

LEGEND	
	EXISTING PIPING, DUCTWORK, EQUIPMENT
	NEW PIPING, DUCTWORK, EQUIPMENT
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RECIRCULATION
	HUNG SANITARY DRAIN
	VENT (PLUMBING)
	NATURAL GAS LINE
	CONDENSATE DRAIN
	PIPE CUT
	PIPE UP
	PIPE DOWN
	UNION
	CAP OR PLUG
	SHUT-OFF VALVE
	PRESSURE REDUCING VALVE OR REGULATOR
	SOLENOID VALVE
	GAS VALVE
	FLOOR DRAIN
	COMBINATION DRAIN
	HUB DRAIN
	TRAP
	CLEAN OUT
	GAS OR WATER METER
	HOSE BIBB
	WALL HYDRANT
	SQUARE DIFFUSER X - AIRFLOW (CFM) Y - NECK SIZE
	RETURN OR EXHAUST GRILLE
	GRAVITY BACKDRAFT DAMPER
	BALANCING DAMPER (SINGLE BLADE)
	SPIN ON CONNECTION COMPLETE WITH BALANCING DAMPER
	THERMOSTAT
	TEMPERATURE SENSOR
	DIRECTION OF AIR FLOW
	STARTER

DRAWING LIST	
M101	MECHANICAL SPECIFICATIONS & LEGEND
M201	PLUMBING PLAN - SANITARY DRAINAGE
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GENERAL MECHANICAL SPECIFICATIONS

SECTION 15A - GENERAL MECHANICAL CONDITIONS

- CONFORM TO INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS AND GENERAL REQUIREMENTS.
- THIS SECTION 15A SHALL APPLY TO ALL DIVISION 15 SECTIONS.
- BEFORE SUBMITTING TENDERS, EXAMINE SITE, EXISTING SERVICES AND ALL DRAWINGS. EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO DO SO.
- PROVIDE ALL LABOUR, MATERIALS AND EQUIPMENT NECESSARY TO EXECUTE THE WORK SHOWN AND DESCRIBED. INSTALLATION OF MATERIALS SHALL MEET ALL APPLICABLE PROVINCIAL, FEDERAL AND MUNICIPAL REQUIREMENTS.
- OBTAIN PERMITS AND PAY ALL FEES FOR WORK AND REQUIRED INSPECTIONS.
- MAINTAIN LIABILITY INSURANCE TO PROTECT OWNER AND THE CONTRACTOR FROM ANY AND ALL CLAIMS UNDER THE WORKER'S COMPENSATION ACT.
- THE DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. ALL MEASUREMENTS SHALL BE TAKEN FROM BUILDING SITE AND ARCHITECT'S DRAWINGS.
- ALL MATERIALS SHALL CONFORM TO CSA, HEPC AND CEC REQUIREMENTS AND SHALL BEAR CSA LABEL. GAS FIRED EQUIPMENT SHALL BEAR CGA LABEL.
- ALL EXISTING SERVICES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THIS CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY LINES, ETC. SO AS TO CARRY OUT THE ABOVE.
- TEMPORARY LIGHT, POWER AND WATER BY GENERAL CONTRACTOR.
- ALL CUTTING AND PATCHING FOR MECHANICAL WORK WILL BE THE RESPONSIBILITY OF THIS SUB-CONTRACTOR. HIRE SPECIALIZED TRADES TO DO THIS WORK.
- PROVIDE TEMPORARY BUILDINGS AND MATERIAL STORAGE AS REQUIRED AND BE RESPONSIBLE FOR ANY LOSS OR DAMAGE THERETO.
- SUBMIT SAMPLES OF MATERIALS WHEN REQUIRED.
- SUBMIT SHOP DRAWINGS FOR REVIEW COVERING MAJOR MANUFACTURED ITEMS, I.E. FANS, PLUMBING FIXTURES, AC UNITS, GAS HEATERS, HOT WATER TANK, GRILLES, DIFFUSERS, KITCHEN HOODS, FIRE SUPPRESSION SYSTEM, ETC.
- WHERE SUBSTITUTIONS ARE MADE FOR EQUIPMENT SPECIFIED BY NAME OR MODEL NUMBER, BE FULLY RESPONSIBLE FOR ADEQUATE AS WELL AS PHYSICAL FIT OF SUBSTITUTED MATERIALS.
- SUPPLY AND LOCATE ALL BASES, SUPPORTS, SLEEVES, CURBS, ETC. REQUIRED FOR THIS WORK. FLASHING BY ROOF TRADES. COUNTERFLASHING BY THIS CONTRACTOR.
- UNLESS OTHERWISE NOTED, ALL MOTORS 1/2 HP AND UNDER SHALL BE 115/1/60, MOTORS OVER 1/2 HP SHALL BE OF 3 PHASE VOLTAGE AVAILABLE ON PROJECT.
- SUPPLY PROPER STARTERS WITH OVERLOAD PROTECTION AND DISCONNECT SWITCHES FOR POWERED MECHANICAL EQUIPMENT AND HAND OVER TO ELECTRICAL CONTRACTOR FOR INSTALLATION. THIS DOES NOT INCLUDE ISOLATION SWITCHES, UNLESS STATED SPECIFICALLY.
- ALL POWER WIRING BY ELECTRICAL CONTRACTOR. CONTROL AND INTERLOCK WIRING BY MECHANICAL CONTRACTOR. CONTROL WIRING IN RETURN AIR CEILING SPACES SHALL BE FT-6 OR INSTALLED IN CONDUIT.
- SUPPLY AND INSTALL ALL NECESSARY ACCESS DOORS FOR MECHANICAL EQUIPMENT. WHERE NECESSARY, DOORS SHALL BE RATED TO SUIT FIRE ASSEMBLY RATING.
- DO ALL EXCAVATING AND BACKFILLING FOR MECHANICAL WORK.
 - BACKFILL FROM BOTTOM OF TRENCH, AROUND PIPE AND TO 24" (600MM) ABOVE PIPE SHALL BE CLEAN SAND, COMPACTED MECHANICALLY IN 6" (150MM) LAYERS TO 95% MODIFIED PROCTOR DENSITY. REMAINDER OF TRENCH SHALL BE BACKFILLED UTILIZING NATIVE MATERIAL COMPACTED IN 6" (150MM) LAYERS.
 - EXTERIOR BACKFILL ABOVE 24" (600MM) ABOVE PIPES IN AREAS TO HAVE CONCRETE WALKS OR ASPHALT PAVING SHALL BE D.H.O. GRANULAR CLASS B COMPACTED IN MAXIMUM 6" (150MM). REMAINDER OF TRENCH SHALL BE BACKFILLED UTILIZING NATIVE MATERIAL COMPACTED IN 6" (150MM) LAYERS.
 - EXTERIOR BACKFILL ABOVE 24" (600MM) ABOVE PIPES IN AREAS TO RECEIVE SOD OR SEED SHALL BE CLEAN FILLED, FREE FROM ORGANIC MATERIAL AND DEBRIS, PLACED IN MAXIMUM 12" (300MM) LAYERS.
 - ALL UNUSED EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
- PIPE HANGERS SHALL BE CLEVIS SPLIT TYPE WITH MILD STEEL RODS. FOR COPPER PIPE, USE PLASTIC INSERTS. USE OVERSIZED HANGERS AND SADDLES FOR COLD WATER PIPING. DO NOT SUPPORT EQUIPMENT, DUCTS OR PIPING FROM ROOF DECK WITHOUT PERMISSION FROM ARCHITECTS. SUPPLY AND INSTALL NECESSARY WIRING TO TRANSFER LOAD TO STRUCTURAL MEMBERS.
- ALL DISSIMILAR METAL (STEEL-COPPER, ETC.) SHALL BE SEPARATED USING GASKETS AND INSULATING WASHERS OR WATTS "DI-ELECTRIC" FITTINGS.
- INSTALL CHROME-PLATED ESCUTCHEONS WHERE BRANCH PIPES PASS THROUGH FINISHED SURFACE.
- KEEP ACCURATE RECORD OF "AS-BUILT" DRAWINGS AND SUBMIT THESE BEFORE FINAL CERTIFICATE OF COMPLETION. BURIED SERVICES MUST BE DIMENSIONED.
- ALL SURFACES MUST BE LEFT CLEAN AND SMOOTH, READY FOR PAINTING BY GENERAL TRADES.
- IDENTIFY ALL PIPING. USE STENCILS OR COLOUR CODES AND DIRECTIONAL ARROWS.
- IDENTIFY ALL FANS, STARTERS, REMOTE CONTROL AND ALL OTHER EQUIPMENT AS TO SERVICE BY A BLACK LAMACOID ENGRAVED NAMEPLATE WITH WHITE CORE, FIRMLY AFFIXED WITH SCREWS TO EACH UNIT.
- ON COMPLETION OF THE WORK, REMOVE FROM THE PREMISES ALL TOOLS, DEBRIS, SURPLUS AND WASTE MATERIALS RESULTING FROM OPERATIONS UNDER THIS SECTION. CLEAN ALL EQUIPMENT AND LEAVE ALL ITEMS IN PERFECT ORDER READY FOR OPERATION.
- AFTER ACCEPTANCE, INSTRUCT OWNER IN EQUIPMENT OPERATION AND PROVIDE HIM WITH OPERATING AND MAINTENANCE MANUALS STANDARDS AND EXTENDED WARRANTY DOCUMENTS, INSPECTION CERTIFICATES AND COPIES OF SHOP DRAWINGS OF INSTALLED EQUIPMENT.
- THE CONTRACTOR SHALL, BEFORE FINAL PAYMENT IS MADE, GUARANTEE ALL MATERIALS AND WORKMANSHIP SUPPLIED BY HIM IN THE PERFORMANCE OF THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND SHALL, WHEN CALLED UPON, MAKE GOOD WITHOUT FURTHER COST TO THE OWNER SUCH DEFECTS AS MAY APPEAR WITHIN THIS PERIOD.
- SCAN SLAB PRIOR TO ANY DRILLING, CORING OR TRENCHING FOR NEW MECHANICAL WORK. UNDER NO CIRCUMSTANCES WILL DRILLING OR CUTTING OF FLOOR, WALL OR ROOF OF THE STRUCTURE BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF LANDLORD.
- THE WORK SPECIFIED HEREIN SHALL ALSO BE IN ACCORDANCE WITH THE NATIONAL ENERGY CODE FOR BUILDINGS. MECHANICAL EQUIPMENT SHALL COMPLY WITH SUPPLEMENTARY STANDARDS SB-10 OF THE ONTARIO BUILDING CODE.

SECTION 15B - WARM AIR HEATING, VENTILATING AND AIR CONDITIONING

- SUPPLY AND INSTALL ALL HEATING, VENTILATING AND AIR HANDLING EQUIPMENT AS SHOWN ON DRAWINGS.
- SUPPLY AND INSTALL DUCTWORK AS INDICATED ON DRAWING. DUCTWORK SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST SMOAQA STANDARDS AND SHALL BE MANUFACTURED OF GALVANIZED STEEL UNLESS SPECIFICALLY NOTED OTHERWISE. DUCTWORK TO HAVE GALVANNEAL "SATIN COAT" FINISH WHERE IT IS TO BE PAINTED.
- INSTALL MANUAL BALANCING DAMPERS AT ALL BRANCH TAKEOFFS AND IN OTHER LOCATIONS WHERE NECESSARY FOR SYSTEM BALANCING.
- FLEXIBLE DUCTS SHALL BE ALUMINUM HELICALLY WOUND SPIRAL DUCT, EQUAL TO FLEXMASTER T/L. MAXIMUM 10 FT. LENGTH. PROVIDE ACOUSTIC FLEX EQUAL TO FLEXMASTER MODEL T/L-A, WHERE DUCTS ARE TO BE INTERNALLY INSULATED.
- INSTALL 6" (150MM) APPROVED FLEXIBLE CONNECTOR ON DUCT CONNECTIONS TO RESILIENTLY MOUNTED FANS.
- WHERE SHOWN, DUCTWORK SHALL BE LINED INTERNALLY WITH (1") FACED FLEXIBLE DUCT LINER. SHOWN SIZES ARE CLEAR INSIDE DIMENSIONS, INCREASE DUCT SIZE ACCORDINGLY. SIMILARLY LINE SUPPLY AND RETURN DUCTS TO FT (3M) FROM ALL HUNG AC UNITS.
- SUPPLY ALL GRILLES AND DIFFUSERS AS SHOWN ON DRAWINGS AND LISTED IN SCHEDULE.
- KITCHEN EXHAUST DUCTWORK SHALL BE 16 GAUGE WELDED CARBON STEEL. INSTALLATION, CLEARANCES AND FAN ARRANGEMENT SHALL BE IN ACCORDANCE WITH LOCAL CODES AND NFPA 96.
- ENTIRE KITCHEN EXHAUST DUCTWORK SHALL BE WRAPPED IN 2 LAYERS OF ULC LISTED 3M FIRE DUCT WRAP.
- SUPPLY AND INSTALL GAS VENTS FOR ALL GAS FIRED EQUIPMENT.
- THE REFRIGERANT LINES SHALL BE SIZED FOR A PRESSURE DROP OF NOT MORE THAN 14 KPA (2 PSI). REFRIGERANT PIPE SHALL BE TYPE L NITROGEN CHARGED ACR GRADE COPPER WITH FORGED BRASS OR WROUGHT COPPER REFRIGERATION FITTINGS. ALL JOINTS SHALL BE BRAZED. SAE FLARED FITTINGS ARE NOT ACCEPTED.
- PROVIDE SIGHT GLASSES FOR ALL LIQUID LINES AND SPORIAN LIQUID LINE DRIERS AHEAD OF EACH THERMO EXPANSION VALVE. PROVIDE SOLENOID VALVE AHEAD OF EACH EXPANSION VALVE. SUCTION LINES SHALL BE PROPERLY LOOPED IN ORDER TO ALLOW THE RETURN OF OIL TO RETURN TO THE COMPRESSOR. PROVIDE NECESSARY WIRING TO OPERATE CONDENSER AND DX SOLENOID.
- REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH 3/4" (19MM) THICK ARMAFLEX INSULATION, WITH CEMENTED JOINTS. LIQUID LINES OUTDOORS EXPOSED TO SUNLIGHT SHALL ALSO BE SIMILARLY INSULATED. COVER EXTERIOR INSULATION WITH ALUMINUM JACKETING.
- INCLUDE FOR STARTUP OF HVAC UNITS AND ALL OTHER AIR HANDLING EQUIPMENT.
- EXHAUST DUCTWORK WITHIN 5 FT. (1500MM) OF A WALL SHALL BE EXTERNALLY INSULATED WITH 1-1/2" (38MM) THICK FOIL FACED FIBREGLASS AND ALL OUT SIDE AIR INTAKE DUCTWORK DUCT INSULATION (R-S). APPLY USING RECOMMENDED ADHESIVE AND TAPE ALL JOINTS USING VAPOUR BARRIER TAPE. ALL AIR CONDITIONED SUPPLY DUCTWORK, UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE INSULATED IN A SIMILAR MANNER USING 1" MATERIAL.
- ADJUST ALL FAN SPEEDS TO DELIVER SHOWN AIR QUANTITIES. BALANCE ALL AIR SYSTEMS AND SUPPLY WRITTEN AIR BALANCING REPORTS IN TRIPLICATE. INCLUDE NECESSARY SPARE BELTS PULLEYS FOR FIELD ADJUSTMENT AND REPLACEMENT OF FILTERS. SET AIR SYSTEMS CONTROLS AND DEMONSTRATE OPERATION TO OWNER'S REPRESENTATIVE.
- PROVIDE ALL MOTORIZED DAMPERS TO OPEN AND CLOSE AS RESPECTIVE FANS START & STOP.
- ALL DUCTWORK EXPOSED IN DINING AREA TO HAVE GALVANIZED SURFACE FINISH.

