

GENERAL NOTES

1. PIPING LAYOUTS ON THE DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
2. FINAL CONNECTION OF ALL OWNER SUPPLIED EQUIPMENT BY THIS DIVISION UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT CHARTS FOR FURTHER DETAILS.
3. PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS PER DETAILS ON DWG M302/M303.
4. WALL CLEANOUTS NOT PERMITTED IN TILE AND PLYWOOD SURFACES. IF A CLEANOUT IS REQUIRED, COORDINATE LOCATION WITH CHIPOTLE CONSTRUCTION MANAGER.
5. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS. REFER TO PLUMBING LAYOUT FOR PRIMER LOCATIONS.

PLUMBING WASTE AND VENT PLAN NOTES

1. PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS. DISCHARGE WITH AN AIR GAP AT HUB DRAIN. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL AT POINT OF DISCHARGE AT 8" AFT.
2. PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAILS ON M302/M303.
3. COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAILS ON M302/M303.
4. NOT USED.
5. PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
6. CONNECT TO EXISTING VENT THROUGH THE ROOF.
7. PROVIDE GREASE INTERCEPTOR.
8. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" SANITARY SEWER.
9. PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
10. 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.
11. 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.
12. PROVIDE VENT TO GREASE INTERCEPTOR GI-1.
13. 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.
14. PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAILS ON M302/M303.
15. PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR DRAIN CONCEALED IN THE WALL AS SHOWN ON DETAIL M302-3.
16. PROVIDE TRENCH DRAIN AS SHOWN IN DETAILS ON M302/M303.
17. 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 HUB DRAIN.
18. NOT USED.
19. NOT USED.
20. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF STORM SEWER.
21. NOT USED.
22. NOT USED.
23. PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE HUB DRAIN PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE HUB DRAIN. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.
24. PROVIDE WATER HEATER DRAINAGE AS PER DETAILS ON M302/M303.
25. CONNECT NEW BURIED SANITARY AND/OR STORM DRAIN LINE TO EXISTING OF SUFFICIENT SIZE AT THIS LOCATION. SIZE AS SHOWN.

SANITARY HYDRAULIC LOAD FIXTURE UNITS

TAG	DESCRIPTION	SAN (FU)	No. OF FIXTURES	TOTAL OF FIXTURE UNITS
MV-1	KITCHEN HAND SINK	1 1/2	3	4.5
MB-1	MOP SINK	3	1	3
WC	WATER CLOSET (FLUSH TANK)	4	1	4
WC-1	WATER CLOSET (BARRIER FREE-FLUSH TANK)	4	1	4
L	LAVATORY	1 1/2	1	1 1/2
L-1	LAVATORY (BARRIER FREE)	1 1/2	1	1 1/2
HD-1	3" HUB DRAIN	3	7	21
FD-1	3" FLOOR DRAIN	3	4	12
FD-2	3" FUNNEL FLOOR DRAIN	3	2	6
TD-1	TRENCH DRAIN	3	1	3
TOTAL:				60.5

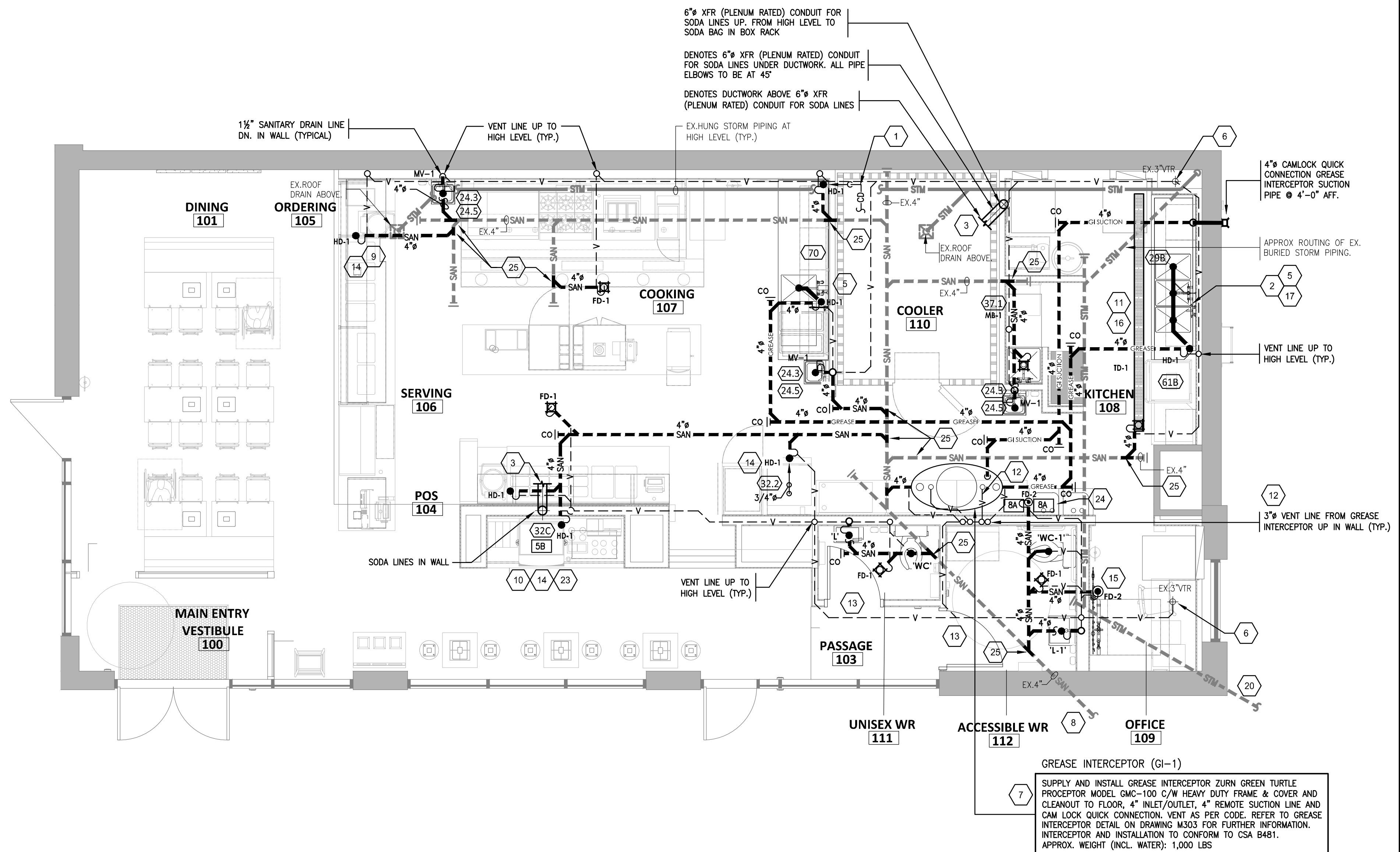
GREASE HYDRAULIC LOAD FIXTURE UNITS

TAG	DESCRIPTION	SAN (FU)	No. OF FIXTURES	TOTAL OF FIXTURE UNITS
22	PREP. SINK	3	1	3
29B	3 COMPARTMENT SINK	3	1	3
TOTAL:				6

GREASE INTERCEPTOR SIZING CALCULATION

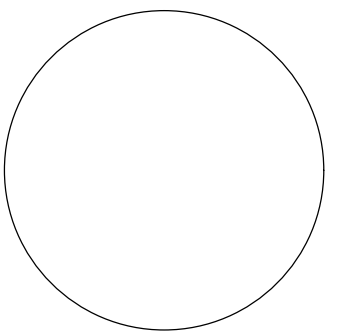
EACH COMPARTMENT OF THE SINK IS 22"x16"x12"
 3 COMPARTMENT SINK = 3 x (22"x16"x12") DIVIDED BY 231 = 54 GAL. x 75% = 41 US GAL.
 1 COMPARTMENT SINK = 1 x (24"x12"x18") DIVIDED BY 231 = 22 GAL. x 75% = 16.5 US GAL.
 TOTAL = 57.5 US GAL.

ASSIGN 2 MINUTE DRAIN DOWN TIME TO 58 USG = 29 USGPM
 GREASE INTERCEPTOR: ZURN PROCEPTOR GMC 100 WITH 100 GPM CAPACITY IS SUFFICIENT TO SERVE THE SINKS. BASED ON 1 MINUTE DRAIN DOWN.



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NO.	DATE	ISSUED FOR	BY	STATUS
1	2023-01-06	ISSUED FOR ILL REVIEW	KL	
2	2023-01-18	ISSUED FOR PERMIT/TENDER	KL	
3	2023-03-31	ISSUED FOR SIM M-02	KL	
4	2023-03-31	ISSUED FOR CONSTRUCTION	KL	

Drawn: Checked:

KL AJG

Project No. SCALE:

22129 1/4" = 1'-0"

Contents:
PLUMBING PLAN
SANITARY DRAINAGE

M201

GENERAL NOTES

- PIPING LAYOUTS ON THE DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
- CONCEAL ALL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
- PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.
- PROVIDE STOP VALVES AT EACH FIXTURE.
- PROVIDE TRAP PRIMERS FOR FLOOR DRAINS AS SHOWN ON PLUMBING LAYOUTS.
- WHERE THE WATER OR GAS SUPPLY LINE SIZE NOTED ON THE PLAN DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
- PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
- INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE AND STORM PIPING PER SPECIFICATIONS AND DETAILS.
- PROVIDE GAS SHUT-OFF VALVE AND UNION AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT. ALL THREADED GAS PIPING CONNECTIONS TO EQUIPMENT SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR INSPECTION.
- REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR GAS PIPING.
- PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD-FREE.
- PROVIDE FIRE EXTINGUISHERS IN LOCATIONS COORDINATED WITH ARCHITECT AND FIRE MARSHALL. PROVIDE 2 MULTI-PURPOSE DRY CHEMICAL FIRE EXTINGUISHERS IN GENERAL SPACE, 2A-10BC RATING. PROVIDE TYPE K WET CHEMICAL FIRE EXTINGUISHER IN THE KITCHEN, 2A-K RATING.
- ALL WATER SERVICE TO WATER FILTER, POP CARBONATOR, ICE MACHINE, DISHWASHER, COFFEE MACHINE, CHEMICAL DETERGENT DISPENSERS ETC. TO BE C/W BACK FLOW PREVENTERS.

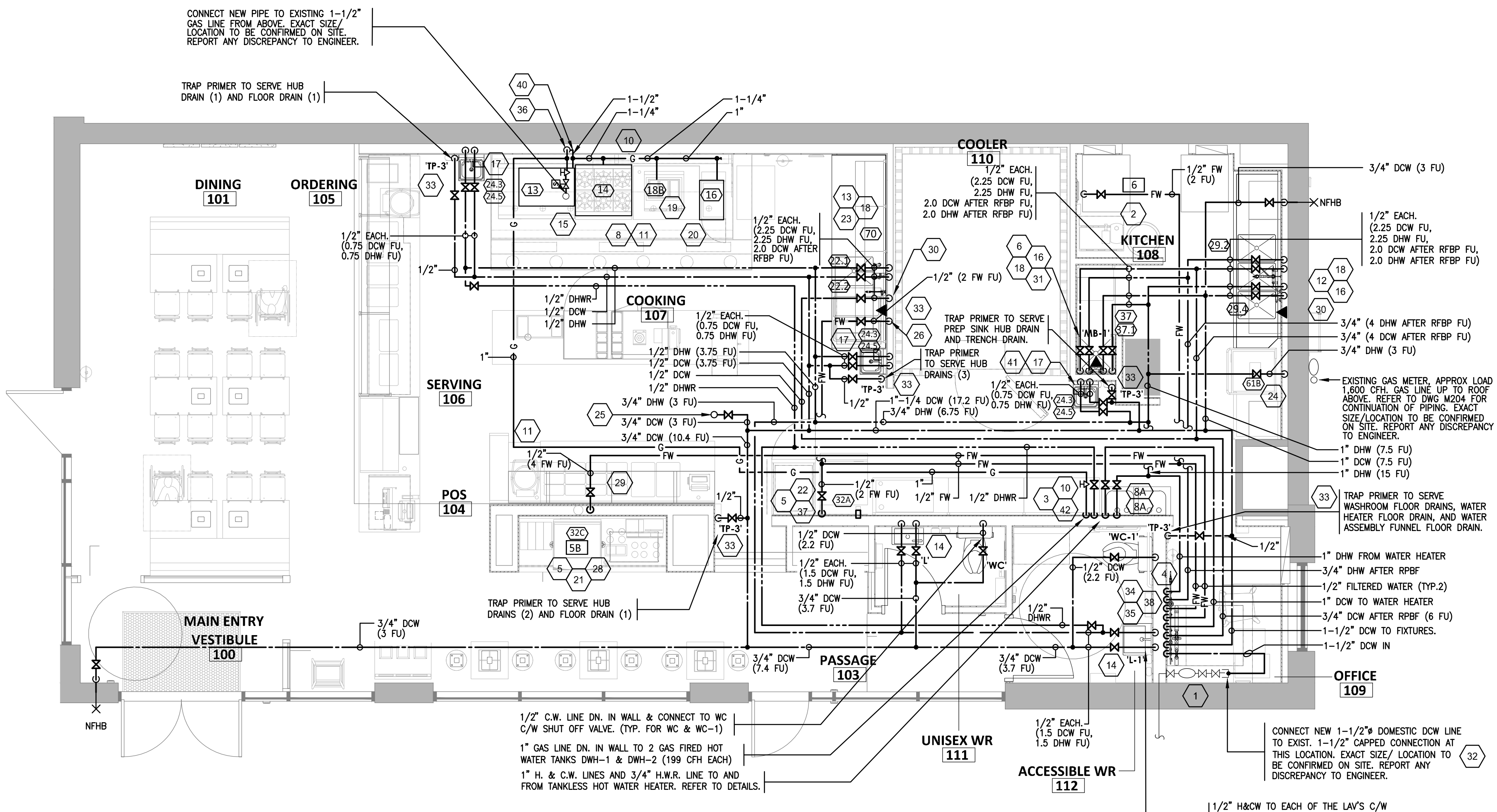
PLUMBING SUPPLY PLAN NOTES

- INCOMING DOMESTIC WATER SERVICE.
- 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 DETAILS ON M302/M303.
- PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAILS ON M302/M303. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR.
- 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.
- NOT USED.
- PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAILS ON M302/M303.
- NOT USED.
- PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT. (TYP.)
- 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 ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAILS ON M302/M303.
- CONNECT KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAILS ON M302/M303.
- CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAILS ON M302/M303.
- PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WAITS 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 DETAILS ON M302/M303.
- 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 UV SANITIZER SUPPLIER 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 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING 3/4" COPPER PIPE ONCE DISH MACHINE IS IN ITS FINAL LOCATION (FLEXIBLE 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 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.
- NOT USED.
- INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY UV SANITIZER SUPPLIER 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.
- CHEMICAL DISPENSER FAUCET MOUNTED AT 52" A.F.F. PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE. CONNECT CHEMICAL DISPENSER TO FAUCET.
- MOP BASIN FAUCET MOUNTED AT 36" A.F.F. CHEMICAL DISPENSER FAUCET MOUNTED ABOVE AT 64" A.F.F. PROVIDE ACCESSIBLE VALVES IN WATER SUPPLIES TO FIXTURE. CONNECT CHEMICAL DISPENSER TO FAUCET.
- MAIN DOMESTIC WATER SHUT-OFF VALVE TO REMAIN ACCESSIBLE. PERMANENTLY INSTALL "WATER SHUT-OFF" SIGN TO CEILING GRID BELOW.
- 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).
- 3/4" HOT AND COLD WATER LINES DOWN TO BACKFLOW PREVENTERS MOUNTED ON WALL BETWEEN 30" AND 60" A.F.F. PROVIDE 12" CLEARANCE ABOVE EACH DEVICE PER CSA B64 STANDARDS. LABEL PIPING TO CAN/CSB-24.3-92 STANDARD. PROVIDE THE FOLLOWING DEVICES:
 - 3/4" RP FOR COLD WATER DISTRIBUTION TO CHEMICAL DISPENSER FAUCETS
 - 3/4" RP FOR HOT WATER DISTRIBUTION TO CHEMICAL DISPENSER FAUCETS
- WATER FILTER ASSEMBLY MOUNTED ON WALL ABOVE BACKFLOW PREVENTERS. REFER TO DETAIL ON DWG M302. INSTALLATION OF BACKFLOW PREVENTERS SHALL CONFORM TO CSA B64 STANDARDS. LABEL PIPING TO CAN/CSB-24.3-92 STANDARDS.
- GAS LINE DOWN ON WALL TO KITCHEN EQUIPMENT GAS SHUT-OFF AND FIRE SUPPRESSION VALVES MOUNTED AT 7'-6" A.F.F. PROVIDE CHROME ESCUTCHEONS AT CEILING PENETRATION. PERMANENTLY INSTALL "KITCHEN GAS SHUT-OFF" SIGN.
- PROVIDE PVC SLEEVE THROUGH CEILING FOR ICE MAKER REFRIGERANT LINE SET AS PER DETAIL ON DWG M302.
- 1-1/2" C.W. LINE DN. ON WALL TO SHUT-OFF VALVE. MARK ON VALVE "MAIN COLD WATER SHUT-OFF"
- NOT USED.
- GAS LINE DOWN IN VENTED WALL CAVITY AND RUN ON WALL AT 18" A.F.F. PROVIDE 3/4" VALVED CONNECTIONS FOR FLEXIBLE GAS LINES SUPPLIED WITH COOKING EQUIPMENT. REFER TO DETAILS ON DWG M302/M303.
- BACK OF HOUSE HANDSINK TO BE INSTALLED WITH HANS MODEL 7620 FAUCET MOUNTED EYEWASH "ANION EYEPD", TO BE STAINLESS STEEL CONSTRUCTION AND C/W THERMOSTATIC PROTECTION. INSTALLATION TO BE COMPLIANT WITH ANSI Z358.1-2009.
- THIS CONTRACTOR TO PROVIDE A CONDENSATE DRAIN HOSE TO HOT WATER TANKS COMMON VENT SYSTEM C/W CONDENSATE DRAIN LOOP. EXTEND DRAIN HOSE TO FUNNEL FLOOR DRAIN. REFER TO HVAC DWG. FOR FURTHER INFO.

DOMESTIC WATER HYDRAULIC LOAD FIXTURE UNITS						
TAG	DESCRIPTION	HW (FU)	CW (FU)	WATER (TOTAL)	No. OF FIXTURES	TOTAL OF FIXTURE UNITS
MV-1	KITCHEN HAND SINK	0.75	0.75	1	3	3
29B	3 COMPARTMENT SINK	2 1/4	2 1/4	3	1	3
29.4	3 COMP. PREP. SINK CHEMICAL FAUCET	2	2	3	1	3
22	PREP. SINK	2 1/4	2 1/4	3	1	3
70	SPEED FILL FAUCET	—	2	2	1	2
61	DISHWASHER	3	—	3	1	3
MB-1	MOP SINK	2 1/4	2 1/4	3	1	3
37.1	MOP SINK CHEMICAL FAUCET	2	2	3	1	3
WC	WATER CLOSET (FLUSH TANK)	—	2.2	2.2	1	2.2
WC-1	WATER CLOSET (BARRIER FREE-FLUSH TANK)	—	2.2	2.2	1	2.2
L	LAVATORY	1 1/2	1 1/2	2	1	2
L-1	LAVATORY (BARRIER FREE)	1 1/2	1 1/2	2	1	2
32A	ICE MACHINE	—	2	2	1	2
32C	ICE MACHINE	—	4	4	1	4
6	SODA CARBONATOR	—	2	2	1	2
NFHB	HOSE BIBB	—	3	3	1	3
TOTAL:						42.4

PLUMBING GAS CONNECTIONS			
TAG	DESCRIPTION	CONNECTION SIZE	INPUT
DWH-1	WATER HEATER (GAS TANKLESS)	3/4"	199,000 Btu/h
DWH-2	WATER HEATER (GAS TANKLESS)	3/4"	199,000 Btu/h
FB-1	GAS FRYER	3/4"	90,000 Btu/h
GR-1	GAS GRIDDLE	3/4"	110,000 Btu/h
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1/2"	294,960 Btu/h
MAU-2	DIRECT-FIRED MAKEUP AIR UNIT	1/2"	130,389 Btu/h
RC-1	RICE COOKER	3/4"	33,000 Btu/h
RN-1	6 BURNER RANGE	3/4"	192,000 Btu/h
GRAND TOTAL:			1,248,349Btu/h

NOTES: 1. PRESSURE REQUIRED AFTER METER: 7" W.C.



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5	2023-03-31	ISSUED FOR CONSTRUCTION	KL

Drawn: KL
 Checked: AJG

Project No: 22129
 SCALE: 1/4" = 1'-0"

Contents:
PLUMBING PLAN
WATER AND GAS

M202

GENERAL NOTES

- 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 MATERIAL NECESSARY FOR A COMPLETE SYSTEM.
- DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- AIR CONDITIONED SUPPLY DUCTWORK INSTALLED IN UNCONDITIONED CEILING SPACE TO BE EXTERNALLY INSULATED TO R-3.5.
- UNLESS NOTED OTHERWISE, RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITRED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- REPLACE AIR FILTERS WITH NEW MERV 8 FILTERS AT TURNOVER.
- ALL DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEAR HEIGHT. COORDINATE DUCTWORK LAYOUT WITH WATER AND SPRINKLER PIPING, LIGHTING, CEILING AND BULKHEADS PRIOR TO INSTALLATION.
- MAINTAIN ALL REQUIRED MANUFACTURER'S SERVICE AND MAINTENANCE CLEARANCES TO NOTED MECHANICAL EQUIPMENT.
- GREASE EXHAUST DUCTWORK SHALL BE 16-GAUGE ALL-WELDED BLACK IRON OR FACTORY-MANUFACTURED IN ACCORDANCE WITH NFPA 96 STANDARDS. PROVIDE NFPA 96 COMPLIANT DUCT CLEANOUTS AT ALL CHANGES OF DIRECTION AND EVERY 12 FT WITH MINIMUM 3 FT CLEARANCE PROVIDED. HORIZONTAL DUCTWORK TO RUN WITH 2% SLOPE BACK TO HOOD. MAINTAIN ALL REQUIRED CLEARANCES TO COMBUSTIBLES AND PROVIDE CLEARANCE REDUCTION PANELS AS OUTLINED IN NFPA 96 OR ULC LISTED FIRE WRAP AS REQUIRED.
- REFER TO KITCHEN EXHAUST SYSTEM DRAWINGS M304 TO M312 FOR FURTHER DETAILS REGARDING CAPTIVE AIR EQUIPMENT INSTALLATION AND SPECIFICATIONS.

