

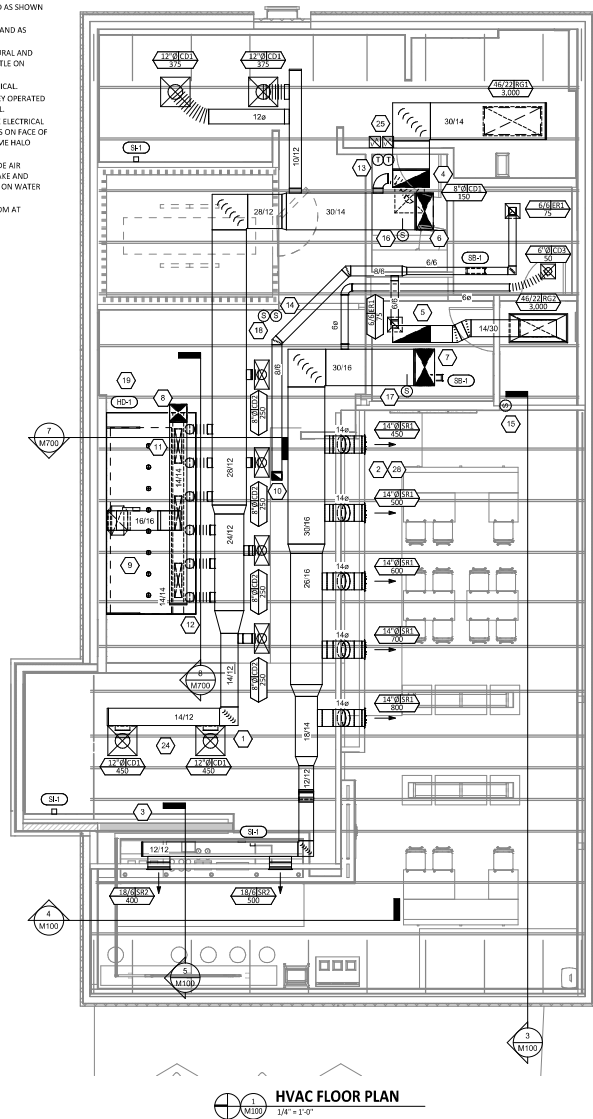
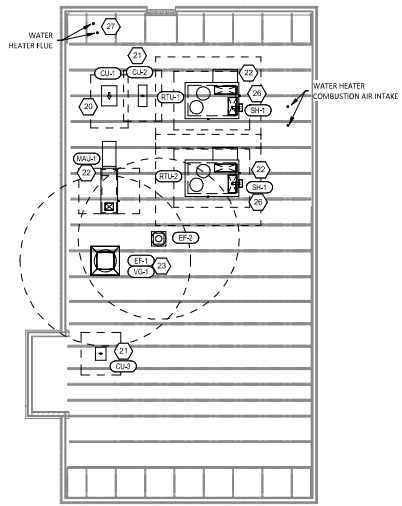
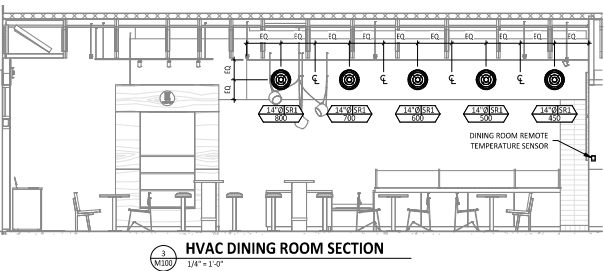
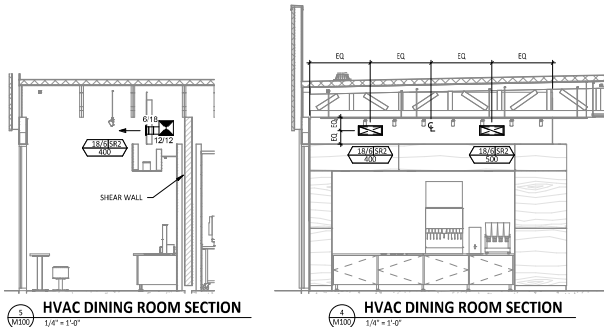


**HVAC PLAN NOTES**

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PANTRY 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.
- 30/14 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.
- 30/14 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.
- 30/14 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 30/16 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 15/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUS AT ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- 8" SM. DUCT DOWN TO AG PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- INSTALL SINGLE-GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TENS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAILS 8/E7/20.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TENS FOR RTU-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E7/10.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TENS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E7/10.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TENS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E7/10.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TENS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E7/10.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- 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 THE 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, 4, AND 9/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.

**HVAC PLAN NOTES**

- 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.
- 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.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE WRECGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. 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.
- INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL LV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOORS THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
- MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLEU TERMINATION AND OUTSIDE AIR INTAKE. MAINTAIN CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLENUM DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLEU AND COMBUSTION AIR TERMINATIONS.
- ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.



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STORE NO.: 5159  
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NICHOLASVILLE, KY 40356

Issue Reason:	08-28-2024	PERMIT SET
	06-04-2025	CONSTRUCTION SET

Drawn:	Checked:
JEI	CKJ

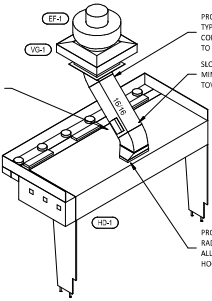
Project No:  
2301135

Contract:  
HVAC PLAN

**M100**



GREASE DUCT CLEANOUTS SHALL BE UL-LISTED DUCTMATE PREINSULATED CLEANOUT DOORS MODEL D128U LVSBI FOR DUCTS AT LEAST 17" TALL AND DW128UWSBI FOR DUCTS LESS THAN 17" TALL. CLEANOUTS SHALL BE FURNISHED BY TENANT. COORDINATE NUMBER AND SIZE REQUIRED WITH ENVIRONMENTAL. INSTALL AS SHOWN IN THE HVAC FLOOR PLAN.

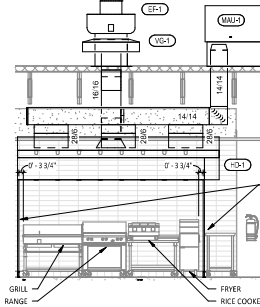


PROVIDE FIRE RESISTANT INSULATION ON TYPE I HOOD EXHAUST DUCT FROM CONNECTION TO HOOD TO CONNECTION TO EXHAUST FAN PER DETAIL 3/M700.

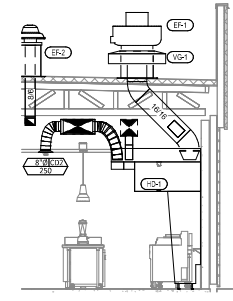
SLOPE HORIZONTAL GREASE DUCT A MINIMUM OF 1/4" PER FOOT DOWN TOWARD THE CONNECTION TO THE HOOD.