SECTION 15C - PLUMBING AND DRAINAGE INSIDE THE BUILDING

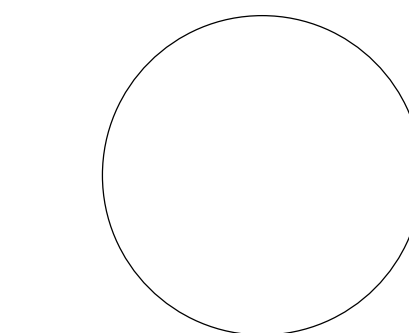
- ALL WORK SHALL BE EXECUTED BY LICENSED PLUMBERS.
- ALL PLUMBING AND DRAINAGE WORK SHALL BE INSTALLED AS REQUIRED BY THE ONTARIO BUILDING CODE, REVISED TO DATE, AND SHALL MEET THE REQUIREMENTS OF ALL PROVINCIAL AND MUNICIPAL AUTHORITIES HAVING JURISDICTION.
- INCLUDE ALL PIPING, FITTINGS AND EQUIPMENT SHOWN ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS. ALL ITEMS NOT MENTIONED BUT UNDERSTOOD TO BE NECESSARY TO COMPLETE THE PLUMBING SYSTEM SHALL BE INCLUDED.
- MAKE ALL NECESSARY CONNECTIONS TO EXISTING SERVICES.
- BURIED SANITARY DRAINAGE AND VENT PIPE AND FITTINGS UP TO 3" DIAMETER SHALL BE IPEX ABS-DWV. PIPE AND FITTINGS 3" AND GREATER SHALL BE IPEX BDS PVC SOLVENT WELD SEWER PIPE.
- ABOVE GROUND SANITARY DRAINAGE AND VENT PIPE AND FITTINGS SHALL BE IPEX SYSTEM 15 DWV SOLVENT WELD. WHERE PIPING IS LOCATED IN A RETURN AIR PLENUM, PROVIDE IPEX SYSTEM XFR DWV SOLVENT WELD INSTALLED.
- ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' COPPER WITH 95/5 SOLDER JOINTS.
- VALVES UP TO 2" (50MM) SHALL BE FULL THROAT BRONZE BALL VALVES.
- SUPPLY AND INSTALL ALL GREASE INTERCEPTOR, PLUMBING FIXTURES, CLEANOUTS, HOSE BIBB, FLOOR DRAINS, COMBINATION DRAINS, WATER HEATERS, ETC. AS SHOWN ON DRAWINGS AND LISTED IN SCHEDULES.
- VISIBLE SINK DRAINAGE TRAPS AND SUPPLY PIPING SHALL BE CHROME PLATED.
- CLEANOUTS SHALL BE INSTALLED AS REQUIRED BY CODE AND WHERE SHOWN AND SHALL SUIT FLOORING MATERIAL.
- CONNECT TO EXISTING GAS SERVICE. ENTIRE INSTALLATION SHALL BE AS STATED IN NATURAL GAS AND PROPANE INSTALLATION CODE CAN/CGA B-149-1.00.
- ALL EXTERIOR GAS PIPING TO BE PAINTED TO MATCH EXTERIOR WALL AND FURTHER IDENTIFIED AS REQUIRED BY GAS CODE. ALL GAS PIPING ON ROOF SHALL BE PAINTED YELLOW.
- SUPPLY AND INSTALL ALL HOT AND COLD WATER, WASTE AND VENT CONNECTIONS REQUIRED IN THE KITCHEN AREA, AND IN ANY OTHER LOCATIONS WHERE SHOWN OR REQUIRED FOR ALL ITEMS SHOWN ON MECHANICAL OR ARCHITECTURAL DRAWINGS, INCLUDING "NOT-IN-CONTRACT" (N.I.C.) ITEMS, "CASH ALLOWANCE" ITEMS, "SUPPLIED BY OWNERS" (S.B.O.) ITEMS. THIS INCLUDES UNDER COUNTER DISHWASHERS, WASHERS, ICE MAKERS, CONDENSER UNITS ETC. COOPERATE WITH ALL OTHER TRADES TO THE EXTENT OF PROPERLY LOCATING ANY CONNECTIONS THEY REQUIRE AND CONNECT UP COMPLETE TO ALL PIECES OF APPARATUS SO SERVED, INSTALLING A VALVE ON EACH WATER AND GAS CONNECTION CLOSE TO EACH PIECE OF APPARATUS. INSTALL A CAST BRASS TRAP WITH CLEANOUT AND VENT ON THE WASTE CONNECTIONS, UNLESS WASTE DISCHARGES INTO A FLOOR DRAIN, HUB OR COMBINATION DRAIN. INCLUDE PIPING FROM APPARATUS WASTE CONNECTION TO SUCH OPEN DRAINS IN THE LATTER CASE. FINAL HOOKUP OF ALL EQUIPMENT BY PLUMBING CONTRACTOR.
- DOMESTIC COLD AND HOT WATER PIPING SHALL BE INSULATED WITH 1" (25MM) THICK FIBREGLASS PIPE INSULATION WITH ASJ. USE 1-1/2" (40MM) MATERIAL FOR PIPING 2" AND OVER. IN EXPOSED AREAS FINISH WITH PVC. JACKETING. INSULATE ALSO COLD WATER METERS.
- SUPPLY AND INSTALL ALL FIRE EXTINGUISHERS AS REQUIRED BY CODE.
- SEE FIXTURE SCHEDULE FOR PLUMBING FIXTURE TYPES.
- SUPPLY AND INSTALL WHEEL HANDLE OR SCREW FIXTURES STOP VALVE ON THE HOT AND COLD WATER SUPPLY TO EVERY FIXTURE ON THE JOB, IN ADDITION TO THE VALVE OR FAUCET ON THE FIXTURE ITSELF.
- PROTECT ALL FIXTURES UNTIL HANDED OVER TO THE OWNER. ALL FIXTURES SHALL BE COMPLETE WITH NECESSARY TRIM, TRAP SUPPLIES, STOPS, TAIL PIECES, TRAPS, GASKETS, ETC.
- ALL EXISTING DRAIN LINES TO BE PRESSURE WASHED AND VIDEO INSPECTED BY PLUMBING CONTRACTOR, PRIOR TO COMMENCEMENT OF WORK.
- ALL FLOOR DRAINS, HUB DRAINS, TO BE TRAPPED, PRIMED AND VENTED AS PER CODE.

SECTION 15D - SPRINKLERS

- ALTER THE EXISTING SPRINKLER SYSTEM TO SUIT THE REVISED LAYOUT.
- THIS IS PERFORMANCE SPECIFICATION ONLY. PREPARE SPRINKLER SHOP DRAWINGS FOR SUBMISSION TO ENGINEER, UNDERWRITERS AND BUILDING DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION. ENGINEERS DRAWINGS INDICATE GENERAL AREAS TO BE SPRINKLERED ONLY.
- SYSTEM SHALL BE COMPLETE WITH ALL NECESSARY PIPING, HANGERS, HEADS, DRIPS, DRAINS, TEST CONNECTIONS, SPARE SPRINKLERS, ETC., ALL IN STRICT ACCORDANCE WITH STANDARDS AS STIPULATED IN THE NATIONAL FIRE PREVENTION ASSOCIATION NFPA 13 AS REVISED TO DATE AND/OR AS APPROVED BY THE LOCAL FIRE DEPARTMENT AND BUILDING DEPARTMENT.
- IN GENERAL, SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH "ORDINARY HAZARD OCCUPANCY" STANDARDS.
- ALL HEADS UNLESS NOTED OTHERWISE SHALL BE EQUAL TO GRINNELL "DURO SPEED".
- WHERE SUSPENDED CEILINGS OCCUR, HEADS SHALL BE CHROME PLATED SEMI-RECESSED PENDANT TYPE WITH CHROME ESCUTCHEON. WHERE DRYWALL CEILINGS OCCUR, HEADS SHALL BE BRONZE CONCEALED PENDANT TYPE WITH COVER PLATE. ALL PIPING SHALL BE CONCEALED ABOVE CEILINGS. IN EXPOSED AREAS WITH NO CEILINGS, HEADS SHALL BE UPRIGHT TYPE WITH PLAIN BRONZE FINISH. SUBMIT SAMPLES TO ARCHITECT FOR APPROVAL BEFORE INSTALLATION.
- PROVIDE FREEZE-PROOF DRY PENDANT SPRINKLER HEADS WITH GUARDS IN WALK-IN COOLER.
- CONTRACTOR SHALL PAY ALL NECESSARY CHARGES HE INCURS FROM UNDERWRITERS FOR THEIR REVIEW OF THESE DRAWINGS.

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Contents:

MECHANICAL
SPECIFICATIONS
& LEGEND

M101

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.

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.
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. PROVIDE A 3" VENT THROUGH THE ROOF PER DETAILS ON M302/M303.
7. PROVIDE GREASE INTERCEPTOR GI-1.
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. NOT USED.
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 FLOOR SINK.
18. NOT USED.
19. PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN AT THE PICKUP WINDOW TO THE FLOOR SINK BELOW. ROUTE DRAIN LINES AROUND SHELVING BELOW, NOT THROUGH. DRAIN THROUGH AN AIR GAP.
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 FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.
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.
26. PROVIDE 3/4" PVC DRAIN PIPE FROM ICE MACHINE TO HUB DRAIN PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO HUB DRAIN. SECURE DRAIN PIPE TO THE BOTTOM OF ICE MAKER.

SANITARY HYDRAULIC LOAD FIXTURE UNITS

TAG	DESCRIPTION	SAN (FU)	No. OF FIXTURES	TOTAL OF FIXTURE UNITS
MV-1	KITCHEN HAND SINK	1/2	3	4.5
MB-1	MOP SINK	3	1	3
WC	WATER CLOSET (FLUSH TANK)	4	3	12
WC-1	WATER CLOSET (BARRIER FREE-FLUSH TANK)	4	1	4
L	LAVATORY	1/2	3	4.5
L-1	LAVATORY (BARRIER FREE)	1/2	1	1/2
HD-1	3" HUB DRAIN	3	7	21
FD-1	3" FLOOR DRAIN	3	7	21
FD-2	3" FUNNEL FLOOR DRAIN	3	2	6
	TRENCH DRAIN	3	1	3
TOTAL:				80.5

