

PLUMBING GENERAL NOTES

- ALL WORK TO BE PERFORMED SHALL BE IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE - 2012, INTERNATIONAL PLUMBING CODE - 2012, CURRENT NATIONAL ELECTRICAL CODE, NFPA 99 - 2012, NFPA 70-2012, NFPA 72-2012 AND ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE DERIVED FROM EXISTING DRAWINGS AND LIMITED FIELD OBSERVATIONS. THESE DRAWINGS MAY NOT BE ALL INCLUSIVE OF SERVICES THAT EXIST IN THE PROJECT AREA. CONTRACTOR SHALL VERIFY SERVICES, LOCATIONS, TYPE AND SIZE PRIOR TO ANY BIDDING, PRICING OR CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INVOLVING DEMOLITION TIE-INS AND ROUTING CONFLICTS WITH EXISTING CONDITIONS. ANY DEVIATIONS IMPACTING WORK SHOWN ON THESE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT FOR COORDINATION PRIOR TO BIDDING AND PRICING.
- FIXTURES, EQUIPMENT, CONNECTIONS AND PIPING SHALL BE FURNISHED AND INSTALLED TO MEET OR EXCEED STATE AND LOCAL CODES AND REQUIREMENTS.
- FURNISH AND INSTALL SHOCK ARRESTORS IN COLD WATER LINES AT CONNECTIONS TO FLUSH VALVES, QUICK CLOSING VALVES, AND AT ALL HOT AND COLD WATER CONNECTIONS TO FIXTURES.
- PROVIDE ISOLATION BALL VALVES AT BRANCH LINES CONNECTING TO MAINS SUCH THAT EACH BRANCH LINE MAY BE INDIVIDUALLY ISOLATED. TAG ALL VALVES IN ACCORDANCE WITH CAMPUS STANDARDS.
- PROVIDE CLEANOUTS AT ALL 90° SANITARY SEWER ELBOWS AND IN ACCORDANCE WITH APPLICABLE CODES.
- PROVIDE INSULATION KIT FOR SUPPLIES, DRAIN PIPING AND TRAP FOR ALL HANDICAP ACCESSIBLE LAVATORIES AND SINKS. INSULATION KIT SHALL BE EQUAL TO TRUEBRO MODEL 103 (WHITE). WHERE PROTECTIVE SKIRT UNDER FIXTURES IS PROVIDED, INSULATION OF PIPING IS NOT REQUIRED.
- ORIENT FLUSH VALVE HANDLES ASSOCIATED WITH BARRIER-FREE WATER CLOSETS ON WIDE SIDE OF STALL TO COMPLY WITH ADA REQUIREMENTS.
- ALL SANITARY SEWER, STORM DRAIN, AND GREASE WASTE PIPING SHOWN SHALL BE RUN BELOW FLOOR, UNLESS NOTED OTHERWISE.
- ALL CW, HW, HWR, NATURAL GAS, FIRE PROTECTION, AND VENT PIPING SHOWN SHALL BE RUN ABOVE CEILING, UNLESS NOTED OTHERWISE.
- PENETRATIONS THROUGH PARTITIONS AND FLOORS SHALL BE SLEEVED AND SEALED TO MAINTAIN INTEGRITY OF PARTITION AND FLOOR RATING.
- CONTRACTOR SHALL REROUTE ALL ACTIVE PLUMBING SERVICES IN CHASES OR WALLS TO BE REMOVED, TO NEW CHASE AREAS OR NEW WALLS AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO BIDDING AND PRICING.
- CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS, FURNISH CUTOFF VALVES, P-TRAPS, P.R.V.'S, BACKFLOW PREVENTERS, STRAINERS, STEAM TRAPS AND PIPING AS REQUIRED PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ANY CONFLICTS BETWEEN THESE DOCUMENTS AND EQUIPMENT CUT SHEETS PRIOR TO CLOSING IN WALLS AND CEILINGS.
- COORDINATE WATER, WASTE, VENT, AND STORM WATER PIPING WITH OTHER TRADES TO AVOID SPACING OR ROUTING PROBLEMS.
- PLUMBING VENTS AND STACKS THROUGH ROOF SHALL BE INSTALLED A MINIMUM OF 10'-0" CLEAR OF A/C OUTSIDE AIR INTAKES, CLINICAL AIR COMPRESSOR INTAKES, OR WINDOWS IN STRUCTURE.
- DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES PRIOR TO BIDDING AND PRICING.
- EXISTING TIE-IN POINTS ARE APPROXIMATE, FIELD VERIFY ACTUAL TIE-IN POINTS AND PROVIDE PIPING RUNS AS REQUIRED FOR TIE-INS PRIOR TO BIDDING AND PRICING.
- CONTRACTOR SHALL RE-ROUTE ALL ACTIVE PIPING PASSING THROUGH AREAS OF DEMOLITION TO NEAREST WALL OR CHASE AND REMOVE ALL PIPING THAT IS INACTIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CLASSIFYING ALL PIPING IN SPACE. OWNER WILL ASSIST IF CONTRACTOR IS UNABLE TO DETERMINE FUNCTION OF SYSTEM.
- CONTRACTOR SHALL REMOVE ALL UNUSED PLUMBING PIPING AND CAP AS REQUIRED.

