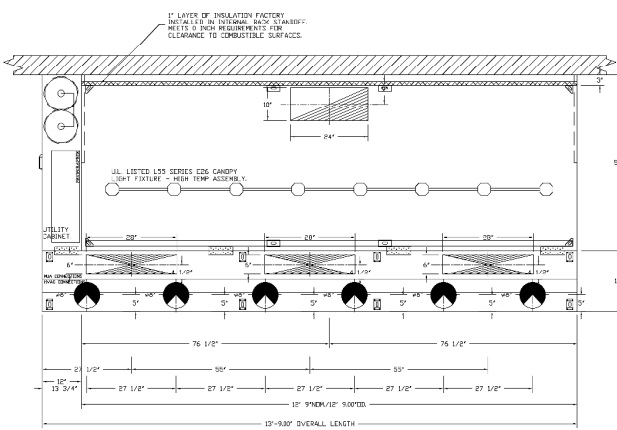
PLENUM NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	SPEC'S				
							WIDTH	LENG	DIA	CFM	SP
1		Front	36.5"	19"	6"	MIA	6"	28"	432	0.127"	
						MIA	6"	28"	432	0.127"	
						AC	8"	116	0.843"		
						AC	8"	116	0.843"		
						AC	8"	116	0.843"		
						AC	8"	116	0.843"		

FIRE SYSTEM INFORMATION - JOB#6714256

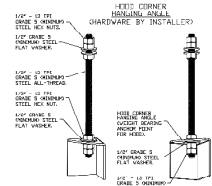
FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	32	FIRE CABINET LEFT	L55 T, HOOD 1

GAS VALVES(S)

SYSTEM TAG	TYPE	SIZE	SUPPLIED BY
1	SC ELECTRICAL	1.500	CAPTIVEARE SYSTEMS

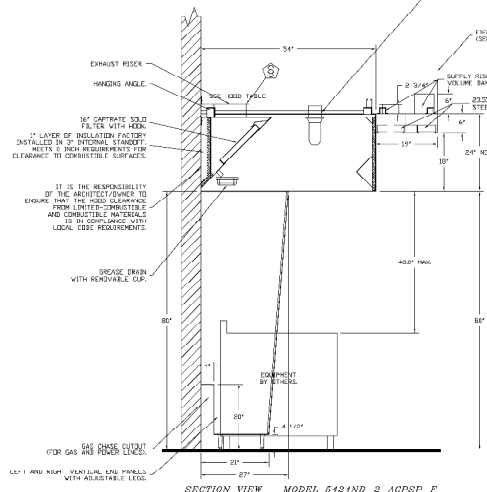


PLAN VIEW - HOOD #1
 12' 0.00" LONG 36.50" WIDE - 2 AC-PSP-F
 NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR FRONT TO AND LOWER
 ACSP SHIPS LOOSE FOR FIELD INSTALLATION



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 OPENEND ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 OPENEND STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 OPENEND 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. TONGUE ALL HEX NUTS TO 57 FT-LBS.

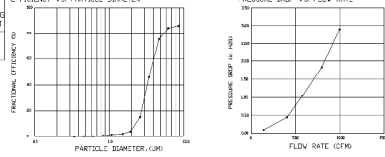


SECTION VIEW MODEL 642ND 2 ACSP F HOOD - #1

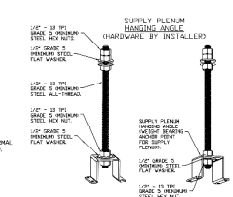
SPECIFICATION: CAPTIVEARE GREASE-STOP SOLID FILTER

THE CAPTIVEARE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A DUAL 5" BOWL DESIGN IN COMPLIANCE WITH A SLI FILM MFM 1.1.1 DESIGN TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY. THE FILTER IS STAINLESS STEEL CONSTRUCTION, AND SLI FILM IS 2" DEEP HOOD CHANNELS.

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 5 MICRONS IN SIZE, AND 85% GREASE PARTICLES 3 MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NET TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTIVEARE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F289-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER. EFFICIENCY VS. PARTICLE DIAMETER

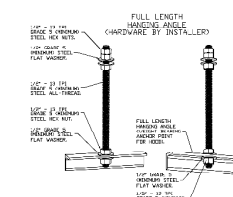


CAPTIVEARE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #001
 NSF STANDARD #2
 UL STANDARD #1846
 INT. MESH CODE CHC
 ULC-5645



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 OPENEND ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 OPENEND STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 OPENEND 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. TONGUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 OPENEND ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 OPENEND STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 OPENEND 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. TONGUE ALL HEX NUTS TO 57 FT-LBS.

REVISIONS

NO	DESCRIPTION	DATE
1		

CAPTIVEARE
 Highwood Group
 4811 Thompson Park Rd., Raleigh, NC, 27618 PHONE: (919) 375-1422 FAX: (919) 375-2272 EMAIL: eng@highwood.com

CHIPOTLE #5383 DEWEVE, CO
 2007 South Federal Boulevard,
 Denver, CO, 80219

DATE: 1/2/2024
 DWG NO: 6714256
 DRAWN BY: ZDA
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 1

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10/24/24

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Issue/Revised:
 10/24/24 ISSUED FOR PERMIT

Approved:
 1 12/19/24 Building, Corp. REVs

Project No:
 CMG 5983

HOOD SHEETS

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M800

EXHAUST FAN INFORMATION - JOB#6714256

FAN UNIT NO.	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	PHASE	VOLTS	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF-1	DUBOH-A	CAPTIVE/ALC	2950	1.450	1309	ODP-PREMIUM 2.000	1.200/1	3	230	8.3	389	FFM	183	19.9
2	EF-2	DUK-8-A	CAPTIVE/ALC	150	0.600	1410	UL-40-ULC	0.250	0.340	1	110	27.9		50	7.6

MUA FAN INFORMATION - JOB#6714256

FAN UNIT NO.	TAG	QTY	FAN UNIT MODEL #	BLOWER HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR FINY	HP	BHP	PHASE	VOLTS	FLA	MCA	MDCP	WEIGHT (LBS)	SDNES	
3	MAU-1	1	A1-E-362-1SD	ISMF-1-MOD	A1-E-362	800	1300	0.500	1517	3DP	0.750	0.443	3	208	2.5	3.2A	15A	454	11.7

ELECTRIC MAKE-UP AIR UNIT(S)

FAN UNIT NO.	TAG	DCON KW'S	MAX KW'S	PHASE	VOLTS	AMPERAGE	TEMP RISE	OUTPUT BTU/S
3	MAU-1	24	36	3	208	86.6	72 °F	122868

FAN OPTIONS

FAN UNIT NO.	TAG	QTY	DESCRIPTION
1	EF-1	1	CHLASS BOX
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	12-000 DAMPER
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RFC- KTELCD METHOD, DCV ROTATION
3	MAU-1	1	2 YEAR PARTS WARRANTY
		1	SIZE 2 TEMPLED COMMERCIAL DUCT DISCHARGE FOR DIRECT DRIVE AHUS
		1	EH 1 MJA CONTROLS SHEET METAL
		1	METALLIZED BACKDRAFT DAMPER FOR AL-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	RTO TOTAL CFM MONITORING
		1	FREESTEA™
1	SEPARATE LEVY WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV DR PREVIRE WITH VFD) - THREE PHASE ONLY		
1	2 YEAR PARTS WARRANTY		

FAN ACCESSORIES

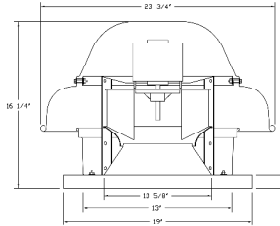
FAN UNIT NO.	TAG	EXHAUST	SUPPLY
		UNLASE GRAVITY DAMPER	GRAVITY METALLIZED WALL MOUNT
1	EF-1	YES	
2	EF-2	YES	
3	MAU-1		YES

CURB ASSEMBLIES

NO	FAN	TAG	WEIGHT	TECH	SIZE
1	# 1	EF-1	39 LBS	CURB	26.500"W X 26.500"L X 28.000"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 21.000"L X 28.000"H INSULATED

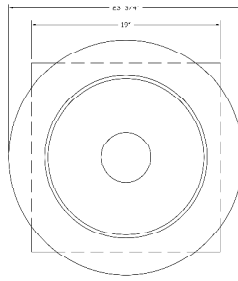
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	HUBBUS ADDRESS	
FAN #3	FPL #1 - UNL1	HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	32

FAN #2 DRIBFA - EXHAUST FAN (EF-2)

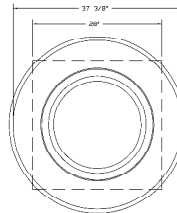
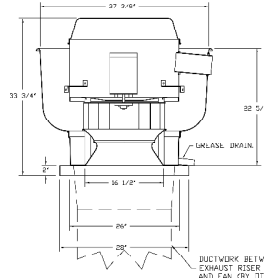


- FEATURES:**
- DIRECT DRIVE CONSTRUCTION AND BOLTS/PALLEYS.
 - ROOF MOUNTED FANG.
 - ULTS.
 - SAFETY DISCONNECT.
 - SYNCHRONOUS MOTOR DESIGN.
 - SPEED CONTROL.
 - THERMAL OVERLOAD PROTECTION (SMALL PHASE).
- SETTING:**
- 1 12-000 DAMPER.
 - ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RFC- KTELCD METHOD, DCV ROTATION.
 - 2 YEAR PARTS WARRANTY.

