

PLUMBING GENERAL NOTES

- REFER TO ARCHITECTURAL/CIVIL DRAWINGS FOR BUILDING FINISHED FLOOR ELEVATION.
- FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING SITE DOMESTIC WATER AND SANITARY WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION TO ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
- INVERT ELEVATIONS LISTED ARE APPROXIMATE. PRIOR TO CONSTRUCTION, COORDINATE FINAL INVERT ELEVATIONS OF BUILDING SANITARY OUTFALLS AND SITE PIPING WITH SITE UTILITY CONTRACTOR. MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER CONNECTIONS TO SITE UTILITIES.
- PRIOR TO BEGINNING CONSTRUCTION, COORDINATE PLUMBING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL CODE AUTHORITY AND PROVIDE AS DIRECTED.
- CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
- CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
- MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES.
- COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
- DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
- CONTRACTOR TO COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
- ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
- UPON COMPLETION OF WORK, THOROUGHLY ROD OUT AND FLUSH ALL SANITARY PIPING TO ENSURE IT IS FREE FROM BLOCKAGES.

PLUMBING SCOPE & SPECIFICATION

THE WORK OF THIS SECTION SHALL INCLUDE, BUT NOT BE LIMITED TO:

- A DOMESTIC HOT AND COLD WATER DISTRIBUTION SYSTEM TO SERVE ALL FIXTURES AND EQUIPMENT.
- SANITARY SOIL WASTE AND VENT AND GREASE WASTE AND VENT SYSTEMS TO SERVE ALL FIXTURES AND EQUIPMENT.
- CONNECT TO EXISTING COLD WATER, SANITARY, AND GREASE WASTE MAINS.
- A NATURAL GAS DISTRIBUTION SYSTEM TO SERVE ALL GAS-FUELED EQUIPMENT. COORDINATE WITH THE LOCAL NATURAL GAS UTILITY PROVIDER TO ESTABLISH A GAS SERVICE COMPLETE WITH METER AND REGULATOR SET.

DRAWINGS ARE DIAGRAMMATIC; CONFIRM DIMENSIONS AND LOCATIONS IN THE FIELD, ADVISE OF MAJOR DISCREPANCIES.

GUARANTEE LABOR AND MATERIALS FOR ONE YEAR.

ADHERE TO APPLICABLE LOCAL CODES AND REGULATIONS, WHICH INCLUDE BUT ARE NOT LIMITED TO CITY OF HOUSTON (2003 INTERNATIONAL PLUMBING CODE, WITH AMENDMENTS).

PRODUCE RECORD DRAWINGS.

CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND PAY ALL FEES.

VALVES

VALVES SHALL BE MANUFACTURED BY NIBCO, HAMMOND, POWELL, STOCKHAM, WATTS OR EQUIVALENT APPROVED BY THE ENGINEER.

BALL VALVES SHALL HAVE CAST BRONZE BODY, BLOWOUT PROOF STEMS, FULL SIZE PORT, 316 STAINLESS STEEL TRIM, TEFLOON SEAT AND SEAL AND THRUST WASHERS. VALVES 2" AND SMALLER SHALL BE NIBCO T-565-70-66 OR APPROVED EQUIVALENT.

UNIONS

UNIONS IN COPPER OR BRASS LINES SHALL BE BRASS, THREADED PATTERN UNIONS.

EXCAVATION

EXCAVATE TRENCHES FOR UNDERGROUND PIPING TO THE REQUIRED DEPTH.

CUT THE BOTTOM OF THE TRENCH OR EXCAVATION TO UNIFORM GRADE.

EXCAVATE 6" BELOW GRADE, FILL WITH BEDDING MATERIAL (SAND) AND TAMP WELL.

LAY OUT ALIGNMENT OF PIPE TRENCHES TO AVOID OBSTRUCTIONS. PROVIDE ASSURANCE THAT PROPOSED ROUTE OF PIPE WILL NOT INTERFERE WITH BUILDING FOUNDATION BEFORE ANY CUTTING IS BEGUN. SHOULD INTERFERENCE BE FOUND, CONTACT THE ARCHITECT/ENGINEER BEFORE PROCEEDING.