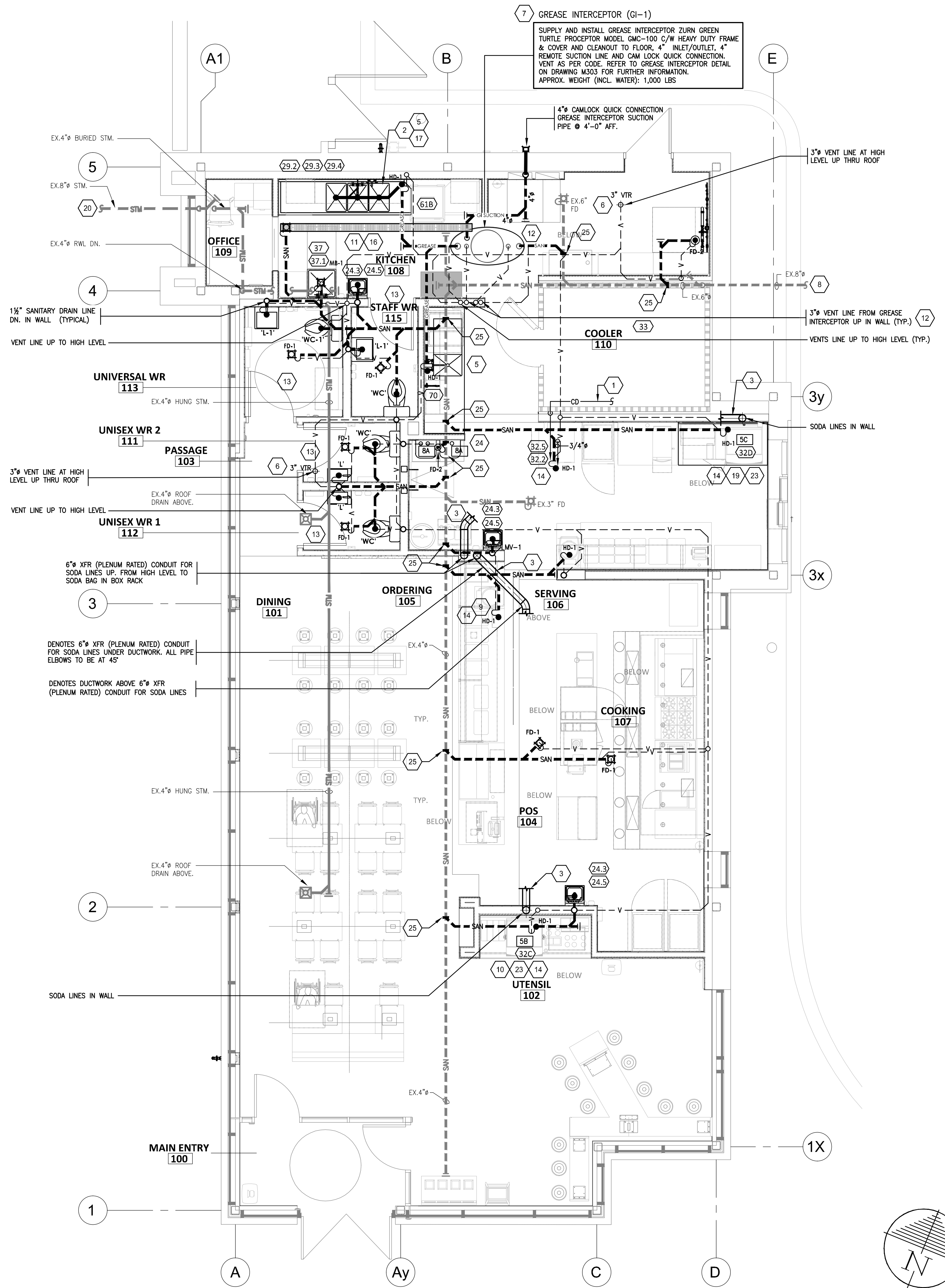
GREASE HYDRAULIC LOAD FIXTURE UNITS

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 = 1x (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 SB 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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Drawn: Checked:
 KL/KE JCY/AJG

Project No. SCALE:
 21036 1/4" = 1'-0"

Contents:
PLUMBING PLAN
SANITARY DRAINAGE

M201

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. CONCEAL ALL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
3. PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.
4. PROVIDE STOP VALVES AT EACH FIXTURE.
5. 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.
6. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
7. INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE AND STORM PIPING PER SPECIFICATIONS AND DETAILS.
8. 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.
9. REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR GAS PIPING.
10. PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD-FREE.
11. 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.
12. 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

1. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF DOMESTIC WATER SERVICE.
2. 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.
3. PROVIDE WATER HEATERS DWH-1 AND DWH-2 PER DETAILS ON M302/M303.
4. PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAILS ON M302/M303. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR.
5. 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.
6. 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.
7. NOT USED.
8. PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAILS ON M302/M303.
9. NOT USED.
10. PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT. (TYP.)
11. REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.
12. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
13. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
14. PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAILS ON M302/M303.
15. PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAILS ON M302/M303.
16. CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAILS ON M302/M303.
17. PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
18. PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
19. PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/P700.
20. PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE ONCE FRYER IS SECURED INTO PLACE.
21. 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.
22. INSTALL RGF MSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
23. 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.
24. 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.
25. 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.
26. PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
27. NOT USED.
28. INSTALL RGF MSB ICE MAKER SANITIZER FURNISHED BY UV SANITIZER SUPPLIER PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE MSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
29. 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.
30. CHEMICAL DISPENSER FAUCET MOUNTED AT 52" A.F.F. PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE. CONNECT CHEMICAL DISPENSER TO FAUCET.
31. 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.
32. MAIN DOMESTIC WATER SHUT-OFF VALVE TO REMAIN ACCESSIBLE. PERMANENTLY INSTALL "WATER SHUT-OFF" SIGN TO CEILING GRID BELOW.
33. PROVIDE TRAP PRIMER DISTRIBUTION SYSTEM AS PER DETAIL ON DWG. M303. INSTALL WITHIN WALL CAVITY C/W ACCESS PANEL FACING CORRIDOR. RPBPFC TO BE WALL MOUNTED IN WATER FILTER CAVITY.
34. 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/CSSB-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
35. 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/CSSB-24.3-92 STANDARDS.
36. 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.
37. PROVIDE PVC SLEEVE THROUGH CEILING FOR ICE MAKER REFRIGERANT LINE SET AS PER DETAIL ON DWG M302.
38. 1-1/2" C.W. LINE DN. ON WALL TO SHUT-OFF VALVE. MARK ON VALVE "MAIN COLD WATER SHUT-OFF"
39. NOT USED.
40. 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.
41. BACK OF HOUSE HANDSINK TO BE INSTALLED WITH HAWS MODEL 7620 FAUCET MOUNTED EYEWASH "AXION EYEWASH". TO BE STAINLESS STEEL CONSTRUCTION AND C/W THERMOSTATIC PROTECTION. INSTALLATION TO BE COMPLIANT WITH ANSI Z358.1-2009.

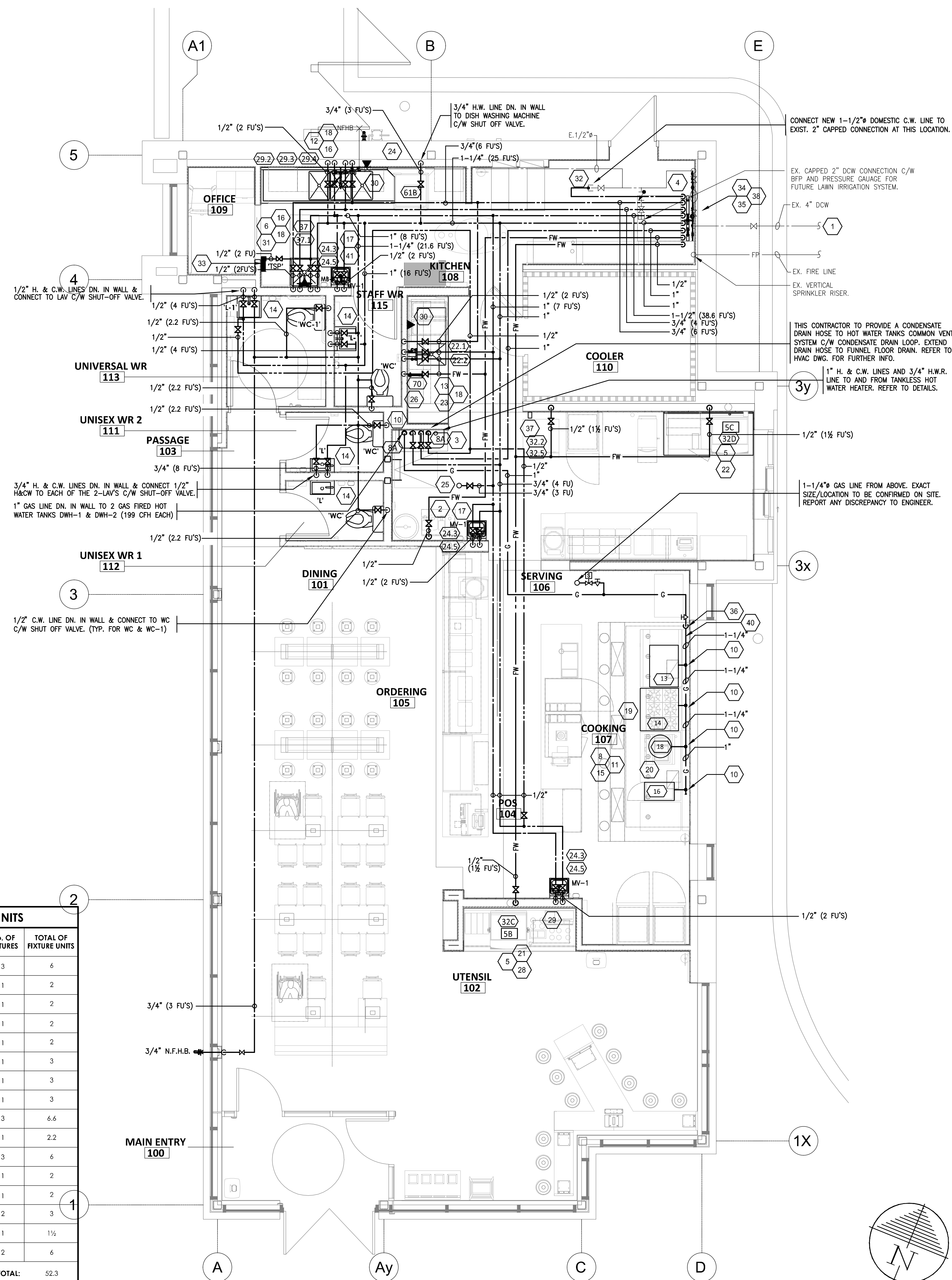
PLUMBING GAS CONNECTIONS

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 GRIDDL	3/4"	110,000 Btu/h
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1/2"	225,650 Btu/h
RC-1	RICE COOKER	3/4"	33,000 Btu/h
RN-1	6 BURNER RANGE	3/4"	192,000 Btu/h
HAC-1	KITCHEN ROOFTOP UNIT	3/4"	240,000 Btu/h
HAC-2	DINING ROOM ROOFTOP UNIT	3/4"	240,000 Btu/h
GRAND TOTAL			1,528,650 Btu/h

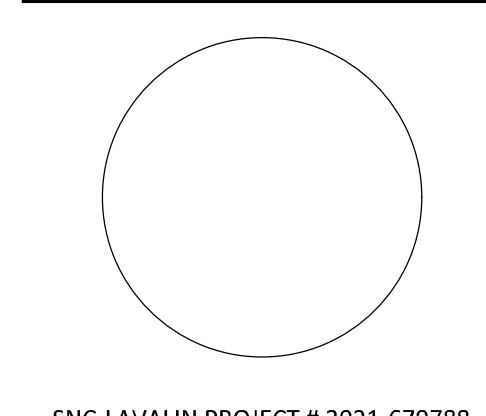
NOTES: 1. PRESSURE REQUIRED AFTER METER: 7" W.C.

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	1½	1½	2	3	6
29B	3 COMPARTMENT SINK	1½	1½	2	1	2
29A	3 COMP. PREP. SINK CHEMICAL FAUCET	1½	1½	2	1	2
22	PREP. SINK	1½	1½	2	1	2
70	SPEED FILL FAUCET	1½	1½	2	1	2
61B	DISHWASHER	3	—	3	1	3
MB-1	MOP SINK	2¼	2¼	3	1	3
37A	MOP SINK CHEMICAL FAUCET	2¼	2¼	3	1	3
WC	WATER CLOSET (FLUSH TANK)	—	2.2	2.2	3	6.6
WC-1	WATER CLOSET (BARRIER FREE-FLUSH TANK)	—	2.2	2.2	1	2.2
L	LAVATORY	1½	1½	2	3	6
L-1	LAVATORY (BARRIER FREE)	1½	1½	2	1	2
TSP	TRAP SEAL PRIMER	—	2	2	1	2
62C7	ICE MACHINE	—	1½	1½	2	3
6	SODA CARBONATOR	—	1½	1½	1	1½
	HOSE BIBB	—	3	3	2	6
TOTAL:						52.3



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Drawn: JCY/AJG
 Checked: JCY/AJG
 Project No: 21036
 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 SPACE. 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 M314 FOR FURTHER DETAILS REGARDING CAPTIVE AIR EQUIPMENT INSTALLATION AND SPECIFICATIONS.