CONTROL FUNCTIONS

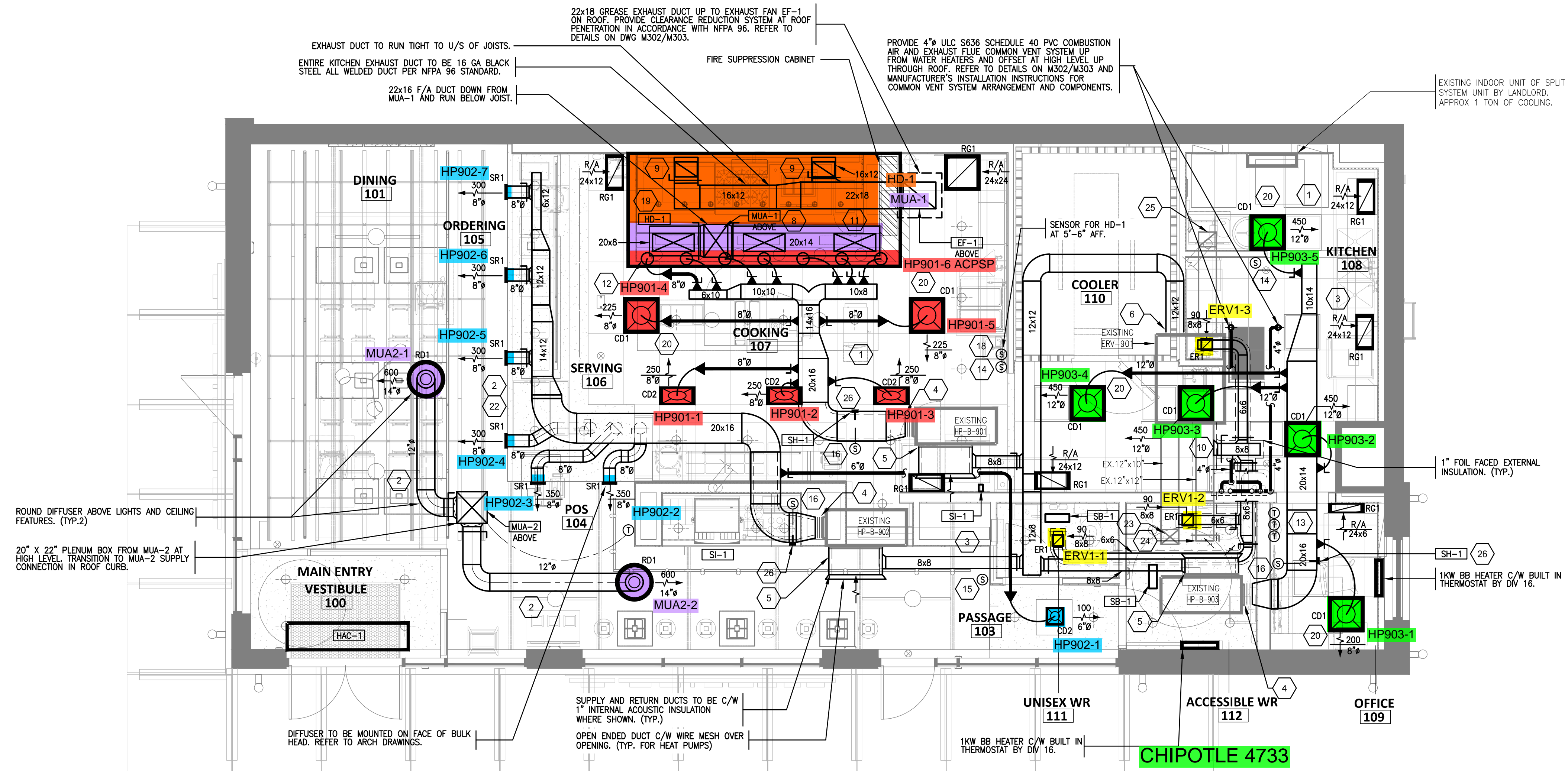
- THE MAIN COOKING EXHAUST FAN, ELECTRIC DUCT HEATER AND SUPPLY FAN SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THERMOSTATS LOCATED 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.
- THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

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.
- DUCT TO TRANSITION TO FULL SIZE AT HEAT PUMP SUPPLY OPENING C/W FLEXIBLE CONNECTION. CONFIRM EXACT ROUTING AND SIZING ON SITE.
- DUCT TO TRANSITION TO FULL SIZE AT HEAT PUMP RETURN OPENING. CONFIRM EXACT ROUTING AND SIZING ON SITE.
- NOT USED.
- DUCT UP THROUGH ROOF. TRANSITION TO MUA-1 SUPPLY CONNECTION IN ROOF CURB.
- DUCTS UP FROM HOOD COLLAR TO CONNECT TO RISER AT HIGH LEVEL. ENTIRE INSTALLATION FROM HOOD TO EF-1 TO BE COMPLIANT WITH NFPA 96. PROVIDE RADIUSSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- CONNECT TO EXISTING SANITARY EXHAUST DUCT.
- DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3. REFER TO KITCHEN EXHAUST DETAILS ON M304-M312.
- 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. BALANCE TO 114 CFM. TYPICAL FOR 7.
- INSTALL GRIDPOINT THERMOSTATS FURNISHED BY ENERGY MANAGEMENT SYSTEM SUPPLIER FOR HEAT PUMPS AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING AND WALL MOUNTED EQUIPMENT IN THIS AREA. PROVIDE WIRING AS SHOWN ON ELECTRICAL DETAILS. LABEL EACH THERMOSTAT ACCORDINGLY. THERMOSTATS TO BE SUPPLIED WITH 75°-0" FT-6 PLENUM RATED CABLE AS REQUIRED. SET THERMOSTAT FOR CONTINUOUS FAN OPERATION.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY ENERGY MANAGEMENT SYSTEM SUPPLIER FOR BACK OF HOUSE HEAT PUMP AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN ON ELECTRICAL DETAILS.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY ENERGY MANAGEMENT SYSTEM SUPPLIER FOR DINING AREA HEAT PUMP AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN ON ELECTRICAL DETAILS.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY ENERGY MANAGEMENT SYSTEM SUPPLIER FOR HEAT PUMP IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN ON ELECTRICAL DETAILS.
- NOT USED.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 66" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- INSTALL KITCHEN HOOD HD-1 SUPPLIED BY CHIPOTLE. 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 ON M302-M312. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAILS ON M302/M303. TYPICAL.
- NOT USED.
- ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7'-0" AFF WITH NO DRAFTS FELT IN THE DINING ROOM. (TYPICAL)
- EXISTING ERV FRESH AIR INTAKE FROM ROOF ABOVE.
- EXISTING ERV RETURN AIR BALANCED FOR 330 CFM. PROVIDE WIRE MESH OVER OPENING.
- EXISTING ERV EXHAUST AIR OUT THRU ROOF.
- INSTALL REME HALO AIR PURIFIER FURNISHED BY UV SANITIZER SUPPLIER IN HEAT PUMP DUCTWORK PER DETAILS ON M302/M303. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY HEAT PUMP ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.

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 1 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



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NO.	DATE	DESCRIPTION	BY
1	2023-01-06	ISSUED FOR ILL REVIEW	KL
2	2023-01-18	ISSUED FOR PERMIT/TENDER	KL
3	2023-02-23	ISSUED FOR ADD M-01	KL
4	2023-03-06	ISSUED FOR SIM M-01	KL
5	2023-03-31	ISSUED FOR SIM M-02	KL
6	2023-03-31	ISSUED FOR CONSTRUCTION	KL

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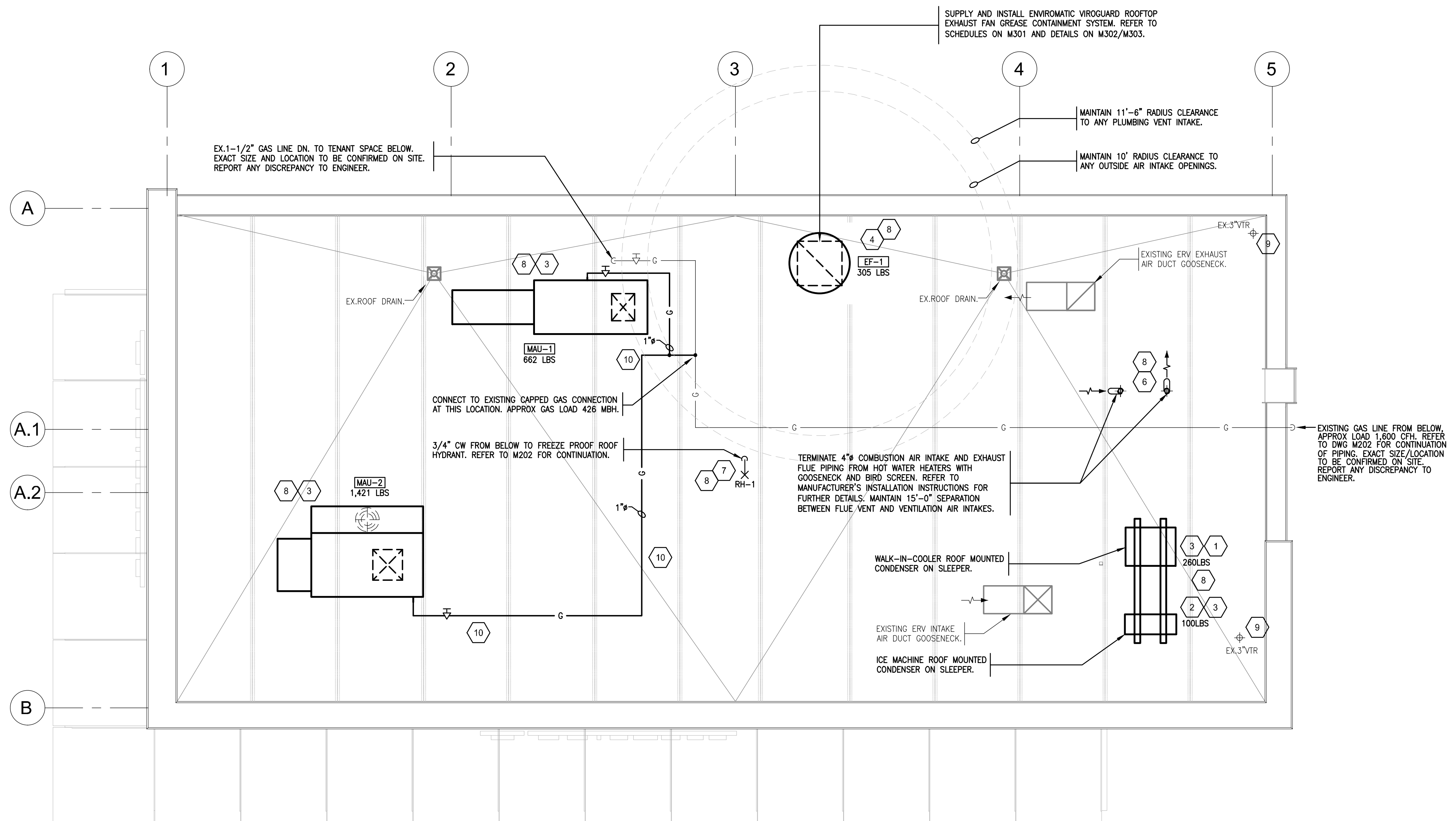
Project No: 22129
SCALE: 1/4" = 1'-0"

Contents:
**GROUND FLOOR PLAN
HVAC**

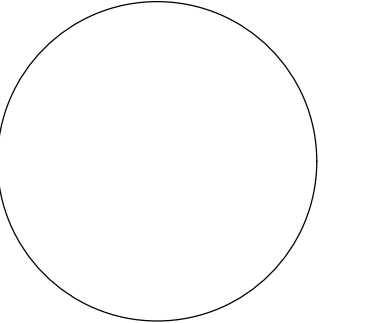
M203

ROOF PLAN NOTES

- 1 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.
- 2 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.
- 3 INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 4 INSTALL EXHAUST FAN EF-1 PER DETAILS ON M302/M303 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- 5 NOT USED.
- 6 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 TANKLESS WATER HEATER DETAILS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
- 7 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.
- 8 COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- 9 EXISTING 3" VENT THROUGH THE ROOF.
- 10 SUPPORT GAS PIPING ON ROOF PER DETAILS ON M302/M303. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
- 11 NOT USED.



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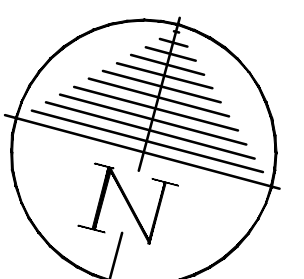
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 Checked: AJG

Project No. 22129
 SCALE: 1/4" = 1'-0"

Contents:
 ROOF PLAN
 MECHANICAL

M204



HVAC EQUIPMENT SCHEDULE															
TAG	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. (N. WC)	MCA	MOCP (A)	ELECTRICAL (V/Ph/Hz)	MOTOR HP	HEATING (MBH)		NOMINAL TONNAGE	FRESH AIR MIN. %	WEIGHT (LBS)	REMARKS
										INPUT	OUTPUT				
HP-B-901	KITCHEN HEAT PUMP UNIT	CLIMATEMASTER	TC-060	2,000	0.3	24.3	-	208-230/60/3	-	-	82.3	5.0	10	278	LANDLORD PROVIDED AND INSTALLED HEAT PUMP. BACK DISCHARGE, PSC MOTOR, LEFT RETURN, SS DRAIN PAN, CXM CONTROLS, STANDARD RANGE, ULTRA QUIET, 1" FILTER FRAME, UNCOATED AIR COIL, COPPER WATER COIL.
HP-B-902	DINING ROOM HEAT PUMP UNIT	CLIMATEMASTER	TC-060	2,000	0.3	24.3	-	208-230/60/3	-	-	82.3	5.0	10	278	
HP-B-903	BACK OF HOUSE HEAT PUMP UNIT	CLIMATEMASTER	TC-060	2,000	0.3	24.3	-	208-230/60/3	-	-	82.3	5.0	10	278	
ERV-901	ENERGY RECOVERY VENTILATOR	SPINNAKER	RERVP-256	300/600	0.80	3.6	-	575/3/60	2x1HP	-	-	-	100	-	EXISTING CEILING MOUNTED ERV TO REMAIN C/W SPRING TYPE VIBRATION ISOLATORS, HIGH EFFICIENCY TWO SPEED MOTORS, MOTORIZED EXHAUST AND O/A INTAKE DAMPERS. EXHAUST ONLY FROST CONTROL, FREE COOLING, FRESH AIR AMBIENT TEMPERATURE CONTROL, 7-DAY PROGRAMMABLE TIMER (REMOTE), CO2 SENSOR, NON-FUSED DISCONNECT SWITCH, MERV 8 & MERV 13 FILTERS, DIGITAL CFM MONITOR. INSPECT AND ENSURE PROPER OPERATION. PROVIDE COMPLETE MAINTENANCE REPORT OF UNIT TO CMG PROJECT MANAGER WITH ANY RECOMMENDATIONS OF UNIT CONDITION. REPLACE FILTERS UPON COMPLETION OF CONSTRUCTION.
MAU-1	MAKE-UP AIR UNIT	CAPTIVE AIRE	A1-D.250-20D	2,500	0.50	3.1	15	575/3/60	2.0	294.96 (GAS)	271.36 (GAS)	-	100	662	DIRECT FIRED MAKE-UP AIR UNIT SUPPLIED BY OWNER AND INSTALLED BY THIS DIVISION. UNIT COMPLETE WITH ROOF CURB, INTAKE HOOD AND MOTORIZED DAMPER. OPERATION INTERLOCKED WITH EXHAUST FAN EF-1. REFER TO DRAWINGS M304-M310 FOR FURTHER DETAILS.
MAU-2	MAKE-UP AIR UNIT	CAPTIVE AIRE	CASRTU1-1.150-13-ST	1,200	0.50	11.3	15	575/3/60	1.0	130.39 (GAS)	105.62 (GAS)	-	100	1,421	MAKE-UP AIR UNIT SUPPLIED BY OWNER AND INSTALLED BY THIS DIVISION. UNIT COMPLETE WITH ROOF CURB, INTAKE HOOD AND MOTORIZED DAMPER. OPERATION INTERLOCKED WITH MAU-1 AND EXHAUST FAN EF-1. C/W DISCHARGE AIR SENSOR AND REMOTE T'STAT. REFER TO DRAWINGS M311-M312 FOR FURTHER DETAILS.

FAN SCHEDULE													
TAG	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. (N.WC)	FLA (A)	MOCP (A)	ELECTRICAL (V/Ph/Hz)	MOTOR HP	RPM	WEIGHT (LBS)	REMARKS	
EF-1	KITCHEN EXHAUST FAN	CAPTIVE AIRE	DU240HFA	3,200	1.5	3.5	-	575V/3/60	3.0	858	348	ULC LISTED ROOF MOUNTED UPBLAST KITCHEN EXHAUST FAN SUPPLIED BY OWNER AND INSTALLED BY THIS DIVISION. FAN COMPLETE WITH VENTED ROOF CURB, GREASE BOX, ENVIRONMENTAL VIROGUARD SYSTEM AND HINGED FAN ADAPTER. FAN INTERLOCKED WITH MAKE-UP AIR UNIT MAU-1. REFER TO DRAWINGS M304-M312 FOR FURTHER DETAILS.	

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE													
TAG	DESCRIPTION	MANUFACTURER	MODEL	SPECIFICATION	CONNECTION SIZES								
					HW	CW	DRAIN						
FD-1	FLOOR DRAIN (KITCHEN)	ZURN	ZN-211-B5-P-Y	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR, POLISHED NICKEL BRONZE STRAINER, 1/2" TRAP PRIMER CONNECTION, SEDIMENT BUCKET.	---	---	3"						
FD-2	FUNNEL FLOOR DRAIN	ZURN	ZN-211-BF-P	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR, POLISHED NICKEL BRONZE OPEN THROAT OVAL FUNNEL GRATE, 1/2" TRAP PRIMER CONNECTION.	---	---	3"						
CO	FLOOR CLEANOUT	ZURN	ZN-1602-SP	ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH NEOPRENE BODY SLEEVE, POLISHED NICKEL BRONZE ADJUSTABLE HEAD AND GASKETED, SECURED, SCORIATED COVER, SEAL PLUG.	---	---	4"						
MB-1	MOP BASIN	FIAT	MSB2424	24"x24"x10" MOLDED STONE MOP BASIN. INSTALL OWNER-SUPPLIED SERVICE FAUCET WITH BUILT-IN STOPS, LEVER HANDLES AND WALL BRACE.	1/2"	1/2"	3"						
MV-1	KITCHEN HAND SINK MIXING VALVE	LEONARD	270-LF-BRKT	LEAD-FREE THERMOSTATIC POINT OF USE MIXING VALVE C/W MOUNTING BRACKETS.	1/2"	1/2"	---						
DCVA	DOUBLE CHECK VALVE ASSEMBLY	WATTS	LF007	LEAD FREE CAST COPPER SILICON ALLOY BODY CONSTRUCTION, TOP MOUNTED LEAD FREE BALL VALVE TEST COCKS.	---	1/2" FW	---						
RP	REDUCED PRESSURE PRINCIPLE ASSEMBLY	WATTS	LF009-QT	LEAD FREE CAST COPPER SILICON ALLOY BODY CONSTRUCTION, BALL VALVE TEST COCKS, QUARTER-TURN SHUTOFF VALVES, AIR GAP DRAIN FITTING.	SEE PLAN	SEE PLAN	---						
HD-1	HUB DRAIN	ZURN	ZN-211-S	DURA COATED CAST IRON BODY WITH BOTTOM OUTLET POLISHED NICKEL BRONZE HUB.	---	---	3"						
TD-1	TRENCH DRAIN	ZURN	Z886-8601 8602	(6"x160" HOPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, CLASS-A HEEL-PROOF POLYETHYLENE GRATE. SEE DETAILS ON M302/M303 FOR REDUCTION TO 3" DRAIN CONNECTION.	---	---	3"						
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	PRECISION PLUMBING PRODUCTS	PT-500 W/DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION OUTLETS.	---	1/2"	---						
RH-1	FREEZE PROOF ROOF HYDRANT	ZURN	Z138XL-VB	EXPOSED, LEAD-FREE, NON-FREEZE ROOF HYDRANT. DURA-COATED CAST IRON HEAD AND LIFT HANDLE WITH LOCK OPTION, GALVANIZED STEEL CASING, BRONZE AND STAINLESS STEEL INTERIOR COMPONENTS, 3/4" [19] INLET CONNECTION WITH 1/8" [3] TAPPED DRAIN PORT ON HOUSING, AND 3/4" [19] MALE HOSE CONNECTION COMPLETE WITH DURA-COATED CAST IRON ROOF SUPPORT SLEEVE WITH WIDE ANCHORING FLANGE AND CLAMP COLLAR. PROVIDE 3/4" [19] ADAPTER VACUUM BREAKER.	---	1/2"	---						
L	WASHROOM LAVATORY	AMERICAN STANDARD (DAV)	COSSU D20126100.415 (R)	20"x10" FIRE CLAY WALL-HUNG LAVATORY WITH OVERFLOW, SINGLE HOLE, RIGHT HAND FAUCET LEDGE (SEE PLAN), OPEN GRID STRAINER, OFFSET WASTE ASSEMBLY. TRAP, SUPPLIES STOPS AND ZURN 1251 CONCEALED AIR WALL SUPPORT CARRIER. TRIM: SLOAN BASYS EPX-200-HLT-CP-0.5GPM-MLM-IR-FCT FAUCET COMPLETE WITH EAF-37, 120V PLUG IN TRANSFORMER, MIXING VALVE MIX 60A. RECEPTACLE TO BE LOCATED 24" A.F.F. UNDER LAVATORY.	---	1/2"	---						
L-1	WASHROOM LAVATORY BARRIER FREE	AMERICAN STANDARD	MURRO 0954.000	WALL HUNG VITREOUS CHINA BASIN WITH ELECTRONIC FAUCET, MIXING VALVE, OPEN GRID STRAINER, OFFSET WASTE ASSEMBLY, TRAP, SUPPLIES WITH STOPS & FLOOR BASED CHAIR CARRIER AND 0.5 GAL AERATOR. FIXTURE: AMERICAN STANDARD 'MURRO' 0954.000 TRIM: SLOAN BASYS EPX-200-HLT-CP-0.5GPM-MLM-IR-FCT FAUCET COMPLETE WITH EAF-37, 120V PLUG IN TRANSFORMER, MIXING VALVE MIX 60A. TRANSFORMER TO BE LOCATED BELOW SINK. REFER TO DETAILS. CARRIER: ZURN Z-1231-SL.	1/2"	1/2"	1-1/4"						
WC	WATER CLOSET	AMERICAN STANDARD	VORMAX 238A114.020 ELONGATED	TANK TYPE TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, ULTRA HIGH EFFICIENCY UHET 3.8 LPF (1.0 GPF), WHITE FINISH VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL, RIGHT HEIGHT RIM AT 419 MM (16-1/2"). MINIMUM 305 MM (12") ROUGH-IN FROM WALL TO THE CENTER OF WASTE OUTLET, VORMAX JET FLUSH ACTION, MANUAL, POLISHED CHROME LEFT-HAND TRIP LEVER (7381741-200.0020A), TANK NOT LINED, WITHOUT TANK COVER LOCKING DEVICE, GRAVITY-ASSISTED FLUSH, DUAL INJECTION FLUSH VALVES, TANK COUPLING COMPONENTS, 52 MM (2-1/16") TRAPWAY, CLEAN-CURVE RIM ELIMINATES RIM AREA WHERE DIRT AND BUILDUP HIDE, INCLUDES EZ-INSTALL TOOLS, TWO (2) COLOUR-MATCHED BOLT CAPS, 454 MM (17-7/8") WIDE, 767 MM (30-3/16") FROM FINISHED WALL, 819 MM (32-1/4") HIGH. COMPLIANCES: ASME A112.19.2 COMPLIANT, CSA B45.1 COMPLIANT, EPA WATERSENSE COMPLIANT, C/W BOLT DOWN COVER, 3/8" C.P. SUPPLY WITH SCREW DRIVER STOP AND WHITE OPEN FRONT SEAT WITH COVER AND STAINLESS STEEL HINGE, POSTS AND NUTS. FIXTURE: AMERICAN STANDARD 238A114.020 TOILET SEAT: CENTOCO 820 STSCC COMPLETE WITH STAINLESS STEEL HINGES, POSTS AND NUTS.	---	1/2"	3"						
NFHB	NON-FREEZE HOSE BIBB	ZURN	Z1320	"ANTI-SIPHON" AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION COMPLETE WITH COPPER CASING, ALL BRONZE INTERIOR PARTS, 3/4" MALE PIPE THREAD INLET, NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK.	---	Z1320	---						
ET-1	EXPANSION TANK	AMTROL	ST-5	2 GALLON CAPACITY.	---	3/4"	---						