BACKFILL

BACKFILL SHALL NOT BE PLACED UNTIL THE WORK HAS BEEN INSPECTED, TESTED AND APPROVED. USE SUITABLE FRAMBLE SOILS AS BACKFILL MATERIAL. DO NOT USE PEAT, SILT, MUCK, DEBRIS OR OTHER ORGANIC MATERIALS. DEPOSIT BACKFILL IN UNIFORM LAYERS.

PLACE BACKFILL MATERIAL IN UNIFORM LAYERS, 8" MAXIMUM LOOSE MEASURE. COMPACT TO NOT LESS THAN 95% OF MAXIMUM SOIL DENSITY AS DETERMINED BY ASTM D698 STANDARD PROCTOR.

PLUMBING PIPING HANGER SPACING

MAXIMUM SPACING SHALL BE 10 FOOT.

CLEANING, TESTING AND ADJUSTING

THIS CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, INSTRUCTIONS, AND SUPERVISION REQUIRED FOR THE PERFORMANCE OF ALL TESTS, CLEANING, AND MAKING NECESSARY ADJUSTMENTS TO OPERATION OF ALL FIXTURES AND EQUIPMENT.

PIPING INSULATION

ALL COLD WATER PIPING, FITTINGS AND VALVES SHALL BE INSULATED WITH NOMINAL 1/2" WALL THICKNESS MOCOLOCK PIPE INSULATION, OR AN APPROVED EQUAL HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DENSITY OF 50 OR LESS WHEN TESTED BY ASTM E-84 METHOD.

MOCOLOCK PIPE INSULATION MAY BE SLIPPED ONTO THE PIPE PRIOR TO CONNECTION OR APPLIED AFTER THE PIPE IS INSTALLED, AT THE CONTRACTOR'S OPTION. ALL BUTT JOINTS AND MITER JOINTS SHALL BE CLOSED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT ADHESIVE. MOCOLOCK PIPE INSULATION SHALL BE INSTALLED ACCORDING TO THE PROCEDURES OUTLINED BY THE MANUFACTURER.

FITTING COVER INSULATION SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. SWEAT FITTINGS SHALL BE INSULATED WITH MITER CUT PIECES OF MOCOLOCK PIPE INSULATION THE SAME SIZE AS ON ADJACENT PIPING. THREADED FITTINGS SHALL BE INSULATED WITH SLEEVED FITTING COVERS FABRICATED FROM MITER CUT PIECES OF MOCOLOCK PIPE INSULATION ACCORDING TO THE MANUFACTURER'S SLEEVING SIZE RECOMMENDATIONS AND SHALL BE OVERLAPPED 2" AND SEALED TO THE ADJACENT PIPE INSULATION. ALL VALVES SHALL BE INSULATED WITH CUT PIECES OF MOCOLOCK PIPE INSULATIONS. ALL JOINTS AND MITER CUT PIECES ARE TO BE SEALED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT ADHESIVE.

SUPPORTING HANGERS SHALL BE DESIGNED TO RESIST COMPRESSION; SUPPORTING DEVICES SUCH AS SHORT WOOD DOWELS OR WOOD BLOCKS SHALL BE USED IN COMBINATION WITH GALVANIZED SHEET METAL HANGER SHIELDS. THE WOOD SUPPORTING DEVICES SHALL BE THE SAME THICKNESS AS THE INSULATION AND SEALED TO THE INSULATION WITH FACTORY APPROVED CONTACT ADHESIVE.

INSTALL THERMAL INSULATION ON CLEAN, DRY SURFACES AFTER ALL TESTING AND INSPECTION IS COMPLETED. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS AND WITH MANUFACTURER'S INSTRUCTIONS.

