



### MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION
●	HW	HOT WATER
○	CW	COLD WATER
—○—		HOOK-UP TO EQUIPMENT
○	W	DIRECT WASTE
○	IW	INDIRECT WASTE
○	FD	FLOOR DRAIN
○	FFD	FUNNEL FLOOR DRAIN
■	FSHG	FLOOR SINK W/HALF GRATE
■	FSFG	FLOOR SINK W/FULL GRATE
■	G	GAS
⊗	CR	CONDENSATE RETURN
○		PVC FOR BEVERAGE LINES
○		PVC FOR REFRIGERATION LINES
①		SCHEDULE ITEM NUMBER

### GENERAL ABBREVIATIONS

ABBREV.	DESCRIPTION
ARCH	ARCHITECT
GC	GENERAL CONTRACTOR
KEC	KITCHEN EQUIPMENT CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
HVAC	HEATING / VENTILATION CONTRACTOR
RC	REFRIGERATION CONTRACTOR
PLBG	PLUMBING
ELEC	ELECTRICAL
AFF	ABOVE FINISHED FLOOR
CLG	CEILING
RFD/RFS	RUN TO FLOOR DRAIN/SINK CONNECTION
CONN	CONNECTION
V	VOLTS
PH	PHASE
A	AMPERES
C	CIRCUIT
W	WATTS
KW	KILOWATT
HP	HORSEPOWER
COMP	COMPRESSOR / CONDENSING UNIT
LCP	LOAD CENTER PANEL
BP	BREAKER PANEL

**TRADES TO UTILIZE EXISTING UTILITIES WHENEVER POSSIBLE**

**SEE SHEETS K-0, KS-1 & KS-2 FOR EQUIPMENT SCHEDULE, NOTES & DETAILS**

**ALL GAS-FIRED EQUIPMENT ON THIS PROJECT IS NATURAL GAS**

### SCHEDULE MECHANICAL ROUGH-IN NOTES

MA. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL BACK FLOW PREVENTION DEVICE FOR THIS PIECE OF EQUIPMENT.

MC. BOELTER WILL PROVIDE AND THE PLUMBING CONTRACTOR WILL INSTALL A WATER CONDITIONER FOR THIS PIECE OF EQUIPMENT.

MD. SENSIBLE AND LATENT HEAT DISSIPATION FROM THE DISHWASHER ARE LISTED BELOW. VENTILATE THE DISHWASHER ACCORDINGLY.

LATENT HEAT	SENSIBLE HEAT
2,300 BTU/HR	1,000 BTU/HR

THESE VALUES ARE TO CALCULATE VENTILATION REQUIRED IN ADDITION TO EXHAUST LISTED IN SCHEDULE. THIS HEAT IS ADDITIONAL HEAT NOT EXHAUSTED THRU THE DISHWASHER EXHAUST VENTS.

ME. IF WATER EXCEEDS 5 GRAINS OF HARDNESS, THE DISHWASHER MANUFACTURER RECOMMENDS SOFTENED WATER BE PROVIDED TO THE DISHWASHER AND BOOSTER HEATER. THE DISHWASHER WILL USE 000 GPM OF HOT WATER AND WILL OPERATE APPROXIMATELY 00 HOURS PER DAY. VERIFY HOURS OF USE WITH OWNER.

MF. THIS PIECE OF EQUIPMENT HAS SPECIAL WATER QUALITY REQUIREMENTS AS SET BY THE MANUFACTURER. IN ORDER TO MINIMIZE SERVICE PROBLEMS A WATER TREATMENT SYSTEM (SOFTENER) IS RECOMMENDED WHEN THE TOTAL DISSOLVED SOLIDS (HARMFUL CONCENTRATIONS OF MINERALS) EXCEEDS THE MANUFACTURER'S RECOMMENDED LIMITS.