CONTROL FUNCTIONS

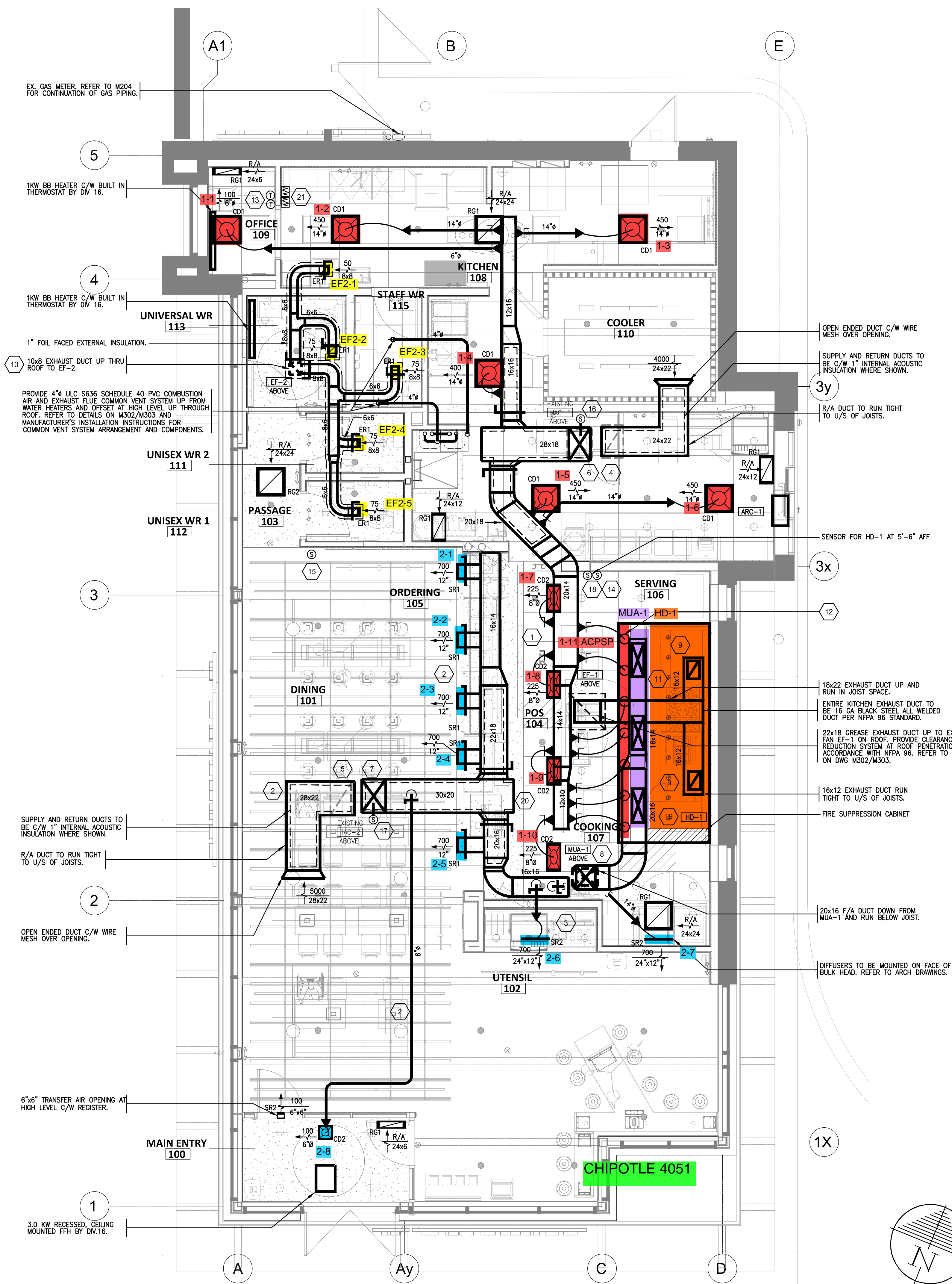
- THE MAIN COOKING EXHAUST FAN, ELECTRIC DUCT HEATER AND SUPPLY FAN SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THERMOSTATS LOCATED IN THE OFFICE. THERMOSTATS 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 UP FOR TRANSITION TO HAC-1 RETURN CONNECTION IN ROOF CURB. HAC-1 SHALL HAVE AN INTERNAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO HAC-1 OPERATION.
- DUCT UP FOR TRANSITION TO HAC-2 RETURN CONNECTION IN ROOF CURB. HAC-2 SHALL HAVE AN INTERNAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO HAC-2 OPERATION.
- DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO HAC-1 SUPPLY CONNECTION IN ROOF CURB.
- DUCT UP FROM BUILDING SUPPLY TO HAC-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- DUCT UP THROUGH ROOF. TRANSITION TO MAU-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.
- DUCT UP THROUGH ROOF TO EF-2.
- DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3. REFER TO KITCHEN EXHAUST DETAILS ON M304-M314.
- 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 HAC-1 AND HAC-2 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 HAC-1 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 HAC-2 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 HAC-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN ON ELECTRICAL DETAILS.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY ENERGY MANAGEMENT SYSTEM SUPPLIER FOR HAC-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN ON ELECTRICAL DETAILS.
- 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 INTERNAL 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-M314. 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.
- PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.

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



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2022-03-11	ISSUED FOR COORDINATION
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2022-10-04	ISSUED FOR CONSTRUCTION

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2022-07-13	ISSUED FOR ADD M-01
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Drawn: JCY/AJG
 Checked: JCY/AJG

Project No: 21036
 SCALE: 1/4" = 1'-0"

Contents:
 GROUND FLOOR PLAN
 HVAC

M203

STORE NO.: 52-4051

BRITANNIA
 6133 ERIN MILLS PKWY.,
 MISSISSAUGA,
 ON., CANADA

HVAC EQUIPMENT SCHEDULE															
TAG	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. (IN. WC)	MCA	MOCP (A)	ELECTRICAL (V/Ph/Hz)	MOTOR HP	GAS HEATING (MBH) INPUT	OUTPUT	NOMINAL TONNAGE	FRESH AIR MIN. %	WEIGHT (LBS)	REMARKS
HAC-1	KITCHEN ROOFTOP UNIT	YORK	ZJ120N24U5B5A43A2	4,000	0.6	17.3	-	575/3/60	3.0	240	192	10.0	10	1,275	EXISTING UNIT BY LANDLORD. TO BE C/W R410A REFRIGERANT, 7-DAY PROGRAMMABLE T'STAT, LOW AMBIENT CUTOFF, 14" HIGH ROOF CURB, BOTTOM DISCHARGE, WEATHERPROOF DISCONNECT SWITCH, BELT DRIVEN EVAPORATOR FAN, ENTHALPY CONTROLLED ECONOMIZER C/W OUTSIDE AIR, EXHAUST & RETURN AIR MODULATING DAMPERS, DEMAND CONTROL VENTILATION, CO2 UNIT MOUNTED ACCESSORY, FILTER SECTION WITH 2" DISPOSABLE FILTERS AND ALL SAFETY FEATURES.
HAC-2	DINING ROOM ROOFTOP UNIT	YORK	ZJ150N24U5B8A3A1	5,000	0.6	27.4	-	575/3/60	5.0	240	192	12.5	10	1,485	
MAU-1	MAKE-UP AIR UNIT	CAPTIVE AIRE	A1-0.250-15D	1,950	0.45	4.2	15	575/3/60	2.0	225.65	207.598	-	100	520	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-M314 FOR FURTHER DETAILS.

FAN SCHEDULE														
TAG	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. (IN. WC)	FLA (A)	MOCP (A)	ELECTRICAL (V/Ph/Hz)	MOTOR HP	RPM	WEIGHT (LBS)	CONNECTION SIZES		REMARKS
												HW	CW	DRAIN
EF-1	KITCHEN EXHAUST FAN	CAPTIVE AIRE	DU240HFA	3,200	1.2	5.0	-	575V/3/60	5.0	780	264			ULC LISTED ROOF MOUNTED UPBLAST KITCHEN EXHAUST FAN SUPPLIED BY OWNER AND INSTALLED BY THIS DIVISION. FAN COMPLETE WITH VENTED ROOF CURB, GREASE BOX, ENVIROMATIC VIROGUARD SYSTEM AND HINGED FAN ADAPTER. FAN INTERLOCKED WITH MAKE-UP AIR UNIT MAU-1. REFER TO DRAWINGS M304-M314 FOR FURTHER DETAILS.
EF-2	WASHROOM EXHAUST FAN	CAPTIVE AIRE	DR12HFA	350	0.6	2.9	-	120V/1/60	0.25	1,429	49			DOWNDRAFT ROOF EXHAUST FAN SUPPLIED BY OWNER AND INSTALLED BY THIS DIVISION. FAN COMPLETE WITH ROOF CURB AND BACKDRAFT DAMPER. REFER TO DRAWINGS M304-M314 FOR FURTHER DETAILS.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE													
TAG	DESCRIPTION	MANUFACTURER	MODEL	SPECIFICATION	CONNECTION SIZES			REMARKS					
					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, 3/4" 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, 3/4" 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, SCORATED 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"	--						
TSP	TRAP SEAL PRIMER	ZURN	Z1020	ELECTRONIC TRAP PRIMER C/W ATMOSPHERIC VACUUM BREAKER, 24 VAC SOLENOID, 120-24V TRANSFORMER, RECESSED BOX MOUNT AND COVER. PROVIDE ADDITIONAL OUTLETS AS REQUIRED.	--	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" HDPE 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 DETAIL 13/P700 FOR REDUCTION TO 3" DRAIN CONNECTION.	--	--	3"						
L	WASHROOM LAVATORY	AMERICAN STANDARD (DXV)	COSSU D20126100.415 (R)	20"x10" FIRE GLAZ 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 EFX-200-100-0000 COMPLETE WITH EAF-37, 120V PLUG IN TRANSFORMER, MIXING VALVE MIX 60A. RECEPTACLE TO BE LOCATED 24" A.F.F. UNDER LAVATORY.	1/2"	1/2"	1-1/4"						
WC	WATER CLOSET	AMERICAN STANDARD	CHAMPION PRO ELONGATED 211AA.154	FLOOR MOUNTED ELONGATED LINED FLUSH TANK TOILET (6 LITRE) WITH BOLT DOWN COVER, 3/8"C.P. SUPPLY WITH SCREW DRIVER STOP AND WHITE OPEN FRONT SEAT LESS COVER AND STAINLESS STEEL HINGE, POSTS AND NUTS. FIXTURE: AMERICAN STANDARD CHAMPION PRO ELONGATED 211AA.154. SEAT: CENTOCO 500 STSQC COMPLETE WITH STAINLESS STEEL HINGES, POSTS AND NUTS.	--	1/2"	3"						
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 EFX-200-100-0000 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-1	WATER CLOSET	AMERICAN STANDARD	CHAMPION PRO ELONGATED 211AA.154	FLOOR MOUNTED ELONGATED LINED FLUSH TANK TOILET (6 LITRE) 16" HIGH WITH 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 CHAMPION PRO ELONGATED 211AA.154. SEAT: CENTOCO 820 STSQC COMPLETE WITH STAINLESS STEEL HINGES, POSTS AND NUTS.	--	1/2"	3"						

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-ACPS-P-F	3,200	1,950	800	120V/1/60	1,200	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. REFER TO DRAWINGS M304-M311 FOR FURTHER DETAILS.	

HEATED AIR CURTAIN SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER	MODEL	HEATING ELECTRICAL OUTPUT	ELECTRICAL (V/Ph/Hz)	FLA (A)	MOTOR HP	REMARKS	
ARC-1	DRIVE THRU	QUIKSERV	QSV1025EJ-040-BK	3KW	208/1/60	16.1	1/5	QUIKSERV ELECTRICALLY HEATED AIR CURTAIN C/W 7 DAY PROGRAMMABLE THERMOSTAT. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS.	

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 AND LEAD FREE "PLUMB EASY VALVE SET".
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 AND LEAD FREE "PLUMB EASY VALVE SET".


OWNER SUPPLIED EQUIPMENT - PLUMBING, DRAINAGE & GAS REQUIREMENTS

KITCHEN EQUIPMENT LIST

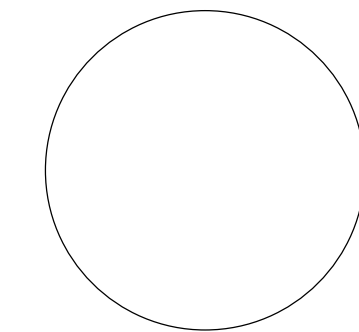
ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	WATER		DRAIN		GAS	REMARKS
				CW	FW	HW	DIRECT		
1A	Front Serve Line - 12 Pan - POS Left	Delfield	12 Pan Serve Line POS_221x38.5in (Left)					3/4"	PROVIDE VALVE ON DRAIN. DRAIN TO FLOOR SINK.
13	Grill 48in - Natural Gas - Divider Left	Woodstone	WS-PL-48-36-4-CT-Left					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.
18	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-FF-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	B5005F					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	CF5440-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						
32D	Ice Maker Mounted On Soda Machine - Remote Air Cooled	Hoshizaki	KMD-530MRJ						
33	Walk In Cooler 9x12x10ft 3in - Standard	Manitowoc/Norlake	CHP912SL-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	AM165CB	1/2"		3/4"		2"	DRAIN TO HUB DRAIN
69B	M4.0 Simplicity Bubbler Mini-Quad	Crathco	CS-4E-16					3/4"	DRAIN TO HUB DRAIN
70	Speed Fill Faucet	T&S	B-0432.MOD	1/2"		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	24"x12", LAY-IN, INTEGRAL OBD, WHITE FINISH REMOVE 4-WAY DEFLECTOR.
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	0' FIXED BLADE RETURN GRILLE	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

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AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW (CFM)	RETURN FLOW (CFM)	EXHAUST FLOW (CFM)	SUBTOTAL (CFM)
EF-1	0	0	3,200	-3,200
EF-2	0	0	350	-350
MAU-1	1,950	0	0	1,950
RTU-1	4,000	3,000	0	1,000
RTU-2	5,000	4,000	0	1,000
NET PRESSURIZATION (CFM)				400