GAS WATER HEATER

ITEM NO.	TOTAL MBH	NOTES	STORAGE CAPACITY (GALLONS)	ELECTRICAL REQUIRED	SET MAX. WATER TEMP. (°F)	MANUFACTURER MODEL NO.
GWH-1	380		-	120/1	140°	TAKAGI #T-M50 ASME
GWH-2	380		-	120/1	140°	TAKAGI #T-M50 ASME

NOTES:
1.

THERMOSTATIC MIXING VALVE

ITEM NO.	INLET HOT WATER TEMP (°F)	OUTLET MIXED WATER TEMP (°F)	MINIMUM FLOW (GPM)	DESIGN FLOW (GPM)	PRESSURE DROP @ DESIGN FLOW (PSI)	VALVE FINISH	MANUFACTURER / MODEL NO.
TMW-1	140°	110°	0.5	7	4.0	ROUGH BRONZE	SYMONS TEMPCONTROL S-500W-ASB

NOTES:

- MAKE WATER CONNECTIONS TO THERMOSTATIC MIXING VALVE(S) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE PIPE INCREASERS AND/OR VALVES AS REQUIRED.
- PROVIDE UNION CONNECTIONS AND OUTLET THERMOMETER UNLESS INDICATED OTHERWISE.
- REFER TO DETAIL FOR ADDITIONAL INFORMATION.

PIPE MATERIAL LIST

DOMESTIC WATER PIPING

ABOVE SLAB INSIDE THE BUILDING SHALL BE SEAMLESS ASTM B 88 TYPE L COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22. SOLDER MATERIAL SHALL BE 95.5% LEAD FREE, ASTM B 32. THE USE OF DRILLED-T CONNECTIONS IS NOT PERMITTED.

CONDENSATE AND INDIRECT DRAIN PIPING SHALL BE

TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV TUBING AND COPPER FITTINGS FOR 1-1/4" AND LARGER SIZES, AND 95-5 SOLDER JOINTS.

SANITARY SOIL WASTE AND VENT AND GREASE WASTE PIPING SHALL BE

ABOVE SLAB INSIDE BUILDING SHALL BE NO-HUB CAST IRON SYSTEM CONFORMING TO CSPI STANDARD NO. 301-75. NEOPRENE GASKETS SHALL CONFORM TO ASTM STANDARD C564-75.

BELOW SLAB SHALL BE SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM D-1784-82 WITH SOLVENT WELDED JOINTS.

NATURAL GAS PIPING SHALL BE

ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL, SEAMLESS, OR ELECTRIC RESISTANCE WELDED, ASTM A-53 WITH WELDED JOINTS AND STEEL FITTINGS OF THE SAME THICKNESS AS PIPE. PIPING 2 INCHES AND SMALLER MAY BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON 150 PSI CLASS FITTINGS ANSI B16.3, BANDED AIR TESTED, AND SCREENED JOINTS. ALL GAS PIPING AND FITTINGS OUTDOORS SHALL BE PAINTED WITH TWO COATS OF BRUSHED ON RUST PREVENTATIVE SILVER PAINT. ONE COAT OF RUST PREVENTATIVE PRIMER SHALL BE APPLIED TO THE PIPE IMMEDIATELY AFTER INSTALLATION.

FIRE SPRINKLER SYSTEM

- DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF AN AUTOMATIC WET PIPE FIRE EXTINGUISHING SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR THE ENTIRE AREA.
- STUDY THE GENERAL STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.
- THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE GOVERNING BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.
- IT SHALL BE THE FIRE PROTECTION INSTALLER'S RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.
- SCHEDULE 40 BLACK STEEL PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA FOR APPLICABLE FIRE PROTECTION SYSTEMS. CONFORM TO ASTM A53 AND A120. PROVIDE PIPING WITH MALLEABLE IRON, CAST IRON, STEEL, WELDED OR SCREWED FITTINGS. VICTAULIC GROOVED FITTINGS MAY BE USED ABOVE GRADE IN ACCESSIBLE LOCATIONS ONLY.
- DESIGN DRAWINGS MUST BE SUBMITTED TO THE LOCAL FIRE DEPARTMENT JURISDICTION FOR REVIEW AND APPROVAL. EVIDENCE OF SUCH REVIEW AND APPROVAL SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE PRIOR TO SYSTEM INSTALLATION.
- SYSTEM SHALL BE DESIGNED BY AN RME/STATE OF TEXAS REGISTERED ENGINEER.