PROVIDE RADUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5 X THE DUCT DIMENSION AT ALL CHANGES OF DIRECTION IN THE TYPE I HOOD EXHAUST DUCT.

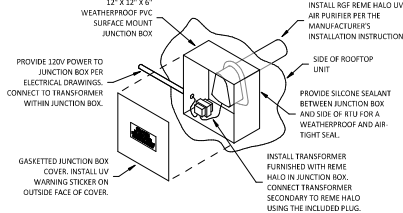
**HOOD EXHAUST ISOMETRIC**  
1/4" = 1'-0"



**HOOD ELEVATION**  
1/4" = 1'-0"



**DUCT SECTION AT HOOD**  
1/4" = 1'-0"

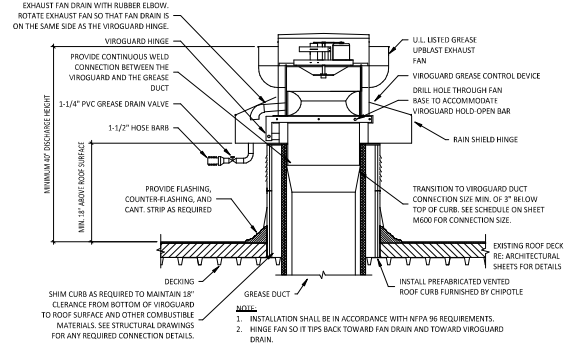


INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:

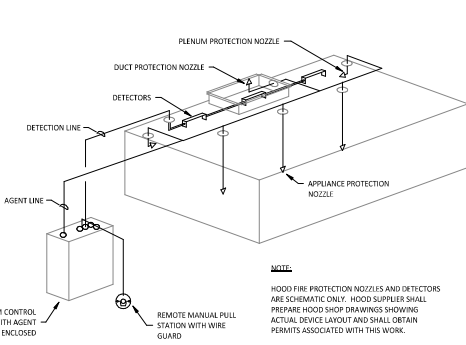
**TRAPE:** INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL ENCHARGE SUPPLY AIR OPENING.

**WORK:** INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

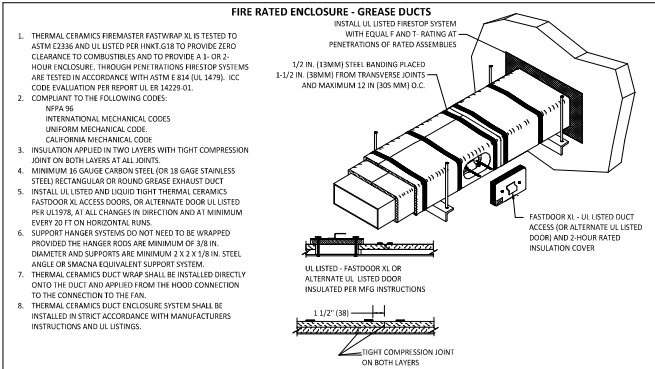
**UV AIR PURIFIER INSTALLATION**  
NOT TO SCALE



**GREASE EXHAUST FAN**  
NOT TO SCALE

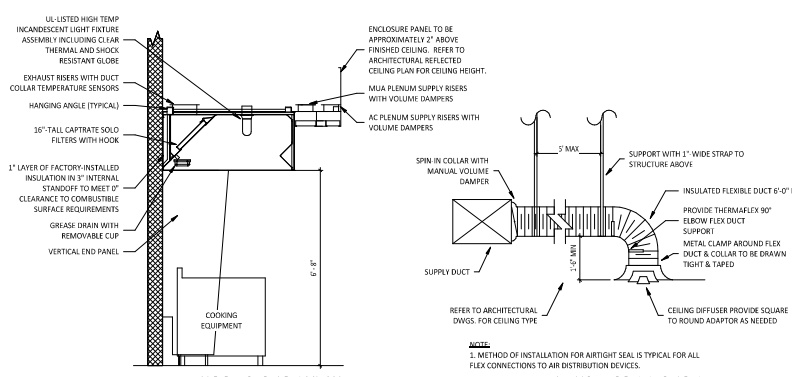


**FIRE SUPPRESSION SYSTEM SCHEMATIC**  
NOT TO SCALE



1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2386 AND UL LISTED PER INHT G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRE STOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 834 (UL 1479). ICC CODE EVALUATION PER REPORT UL E8 84209-01.
2. COMPLIANT TO THE FOLLOWING CODES:
  - NFPA 96
  - INTERNATIONAL MECHANICAL CODES
  - UNIFORM MECHANICAL CODE
  - CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM IS GRADE CARBON STEEL (OR 38 GAUGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT.
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS. OR ALTERNATE DOOR UL LISTED PER UL1578. AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SIMILAR EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ON THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.

**FIREMASTER DUCT WRAP - UL HNKT-G18**  
NOT TO SCALE



**HOOD SECTION VIEW**  
NOT TO SCALE

**DIFFUSER CONNECTION**  
NOT TO SCALE

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Issue/Revised:	08-28-2024	PERMIT SET
	06-04-2025	CONSTRUCTION SET

Drawn:	Checked:
JEI	CUK
Project No:	2301135
Contract:	HVAC DETAILS

M700

**SECTION 1505S - COMMON PIPING REQUIREMENTS**

- PART 1 - GENERAL**  
**1. SECTION REQUIREMENTS**  
 A. Comply with the requirements of the Building Code and the local authority having jurisdiction.  
**PART 2 - PRODUCTS**  
**2.1 SUPPORTING DEVICES**  
 A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.  
 B. Building Attachments: Powder actuated type, drive pin attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approved for fire protection systems.  
 C. Mechanical Anchor Fasteners: Insert-type attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approved for fire protection systems.  
**PART 3 - EXECUTION**  
**3.1 INSTALLATION**  
 A. Install piping free of sag and bends.  
 B. Install fittings for changes in direction and branch connections.  
 C. Install sleeves for pipes passing through concrete and masonry walls, gypsum board partitions, and concrete floor and roof slabs.  
 D. Exterior Wall, Pipe Penetrations: Mechanical sleeve seals installed in steel or cast iron pipes for wall sleeves.  
 E. Fire Barrier Penetrations: Seal pipe penetrations with through-penetration firestop systems.  
 F. Install unions adjacent to each valve and at final connection to each piece of equipment.  
 G. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.  
 H. Install dielectric coupling and insulate fittings to connect piping materials of dissimilar metals in water piping.  
 I. Provide full ring escutcheons as plumbing penetrations through walls or ceilings. Tightly seal escutcheons to the adjacent surface.  
**3.2 HANGERS AND SUPPORTS**  
 A. Install building attachments within concrete or structural steel. Install additional attachments at concentrated loads, including valves, flanges, joints, strainers, expansion joints, and at changes in direction of piping.  
 B. Install powder actuated drive pin fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.  
 C. Install mechanical anchor fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.  
 D. Support fire protection system piping independent of other piping.  
 E. Load Distribution: Install hangers and supports to piping live and dead loading and stresses from movement will not be transmitted to connected equipment.  
**END OF SECTION 1505S**