DESIGN BULLETIN: DB-03/2022

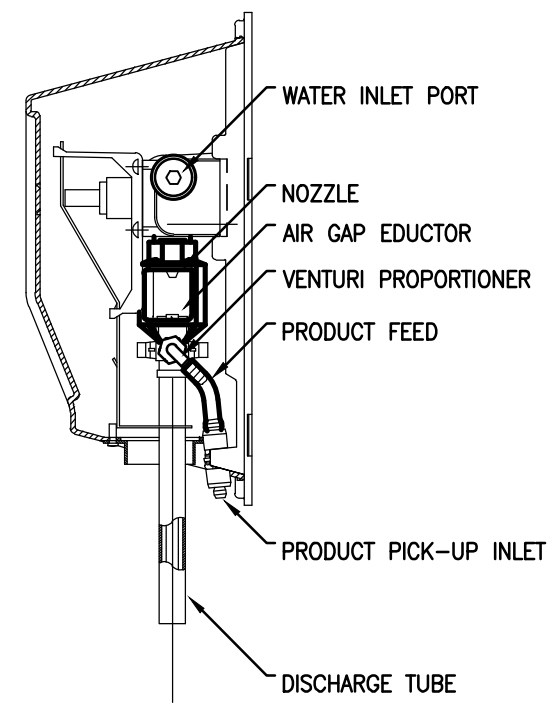
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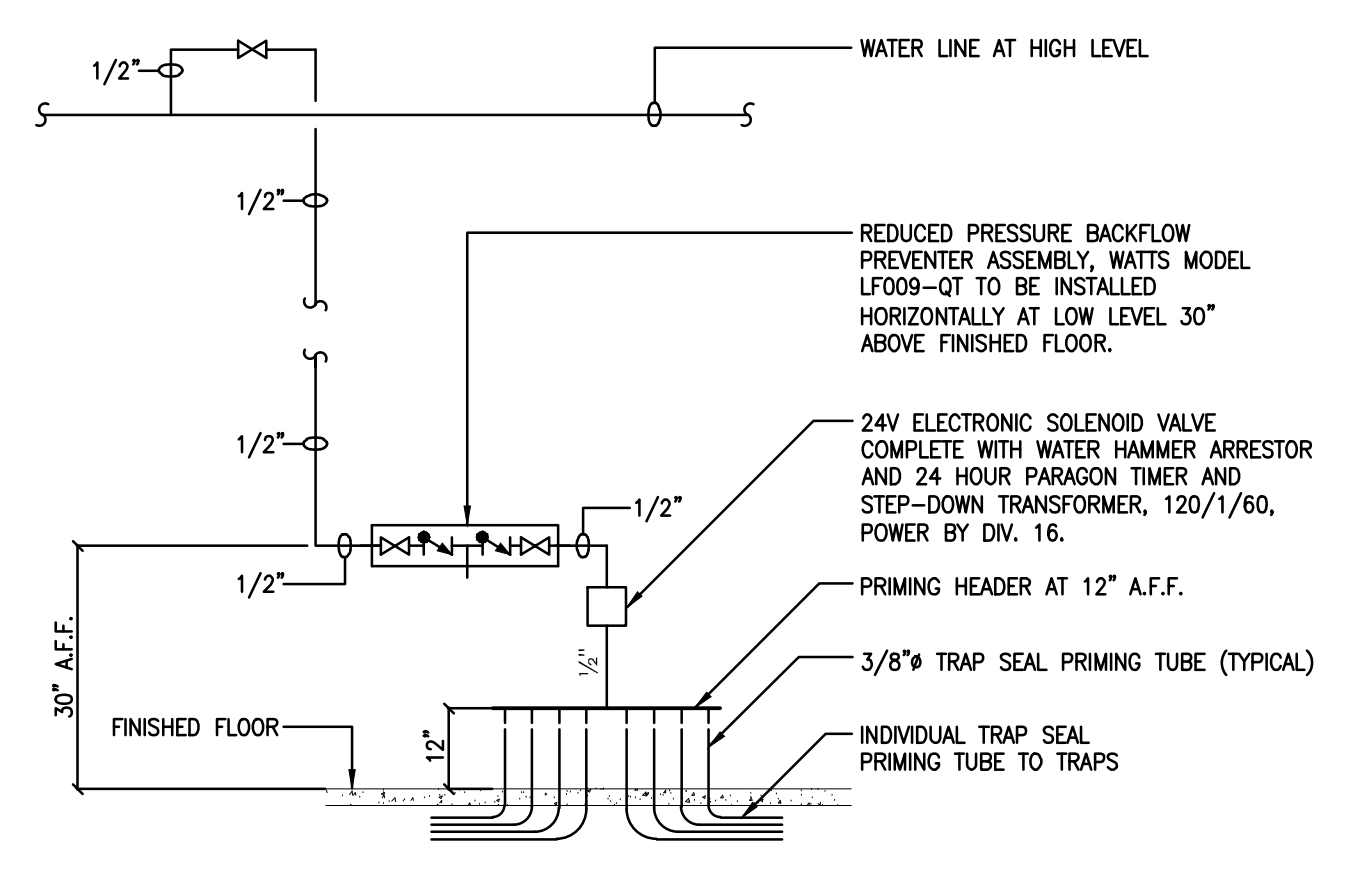
Drawn: KL/KE
Checked: JCY/AJG

Project No: 21036
SCALE: N.T.S

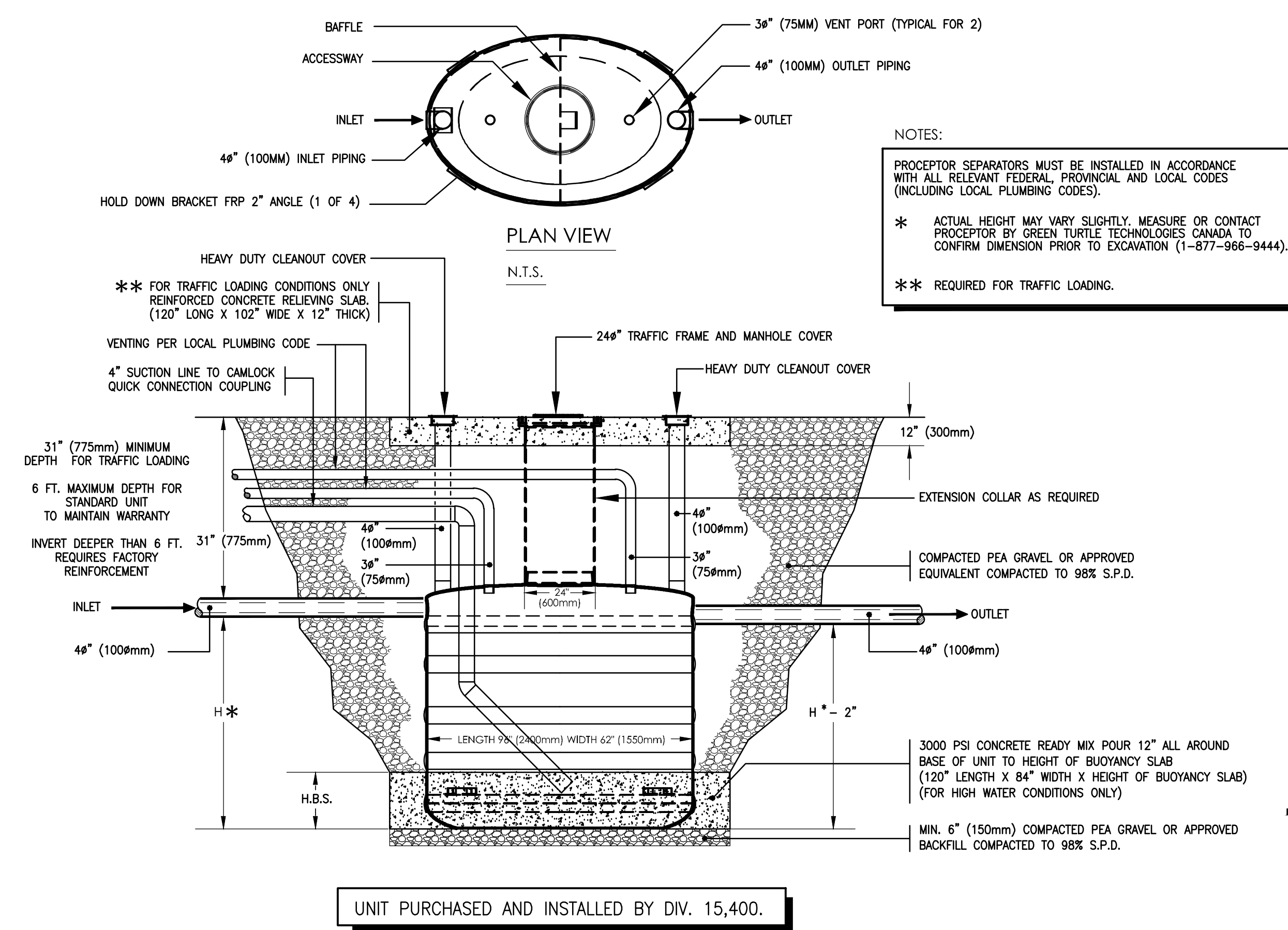
Contents:
MECHANICAL SCHEDULES



1 CHEMICAL DISPENSER DETAIL
M303 NTS

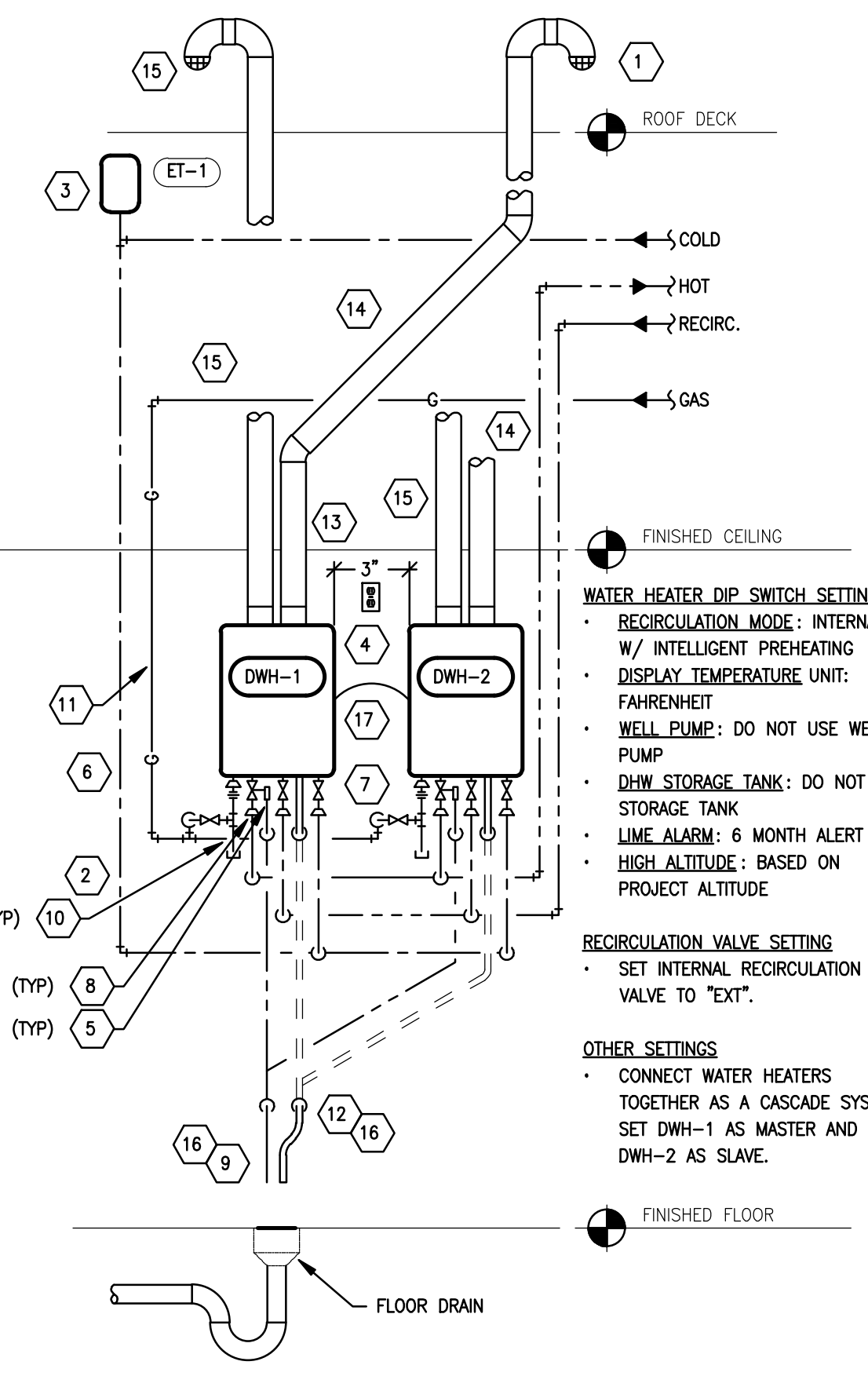


2 TRAP SEAL PRIMER DETAIL
M303 NTS



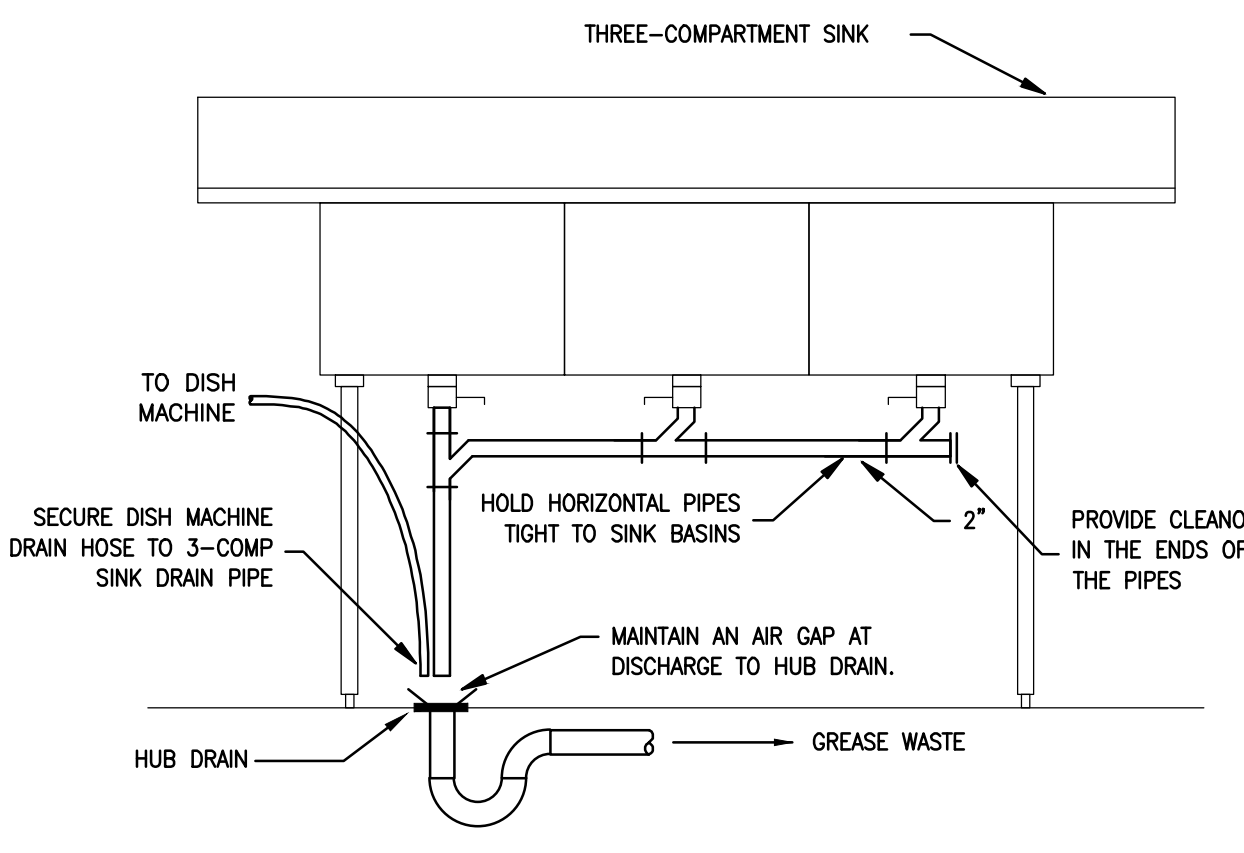
3 GREASE INTERCEPTOR INSTALLATION DETAIL
M303 NTS

