GENERAL SPECIFICATIONS FOR MECHANICAL WORK

1. GENERAL

1.1. THE FOLLOWING SECTION APPLIES TO THE MECHANICAL AND PLUMBING WORK RELATED TO THIS PROJECT.

1.2. THE INTENT OF THE SPECIFICATIONS, INCLUDING ALL APPENDICES AND DRAWINGS, SHALL BE DEEMED TO COVER THE COMPLETE INSTALLATION, READY FOR OPERATION. CONSEQUENTLY, MINOR DETAILS NOT NECESSARILY SHOWN OR SPECIFIED BUT NECESSARY FOR THE PROPER FUNCTIONING OF THE INSTALLATION, INCLUDING EQUIPMENT SERVICEABILITY, SHALL BE INCLUDED IN THE WORK.

1.3. THE CONTRACTOR SHALL FURNISH ALL LABOUR, MATERIAL AND EQUIPMENT RELATED TO THE INSTALLATION OF THE WORK OUTLINED IN THE CONTRACT DOCUMENTS.

2. DEFINITIONS

2.1. THE TERM "OWNER" USED IN THROUGHOUT THE SPECIFICATIONS REFERS TO THE BUILDING OWNER/LANDLORD.

2.2. THE TERM "TENANT" USED IN THROUGHOUT THE SPECIFICATIONS REFERS TO CHIPOTLE MEXICAN GRILL, INC.

2.3. ANY REFERENCE TO THE "DESIGN AUTHORITY" OR "CONSULTANT" SHALL MEAN PRISM ENGINEERING LTD.

2.4. THE WORD "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL" UNLESS OTHERWISE INDICATED.

2.5. THE NEW INSTALLATION SHALL MEET THE CURRENT BUILDING STANDARDS IN ALL ASPECTS.

3. GOVERNING REGULATIONS

3.1. THE WORK UNDER THIS CONTRACT SHALL CONFORM, BUT NOT BE LIMITED TO, THE REQUIREMENTS OF THE FOLLOWING CODES, REGULATIONS, AND STANDARDS:

3.1.1. BY-LAWS, STANDARDS AND CODES:

3.1.1.1. LOCAL BUILDING BY-LAWS

3.1.1.2. JURISDICTIONAL BUILDING BYLAWS

3.1.1.3. CURRENT NATIONAL BUILDING CODE

3.1.1.4. CURRENT NATIONAL BUILDING ENERGY CODE

3.1.1.5. CURRENT NFPA 13

3.1.1.6. CANADIAN GAS CODE CAN/CGA-B149.1-M91

3.1.1.7. CANADIAN ELECTRICAL CODE C22

3.1.1.8. BOILER SAFETY BRANCH REGULATIONS

3.1.1.9. B-52 MECHANICAL REFRIGERATION CODE

3.1.2. SMACNA PUBLICATIONS:

3.1.2.1. CURRENT HVAC DUCT CONSTRUCTION STANDARDS

3.1.2.2. GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PIPING SYSTEMS

3.1.2.3. BCICA QUALITY STANDARDS FOR MECHANICAL INSULATION MANUAL

3.2. COMPLY WITH THE OWNER'S REQUIREMENTS FOR CONSTRUCTION ACTIVITIES IN THE BUILDING.

4. PERMITS

4.1. OBTAIN ALL REQUIRED PERMITS, PAY ALL FEES THEREFORE, AND COMPLY WITH ALL PROVINCIAL, MUNICIPAL, AND OTHER LEGAL REGULATIONS, CODES AND BY-LAWS APPLICABLE TO THE WORK.

4.2. PROVIDE CERTIFICATES FOR INCLUSION IN O&M DOCUMENTATION, AS EVIDENCE THAT THE WORK CONFORMS WITH THE LAWS AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.

5. EXAMINATION OF SITE

5.1. VISIT THE SITE BEFORE TENDERING AND THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, DUCTWORK AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION, THAT IN THEIR OPINION, PREVENTS THE PROPER INSTALLATION OF THE WORK.

5.2. NO CONSIDERATION WILL BE GRANTED FOR ANY MISUNDERSTANDING OF WORK TO BE DONE RESULTING FROM FAILURE TO VISIT THE SITE.

5.3. WHEN THE CONTRACT DOCUMENTS DO NOT CONTAIN SUFFICIENT INFORMATION FOR THE PROPER SELECTION OF EQUIPMENT FOR BIDDING, NOTIFY THE DESIGN AUTHORITY DURING THE TENDERING PERIOD. IF CLARIFICATION IS NOT OBTAINED, ALLOW FOR THE MOST EXPENSIVE ARRANGEMENT. FAILURE TO DO THIS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO SUPPLY THE INTENDED EQUIPMENT.

5.4. CO-ORDINATE WORK WITH ALL TRADES AND MAKE CHANGES TO FACILITATE A SATISFACTORY INSTALLATION. MAKE NO DEVIATIONS TO THE DESIGN INTENT WITHOUT WRITTEN APPROVAL.

5.5. THE DIMENSIONS OF EXISTING WORK IS APPROXIMATE AND THE CONTRACTOR MUST TAKE ACTUAL MEASUREMENTS BEFORE ORDERING MATERIALS, EQUIPMENT, AND THE LIKE. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL MAKE THE CONTRACTOR FULLY RESPONSIBLE FOR REPLACING SUCH MATERIAL OR EQUIPMENT AT NO EXTRA COST TO THE CONTRACT.

5.6. A LOCKOUT AND TAGGING SYSTEM MUST BE EMPLOYED TO PREVENT THE UNEXPECTED ENERGIZING OF EQUIPMENT, MACHINERY, OR ELECTRICAL SERVICES. THIS SYSTEM MUST BE EMPLOYED BEFORE WORKING ON ELECTRICAL SERVICES TO POWER EQUIPMENT. ALL POWER EQUIPMENT MUST BE STOPPED, DISCONNECTED, AND THEN LOCKED OUT AT THE MAIN CONTROL OR BREAKER WITH TWO OR MORE LOCKS. THE SWITCH WILL THEN BE TAGGED. WHEN WORK IS COMPLETE, EACH PERSON MUST REMOVE THEIR OWN LOCK. NO ONE WILL REMOVE ANOTHER PERSON'S LOCK.

6. LIABILITY

6.1. ASSUME RESPONSIBILITY FOR LAYING OUT WORK AND FOR DAMAGE CAUSED BY IMPROPER EXECUTION OF WORK.

6.2. PROTECT FINISHED AND UNFINISHED WORK FILLINGS AND OCCUPANT'S FURNITURE AND EQUIPMENT FROM DAMAGE.

6.3. TAKE RESPONSIBILITY FOR CONDITION OF MATERIALS AND EQUIPMENT SUPPLIED AND PROTECT UNTIL WORK IS COMPLETED AND ACCEPTED.

6.4. THE OWNER SHALL HAVE RECOURSE IN TORT FOR ANY NEGLIGENT ACTION BY THE CONTRACTOR OR HIS REPRESENTATIVES.

7. EXISTING SERVICES

7.1. PROTECT ALL EXISTING SERVICES FROM CONSTRUCTION DEBRIS.

7.2. ALL EXISTING FIRE RATINGS THROUGH FLOOR SLABS OR WALLS SHALL BE RETAINED. ALL LIFE SAFETY SYSTEMS INCLUDING EXIT/EMERGENCY LIGHTING AND FIRE ALARM SYSTEMS SHALL REMAIN IN A FUNCTIONAL STATE DURING DEMOLITION AS WELL AS DURING CONSTRUCTION.

7.3. UNLESS OTHERWISE SPECIFIED, COMPLETELY REMOVE ALL EQUIPMENT, WHICH BECOMES REDUNDANT AND IS NO LONGER REQUIRED DUE TO THE WORK IN THIS CONTRACT, INCLUDING DUCT WORK, PIPING, CONTROLS AND POWER CONNECTIONS.

7.4. WHERE NOTED ON THE DRAWINGS, THE EQUIPMENT/MATERIAL SHALL BE HANDED OVER TO THE OWNER. A RECEIPT OF THE TRANSFER MAY BE REQUIRED BY THE TENANT, INDICATING WHERE THE MATERIAL HAS BEEN STORED.

7.5. ALL EQUIPMENT OPERATED BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE OF THE WORK, SHALL BE MAINTAINED BY THE CONTRACTOR. ALL AIR FILTERS MUST BE REPLACED PRIOR TO TURN OVER TO THE OWNER.

8. CUTTING, CORING AND PATCHING

8.1. LAYOUT ALL CUTTING, PATCHING, DIGGING, CANNING AND CORING REQUIRED TO ACCOMMODATE THE MECHANICAL SERVICES. THE PERFORMANCE OF ACTUAL CUTTING AND PATCHING IS BY THE GENERAL CONTRACTOR. BE RESPONSIBLE FOR ALL OPENINGS REQUIRED UNDER THIS CONTRACT, INCLUDING DUCT OPENINGS. ALLOW OVERSIZED OPENINGS FOR FIRE DAMPERS.

8.2. VERIFY THE LOCATIONS OF EXISTING SERVICE RUNS AND STRUCTURAL REINFORCEMENT WITHIN EXISTING CONCRETE WALLS AND FLOORS PRIOR TO CORE DRILLING AND CUTTING. PROVIDE X-RAY OR PENETRATING RADAR (GPR) FOR EACH PROPOSED OPENING THROUGH CONCRETE FLOORS AND WALLS, AS REQUIRED BY THE STRUCTURAL CONSULTANT.

8.3. CORING AND CUTTING OF STRUCTURAL BUILDING COMPONENTS SHALL ONLY TAKE PLACE UPON THE RECEIPT OF SPECIFIC WRITTEN APPROVAL OF A STRUCTURAL ENGINEER PAID BY THE MECHANICAL CONTRACTOR.

9. ACCESS DOORS AND PANELS

9.1. SUPPLY AND INSTALL ALL NECESSARY ACCESS DOORS FOR MECHANICAL EQUIPMENT, INCLUDING DAMPERS, FILTERS, CONTROL CONNECTIONS, ETC. WHERE NECESSARY, DOORS SHALL BE RATED TO SUITE FIRE ASSEMBLY RATING.

9.2. ALL ACCESS DOORS SHALL, IN ANY EVENT, BE SIZED TO SATISFY THE MINIMUM ACCESS REQUIREMENTS AS REQUIRED BY THE BUILDING CODE BUT SHALL BE INCREASED IN SIZE WHEREVER NECESSARY TO SUIT ARCHITECTURAL BLOCK OR OTHER CONSTRUCTION MODULES TO PROVIDE A COMPLETE MODULAR FINISHED APPEARANCE.

9.3. DO NOT LOCATE ACCESS DOORS IN FEATURE WALLS OR CEILINGS WITHOUT THE PRIOR APPROVAL OF THE CONSULTANT AND/OR OWNER. LOCATE IN SERVICE AREAS AND STORAGE ROOMS WHERE POSSIBLE.

9.4. PROVIDE APPROVED ACCESS PANEL FOR SERVICING AND INSPECTION OF FIRE DAMPERS.

9.5. WHERE ACCESS PANELS ARE INSTALLED IN FIRE RATED ASSEMBLIES, THE ACCESS PANEL SHALL CARRY THE APPROPRIATE FIRE RATING.

9.6. ACCESS PANELS SHALL BE 14 GAUGE BONDERIZED STEEL, WITH HINGED DOORS.

9.7. CONTRACTOR SHALL LEAVE ACCESS PANELS UNINSTALLED DURING FINAL REVIEW.

10. PENETRATIONS

10.1. SHOULD PIPES OR DUCT WORK PENETRATE FIRE RATED WALLS AND FLOORS, THE CONTRACTOR SHALL FURNISH LABOUR, MATERIAL, EQUIPMENT, AND SERVICES NECESSARY TO PROVIDE FIRE STOPPING AND SEALANT AROUND THE PENETRATION.

10.2. PENETRATIONS THROUGH NON-RATED WALL ASSEMBLIES MUST HAVE SEALANT INSTALLED AROUND THE SERVICE TO PREVENT AIR LEAKAGE. FLOOR PENETRATIONS THROUGH NON-RATED ASSEMBLIES MUST HAVE WATER RESISTANT SEALANT INSTALLED AROUND THE SERVICE.

11. FIRE STOPPING

11.1. NOT INCLUDED IN SCOPE OF WORK.

12. WORKMANSHIP

12.1. WORKMANSHIP SHALL BE IN ACCORDANCE WITH ESTABLISHED PRACTICE AND STANDARDS ACCEPTED AND RECOGNIZED BY DESIGN AUTHORITIES AND THE TRADE. EMPLOY ONLY TRADESMEN HOLDING VALID PROVINCIAL TRADE QUALIFICATION CERTIFICATES. TRADESMEN SHALL PERFORM ONLY WORK THAT THEIR CERTIFICATE PERMITS.

12.2. ALL ROOFING WORK SHALL BE CARRIED OUT BE A REGISTERED RACBC CONTRACTOR.

12.3. THE CONTRACTOR SHALL CLEANUP THE WORK AREA AT THE END OF EACH SHIFT. UPON COMPLETION OF THE WORK, REMOVE ALL TOOLS, DEBRIS, SURPLUS AND WASTE MATERIALS.

13. REFRIGERANT DISPOSAL

13.1. REMOVAL OF ANY REFRIGERANT AC EQUIPMENT, REQUIRES REFRIGERANT TO BE PUMPED OUT BY A LICENSED REFRIGERANT MECHANIC IN ACCORDANCE WITH THE REFRIGERANT CODE OF PRACTISE. PROVIDE CERTIFIED REPORT ON REFRIGERANT DISPOSAL OR RECYCLING TO ENGINEER.

14. MATERIAL

14.1. WHERE TWO OR MORE ITEMS OF EQUIPMENT AND/OR MATERIAL, OF THE SAME TYPE, ARE REQUIRED, THEY SHALL BE THE PRODUCTS OF A SINGLE MANUFACTURER.