MG. BOELTER TO PROVIDE AND PLUMBING CONTRACTOR TO INSTALL A GAS QUICK-DISCONNECT FLEXIBLE HOSE FOR THIS PIECE OF EQUIPMENT. SEE DETAIL RI-1000

MH. AIR COOLED REFRIGERATION EQUIPMENT IN AN ENCLOSED STRUCTURE REQUIRES A MINIMUM VENTILATION OF 1,000 CFM PER HORSEPOWER. INTERIOR TEMPERATURE OF COMPRESSOR ENCLOSURE SHOULD NOT EXCEED 90 DEG. F.

MM. RUN REFRIGERATION LINES THRU SLEEVE DOWN FROM ABOVE IN WALL AND STUB-OUT OF WALL. REMOTE REFRIGERATION SYSTEM IS BY REFRIGERATION CONTRACTOR. VERIFY WITH REFRIGERATION CONTRACTOR ALL FINAL SLEEVE SIZES AND REFRIGERATION LINE ROUTES.

### GENERAL MECHANICAL ROUGH-IN NOTES

- HIGH-PRESSURE GAS CANNOT BE USED. PLUMBING CONTRACTOR TO REGULATE GAS PRESSURE TO PROVIDE BETWEEN 6" & 14" W.C. GAS PRESSURE BEFORE THE REGULATOR AT THE EQUIPMENT. THEN REGULATE THE PRESSURE DOWN TO PRESSURE RECOMMENDED BY THE APPLIANCE MANUFACTURER.
- ALL FINAL CONNECTIONS SHOWN ON THIS DRAWING ARE ACTUAL REQUIREMENTS OF THE EQUIPMENT AND ARE SHOWN IN THEIR APPROXIMATE LOCATION.
- PLUMBING VENT SIZES AND LOCATIONS ARE TO BE DETERMINED BY THE PLUMBING CONTRACTOR.
- FLOOR DRAINS SHOWN ARE FOR EQUIPMENT USE AND GENERAL CLEANING PURPOSES, AND ARE TO BE OF THE TYPE INDICATED IN SYMBOLS UNLESS OTHERWISE REQUIRED BY LOCAL CODES.
- PLUMBING CONTRACTOR TO SUPPLY ALL VALVES, REGULATORS, TRAPS, TAIL PIECES AND OTHER MATERIAL REQUIRED TO MAKE FINAL CONNECTIONS. STOP VALVES SHALL BE PROVIDED IN ALL PIPING TO KITCHEN AND OTHER EQUIPMENT OR FIXTURES AHEAD OF OPERATING LEVER HANDLES OR FAUCETS.
- ALL VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR TO CENTERLINE OF ROUGH-IN, UNLESS NOTED OTHERWISE.
- PLUMBING CONTRACTOR TO EXTEND ALL INDIRECT WASTE ( I.W. ) TO FLOOR DRAINS OR FLOOR SINKS EXCEPT WALK-IN REFRIGERATOR/FREEZER BLOWER COIL DRAIN LINES WHICH WILL BE EXTENDED TO FLOOR DRAINS BY REFRIGERATION CONTRACTOR. ALL INDIRECT WASTE LINES TO BE RUN IN ACCORDANCE WITH ALL LOCAL CODES.
- PLUMBING ENGINEER SHALL DETERMINE MAIN GAS LINE DROPS, SIZES AND ROUTING TO CONNECTION POINTS. ALL GAS ROUGH-INS SHOWN ARE CONNECTION POINTS ONLY.
- PLUMBING CONTRACTOR TO PROVIDE ALL GAS FIRED EQUIPMENT WITH INDIVIDUAL MANUAL SHUT-OFF VALVES.
- REFRIGERATION CONTRACTOR SHALL INSTALL ALL REFRIGERATION LINES BETWEEN BLOWER COILS AND/OR COLD PANS AND REMOTE COMPRESSORS FOR ALL REFRIGERATION EQUIPMENT AND/OR ICE MACHINES.
- PLUMBING CONTRACTOR TO PROVIDE ALL PVC LINES USED FOR BEVERAGE AND REFRIGERATION RUNS. PROVIDE A MINIMUM OF 24" SWEEP BENDS FOR ALL ELBOWS, AND VERIFY SIZE REQUIREMENTS WITH BEVERAGE/REFRIGERATION SUPPLIER.