OWNER SUPPLIED EQUIPMENT - PLUMBING, DRAINAGE & GAS REQUIREMENTS

KITCHEN EQUIPMENT LIST													
ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	WATER			DRAIN		GAS	REMARKS			
				CW	FW	HW	DIRECT	INDIRECT					
1A	Front Serve Line - 12 Pan - POS Left	Delfield	12 Pan Serve Line POS 221x38.5in (Left)						3/4"	PROVIDE VALVE ON DRAIN. DRAIN TO FLOOR SINK.			
13	Grill 48in - Natural Gas - Divider Left	Woodstone	WS-PL-48-36-4-CT-Left						3/4"	REFER TO GAS LOAD SUMMARY FOR CAPACITY.			
14	Range 6 Burner - Natural Gas	Garland	U36-6S						3/4"	REFER TO GAS LOAD SUMMARY FOR CAPACITY.			
16	Fryer - Gas - Standard Efficiency	Pitco	35CS						3/4"	REFER TO GAS LOAD SUMMARY FOR CAPACITY.			
18B	Gas Rice Cooker	Woodstone	WS-RGC-60						3/4"	REFER TO GAS LOAD SUMMARY FOR CAPACITY.			
22	Prep Sink - Corner - Left	Trimark	S1-122x34-US-F-L						2"				
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01	1/2"		1/2"							
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730	1/2"						CW SUPPLY FROM RP BFP WALL MOUNTED BELOW WATER FILTERS. PROVIDE 3/4" HOSE CONNECTION TO VICTORY WASH CHEMICAL DISPENSER.			
22.3	Prep Sink Drain Assembly	T&S	B-3950						2"	DRAIN TO HUB DRAIN			
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF						1-1/2"				
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04	1/2"		1/2"				110°F HW FROM MIXING VALVE BELOW SINK.			
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWV	1/2"		1/2"			2"				
29.3	Dish Sink Drain Assembly	T&S	B-3950						2"	DRAIN TO HUB DRAIN			
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1/2"		1/2"				CW & HW SUPPLIES FROM RP BFP'S WALL MOUNTED BELOW WATER FILTERS. PROVIDE 3/4" HOSE CONNECTION TO ECOLAB CHEMICAL DISPENSER.			
29B	3 Comp. Sink - 18x24in bowls - 111 3/4in	Nationwide fabrication: Marlo Mfg	S3-30x111.75x36.5-FF	1/2"		1/2"			2"				
32.2	Ice Maker - Storage Bin	Hoshizaki	B500PF						3/4"	DRAIN TO HUB DRAIN. FW SUPPLY FROM DCVA WALL MOUNTED BELOW WATER FILTERS.			
32.3	Icemaker - Filter	Cuno	Bev 190	1/2"									
32.4	Ice Maker - Scale Inhibitor	Cuno	CFS440-HT	1/2"									
32A	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MRJ										
32C	Ice Maker Mounted On Soda Machine - Air Cooled	Hoshizaki	KMD-530MAJ										
33	Walk In Cooler 9x12x10ft 3in - Standard	Manitowoc/Norlake	CHP9125R-RS										
37	Mop Sink Faucet	T&S	B-0660-BSTR	1/2"		1/2"							
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX	1/2"		1/2"				CW & HW SUPPLIES FROM RP BFP'S WALL MOUNTED BELOW WATER FILTERS. PROVIDE 3/4" HOSE CONNECTION TO ECOLAB CHEMICAL DISPENSER.			
39B	DML 2.0 130in - Right - W/POS & Cash Drawer	Franke/Delfield	DML 2.0_RT-130x39										
61B	Dish Machine	Hobart	AM155CB-16	1/2"		3/4"			2"	DRAIN TO HUB DRAIN			
69B	M4.0 Simplicity Bubblers Mini-Quad	Crathco	CS-4E-16						3/4"	DRAIN TO HUB DRAIN			
70	Speed Fill Faucet	T&S	B-0432 MOD	1/2"									

GRILLE AND DIFFUSER SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
CD1	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE L	24"x24", LAY-IN, INTEGRAL OBD, WHITE FINISH
CD2	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE L	LAY-IN, INTEGRAL OBD, WHITE FINISH. REMOVE 4-WAY DEFLECTOR, SEE PLAN FOR SIZE.
RD1	ROUND DIFFUSER	NAILOR	RNR	STEEL, 3-POSITION, ROUND CONE DIFFUSER, WHITE FINISH.
ER1	PERFORATED CEILING EXHAUST	NAILOR	4330R TYPE S	8"x8" SURFACE MOUNT, INTEGRAL OBD, WHITE FINISH
RG1	PERFORATED CEILING RETURN	NAILOR	4330R TYPE L	LAY-IN, INTEGRAL OBD, WHITE FINISH. SEE PLAN FOR SIZE.
RG2	PERFORATED CEILING RETURN	NAILOR	51FH	SURFACE MOUNT, HORIZONTAL 0° FIXED BLADE, INTEGRAL OBD, PAINTED TO MATCH WALL COLOR. SEE PLAN FOR SIZE.
RG3	PERFORATED CEILING RETURN	NAILOR	4330R TYPE S	24"x20" SURFACE MOUNT, INTEGRAL OBD, WHITE FINISH
SR1	ADJUSTABLE TURBO NOZZLE	AIR CONCEPTS	ANR	WALL MOUNT, PROVIDE WITH CONCEALED MOUNTING AND FACE ACCESSIBLE OBD, WHITE FINISH.
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	NAILOR	51DH	SURFACE MOUNT, HORIZONTAL FRONT BLADES, INTEGRAL OBD, MILL FINISH

EXHAUST HOOD SCHEDULE									
TAG	MANUFACTURER	MODEL	EXHAUST (CFM)	MUA (CFM)	SUPPLY (CFM)	ELECTRICAL (V/Ph/Hz)	WEIGHT (LBS)	REMARKS	
HD-1	CAPTIVE AIRE	5424 ND-2-ACPPSP-F	3,200	2,500	800	120V/1/60	1,289	ULC LISTED TYPE-I WALL CANOPY HOOD WITH PERFORATED MUA AND AC SUPPLY PLENUMS, 18-GA 430 S/S CONSTRUCTION, UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, 4-POLE 20A CONTACTOR. FURNISH WITH VERTICAL END PANELS. REFER TO DETAILS ON M302, M303 AND DRAWINGS M304-M312.	

WATER HEATER SCHEDULE									
TAG	MANUFACTURER	MODEL	STORAGE (U.S.G.)	CAPACITY	RECOVERY (GPM)	MCA (A)	MAX FUSE (A)	ELECTRICAL (V/Ph/Hz)	REMARKS
DWH-1	NAVEN	NPE-240A	---	199 MBH	5.6 @ 67° RISE	---	---	120V/1/60	GAS FIRED FORCED DRAFT DIRECT VENT INSTANTANEOUS WATER HEATER MOUNTED ON WALL. PROVIDE WITH REMOTE CONTROLLER, CONDENSATE NEUTRALIZER, LEAD FREE "PLUMB EASY VALVE SET", AND HOT WATER RECIRC PUMP: GRUNDFOS, UPS 26-99 SFC.
DWH-2	NAVEN	NPE-240A	---	199 MBH	5.6 @ 67° RISE	---	---	120V/1/60	GAS FIRED FORCED DRAFT DIRECT VENT INSTANTANEOUS WATER HEATER MOUNTED ON WALL. PROVIDE WITH REMOTE CONTROLLER, CONDENSATE NEUTRALIZER, LEAD FREE "PLUMB EASY VALVE SET", AND HOT WATER RECIRC PUMP: GRUNDFOS, UPS 26-99 SFC.

HEATED AIR CURTAIN SCHEDULE												
TAG	DESCRIPTION	MANUFACTURER	MODEL	LENGTH		HEATING OUTPUT		SUPPLY FAN (CFM)	ELECTRICAL (V/Ph/Hz)	WEIGHT (LBS)	MOUNTING ARRANGEMENT	REMARKS
				MM	IN.	KW	MBH					
HAC-1	MAIN ENTRANCE	FRICO	PAEC3220E16-600	2,068	81.40	8/16	27/55	2,250	600/3/60	112	SUSPENDED	C/W ELECTRIC HEAT, REMOTE CONTROL, INTEGRATED REGULATION, DOOR CONTACTS, EC MOTORS, THREADED BARS FOR UNIT SUSPENSION ABOVE DOOR. CSA/ULC - EQUIVALENT CERTIFICATION.

AIR BALANCE SCHEDULE				
TAG	SUPPLY FLOW (CFM)	RETURN FLOW (CFM)	EXHAUST FLOW (CFM)	SUBTOTAL (CFM)
EF-1	0	0	3,200	-3,200
ERV	600	0	600	0
MAU-1	2,500	0	0	2,500
MAU-2	1,200	0	0	1,200
HP-B-901	2,000	2,000	0	0
HP-B-902	2,000	2,000	0	0
HP-B-903	2,000	2,000	0	0
NET PRESSURIZATION (CFM)				+500

VIROGUARD SCHEDULE					
TAG	DESCRIPTION	FAN	BASIS FOR DESIGN MANUFACTURER	DUCT CONNECTION SIZE	REMARKS
VO-1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	KITCHEN EXHAUST EF-1	ENVIRONMENTAL	18"x18"	NON-HURRICANE RATED. REFER TO HVAC AND ROOF PLANS FOR DUCT CONNECTION SIZE.

SANITIZING EQUIPMENT SCHEDULE					
TAG	COUNT	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
SB-1	2	BATHROOM AIR PURIFICATION UNIT	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION.
SH-1	3	HVAC AIR PURIFICATION UNIT	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAILS ON M302/M303 FOR INSTALLATION INFORMATION
SI-1	2	ICE MACHINE TREATMENT SYSTEM	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

Consultant:

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DESIGN BULLETIN: DB-04/2022

1	2023-01-06	ISSUED FOR ILL REVIEW	KL
2	2023-01-18	ISSUED FOR PERMIT/TENDER	KL
3	2023-02-23	ISSUED FOR ADD M-01	KL
4	2023-03-31	ISSUED FOR CONSTRUCTION	KL

Drawn: _____ Checked: _____

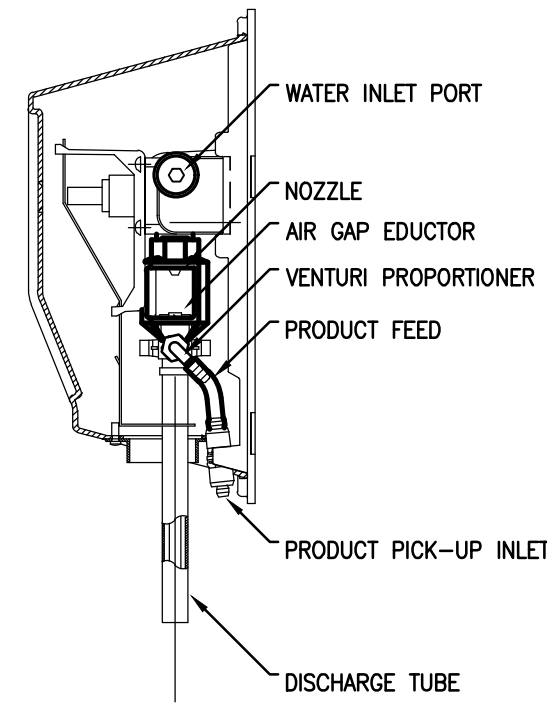
KL AJG

Project No. 22129 SCALE: N.T.S.

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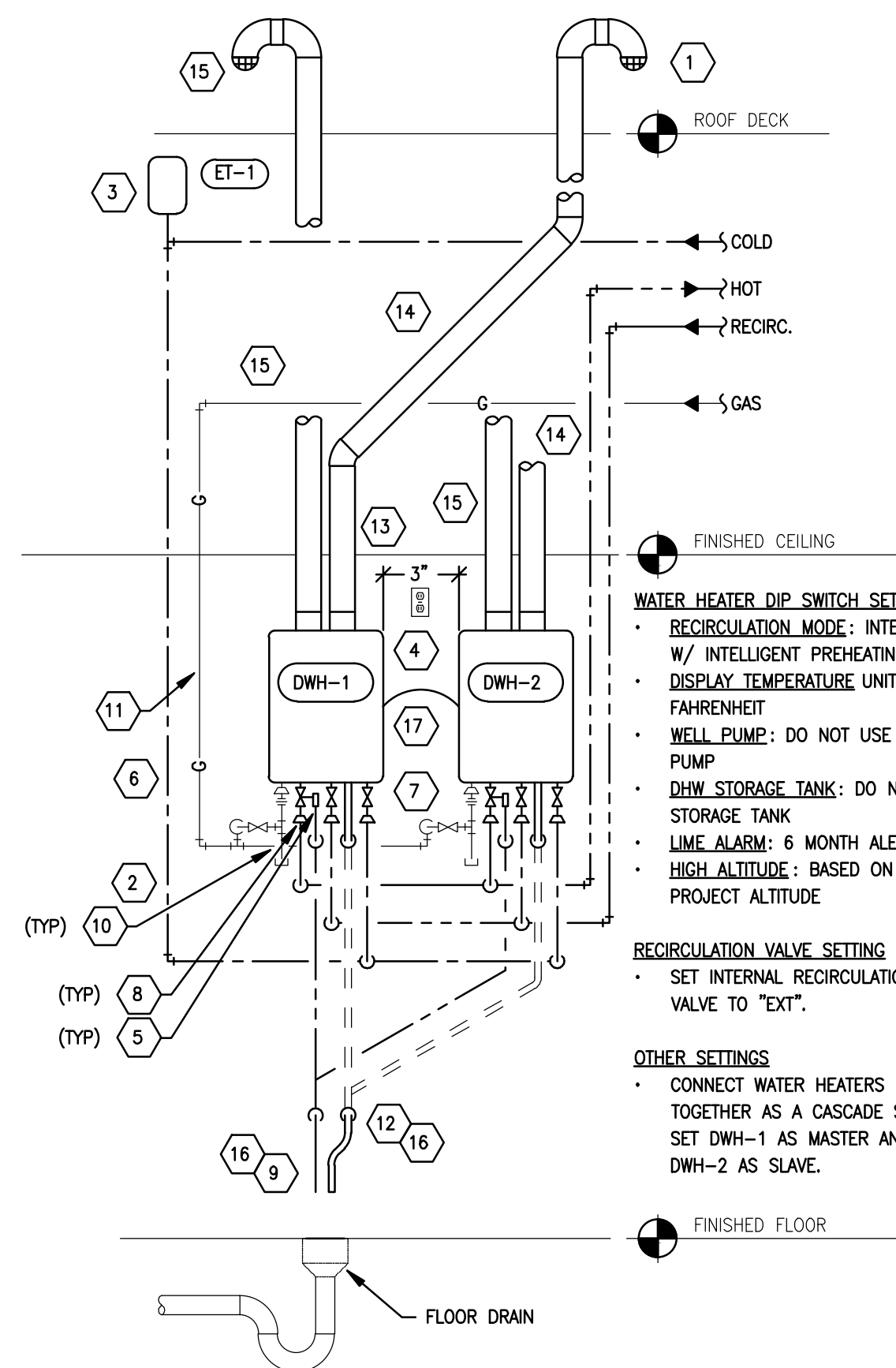
MECHANICAL SCHEDULES

M301



1 **CHEMICAL DISPENSER DETAIL**
M303 NTS

2 **NOT USED**
M303 NTS



WATER HEATER DETAIL NOTES

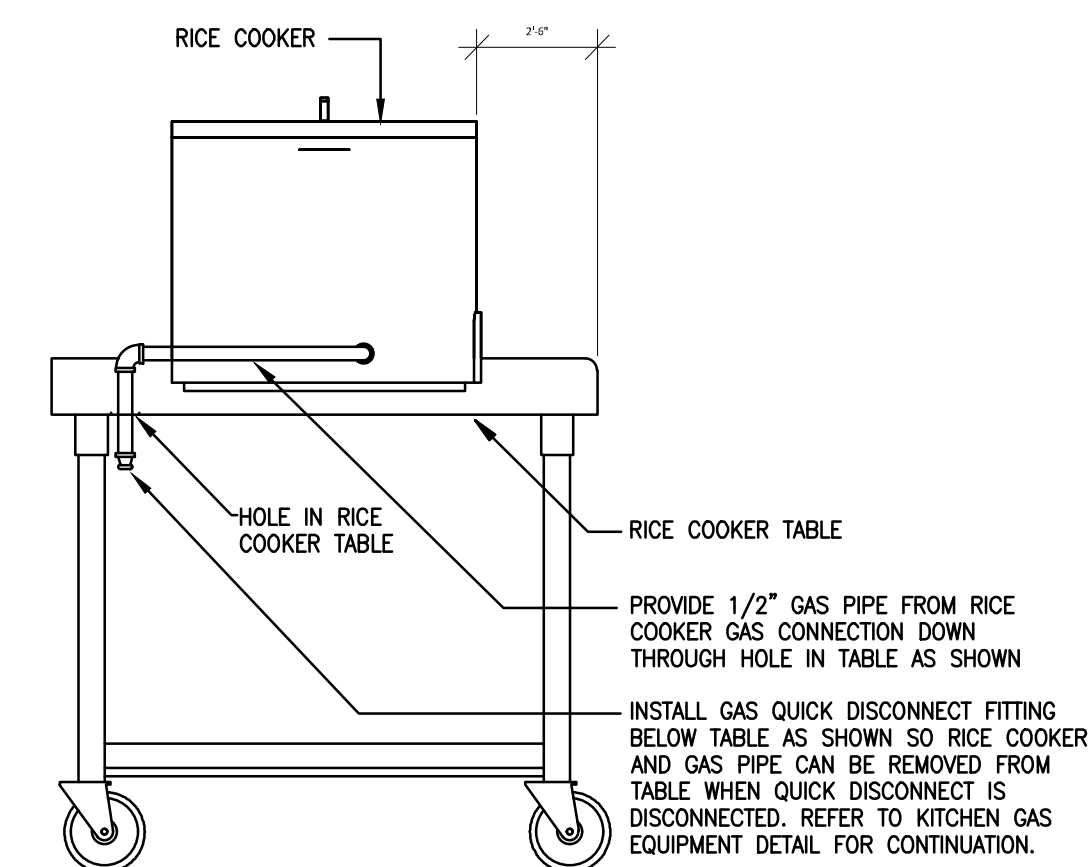
- PROVIDE TWO 90° ELBOWS AND A SCREEN FOR THE FLUE TERMINATION THROUGH THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ROUGH-IN COLD, HOT, AND RECIRC PIPES AT 64" AND GAS PIPE AT 61" BELOW THE FINISHED CEILING.
- PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
- PROVIDE WATER HEATER RECEPTACLE WITHIN 12" OF THE FINISHED CEILING. FASTEN CORD TIGHT TO THE WALL.
- PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO POINT OF DISCHARGE.
- CONCEAL WATER PIPING WITHIN THE WALL AS SHOWN. INSULATE EXPOSED AND CONCEALED WATER PIPING TO WITHIN 3" OF THE WATER HEATER.
- INSTALL "PLUMB EASY VALVE SET" EXPOSED AT THE COLD AND HOT WATER CONNECTIONS TO THE WATER HEATER AS SHOWN.
- IF THE PIPE SIZES AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTIONS SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
- PIPE PRESSURE RELIEF VALVE DISCHARGE AND FLUE CONDENSATE DRAIN TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
- PROVIDE AN EXPOSED DRIP LEG AND LINE-SIZE GAS VALVE ON THE GAS SERVICE TO THE WATER HEATER.
- CONCEAL GAS PIPING IN THE WALL AS SHOWN.
- PROVIDE 1/2" PVC PIPE FROM THE FLUE CONDENSATE CONNECTION TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
- INSTALL THE TANKLESS WATER HEATER WITH THE TOP OF THE WATER HEATER WITHIN 12" OF THE FINISHED CEILING.
- PROVIDE A 2" PVC PIPE FROM THE TANKLESS WATER HEATER TO THE POINT OF DISCHARGE. SLOPE HORIZONTAL SECTION OF THE FLUE 1/4" PER FOOT TOWARDS THE WATER HEATER.
- PROVIDE A SCREENED AIR INTAKE WITH TWO 90° ELBOWS ABOVE THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CONCEAL DRAIN LINES IN WALL PER DETAIL ON M302.
- PROVIDE COMMUNICATION CABLE CONCEALED IN WALL BETWEEN WATER HEATERS.
- IF WATER HEATERS ARE INSTALLED WITH A COMMON VENT SYSTEM THEN PROVIDE THE NAVEN COMMON VENT COLLAR KIT WITH BACKDRAFT DAMPER PER THE MANUFACTURER'S INSTALLATION MANUAL.