14.2. MATERIAL CONSIDERED TO SATISFY THE SPECIFICATION, BUT OF A MANUFACTURER OTHER THAN THOSE NAMED, MAY BE SUBMITTED TO THE DESIGN AUTHORITY FOR CONSIDERATION.

15. SHOP DRAWINGS

15.1. PRIOR TO ORDERING EQUIPMENT AND MATERIAL, SUBMIT DIGITAL SETS OF SHOP DRAWINGS FOR ALL MECHANICAL COMPONENTS TO THE CONSULTANT FOR APPROVAL. AT A MINIMUM, DRAWINGS SHOULD BE PROVIDED FOR FANS, AIR HANDLING UNITS (IE: ROOF TOP UNITS, HEAT PUMPS, FANCOILS, ETC), LOUVRES, GRILLES, DIFFUSERS, FIRE DAMPERS, PLUMBING FIXTURES, PLUMBING DEVICES AND CONTROLS.

15.2. EACH SHOP DRAWINGS SUBMITTAL SHALL BE STAMPED BY THE CONTRACTOR VERIFYING THAT THE SUBMITTED SHOP DRAWINGS HAVE BEEN REVIEWED FOR CONFORMANCE WITH THE SPECIFICATIONS AND MUST INCLUDE THE PROJECT IDENTIFICATION NUMBER, PROJECT NAME, PROJECT ADDRESS, SELECTED EQUIPMENT INCLUDING ALL ACCESSORIES AND QUANTITY OF PRODUCT.

16. RECORD DRAWINGS

16.1. MAINTAIN ONE CONTRACT DRAWING WHITE PRINT ON SITE, SOLELY FOR THE PURPOSE OF RECORDING, IN RED, ANY CHANGE AND/OR DEVIATION FROM THE CONTRACT DRAWING AS IT OCCURS. SUBMIT A COPY OF AS-INSTALLED DRAWINGS TO THE CONSULTANT UPON SUBSTANTIAL COMPLETION OF THIS CONTRACT IN PDF FORMAT OR HARD COPY.

16.2. MECHANICAL CONTRACTOR SHALL SUBMIT MECHANICAL RECORD DRAWINGS ("AS-BUILTS") MARKUPS TO PRISM ENGINEERING LTD. FOR REVIEW. THE HAND MARK UP CHANGES SHALL BE IMPLEMENTED INTO AUTOCAD BY PRISM ENGINEERING LTD TO PRODUCE RECORD DRAWINGS ON BEHALF OF CHIPOTLE MEXICAN GRILLE, INC.

17. OPERATING & MAINTENANCE MANUALS

17.1. REFER TO SECTION 01700 EXECUTION REQUIREMENTS ON DRAWING G010.

18. WARRANTY

18.1. PROVIDE A WRITTEN AND SIGNED WARRANTY IN THE NAME OF THE TENANT. THE WARRANTY IS TO INCLUDE THE NECESSARY MATERIALS AND LABOUR TO COVER REPAIR OR REPLACEMENT OF SPECIFIED WORK, AS A RESULT OF FAULTY MATERIALS OR WORKMANSHIP. THE WARRANTY IS TO COVER ONE YEAR FROM THE DATE OF THE CERTIFICATE OF SUBSTANTIAL COMPLETION.

19. SITE VISITS

19.1. INTERIM FIELD REVIEWS ARE TO BE COORDINATED WITH PRISM ENGINEERING WITHIN 7 DAYS BEFORE THE PLANNED SITE VISIT. VIRTUAL SITE VISITS ARE NOT PERMITTED UNLESS PREVIOUSLY COORDINATED WITH THE CONSULTANT TEAM AND OWNER DUE TO UNFORESEEN CIRCUMSTANCES (IE: HEALTH RISK, TRAVEL RESTRICTIONS, RESOURCE SHORTAGES, ETC).

19.2. IF A VIRTUAL SITE VISIT IS AGREED TO BY THE CONSULTANT AND OWNER, THE HOST OF THE MEETING MUST PROVIDE A RECORDING OF THE VIDEO WITHIN 24 HOURS OF THE MEETING TO ENSURE PROPER RECORDS ARE MAINTAINED.

19.3. THE CONTRACTOR SHALL ADVISE THE CONSULTANT SEVEN (7) DAYS BEFORE THE PLANNED FINAL SITE REVIEW TO ARRANGE A MUTUALLY AGREEABLE TIME AND DATE TO CONDUCT THE FINAL SITE REVIEW. ALL SYSTEMS MUST BE FULLY OPERATIONAL BEFORE THE SCHEDULED SITE VISIT. IF IT IS DETERMINED AT THE TIME OF THE SITE VISIT THAT WORK IS NOT COMPLETE AND WARRANTS A SECOND SITE VISIT, ALL COSTS INCURRED WILL BE BILLED DIRECTLY TO THE MECHANICAL CONTRACTOR.

19.4. THE CONTRACTOR IS TO PROVIDE THE REQUIRED RESOURCES AND STAFF TO REVIEW THE INSTALLATION WORK AND DEMONSTRATE THE OPERATION OF EQUIPMENT.

19.5. THE CONSULTANT WILL ISSUE A DEFICIENCY LIST WITHIN FIVE (5) DAYS OF THE SITE VISIT. ALL DEFICIENCIES SHALL BE COMPLETED WITHIN TWO (2) WEEKS OF THE REPORT ISSUED DATE AND A LETTER SUBMITTED TO THE CONSULTANT ADVISING THAT THE WORK IS COMPLETE. FAILURE TO COMPLETE THE WORK WILL RESULT IN WORK BEING COMPLETED BY THE OWNER AND THE COSTS DEDUCTED FROM THE FINAL PAYMENT.

20. BALANCING AIR SYSTEMS

20.1. INDEPENDENT AIR BALANCE CONTRACTOR OR QUALIFIED MECHANICAL CONTRACTOR SHALL ACCURATELY BALANCE THE SUPPLY, RETURN, OUTSIDE AND EXHAUST AIR TO PROVIDE AIR VOLUME QUANTITIES INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS. BALANCER SHALL BE QUALIFIED FOR TAB WORK PER NEBB STANDARDS.

20.2. ADJUST DUCT AND TERMINAL BALANCE DAMPERS TO BALANCE BOTH THE HEATING AND COOLING SUPPLY AIR SYSTEM TO PROVIDE THE DESIGN AIR QUANTITIES WITHIN +/- 10% AT EACH OUTLET AND MAINTAIN THE DESIGN RELATIONSHIP BETWEEN THE SUPPLY AND RETURN AIR SYSTEMS.

20.3. ADJUST DIFFUSERS TO OBTAIN THE OPTIMUM AIR DISTRIBUTION PATTERN. SET FINAL BALANCE POSITION ON ALL BALANCE DAMPERS AND ADJUSTABLE AIR TURNING DEVICES PRIOR TO AIR FLOW TESTING AND BALANCE REPORT WRITE-UP.

20.4. SUBMIT A REPORT TO THE CONSULTANT INDICATING FINAL AIR QUANTITIES (SUPPLY, OUTDOOR AND EXHAUST AIR) OBTAINED. PROVIDE SINGLE LINE DUCT LAYOUT WITH TERMINAL DEVICES WITH DESIGN AND ACTUAL AIRFLOWS.

21. COMMISSIONING AND DEMONSTRATION

21.1. THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND COMMISSIONING OF ALL EQUIPMENT SUPPLIED AND REUSED IN THE SCOPE OF THE MECHANICAL WORK.

21.2. CONFIRM OPERATION OF ALL NEW EQUIPMENT AND REVIEW CONDITION OF ALL EXISTING HVAC EQUIPMENT BEING REUSED.

21.3. AT THE CONCLUSION OF THE COMMISSIONING, DEMONSTRATE THE OPERATION OF THE MECHANICAL SYSTEMS AT ALL LOADS TO THE ENGINEER AND OWNERS OPERATING STAFF.

21.4. AT THE COMPLETION OF THE COMMISSIONING AND TESTING AND BALANCING, SUBMIT A REPORT TO THE ENGINEER CERTIFYING THAT ALL OF THE WORK UNDER THE CONTRACT IS COMPLETE, CLEAN AND OPERATIONAL AND IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

21.5. COMMISSIONING REPORT TO BE INSERTED IN THE OPERATING AND MAINTENANCE MANUAL.

HVAC GENERAL NOTES

A. GENERAL NOTES APPLY TO HVAC SHEETS.

B. WORK SHALL COMPLY WITH CURRENT BUILDING CODES AND LOCAL BYLAWS AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, BUILDING BYLAWS AND PROVINCIAL CODE. PERMITS ASSOCIATED WITH THE WORK SHALL BE PAID FOR BY THE MECHANICAL CONTRACTOR. CONTRACTOR SHALL OBTAIN ALL INSPECTIONS REQUIRED.

C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.

D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS. REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.

E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.

G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.

H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

I. UNLESS NOTED OTHERWISE, RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL HAVE 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 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
DUCT		
	CONCEALED, GENERAL EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
PIPE		
	REFRIGERANT	TYPE 'L' COPPER
	HEATING WATER (SUPPLY & RETURN)	SCH.40 BLACK STEEL, GRADE B
	CHILLED WATER (SUPPLY & RETURN)	SCH.40 BLACK STEEL, GRADE B
	CLOSED CIRCUIT HEAT PUMP	SCH.40 BLACK STEEL, GRADE B
	CONDENSING WATER (SUPPLY & RETURN)	SCH.80 BLACK STEEL, GRADE B

HVAC SYMBOLS

- DEMOLITION
- DUCTWORK
- ACOUSTICALLY INSULATED DUCT
- SUPPLY AIR DUCT RISER - UP
- RETURN AIR DUCT RISER - UP
- SUPPLY AIR DUCT RISER - DOWN
- RETURN AIR DUCT RISER - DOWN
- SUPPLY AIR GRILLE - NEW
- RETURN/EXHAUST AIR GRILLE - NEW
- SUPPLY AIR GRILLE - EXISTING
- RETURN/EXHAUST AIR GRILLE - EXISTING
- DOOR UNDERCUT
- DOOR GRILLE
- TURNING VANES
- ACCESS HATCH (AH)
- ACCESS PANEL (AP)
- HEAT TRACE CABLE
- EXHAUST FAN - CEILING MTD.
- EXHAUST FAN - INLINE
- FIRE DAMPER - NEW
- FIRE DAMPER - EXISTING
- SD SMOKE DAMPER - NEW
- SD SMOKE DAMPER - EXISTING
- M MOTORIZED DAMPER
- BALANCING DAMPER
- BDD BACK DRAFT DAMPER
- T PROGRAMMABLE THERMOSTAT
- S TEMPERATURE SENSOR
- UV AIR PURIFIER
- GM GAS METER
- WM WATER METER
- X AIR FLOW (CFM / L/S)
- # PLAN NOTE
- A | 24x24 | 145 — DIFFUSER/GRILLE TAG (TYPE | SIZE(in/mm) | AIR FLOW (CFM/l/s))
- CWS — CONDENS. WATER SUPPLY
- CWR — CONDENS. WATER SUPPLY
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER SUPPLY
- HWS — HEATING WATER SUPPLY
- HWR — HEATING WATER RETURN
- RL — REFRIGERANT LIQUID
- RV — REFRIGERANT VAPOR

ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
ADJ	ADJACENT
AHJ	AUTHORITY HAVING JURISDICTION
APPROX	APPROXIMATELY
BLDG	BUILDING
CIE	CONNECT INTO EXISTING
CLG	CEILING
CO	CLEAN OUT
CIE	CONNECT INTO EXISTING
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC
DN	DOWN
DWG(S)	DRAWING(S)
EXT'G	EXISTING
ELEC	ELECTRICAL
F&I	FURNISH AND INSTALL
FA	FROM ABOVE
FB	FROM BELOW
FD	FLOOR DRAIN
FT	FOOT/FEET
GC	GENERAL CONTRACTOR
HB	HOSE BIB
HD	HUB DRAIN
HVAC	HEATING, VENTILATION, AIR CONDITIONING
LL	LANDLORD
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
OA	OUTSIDE AIR
RA	RETURN AIR
RE&RE	REMOVE & REINSTALL
REQD	REQUIRED
REV	REVISION
RL	RELOCATE
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY
RWL	RAIN WATER LEADER
SA	SUPPLY AIR
SF	SQUARE FEET
TA	TO ABOVE
TB	TO BELOW
TR	TO REMAIN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
VSC	VARIABLE SPEED CONTROLLER
VTR	VENT TO ROOF
W/	WITH
WIC	WALK-IN COOLER

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DESIGN BULLETIN: DB-03/ 2022

REVISION SCHEDULE

Rev	Date	Description	By
1	18/NOV/22	COORDINATION	PE
2	24/NOV/22	LL REVIEW	PE
3	06/DEC/22	BP	PE
4	18/JAN/23	TENDER	PE

Drawn: Checked:

Project No.

Contents:

GENERAL SPECIFICATIONS

M010

1. DUCTWORK – GALVANIZED STEEL

1.1 PROVIDE GALVANIZED SHEET METAL DUCTWORK IN ACCORDANCE WITH SMACNA STANDARDS SUITABLE FOR OPERATING PRESSURE OF 500 PA AND LESS.

1.2 BALANCE DAMPERS TO BE 0.76 MM THICK, SINGLE BLADE WITH 0.4 MM SHAFT DIAMETER AND END BEARINGS. OPERATOR TO BE LOCKABLE QUADRANT TYPE.

1.3 ALL JOINTS SHALL BE MADE UP OF AIRTIGHT USING DURO–DYNE S–2 DUCT SEALER. SEALER SHALL BE APPLIED TO ALL JOINTS AND SEAMS OF SUPPLY, RETURN AND EXHAUST DUCTWORK.