**SECTION 15080 - MECHANICAL INSULATION**

- PART 1 - GENERAL**  
**1. SECTION REQUIREMENTS**  
 A. Submittals: None.  
 B. Quality Assurance: Label with maximum flame-spread rating of 25 and maximum smoke developing rating of 50 according to ASTM E 84.  
**PART 2 - PRODUCTS**  
**2.1 PIPE INSULATION**  
 A. Performed Glass Fiber Pipe Insulation: ASTM C 547, Class I, with factory applied, all purpose, vapor retarder jacket.  
 B. Polyethylene Pipe Insulation: Unidirectional polyethylene, performed pipe insulation. Comply with ASTM C 534, Type I, except for density.  
**PART 3 - EXECUTION**  
**3.1 INSTALLATION**  
 A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.  
 B. Insulate fittings, valves, and specialties.  
 C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.  
 D. Coat glass fiber pipe insulation ends with vapor barrier coating.  
 E. Roof Penetrations: Apply insulation into interior applications to a point even with the top of the roof flashing.  
 F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.  
 G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.  
 H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.  
 I. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.  
 J. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.  
 K. Interior Piping System Applications: Insulate the following piping systems:  
 1. Domestic cold, hot, and recirculation water pipes.  
 2. Exposed sanitary drains and water supply pipes for public hand sinks.  
 3. Refrigerant piping.  
 L. Do not apply insulation to the following systems, materials, and equipment:  
 1. Fixable connections.  
 2. Fire protection piping systems.  
 3. Sanitary drainages and vent piping.  
 4. Chrome plated pipes and strainers, except for plumbing fixtures for the disabled.  
 5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow regulators.  
 M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:  
 1. Domestic Hot and Recirculation water pipes: 1-inch preformed glass fiber pipe insulation.  
 2. Domestic Cold Water: 1/2-inch preformed glass fiber pipe insulation.  
 3. P-Trap and Toilet Supplies for public hand sinks: Non-compliant pre-formed insulation.  
**END OF SECTION 15080**

**SECTION 15110 - VALVES**

- PART 1 - GENERAL (Not Applicable)**  
**PART 2 - PRODUCTS**  
**2.1 GENERAL DUTY VALVES**  
 A. End Connections: Threads shall comply with ANSI B1.20.1. Flanges shall comply with ANSI B16.1 for cast iron valves and ANSI B16.24 for bronze valves. Solder joint connections shall comply with ANSI B16.18.  
 B. Ball Valves: Rated for 150 psig saturated steam pressure, 400 psig WOG pressure, 2 piece construction, with bronze body, standard (or regular) port, chrome plated brass ball, replaceable "Teflon" or "TPE" seats and seals, blowout proof stem, and vinyl covered steel handle.  
 C. Plug Valves: Rated at 150 psig WOG; bronze body, with straightaway pattern, square head, and threaded ends.  
 D. Swing Check Valves: Class 125, cast bronze body and cap; with horizontal swing, Y pattern, and bronze disc.  
 E. Valves for Copper Tube: Threaded ends, except provide threaded ends for heating hot water and low pressure steam service.  
**F. Valves for Steel Pipe: Threaded ends.**  
**PART 3 - EXECUTION**  
**3.1 INSTALLATION**  
 A. Use gate and ball valves for shutoff duty and ball for throttling duty.  
 B. Locate valves for easy access and provide necessary support where necessary.  
 C. Install accessible valves for each fixture and item of equipment.  
 D. Install valves in horizontal piping with stem at or above center of pipe.  
 E. Install valves in position to allow full stem movement.  
 F. Install check valves for proper direction of flow in horizontal position with hinge pin level.  
**END OF SECTION 15110**

**SECTION 15140 - DOMESTIC WATER PIPING**

- PART 1 - GENERAL**  
**1. SECTION REQUIREMENTS**  
 A. Performance Requirements: Unless otherwise indicated minimum pressure requirements for water piping are as follows:  
 1. Service Entrance Piping: 100 psig  
 2. Branch and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.  
 3. Comply with NSF 14 "Plastic Piping Components and Materials."  
 C. Comply with NSF 61 "Drinking Water System Components - Health Effects."  
**PART 2 - PRODUCTS**  
**2.1 PIPES AND TUBES (See Material Schedule on sheet R101 for where those materials are to be used)**  
 A. Hard Copper Tubing: ASTM B 88, Types 1 and K, water tube, drawn temper.  
 B. PVC Plastic Water Pipe: ASTM D 1785, Schedule 40, plain ends.  
**2.2 FITTINGS**  
 A. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.22.  
 B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.  
 C. Bronze Flanges: ASME B 16.24, Classes 150 and 300.  
 D. Copper Unions: ASME B 16.18, cast copper alloy body, hexagonal stock, with ball and socket joint, metal to metal sealing surfaces, and solder joint, threaded, or solder joint and threaded ends. Threading complying with ASME B 1.20.1.  
**2.3 JOINING MATERIALS**  
 A. Solder: Lead Free: ASTM B 32, lead free.  
 B. Braising Filler Metals: AWS A5.8, allow to suit system requirements.  
 C. Solvent Cements: As recommended by manufacturer.  
 D. Plastic Pipe Seals: ASTM J 477, elastomeric gasket.  
**PART 3 - EXECUTION**  
**3.1 VALVE APPLICATIONS**  
 A. Install gate valves close to main on each branch and riser serving two or more plumbing fixtures or equipment connections and where indicated.  
 B. Install gate or ball valves on inlet to each plumbing equipment item, on each supply to each plumbing fixture not having traps or shutoffs, and elsewhere as indicated.  
 C. Install drain valve at base of each riser, at low points of horizontal runs, and where required to drain water distribution piping system.  
 D. Install swing check valves discharge side of each pump and elsewhere as indicated.  
 E. Install ball valves in each hot water circulating loop and discharge side of each pump.  
**3.2 PIPING INSTALLATIONS**  
 A. Install hangers and supports at intervals indicated in the applicable plumbing code and as recommended by pipe manufacturer.  
 B. Support vertical piping at each floor.  
**3.3 INSPECTING AND CLEANING**  
 A. Inspect and test piping systems following procedures of authorities having jurisdiction.  
 B. Clean and disinfect water distribution piping following procedures of authorities having jurisdiction.  
**END OF SECTION 15140**

**SECTION 15150 - SANITARY WASTE AND VENT PIPING**

- PART 1 - GENERAL**  
**1. SECTION REQUIREMENTS**  
 A. Minimum Pressure Requirement for Soil, Waste and Vent: 10 feet head.  
 B. Comply with NSF 14 "Plastic Piping Components and Related Materials".  
**PART 2 - PRODUCTS**  
**2.1 PIPES AND TUBES**  
 A. PVC Plastic, DWV Pipe: ASTM D 2665, Schedule 40, plain ends.  
**2.2 FITTINGS**  
 A. PVC Plastic, DWV Pipe Fittings: ASTM D 2665, made to ASTM D 3331; socket type; drain, waste, and vent pipe patterns.  
**PART 3 - EXECUTION**  
**3.1 PIPING INSTALLATION**  
 A. Install cleanout and extension to grade at connection of building sanitary drain and building sanitary sewer.  
 B. Locate drainage piping smooths as close as possible to bottom of floor slabs supporting fixtures or drains.  
**3.2 INSPECTION**  
 A. Inspect and test piping systems following procedures of authorities having jurisdiction.  
**END OF SECTION 15150**