WATER HEATER GENERAL NOTES

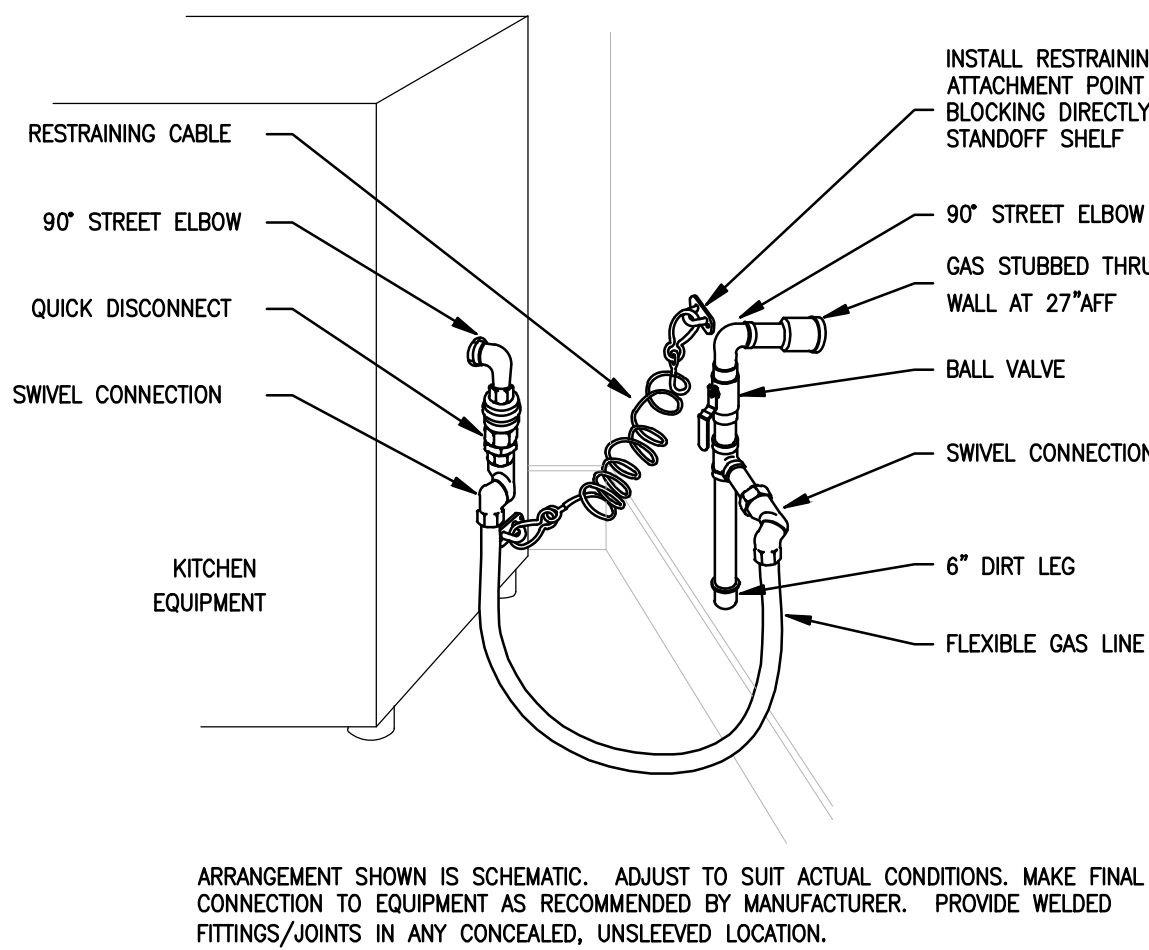
- CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE TENANT.
- INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
- MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLE MATERIALS.
- ADJUST WATER HEATER TO A SETPOINT OF 120° F.

- WATER HEATER 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 STORAGE TANK
 - LIME 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. SET DWH-1 AS MASTER AND DWH-2 AS SLAVE.

4 **DUAL TANKLESS WATER HEATER INSTALLATION DETAIL**
M303 NTS

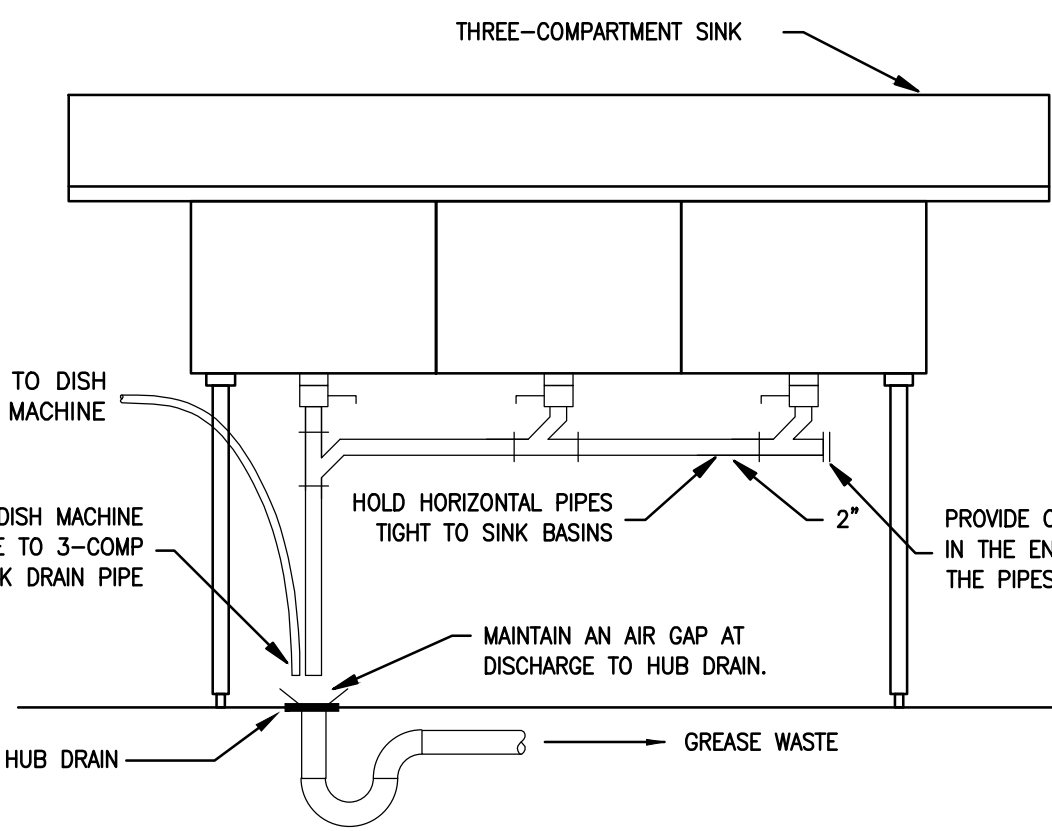


8 **RICE COOKER GAS CONNECTION DETAIL**
M303 NTS

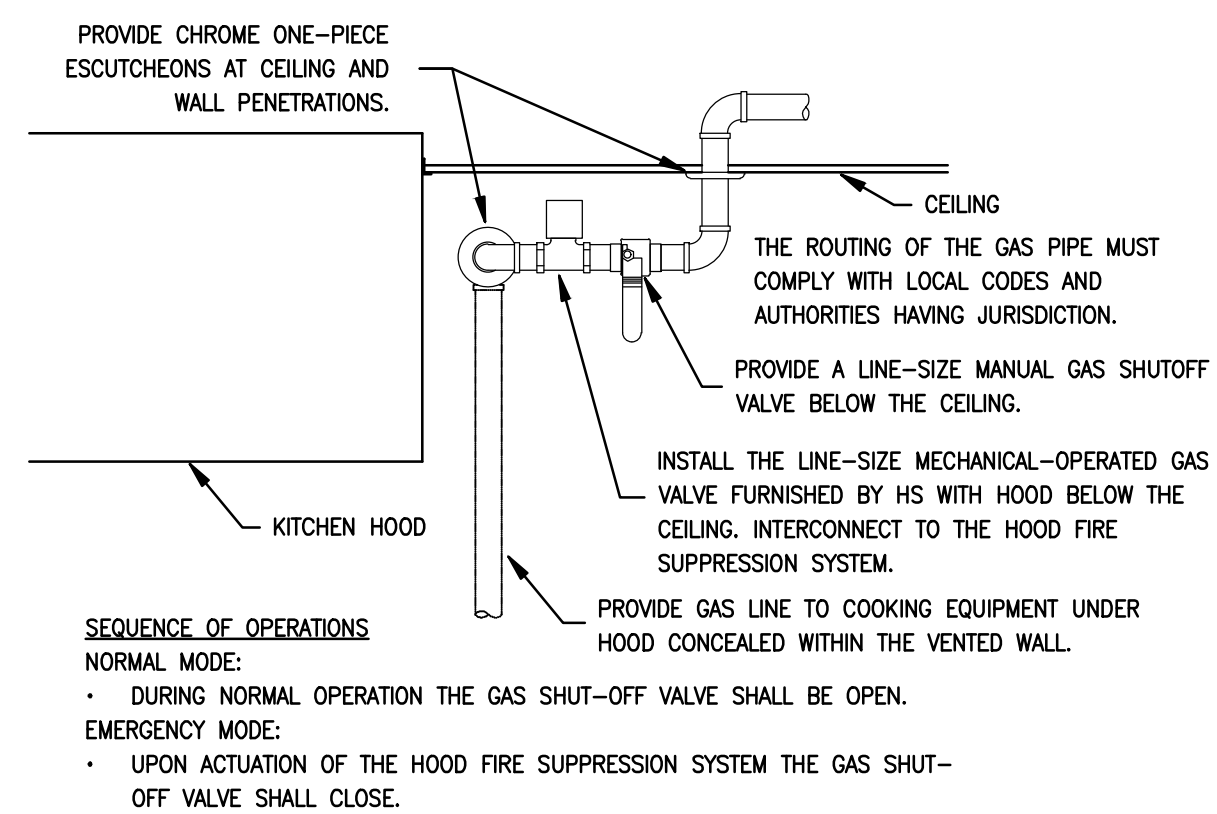


9 **KITCHEN EQUIPMENT GAS CONNECTION DETAIL**
M303 NTS

5 **WARE WASHING SINK DETAIL**
M303 NTS

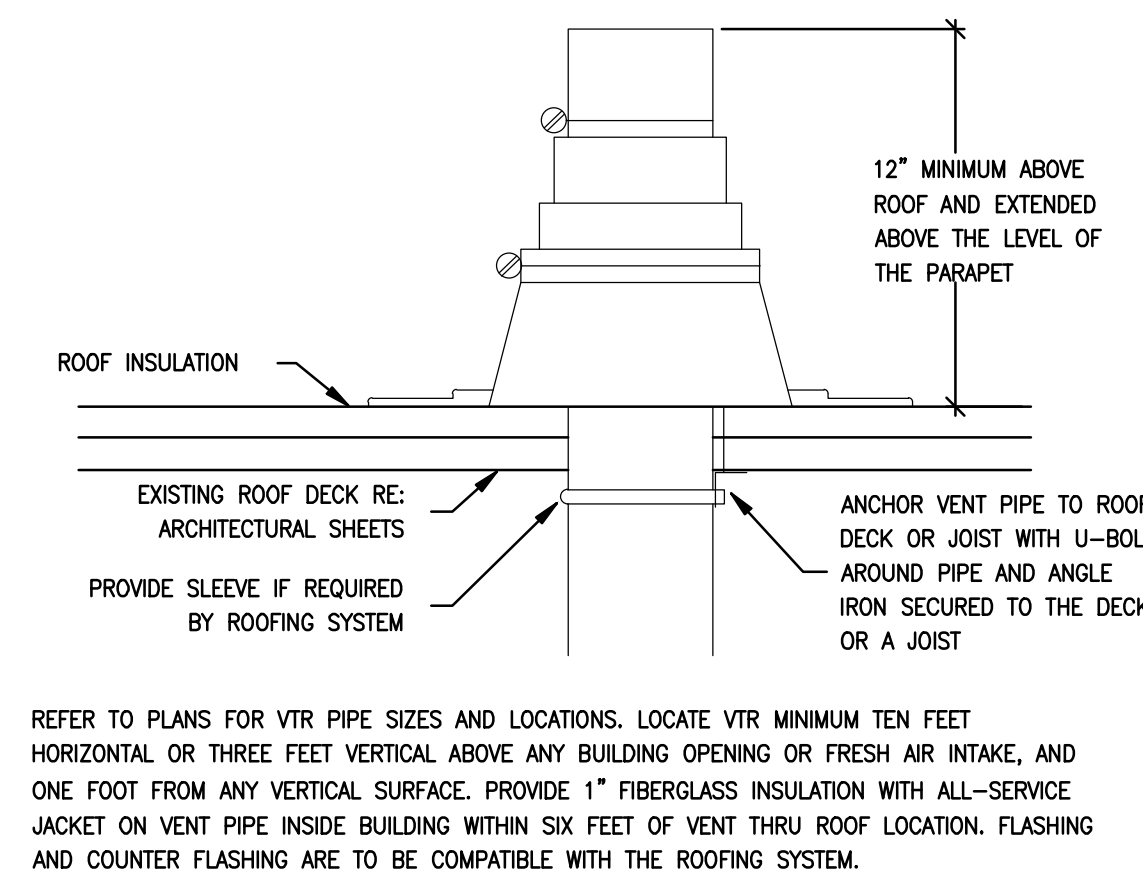


6 **KITCHEN GAS SHUTOFF DETAIL**
M303 NTS

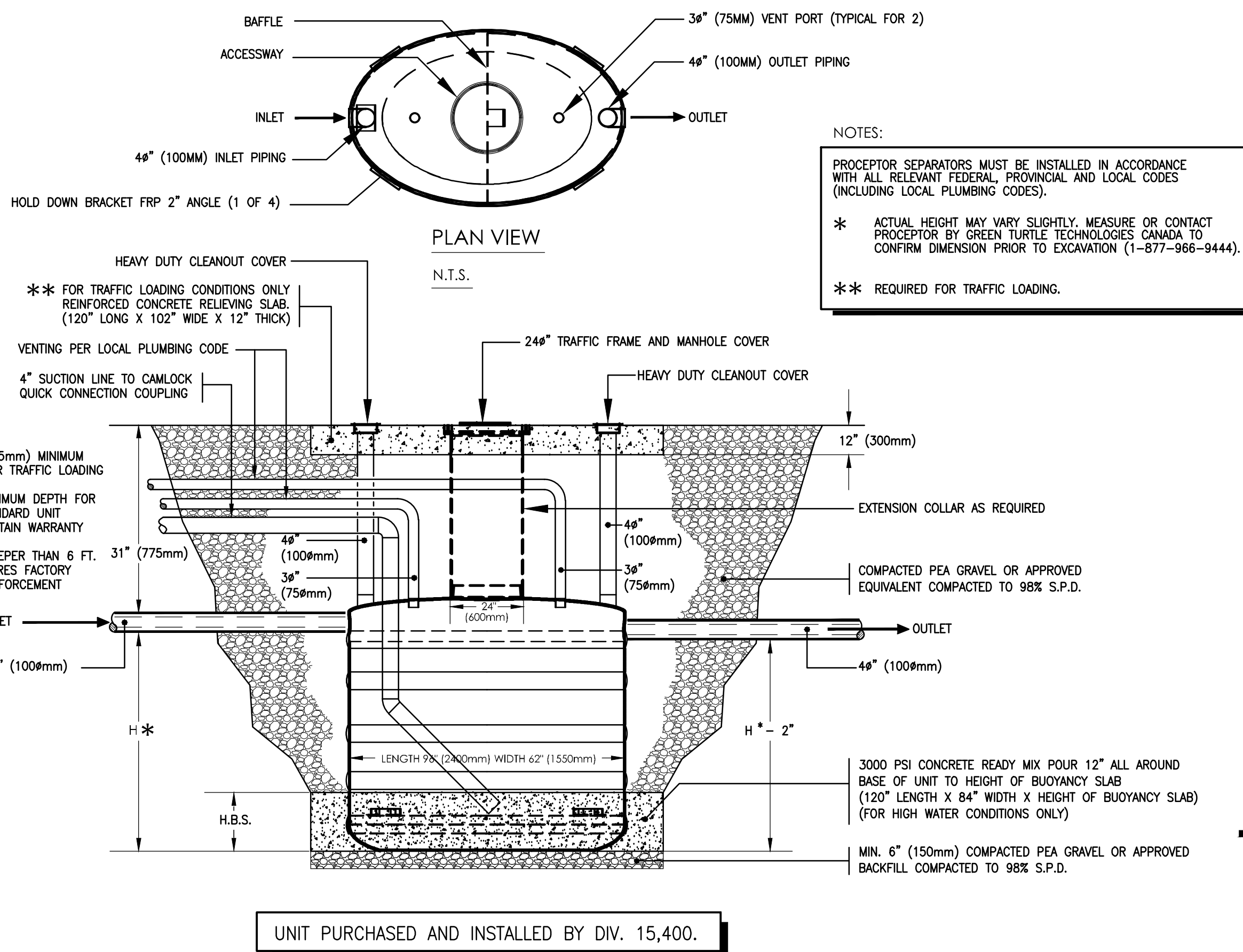


- SEQUENCE OF OPERATIONS**
- NORMAL MODE:**
- DURING NORMAL OPERATION THE GAS SHUT-OFF VALVE SHALL BE OPEN.
- EMERGENCY MODE:**
- UPON ACTUATION OF THE HOOD FIRE SUPPRESSION SYSTEM THE GAS SHUT-OFF VALVE SHALL CLOSE.

10 **VENT THROUGH ROOF DETAIL**
M303 NTS



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" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. FLASHING AND COUNTER FLASHING ARE TO BE COMPATIBLE WITH THE ROOFING SYSTEM.



UNIT PURCHASED AND INSTALLED BY DIV. 15,400.