1.4 ALL DUCTS HAVING ANY SIZE OVER 12" SHALL BE REINFORCED BY CROSS BRACING.

1.5 ALL DUCTS SHALL BE SUPPORTED BY 1" WIDE (16 GA.) GALVANIZED VENT HANGERS FASTENED TO THE SIDE AND BOTTOM OF THE DUCTS BY BOLTS, RIVETS, OR METAL SCREWS. DUCT HANGERS SHALL BE SUSPENDED FROM STRUCTURAL BEARINGS SUCH AS BEAMS, TOP CHORDS, OR STRUCTURAL CONCRETE SLABS. WHERE STRUCTURAL BEARINGS DO NOT EXIST, THE CONTRACTOR SHALL PROVIDE ANGLE OR CHANNEL IRON MEMBERS FROM THE NEAREST STRUCTURAL BEARINGS TO SUPPORT HANGERS.

1.6 PROVIDE AIR EXTRACTORS AT ALL TAKE–OFFS, AND DAMPERS WHERE INDICATED ON DRAWINGS.

1.7 PROVIDE ACCESS PANELS AT EACH SIDE OF HEATING COILS IN THE TRANSITION DUCTWORK AND ON ONE SIDE OF CONTROL OR MANUAL DAMPERS AND FIRE DAMPERS.

1.8 PROVIDE TURN VANES IN ALL 90° SQUARE ELBOWS.

1.9 ALL NEW EXPOSED DUCTWORK TO BE RIGID DUCT. FINAL DUCT CONNECTIONS TO ALL DIFFUSERS TO TERMINATE IN THE FORM OF A 90° RIGID ELBOW AND STRAIGHT SECTION OF RIGID DUCT. SEE DETAIL.

1.10 WHERE INSIDE OF DUCT OR DUCT INSULATION IS VISIBLE FROM FLOOR (BEHIND GRILLE OR IN OPEN DUCT) CONTRACTOR TO PAINT INSIDE DUCT WITH MATTE BLACK PAINT. MINIMUM COVERAGE SHALL BE 1.5X THE EQUIVALENT DUCT DIAMETER.

1.11 CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF DUCT OPENINGS DURING CONSTRUCTION AND DEMOLITION TO PROTECT FROM CONSTRUCTION DUST & DEBRIS.

2. DUCTWORK – FLEXIBLE

2.1 FLEXIBLE DUCTWORK MAY BE INSTALLED IN CONCEALED AREAS. DUCTS SHALL BE HELICALLY WOUND SPIRAL DUCT, EQUAL TO FLEXMASTER T/L, MAXIMUM 10FT (3.048M).

2.2 FLEXIBLE DUCTS MUST BE SECURED TO SOLID DUCT WITH STAINLESS STEEL WORM GEAR TYPE CLAMP.

2.3 DUCTS SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH NFPA STANDARD 90A.

2.4 RADIUS OF BENDS SHALL BE MINIMUM ONE DUCT DIAMETER CENTERLINE RADIUS.

2.5 DUCTS SHALL BE NON–METALLIC CONSTRUCTION AND INSULATED WITH 1" FIBREGLASS INSULATION WITH INTEGRAL VAPOUR BARRIER, RATED FOR 4"SP.

2.6 DUCTS SHALL BE SECURED TO THE METAL SUPPLY DUCTS AND THE INLET SLEEVES ON THE BOXES WITH DUCT SEALANT AND NON–METALLIC DRAW BANDS.

2.7 CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF DUCT OPENINGS DURING CONSTRUCTION AND DEMOLITION TO PROTECT FROM CONSTRUCTION DUST & DEBRIS.

3. KITCHEN EXHAUST DUCTWORK – CARBON STEEL

3.1 DUCTWORK SERVING KITCHEN HOOD EXHAUST SHALL COMPLY WITH NFPA 96 "VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS". DUCTS SHALL BE CONSTRUCTED OF AND SUPPORTED BY WELDED CARBON STEEL NO LESS THAN 0.060 INCHES (1.52MM) IN THICKNESS (16 GAUGE).

3.2 DUCT SHALL BE INSTALLED WITH A MINIMUM 2% SLOPE ON HORIZONTAL RUNS UP TO 75FT (22.86M).

3.3 PROVIDE DRAIN AT LOW POINTS IN HORIZONTAL DUCT.

3.4 PROVIDE ACCESS PANEL OPENINGS AS REQUIRED BY NFPA 96.

3.5 EXTERIOR DUCT INSTALLATIONS SHALL BE PROTECTED WITH A PAINT OR SUITABLE WEATHER PROTECTIVE COATING (UNLESS STAINLESS STEEL DUCTWORK IS INSTALLED) AS NOTED IN THE FOLLOWING SECTION.

3.6 ENTIRE DUCT SHALL BE WRAPPED IN 2 LAYERS OF ULC LISTED 3M FIRE DUCT WRAP.

4. FLUE GAS VENT

4.1 VENTING FROM ATMOSPHERIC TYPE GAS FIRED EQUIPMENT SHALL BE APPROVED TYPE "B" VENT. VENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND ULC APPROVED. VENT SHALL BE SUITABLE SUPPORTED AND GUYED.

4.2 VENTING PASSING THROUGH THE ROOF SHALL BE FITTED WITH GALVANIZED WELDED 16 GAUGE STEEL ROOF CURBS COMPLETE WITH MOUNTING PLATE. CURB SHALL BE MINIMUM 400MM (16") HIGH AND SHALL BE SECURED DOWN TO THE ROOF DECK. VENT SHALL BE FITTED WITH A 20 GAUGE GALVANIZED STEEL CURB CAP FLASHING AND STORM COLLAR. CAULK WITH WEATHER TIGHT SEAL. REFER TO DETAIL SHOWN ON DRAWING M601.

DUCT INSULATION

5. GENERAL

5.1 "CONCEALED" INSULATED MECHANICAL SERVICES IN FURRED SPACES, SHAFTS AND HUNG CEILINGS CONSIDERED TO BE CONCEALED.

5.2 "EXPOSED" WILL MEAN NOT CONCEALED.

5.3 PROVIDE INSULATION ON ALL DUCTWORK SERVING HEATING AND VENTILATION SYSTEMS INCLUDING:

5.3.1 EXTERNAL INSULATION: EXHAUST DUCTWORK WITHIN 5FT (1.5M) OF AN EXTERIOR WALL.

5.3.2 INTERNAL INSULATION: OUTDOOR AIR DUCTWORK.

5.3.3 EXTERNAL INSULATION: ALL AIR–CONDITIONED SUPPLY DUCTWORK.

5.3.4 ACOUSTIC INSULATION: ON ALL SUPPLY AND RETURN DUCT WITHIN 10FT (3.048M) OF AIR HANDLING EQUIPMENT, NOT NECESSARILY SHOWN ON THE DRAWINGS.

5.4 EXPOSED DUCTS WITHIN A ROOM, WHICH IS BEING SERVED BY THE EXPOSED DUCTS, DO NOT REQUIRE EXTERNAL INSULATION (EXCLUDING OUTDOOR AIR DUCTS). APPLY AT LEAST ONE COAT OF CORROSION RESISTANT PRIMER FOR SITE PAINTING.

5.5 INSULATION SHALL BE INSTALLED BY A QUALIFIED COMPANY PERFORMING IN THIS TYPE OF WORK, WITH A MINIMUM OF THREE (3) YEARS EXPERIENCE SPECIALIZING IN THIS TRADE.

5.6 DUCT DIMENSIONS, AS INDICATED, ARE CLEAR INSIDE DUCT LINING.

5.7 INSTALL IN ACCORDANCE WITH RECOMMENDATIONS OF SMACNA DUCT LINER STANDARDS.

5.8 EXTERNALLY INSULATE ALL CONCEALED RIGID SUPPLY AIR DUCTS AND PLENUMS.

5.9 EXHAUST DUCTWORK WITHIN 5FT (1.5M) OF AN EXTERIOR WALL SHALL BE EXTERNALLY INSULATED WITH 1 ½" (38MM) THICK FOIL FACED FLEXIBLE FIBREGLASS. APPLY USING RECOMMENDED ADHESIVE AND TAPE ALL JOINTS USING VAPOUR BARRIER TAPE.

5.10 INSULATION ON CONCEALED DUCTWORK MAY BE LEFT AS FACTORY FINISHED WITH NO FURTHER FINISH REQUIRED. ALL JOINTS TO BE SEALED WITH VAPOUR BARRIER TAPE.

5.11 FLEXIBLE DUCTWORK CONNECTIONS TO EQUIPMENT SHALL NOT BE INSULATED.

5.12 EXTREME CARE SHALL BE TAKEN IN INSULATING HIGH AND MEDIUM PRESSURE DUCTWORK INCLUDING ALL DUCTWORK BETWEEN THE FAN DISCHARGE AND ALL MIXING BOXES TO ENSURE THE DUCT IS NOT PIERCED WITH SHEET METAL SCREWS OR OTHER FASTENERS. ALL HIGH AND MEDIUM PRESSURE DUCTS IN THESE SPECIFICATIONS ARE CLASSIFIED AS HIGH VELOCITY DUCTWORK.

6. QUALITY ASSURANCE

6.1 ALL INSULATION, JACKETS, ADHESIVES, MASTICS, ETC UTILIZED IN THE FABRICATION OF THE DUCT INSULATION AND FINISH SHALL HAVE A FLAME SPREAD RATING MAXIMUM OF 25 AND THE SMOKE DEVELOPED CLASSIFICATION MAXIMUM OF 50.

6.2 INSULATION THICKNESS AND INSULATING VALUES SHALL BE IN ACCORDANCE WITH CURRENT ASHRAE 90.1.

6.3 APPLY EXTERNAL INSULATION TO DUCTWORK ONLY AFTER ALL TESTS HAVE BEEN MADE AND SYSTEMS ACCEPTED BY THE CONSTRUCTION MANAGER AS AIRTIGHT.

6.4 APPLY INSULATION AND INSULATION FINISH IN A WORKMANLIKE MANNER SO THAT THE FINISHED PRODUCT IS UNIFORM, SMOOTH IN FINISH, PLEASING TO THE EYE AND WITH LONGITUDINAL SEAMS CONCEALED FROM VIEW. APPLY DUCTWORK INSULATION MATERIALS, ACCESSORIES AND FINISHES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

6.5 INSULATION AND VAPOUR BARRIER SHALL BE CONTINUOUS THROUGH ALL NON–RATED SEPARATIONS.

6.6 TERMINATE INSULATION SHORT OF ALL CONTROL, SMOKE AND FIRE DAMPERS SO AS NOT TO INTERFERE WITH THEIR OPERATION (WHERE APPLICABLE).

6.7 INSULATION SHALL BE ADHERED TO THE DUCT WITH 100 MM (4") WIDE STRIPS OF ADHESIVE AROUND THE DUCT AT APPROXIMATELY 300 MM (12") CENTRES.

6.8 INSULATION SHALL BE WRAPPED AROUND THE DUCT WITH ALL EDGES BUTTED. THE JACKET SHALL OVERLAP 50 MM (2") AT ALL JOINTS AND SHALL BE STAPLED USING FLARE TYPE STAPLES AT MAXIMUM 150MM (6") CENTRES.

6.9 ALL JOINTS, SEAMS, BREAKS, PINHEADS, STAPLES, ETC., IN THE JACKET SHALL BE SEALED WITH 75 MM (3") WIDE VAPOUR BARRIER RFFRK TAPE.

6.10 DUCT SEALANT IS NOT LIMITED TO MATERIALS OF ADHESIVE OR MASTIC NATURE BUT IS INCLUSIVE OF TAPES AND COMBINATIONS OF WOVEN FABRIC STRIPS AND MASTICS.

7. INSULATION MATERIALS

7.1 FLEXIBLE GLASS FIBRE: ASTM C553 AND ASTM C1290; COMMERCIAL GRADE; 'K' VALUE OF 0.25 AT 75 DEGREES F; 1.5 LB/CU FT MINIMUM DENSITY; 0.002 INCH FOIL SCRIM KRAFT FACING FOR AIR DUCTS.

7.2 DUCTLINER (USED IN RETURN AIR PLENUM BOOTS): FLEXIBLE GLASS FIBER, ASTM C1071; TYPE II, 'K' VALUE OF 0.23 AT 75 DEGREES F; 3.0 LB/CU FT MINIMUM DENSITY; COATING AIR SIDE FOR MAXIMUM 4,000 FEET PER MINUTE AIR VELOCITY. THE AIRSTREAM SURFACE MUST BE PROTECTED WITH A DURABLE ACRYLIC SURFACE COATING SPECIFICALLY FORMULATED TO:

7.3 FIRE RATED GREASE DUCT INSULATION (HIGH TEMPERATURE FLEXIBLE BLANKET): 1–1/2–INCH THICK REFRACTORY GRADE FIBROUS FIRE BARRIER MATERIAL WITH MINIMUM SERVICE TEMPERATURE DESIGN OF 2,000 DEGREES F; ALUMINUM FOIL LAMINATED ON BOTH SIDES; WITH A MINIMUM 'K' VALUE OF 0.25 AND A MINIMUM DENSITY OF 6 LBS/CU FT; CONTAINING NO ASBESTOS. LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) UL TO MEET ASTM E 2336, ASTM E119, AND WITH FLAME SPREAD/SMOKE MINIMUM RATING OF 25 / 50 WHEN TESTED AS PER ASTM E84/UL 723.

7.4 EXPOSED OUTDOOR DUCT INSULATION (EXPOSED TO THE ELEMENTS): 1 INCH THICK MATERIAL THAT HAS A SERVICE TEMPERATURE RANGE FROM –60 DEGREES F TO 180 DEGREES F. THIS OUTDOOR DUCT INSULATION MEETS ASTM C 177 OR C 518 AND SHALL HAVE MINIMUM 'K' VALUE OF 0.27 BTU–IN. / HR–FT2– DEGREES F AT MINIMUM DENSITY MEASUREMENT OF 3 LB/CU FT. THE INSULATION AND OUTSIDE SURFACE MUST BE PROTECTED WITH A WHITE THERMO PLASTIC RUBBER MEMBRANE FORMULATED TO BE RESISTANT TO UV, ACID RAIN, PHYSICAL ELEMENTS FROM OUTDOOR WEATHER. DUCT SHALL NOT BE PRESSURIZED UNTIL SEALANT HAS TIME TO CURE.