TOP VIEW



FAN #1 DRIBFA - EXHAUST FAN (EF-1)



TOP VIEW

FEATURES:

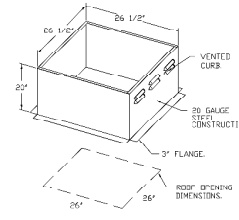
- DIRECT DRIVE CONSTRUCTION AND BOLTS/PALLEYS.
- ROOF MOUNTED FANG.
- RESTAURANT MODEL.
- ULTS AND ULTS-660.
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SMALL PHASE).
- HIGH HEAT OPERATION (300° F/149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST:
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 200° (149°C) UNTIL THE FAN REACHES NORMAL THERMAL EQUILIBRIUM AND WITHOUT ANY DEGENERATING EFFECTS TO THE FAN WHICH WOULD CAUSE LARGE DEVIATION.

ABNORMAL FLAME-UP TEST:
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 1000° (538°) UNTIL A FLAME UP IS REMOVED WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

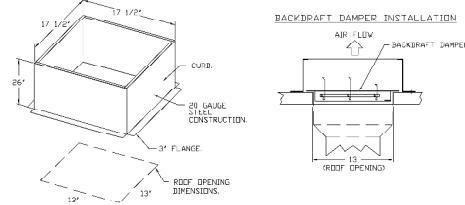
SETTING:

- GREASE BOX.
- 2 YEAR PARTS WARRANTY.



DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (SEE TYPICAL)

BACKDRAFT DAMPER INSTALLATION



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE
Highwoods Group
4611 Pennsylvania Park Rd., Raleigh, NC 27616 PHONE: 919 970 9700 FAX: 919 970 9707 EMAIL: captiveng@highwoods.com

CHIPOTLE #3383 DENVER, CO
2007 South Federal Boulevard,
Denver, CO 80219

DATE: 4/2/2024
DWG #: 6714256
DRAWN BY: ZDH
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 2

LINGLE DESIGN GROUP
1764 BLAKE ST.
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303.974.9873
WWW.LINGLEDESIGN.COM



CHIPOTLE MEXICAN GRILL, INC.
PO BOX 18356
COLUMBIAN, OH 43218-2556
TELEPHONE: 614 332 2400
INTERNET: WWW.CHIPOTLE.COM



STORE NO.: 5383
FEDERAL & EVANS
2005 S. FEDERAL BLVD.
DENVER, CO 80219

DATE	ISSUED FOR PERMIT
10/24/24	

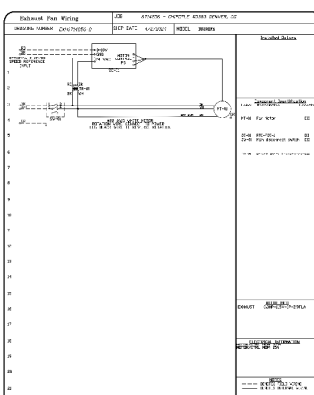
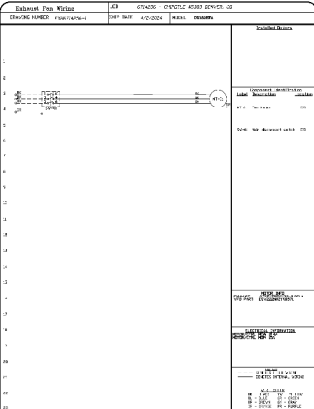
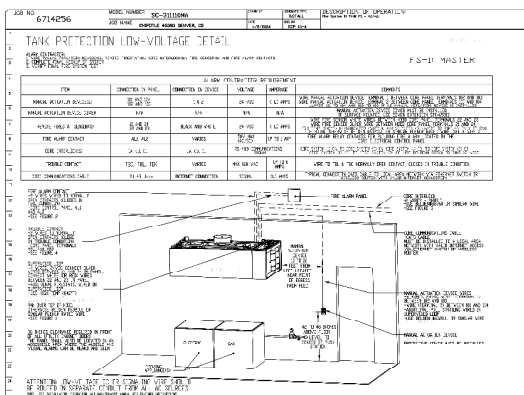
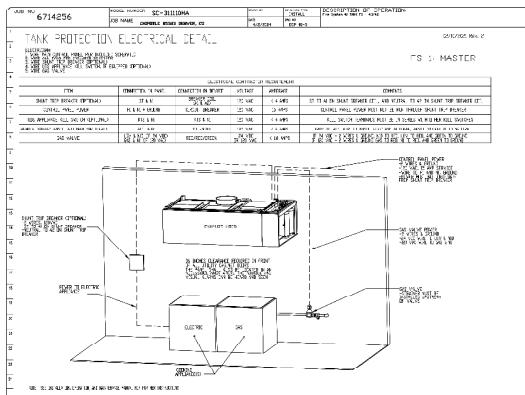
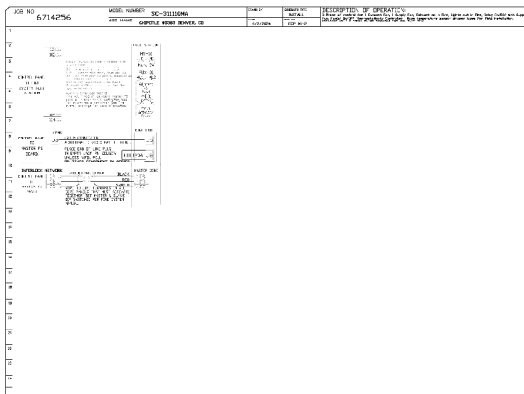
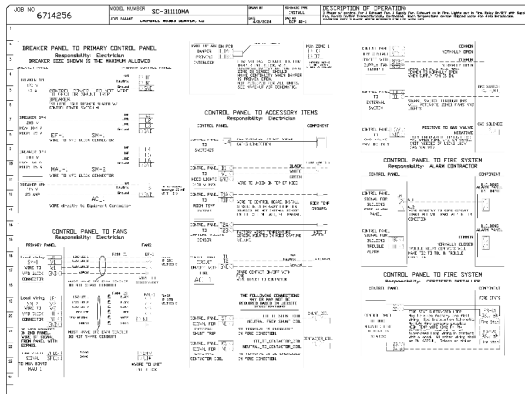
Drawn: Checkd
JW LW

Project No.
CMS 5383

HOOD SHEETS
M801

CASE
Engineering Inc.
14 MAPLE CREEK
BLOOMINGTON, IL 61710
TEL: 309.246.1100 FAX: 309.246.1101

ELECTRICAL PACKAGE - JOB#6714256						
NO.	TAG	PACKAGE #	LOCATION	QUANTITY	OPTION	NAME OR TITLE
1	SC-3010000	UTILITY CABINET LEFT	UTILITY CABINET	1 EACH	SMALL REMEDIATION DEMONSTRATION CENTER	CH
2	SC-3010000	UTILITY CABINET RIGHT	UTILITY CABINET	1 EACH	W/ RELAY CLOSET WITH SUPPLY	CH



REVISIONS

NO.	DATE	DESCRIPTION

CAPTIVE FIRE
Highwoods Group

DATE: 4/2/2024
DWG.#: 6714256
DRAWN BY: ZFH
SCALE: 1/4" = 1'-0"
MASTER DRAWING

SHEET NO. 4

CHIPOTLE #5383 DENVER, CO
2007 South Federal Boulevard,
Denver, CO, 80219

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STORE NO.: 5383
FEDERAL & EVANS
2005 S. FEDERAL BLVD.
DENVER, CO 80219

Issue Record:

DATE	ISSUED FOR PERMIT
10/24/24	

Performs:

NO.	DATE	BY	REVISION
1	12/19/24	Building, Corp. Bfhs	

Drawn: Checkd
JW
LW

Project No:
CMG 5383

Contract:
HOOD SHEETS

CASE Engineering Inc.