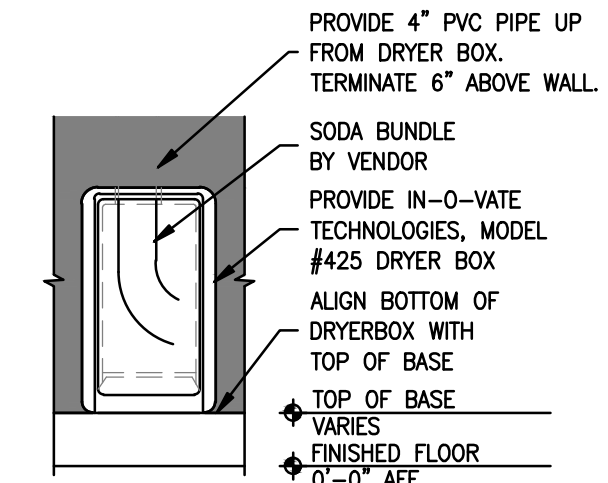
3 **GREASE INTERCEPTOR INSTALLATION DETAIL**
M303 NTS

GMC 300 INSTALLATION PROCEDURE

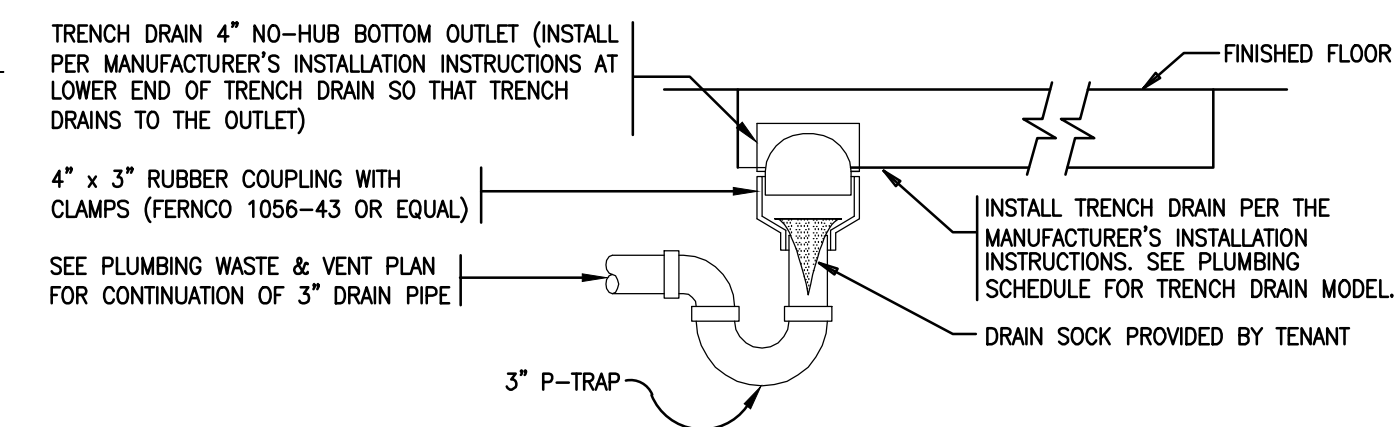
- EXCAVATE TO THE REQUIRED DEPTH, LENGTH AND WIDTH IN ACCORDANCE WITH OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) PRACTICES. PROVIDE 12" OF FREE SPACE AROUND THE UNIT AT THE BOTTOM.
- INSTALL & LEVEL 6" LAYER OF PEA GRAVEL OR APPROVED EQUIVALENT BACKFILL COMPACTED TO 98% S.P.D. (STANDARD PROCTOR DENSITY).
- FOR INSTALLATIONS WHERE THE SUBSURFACE WATER LEVEL MAY RISE ABOVE THE BOTTOM OF THE TANK AT ANYTIME, CONTINUE TO STEP 4. OTHERWISE, INSTALL AND LEVEL TANK AND GO TO STEP 9.
- IF USING APPROVED BACKFILL MATERIAL INSTEAD OF PEA GRAVEL, INSTALL GEOTEXTILE FILTER FABRIC TO PREVENT MIGRATION AND COMPACT BACKFILL IN 6" TO 8" LAYERS TO 98% S.P.D.
- INSTALL AND LEVEL TANK.
- FILL THE SEPARATOR WITH WATER UP TO THE REQUIRED HEIGHT OF THE BUOYANCY SLAB (HBS)-REFER TO TABLE BELOW.
- POUR CONCRETE READY MIX ANTI-BUOYANCY SLAB 12" ALL AROUND THE SEPARATOR CELLS TO THE REQUIRED HEIGHT OF BUOYANCY SLAB (HBS). REFER TO TABLE BELOW.
- FILL SEPARATOR WITH WATER UP TO THE INLET/OUTLET PIPES.
- BACKFILL UP TO THE INLET/OUTLET PIPES WITH COMPACTED PEA GRAVEL OR APPROVED EQUIVALENT IN 6" TO 8" LAYERS. COMPACT BACKFILL TO 98% S.P.D.
- CONNECT THE INLET, OUTLET AND VENT PIPING TWO VENT PORTS SUPPLIED USE ONE AND CAP OTHER FOR EASE OF INSTALLATION. VENT PIPING PER LOCAL PLUMBING CODE.
- INSTALL EXTENSION COLLAR, USE FIBERGLASS SIKAFLEX CAULKING FOR WATER TIGHT SEAL IF DESIRED. INSTALL CLEANOUT EXTENSIONS.
- BACKFILL WITH COMPACTED PEA GRAVEL, COARSE SAND OR APPROVED EQUIVALENT TO MINIMUM 6" ABOVE THE BASE OF THE EXTENSION COLLAR FOR TRAFFIC LOADING SLAB, FOR TRAFFIC CONDITIONS OR SURFACE COVER OR PAVEMENT SUBSURFACE COMPACT BACKFILL TO 98% S.P.D.
- INSTALL COVERS
- FOR TRAFFIC LOADING CONDITIONS ONLY, POUR REINFORCED BEARING SLAB AT SURFACE GRADE. FOR TRAFFIC LOADING CONSULT WITH STRUCTURAL ENGINEER.
- U.S. PATENT # 5, 746, 912, CON. PATENT # 2, 195, 822.

PROCEPTOR MODEL	INLET INVERT TO TANK BOTTOM (H")	WEIGHT OF BUOYANCY SLAB (LBS)	DRY WEIGHT OF TANK
GMC 50	12" (300mm)	857	130 LBS
GMC 100	20" (500mm)	1246	150 LBS
GMC 150	28" (700mm)	1682	175 LBS
GMC 200	36" (900mm)	2036	205 LBS
GMC 300	52" (1300mm)	2780	255 LBS

7 **SODA TERMINATION DETAIL**
M303 NTS

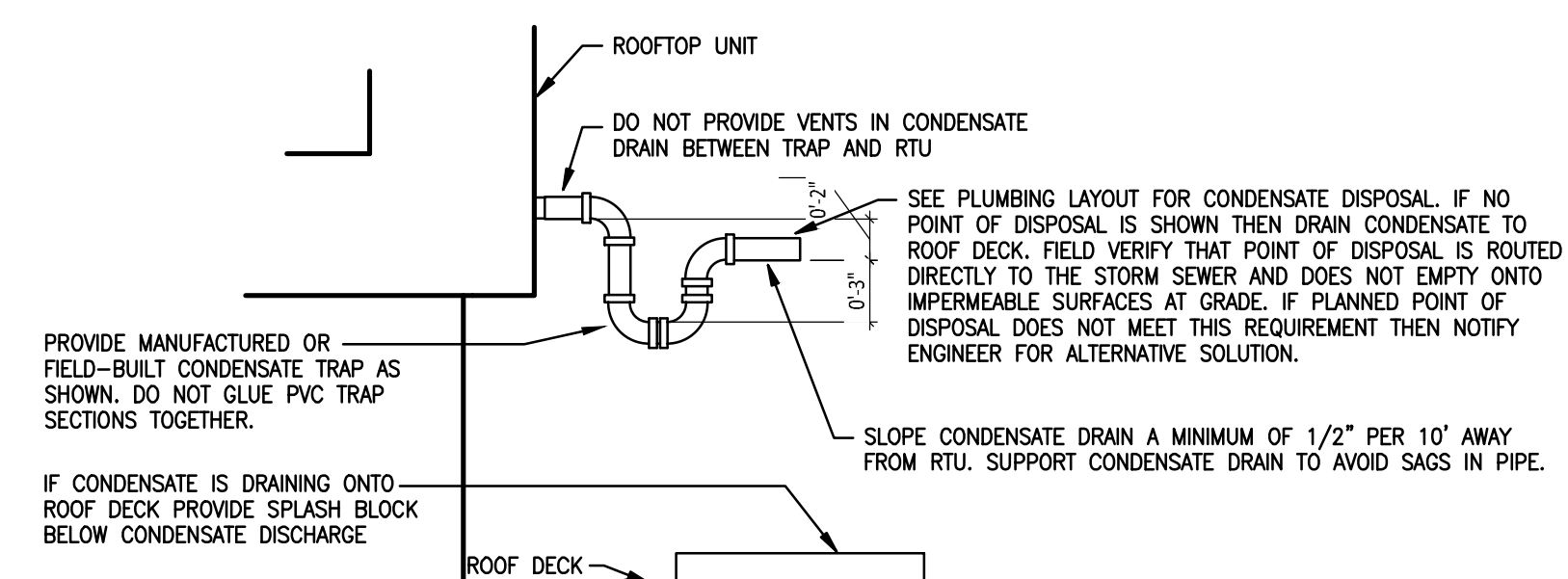


11 **TRENCH DRAIN DETAIL**
M303 NTS



PROVIDE MANUFACTURED OR FIELD-BUILT CONDENSATE TRAP AS SHOWN. DO NOT GLUE PVC TRAP SECTIONS TOGETHER.

12 **RTU CONDENSATE TRAP DETAIL**
M303 NTS



Consultant:



SNC-LAVALIN PROJECT # 2022-692312

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TORONTO, ON., M4G 3T7

DESIGN BULLETIN: DB-04/2022

NO.	DATE	ISSUED FOR	BY
1	2023-01-06	ISSUED FOR ILL REVIEW	KL
2	2023-01-18	ISSUED FOR PERMIT/TENDER	KL
3	2023-03-31	ISSUED FOR CONSTRUCTION	KL

Drawn: _____ Checked: _____

KL AJG

Project No. _____ SCALE: _____

22129 N.T.S.

Contents:
MECHANICAL
DETAILS

M303

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#5747954

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	DIAM				CFM	VEL	SP	END
1		5424 ND-2-ACPSP-F	CAPTIVEAIRE	14' 3"	600 DEG	I	HEAVY	225	3200	10"	15"	4"	1600	1536	-0.854"	2500	798	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

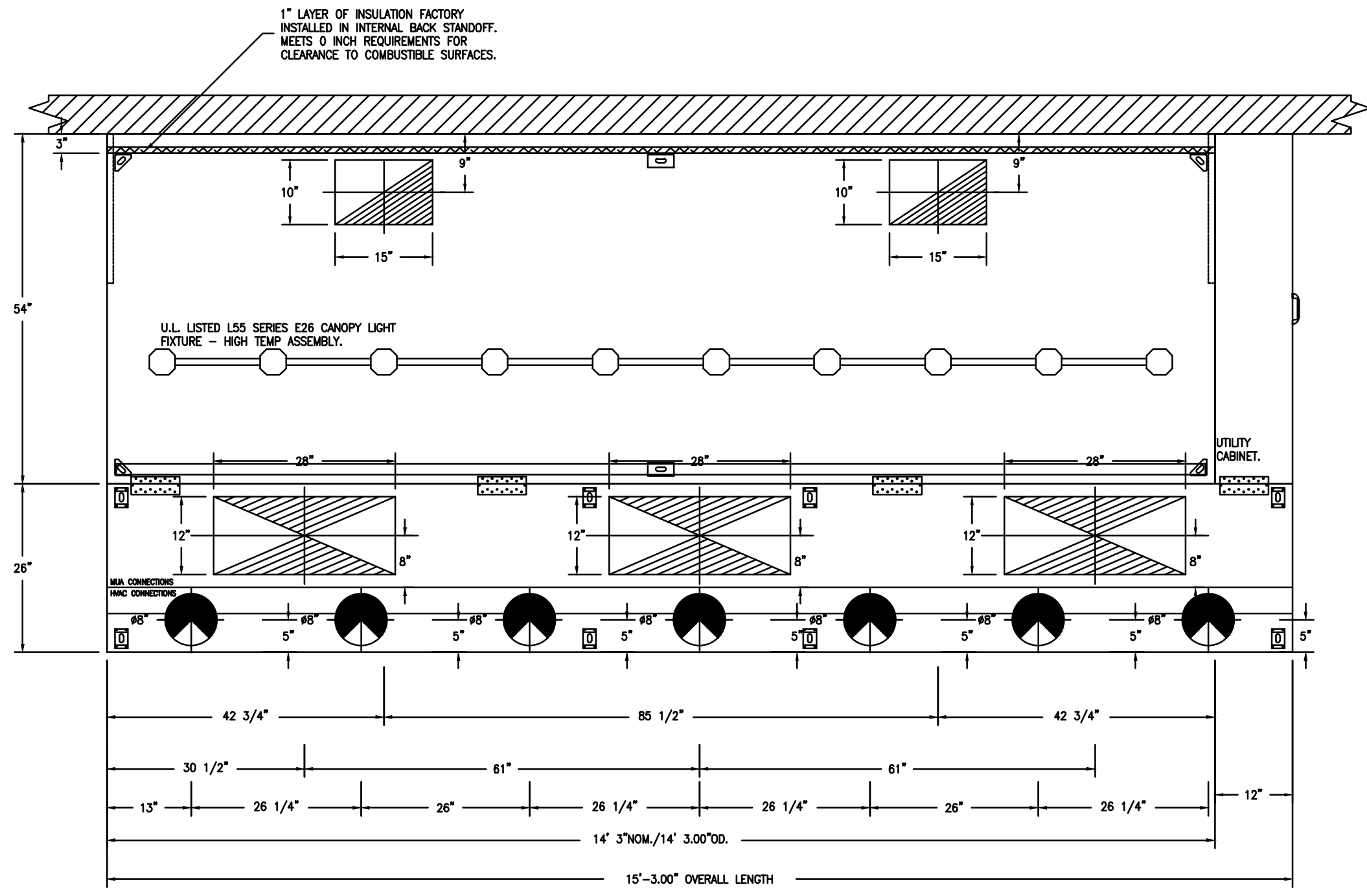
HOOD NO	TAG	TYPE	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	ELECTRICAL MODEL #			SWITCHES QUANTITY
1		CAPTIVATE SOLO FILTER	10	16"	16"	85% SEE FILTER SPEC	10	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	1289 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00" 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. RISER SENSOR INSTALL 6IN PLEN. FULL DIMENSION HANGING BRACKET - FRONT.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	RISER(S)				
						TYPE	WIDTH	LENG	DIAM	CFM
1		Front	183"	26"	6"	MUA	12"	28"	833	0.222"
						MUA	12"	28"	833	0.222"
						AC	12"	28"	833	0.222"
						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

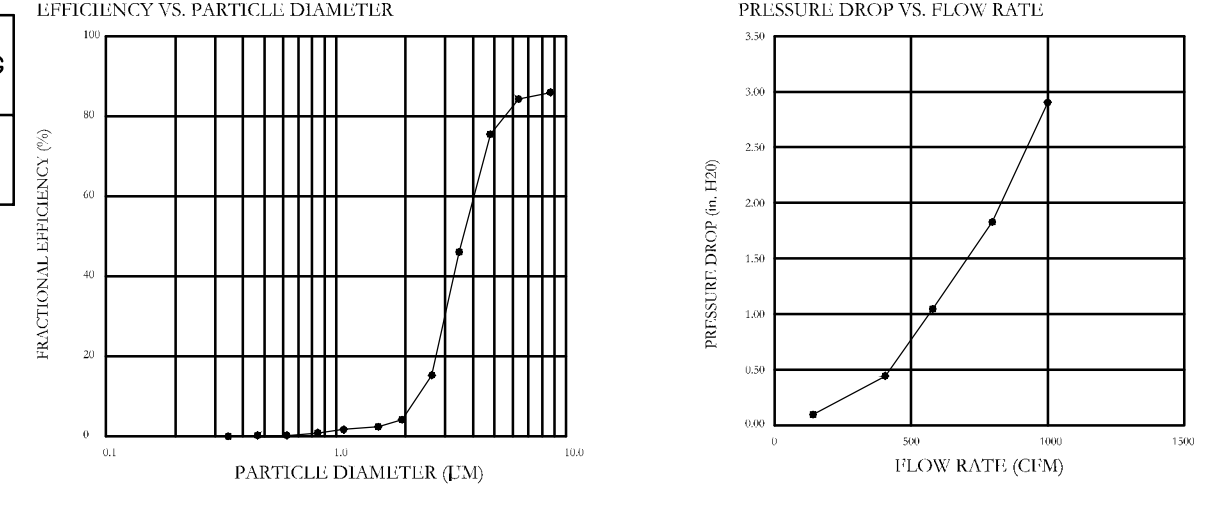
SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO 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.

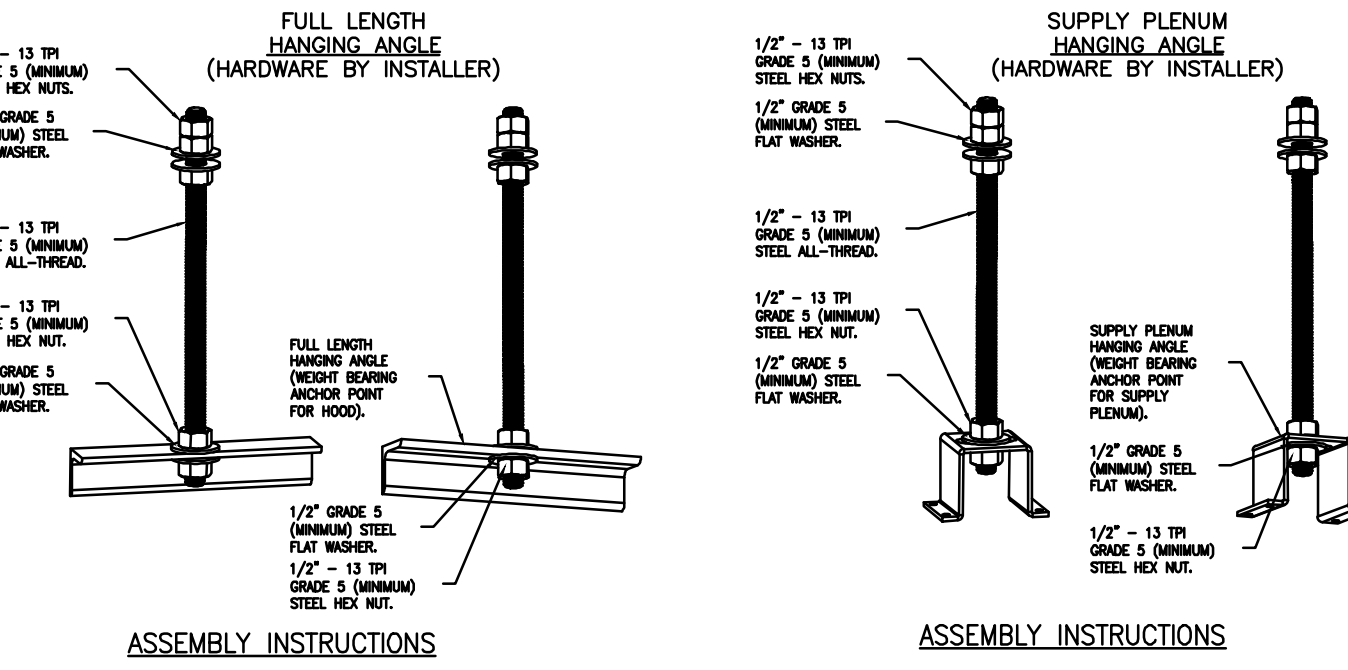
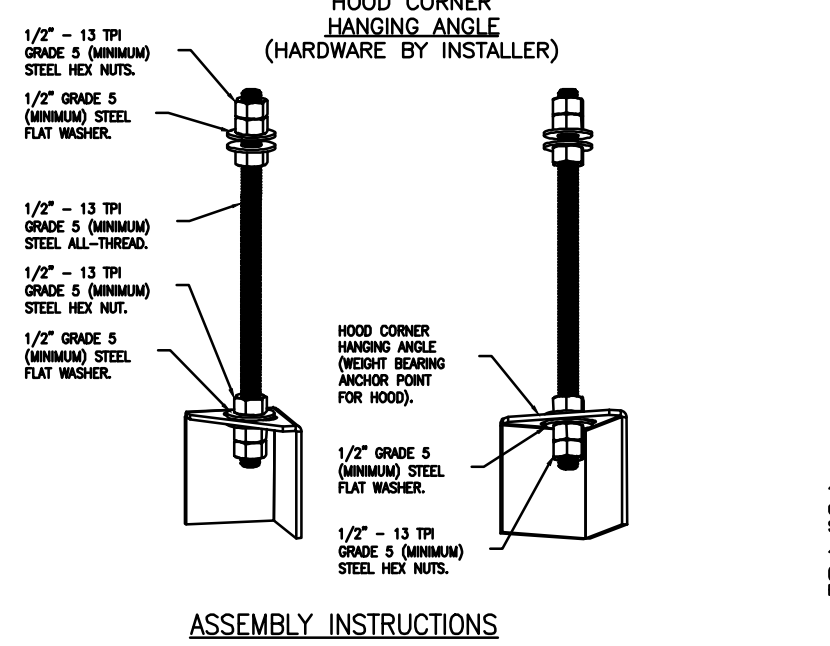
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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 SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.



CAPTIVATE FILTERS ARE BUILT IN COMPLIANCE WITH:



KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE
Highwoods Group
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CHIPOTLE LEASIDE #4733
101 LAIRD DRIVE,
TORONTO, ON, M4G 3T7

DATE: 2/17/2023
DWG.#: 5747954
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
1

Consultant:

SNC-LAVALIN
Engineering Services
Canada
235 LeMill Road
Toronto, Ontario
Canada M3B 2V1
Tel: 416-445-8255
SNC-LAVALIN PROJECT # 2022-692312

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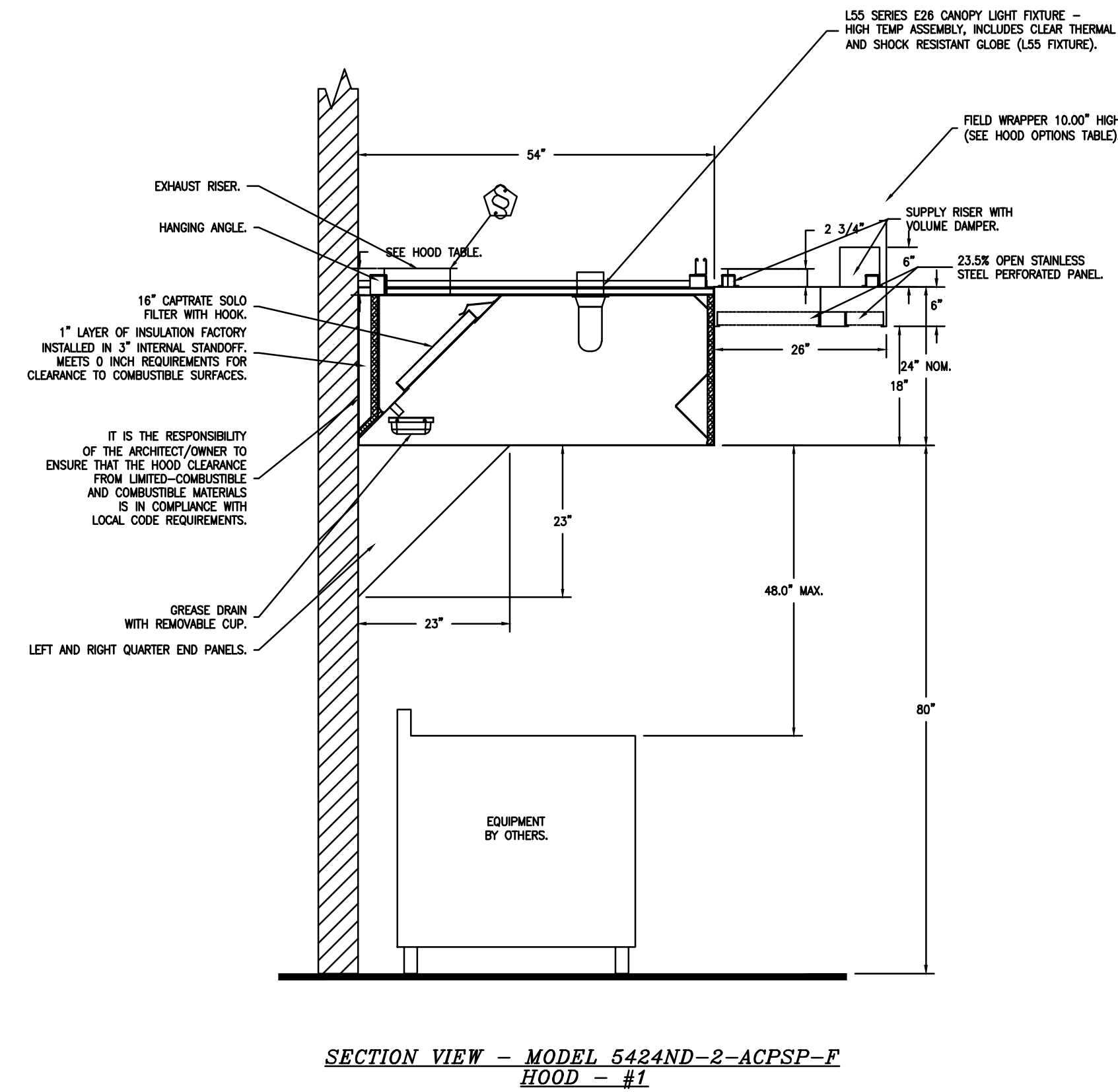
STORE NO.: 52-4733
LEASIDE
101 LAIRD DRIVE,
TORONTO, ON, M4G 3T7

DESIGN BULLETIN: DB-04/2022

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4	2023-03-31	ISSUED FOR CONSTRUCTION	KL

Drawn: KL Checked: AJG
Project No: 22129 SCALE: N.T.S.