**SECTION 15198 - NATURAL GAS PIPING**

- PART 1 - GENERAL**  
**1. SECTION REQUIREMENTS**  
 A. Quality Assurance: Comply with NFPA 54 and the Plumbing Code.  
**PART 2 - PRODUCTS**  
**2.1 PIPE, TUBE, AND SPECIALTIES**  
 A. Steel Pipe: ASTM A 53, Type S (Seamless), Grade B, Schedule 40, plain ends.  
 B. Malleable Iron Threaded Fittings: ASME B16.3, Class 150.  
 C. Manual Valves: Comply with standards listed or appropriate, to ANSI Z21.15.  
 D. Gas Stops: AGA certified, bronze body, plug type with bronze plug, for 2-psig or less natural gas. Include AGA stamp, flat or square head or lever handle, and threaded ends complying with ASME B1.20.1.  
 E. Gas Valves: 150-psig WOG, cast-iron or bronze body, bronze plug, corrosion resistant pattern, square head, tapered plug type.  
 F. Gas Pressure Regulators: ANSI Z21.18, angle stage, steel jacketed, corrosion resistant pressure regulators. Include atmospheric vent, elevation compensator, regulator pressure rings, inlet and outlet pressures, and flow volume in cubic feet per hour of natural gas at specific gravity are as indicated.  
 G. Low Gas Pressure Regulators: Inlet pressure rating not less than system pressure.  
 H. Flexible Connectors: ANSI Z21.26, copper alloy.  
 I. Strainers: Bronze body, Y pattern, full size of connecting piping. Include stainless steel screens with 3/64 inch perforations, and a pressure rating of 125-psig minimum. WOG working pressure.  
**PART 3 - EXECUTION**  
**3.1 INSTALLATION**  
 A. Close equipment shutoff valves before turning off gas to premises or section of piping. Perform leakage test as specified to determine that all equipment is turned off in affected piping section.  
 B. Install shutoff valve, downstream from gas meter, outside building at gas service entrance.  
 C. Install gas stops for shutoff to appliances with NPS 2" or smaller low pressure gas supply.  
 D. Drips and Sediment Traps: Install drips at points where condensate may collect. Include outlets of gas meters. Locate where readily accessible to permit cleaning and emptying. Do not install where condensate would be subject to freezing.  
 E. Install gas piping at uniform slope of 1/16 percent upward toward risers.  
 F. Connect branch piping from top or side of horizontal piping.  
 G. Install strainers on supply side of each control valve, gas pressure regulator, solenoid valve, and elsewhere as indicated.  
 H. Install valves in accessible locations, protected from damage.  
 I. Install gas valve upstream from each gas pressure regulator. Where two gas pressure regulators are installed in series, valve is not required at second regulator.  
 J. Connect gas piping to equipment and appliances with shutoff valves and unions. Install gas valve upstream from and within 36 inches of each appliance using gas. Install union or flanged connection downstream from valve.  
 K. Inspect, test, and purge piping according to NFPA 54, Part 4, "Gas Piping Inspection, Testing, and Purging," and requirements of authorities having jurisdiction.  
**END OF SECTION 15198**

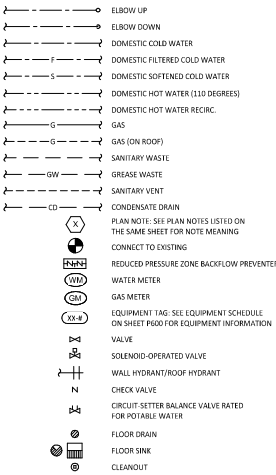
**SECTION 15410 - PLUMBING FIXTURES**

- PART 1 - GENERAL**  
**1. SECTION REQUIREMENTS**  
 Submittals: None.  
 A. Comply with requirements of Public Law 102-486, "Energy Policy Act", regarding water flow rate and water conservation of plumbing fixtures.  
 B. Comply with applicable standards below:  
 1. Enameled, Cast Iron Fixtures: ASME A112.19.1M.  
 2. National Sanitation Foundation Certification: NSF2.  
**PART 2 - PRODUCTS**  
**2.1 PIPES AND TUBES (See Material Schedule on sheet R101 for where those materials are to be used)**  
 A. Hard Copper Tubing: ASTM B 88, Types 1 and K, water tube, drawn temper.  
 B. Vitreous China Water Pipe: ASTM D 1785, Schedule 40, plain ends.  
**2.2 FITTINGS**  
 A. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.22.  
 B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.  
**2.3 EXECUTION**  
**3.1 INSTALLATION**  
 A. Install fixtures with flanges and gasket seals.  
 B. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for the disabled to reach.  
 C. Fasten wall hanging plumbing fixtures securely to supports attached to building substrate where supports are specified, and to building wall construction where no support is indicated.  
 D. Fasten floor mounted fixtures to substrate. With fixtures having holes for securing fixture to wall construction, fasten to reinforcement built into walls.  
 E. Fasten wall mounted fittings to reinforcement built into walls.  
 F. Fasten counter mounted plumbing fixtures to casework.  
 G. Treat grease trap.  
 H. Set mop basins in leveling bed of cement grout.  
 I. Install individual supply lines, supply stops, supply hangers, and tubular brass traps with cleanouts at fixture.  
 J. Install water supply stop valves in accessible locations.  
 K. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated or required by the Authority having jurisdiction.  
 L. Install full-ring escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.  
 M. Install piping connections between plumbing fixtures and pipe systems and plumbing equipment. Install insulation on supplies and drains of fixtures for the disabled.  
 N. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.  
**END OF SECTION 15410**

**SECTION 15554 - FLUES AND VENTS**

- PART 1 - GENERAL**  
**1. SECTION REQUIREMENTS**  
 A. Submittals: None.  
**PART 2 - PRODUCTS**  
**2.1 GAS VENTS**  
 A. Vent/Air intake for high efficiency domestic water heater. Follow manufacturer's recommendations for sizing and material.  
 B. Accessories: Tees, elbows, increasers, draft hood connectors, metal cap with bird barrier, adjustable roof flashing, storm collar, support assembly, chimneys, flashing spacers, and fasteners; fabricated of similar materials and design as wall-penetrating straight sections.  
**PART 3 - EXECUTION**  
**3.1 INSTALLATION**  
 A. Install vents according to stipulated minimum clearances from combustibles.  
 B. Seal between sections of positive pressure vents using only sealants recommended by manufacturer.  
 C. Support vents at intervals to support the weight of the vent and all accessories, without exceeding loading of appliances.  
**END OF SECTION 15554**