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY FITTINGS, PIPING NIPPLES, STEAM REGULATORS, BAKELITE HANDLED STEAM VALVES ( GLOBE AND/OR GATE ), SHUT OFF VALVES, STEAM TRAP ASSEMBLIES, ETC., TO PROVIDE COMPLETE OPERABLE SYSTEM FOR STEAM COOKING EQUIPMENT, EXCEPT WHERE NOTED OTHERWISE. ALL EXPOSED FITTINGS, ETC. AS STATED ABOVE TO BE CHROME PLATED.
- GENERAL CONTRACTOR TO PROVIDE ALL ROOF, CEILING, WALL AND FLOOR HOLES AND ANY REQUIRED SLEEVES ( FOR PVC PIPE, BEVERAGE AND/OR REFRIGERATION LINES INSTALLED BY OTHERS ), AND SEAL THEM IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES. GENERAL CONTRACTOR TO PROVIDE ALL DUCT FIRE SEPARATIONS, ENCLOSURES, WRAPPINGS, ETC., IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND FIRE CODES.
- PLUMBING ENGINEER TO VERIFY AND PLUMBING CONTRACTOR TO PROVIDE ANY REQUIRED GREASE TRAPS/INTERCEPTORS WHETHER THEY ARE POINT-OF-USE, KITCHEN OR BUILDING TYPE, IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES.
- ALL DIMENSIONS ARE CUMULATIVE FROM AN ESTABLISHED BUILDING COLUMN LINE OR WALL AS INDICATED.
- KITCHEN SINK FAUCETS AND LEVER DRAINS THAT ARE FURNISHED LOOSE BY BOELTER ARE TO BE INSTALLED BY THE PLUMBING CONTRACTOR.
- HEALTH CODES REQUIRE THAT ALL PLUMBING BE ENCLOSED IN WALLS OR FLOOR AND THAT EXPOSED PIPING RUNS BE AS SHORT AS POSSIBLE. EXPOSED HORIZONTAL PIPING MUST BE 6" ABOVE THE FLOOR AND AT LEAST 1" OFF THE WALL. ALL EXPOSED PIPING TO BE CHROME PLATED.
- VERIFY ALL REQUIREMENTS WITH MECHANICAL ENGINEER'S DRAWINGS. REFER TO SHEET FS/COVER SHEET FOR ADDITIONAL INFORMATION.
- PLUMBING CONTRACTOR TO EXTEND HIS PIPING AT LEAST 1" FARTHER OUT OF ANY WALL BELOW AN EXHAUST HOOD THAT HAS A S/S INSULATED WALL PANEL UNDER IT. VERIFY THE EXISTENCE OF THIS PANEL WITH BOELTER OR THE PROJECT CUT BOOK.
- PLUMBING CONTRACTOR TO PROVIDE INTERCONNECTION OF PIPING FOR ANY EQUIPMENT THAT COMES IN SECTIONS AND MUST BE ASSEMBLED.
- ALL EXHAUST HOODS, UNLESS NOTED OTHERWISE, ARE SUPPLIED BY BOELTER AND INSTALLED BY THE GENERAL CONTRACTOR.

**1 FOODSERVICE MECHANICAL ROUGH-IN PLAN**  
KM-1

1/4"=1'-0"

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SCALE 1/4"=1'-0"  
SALES JMW  
DESIGN RM  
DATE 09.11.23  
REV.  
REV.  
REV.

NATION'S BURGERS  
FRISCO, TEXAS  
FOODSERVICE FIXTURE PLAN

PROJECT NO.  
23-154-10  
SHEET  
KM-1

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