Contents:
KITCHEN EXHAUST SYSTEM DETAILS



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

FIRE SYSTEM INFORMATION - JOB#5747954

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	36	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.500	CAPTWARE SYSTEMS

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, GAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF GAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, GAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

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Drawn: KL Checked: AJG

Project No. 22129 SCALE: N.T.S.

Contents:
KITCHEN EXHAUST
SYSTEM DETAILS

M305

EXHAUST FAN INFORMATION - JOB#5747954

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DU240HFA	CAPTIVEAIRE	3200	1.500	858	TEFC,PREMIUM	3.000	1.6910	3	575	3.5	727 FPM	348	14.3

MUA FAN INFORMATION - JOB#5747954

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCF	WEIGHT (LBS)	SONES
2	MAU-1	1	A2-D.250-20D	20MF-2-MOD	A2-D.250	2000	2500	0.500	1109	ODP,PREMIUM	2.000	0.7050	3	575	2.1	3.1A	15A	662	8.3

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(%)
2	MAU-1	294960	271363	110F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
2	MAU-1	1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY
		1	SIZE 2 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE)
		1	SHIP LOOSE GAS STRAINER 1"
		1	UPSTREAM PILOT FOR SIZES 1-3
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	LOAD REACTOR MOUNTED IN FAN
		1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE - USED ON HEATERS UNDER 2500 CFM
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
1	2 YEAR PARTS WARRANTY		

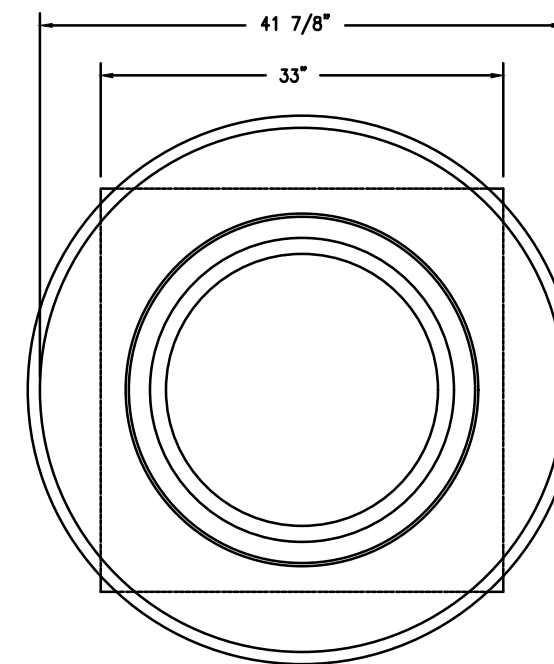
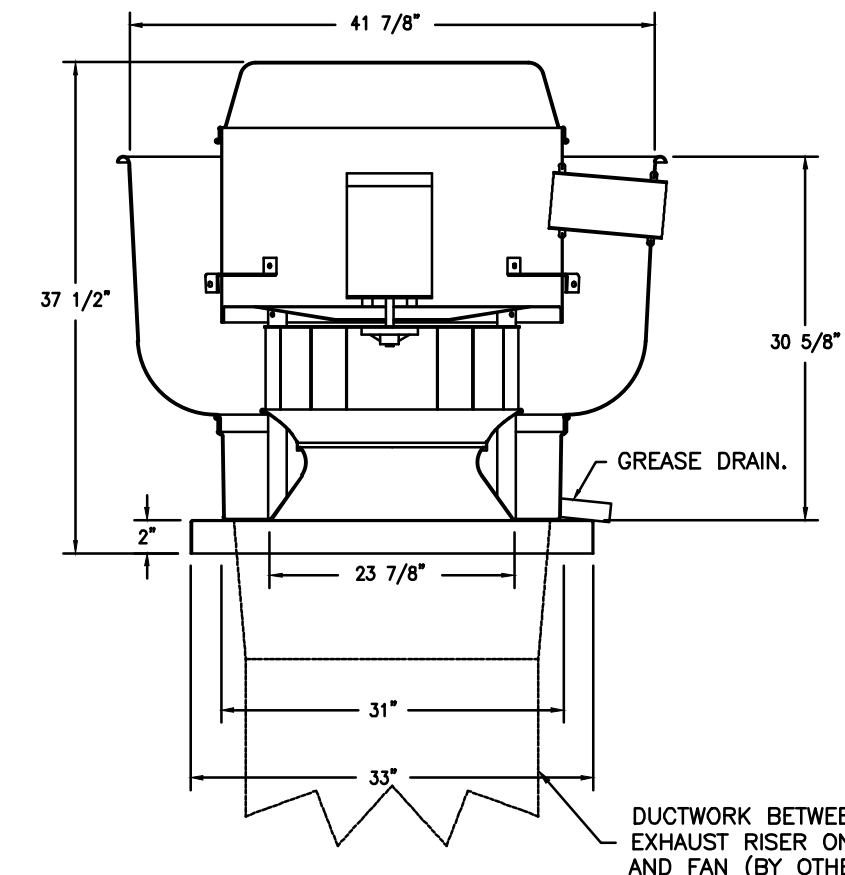
FAN ACCESSORIES

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	MAU-1						YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	43 LBS	CURB	31.500"W X 31.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED.
2	# 2	MAU-1	80 LBS	CURB	31.000"W X 79.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.

FAN #1 DU240HFA - EXHAUST FAN (EF-1)



TOP VIEW

FEATURES:

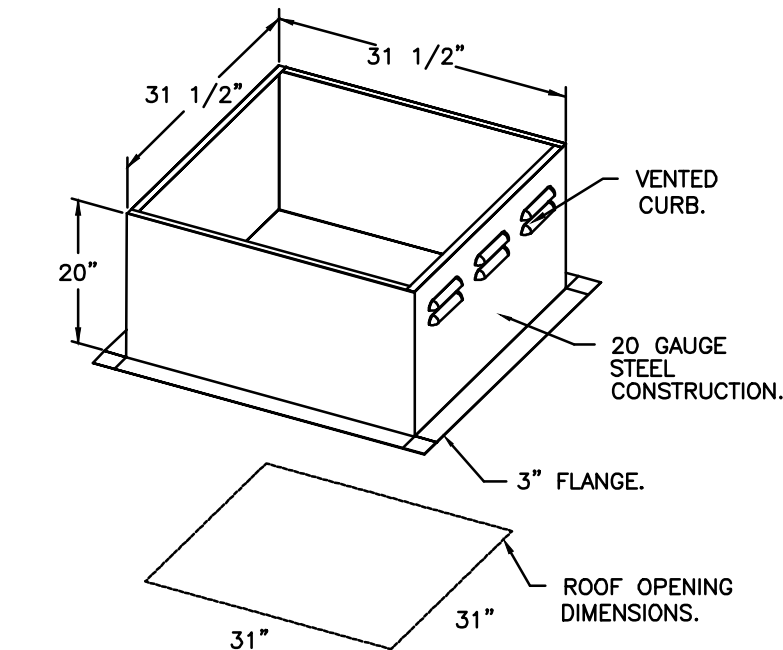
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL782 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT 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.
- LOAD REACTOR MOUNTED IN FAN.
- 2 YEAR PARTS WARRANTY.



REVISIONS	
DESCRIPTION	DATE

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CHIPOTLE LEASIDE #4733
101 LAIRD DRIVE,
TORONTO, ON, M4G 3T7

DATE: 2/17/2023
DWG.#: 5747954
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 3

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

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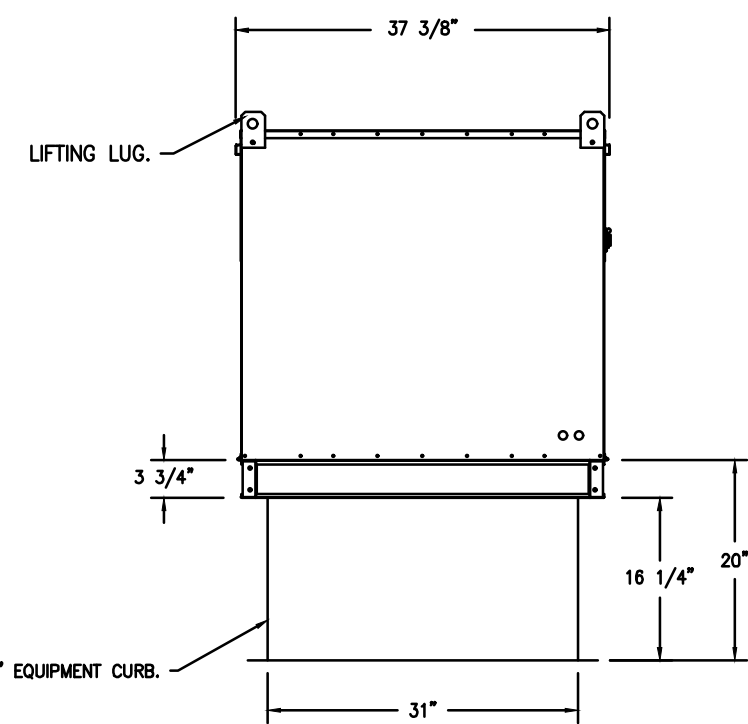
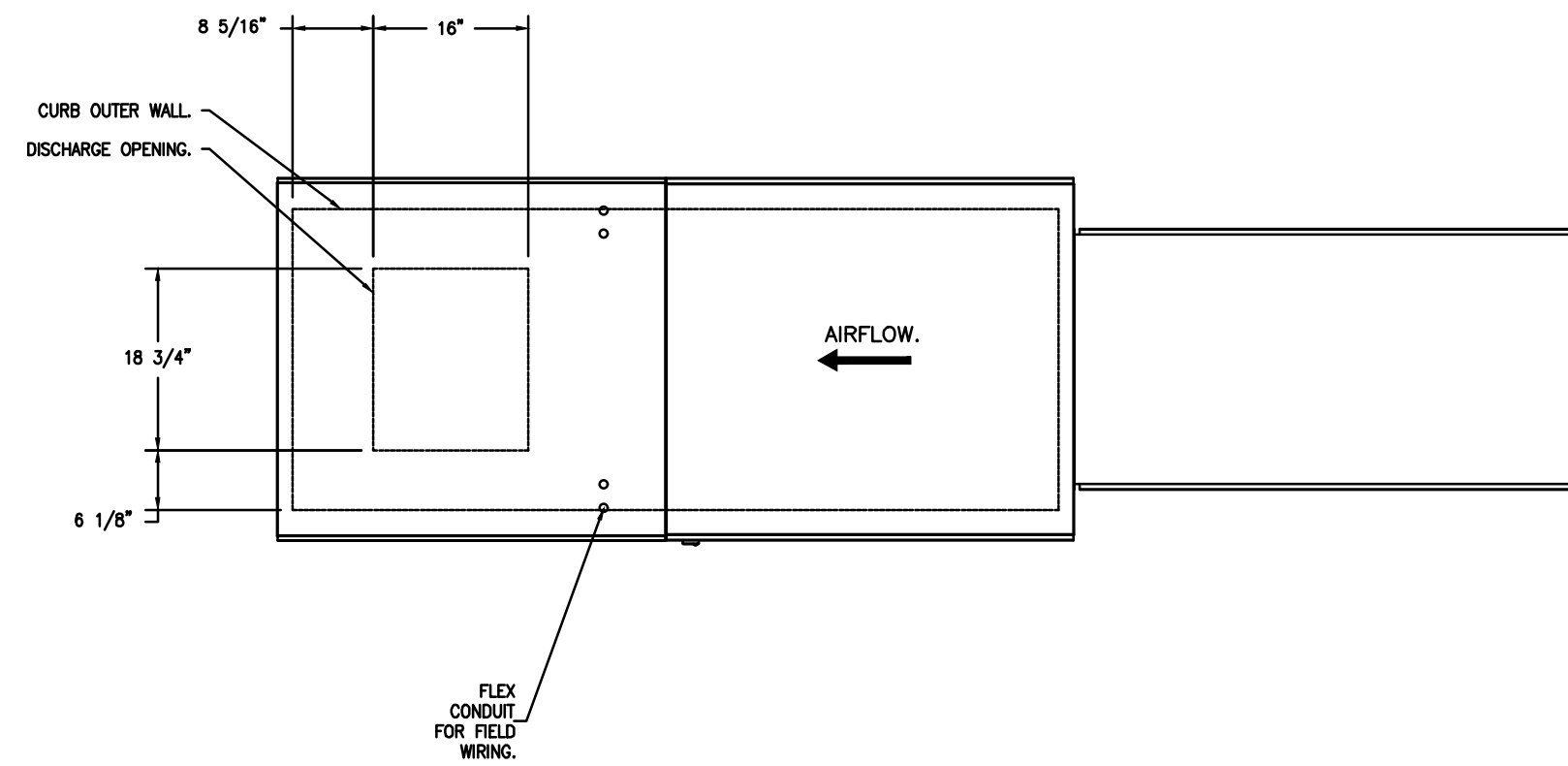
Contents: KITCHEN EXHAUST SYSTEM DETAILS

- FAN #2 A2-0.250-200 - HEATER (MAU-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN.
 2. INAKE HOOD WITH EZ FILTERS.
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
 4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 2 DIRECT DRIVE AHUS.
 5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
 6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
 7. BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE).
 8. SHIP LOOSE GAS STRAINER, TO BE INSTALLED UPSTREAM OF UNIT CONNECTION, 1" CONNECTION.
 9. PILOT LOCATED UPSTREAM OF FIRST REDUNDANT SOLENOID VALVE OF SIZE 1-3 MAX GAS PRESSURE OF 14" WC.
 10. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LF120S ACTUATOR INCLUDED.
 11. MOUNT LEAD REACTOR IN FAN.
 12. PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
 13. UNIT MOUNTED VFD FOR USE WITH EOPM03.
 14. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
 15. 2 YEAR PARTS WARRANTY.

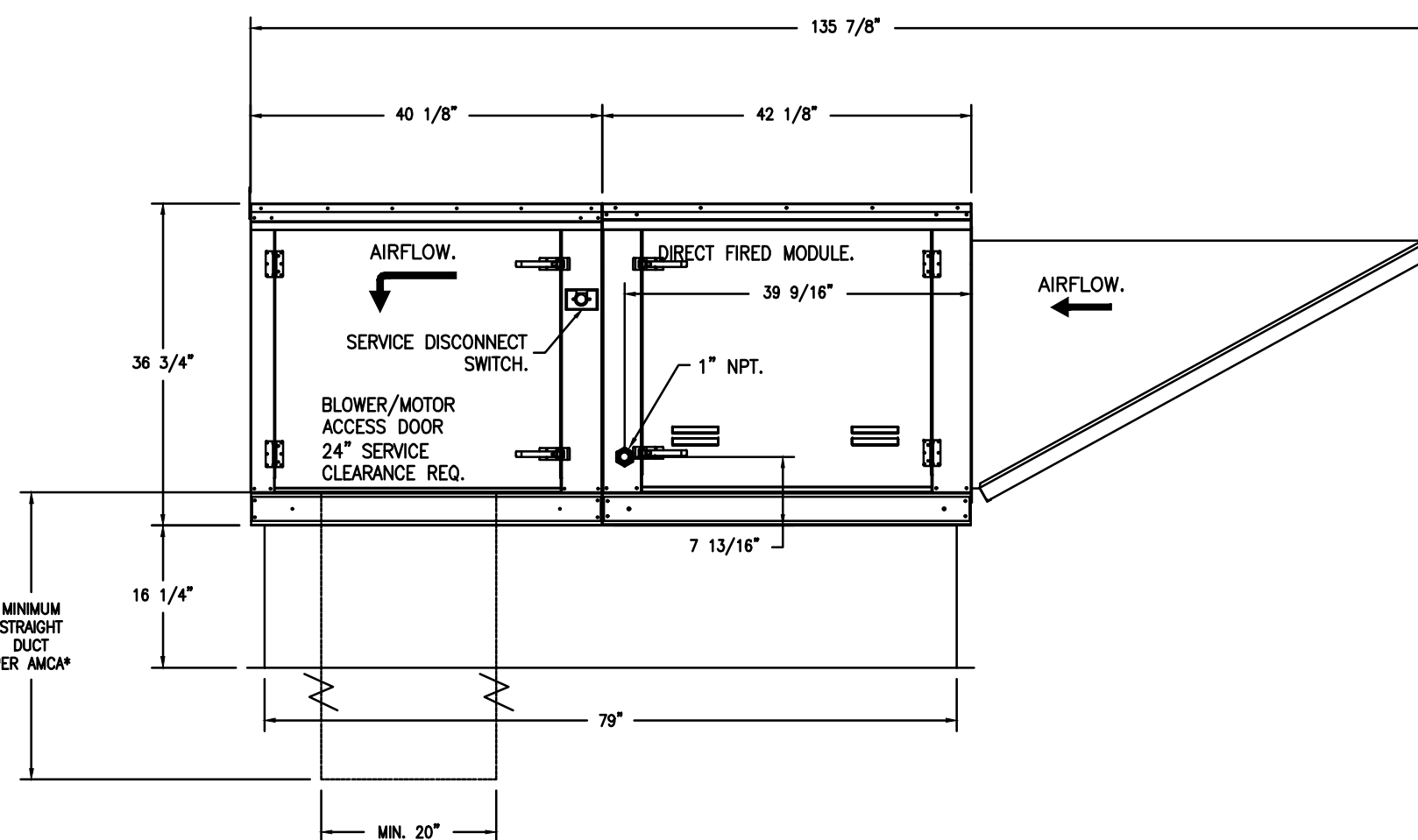
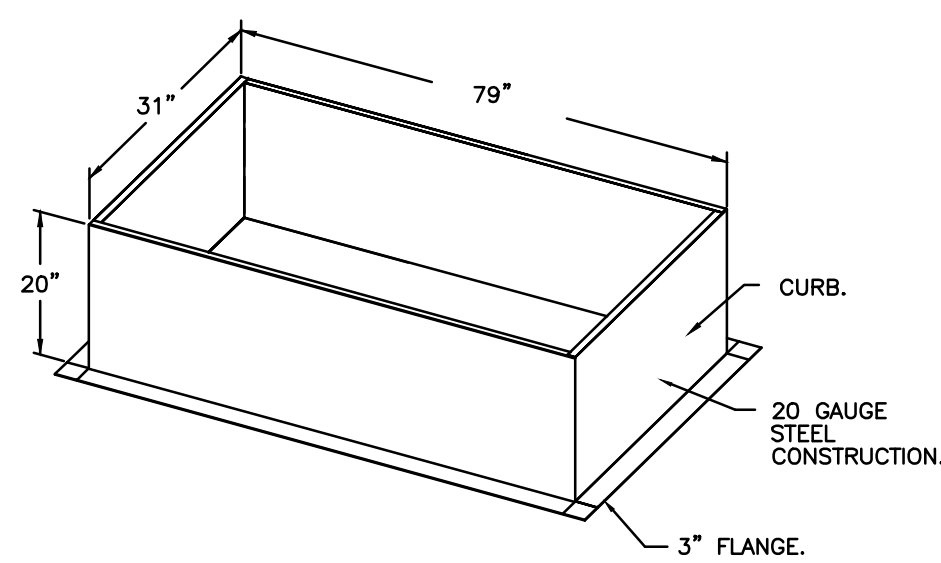
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE 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 20" X 20".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 1°F. TEMP. RISE = 110°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTU@ AT ALTITUDE OF 0.0 FT. = 275280.
INPUT BTU@ AT ALTITUDE OF 0.0 FT. = 299196.
OUTPUT BTU@ AT ALTITUDE OF 394 FT. = 271363.
INPUT BTU@ AT ALTITUDE OF 394 FT. = 294960.