**PLUMBING SYMBOLS**



**PLUMBING ABBREVIATIONS**

- (U) DRAINING  
 ABV ABOVE  
 ADA AMERICANS WITH DISABILITIES ACT  
 ABF ABOVE FINISHED FLOOR  
 ARG ABOVE FINISHED GRADE  
 AWH AUTHORITY HAVING JURISDICTION  
 BFF BELOW FINISHED FLOOR  
 BFG BELOW FINISHED GRADE  
 BHM BACK OF HOUSE  
 CTE CONNECT TO EXISTING  
 CW DOMESTIC COLD WATER  
 DN DOWN  
 EXTS EXISTING  
 FCO FLOOR CLEANOUT  
 FLR FLOOR  
 FRM FRONT OF HOUSE  
 FS FLOOR FINISH  
 FW DOMESTIC FILTERED COLD WATER  
 GC GRAB CLEANOUT  
 GI GREASE INTERCEPTOR  
 GT GREASE TRAP  
 GE GREASE WASTE  
 GP GYPSUM BOARD  
 HW DOMESTIC HOT WATER  
 NTS NOT TO SCALE  
 L Install full-ring escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.  
 M Install piping connections between plumbing fixtures and pipe systems and plumbing equipment. Install insulation on supplies and drains of fixtures for the disabled.  
 N Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.  
**END OF SECTION 15410**

**PLUMBING ABBREVIATIONS**

- ST STORM SEWER  
 SWW DOMESTIC SOFTENED COLD WATER  
 TP TYPICAL  
 U/D UNDERGROUND  
 UNO UNLESS NOTED OTHERWISE  
 WJ WITH  
 WC WALK-IN COOLER  
 GZAS TENANTS CO2 ALARM SUPPLIER  
 GC GENERAL CONTRACTOR  
 HES TENANTS HVAC EQUIPMENT SUPPLIER  
 HES TENANTS HOOD SUPPLIER  
 KES TENANTS KITCHEN EQUIPMENT SUPPLIER  
 L JAMBLOOR  
 MFS TENANTS MUSIC SYSTEMS SUPPLIER  
 SSS TENANTS SODA POP SUPPLIER  
 TAB TENANTS TEST AND BALANCE VENDOR  
 TCC TENANTS CABLING CONTRACTOR  
 TDC TENANTS DUCT CLEANER  
 TMS TENANTS TMS SYSTEMS SUPPLIER  
 TMS TENANTS TMS BOARD SUPPLIER  
 TMS TENANTS MILLWORK SUPPLIER  
 TPB TENANTS PHONE SUPPLIER  
 TPS TENANTS PANELBOARD SUPPLIER  
 TPS TENANTS TRAILING SUPPLIER  
 TSV TENANTS SIGN VENDOR  
 UNV TENANTS UNV SANITIZER SUPPLIER  
 WCV TENANTS WALK IN COOLER SUPPLIER  
 WHS TENANTS WATER HEATER SUPPLIER

**PLUMBING GENERAL NOTES**

- A GENERAL NOTES APPLY TO PLUMBING SHEETS.  
 B PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE, LOCAL HEALTH DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVALENT CODES.  
 C PIPING LAYOUTS ON DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.  
 D CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.  
 E PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.  
 F PROVIDE STOP VALVES AT FIXTURES.  
 G PROVIDE TRAP PRIMERS FOR FLOOR DRAINS AS SHOWN ON SHEET P100.  
 H WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS 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.  
 I PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.  
 J INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND DETAIL R97700.  
 K PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LOTS AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.  
 L PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE BRASS FPE.  
 M PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLS, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.  
 N THE TERM "TURNISH" 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, ADJUSTING, MOVING, TO DEMONSTRATE, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.  
 O PRIOR TO CONNECTION TO AN EXISTING SEWER SYSTEM PERFORM A DYE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.  
 P PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.  
 Q INSTALL SHUTOFF AND ISOLATION VALVES SHOWN TO BE ABOVE CEILING IN ACCESSIBLE LOCATIONS WITHIN 12" OFF-LAY-IN CEILING.

**PLUMBING MATERIAL SCHEDULE**

APPLICATION	ALLOWABLE MATERIAL
NATURAL GAS PIPE	
CONCEALED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREAD FITTINGS
EXPOSED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREAD FITTINGS, PAINTED
SANITARY WASTE & VENT PIPE	
ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	PVC PLASTIC DWV PIPE AND FITTINGS
ABOVE GROUND, CONCEALED	PVC PLASTIC DWV PIPE AND FITTINGS
BELOW GROUND	PVC PLASTIC DWV PIPE AND FITTINGS
WATER SUPPLY PIPE	
ABOVE GRADE	TYPE L COPPER TUBE

Drawn: [ ]  
 Checked: [ ]  
 Date: 08-28-2024  
 Permit Set: 06-01-2025  
 Construction Set: [ ]

Project No: 2301135

Contract: [ ]

**PLUMBING SPECIFICATIONS**

**P010**

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Issue From: 08-28-2024  
 Permit Set: 06-01-2025  
 Construction Set: [ ]

Approved: [ ]

**PLUMBING SUPPLY PLAN NOTES**

- CONNECT TO EXISTING 1-1/2" DOMESTIC WATER LINE IN LOCATION SHOWN.
- PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 102-2-202 CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
- PROVIDE WATER HEATERS DWH-1 AND DWH-2 PER DETAIL 1/9700.
- PROVIDE WATER METERS MOUNTED TO WALL PER DETAIL 1/9700. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
- 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 0.45" ID (BRASS CRAFT 5L12-220A-F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
- PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF. DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- CONNECT TO EXISTING 2-1/2" GAS LINE IN LOCATION SHOWN.
- PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 1/9700.
- SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/9700. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
- PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.
- PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN ON DETAIL 1/47700.
- PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/9700.
- CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.

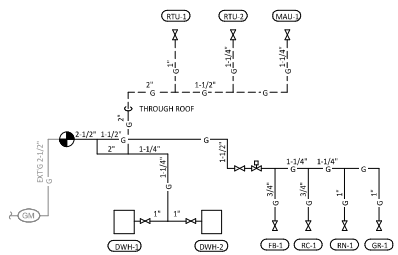
**PLUMBING SUPPLY PLAN NOTES**

- PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFL58-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK. FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOP TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
- PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
- PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/9700.
- PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE CONC. FRYER IS SECURED INTO PLACE.
- PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.45" ID (BRASS CRAFT 5L12-220A-F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
- INSTALL RGF IM58 ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
- PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WASH CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN. MAKE FINAL CONNECTION TO PREP SINK FAUCET USING 3/4" BRAIDED STAINLESS STEEL WATER HEATER CONNECTOR HOSE.
- PROVIDE 1/2" HOT WATER TO THE DSH MACHINE AT 56" AFF ABOVE LEFT SIDE OF DSH MACHINE, MAKING FINAL CONNECTION USING HOSE FURNISHED WITH DSH MACHINE. PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE.
- PROVIDE ROOF HYDRANT RH-1 WITH BOTTOM OF NOZZLE INSTALLED 24" ABOVE THE BOTTOM OF ROOF DECK. PROVIDE ACCESSIBLE SOLATION VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PP-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
- INSTALL RGF IM58 ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE M58 BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
- PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 30" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 30" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
- PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPES TO FLOOR DRAIN TRAP PRIMER CONNECTIONS AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAINS.
- REPLACE STOCK WATER CLOSET HANDLE WITH UNIVERSAL CABLE OPERATED HANDLE (FLUSHMATE APT05053 OR APT30504 - FIELD VERIFY COMPATIBILITY WITH FLUSHMATE SYSTEM IN WATER CLOSET).