M803



COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
 Project Title: Chipotle - Denver, CO
 Location: Denver, Colorado
 Climate Zone: 5A
 Project Type: Alteration

2021 IECC
 Chipotle - Denver, CO
 Denver, Colorado
 5A
 Alteration

Owner/Agent: Designer/Contractor:

Construction Site:
 2005 S. Federal Blvd
 Denver, Colorado 80219

Mechanical Systems List

Quantity/System Type & Description

2 RTU 1.2 (Single Zone)
 Single Package Heat Pump
 Heating Mode Capacity = 129 kBtu/h
 Proposed Efficiency = 3.42 COP, Required Efficiency = 3.40 COP
 Cooling Mode Capacity = 120 kBtu/h, Air Economizer
 Proposed Efficiency = 14.20 EER, Required Efficiency = 11.00 EER
 Proposed Part Load Efficiency = 14.20 EER, Required Part Load Efficiency = 14.10 EER
 Fan System: RTU 1.2 - Complete Motor nameplate HP and fan efficiency method. Please
 Note:
 RTU 1.2 Supply, Constant Volume, 4000 CFM, 2.0 motor nameplate hp, 0.00 fan energy index, fan exception:
 Single fan <= 1 HP or <= 0.89 kW

Mechanical Compliance Statement

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

Mill/How Case: 10/24/2024
 Name - Title: Signature: Date:



Project Title: Chipotle - Denver, CO Report date: 04/18/24
 Data Filename: Page 1 of 10

Section # & Req. ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
CA64.5	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details (PLG1)	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not	Requirement will be met.
CA64.5.2		<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: Chipotle - Denver, CO Report date: 04/18/24
 Data Filename: Page 4 of 10



COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C102.2 (PR2)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's rating guide.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: Chipotle - Denver, CO Report date: 04/18/24
 Data Filename: Page 2 of 10

Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
CA62.3.1 (ME417)	Thermally reflective panel surfaces of flexible heating panels have insulation >= R-3.5.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.8.1 (ME142)	Motors for fans that are not less than 112 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exceptions: Requirement does not apply.
CA63.8.1 (ME143)	Each DX cooling system > 65 lb/hr and other water-cooled cooling system have a minimum part load efficiency as a function of load and comply with detailed requirements of this section.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.9 (ME144)	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exceptions: Requirement does not apply.
CA63.3 (ME455)	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
CA63.5.5 (ME113)	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.2.2 (ME159)	Natural or mechanical ventilation provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.7.1 (ME159)	Demand control ventilation provided for spaces > 500 ft ² and > 15 people/100 ft ² occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow > 50 cfm/ft ² .	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.7.2 (ME112)	Enclosed parking garage ventilation has automatic combustion protection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exceptions: Requirement does not apply.
CA63.7.6 (ME141)	HVAC systems serving guestrooms in group R-1 buildings with > 50 guestrooms. Each guestroom is provided with controls that maintain minimum ventilation (see sections CA62.1.6.1 and CA62.1.6.2).	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exceptions: Requirement does not apply.
CA63.7.4 (ME137)	Exhaust air energy recovery or systems meeting Table CA63.3.1(41) and CA63.7.4(2).	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: Chipotle - Denver, CO Report date: 04/18/24
 Data Filename: Page 3 of 10

Section # & Req. ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
CA63.3.2 (PO07)	Snow/ice melting system and freeze protection system have sensors and controls configured to limit service for pavement temperatures above 20F and outdoor temperature above 40F.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: Chipotle - Denver, CO Report date: 04/18/24
 Data Filename: Page 3 of 10

Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
CA63.7.3 (ME160)	Return exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy rising requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.5.1 (ME62)	Air economizers provided where required meet the requirements for design capacity, control signal, ventilation controls, right-side integrated economizer control, and provide a means to relieve excess outside air during operation.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.5.3 (ME124)	Air economizers automatically reduce outdoor air intake to the occupancy minimum outside air quantity when outdoor air intake will not reduce cooling energy usage. See Table CA63.3.3 for applicable device types and climate zones.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.5.3 (ME125)	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located in unoccupied areas of the building.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.5.3 (ME126)	Return, exhaust/relief and outdoor air dampers used in economizers have maintained dampers that automatically shut when the fan stop and meet maximum leakage rates. Reference section CA63.7.7 for details.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA63.4.3 (ME419)	Closed-circuit cooling tower within hot pump loop have other automatic means sense or sense reverse flow within hot pump loop have automatic valves to bypass hot pump water flow around the tower. Open or closed circuit cooling towers used in conjunction with a separate heat exchanger have heat flow bypassing down the circulation pump on the cooling tower loop. Open or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
CA63.4.1 (ME43)	Heating for vestibules and air curtains automatic controls that shut off the heating system when outdoor temperature > 45F. Vestibule heating and curtains are controlled by a thermostat in the vestibule with heating setpoint <= 45F and cooling setpoint = 60F.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
CA68.2.2 (ME53)	An outdoor and one terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: Chipotle - Denver, CO Report date: 04/18/24
 Data Filename: Page 6 of 10



1150 W. MAIN ST.
 DENVER, CO 80202
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10/24/24

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STORE NO.: 5383
 FEDERAL & EVANS
 2005 S. FEDERAL BLVD.
 DENVER, CO 80219

Issue/Reopen:
 10/24/24 ISSUED EIR PERMIT

Revisions:
 1 12/19/24 Building, Corp. REVs

Drawn: Checkd
 JW LW

Project No:
 CMS 5383

MECHANICAL
 COMCHECK



PLUMBING SPECIFICATIONS

SECTION 1505 - COMMON PIPING REQUIREMENTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION.

PART 2 - PRODUCTS

- 2.1 SUPPORTING DEVICES

- A. HANGER AND PIPE ATTACHMENTS: FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING.

- B. BULKHEAD ATTACHMENTS: POWDER ACTUATED TYPE, DRIVE PIN ATTACHMENTS WITH PULLOUT AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS; UL LISTING AND FM APPROVAL FOR FIRE PROTECTION SYSTEMS.

- C. MECHANICAL ANCHOR FASTENERS: INERT-TYPE ATTACHMENTS WITH PULLOUT AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS; UL LISTING AND FM APPROVAL FOR FIRE PROTECTION SYSTEMS.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. INSTALL PIPING FREE OF SAGS AND BENDS.

- B. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.

- C. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR AND ROOF SLABS.

- D. EXTERIOR WALL, PIPE PENETRATIONS: MECHANICAL SLEEVE SLABS INSTALLED IN STEEL OR CAST IRON PIPES FOR WALL SLEEVES.

- E. FIRE BARRIER PENETRATIONS: SEAL PIPE PENETRATIONS WITH THROUGH-PENETRATION FIRST-STOP SYSTEMS.

- F. INSTALL UNIONS ADJACENT TO EACH VALVE AND A FINAL CONNECTION TO EACH FLEXIBLE EQUIPMENT IN INSTALL DIELECTRIC UNIONS AND FLANGES TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS IN GAS PIPING.

- H. INSTALL DIELECTRIC COUPLING AND NIPPLE FITTINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS IN WATER PIPING.

- I. PROVIDE FULL RING ESCUTCHEONS AT PLUMBING PENETRATIONS THROUGH WALLS OR CEILING.

- TIGHTEN ALL ESCUTCHEONS TO THE ADJACENT SURFACE.

3.2 HANGERS AND SUPPORTS

- A. INSTALL PLUMBING ATTACHMENTS WITH CONCRETE OR STRUCTURAL STEEL, INSTALL ADDITIONAL ATTACHMENTS AT CONC RETAINED LOCATIONS, INCLUDING VALVES, FLANGES, GAGES, STRAINERS, EXPANSION JOINTS, AND CHANGES IN DIRECTION OF PIPING.