ROOF OPENING 2" SMALLER THAN CURB DIMENSION.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6292328D), 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 (I.E., MAXIMUM OF SPIN OF CARBON MONOXIDE (CO) AND CLIPPER OF NITROUS OXIDE (NOX)). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BURNER 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 STRIUM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM WITH THE FEATURE. ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.
CONSTRUCTION:
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNITS ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS AND Z31.4 AND CSA 3.7 (NON-RECIRCULATING OF HEATERS) AND AISE Z31.6 (RECIRCULATING OF HEATERS).
GENERAL CONSTRUCTION:
 -PROFILE PLATES SHALL VARY IN SIZE PER LINE.
 -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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DWG.#:
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DRAWN BY:
JMB-40

SCALE:
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MASTER DRAWING

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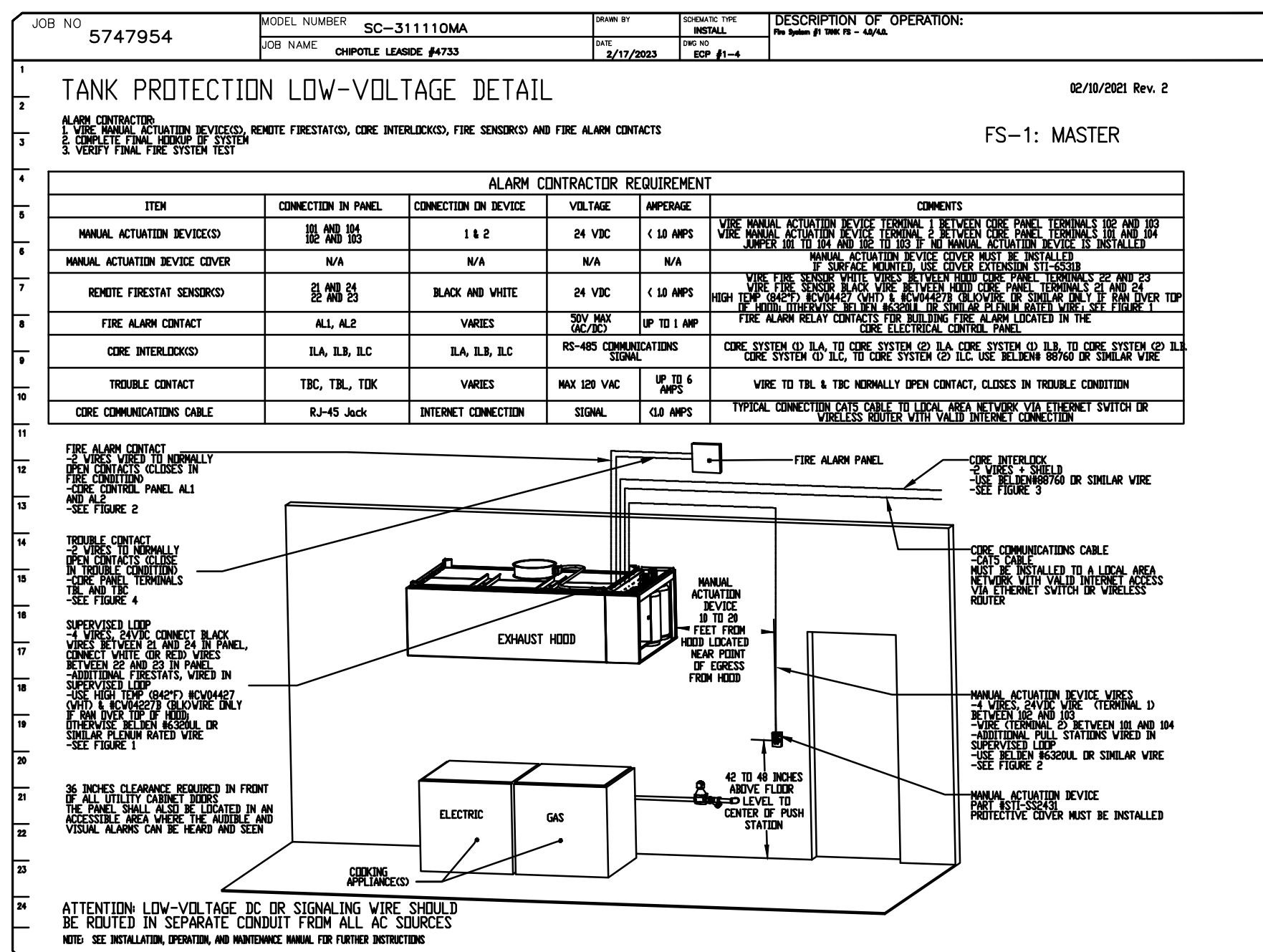
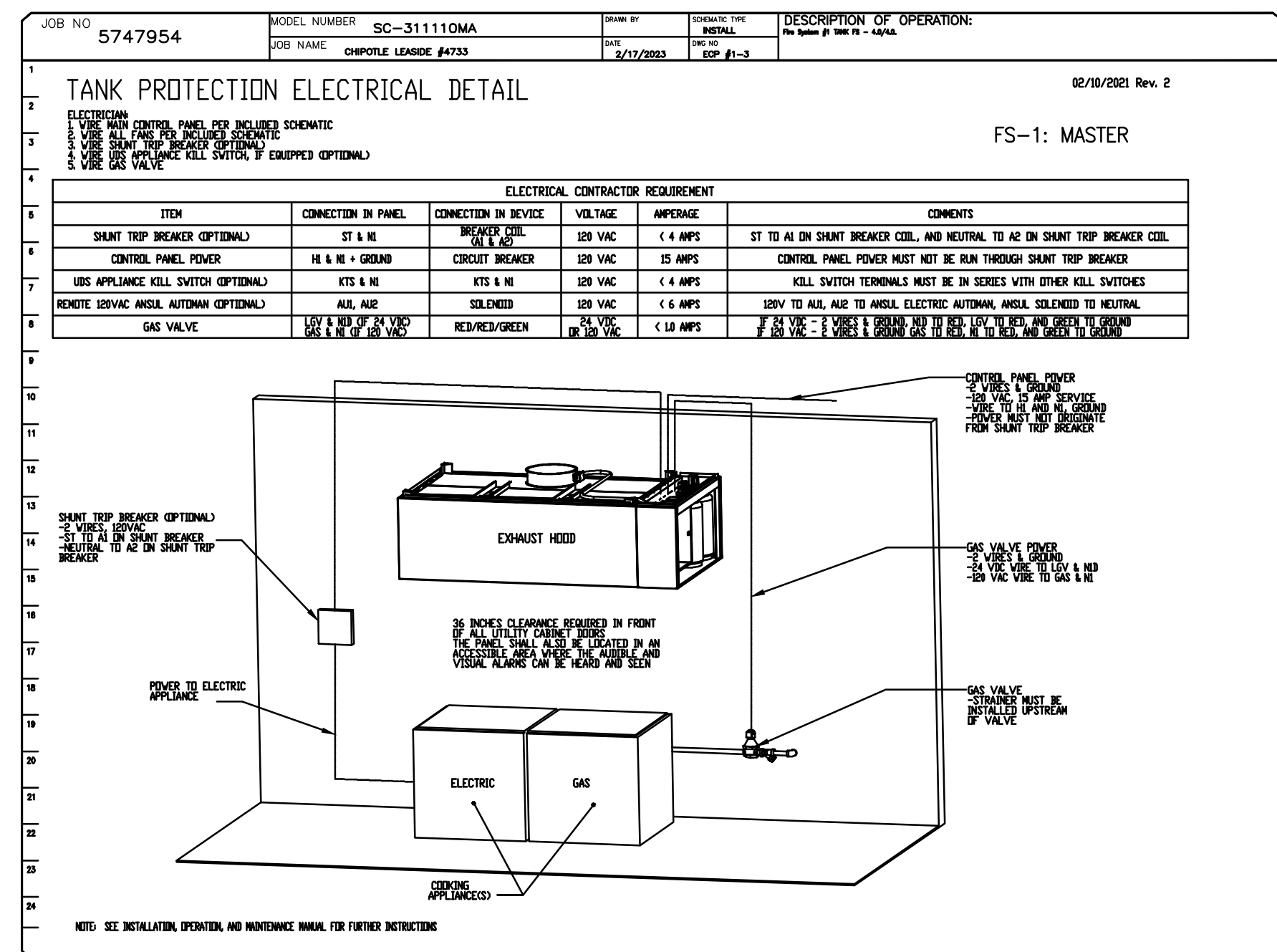
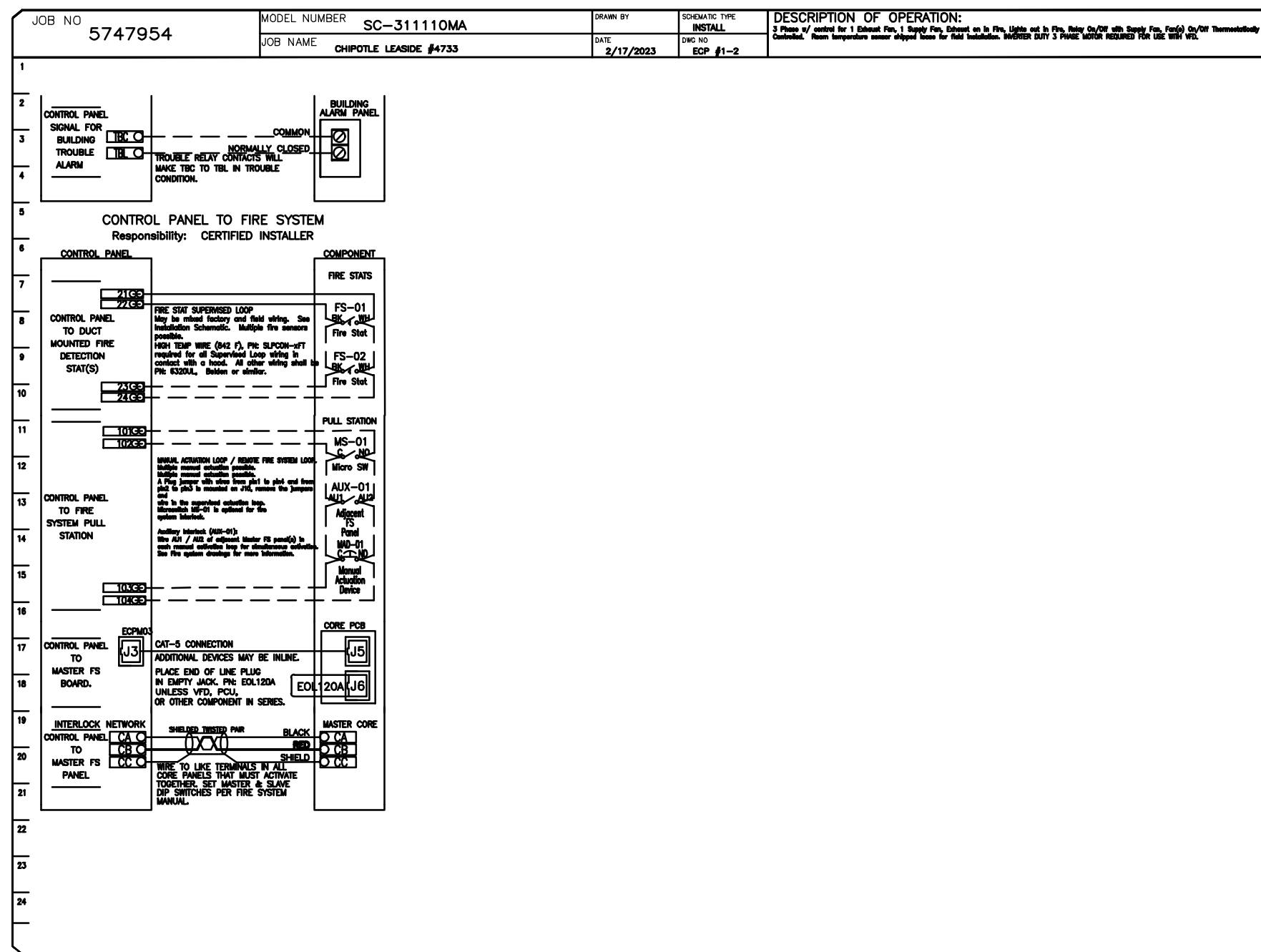
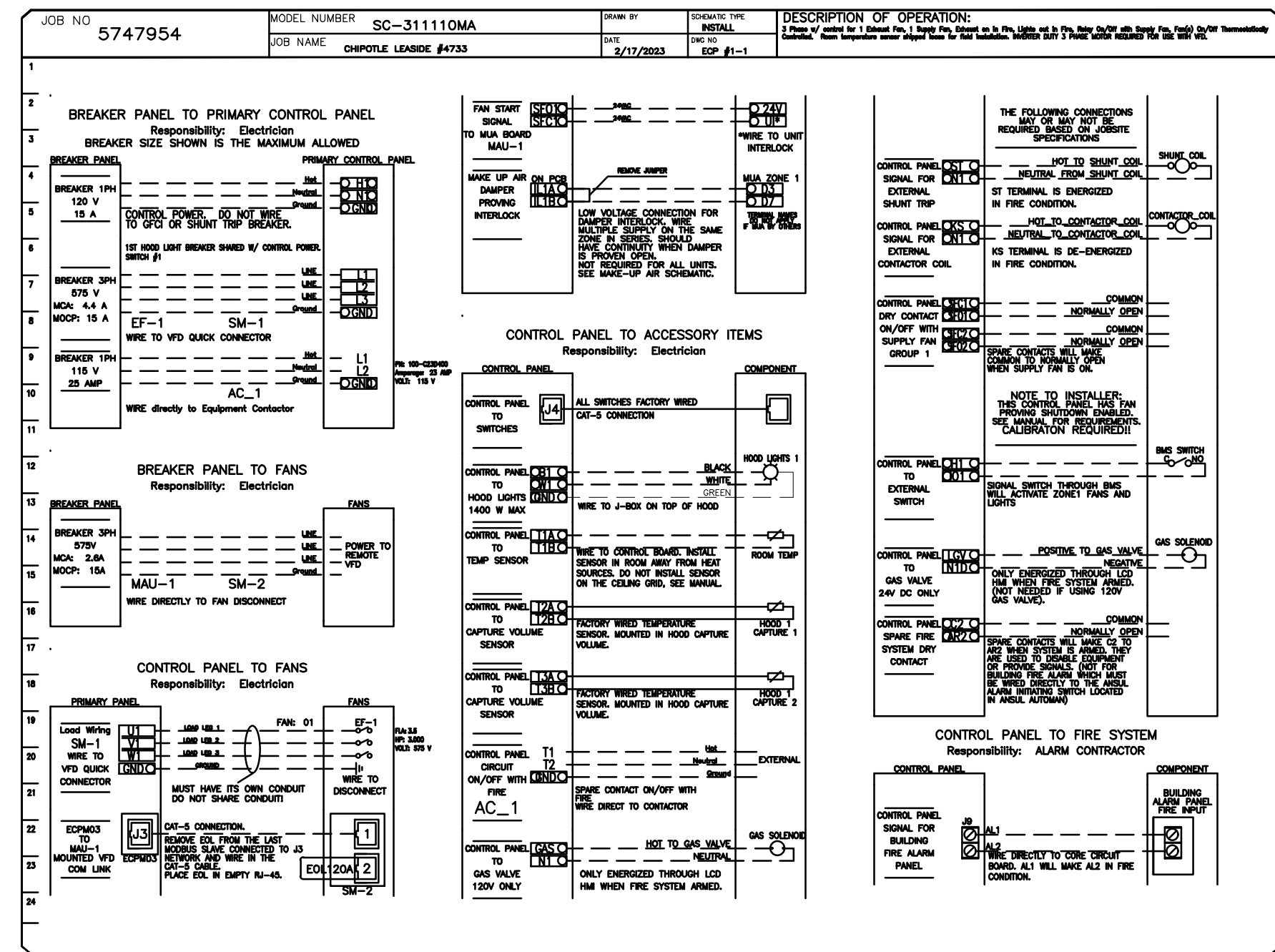
Project No. 22129 SCALE: N.T.S.

Contents:
KITCHEN EXHAUST SYSTEM DETAILS

M307

ELECTRICAL PACKAGE - JOB#5747954

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	575	3.5



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KITCHEN EXHAUST SYSTEM DETAILS

DOAS/RTU FAN SCHEDULE - JOB#5863376

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	ELECTRICAL INFORMATION										COOLING INFORMATION					REHEAT INFORMATION				GAS HEAT INFORMATION				NOTES							
					BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOC	DB	WB	DB	WB	DP	TOTAL	SENS.	IEER	ISMRE	DB	WB	DESIRED		MAX	REMOVAL RATE	GAS TYPE	INPUT BTU/h	OUTPUT BTU/h	TEMP RISE	REQUIRED INPUT GAS PRESSURE
1	1200 CFM MUA	1	CASRTU1-1150-13-5T	CAPITVEAIRE	13P-1	0	1200	1200	1421	0.500	1.00	3	575	11.3A	15A	80.5°F	73.9°F	58.8°F	57.6°F	56.9°F	66.0 MBH	27.8 MBH	17.9	6.1	70.0°F	61.8°F	14.8 MBH	53 MBH	34.6 LBS/HR	NATURAL	130389	105615	72°F	7 IN. W.C. - 14 IN. W.C.	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

NOTES:

- INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
- DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
- INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
- REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
- EC MOTOR CONDENSING FANS
- ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
- SUCTION LINE ACCUMULATOR
- FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
- AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
- 81% EFFICIENT FURNACE WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE: 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
- SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
- FULLY MODULATING HOT GAS REHEAT
- HAL GUARD FOR CONDENSING COIL
- 1" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-4.3 INSULATION-MINIMUM 24GA EXTERIOR W/ 18GA BASE
- DOWN DISCHARGE/NO RETURN

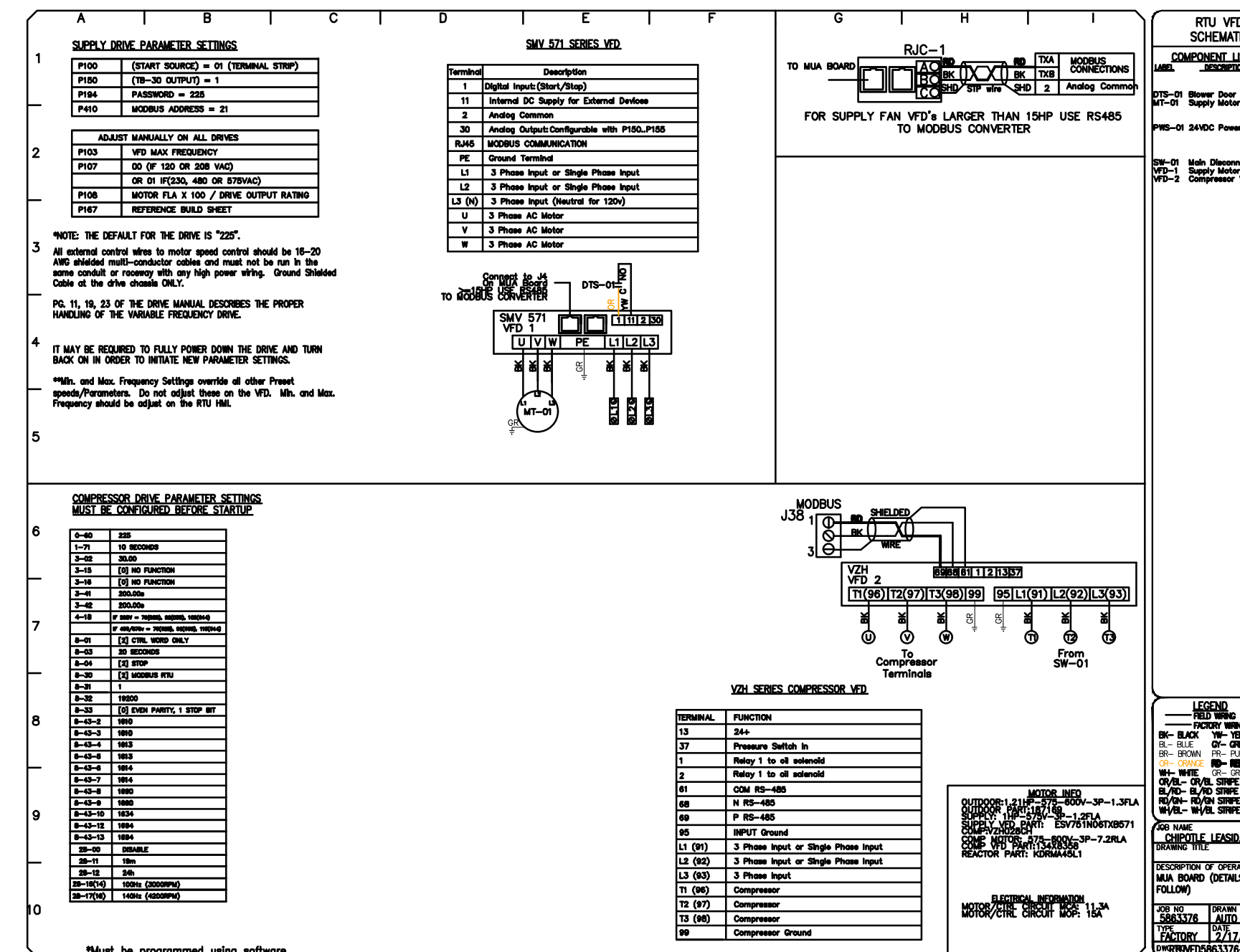
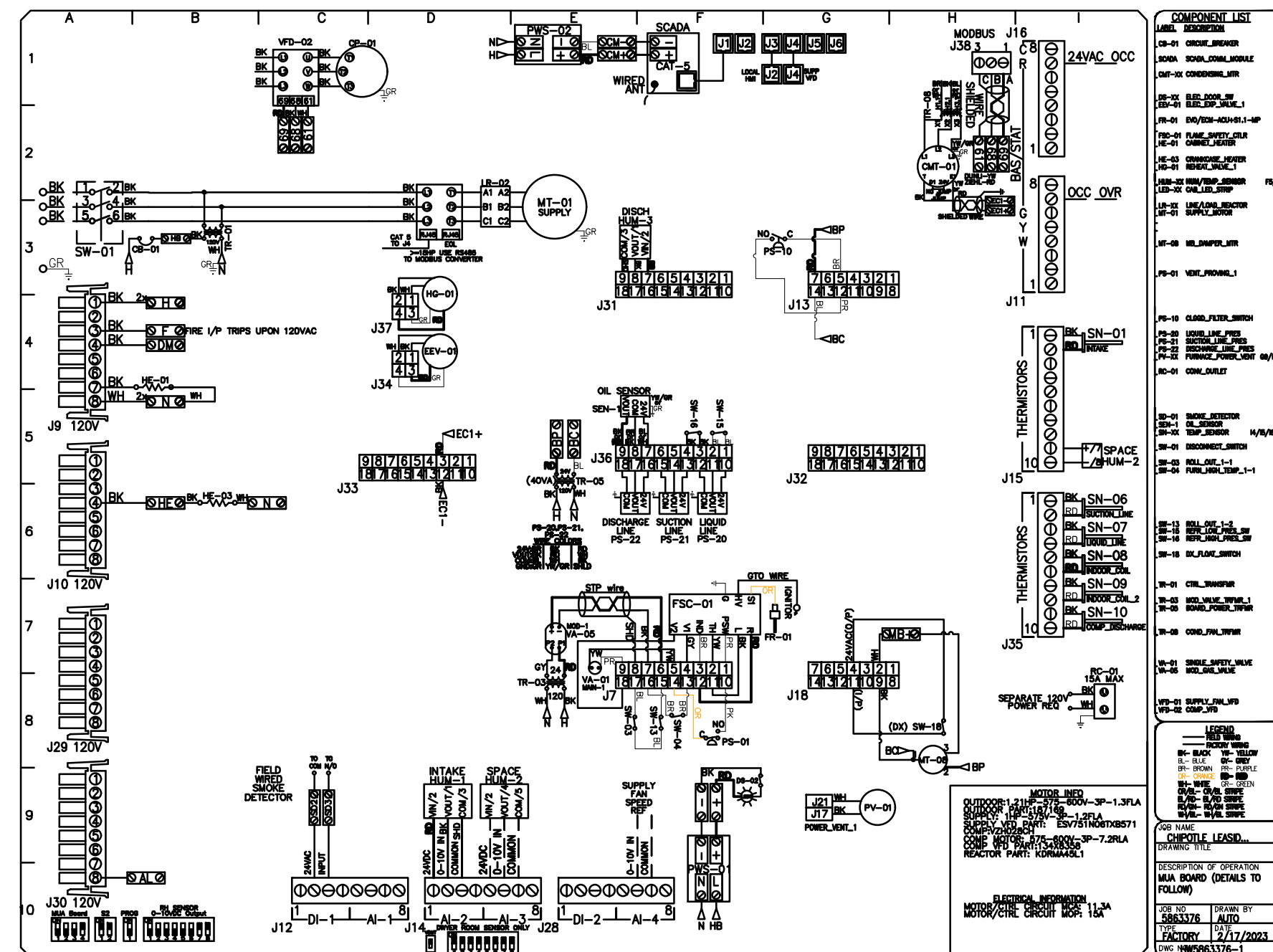
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	1200 CFM MUA	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	2" MERV 13 FILTERS FOR RTU1 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU1 (QTY. 4)
		1	OVERHEAT STAT
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	RTU1 DOWN DISCHARGE
		1	RTU1 FIXED 100% OA INTAKE CONTROL
		1	RTU1 NO RETURN - 100% OA
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	OCCUPIED SCHEDULING
		1	RTU1 CURB DUCT HANGER
		1	DUCT MOUNTED SMOKE DETECTOR - SHIPS LOOSE
		1	CONTROL PANEL ENCLOSURE HEATER - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU1 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION, INCLUDES RECEPTACLE, COVER AND J BOX
		1	5 TON MODULATING COOLING OPTION, 575/600V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FAN
		1	5 TON MODULATING REHEAT OPTION - DISCHARGE DEWPOINT CONTROL
		1	RTU SIZE 1 INTAKE HOOD, SHIPPED LOOSE
		1	RTU1 HAL GUARD
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
		1	LOAD REACTOR MOUNTED IN FAN
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)		

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	#1	1200 CFM MUA	103 LBS	CURB	41.000"W X 71.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.