PLUMBING FIXTURE SPECIFICATION

<p>TYPE: WC-1 WATER CLOSET, FLOOR MOUNTED 10" ROUGH-IN, WHITE VITREOUS CHINA, 1.6 GALLON PER FLUSH SIPHON JET ACTION, ONE-PIECE ELONGATED CLOSET BOWL WITH BOLT COVERS.</p> <p>SEAT: AMERICAN STANDARD MADERA ELONGATED TOILET 2234.015. ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSC.</p> <p>SUPPLIES: ZURN ZR6000AW-W51 BATTERY POWERED 1.6 GPF FLUSH VALVE.</p> <p>ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.</p>	<p>TYPE: IMC-1 ICE MACHINE CONNECTION, WATER SUPPLY VALVED AT WALL. PROVIDE DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER AND WATER FILTER. WATTS 1/2" 007-S BACKFLOW PREVENTER AND AQUA-PURE AP510 FILTER. ROUTE BACKFLOW PREVENTER DISCHARGE TO FLOOR SINK SERVING ICE MACHINE.</p> <p>ROUGH-IN: 3/4" COLD WATER. COORDINATE ROUGH-IN LOCATION/HEIGHT AND FINAL CONNECTION WITH EQUIPMENT BEING INSTALLED AND WITH ARCHITECTURAL DRAWINGS.</p>
<p>TYPE: WC-2 (T.A.S. COMPLIANT FOR ADULTS) WATER CLOSET, FLOOR MOUNTED 10" ROUGH-IN, WHITE VITREOUS CHINA, 1.6 GALLON PER FLUSH SIPHON JET ACTION, ONE-PIECE 16-1/2" H ELONGATED CLOSET BOWL WITH BOLT COVERS. FLUSH VALVE WITH SENSOR LOCATED ON LEFT OR ON RIGHT SIDE IN ORDER TO MEET T.A.S. REQUIREMENT THAT FLUSH CONTROLS BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA.</p> <p>SEAT: AMERICAN STANDARD MADERA ELONGATED TOILET 2305.100. ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSC.</p> <p>SUPPLIES: ZURN ZR6000AW-W51 BATTERY POWERED 1.6 GPF FLUSH VALVE.</p> <p>ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.</p>	<p>TYPE: SERVICE: FD-1 TOILET ROOMS FLOOR DRAIN, BOTTOM OUTLET CAST IRON BODY, ADJUSTABLE 6" DIAMETER NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS. PROVIDE CLAMPING DEVICE FOR DRAINS IN MEMBRANE FLOOR AREAS. MI-FAB F1100-1-6.</p> <p>TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER.</p> <p>ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.</p>
<p>TYPE: DESCRIPTION: L-1 - TOILET ROOMS (T.A.S. COMPLIANT FOR ADULTS) LAVATORY SET TO BE PROVIDED WITH THREE (3) SETS OF FAUCETS. CHROME PLATED BRASS WALL MOUNTED LAVATORY FITTING WITH 9-1/2" SPOUT, CP-4 COVER PLATE, TEMPERATURE MIXING VALVE, AND 1.5 GPM.</p> <p>FAUCET: AMERICAN STANDARD BERWICK #7430.451 CHROME PLATED BRASS GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE WITH LOCK NUT. MCGUIRE 155A.</p> <p>STRAINER: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872.</p> <p>P-TRAP: 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVES WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165L.</p> <p>SUPPLIES: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.</p> <p>ROUGH-IN:</p>	<p>TYPE: SERVICE: FS-1 KITCHEN INDIRECT WASTE FLOOR SINK, BOTTOM OUTLET CAST IRON BODY, 12" SQUARE NICKEL BRONZE FULL GRATE AND RIM, ANCHOR FLANGE, 8" DEEP SUMP WITH A.R.E. INTERIOR, ALUMINUM DOME BOTTOM STRAINER. PROVIDE CLAMPING DEVICE FOR DRAINS IN MEMBRANE FLOOR AREAS. MI-FAB FS1730-FL-1.</p> <p>TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER.</p> <p>ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS AND EQUIPMENT PLACEMENT. FIELD CUT GRATES PER OWNER'S INSTRUCTIONS IN ORDER TO PROPERLY SERVE EQUIPMENT.</p>