- B. INSTALL MECHANICAL ACTUATED DRIVE PIN FASTENERS IN CONCRETE AT STRUCTURAL STEEL. DO NOT USE IN LIGHTWEIGHT CONCRETE OR SUBS LESS THAN 4 INCHES THICK.

- C. INSTALL POWDER ANCHOR FASTENERS IN CONCRETE AFTER CONCRETE IS CURED. DO NOT USE IN LIGHTWEIGHT CONCRETE OR SUBS LESS THAN 4 INCHES THICK.

- D. SUPPORT FIRE PROTECTION SYSTEM PIPING INDEPENDENT OF OTHER PIPING.

- E. LOAD DISTRIBUTION: INSTALL HANGERS AND SUPPORTS SO PIPING LEAD AND DEAD LOADING AND STRESS FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT

END OF SECTION 1505

SECTION 1508 - MECHANICAL INSULATION

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. SUBMITTALS: NONE

- B. QUALITY ASSURANCE: LABELLED WITH MINIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50 ACCORDING TO ASTM E 84.

PART 2 - PRODUCTS

- 2.1 PIPE INSULATION

- A. PREFORMED GLASS FIBER PIPE INSULATION: ASTM C 547, CLASS 1, WITH FACTORY APPLIED, ALKALY RESISTANT, VAPOR BARRIER BACKING.

- B. POLYURETHANE PIPE INSULATION: LONGCELL POLYURETHANE, PREFORMED PIPE INSULATION, COMPLY WITH ASTM C 534, TYPE I, UNCEFT FOR UNCEFT.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. INSTALL VAPOR BARRIERS ON INSULATED PIPES WITH SURFACE OPERATING TEMPERATURES BELOW 60 DEG F.

- B. INSULATE FIRE HITS, VALVES, AND SPECIALTIES.

- C. SEAL VAPOR BARRIER PENETRATIONS FOR HANGERS, SUPPORTS, ANCHORS, AND OTHER PROJECTIONS.

- D. COAT GLASS FIBER PIPE INSULATION ENDS WITH VAPOR BARRIER COATING.

- E. ROOF PENETRATIONS: APPLY INSULATION FOR INTERIOR APPLICATIONS TO A POINT EVEN WITH THE TOP OF THE ROOF FLASHING.

- F. EXTERIOR WALL PENETRATIONS: FOR PENETRATIONS OF BELOW GRADE EXTERIOR WALLS, TERMINATE INSULATION FLUSH WITH MECHANICAL SLEEVE SEAL.

- G. INTERIOR WALLS AND PARTITIONS PENETRATIONS: APPLY INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS, EXCEPT FIRE RATED WALLS AND PARTITIONS.

- H. FIRE RATED WALLS AND PARTITIONS PENETRATIONS: TERMINATE INSULATION AT PENETRATIONS THROUGH FIRE RATED WALLS AND PARTITIONS. SEAL AROUND PENETRATION WITH THROUGH-PENETRATION FIRESTOP SYSTEMS.

- I. FLOOR PENETRATIONS: TERMINATE INSULATION AT THE UNDERSIDE OF THE FLOOR ASSEMBLY AND AT THE FLOOR SURFACE AT TOP OF HOOK, SILL, AND/OR PIN FRICATION WITH THROUGH-PENETRATION FIRESTOP SYSTEMS.

- J. GLASS FIBER PIPE INSULATION INSTALLATION: BOND INSULATION TO PIPE WITH ADHESIVE, SEAL SEAMS AND JOINTS WITH VAPOR BARRIER COMPOUND.

- K. INTERIOR PIPING SYSTEM APPLICATIONS: INSULATE THE FOLLOWING PIPING SYSTEMS:
 - 1. DOMESTIC COLD, HOT, AND RECIRCULATION WATER PIPES.
 - 2. EXPOSED SANITARY DRAINS AND WATER SUPPLY PIPES FOR PUBLIC HAND SINKS.

- L. DO NOT APPLY INSULATION TO THE FOLLOWING SYSTEMS, MATERIALS, AND EQUIPMENT
 - 1. FLEXIBLE CONNECTORS.
 - 2. FIRE PROTECTING PIPING SYSTEMS.
 - 3. SANITARY DRAINAGE AND VENT PIPING.
 - 4. CHROME PLATED PIPES AND FITTINGS, EXCEPT FOR PLUMBING FIXTURES FOR THE DISABLED.
 - 5. PIPING SPECIALTIES, INCLUDING AIR CHAMBERS, UNIONS, STRAINERS, CHECK VALVES, PLUS VALVES, AND FLOW REGULATORS.

- M. PIPE INSULATION THICKNESS: APPLICATION SCHEDULE: INSULATE PIPING WITH THE FOLLOWING MATERIALS AND THICKNESSES:
 - 1. DOMESTIC HOT AND RECIRCULATION WATER PIPES: 1-INCH PREFORMED GLASS FIBER PIPE INSULATION.
 - 2. DOMESTIC COLD WATER PIPES: 1-1/2-INCH PREFORMED GLASS FIBER PIPE INSULATION.
 - 3. P-TRAP AND FIXTURE SUPPLIES FOR PUBLIC HAND SINKS: ADA COMPLIANT FIRE FORMED INSULATION.

END OF SECTION 1508

SECTION 1511 - VALVES

PART 1 - GENERAL (NOT APPLICABLE)

PART 2 - PRODUCTS

- 2.1 GENERAL: DUTY VALVES

- A. END CONNECTIONS: END CONNECTIONS SHALL COMPLY WITH ANSI B1.20.1, FLANGES SHALL COMPLY WITH ANSI B16.1 FOR CAST IRON VALVES AND ANSI B16.24 FOR BRONZE VALVES. SOLDER-JOINT CONNECTIONS SHALL COMPLY WITH ANSI B18.18.

- B. BALL VALVES: RATED FOR 150 PSIG SATURATED STEAM PRESSURE, 40 PSIG WDG PRESSURE; 2-PIECE CONSTRUCTION, WITH BRONZE BODY, STANDARD OR REGULAR PORT, CHROME PLATED BRASS BALL, REPLACEABLE "T-FLOW" OR "T-FE" SEATS AND SEALS, BLOWOUT PROOF STEM, AND VINYL COATED STEEL HANDLES.

- C. PLUG VALVES: RATED AT 150 PSIG WDG, BRONZE BODY, WITH STRAIGHTWAY PATTERN, SQUARE HEAD, AND THREADED ENDS.

- D. SWING CHECK VALVES: CLASS 125, CAST BRONZE BODY AND CAP, WITH HORIZONTAL SWING, W/PATENT, AND BRONZE DISC.

- E. VALVES FOR COPPER TUBE: SOLDER ENDS, EXCEPT FLOW THREADED ENDS FOR HEATING HOT WATER AND LOW PRESSURE STEAM SERVICE.

- F. VALVES FOR STEEL PIPE: THREADED ENDS.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. USE GATE AND BALL VALVES FOR SHUTOFF; DUTY AND BALL FOR THROTTLING DUTY.

- B. LOCATE VALVES FOR EASY OPERATION AND PROVIDE SEPARATE SUPPORT WHEN NECESSARY.

- C. INSTALL ACCESSIBLE VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT

- D. INSTALL VALVES IN HORIZONTAL POSITION WITH STEM AT OR ABOVE CENTER OF PIPE.

- E. INSTALL VALVES IN A POSITION TO ALLOW FULL STEM MOVEMENT.

- F. INSTALL CHECK VALVES FOR PROPER DIRECTION OF FLOW IN HORIZONTAL POSITION WITH HINGE PIN LEVEL.

END OF SECTION 1511

SECTION 1541 - DOMESTIC WATER PIPING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. PERFORMANCE REQUIREMENTS: UNLESS OTHERWISE INDICATED MINIMUM PRESSURE REQUIREMENTS FOR WATER PIPING ARE AS FOLLOWS:
 - 1. SERVICE ENTRANCE PIPING: 120 PSIG.
 - 2. DOMESTIC WATER PIPING: 80 PSIG.

- B. COMPLY WITH NSF 14 "PLASTIC PIPING COMPONENTS AND MATERIALS."

- C. COMPLY WITH NSF 61 "DRINKING WATER SYSTEM COMPONENTS-HEALTH EFFECTS."