7.5 INSULATION ON EXPOSED OUTDOOR AIR DUCTWORK SHALL HAVE RD/3 PREMIUM QUALITY FINISH. APPLY TREATED CANVAS JACKET OVER INSULATION USING FABRIC ADHESIVE. FINISH CANVAS JACKET WITH ONE (1) COAT OF FABRIC COATING. INSULATION MAY BE PAINTED TO MATCH THE FINISHED CEILING.

8. VIBRATION ISOLATION

8.1 PROVIDE VIBRATION ISOLATION ON ALL MOTOR DRIVEN EQUIPMENT WITH MOTORS OF 0.37KW (0.5HP) AND GREATER POWER OUTLET AND ON PIPING AND DUCTWORK AS SPECIFIED. WHERE EQUIPMENT IS INTERNALLY ISOLATED BY THE MANUFACTURER, EXTERNAL ISOLATION IS NOT REQUIRED.

8.2 PROVIDE NEOPRENE GROMMETS AT THE SUPPORT POINTS.

8.3 ALL FAN CONNECTIONS TO DUCTS OR PLENUMS SHALL BE MADE WITH DOUBLE COATED NEOPRENE FLEXIBLE CONNECTIONS, DURO DYNE GRIP–LOCK NEOPRENE. CONNECTIONS SHALL BE 150 MM (6") LONG, INSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS.

8.4 BOLT ALL EQUIPMENT TO THE STRUCTURE. DO NOT BRIDGE ISOLATION ELEMENTS.

8.5 INSTALLATION OF RESTRAINT SYSTEMS AND FASTENING METHODS USED SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS.

9. HVAC EQUIPMENT – GAS FIRED ROOF TOP UNIT

9.1 REFER TO DRAWING M600 FOR EQUIPMENT SCHEDULE INCLUDING CAPACITIES AND APPROVED MANUFACTURERS.

9.2 FACTORY ASSEMBLED AND TESTED, CONSISTING OF COMPRESSORS, CONDENSERS, EVAPORATOR COILS, FANS, REFRIGERATION, AND TEMPERATURE CONTROLS. PROVIDE FILTERS AND DAMPERS.

9.3 EVAPORATOR FANS: BELT OR DIRECT DRIVEN, FORWARD CURVED CENTRIFUGAL.

9.4 EXHAUST/RELIEF FANS: DIRECT DRIVE, FORWARD CURVED CENTRIFUGAL OR PROPELLER.

9.5 CONDENSER FANS: DIRECT DRIVE PROPELLER.

9.6 REFRIGERANT COILS: ALUMINUM FINS AND COPPER COIL.

9.7 ECONOMIZER: TO BE PROVIDED ON ALL ROOF TOP UNITS.

9.8 BAROMETRIC RELIF DAMPER TO BE PROVIDED

9.9 SMOKE DETECTOR WITH REMOTE KEYED ANNUNCIATOR/RESET

9.10 PROVIDE MERV–8 FILTERS PRIOR TO PROJECT TURN OVER.

9.11 HAIL GUARD TO BE PROVIDED

9.12 PROVIDE ROOF CURB SIZED TO ACCOMMODATE THE SPECIFIED UNIT.

9.13 PROVIDE CONDENSATE PIPING AS SPECIFIED IN SECTION 230505.

9.14 CONTROL WIRING TO BE PROVIDED FROM EQUIPMENT TO TERMINATION POINT. GRIDPOINT SENSOR TO BE PROVIDED BY CHIPOTLE AND INSTALLED BY THE CONTRACTOR AS SPECIFIED ON THE DRAWINGS.

10. DAMPERS – VOLUME CONTROL DAMPER

10.1 FACTORY FABRICATED VOLUME CONTROL DAMPER, COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES. SINGLE BLADE AND MULTI–BLADE OPPOSED BLADE, STANDARD LEAKAGE RATING AND SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS.

INSTALLATION OF PIPEWORK

11. REFRIGERANT PIPING

11.1. REFRIGERANT PIPING SHALL BE SUPPLIED AND INSTALLED BY AN EXPERIENCED, QUALIFIED, AND "LICENSED" REFRIGERATION CONTRACTOR.

11.2. REFRIGERANT PIPING SHALL BE REFRIGERANT GRADE COPPER ASTM B88 TYPE "L". INSTALL TO CSA STANDARDS. B–51 AND B–52 MECHANICAL REFRIGERATION CODE. CONFIRMATION TO THESE REQUIREMENTS AND THOSE OF REGULATING AUTHORITIES REQUIRES THAT THE APPLICABLE REQUIREMENTS FOR BRAZING PROCEDURES, QUALITY CONTROL AND OTHER RELATED REQUIREMENTS SHALL BE FOLLOWED.

11.3. THE SYSTEM PIPING SCHEMATIC SHALL BE SUBMITTED AND APPROVED BY THE ORIGINAL EQUIPMENT MANUFACTURER AND THE ENGINEER PRIOR TO INSTALLATION. PROVIDE NEW SOLENOID AND THERMOSTATIC VALVES FOR EACH OF THE SIX CIRCUITS OF THE EXISTING EVAPORATOR COIL

11.4. ALL SYSTEMS SHALL HAVE PROVISIONS TO HANDLE SAFELY THE REFRIGERANT CHARGE FOR SERVICING PURPOSES WITHOUT VENTING THE CHARGE TO ATMOSPHERE. THIS MAY INCLUDE PROPERLY LOCATED STOP VALVES, LIQUID TRANSFER VALVES AND REFRIGERANT STORAGE TANKS FOR THE SAFE TRANSFER, DISCHARGE AND DISPOSAL OF THE CHARGE WITHOUT VENTING THE CHARGE TO THE ATMOSPHERE.

11.5. PROVIDE STOP VALVES AT THE LOCATIONS SHOWN ON THE PIPING SCHEMATIC.

11.6. REFRIGERANT LINES CROSSING AN OPEN SPACE SHALL BE NOT LESS THAN 7.5 FT, (2.3 M) ABOVE THE FLOOR.

11.7. SUPPORT PIPING ON C BLOCK SUPPORTS ON THE ROOF.

11.8. PRESSURE TEST PIPING TO 1.5 TIMES WORKING PRESSURE. TEST SHALL BE WITNESSED BY THE ENGINEER AND THE SYSTEM DEMONSTRATED TO HOLD A VACUUM OF 100 MICRONS FOR A PERIOD OF 24 HOURS. WRITTEN ACCEPTANCE OF THIS REFRIGERANT TEST SHALL BE OBTAINED PRIOR TO CHARGING THE SYSTEM WITH REFRIGERANT.

11.9. START–UP AND COMMISSIONING OF THE REFRIGERATION SYSTEM SHALL BE EXECUTED IN THE PRESENCE OF THE FACTORY REPRESENTATIVE.

11.10. INSULATE SUCTION AND LIQUID LINES WITH ½" THICK, (12 MM), NEOPRENE FOAM (ARMAFLEX). EXPOSED PIPING ON ROOF SHALL BE INSULATED WITH 1" THICK, (25MM) AND COVERED WITH ALUMINIUM JACKET WITH ALL JOINTS SEALED WITH SILICONE SEALANT.

12. REFRIGERANT CHARGING

12.1. AFTER THE SYSTEM IS PROPERLY INSTALLED, LEAK TESTED AND EVACUATED, CHARGE THE SYSTEM WITH R–410A REFRIGERANT AS RECOMMENDED BY THE MANUFACTURER.

12.2. RUN CONDENSER (CHILLER) FOR 3 DAYS WITH BOTH CIRCUITS IN OPERATION. AT THE END OF 3 DAYS OPERATIONS, TAKE AN OIL SAMPLE FROM BOTH CIRCUITS.

12.3. USING A REFRACTOMETER CHECK THE PERCENTAGE OF MINERAL OIL VERSUS SYNTHETIC OIL (USE WITH R–410A). IF THERE IS MORE THAN 5% MINERAL OIL, REMOVE EXISTING OIL AND CHANGE WITH NEW SYNTHETIC OIL.

12.4. REPEAT TEST WITH REFRACTOMETER AFTER 3 MORE DAYS OPERATION O UNIT WITH BOTH REFRIGERATION CIRCUIT UNTIL MINERAL OIL PERCENTAGE IS LESS THAN 5%.

13. CONDENSATE PIPING

13.1. CONDENSATE PIPING SHALL BE TYPE L COPPER OR PVC. INDOOR CONDENSATE PIPING INSTALLED IN OCCUPIED AREAS SHALL BE PRIMED AND PAINTED TO MATCH INDOOR WALL COLOUR. PROVIDE HANGERS SPACED NOT MORE THAN 1.2 METERS FOR REFRIGERANT AND CONDENSATE PIPING. WHERE COPPER IS USED, PROVIDE 12 MM THICK FLEXIBLE PIPE INSULATION WITH INTEGRAL VAPOUR BARRIER.

14. NATURAL GAS PIPING

14.1. CONTRACTOR TO OBTAIN ALL NECESSARY APPROVALS FOR THE GAS INSTALLATION. PROVIDE REPORTS AND APPROVALS TO CONSULTANT FOR REVIEW.

14.2. NATURAL GAS PIPING SHALL BE INSTALLED TO CAN/CSA B149.1, CAN/CSA B149.2 (CURRENT EDITION) AND TO ATCO GAS STANDARDS.

14.3. ALL PIPING SHALL BE STEEL PIPE SCHEDULE 40, NPS ½" TO 2" WITH SCREWED SEAMS.

14.4. PROVIDE LOCKABLE SHUT–OFF AT CONNECTION TO GAS FIRED EQUIPMENT.

14.5. PROVIDE APPROVED FLEXIBLE CONNECTORS AT POINT OF CONNECTION TO RTU.

14.6. INSTALL PIPING ON ROOF USING C–PORT RUBBER BASES, MINIMUM 1.8 M ON CENTRE.

14.7. PROVIDE LINE SIZE, EARTHQUAKE, NATURAL GAS SHUT OFF VALVE IN MAIN LINE FEEDING NEW EQUIPMENT OR IN LINE SERVING EACH INDIVIDUAL DEVICE/APPLIANCE.

15. PIPE ESCUTCHEONS

15.1. SUPPLY AND INSTALL CHROME PLATED ESCUTCHEON PLATES ON EXPOSED PIPING PASSING THROUGH WALLS, FLOORS AND CEILINGS IN FINISHED AREAS AND OUTDOORS. WHERE THE PENETRATION IS GREATER THAN 50 MM DIAM. PROVIDE SLEEVES THROUGH WALLS, FLOORS AND CEILING IN FINISHED AREAS. SLEEVES SHALL BE CONCENTRIC WITH PIPE.

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DESIGN BULLETIN: DB-03/ 2022

REVISION SCHEDULE

Rev	Date	Description	By
1	18/NOV/22	COORDINATION	PE
2	24/NOV/22	I.I. REVIEW	PE
3	06/DEC/22	BP	PE
4	18/JAN/23	TENDER	PE

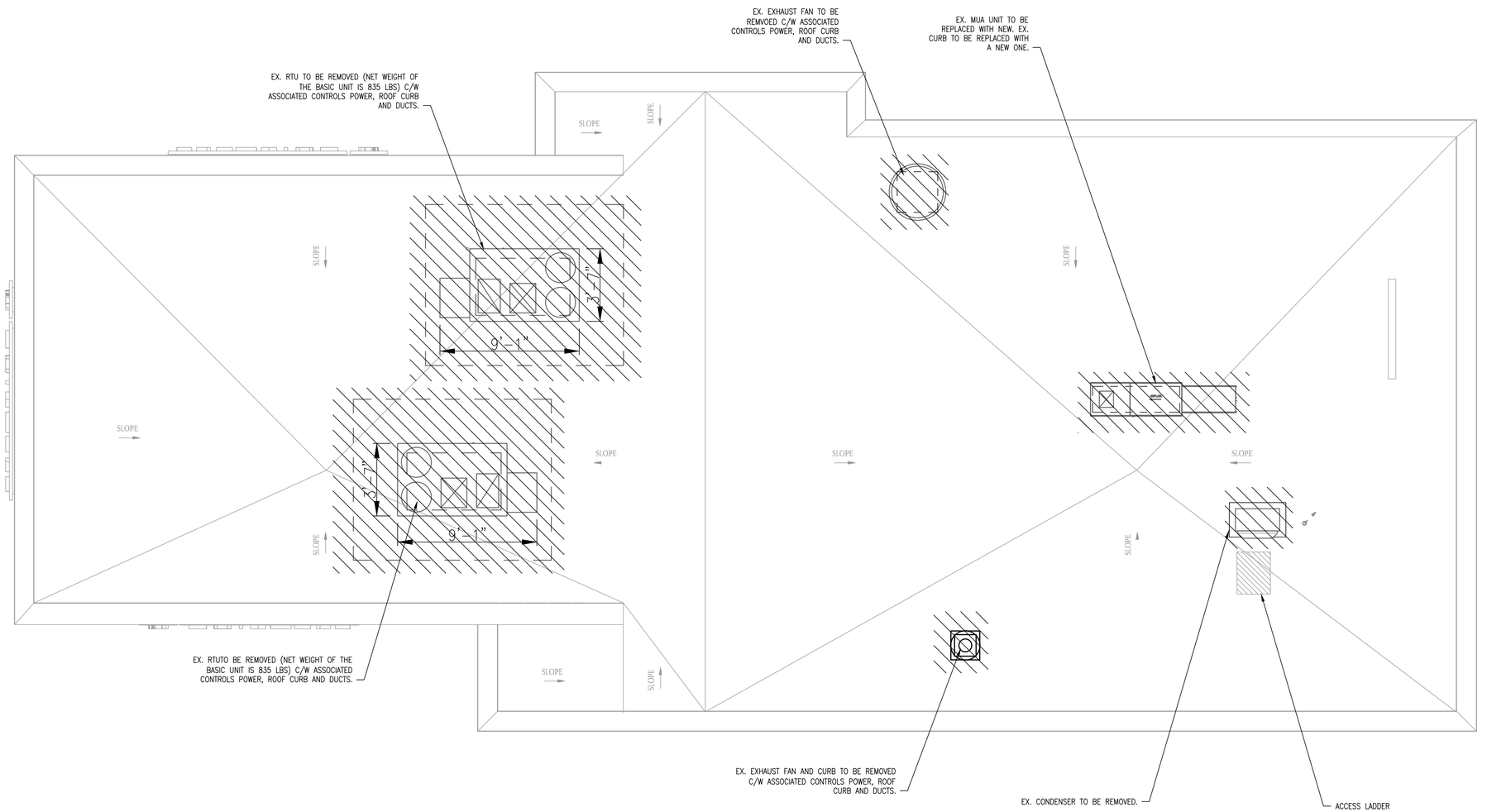
Drawn: Checked:

Project No.