<p>TYPE: DESCRIPTION: SK-1 - KITCHEN HAND WASH WALL HUNG LAVATORY AND FAUCET FURNISHED BY OWNER. ROUGH-INS, FIXTURE INSTALLATION, AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE STRAINER, P-TRAP, TRAP ARM, ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, FIXTURE SUPPORTS, ETC. AS REQUIRED IN ORDER TO PROPERLY INSTALL FIXTURE.</p> <p>ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.</p>	<p>TYPE: DESCRIPTION: WCO WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH BRONZE RAISED HEAD PLUG AND ROUND STAINLESS STEEL COVER PLATE WITH CENTER SECURING SCREW. MI-FAB C1440-RDB. PROVIDE MI-FAB C1460 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.</p>
<p>TYPE: DESCRIPTION: SK-2 - KITCHEN SINK SINGLE COMPARTMENT SINK, INTEGRAL TO PRE-FABRICATED STAINLESS STEEL TABLE TOP, FURNISHED BY K. E. C. AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET ALSO FURNISHED BY OWNER. ROUGH-INS, FAUCET INSTALLATION, AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE STRAINER, INDIRECT WASTE PIPING, ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED IN ORDER TO PROPERLY INSTALL FIXTURE.</p> <p>ROUGH-IN: 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. CONFIRM ALL DIMENSIONAL REQUIREMENTS IN ADVANCE WITH ARCHITECT/K. E. C.</p>	<p>TYPE: DESCRIPTION: FCO FLOOR CLEANOUT, CAST IRON BODY WITH SECONDARY O-RING TEST SEAL AND ADJUSTABLE COMBINED ACCESS COVER/PLUG TOP ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND SCORATED NICKEL BRONZE COVER. MI-FAB C1100-R-1. FOR CARPETED FLOORS PROVIDE MI-FAB C1100-RC-1.</p>
<p>TYPE: DESCRIPTION: SK-3 - PRE-RINSE SINK SINGLE COMPARTMENT SINK, INTEGRAL TO PRE-FABRICATED STAINLESS STEEL DISHWASH TABLE TOP, FURNISHED BY K. E. C. AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET ALSO FURNISHED BY OWNER. ROUGH-INS, FAUCET INSTALLATION, AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE STRAINER, INDIRECT WASTE PIPING, ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED IN ORDER TO PROPERLY INSTALL FIXTURE.</p> <p>ROUGH-IN: 3/4" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. CONFIRM ALL DIMENSIONAL REQUIREMENTS IN ADVANCE WITH ARCHITECT/K. E. C.</p>	<p>TYPE: DESCRIPTION: ECO EXTERIOR CLEANOUT. CAST IRON BODY WITH GASKET SEAL, ABS PLUG AND HEAVY DUTY CAST IRON SERRATED COVER WITH SQUARE OR DIAMOND PATTERN. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18" X 18" X 18" CONCRETE SLAB.</p> <p>FIXTURE: SMITH 4220-U</p>