PART 2 - PRODUCTS

- 2.1 PIPES AND TUBES [SEE MATERIAL SCHEDULE OR SHEET FLOOR FOR WHERE THESE MATERIALS ARE TO BE USED]
 - A. HARD COPPER TUBE, ASTM B 88, TYPE K, WATER TUBE, DRAIN, TUBING.
 - B. PVC PLASTIC, WATER PIPE, ASTM D 2785, SCHEDULE 80, PLAIN ENDS.

- A. SOLDER-FILLER METAL: ASTM B 32, LEAD FREE.

- B. BRAZING FILLER METALS: AWS A5.8, ALLOY 50 SYSTEM REQUIREMENTS.

- C. SOLVENT CEMENTS: AS RECOMMENDED BY MANUFACTURER.

- D. PLASTIC PIPE SEALS: ASTM F 477, ELASTOMERIC GASKET.

PART 3 - EXECUTION

3.1 VALVE APPLICATIONS

- A. INSTALL GATE VALVES CLOSE TO MAIN ON EACH BRANCH AND RISER SERVING TWO OR MORE PLUMBING FIXTURES OR EQUIPMENT CONNECTIONS AND WHERE INDICATED.

- B. INSTALL GATE OR BALL VALVES ON INLET TO EACH PLUMBING EQUIPMENT ITEM, ON EACH SUPPLY TO EACH PLUMBING FIXTURE NOT HAVING STOPS ON SUPPLIES, AND ELSEWHERE AS INDICATED.

- C. INSTALL DRAIN VALVE AT BASE OF EACH RISER, AT LOW POINTS OF HORIZONTAL RUNS, AND WHERE REQUIRED TO DRAIN WATER DISTRIBUTION PIPING SYSTEM.

- D. INSTALL SWING CHECK VALVE ON DISCHARGE SIDE OF EACH PUMP AND ELSEWHERE AS INDICATED.

- E. INSTALL BALL VALVES IN EACH HOT WATER CIRCULATING LOOP AND DISCHARGE SIDE OF EACH PUMP.

3.2 PIPING INSTALLATION

- A. INSTALL HANGERS AND SUPPORTS AT INTERVALS INDICATED IN THE APPLICABLE PLUMBING CODE AND AS RECOMMENDED BY PIPE MANUFACTURER.

- M. INSTALL PIPING CONNECTIONS BETWEEN PIPING AT EACH FLOOR.

3.3 INSPECTING AND CLEANING

- A. INSPECT AND TEST PIPING SYSTEMS FOLLOWING PROCEDURES OF AUTHORITIES HAVING JURISDICTION.

- B. CLEAN AND DISINFECT WATER DISTRIBUTION PIPING FOLLOWING PROCEDURES OF AUTHORITIES HAVING JURISDICTION.

END OF SECTION 1541

SECTION 1510 - SANITARY WASTE AND VENT PIPING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. MINIMUM PRESSURE REQUIREMENT FOR SOIL, WASTE AND VENT 10 FEET HEAD.

- B. COMPLY WITH NSF 14 "PLASTIC PIPING COMPONENTS AND RELATED MATERIALS."

PART 2 - PRODUCTS

- 2.1 PIPES AND TUBES

- A. PVC PLASTIC, DWV PIPE: ASTM D 2665, SCHEDULE 40, PLAIN ENDS.

- 2.2 FITTINGS

- A. PVC PLASTIC, DWV PIPE FITTINGS: ASTM D 2665, TO ASTM D 3311; SOCKET TYPE; DRAIN, WASTE, AND VENT PIPE PATTERNS.

PART 3 - EXECUTION

3.1 PIPING INSTALLATION

- A. INSTALL CLEANOUT AND EXTENSION TO GRADE AT CONNECTION OF BUILDING SANITARY DRAIN AND BUILDING SANITARY SEWER.

- B. LOCATE DRAINAGE PIPING RUNOUTS AS CLOSE AS POSSIBLE TO BOTTOM OF FLOOR SLAB SUPPORTING FIXTURES OR DRAINS.

3.2 INSPECTION

- A. INSPECT AND TEST PIPING SYSTEMS FOLLOWING PROCEDURES OF AUTHORITIES HAVING JURISDICTION.

END OF SECTION 1510

SECTION 1518 - NATURAL GAS PIPING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. QUALITY ASSURANCE: COMPLY WITH NFPA 54 AND THE PLUMBING CODE.

PART 2 - PRODUCTS

- 2.1 PIPE, TUBE, AND SPECIAL TIES

- A. STEEL PIPE: ASTM A 53, TYPE S (SEAMLESS), GRADE B, SCHEDULE 40, PLAIN ENDS.

- B. MALLEABLE IRON THREADED FITTINGS: ANSI F163.4, CLASS 150.

- C. MANUAL VALVES: COMPLY WITH STANDARDS LISTED OR, IF APPROPRIATE, TO ANSI Z21.15.

- D. GAS STOPS: ADA CERTIFIED, BRONZE BODY, PLUS PIPE WITH BRONZE PLUG, FORD PIG OR LESS NATURAL GAS, INSIDE OF ADA STAMP, FLAT OR SQUARE HEAD OR LEVER HANDLE, AND THREADED ENDS COMPLYING WITH ANSI B1.20.1.

- E. GAS VALVES: 150-PSIG WDG, CAST IRON OR BRONZE BODY; BRONZE PLUG, STRAIGHTWAY PATTERN, SQUARE HEAD, TAPERED PLUG TYPE.

- F. GAS PRESSURE REGULATORS: ANSI Z21.18, SINGLE STAGE, STEEL JACKETS, CORROSION RESISTANT PRESSURE REGULATORS; INCLUDE THERMOPLASTIC VENT, ELEVATION COMPENSATOR, REGULATOR PRESSURE RATINGS, INLET AND OUTLET PRESSURES, AND FLOW VOLUMES IN CUBIC FEET PER HOUR OF NATURAL GAS AT SPECIFIC GRAVITY ARE AS INDICATED.

- G. FLEXIBLE CONNECTORS: INLET PRESSURE RATINGS NOT LESS THAN SYSTEM PRESSURE.

- H. STRAINERS: BRONZE BODY, PATTERN, FULL SIZE OF CONNECTING PIPING. INCLUDE STAINLESS STEEL SCREENS WITH 1/16-INCH PERFORATIONS AND A PRESSURE RATING OF 125-PSIG; MINIMUM, WOOD WORKING PRESSURE.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. CLOSE EQUIPMENT SHUTOFF VALVES BEFORE TURNING OFF GAS TO PREMISES OR SECTION OF PIPING. PERFORM LEAKAGE TEST AS SPECIFIED TO DETERMINE THAT ALL EQUIPMENT IS TURNED OFF BY APPLICABLE PIPING SYSTEM.

- B. INSTALL SHUTOFF VALVES DOWNSTREAM FROM GAS METER, OUTSIDE BUILDING AT GAS SERVICE ENTRANCE.

- C. INSTALL GAS STOPS FOR SHUTOFF TO APPLIANCES WITH NPS 2" OR SMALLER LOW PRESSURE GAS SUPPLIES.

- D. DRIPS AND SEDIMENT TRAPS: INSTALL DRAIPS AT POINTS WHERE CONDENSATE MAY COLLECT. INSTALL OUTLETS OF GAS METERS. LOCATE WHERE DIRECTLY ACCESSIBLE TO PERMIT CLEANING AND EMPLOYING.

- DO NOT INSTALL WHERE CONDENSATE WOULD BE SUBJECT TO FREEZING.

- E. INSTALL GAS PIPING AT LOW POINTS TO PROVIDE POSITIVE DRAINAGE TO SEWER RISERS.

- F. CONNECT BRANCH PIPING FROM TOP OR SIDE OF HORIZONTAL PIPING.

- G. INSTALL STRAINERS ON SUPPLY SIDE OF EACH CONTROL VALVE, GAS PRESSURE REGULATOR, SOLENOID VALVE, AND ELSEWHERE AS INDICATED.

- H. INSTALL VALVES IN ACCESSIBLE LOCATIONS, PROTECTED FROM DAMAGE.

- I. INSTALL GAS VALVE UPSTREAM FROM EACH GAS PRESSURE REGULATOR. WHERE TWO GAS PRESSURE REGULATORS ARE INSTALLED IN SERIES, VALVE IS NOT REQUIRED AT SECOND REGULATOR.