Contents:

HVAC SPECIFICATIONS

M011



1 / M100 HVAC ROOF DEMO PLAN
SCALE: 1/4" = 1'-0"

Consultant:

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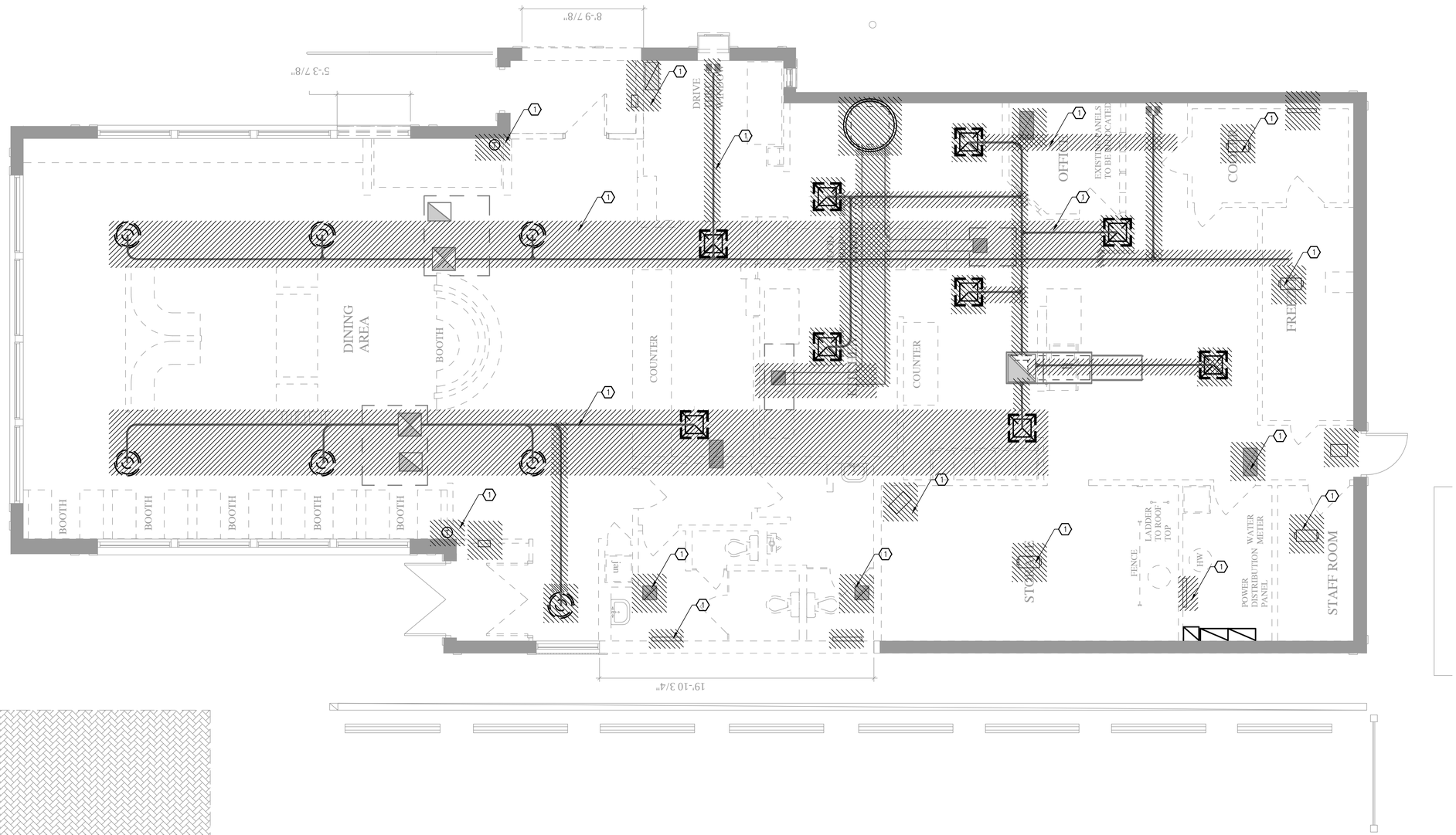
Contents:

HVAC ROOF DEMO PLAN

M100

DRAWING NOTES

1. EXISTING SUPPLY DIFFUSERS/ SUPPLY DUCTWORK / RTU / RETURN AIR GRILLES / RETURN DUCTWORK / EXHAUST GRILLES / EXHAUST DUCTWORK / EXHAUST HEATER / ELECTRIC BASEBOARD HEATER / ELECTRIC HEATER / ELECTRIC FORCE FLOW HEATER SHOWN HATCHED AND ASSOCIATED DUCTS TO BE REMOVED.



1 M101 RCP DEMO PLAN
SCALE: 1/4" = 1'-0"

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Drawn: Checked:

Project No.

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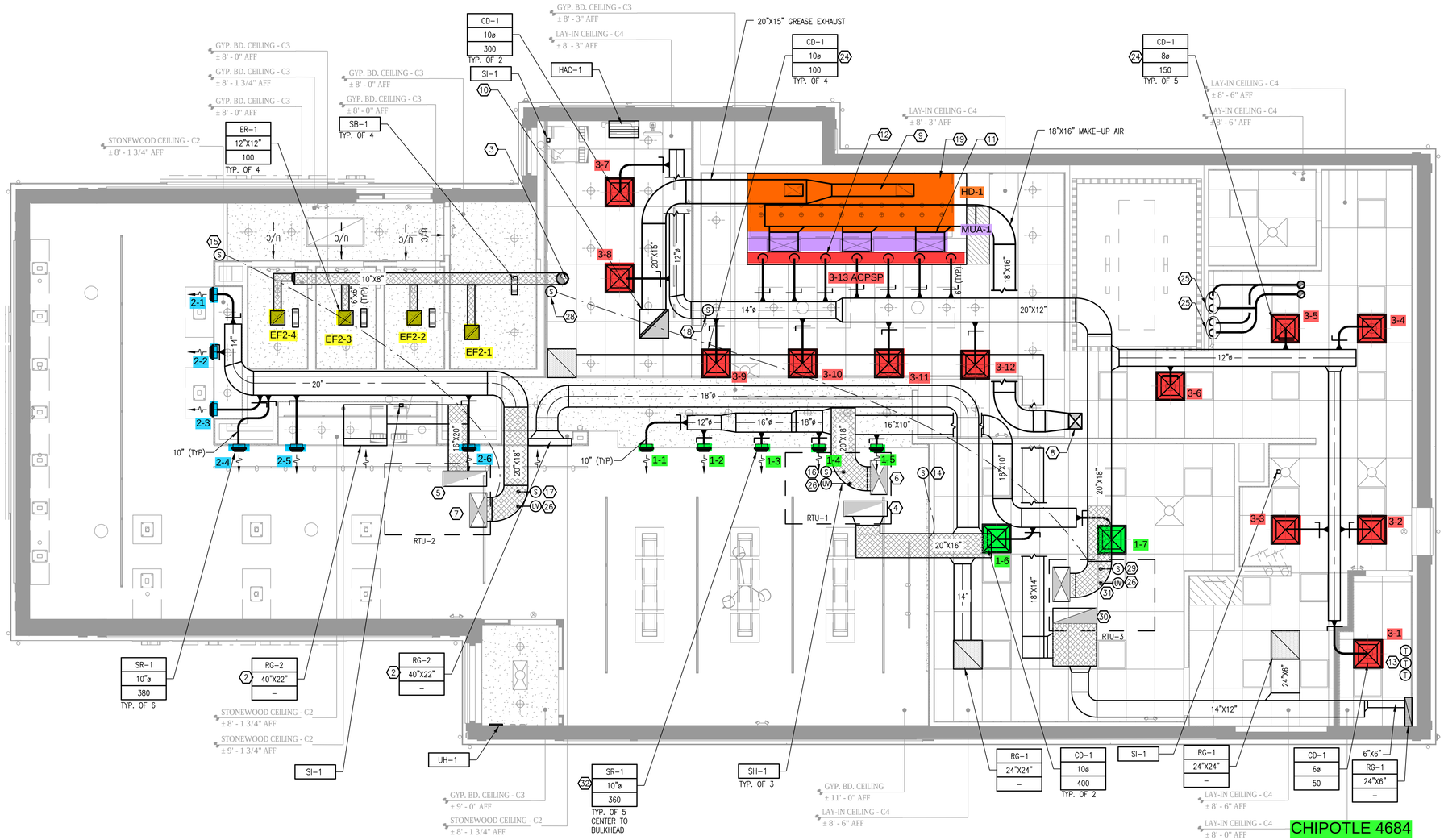
HVAC RCP DEMO PLAN

M101



1 M100 HVAC FLOOR PLAN
SCALE: 1/4" = 1'-0"

HVAC PLAN NOTES

1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION (TYP.)
2. INSTALL RETURN AIR GRILLE WITH SLOTS FACING UP TO ENSURE DUCT BEHIND THE GRILLE IS NOT VISIBLE. PAINT INSIDE OF THE DUCT BLACK.
3. EXHAUST DUCT UP THROUGH ROOF FROM EF-2
4. 20X20 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
5. 16X20 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
6. 20X20 (500X500) DUCT UP FROM BUILDING SUPPLY TO RTU-1 SUPPLY CONNECTION. TRANSITION IN ROOF CURB. BALANCE O/A TO 850CFM.
7. 20X20 (500X500) DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB. BALANCE O/A TO 680CFM.
8. 14X12 (350X300) DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
9. 10X15 (250X375) DUCTS UP FROM HOOD TO 20X15 (500X375) DUCT THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA-96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
10. 24"X24" (1000X1000) DUCT UP THROUGH ROOF TO EF-1.
11. 24X10 (300X250) DUCT DN. TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE (TYP.).
12. 8" (200mm) DIA. DUCT DN. TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE (TYP.). CAP UNUSED DUCT CONNECTIONS.
13. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 RTU-2, AND RTU-3 48" (1200mm) AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
14. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 60" (1500mm) AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
15. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" (1650mm) AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
16. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
17. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
18. INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 66" (1650mm) AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
19. INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2 AND 4/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20. RESERVED.
21. RESERVED.
22. RESERVED.
23. RESERVED.
24. PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
25. WATER HEATER INTAKE AND OFFSET AT HIGH LEVEL UP THROUGH ROOF.
26. INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
27. RESERVED.
28. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-3 AT THIS LOCATION 66" (1650mm) AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
29. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-3 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
30. 20X20 DUCT UP FOR TRANSITION TO RTU-3 RETURN CONNECTION IN ROOF CURB. RTU-3 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-3 OPERATION.
31. 20X20 (500X500) DUCT UP FROM BUILDING SUPPLY TO RTU-3 SUPPLY CONNECTION. TRANSITION IN ROOF CURB. BALANCE O/A CFM TO 150CFM.
32. ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7'AFF WITH NO DRAFTS FELT IN THE DINNING ROOM.

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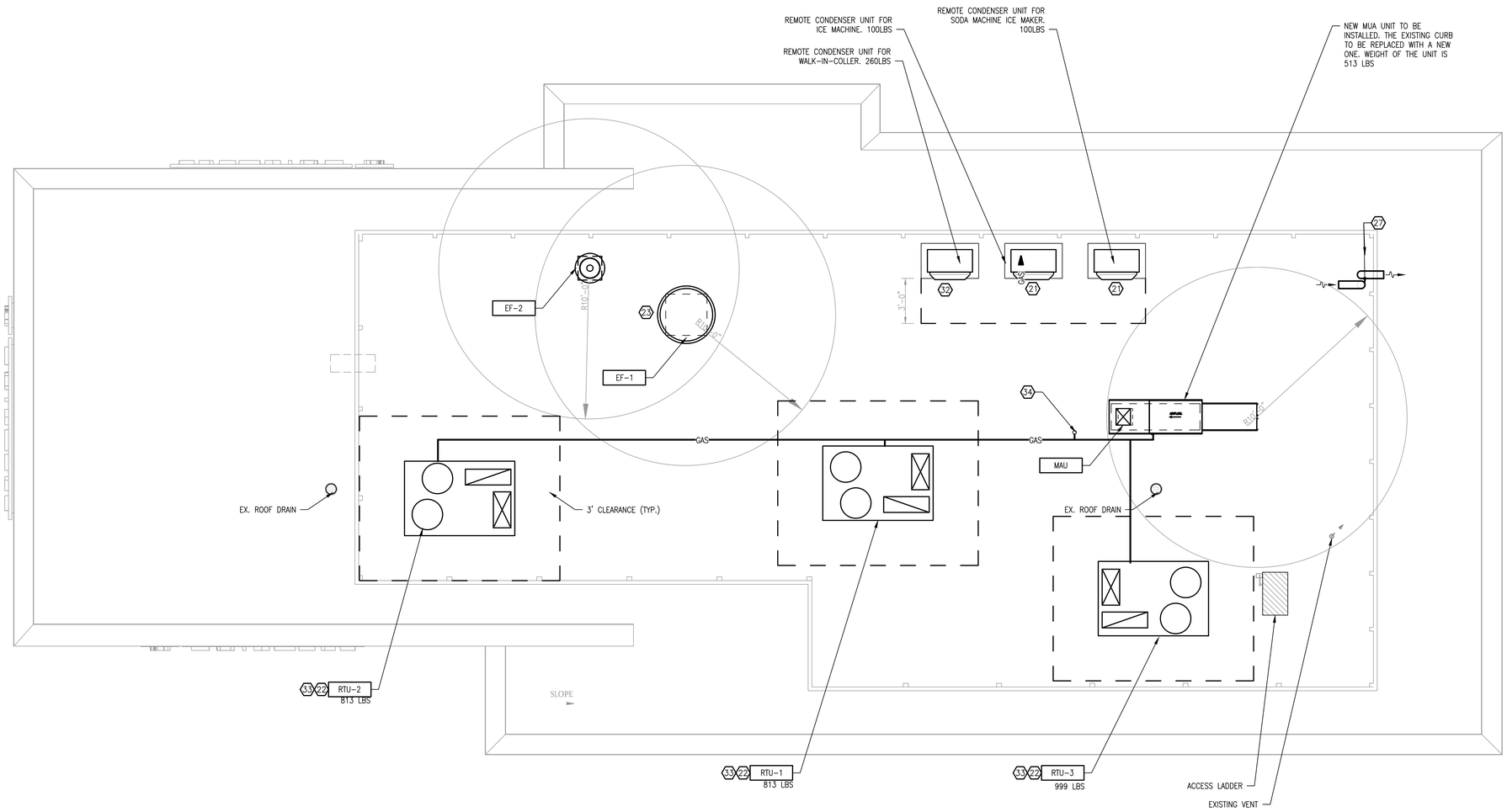
Contents:

HVAC PLAN

M200



1 M102 HVAC ROOF PLAN
SCALE: 1/4" = 1'-0"

HVAC PLAN NOTES

1. RESERVED
2. RESERVED
3. RESERVED
4. RESERVED
5. RESERVED
6. 26X14 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
7. 26X18 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
8. 16X16 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
9. 10X15 DUCTS UP FROM HOOD TO 20X15 DUCT THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA-96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
10. RESERVED
11. RESERVED
12. RESERVED
13. RESERVED
14. RESERVED
15. RESERVED
16. RESERVED
17. RESERVED
18. RESERVED
19. RESERVED
20. 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.
21. 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.
22. INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
23. INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
24. RESERVED
25. RESERVED
26. RESERVED
27. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
28. RESERVED.
29. RESERVED.
30. RESERVED.
31. RESERVED.
32. INSTALL REMOTE CONDENSER FOR SODA 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.
33. PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 9/M700.
34. GAS PIPE F/B, REFER TO DWG P200 FOR CONTINUATION.

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Contents:

HVAC ROOF NEW PLAN

M201

GRILLE AND DIFFUSER SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL NO	SPECIFICATION
BS-1	BATHROOM AIR PURIFICATION UNIT	N/A	STAINLESS STEEL	STAINLESS STEEL	SURFACE MTD	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	REFER TO ELECTRICAL DRAWINGS FOR CONNECTION.
CD-1	PERFORATED CEILING DIFFUSER	24"X24"	ALUMINUM	WHITE	LAY-IN	GC	GC	NAILOR	4320A TYPE L	PERFORATED SUPPLY, EXTRUDED ALUMINUM, LAY-IN STYLE FRAME, PROVIDE WITH INTEGRAL OBD.
SR-1	ADJUSTABLE TURBO NOZZLE	SEE DWGS	ALUMINUM	WHITE	WALL MTD.	GC	GC	AIR CONCEPTS	ANR-14	SURFACE MTD, PROVIDE WITH CONCEALED MOUNTING AND FACE ASSESSIBLE OBD.
ER-1	PERFORATED CEILING EXHAUST	12"X12"	ALUMINUM	WHITE	SURFACE MTD	GC	GC	NAILOR	330R TYPE	PERFORATED SUPPLY, EXTRUDED ALUMINUM FRAME, PROVIDE WITH INTEGRAL OBD.
RG-1	PERFORATED CEILING RETURN	SEE DWGS	ALUMINUM	WHITE	LAY-IN	GC	GC	NAILOR	4340RA	PERFORATED RETURN GRILLE WITH EXTRUDED FRAME

FAN SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	AIR FLOW (CFM)	E.S.P (IN WC)	RPM	MOTOR HP	POWER (V/PH/HZ)	WEIGHT (LBS)	SPECIFICATION
MAU-1	MAKE UP AIR UNIT	REFER TO CAPTIVE AIRE DRAWINGS		1950	0.5	2088	2	208/3/60	513	REFER TO CAPTIVE AIR DRAWINGS FOR SPECIFICATIONS AND UNIT DIMENSIONS.
EF-1	KITCHEN EXHAUST FAN	REFER TO CAPTIVE AIRE DRAWINGS		3200	1.5	902	3	208/3/60	304	REFER TO CAPTIVE AIR DRAWINGS FOR SPECIFICATIONS AND UNIT DIMENSIONS.
EF-2	WASHROOM EXHAUST FAN	REFER TO CAPTIVE AIRE DRAWINGS		400	0.5	1455	0.25	120/1/60	49	REFER TO CAPTIVE AIR DRAWINGS FOR SPECIFICATIONS AND UNIT DIMENSIONS.

HOOD SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	LENGTH	EXHAUST (CFM)	MAKE UP AIR (CFM)	SUPPLY (CFM)	DESIGN CFM/FT	WEIGHT (LBS)	SPECIFICATION
HD-1	KITCHEN EXHAUST HOOD	REFER TO CAPTIVE AIRE DRAWINGS		14'-3"	3200	1950	798	225	1046	REFER TO CAPTIVE AIR DRAWINGS FOR SPECIFICATIONS AND UNIT DIMENSIONS.

HEATED AIR CURTAIN SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	AIRFLOW (CFM)	HEATING OUTPUT (KW)	FLA (A)	LENGTH (INCHES)	POWER (V/PH/HZ)	WEIGHT (LBS)	SPECIFICATION
HAC-1	DRIVE THRU	QUIKSERV	QSV1025EJ-040-BK	645	3	16.1	25	208/1/60	39	QUIKSERV ELECTRICALLY HEATED AIR CURTAIN C/W 7 DAY PROGRAMMABLE THERMOSTAT. FOLLOW MAUFACTURER'S INSTALLATION RECOMMENDATIONS.

HVAC EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	AIR FLOW (CFM)	E.S.P (IN WG)	MCA	MOCP(A)	MOTOR HP	GAS HEATING (MBH)		NOMINAL TONNAGE	WEIGHT (LBS)	SPECIFICATION
									INPUT	OUTPUT			
RTU-1	ROOFTOP UNIT	CARRIER	48FCEM07A3M5-6W4C0	2600	0.80	30	45		151.2	124.3	7.5	999	COOLING PERFORMANCE: CONDERSER ENTERING AIR DB: 83F EVAPORATOR ENTERING AIR DB: 77.1F EVAPORATOR ENTERING AIR WB: 63.4F EVAPORATOR LEAVING AIR DB: 53.6F EVAPORATOR LEAVING AIR WB: 51.5F GROSS SENSIBLE CAPACITY: 58.1MBH HEATING PERFORMANCE: ENTERING AIR TEMP: 57.1F LEAVING AIR TAMP: 107.5F
RTU-2			48FCEM07A3M5-6W4C0	2267	0.80	40	50		151.2	124.3	7.5	999	COOLING PERFORMANCE: CONDERSER ENTERING AIR DB: 83F EVAPORATOR ENTERING AIR DB: 77.3F EVAPORATOR ENTERING AIR WB: 63.3F EVAPORATOR LEAVING AIR DB: 51.8F EVAPORATOR LEAVING AIR WB: 49.8F GROSS SENSIBLE CAPACITY: 54.72MBH HEATING PERFORMANCE: ENTERING AIR TEMP: 55.2F LEAVING AIR TAMP: 113.0F
RTU-3			48FCEM08A3M5-6W4C0	2400	0.80	40	50		151.2	124.3	7.5	999	COOLING PERFORMANCE: CONDERSER ENTERING AIR DB: 83F EVAPORATOR ENTERING AIR DB: 77.2F EVAPORATOR ENTERING AIR WB: 63.3F EVAPORATOR LEAVING AIR DB: 52.6F EVAPORATOR LEAVING AIR WB: 50.5F GROSS SENSIBLE CAPACITY: 56.06MBH HEATING PERFORMANCE: ENTERING AIR TEMP: 56F LEAVING AIR TAMP: 110.6F

FORCE FLOW UNIT HEATER SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	AIRFLOW (CFM)	HEATING OUTPUT (KW)	FLA (A)	BTU/HR	POWER (V/PH/HZ)	WEIGHT (LBS)	SPECIFICATION
UH-1	VESTIBULE UNIT HEATER	QMARK MARLEY	CWH1202DSF	65	1.5	7.2	5120	208/1/60	12	

SANITIZING QUIPMENT SCHEDULE

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

1 M600 HVAC SCHEDULE
SCALE: NTS

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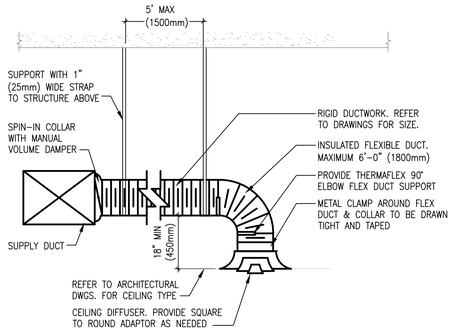
Contents:

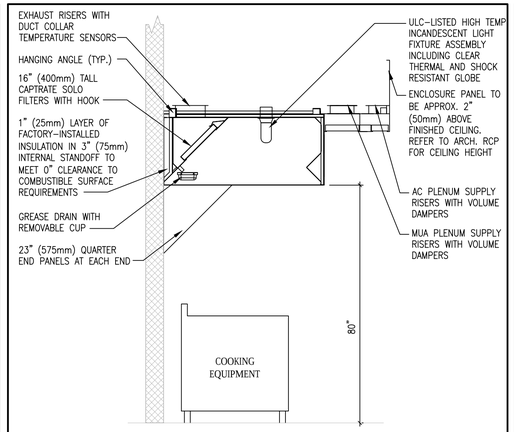
HVAC SCHEDULES

M600



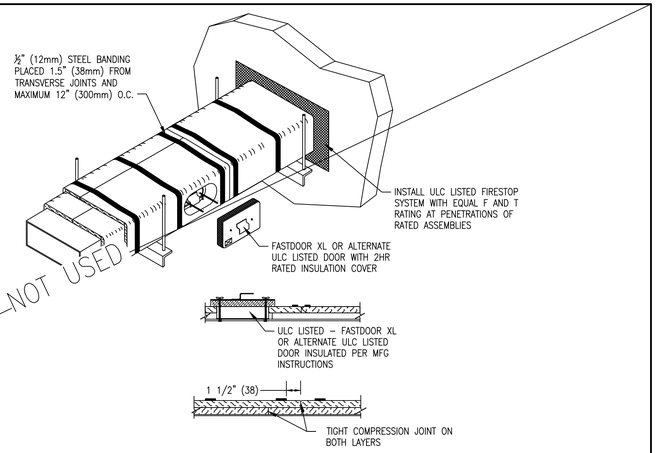
NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.
2. PROVIDE SEISMIC RESTRAINT CONNECTIONS ON ALL DIFFUSERS INSTALLED IN SEISMIC ZONES.

1 M700 DIFFUSER CONNECTION DETAIL
SCALE: NTS

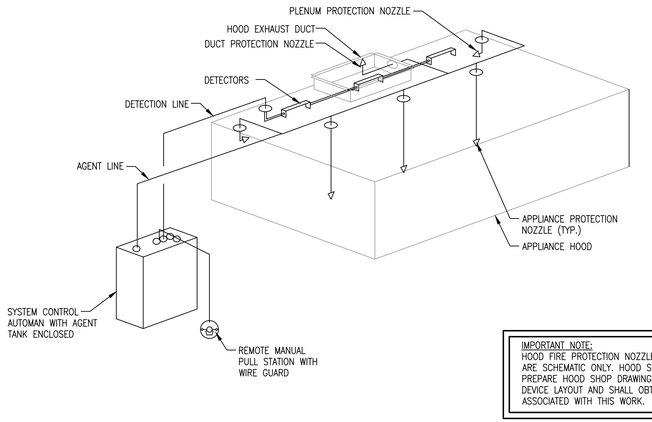


2 M700 HOOD SECTION
SCALE: NTS

NOTE:
1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND ULC LISTED TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1HR OR 2HR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E814 (ULC 1479).
2. COMPLIANT WITH NFPA 96.
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT.
5. INSTALL ULC LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR ULC LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20FT (6m) ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM ⅜" (9mm) DIAMETER AND SUPPORTS ARE MINIMUM 2"X2"X¼" (50mmX50mmX3mm) STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONLY THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION OF THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND ULC LISTINGS.



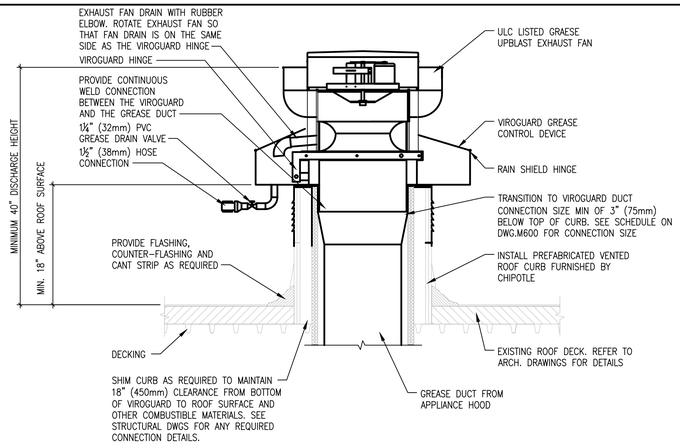
3 M700 FIRE RATED DUCTWRAP DETAIL
SCALE: NTS



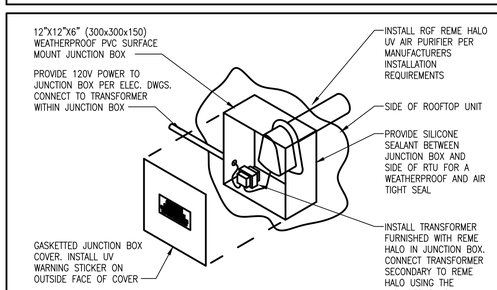
IMPORTANT NOTE:
HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

4 M700 FIRE SUPPRESSION SCHEMATIC
SCALE: NTS

NOTE:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.
2. HINGE FAN SO IT TIPS BACK TOWARD FAN DRAIN AND TOWARD VIROGUARD DRAIN.