FOR QUESTIONS, CALL THE
Highwoods Group
REGION 40
PHONE: (919) 875-0420
EMAIL: rsg40@captveaire.com



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		
4		

CAPTIVE
Highwoods Group

4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: rsg40@captveaire.com

CHIPOTLE LEASIDE #4733 RTU
101 LAIRD DRIVE,
TORONTO, ON, M4G 3T7

DATE: 2/17/2023
DWG.#: 5863376
DRAWN BY: Dan Luddy
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

Consultant:

SNC-LAVALIN
Engineering Services
Canada
235 Leaml Road
Toronto, Ontario
Canada M3B 2V1
Tel: 416-445-8255
SNC-LAVALIN PROJECT # 2022-692312

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CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: 614.318.2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4733
LEASIDE
101 LAIRD DRIVE,
TORONTO, ON, M4G 3T7

DESIGN BULLETIN: DB-04/2022

NO.	DATE	DESCRIPTION	BY
1	2023-01-06	ISSUED FOR ILL REVIEW	KL
2	2023-01-18	ISSUED FOR PERMIT/TENDER	KL
3	2023-02-23	ISSUED FOR ADD M-01	KL
4	2023-03-31	ISSUED FOR CONSTRUCTION	KL


Drawn: KL Checked: AJG

Project No: 22129 SCALE: N.T.S.

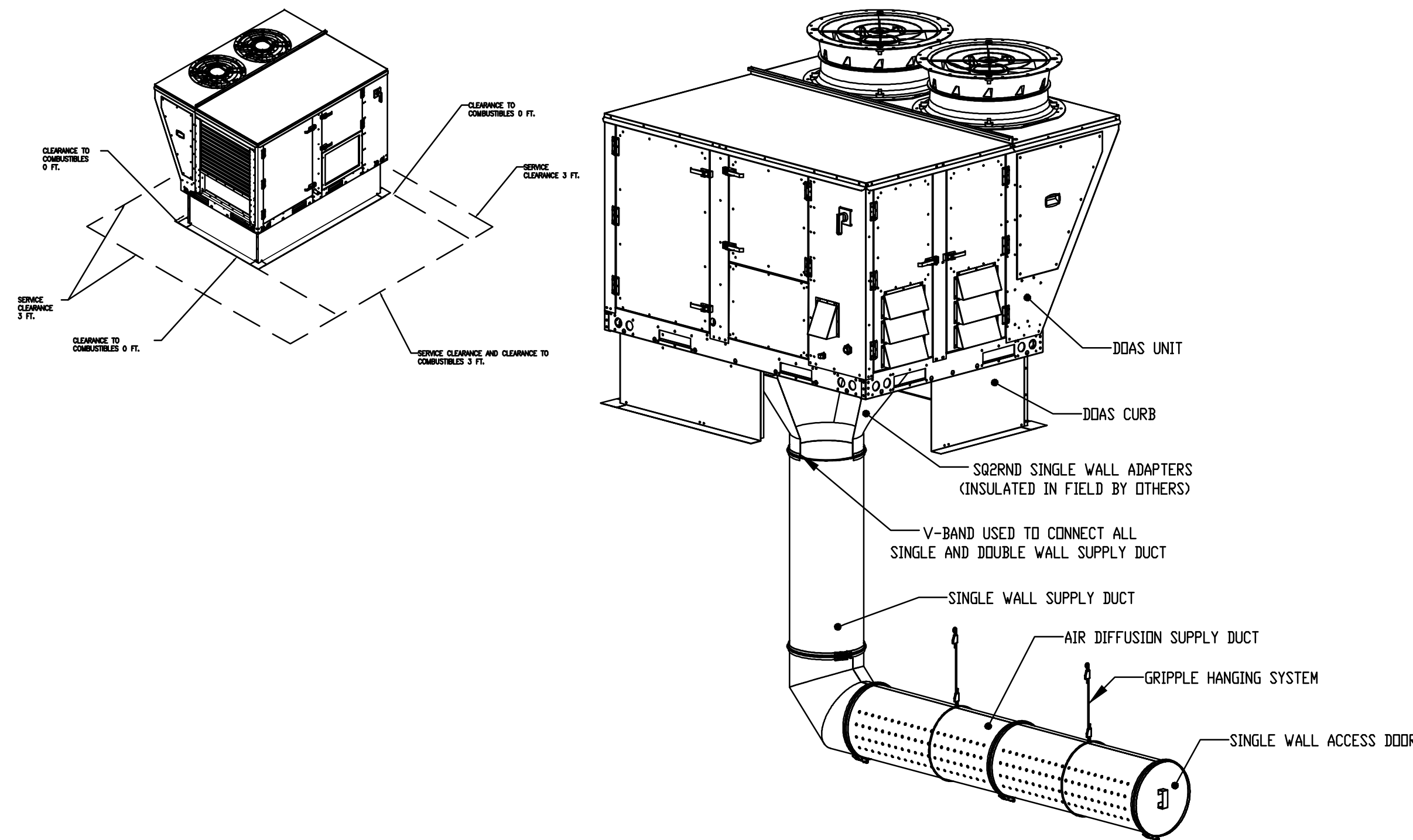
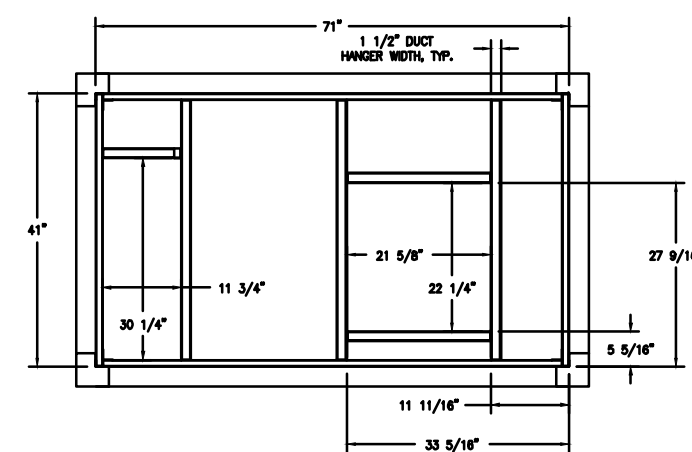
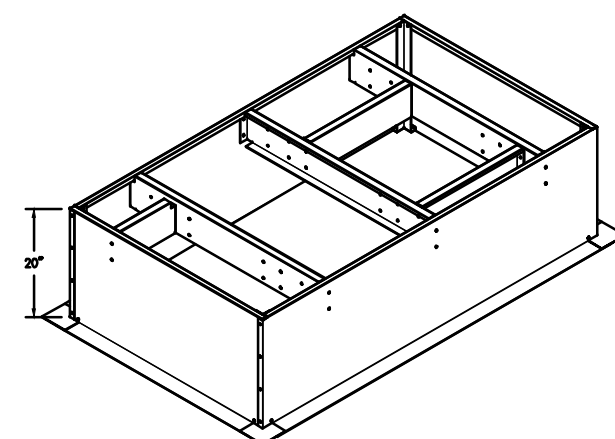
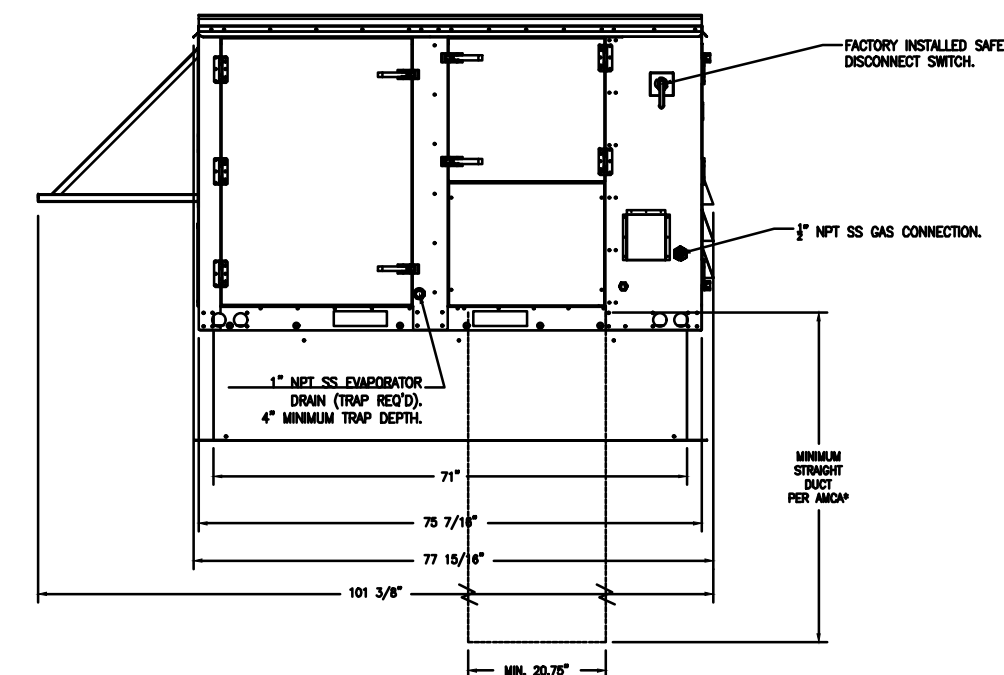
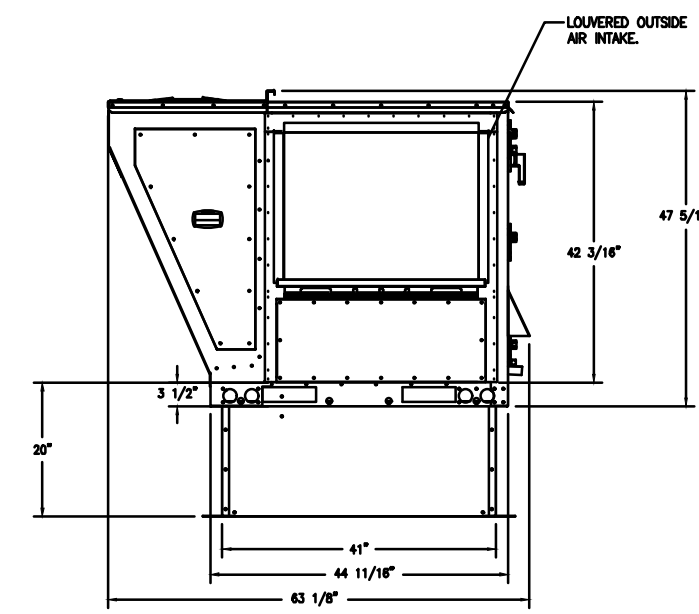
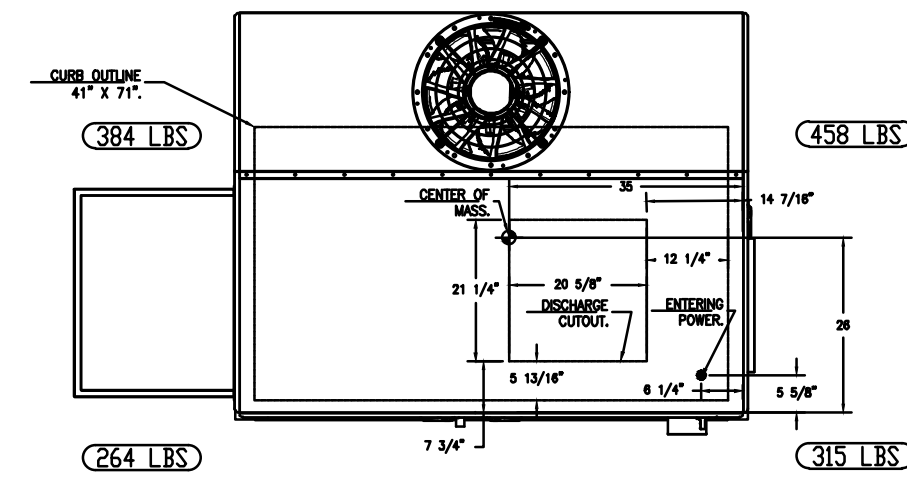
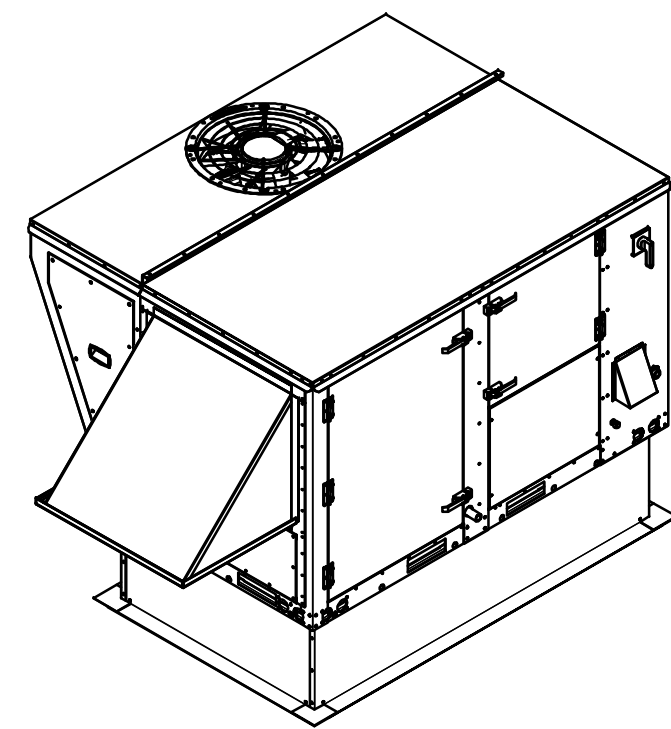
Contents:
KITCHEN EXHAUST
SYSTEM DETAILS

FAN #1 CASRTU1-I.150-13-5T -- HEATER (1200 CFM MUA)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.

*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 20.75" x 21.5".



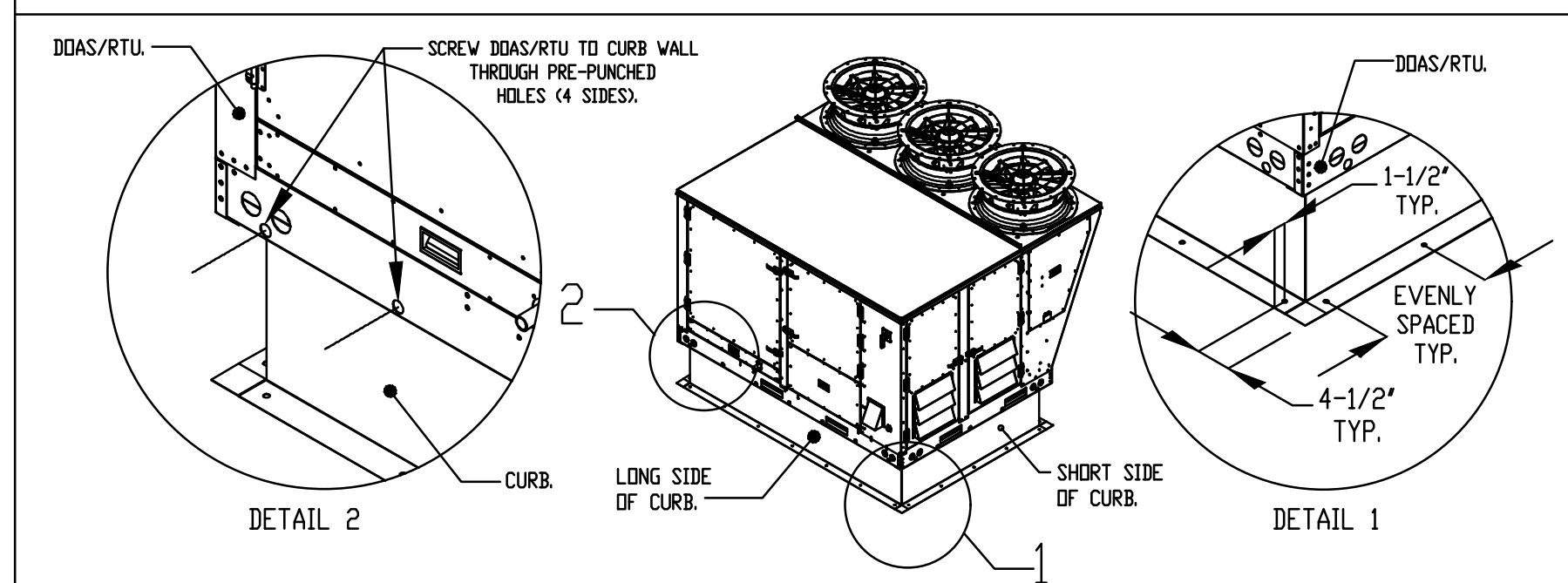
AIR DIFFUSION SUPPLY DUCT SPECIFICATIONS:
 PROVIDE AIR DIFFUSION SUPPLY DUCT EQUAL TO CAPTIVEAIR SYSTEMS MODEL DW-S0(HC), DW-S90(HC), & DW-S180(HC). THREE DISTINCT HOLE PATTERN OPTIONS TO COVER A VARIETY OF CEILING HEIGHTS. NO ADDITIONAL DIFFUSERS REQUIRED, AS THE DUCT ITSELF PROVIDES AIR DIFFUSION. MADE OF HIGH QUALITY STAINLESS STEEL DESIGNED TO LAST 20+ YEARS. HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 24 GAUGE, 430 SS - 5" THRU 24". HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 20 GAUGE, 430 SS - 26" THRU 36". QUICK ONSITE ASSEMBLY USING EPDM GASKETS & UNIVERSAL V-BANDS. DOUBLE WALL SUPPLY DUCT AVAILABLE FOR INTERIOR AND EXTERIOR SPACES, EITHER CONDITIONED OR UNCONDITIONED. DOUBLE WALL SUPPLY DUCT AVAILABLE IN DW-1S, DW-2S, & DW-3S TO MEET SPECIFIC REGIONAL "R" VALUE REQUIREMENTS.

Insulation R-Value Recommendations		
Supply Duct Type	Minimum R-value	Space Type
Single Wall - S & -HC	N/A	Conditioned Space Only
Double Wall - 1S	R-4	Unconditioned Interior Space Only
Double Wall - 2S	R-8	Unconditioned Space Climate Zones 1-4
Double Wall - 3S	R-12	Unconditioned Space Climate Zones 5-8

DOUBLE WALL SUPPLY DUCT IS INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL. AIR DIFFUSION SUPPLY DUCT COMPLIES WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS) BEST PRACTICES. POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE, SEE NFPA 13, TABLE 8.12.5.1.1.

TYPICAL DDAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

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



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE
 Highwoods Group
 www.captiveair.com
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CHIPOTLE LEASIDE #4733 RTU
 101 LAIRD DRIVE,
 TORONTO, ON, M4G 3T7

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 DRAWN BY: Dan Luddy
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SHEET NO. 2

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Consultant:

SNC-LAVALIN
 Engineering Services
 Canada
 235 LeMill Road
 Toronto, Ontario
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 SNC-LAVALIN PROJECT # 2022-692312

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M312