- J. CONNECT GAS PIPING TO EQUIPMENT AND APPLIANCES WITH SHUTOFF VALVES AND UNIONS. INSTALL GAS VALVE UPSTREAM FROM AND WITHIN 36 INCHES OF EACH APPLIANCE USING GAS. INSTALL UNION OR FLANGED CONNECTION DOWNSTREAM FROM VALVE.

- K. INSPECT, TEST, AND PURGE PIPING ACCORDING TO NFPA 54, PART 4, "GAS PIPING INSPECTION, TESTING, AND PURGING," AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

END OF SECTION 1518

SECTION 1541 - PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. SUBMITTALS: NONE.

- B. COMPLY WITH REQUIREMENTS OF PUBLIC LAW 102-486, "ENERGY POLICY ACT," REGARDING ENERGY EFFICIENCY AND WATER CONSERVATION IN PLUMBING FIXTURES.

- C. COMPLY WITH APPLICABLE STANDARDS BELOW:
 - 1. ENAMELED, CAST IRON FIXTURES: ANSI A112.19.1M.
 - 2. NATIONAL SANITATION FOUNDATION STANDARDS: NSF2.
 - 3. PORCELAIN ENAMELED FIXTURES: ASTM A112.19.1M.
 - 4. SLP RESISTANT BATHING SURFACES: ASTM F 462.
 - 5. STAINLESS STEEL FIXTURES: ASTM A112.19.2M.
 - 6. VITREOUS CHINA FIXTURES: ANSI A112.19.2M.

PART 2 - PRODUCTS

- 2.1 REFER TO THE FIXTURE SCHEDULE ON DRAWING PNO.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. INSTALL FIXTURES WITH FLANGES AND GASKET SEALS.

- B. INSTALL FLUSHMOUNT VALVES FOR ACCESSIBLE WATER CLOSETS AND URINALS WITH HANDLE MOUNTED ON WOOD SIDE OF COMPARTMENT. INSTALL OTHER FIXTURES AT LOCATIONS THAT ARE EASY FOR THE DISABLED TO REACH.

- C. FASTEN WALL HANGING PLUMBING FIXTURES SECURELY TO SUPPORTS ATTACHED TO BUILDING SUBSTRATE WHEN SUPPORTS ARE SPECIFIED, AND TO BUILDING WALL CONSTRUCTION WHERE NO SUPPORT IS INDICATED.

- D. FASTEN FLOOR MOUNTED FIXTURES TO SUBSTRATE, WITH FIXTURES HAVING HOLES FOR SECURING FIXTURE TO WALL CONSTRUCTION, FASTEN TO REINFORCEMENT BUILT INTO WALLS.

- E. FASTEN WALL MOUNTED FITTINGS TO REINFORCEMENT BUILT INTO WALLS.

- F. FASTEN COUNTER MOUNTED PLUMBING FIXTURES TO CASEWORK.

- G. SECURE SUPPLIES TO SUPPORTS OR SUBSTRATE WITHIN PIPE SPACE BEHIND FIXTURE.

- H. SET MOP-BASINS IN LEVELING BED OF CEMENT GROUT.

- I. INSTALL INDIVIDUAL SUPPLY INLETS, SUPPLY STOPS, SUPPLY RISERS, AND TUBULAR BRASS TRAYS WITH CLEANOUTS AT FIXTURE.

- J. INSTALL WATER SUPPLY STOP VALVES IN ACCESSIBLE LOCATIONS.

- K. INSTALL TRAPS ON FIXTURE OUTLETS, OMIT TRAPS ON FIXTURES HAVING INTEGRAL TRAPS, OMIT TRAPS ON BRONZE VALVE OR DISCHARGE SIDE OF EACH PUMP AND ELSEWHERE AS INDICATED.

- L. INSTALL FULL-RING ESCUTCHEONS AT WALL, FLOOR, AND CEILING PENETRATIONS IN EXPOSED, FINISHED LOCATIONS AND WITHIN CABINETS AND WALLWORK. USE DEEP TRAPLESS ESCUTCHEONS WHERE REQUIRED TO CONCEAL PROTRUDING PIPE FITTINGS.

- M. SUPPORT PIPING CONNECTIONS BETWEEN PIPING AT EACH FLOOR.

- N. PLUMBING EQUIPMENT: INSTALL INSULATION ON SUPPLIES AND DRAINS OF FIXTURES FOR THE DISABLED.

- O. CLEAN AND DISINFECT EQUIPMENT, TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO UL 486-AND UL 486B.

END OF SECTION 1541

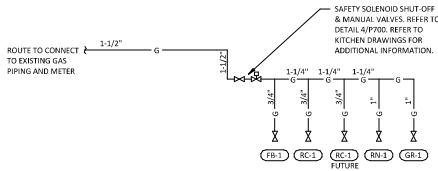
SECTION 1554 - FLUES AND VENTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. SUBMITTALS: NONE.

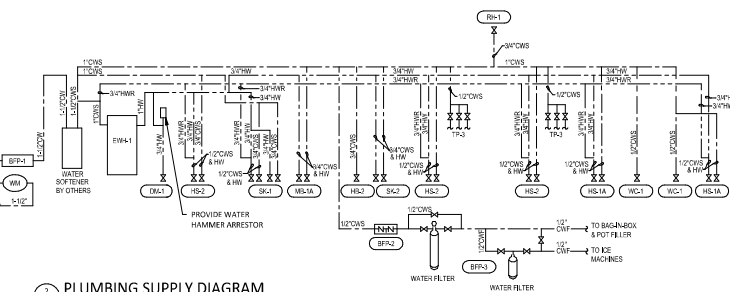
PART 2 - PRODUCTS



1 GAS DISTRIBUTION DIAGRAM
NOT TO SCALE

CONNECTED GAS LOAD				
FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM METER (FT)	
FRIER	FB-1	35	85	85
GRIDDLE	GR-1	107	90	90
RICE COOKER	RC-1	35	90	90
RICE COOKER (FUTURE)	RC-1	35	90	90
RANGE	RN-1	192	90	90
Grand total		464		MAX: 100

NOTES:
1. PRESSURE REQUIRED AFTER METER: 7" W.C.
2. DISTANCES ARE APPROXIMATE



2 PLUMBING SUPPLY DIAGRAM
NOT TO SCALE

NOTE:
HOT WATER RETURN SHALL CONNECT TO HOT WATER SUPPLY NO FURTHER THAN 2'-0" FROM FAUCET CONNECTION. ALL OTHER FIXTURES SHALL BE LESS THAN 4'-0" FROM CONNECTION POINT ON MAIN HOT WATER SUPPLY.

PLUMBING SUPPLY PLAN NOTES

- SEE ARCHITECTURAL SITE/UTILITY PLAN FOR CONTINUATION OF 1-1/2" DOMESTIC WATER SERVICE. CONTRACTOR SHALL VERIFY EXISTING WATER PRESSURE IN FIELD PRIOR TO ANY WORK AND PIPING ROUGH-IN. IF DISCOVERED ON SITE THAT EXISTING WATER PRESSURE IS LESS THAN 80 PSI, CONTACT ENGINEER IMMEDIATELY FOR PIPING DESIGN CHANGES. IF PRESSURE IS GREATER THAN 80 PSI, PROVIDE PRESSURE REDUCING VALVE AND REDUCE DOWN TO 77 PSI.
- PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 100" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1032-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
- PROVIDE WATER HEATER EWH-1 PER DETAIL 1/P700.
- PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 1/P700. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
- PROVIDE 1/2" 3/8" TUBED WATER ROUGH-IN TO THE ICE MAKER AT 36" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRASS WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL22-72W-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.
- MAKE CONNECTION TO EXISTING NATURAL GAS LINE. VERIFY CAPACITY OF EXISTING GAS METER AND REPLACE IF REQUIRED. VERIFY THAT SERVICE IS ADEQUATE TO SUPPLY NEW EQUIPMENT AS SHOWN. NEW EQUIPMENT REQUIRES 44 MBH @ DELIVERY PRESSURE OF 7" W.C. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH LOCAL CODES. BID SHALL INCLUDE ALL WORK FOR A FULLY OPERATIONAL SYSTEM. ALL GAS PIPE SIZES SHOWN FOR LOW PRESSURE (LESS THAN 1.8) L.S.) CONTRACTOR TO VERIFY EXACT LOCATION, PRESSURE AND REQUIREMENTS ON SITE. SEE ARCHITECTURAL DRAWINGS AND SITE PLAN FOR ADDITIONAL INFORMATION AND CONTINUATION.
- PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 7/P700.
- NOT USED
- NOT USED
- 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 WASHER DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 1-4/P700.
- PROVIDE MANUAL SHUT-OFF VALVE FOR GAS LINE ABOVE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE IN NSR. SEE GAS RISER DIAGRAM ON THIS SHEET AND DETAIL 4/P700.
- CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 1-3/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, MIXING MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOP TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRASSED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURES 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. ADD EXTRA GAS SUB FOR FUTURE RICE COOKER CONNECTION.