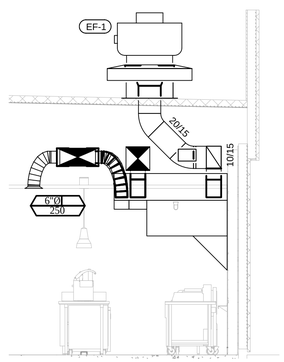


5 M700 GREASE EXHAUST FAN
SCALE: NTS



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

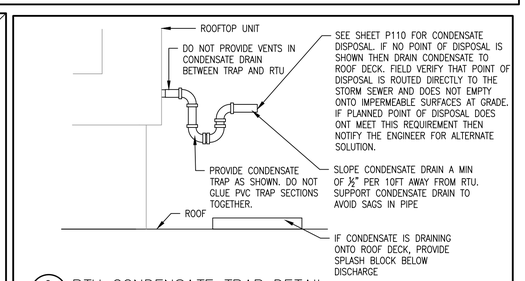
6 M700 UV AIR PURIFIER INSTALLATION
SCALE: NTS



7 M700 DUCT SECTION AT HOOD
SCALE: NTS

NOT USED

8 M700 HOOD EXHAUST ISOMETRIC
SCALE: NTS



9 M700 RTU CONDENSATE TRAP DETAIL
SCALE: NTS

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STORE NO.: 52-4684
CMG PROTO INLINE ENDCAP/ URBAN/
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2791 32 AVE. NE,
CALGARY, AB.
CANADA

DESIGN BULLETIN: DB-03/ 2022

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1	18/NOV/22	COORDINATION	PE
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4	18/JAN/23	TENDER	PE

Drawn: Checked:

Project No.

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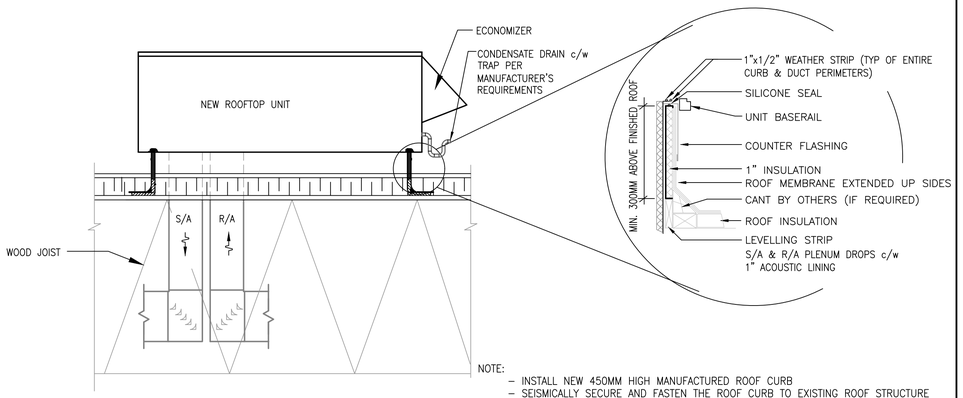
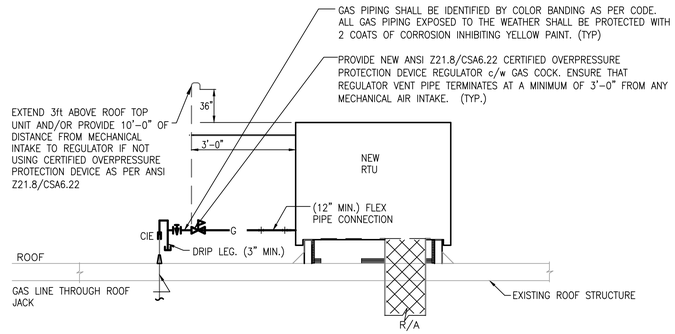
HVAC DETAILS
(1 OF 2)

M700



NOTE:
- INSTALL NEW 450MM HIGH MANUFACTURED ROOF CURB
- SEISMICALLY SECURE AND FASTEN THE ROOF CURB TO EXISTING ROOF STRUCTURE
- REPAIR AND FIX EXISTING ROOFING INCLUDING INSULATION, ROOF MEMBRANE AND MATCH EXISTING ROOFING DETAILS AND RCABC REQUIREMENTS

1 / M701 NEW ROOFTOP CURB MOUNTING DETAIL
SCALE: NTS



2 / M701 NEW ROOFTOP GAS CONNECTION DETAIL
SCALE: NTS

Consultant:

STUDIO INTERSEKT
980 Fraser Drive, Unit 110, Burlington, ON L7L 5P5
www.intersekt.ca
905-582-0650

Project No: 2022469

Prism ENGINEERING
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320 – 3605 Gilmore Way
Burnaby, B.C. V5G 4X5
Tel: 604-298-4858
Fax: 604-298-8143

CHIPOTLE MEXICAN GRILL

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NEWPORT BEACH, CA, 92660
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HVAC DETAILS
(2 OF 2)

M700

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#5707860

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

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	10	16"	16"	85% SEE FILTER SPEC	10	L55 SERIES E26	NO	RIGHT	12"x54"x24"	ANSUL R-102	3.0/3.0	SC-311110MA	1 LIGHT 1 FAN	YES	1046 LBS

HOOD OPTIONS

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

PERFORATED SUPPLY PLENUM(S)

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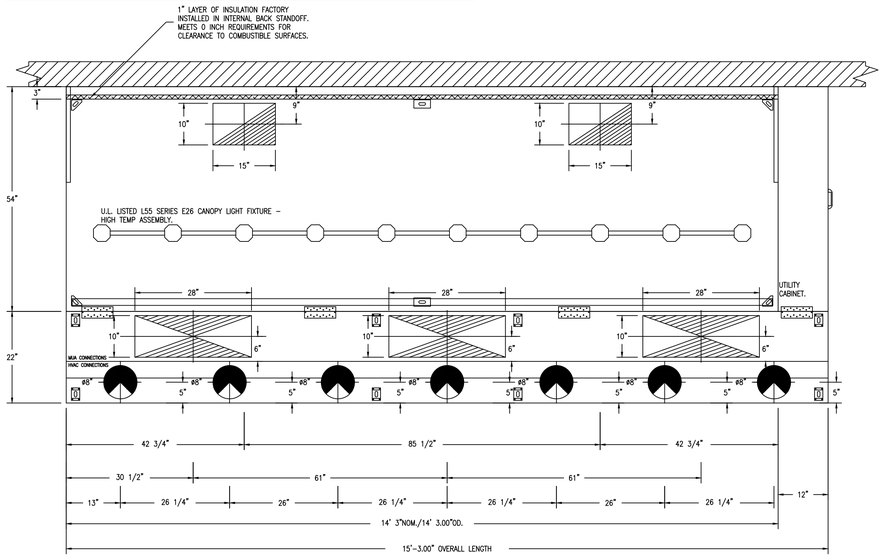
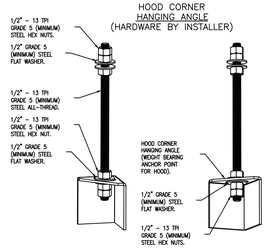


PLAN VIEW - HOOD #1
14' 3.00" LONG 5424ND-2-ACPSP-F
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

HOOD CORNER HANGING ANGLE
(HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

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

SPECIFICATION: CAPTRATE GREASE-STOP 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.

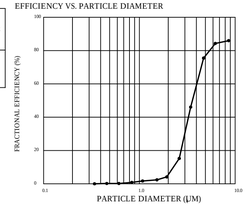
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

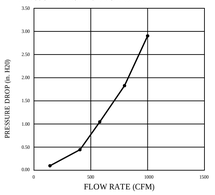
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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.

EFFICIENCY VS. PARTICLE DIAMETER

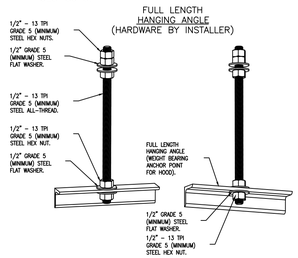


PRESSURE DROP VS. FLOW RATE



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

FULL LENGTH HANGING ANGLE
(HARDWARE BY INSTALLER)



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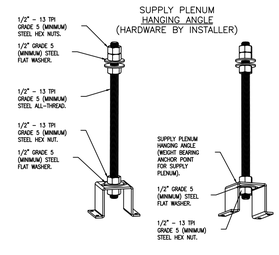
SUPPLY PLENUM HANGING ANGLE
(HARDWARE BY INSTALLER)



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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

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CAPTIVEAIRE
Highwoods Group
4641 Paragon Park Rd. Raleigh, NC. 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg40@captiveaire.com
www.captiveaire.com

CHIPOTLE SUNRIDGE #4684
CALGARY, AB. T1Y 2G1

DATE: 11/17/2022

DWG.#: 5707860

DRAWN BY: JMB-40

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

MASTER DRAWING

SHEET NO. 1

Consultant:

STUDIO INTERSEKT
980 Fraser Drive, Unit 110, Burlington, ON L7L 5P5
www.intersekt.ca
905-580-0650

Project No: 2022469

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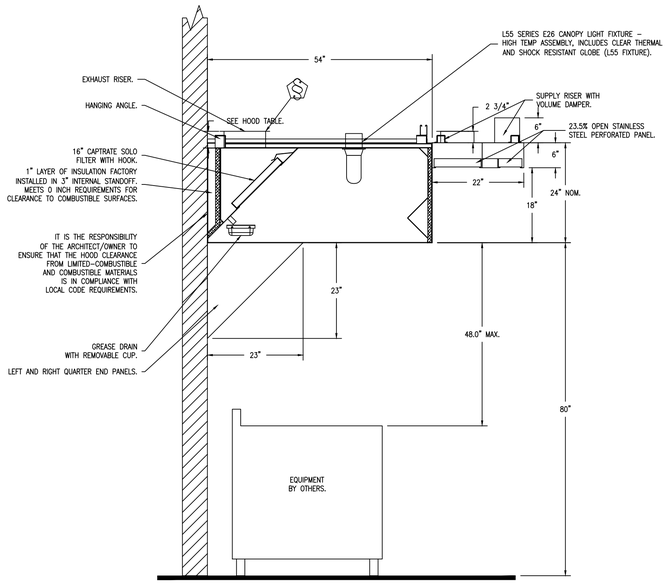
KITCHEN EXHAUST SYSTEM DETAILS

M800



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

FIRE SYSTEM INFORMATION – JOB#5707860

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

GAS VALVE(S)

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

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS 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 CAS 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, CAS 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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DATE: 11/17/2022

DWG.#: 5707860

DRAWN BY: JMB-40

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

MASTER DRAWING

SHEET NO. 2

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905-582-0650

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KITCHEN EXHAUST SYSTEM DETAILS

M801

EXHAUST FAN INFORMATION – JOB#5707860

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	902	ODP,PREMIUM	3.000	1.7320	3	208	10.2	727 FPM	304	15.9
2	EF-2	1	DR12HFA	CAPTIVEAIRE	400	0.500	1455	TEAO-ECM	0.250	0.1210	1	115	2.9		49	8.1

MUA FAN INFORMATION – JOB#5707860

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
3	MAU-1	1	A1-D.250-15D	15MF-1-MOD	A1-D.250	1000	1950	0.500	2088	ODP,PREMIUM	2.000	1.2320	3	208	6.1	8.8A	15A	513	21.1

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
3	MAU-1	211966	195009	110°F	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
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	ECM WIRING PACKAGE – EXHAUST – MANUAL OR 0–10VDC REFERENCE SPEED CONTROL –MSC–(TELCO), CCW ROTATION
		1	I 12–BDD DAMPER
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	MOTORIZED BACKDRAFT DAMPER FOR A1–D HOUSING – MEETS AMCA CLASS 1A RATING
		1	LOW FIRE START
		1	INLET PRESSURE GAUGE, 0–35"
		1	MANIFOLD PRESSURE GAUGE, –5 TO 15" WC
		1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	UPSTREAM PILOT FOR SIZES 1–3
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
		1	2 YEAR PARTS WARRANTY

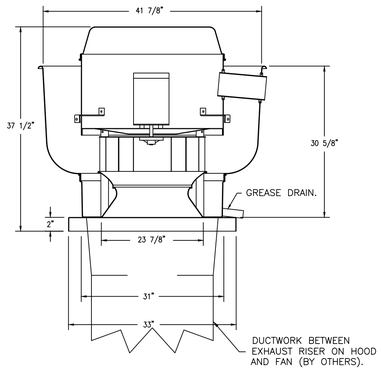
FAN ACCESSORIES

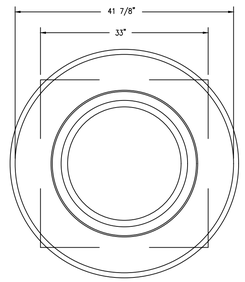
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2		YES					
3	MAU-1						YES	

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	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H ALONG LENGTH, RIGHT.
3	# 3	MAU-1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.

FAN #1 DU240HFA – EXHAUST FAN (EF-1)





TOP VIEW

FEATURES;

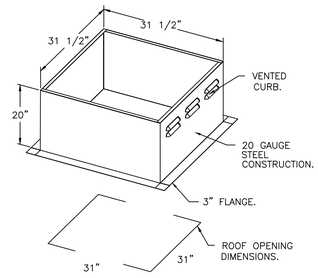
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC–S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT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

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

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

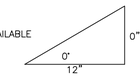
OPTIONS

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



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.