**PLUMBING GAS CONNECTIONS**

TAG	DESCRIPTION	CONNECTION SIZE	EQUIVALENT LENGTH	INPUT
DWH-1	WATER HEATER (GAS TANKLESS)	3/4"	65'	199,000 Btu/h
DWH-2	WATER HEATER (GAS TANKLESS)	3/4"	65'	199,000 Btu/h
FS-1	GAS FRYER	3/4"	65'	50,000 Btu/h
GR-1	GAS GRIDDLE	3/4"	95'	110,000 Btu/h
MAU-1	DIRECT FIRED MAKEUP AIR UNIT	1/2"	70'	235,000 Btu/h
RC-1	RICE COOKER	3/4"	90'	33,000 Btu/h
RH-1	BURNER RANGE	3/4"	95'	132,000 Btu/h
RTU-1	KITCHEN ROOFTOP UNIT	3/4"	50'	250,000 Btu/h
RTU-2	DINING ROOM ROOFTOP UNIT	3/4"	65'	250,000 Btu/h
GRAND TOTAL			MAX 95'	1,548,000 Btu/h

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



**PLUMBING FIXTURE SUPPLY CONNECTIONS**

**ROUGH-IN TYPE KEY**

ANGLE 3/8" [BRASS CRAFT CTR19 OR EQUAL (BRASS/CHROME) 1/4 TURN ANGLED BALL STOP WITH 3/8" COMPRESSION CONNECTION]

ANGLE 1/2" [BRASS CRAFT R39X-C OR EQUAL (BRASS/CHROME) MULTI-TURN ANGLED STOP WITH 1/2" COMPRESSION CONNECTION]

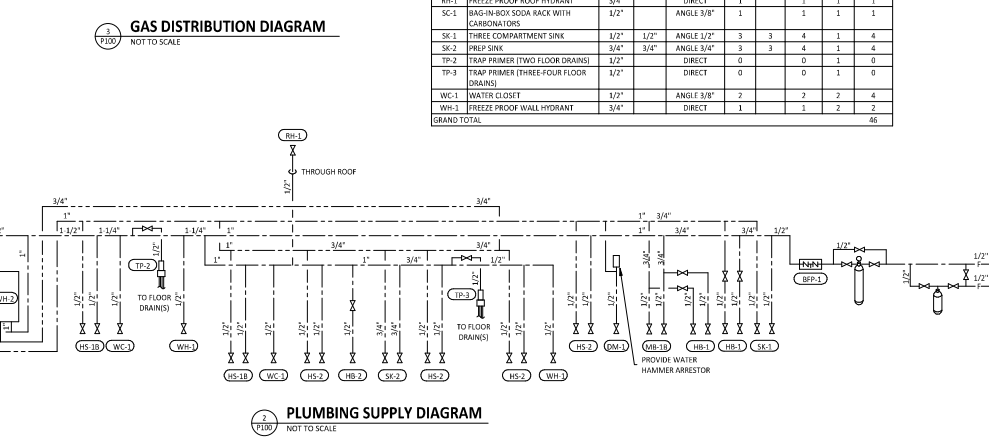
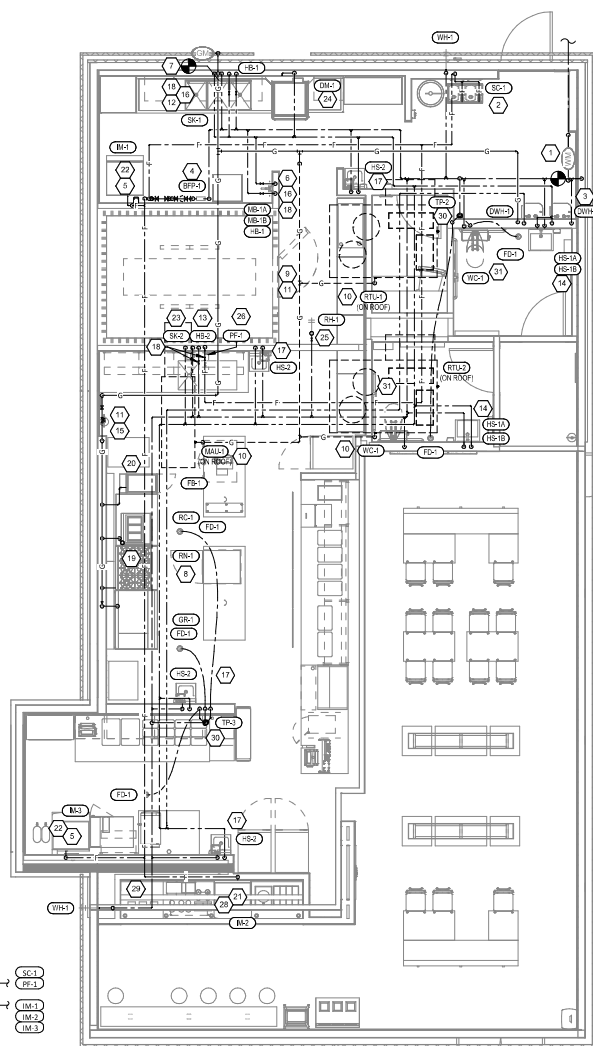
ANGLE 3/4" [EVERFLOW T842-NL W/ 3/4" SWEAT X MIP ADAPTER OR EQUAL (BRASS ANGLE STOP W/ 3/4" FIP INLET AND OUTLET)]

DIRECT PROVIDE COPPER PIPE IN CONNECTION SIZE SHOWN TO FIXTURE

HOSE 1/2" [ARROWHEAD BRASS VM50F OR EQUAL (BRASS/CHROME) WASHING MACHINE VALVE W/ 3/4" WHI OUTLET]

MIP PROVIDE PIPE WITH MIP THREAD STUBBED OUT OF WALL IN CONNECTION SIZE SHOWN AND LENGTH COMPATIBLE WITH FIXTURE AND WALL MATERIAL/FINISHES.