- PROVIDE GAS ROUGH-IN TO FRIER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE (ENGINE FRYER IS SECURED INTO PLACE. REFER TO DETAILS 6/P700 AND 7/P700).
- PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRASS WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL22-72W-F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
- INSTALL RGF INSB ICE MAKE SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
- PROVIDE 1/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WAS CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN.
- PROVIDE 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING 3/4" COPPER PIPE (ONCE DISH MACHINE IS IN ITS FINAL LOCATION (FINAL CONNECTION IS NOT ACCEPTABLE). PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSIBLE SHUTOFF VALVE AND UNION BELOW THE DISH MACHINE AND INSTALL THE STRAINER AND PRESSURE REDUCING VALVE FURNISHED WITH THE DISH MACHINE IN AN ACCESSIBLE LOCATION AT THE CONNECTION TO THE UNIT.
- 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 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
- PROVIDE WATER SERVICE ENTRY PER DETAIL 16/P700.
- INSTALL RGF INSB ICE MAKE SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE INSS BELOW UTENSIL COUNTER IN THIS SHEET AND DETAIL THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
- 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 PIPES TO FLOOR DRAIN (TRAP PRIMER CONNECTIONS) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAINS.
- GAS DOWN TO KITCHEN EQUIPMENT. PROVIDE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE IN RISER. EMERGENCY SHUT-OFF INTRODUCED TO ADD FIRE SUPPRESSION SYSTEM. COORDINATE EXACT LOCATION WITH THE KITCHEN HOOD VENDOR AND LOCAL AHJ REQUIREMENTS.

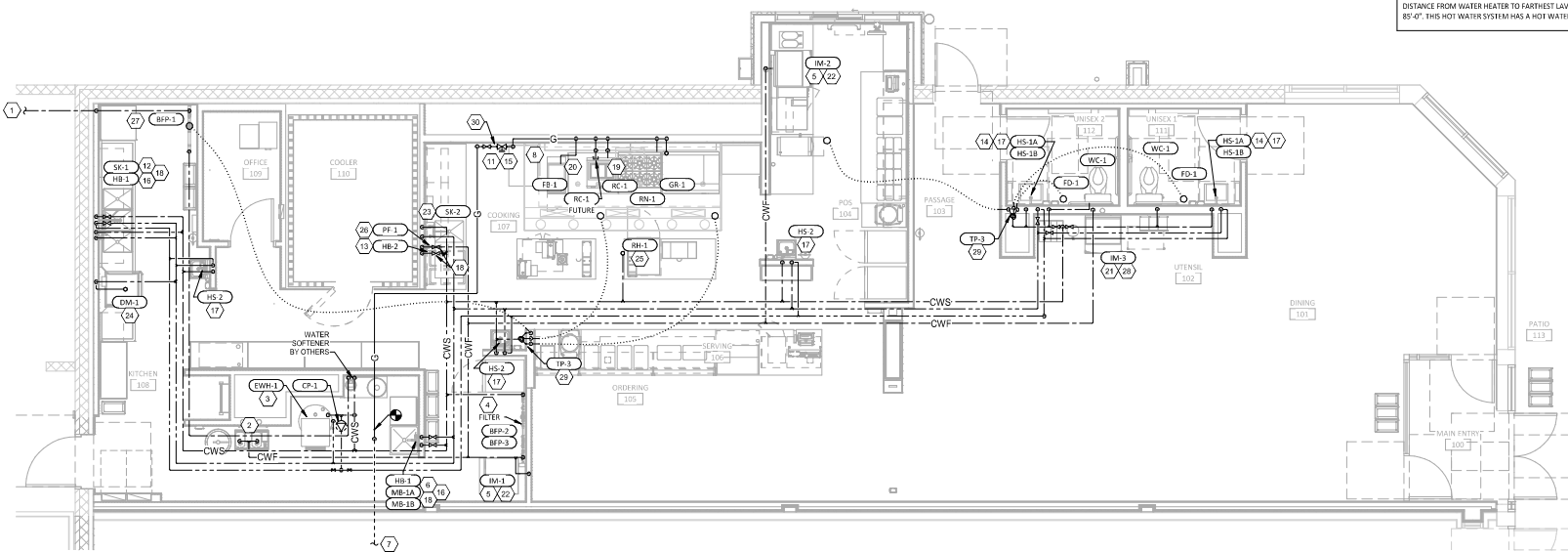
NOTE:
ENSURE ALL TRAP PRIMERS ARE ACCESSIBLE. DO NOT LOCATE ABOVE ANY LARGE PIECES OF EQUIPMENT.

NOTE:
COORDINATE ALL PLUMBING LOCATIONS WITH ELECTRICAL LOCATIONS. WATER LINES NOT TO BE INSTALLED ABOVE RECEPTACLES.

HOT WATER BALANCING NOTE:

PLUMBING CONTRACTOR SHALL PROVIDE 10MM VALVE RECONFIGURABLE/AUTOMATIC VARIABLE SET POINT BALANCING VALVE OR EQUIVALENT AT EACH HOT WATER CIRCULATION CONNECTION TO THE HOT WATER SYSTEM. ENSURE VALVES ARE INSTALLED IN AN ACCESSIBLE LOCATION FOR ADJUSTMENT AND SERVICE. SYSTEM SHALL BE SET FOR A 5 DEGREE TEMPERATURE DIFFERENCE FROM WATER HEATER SET POINT. CONSULT WITH THE CIRCULATING PUMP MANUFACTURER FOR ADDITIONAL CONTROLS AND BALANCING INSTRUCTION.

NOTE:
DISTANCE FROM WATER HEATER TO FARTHEST LAVATORY IS APPROXIMATELY 85'-0". THIS HOT WATER SYSTEM HAS A HOT WATER RETURN.



3 PLUMBING SUPPLY PLAN
1/4" = 1'-0"



CHIPOTLE MEXICAN GRILL, INC.
PERMITS AND INSPECTIONS
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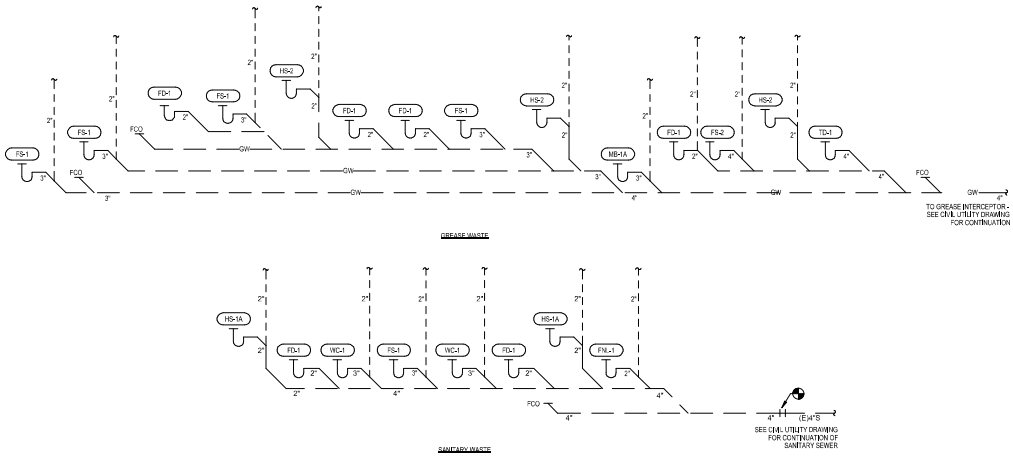
STORE NO.: 5383
FEDERAL & EVANS
2005 S. FEDERAL BLVD.
DENVER, CO 80219