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

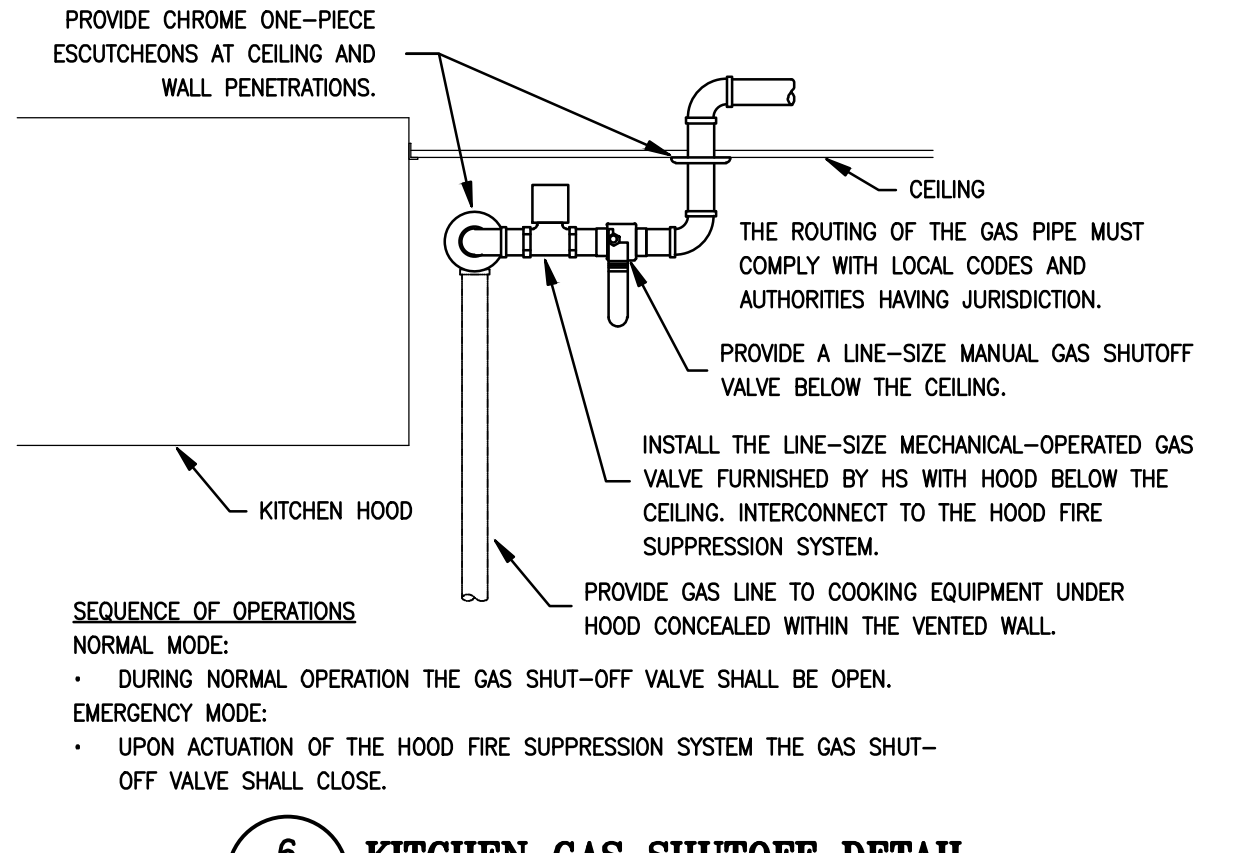


4 DUAL TANKLESS WATER HEATER INSTALLATION DETAIL
M303 NTS

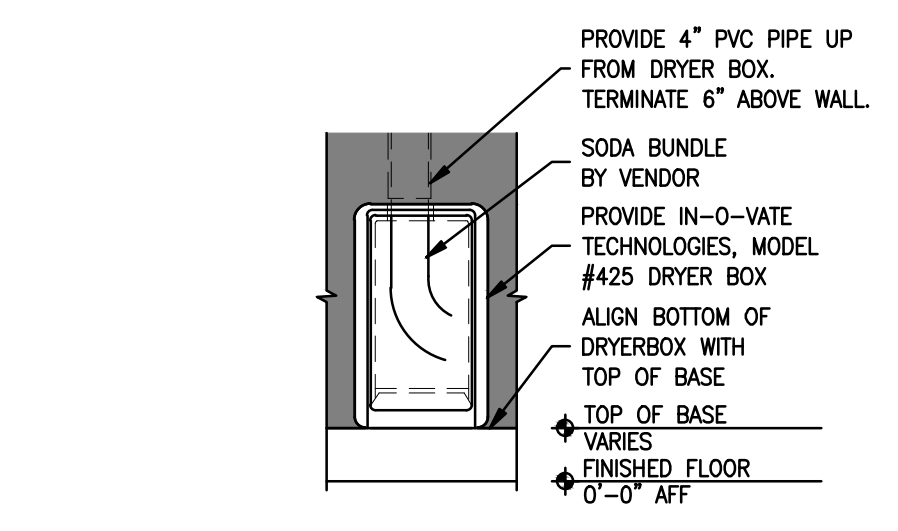
- WATER HEATER DETAIL NOTES**
1. PROVIDE TWO 90° ELBOWS AND A SCREEN FOR THE FLUE TERMINATION THROUGH THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. ROUGH-IN COLD, HOT, AND RECIRC PIPES AT 64" AND GAS PIPE AT 61" BELOW THE FINISHED CEILING.
 3. PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
 4. PROVIDE WATER HEATER RECEPTACLE WITHIN 12" OF THE FINISHED CEILING. FASTEN CORD TIGHT TO THE WALL.
 5. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO POINT OF DISCHARGE.
 6. CONCEAL WATER PIPING WITHIN THE WALL AS SHOWN. INSULATE EXPOSED AND CONCEALED WATER PIPING TO WITHIN 3" OF THE WATER HEATER.
 7. INTALL "PLUMB EASY VALVE SET" EXPOSED AT THE COLD AND HOT WATER CONNECTIONS TO THE WATER HEATER AS SHOWN.
 8. 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.
 9. PIPE PRESSURE RELIEF VALVE DISCHARGE AND FLUE CONDENSATE DRAIN TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
 10. PROVIDE AN EXPOSED DRIP LEG AND LINE-SIZE GAS VALVE ON THE GAS SERVICE TO THE WATER HEATER.
 11. CONCEAL GAS PIPING IN THE WALL AS SHOWN.
 12. PROVIDE 1/2" PVC PIPE FROM THE FLUE CONDENSATE CONNECTION TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
 13. INSTALL THE TANKLESS WATER HEATER WITH THE TOP OF THE WATER HEATER WITHIN 12" OF THE FINISHED CEILING.
 14. 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.
 15. PROVIDE A SCREENED AIR INTAKE WITH TWO 90° ELBOWS ABOVE THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 16. CONCEAL DRAIN LINES IN WALL PER DETAIL 9/THIS SHEET.
 17. PROVIDE COMMUNICATION CABLE CONCEALED IN WALL BETWEEN WATER HEATERS.
- WATER HEATER GENERAL NOTES**
- A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE TENANT.
 - B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
 - C. MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLE MATERIALS.
 - D. 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
 - LINE ALARM: 6 MONTH ALERT
 - HIGH ALTITUDE: BASED ON PROJECT ALTITUDE
- RECIRCULATION VALVE SETTING**
- SET INTERNAL RECIRCULATION VALVE TO "EXT".
- OTHER SETTINGS**
- CONNECT WATER HEATERS TOGETHER AS A CASCADE SYSTEM. SET DWH-1 AS MASTER AND DWH-2 AS SLAVE.