TAG	DESCRIPTION	CONNECTION SIZE	ROUGH-IN TYPE	CW	HW	WSPU	TOTAL	COUNT	TOTAL WSPU
BFP-1	RP2 BACKFLOW PREVENTER	1/2"	DIRECT	0	0	0	0	1	0
BFP-2	RP2 BACKFLOW PREVENTER	1 1/2"	DIRECT	0	0	0	0	1	0
DM-1	DSH SANITIZING MACHINE (PUMPED OUTLET)	0"	HOSE 1/2"	0	3	3	3	1	3
ET-1	EXPANSION TANK	3/4"	DIRECT	0	0	0	0	1	0
HB-1	CHEMICAL DISPENSER HOSE BIB	1/2"	MIP	2.25	2.25	3	2	6	6
HB-2	VEGETABLE WASH HOSE BIB	1/2"	MIP	1.5	1.5	1.5	1	1.5	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	ANGLE 1/2"	1.5	1.5	2	2	4	4
HS-2	KITCHEN HAND SINK	1/2"	ANGLE 3/8"	1.5	1.5	2	4	8	8
IM-1	ICE MAKER - 80H	1/2"	HOSE 1/2"	1	1	1	1	1	1
IM-2	ICE MAKER - SODA	1/2"	HOSE 1/2"	1	1	1	1	1	1
IM-3	ICE MAKER - SODA	1/2"	HOSE 1/2"	1	1	1	1	1	1
MB-1B	MOP SINK FAUCET	1/2"	MIP	2.25	2.25	3	1	3	3
PF-1	SPEED FILL FAUCET	3/8"	MIP	1.5	1.5	1	1	1.5	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"	DIRECT	1	1	1	1	1	1
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	1/2"	ANGLE 3/8"	1	1	1	1	1	1
SK-1	THREE COMPARTMENT SINK	1/2"	ANGLE 1/2"	3	3	4	1	4	4
SK-2	PREP SINK	3/4"	ANGLE 3/4"	3	3	4	1	4	4
TP-2	TRAP PRIMER (TWO FLOOR DRAINS)	1/2"	DIRECT	0	0	0	0	1	0
TP-3	TRAP PRIMER (THREE FLOOR DRAINS)	1/2"	DIRECT	0	0	0	0	1	0
WC-1	WATER CLOSET	1/2"	ANGLE 3/8"	2	2	2	2	4	4
WH-1	FREEZE PROOF WALL HYDRANT	3/4"	DIRECT	1	1	2	2	3	3
GRAND TOTAL								46	



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FOR CONSTRUCTION

CHIPOTLE MEXICAN GRILL, INC.  
 1281 KEENE CENTER DRIVE  
 NICHOLASVILLE, KY 40356

STORE NO. : 5159  
 NICHOLASVILLE  
 1281 KEENE CENTER DRIVE  
 NICHOLASVILLE, KY 40356

Issue Reason:	08-28-2024	PERMIT SET
	06-04-2025	CONSTRUCTION SET

Drawn:	Checked:
JEI	CK

Project No:  
 2301135

Contents:  
**PLUMBING PLAN**  
**WATER & GAS**

P100



**PLUMBING FIXTURE SCHEDULE**

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	COUNT	CONNECTION SIZE			WATER SUPPLY FIXTURE UNITS			DRAINAGE FIXTURE UNITS
				MANUFACTURER	MODEL			CW	HW	WASTE	CW	HW	TOTAL	
BFP-1	RPT BACKFLOW PREVENTER	GC	GC	CONBRACO	44LF-203-1ZF	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			0	0	0	
DM-1	DSM SANITIZING MACHINE (PUMPED OUTLET)	KES	GC	SEE ARCH	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	1	0"	1/2"	5/8"	0	3	3	7
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1	3/4"			0		0	
FB-1	GAS FRYER	KES	GC	SEE ARCH	--		1							
FC0-1	FLOOR CLEANOUD (3")	GC	GC	SIoux CHIEF	852-3PWR	ON-GRADE ADJUSTABLE CLEANOUD WITH INTERNAL THREADED CLEANOUD PLUG AND ROUND NICKEL BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUD PLUG)	1			3"				0
FC0-2	FLOOR CLEANOUD (4")	GC	GC	SIoux CHIEF	852-4PWR	ON-GRADE ADJUSTABLE CLEANOUD WITH INTERNAL THREADED CLEANOUD PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUD PLUG)	5			4"				0
FD-1	FLOOR DRAIN	GC	GC	SIoux CHIEF	842-2-PWR	ADJUSTABLE FLOOR DRAIN WITH PVC BODY, ROUND POLISHED METAL RING AND STRAINER, AND TRAP PRIMER PORT	1	1/2"		2"				2
FNL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3823T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET	5			2"				2
FS-1	FLOOR SINK	GC	GC	SIoux CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	5			3"				5
FS-2	FLUSH FLOOR SINK	GC	GC	SIoux CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND FULL PVC GRATE	2			3"				5
GI-1	GREASE INTERCEPTOR	GC	GC	CUSTOM	--	1,500 GALLON PRECAST GREASE INTERCEPTOR	1			4"				0
GR-1	GAS GRIDDLE	KES	GC	SEE ARCH	--		1							
HB-1	CHEMICAL DISPENSER HOSE BIB	KES	GC	SEE ARCH	--	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT OFF STOP AND CHECK VALVE. FAUCET HAS FEMALE NPT INLETS.	2	1/2"	1/2"		2.25	2.25	3	
HB-2	VEGETABLE WASH HOSE BIB	KES	GC	SEE ARCH	--	DILL FAUCET WITH NPT FEMALE INLET	1	1/2"			1.5	1.5	1.5	1
HS-1A	RESTROOM HAND SINK	GC	GC	AMERICAN STANDARD	9024-001EC	ADA ACCESSIBLE, WALL MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-0 FOR BACK TO BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. APPROVED ALTERNATE: KOHLER K-2084	2	1/2"	1/2"					1
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	SEE ARCH	--	PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AIRATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS FOR 10-SECOND SHUTOFF DELAY AND 30-SECOND TRIM-OUT DELAY.	2	1/2"	1/2"		1.5	1.5	2	
HS-2	KITCHEN HAND SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	4	1/2"	1/2"	2"	1.5	1.5	2	1
IM-1	ICE MAKER - BOH	KES	KES	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN (STANDARD CAPACITY REMOTE AIR COOLED)	1	1/2"			1			1
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (INTEGRAL AIR COOLED)	1	1/2"			1			1
IM-3	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (REMOTE AIR COOLED)	1	1/2"			1			1
MB-1A	MOP BASIN	GC	GC	FIAT	MBS2424	PROVIDE 24"x24"x10" MOLDED-STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDES BETWEEN THE MOP BASIN AND THE SLAB.	1			3"				2
MB-1B	MOP SINK FAUCET	KES	GC	SEE ARCH	--	SERVICE SINK FAUCET WITH BUILT-IN STOPS, LEVER HANDLES, WALL BRACE, AND NPT FEMALE INLETS	1	1/2"	1/2"		2.25	2.25	3	
PF-1	SPEED FILL FAUCET	KES	GC	SEE ARCH	--	WALL MOUNTED POT FILLER W/ SELF CLOSING FILLER VALVE AND NPT FEMALE INLET	1	3/8"			1.5	1.5	1.5	
RC-1	RICE COOKER	KES	GC	SEE ARCH	--		1							
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER (HOEPTNER PRODUCTS 1408) 847-7615	1	3/4"			1		1	
RN-1	0 BURNER RANGE	KES	GC	SEE ARCH	--		1							
SC-1	BAQ IN-BODY SODA RACK WITH CARBONATORS	SFS	SFS	SEE ARCH	--	SODA CARBONATORS SHALL HAVE AN INTEGRAL ASSE 1002-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.	1	1/2"			1		1	
SK-1	THREE COMPARTMENT SINK	KES	GC	SEE ARCH	--	THREE COMPARTMENT WARE WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1	1/2"	1/2"	2"	3	3	4	0
SK-2	PREP SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FINISHED WITH "BIG FLOT" FAUCET. NO-HUB BOTTOM OUTLET, AND CLASS-A FEE-PROOF POLYETHYLENE GRATES. SEE DETAIL ON SHEET P200 FOR REDUCTION TO 2" DRAIN CONNECTION.	1	3/4"	3/4"	2"	3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	ZURN	2886 8601 8602	6" X 160" HOPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS-A FEE-PROOF POLYETHYLENE GRATES. SEE DETAIL ON SHEET P200 FOR REDUCTION TO 2" DRAIN CONNECTION.	1	3/4"	3/4"	2"	3	3	4	2
TR-2	TRAP PRIMER (TWO FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P2-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED	1	1/2"			0		0	
TR-3	TRAP PRIMER (THREE FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED	1	1/2"			0		0	
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLINE 1.0 GPF, 17-1/8" HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD -BA TO THE MODEL FOR RIGHT HAND TRIP LEVER).	2	1/2"		3"	2		2	4
WH-1	FREEZE PROOF WALL HYDRANT	EXTG	EXTG	WOODGORD	MODEL 65	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE WITH STEM LONG ENOUGH TO REACH INSIDE THE THERMAL ENVELOPE OF THE BUILDING.	2	3/4"			1		1	