Issue/Rev	Date	Permit Set
1	12/19/24	Building, Corp. RfIs
2	01/22/25	City Comments

Drawn: _____
Checked: _____
Title: NH
Project No: CWS 5383
Contract: PLUMBING PLAN WATER & GAS



P100



PLUMBING WASTE & VENT DIAGRAM
NOT TO SCALE

DRAINAGE FIXTURE UNITS FOR GREASE WASTE

FIXTURE	DRAINAGE FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL DRAINAGE FIXTURE UNITS
2" FLOOR DRAINS	3	2	6
3" FLOOR SINK	4	6	24
4" FLOOR SINK	4	1	4
4" TRENCH DRAIN	5	1	5
MOP BASIN	3	1	3
HAND SINKS	2	4	8
TOTAL DRAINAGE FIXTURE UNITS			50

GRAVITY GREASE INTERCEPTOR SIZING

DFUS	INTERCEPTOR VOLUME
8	500 GALLONS
21	750 GALLONS
36	1,000 GALLONS
90	1,250 GALLONS
172	1,500 GALLONS

SLOPE OF HORIZONTAL DRAINAGE PIPE
(SEE IPC TABLE 704.1)

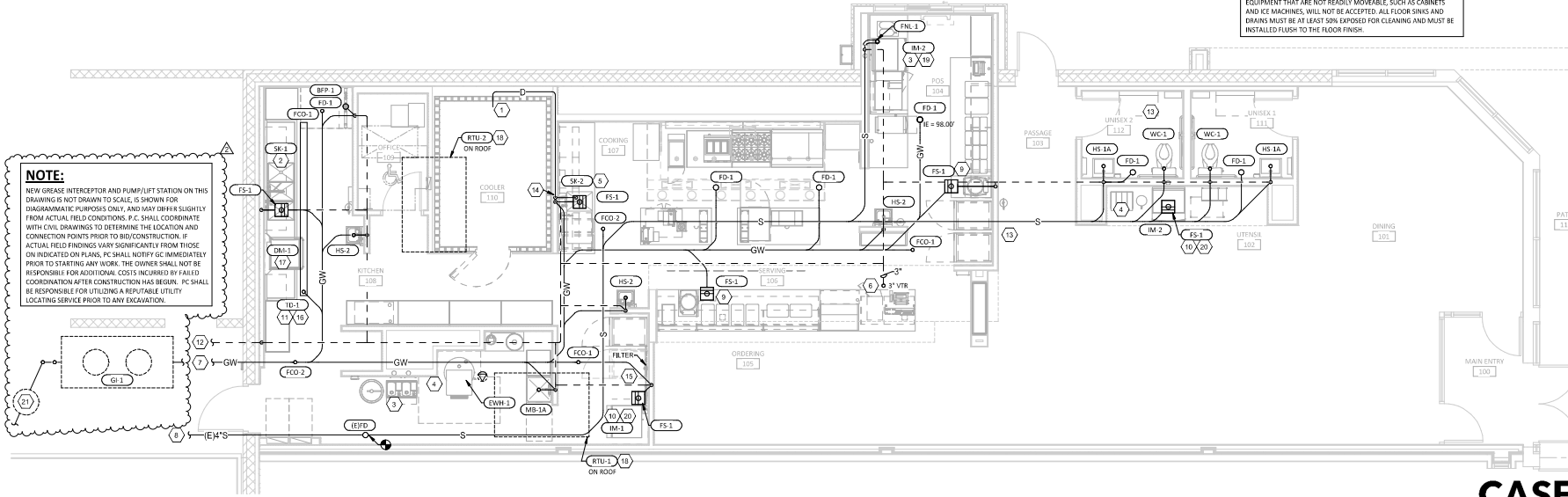
SIZE (INCHES)	MINIMUM SLOPE (INCH PER FOOT)
2-1/2" OR LESS	1/4"
3" TO 6"	1/8"
8" OR LARGER	1/16"

For SI: 1 inch = 25.4 mm, 1 inch per foot = 83.33 mm.
a. Slopes for piping draining to a grease interceptor shall comply with Section 704.1.

PLUMBING WASTE AND VENT PLAN NOTES

- PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW THE ICE MAKER AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1/8" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL BEHIND ICE MAKER AT 8" AFF AND BE SECURED TO FLOOR UNDER ICE MAKER.
- PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 2/P700.
- COORDINATE ROUTING OF SODA BUNDLES WITH CC&A-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLES SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH CC&A-COLA TECHNICIAN DURING ROUGH-IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL 12/P700.
- EXHAUST FROM WATER HEATER UP THROUGH ROOF. A MINIMUM OF 30' CLEARANCE TO AIR INTAKES SHALL BE MAINTAINED. VERIFY EXACT LOCATION, SIZE, AND REQUIREMENTS ON SITE. SEE DETAIL 1/P700.
- PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
- PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.
- PROVIDE GREASE INTERCEPTOR GI-1. SEE SITE UTILITY PLAN FOR GI-1 LOCATION AND FOR CONTINUATION OF 4" GREASE WASTE PIPE TO GI-1.
- SEE SITE UTILITY PLAN FOR CONTINUATION OF 4" SANITARY SEWER.
- PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
- 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 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.
- PROVIDE 2" VENT TO GREASE INTERCEPTOR GI-1. SEE SITE 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 SINK CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
- PROVIDE TRENCH DRAIN AS SHOWN PER DETAIL 15/P700.
- INSTALL DRAIN HOSE FLUSHING WITH DISH MACHINE BRUSH 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 18/P700 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL DRAIN.
- PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK (INDIRECT CONNECTION) 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 ZOLLER 382 SERIES DUPLEX SEWAGE EJECTOR PUMP. PROVIDE WITH BASIN, MINIMUM OF 48" BY 9'-0" DEEP (48" VENT) WITH EXTENSIONS TO GRADE AND WITH HEAVY DUTY VEHICLE TRAFFIC RATED UL. REFER TO CIVIL PLANS FOR EXACT LOCATION, CONNECTION POINT, AND INVERT ELEVATION REQUIREMENTS. SEE LIFT STATION SCHEDULE ON SHEET P700 FOR ADDITIONAL INFORMATION.

NOTE:
FLOOR SINKS AND DRAINS THAT ARE BURIED BE NEATH PIECES OF EQUIPMENT THAT ARE NOT READILY MOVABLE, SUCH AS CABINETS AND ICE MACHINES, WILL NOT BE ACCEPTED. ALL FLOOR SINKS AND DRAINS MUST BE AT LEAST 30% EXPOSED FOR CLEANING AND MUST BE INSTALLED FLUSH TO THE FLOOR FINISH.



NOTE:
NEW GREASE INTERCEPTOR AND PUMP/LIFT STATION ON THIS DRAWING IS NOT DRAWN TO SCALE. IS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY, AND MAY BE SITUATED SLIGHTLY FROM ACTUAL FIELD CONDITIONS. P.C. SHALL COORDINATE WITH CIVIL DRAWINGS TO DETERMINE THE LOCATION AND CONNECTION POINTS PRIOR TO CONSTRUCTION. IF ACTUAL FIELD FINDINGS VARY SIGNIFICANTLY FROM THOSE INDICATED ON PLANS, P.C. SHALL NOTIFY GC IMMEDIATELY PRIOR TO STARTING ANY WORK. THE OWNER SHALL NOT BE RESPONSIBLE FOR ADDITIONAL COSTS INCURRED BY FAILED COORDINATION AFTER CONSTRUCTION HAS BEGUN. P.C. SHALL BE RESPONSIBLE FOR UTILIZING A REPUTABLE UTILITY LOCATING SERVICE PRIOR TO ANY EXCAVATION.

PLUMBING SANITARY W&V PLAN
1/4" = 1'-0"

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STORE NO.: 5383
FEDERAL & EVANS
2005 S. FEDERAL BLVD.
DENVER, CO 80219

Issue Record:

NO.	DATE	PERMIT SET
1	10/24/24	PERMIT SET
2	01/22/25	PERMIT SET

Revisions:

NO.	DATE	DESCRIPTION
1	12/19/24	Building, Corp. RFI's
2	01/22/25	City Comments

Drawn: _____
Checked: _____
NT NH

Project No: _____
CWS 5383

PLUMBING PLAN
WASTE & VENT

P110