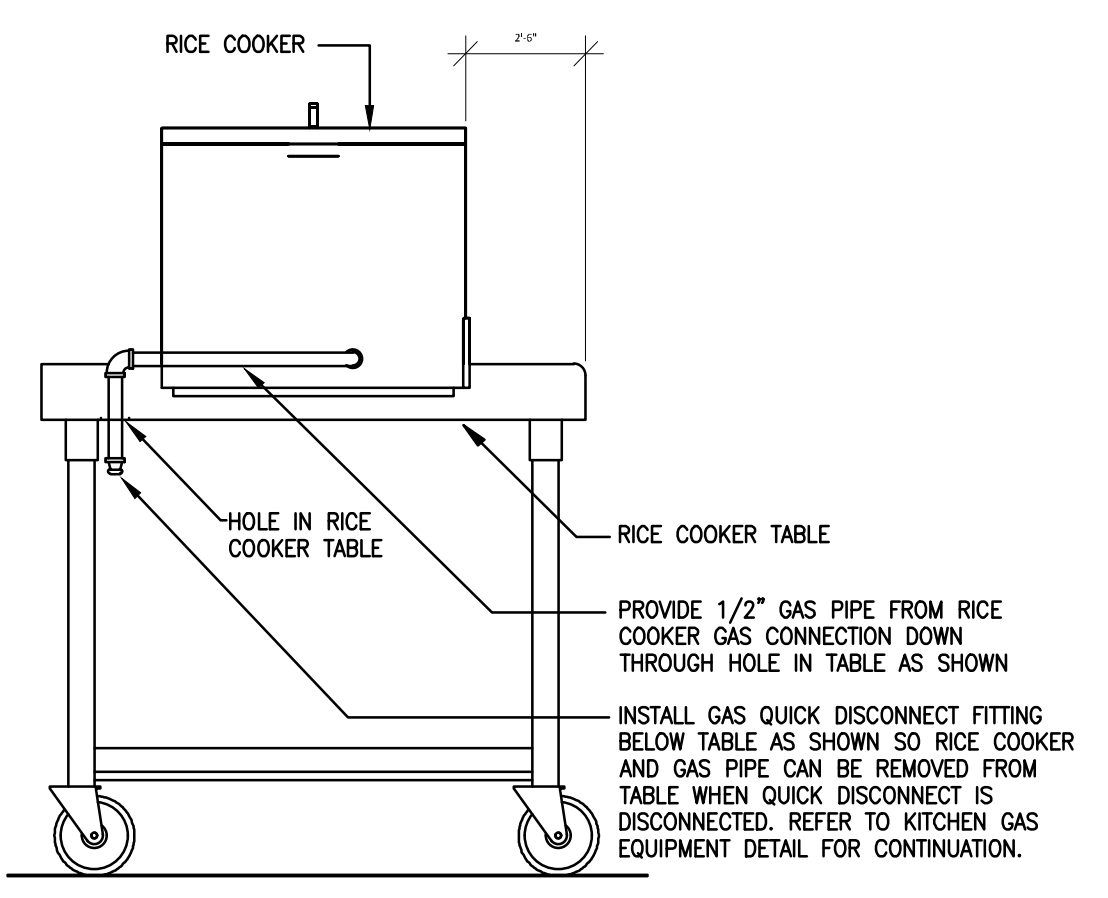
5 WARE WASHING SINK DETAIL
M303 NTS



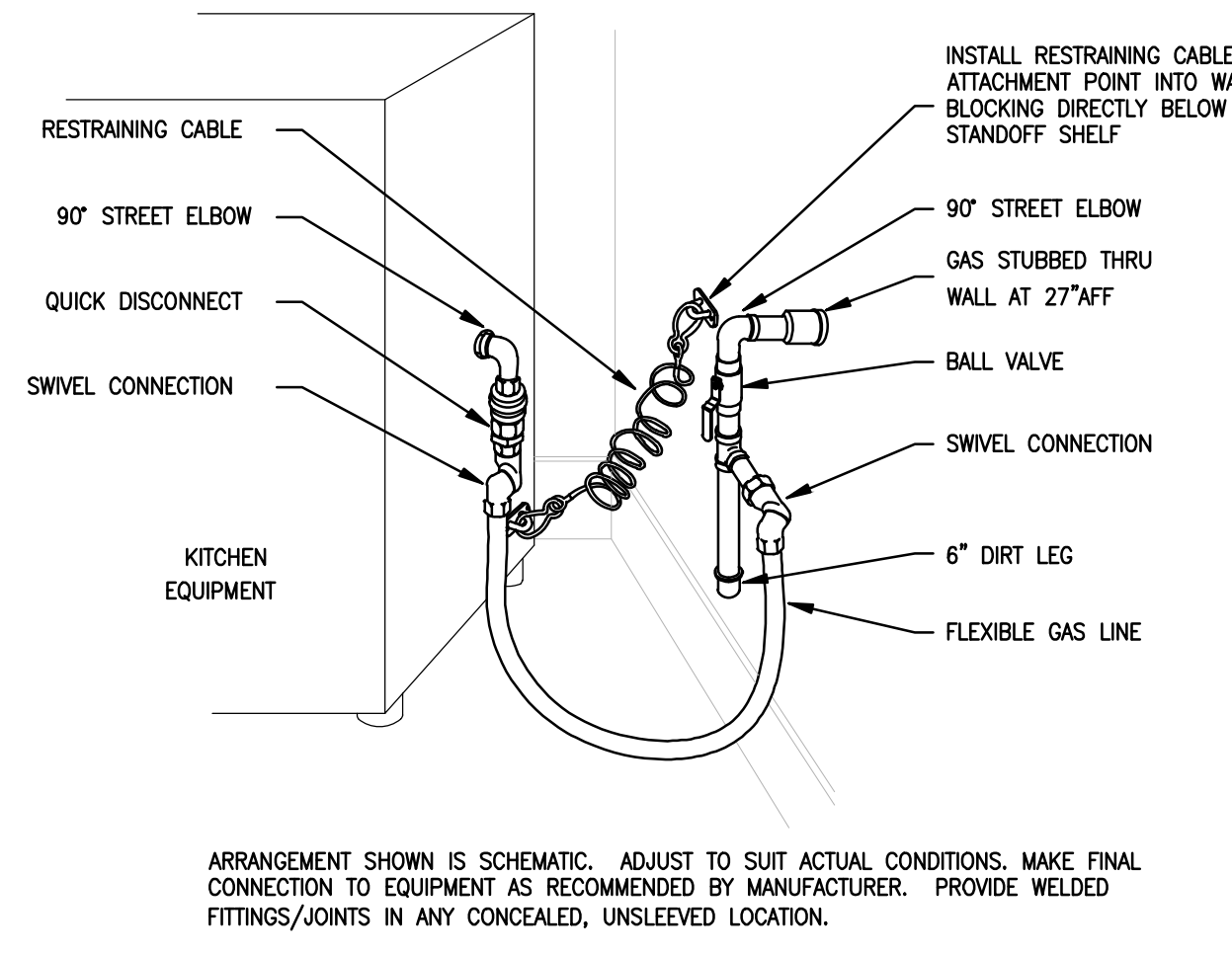
6 KITCHEN GAS SHUTOFF DETAIL
M303 NTS



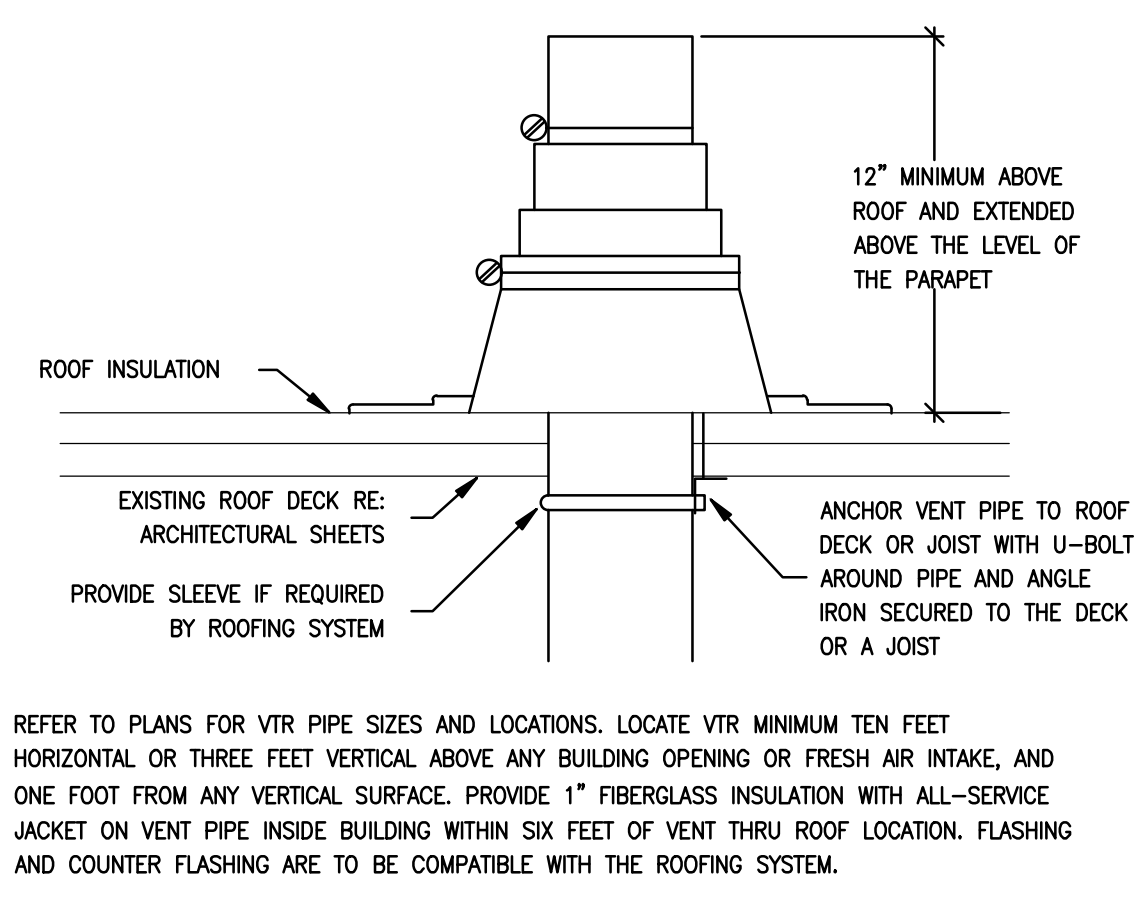
7 SODA TERMINATION DETAIL
M303 NTS



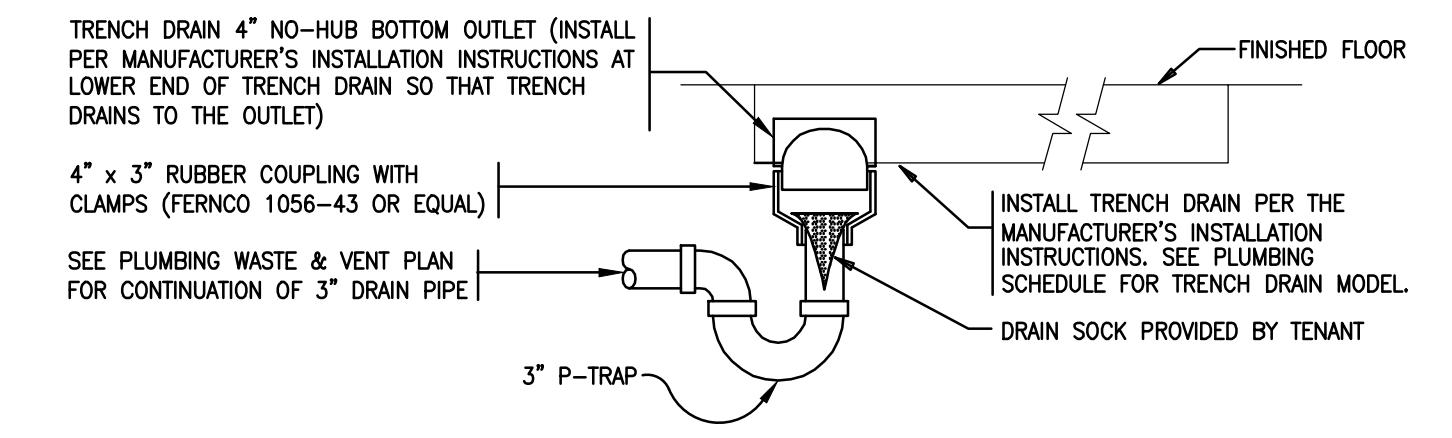
8 RICE COOKER GAS CONNECTION DETAIL
M303 NTS



9 KITCHEN EQUIPMENT GAS CONNECTION DETAIL
M303 NTS



10 VENT THROUGH ROOF DETAIL
M303 NTS



11 TRENCH DRAIN DETAIL
M303 NTS

- GMC 300 INSTALLATION PROCEDURE**
1. 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.
 2. INSTALL & LEVEL 6" LAYER OF PEA GRAVEL OR APPROVED EQUIVALENT BACKFILL COMPACTED TO 98% S.P.D. (STANDARD PROCTOR DENSITY).
 3. 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 5.
 4. 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.
 5. INSTALL AND LEVEL TANK.
 6. FILL THE SEPARATOR WITH WATER UP TO THE REQUIRED HEIGHT OF THE BUOYANCY SLAB (HBS)-REFER TO TABLE BELOW.
 7. 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.
 8. FILL SEPARATOR WITH WATER UP TO THE INLET/OUTLET PIPES.
 9. 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.
 10. 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.
 11. INSTALL EXTENSION COLLAR, USE FIBERGLASS SIKAFLEX CAULKING FOR WATERTIGHT SEAL IF DESIRED. INSTALL CLEANOUT EXTENSIONS.
 12. 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.
 13. INSTALL COVERS
 14. FOR TRAFFIC LOADING CONDITIONS ONLY, POUR REINFORCED BEARING SLAB AT SURFACE GRADE. FOR TRAFFIC LOADING CONSULT WITH STRUCTURAL ENGINEER.
 15. U.S. PATENT # 5, 746, 912, CDN. PATENT #2, 195, 822.

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Revisions:

2022-07-13	ISSUED FOR ADD M-01
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Drawn: KL/KE
Checked: JCY/AJG

Project No: 21036
SCALE: N.T.S.

Contents:
**MECHANICAL
DETAILS**

M303

FOR QUESTIONS, CALL THE
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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#5353833

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"	1950	798	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	EFFICIENCY @ 7 MICRONS	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM 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"	ANSUL R-102	3.0/3.0	SC-311110MA	1 LIGHT 1 FAN	YES	1070 LBS

HOOD OPTIONS

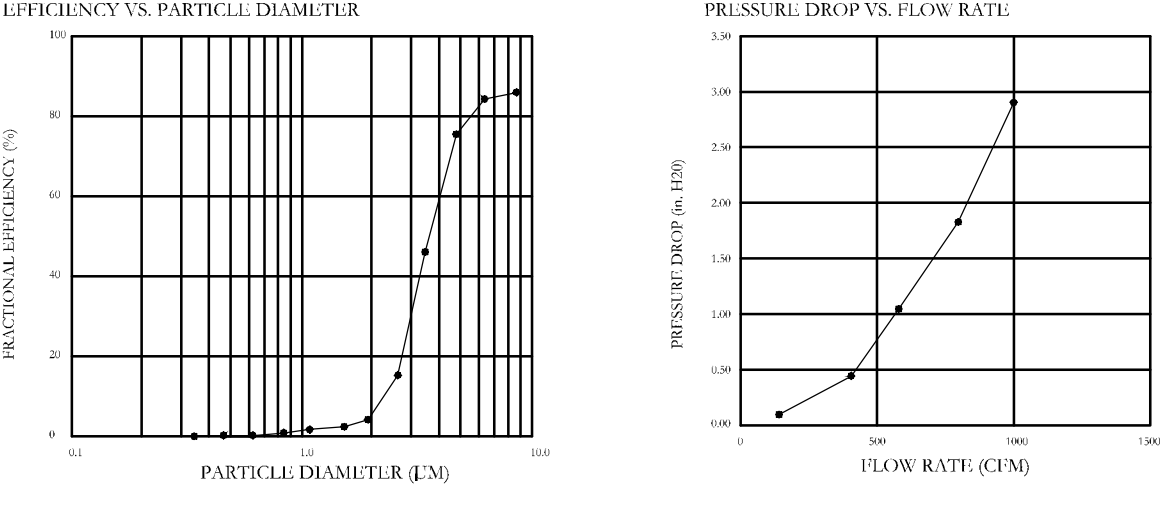
HOOD NO	TAG	OPTION
1		FIELD WRAPPER 6.00" HIGH FRONT, LEFT, RIGHT. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. INSULATION FOR BACK OF HOOD. FULL DIMENSION HANGING BRACKET - FRONT.