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CHIPOTLE SUNRIDGE #4684
CALGARY, AB, T1Y 2G1

DATE: 11/17/2022

DWG.#: 5707860

DRAWN BY: JMB–40

SCALE: 3/4" = 1'–0"

MASTER DRAWING

SHEET NO. 3

Consultant:

STUDIO INTERSEK+
980 Fraser Drive, Unit 110, Burlington, ON L7L 5P5
www.intersek.ca
905-582-0650

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CANADA

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REVISION SCHEDULE

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1	18/NOV/22	COORDINATION	PE
2	24/NOV/22	LL REVIEW	PE
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4	18/JAN/23	TENDER	PE

Drawn: Checked:

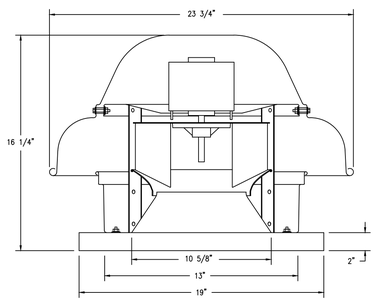
Project No.

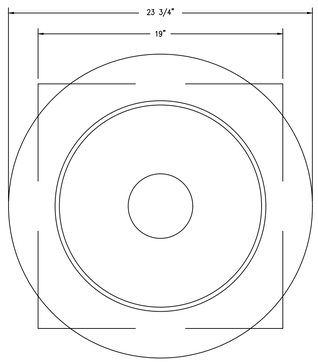
Contents:

KITCHEN EXHAUST SYSTEM DETAILS

M802

FAN #2 DR12HFA – EXHAUST FAN (EF-2)





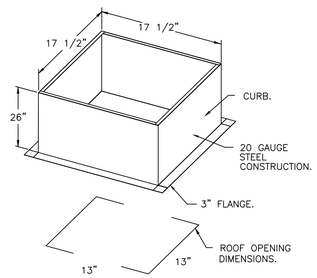
TOP VIEW

FEATURES:

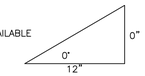
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.

OPTIONS

- ECM WIRING PACKAGE – EXHAUST – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL –MSC– (TELCO), CCW ROTATION.
- 1 12-BDD DAMPER.
- 2 YEAR PARTS WARRANTY.

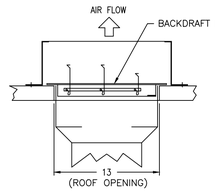


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

BACKDRAFT DAMPER INSTALLATION



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CHIPOTLE SUNRIDGE #4684
CALGARY, AB, T1Y 2G1

DATE: 11/17/2022

DWG.#: 5707860

DRAWN BY: JMB-40

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

MASTER DRAWING

SHEET NO. 4

Consultant:

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KITCHEN EXHAUST SYSTEM DETAILS

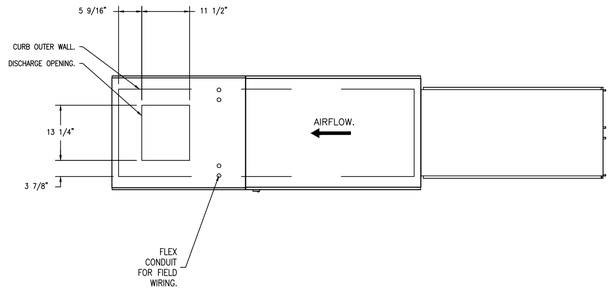
M803

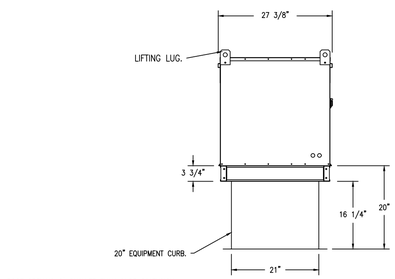
FAN #3 A1-0.250-15D - HEATER (MAU-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB120S ACTUATOR INCLUDED.
5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
8. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
9. PILOT LOCATED UPSTREAM OF FIRST REDUNDANT SOLENOID VALVE OF SIZE 1-3 MAX GAS PRESSURE OF 14" WC.
10. UNIT MOUNTED VFD FOR USE WITH ECPM03.
11. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
12. 2 YEAR PARTS WARRANTY

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

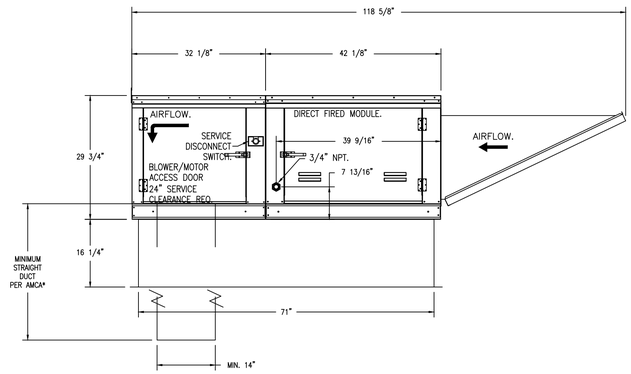
SUPPLY SIDE HEATER INFORMATION:

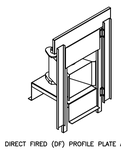
WINTER TEMPERATURE = -14°F. TEMP. RISE = 110°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 220499.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 239672.
OUTPUT BTUs AT ALTITUDE OF 3360 FT. = 195009.
INPUT BTUs AT ALTITUDE OF 3360 FT. = 211967.





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.: US6629529B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

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

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

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

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CHIPOTLE SUNRIDGE #4684
CALGARY, AB, T1Y 2G1

DATE: 11/17/2022
DWG.#: 5707860
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 5

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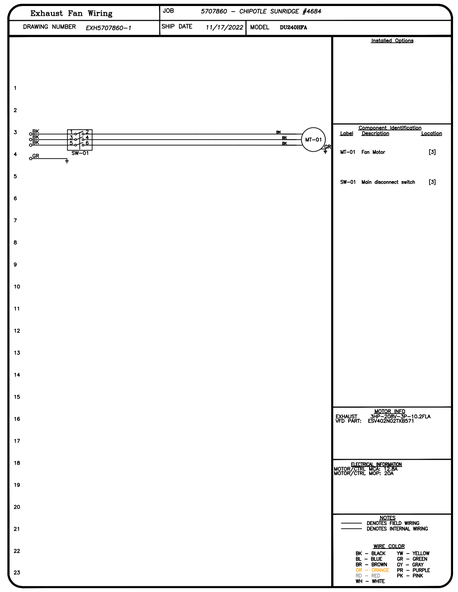

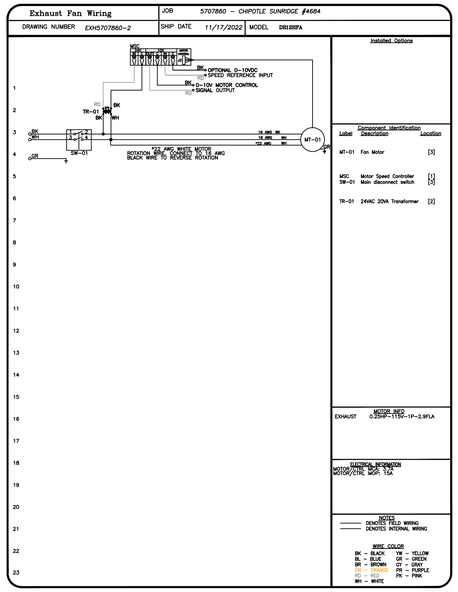

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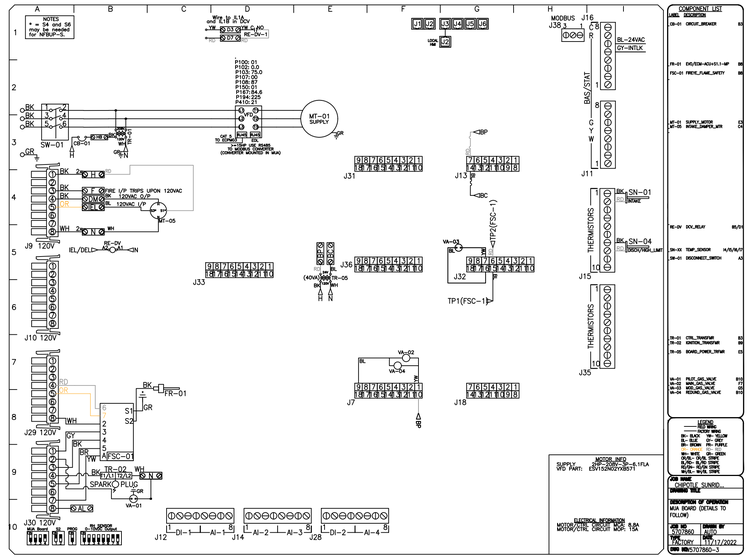

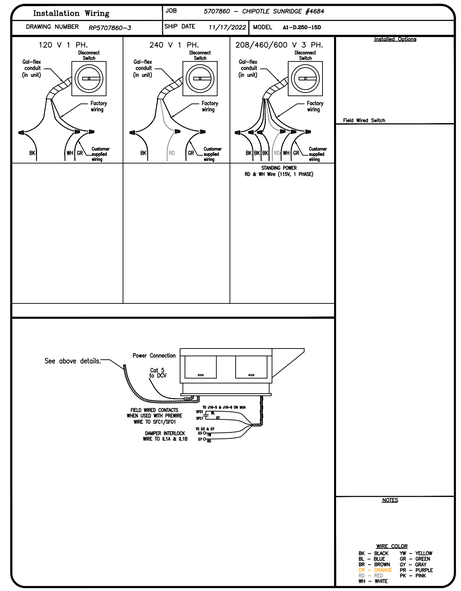

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DRAWN BY: JMB–40

SCALE: 3/4" = 1'–0"

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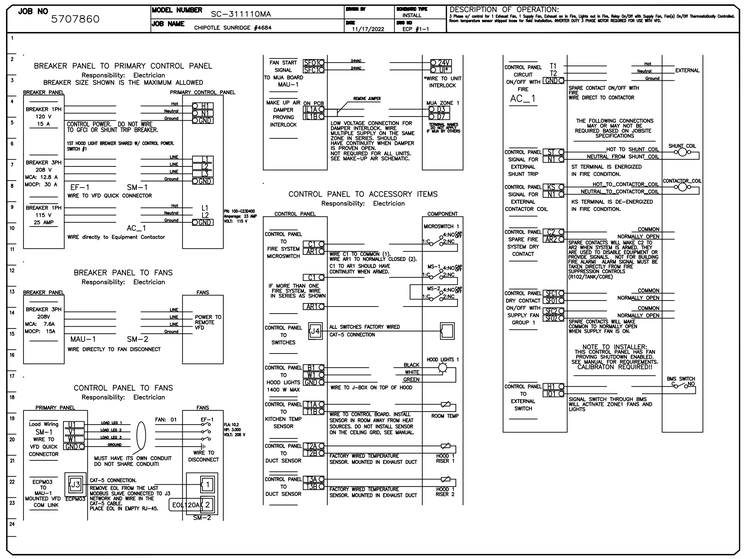
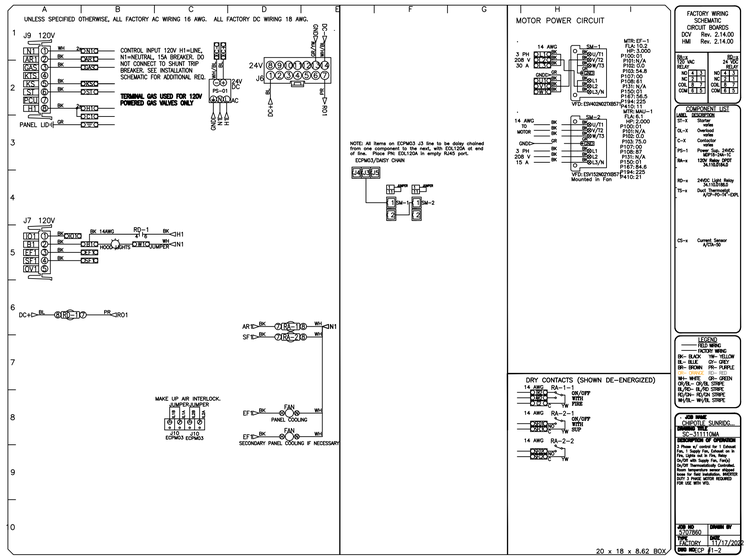
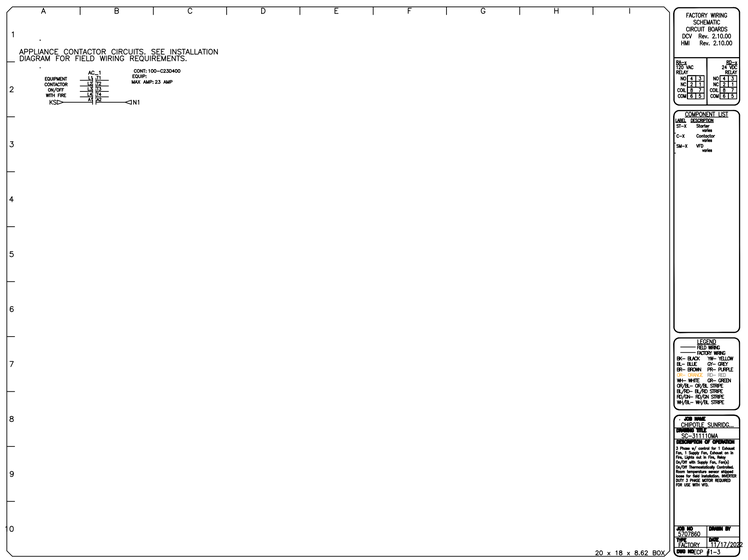
M805

ELECTRICAL PACKAGE – JOB#5707860

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	ϕ	HP	VOLT	FLA
1		SC-311110MA	UTILITY CABINET RIGHT	04 – UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF–1	EXHAUST	3	3.000	208	10.2
				HOOD # 1	1 FAN		MAU–1	SUPPLY	3	2.000	208	6.1







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