**WATER HEATER SCHEDULE**

TAG	DESCRIPTION	NATURAL GAS		ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		INPUT	CONNECTION SIZE	FLA	V/P/H			MANUFACTURER	MODEL	
DWH-1	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"		120/1/60	GC	GC	NAVEN	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).
DWH-2	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"		120/1/60	GC	GC	NAVEN	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).

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STORE NO. : 5159  
 NICHOLASVILLE  
 1281 KEENE CENTER DRIVE  
 NICHOLASVILLE, KY 40356

Issue/Revised:  
 08-28-2024 PERMIT SET  
 06-04-2025 CONSTRUCTION SET

Drawn: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Design: \_\_\_\_\_  
 CJK

Project No:  
 2301135

Contract:  
 PLUMBING  
 SCHEDULES

P600











Panel Name: BDP		Volts: 120		Main: LUGS	
Mounting: Recessed		Phases: 1		Wires: 20 A	
Enclosure: Type 1		Trip:		Load:	
1	POS	11 A	1	0.2 kVA	
2	DMR - POS	11 A	1	0.2 kVA	
3	DMR - COOLING SYSTEM	15 A	1	0.7 kVA	
4	OFFICE SECURITY SYSTEM	15 A	1	0.2 kVA	
5	OFFICE - COMPUTER	15 A	1	0.4 kVA	
6	OFFICE - DVDRSP	15 A	1	0.5 kVA	
Total Load:		28 A		2.8 kVA	
Total Amps:		18 A			

VOLTS: 208/120V Wye												
PHASES: 3												
WIRES: 4												
MOUNTING: Recessed												
ENCLOSURE: Type 1												
MCR RATING: 400 A												
CKT #	DESCRIPTION	C/B [A]	# [PS]	NOTES	LOAD [A]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]
1												
1	POS	11 A	1		0.2	0.2						
2	DMR - POS	11 A	1		0.2	0.2						
3	DMR - COOLING SYSTEM	15 A	1		0.7	0.7						
4	OFFICE SECURITY SYSTEM	15 A	1		0.2	0.2						
5	OFFICE - COMPUTER	15 A	1		0.4	0.4						
6	OFFICE - DVDRSP	15 A	1		0.5	0.5						
Total Load:					28 A	2.8 kVA						
Total Amps:					18 A							
PHASE TOTAL (kVA): 37.1 kVA 36.6 kVA 40.3 kVA												
PHASE TOTAL (AMPS): 310 A 305 A 335 A												
TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS							
A	INTERIOR LIGHTING	2 kVA	125.00%	2 kVA	TOTAL CONNECTED kVA: 114 kVA							
B	EXTERIOR LIGHTING	1 kVA	125.00%	1 kVA	TOTAL CONNECTED AMPS: 316 A							
C	COMFORT COOLING	37 kVA	+25% LARGEST MOTOR	37 kVA	TOTAL ESTIMATED kVA: 54.9 kVA							
D	COMFORT HEATING	4 kVA	100.00%	4 kVA	TOTAL ESTIMATED AMPS: 262 A							
E	MISC. MOTOR	5 kVA	100.00%	5 kVA								
F	ITCHER/EQUIPMENT	18 kVA	60.00%	11 kVA								
G	RECEPTACLES	8 kVA	100.00%	8 kVA								

VOLTS: 208/120V Wye												
PHASES: 3												
WIRES: 4												
MOUNTING: Recessed												
ENCLOSURE: Type 1												
MCR RATING: 400 A												
CKT #	DESCRIPTION	C/B [A]	# [PS]	NOTES	LOAD [A]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]	LOAD [kVA]
1												
1	POS	11 A	1		0.2	0.2						
2	DMR - POS	11 A	1		0.2	0.2						
3	DMR - COOLING SYSTEM	15 A	1		0.7	0.7						
4	OFFICE SECURITY SYSTEM	15 A	1		0.2	0.2						
5	OFFICE - COMPUTER	15 A	1		0.4	0.4						
6	OFFICE - DVDRSP	15 A	1		0.5	0.5						
Total Load:					28 A	2.8 kVA						
Total Amps:					18 A							
PHASE TOTAL (kVA): 19.9 kVA 17.7 kVA 20.0 kVA												
PHASE TOTAL (AMPS): 188 A 147 A 170 A												

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 NICHOLASVILLE, KY 40356

Issue/Revised:  
 08-28-2024 PERMIT SET  
 06-04-2025 CONSTRUCTION SET

Drawn:	Checked:
JEI	CK
Project No:	23011193
Contract:	

ELECTRICAL  
 SCHEDULES

E600

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 NICHOLASVILLE, KY 40356

Issue Reason:	08-28-2024	PERMIT SET
	06-01-2025	CONSTRUCTION SET

Drawn:	Checklist
JEI	CUK

Project No:  
 2301135

Contract:  
**ELECTRICAL INTERIOR ELEVATIONS**

**E700**