PERFORATED SUPPLY PLENUM(S)

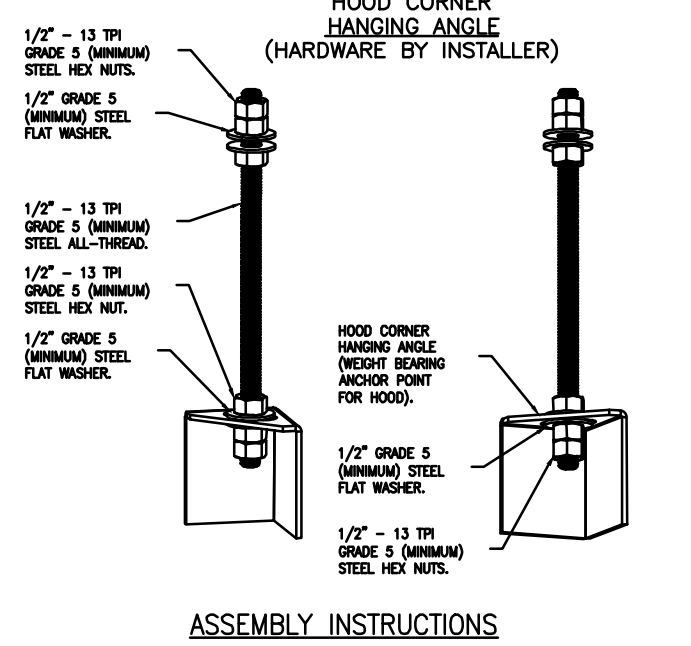
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG	DIA	CFM
1		Front	183"	22"	6"	MUA	10"	28"	850	0.166"
						MUA	10"	28"	850	0.166"
						AC	10"	28"	850	0.166"
						AC	8"	114	0.041"	
						AC	8"	114	0.041"	
						AC	8"	114	0.041"	
						AC	8"	114	0.041"	
						AC	8"	114	0.041"	
						AC	8"	114	0.041"	
						AC	8"	114	0.041"	

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.

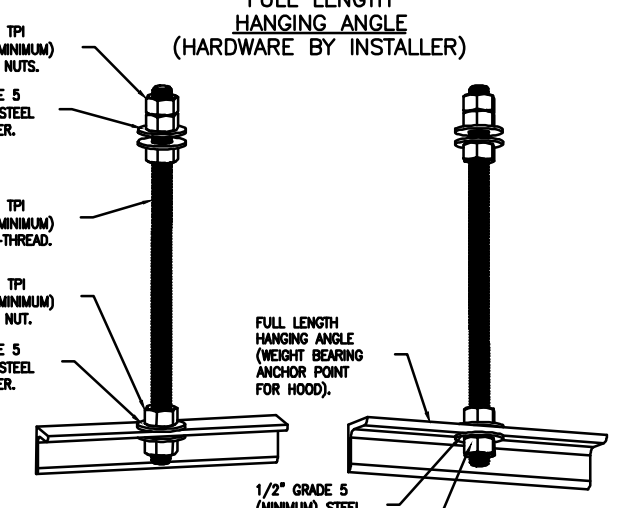


CAPTIVATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



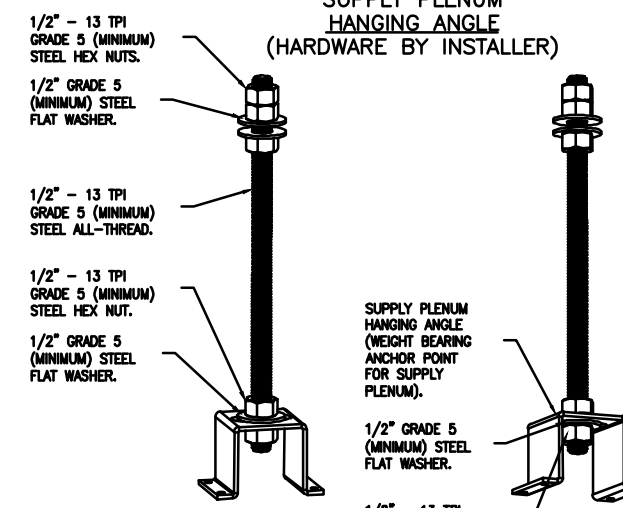
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION 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.



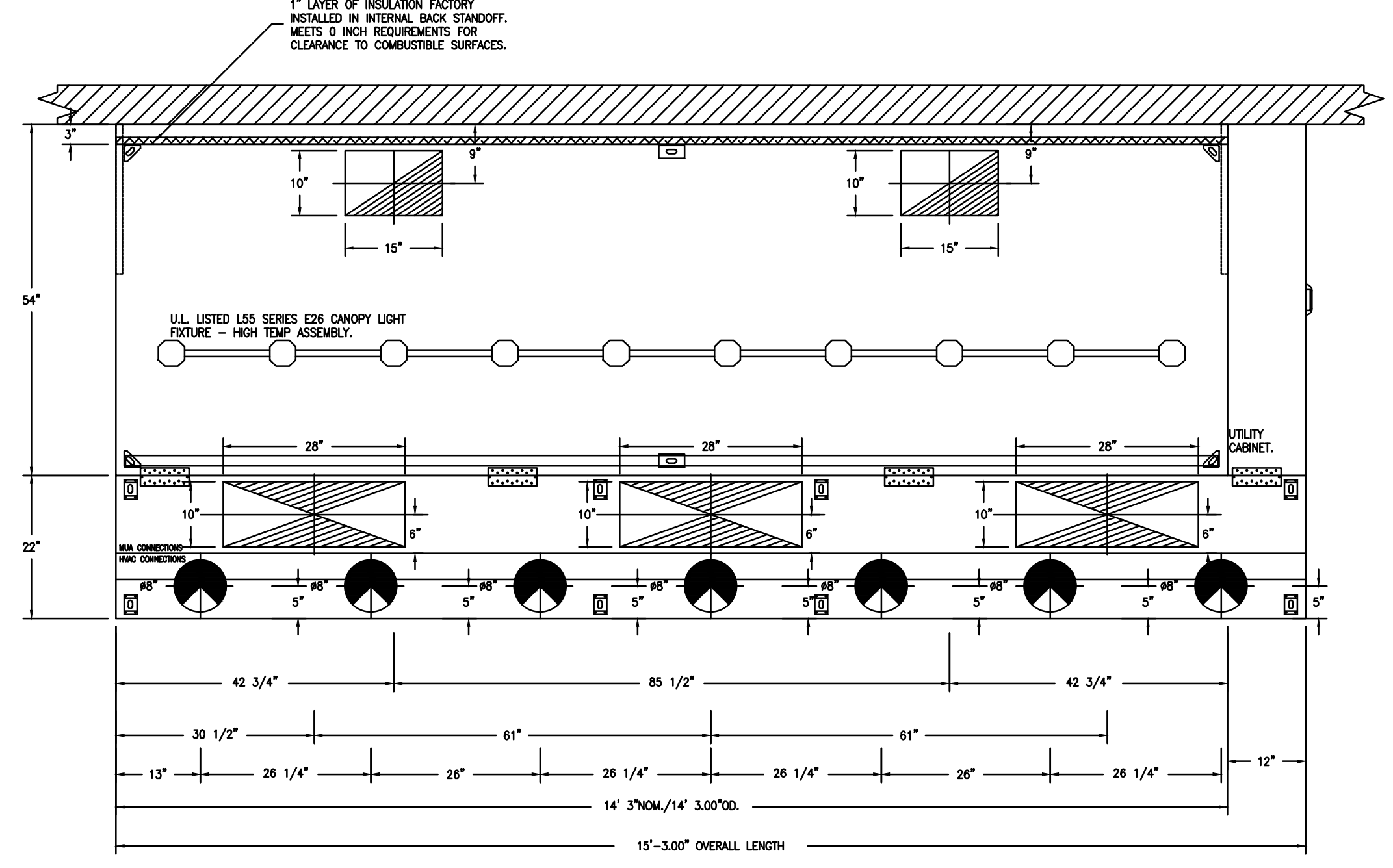
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HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED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



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

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

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DATE: 3/16/2022
DWG.#: 5353833
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
1

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2022-10-04	ISSUED FOR CONSTRUCTION

Drawn: KL/KE
Checked: JCY/AJG

Project No.
21036

Contents:
KITCHEN EXHAUST SYSTEM DETAILS

EXHAUST FAN INFORMATION - JOB#5353833

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	CAPTIVEARE	3200	1.200	780	ODP,PREMIUM	5.000	1.3030	3	575	5.0	727 FPM	264	14.8
2	EF-2	1	DR12HFA	CAPTIVEARE	350	0.600	1429	TEAO-ECM	0.250	0.1270	1	115	2.9		49	8.9

MUA FAN INFORMATION - JOB#5353833

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	0.450	2021	ODP,PREMIUM	2.000	1.3010	3	575	2.1	4.2A	15A	520	21

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	225650	207598	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
2	EF-2	1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	12-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), COW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	LOW FIRE START
		1	AC INTERLOCK RELAY - 24VAC COIL
		1	UPSTREAM PILOT FOR SIZES 1-3
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	EXHAUST FAN STARTER POWERED BEFORE AIRFLOW IN SIZE 1-3 HEATER
		1	FREZZESTAT (10)
1	LOAD REACTOR MOUNTED IN FAN		
1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY		
1	UNIT MOUNTED VFD FOR USE WITH ECPM03		
1	2 YEAR PARTS WARRANTY		

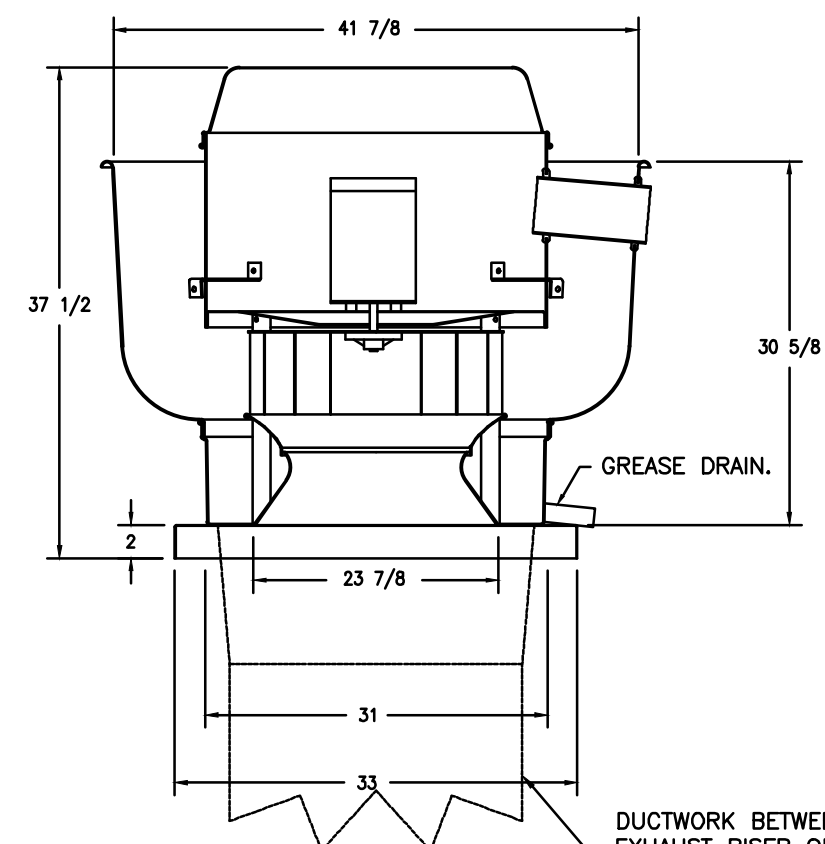
FAN ACCESSORIES

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	

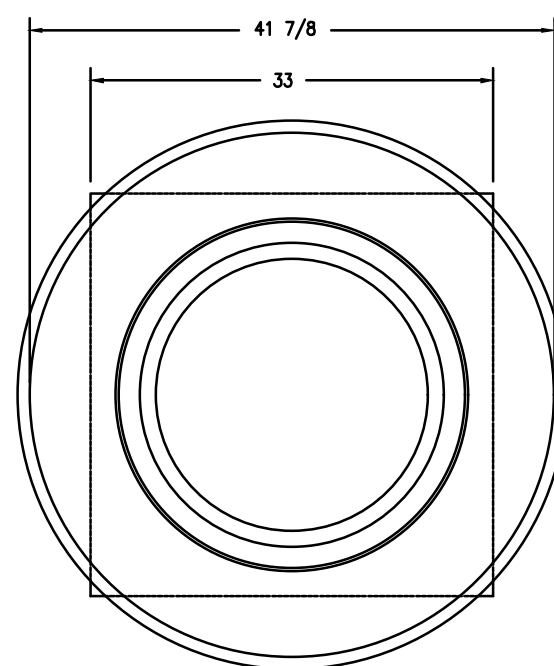
CURB ASSEMBLIES

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)



DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS).



TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL782 AND ULC-5845
- 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

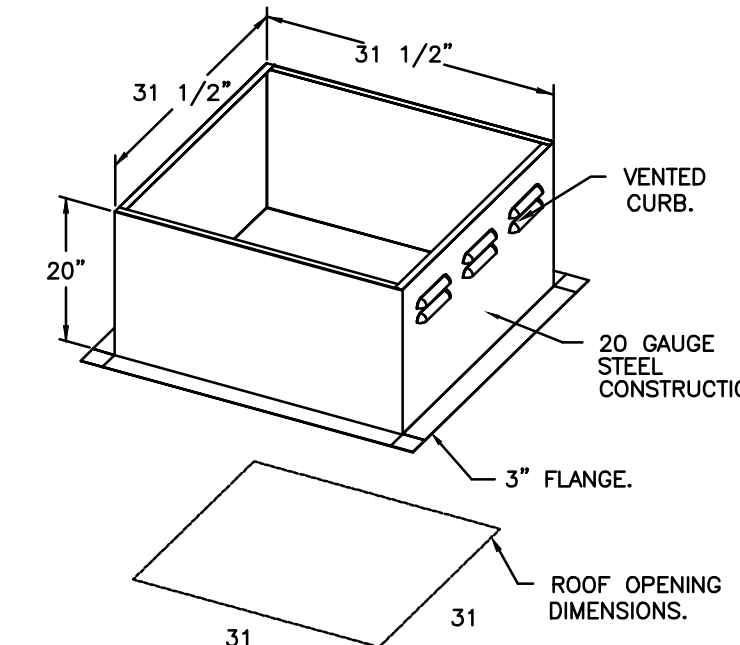
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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

REVISIONS

DESCRIPTION	DATE

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M310