<p>TYPE: DESCRIPTION: SK-4 - THREE COMPARTMENT SINK FREESTANDING THREE COMPARTMENT SINK FURNISHED BY K. E. C. AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET(S) ALSO FURNISHED BY OWNER. ROUGH-INS, FAUCET INSTALLATION, AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE STRAINER, INDIRECT WASTE PIPING, ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED IN ORDER TO PROPERLY INSTALL FIXTURE.</p> <p>ROUGH-IN: 3/4" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. CONFIRM ALL DIMENSIONAL REQUIREMENTS IN ADVANCE WITH ARCHITECT/K. E. C.</p>	<p>DESCRIPTION: TMV THERMOSTATIC MIXING VALVE. SCHEDULED ON DRAWINGS.</p>
<p>TYPE: DESCRIPTION: SK-5 - BAR SINK PRE-FABRICATED BAR AREA SINK FURNISHED BY K. E. C. AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET(S) ALSO FURNISHED BY OWNER. ROUGH-INS, FAUCET INSTALLATION, AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE STRAINER, INDIRECT WASTE PIPING, ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED IN ORDER TO PROPERLY INSTALL FIXTURE.</p> <p>ROUGH-IN: 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. CONFIRM ALL DIMENSIONAL REQUIREMENTS IN ADVANCE WITH ARCHITECT/K. E. C.</p>	<p>DESCRIPTION: MS-1 MOP SINK BASIN, 24" X 24" X 12" HIGH, PRECAST TERRAZZO TOP, DROPPED FRONT, STAINLESS STEEL THRESHOLD CAP, AND GRID STRAINER. PROVIDE STAINLESS STEEL WALL GUARDS IN QUANTITY AS REQUIRED TO PROTECT ADJACENT WALLS. PROVIDE MOP HANGER AND 3/8" HOSE WITH WALL HANGER. ACORN TWC-24 WITH KWGX-24, KMH, AND KH36. CHROME PLATED BRASS WALL MOUNTED FITTING WITH ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 2-1/2" INDEXED LEVER HANDLES ON 8" CENTERS. QUARTER TURN CARTRIDGES, 3/4" MALE HOSE THREAD OULET. CHICAGO 897-CP.</p> <p>ROUGH-IN: 3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.</p>
<p>TYPE: GENERAL NOTES:</p>	<p>DESCRIPTION: U-1 (T.A.S. COMPLIANT FOR ADULTS) URINAL, WALL HUNG, WHITE VITREOUS CHINA 1.0 GALLON PER FLUSH. AMERICAN STANDARD WASHBROOK 6501.010. PROVIDE ZURN WALL CARRIER FOR FIXTURE SUPPORT.</p> <p>CARRIER: ZURN ZR6003AW-W51 BATTERY POWERED 1.0 GPF FLUSH VALVE.</p> <p>SUPPLIES: 2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.</p> <p>ROUGH-IN:</p> <p>ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.</p> <p>PROVIDE MOLDED CLOSED CELL ANTI-MICROBIAL VINYL INSULATION KITS (BY MCGUIRE OR TREUBER) AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE. ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.</p> <p>INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAP THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.</p>



ISSUE
09-10-10 ISSUED FOR PERMIT
10-08-10 DBR REVIEW COMMENTS
11-02-10 ISSUED FOR CONSTRUCTION

HARRELL
ARCHITECTS, LP
9575 Katy Frey, #200
Houston, Texas 77024
tel: 713.722.7071
fax: 713.722.7072

CONSULTANTS
HOLSTE & ASSOCIATES
MEP Engineers
Holste & Associates, Inc.
Consulting Engineers - Texas Reg. F5443
4671 Southwest Freeway, Suite 800
Houston, Texas 77077 (713) 966-1351
www.holsteme.com

PROJECT NAME
LUCA & LEONARDO
RESTAURANT

LUCA & LEONARDO
RESTAURANT

PROJECT ADDRESS
20 WATERWAY
THE WOODLANDS, TEXAS

PROJECT NUMBER
10018
SHEET NAME
PLUMBING
SCHEDULES
SHEET NUMBER

P5.00