PLUMBING LEGEND

---	EXISTING PIPING TO REMAIN	ECO	EXTERIOR CLEANOUT (SEE SCHEDULE SPECIFICATIONS)
---	EXISTING PIPING TO BE REMOVED	WCO	WALL CLEANOUT
---	NEW PIPING		
---	DOMESTIC COLD WATER PIPING		
---	DOMESTIC HOT WATER PIPING		
---	DOMESTIC HOT WATER PIPING AT INDICATED SERVICE TEMPERATURE		
---	DOMESTIC HOT WATER RECIRCULATION		
D	DRAIN PIPING		
SS	SANITARY SEWER		
V	VENT		
GW	GREASE WASTE		
SD	STORM DRAIN PIPING		
OD	STORM OVERFLOW DRAINAGE PIPING		
G	NATURAL GAS PIPING		
TW	TEMPERED WATER		
#	DETAIL NO.		
#	SHEET ON WHICH DETAIL IS LOCATED		
#	SPECIFIC NOTE DESIGNATION		
	POINT OF DISCONNECT		
	POINT OF CONNECTION, NEW TO EXISTING		
	EXISTING EQUIPMENT TO REMAIN		
	EXISTING EQUIPMENT TO BE DEMOLISHED		
XX	NEW EQUIPMENT WITH IDENTIFICATION		

PLUMBING ABBREVIATIONS

AD	AREA DRAIN	KW	KILOWATT
AP	ACCESS PANEL	MBH	1000 BRITISH THERMAL UNITS PER HOUR
AFF	ABOVE FINISHED FLOOR	MECH.	MECHANICAL
BEH	BEHIND	OD	OVERFLOW DRAIN
BOP	BOTTOM OF PIPE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BMS	BUILDING MANAGEMENT SYSTEM	OSD	OPEN SIDE DRAIN
BTUH	BRITISH THERMAL UNITS PER HOUR	PD	PRESSURE DROP
CONT.	CONTINUATION	PRV	PRESSURE REDUCING VALVE
COTG	CLEAN OUT TO GRADE	PSIG	POUNDS PER SQUARE INCH GAGE
COYB	CLEANOUT IN YARD BOX	RD	ROOF DRAIN
CW	DOMESTIC COLD WATER	RPM	REVOLUTIONS PER MINUTE
ECO	EXTERIOR CLEANOUT	SAW	SANITARY SEWER
ES/EW	EMERGENCY SHOWER / EYEWASH	SD	STORM DRAIN
EWC	ELECTRIC WATER COOLER	WCP	TRAP PRIMER
EWH	ELECTRIC WATER HEATER	TV	TEMPERED WATER
F	FAHRENHEIT	TYP.	TYPICAL
FCO	FLOOR CLEANOUT	UNO	UNLESS NOTED OTHERWISE
FD	FLOOR DRAIN	VFD	VARIABLE FREQUENCY DRIVE
FMS	FACILITY MANAGEMENT SYSTEM	WB	WET BULB
FPWH	FREEZE PROOF WALL HYDRANT	WCO	WALL CLEANOUT
FT	FEET	W.G.	WATER GAGE
GPR	GAS PRESSURE REGULATOR	WH	WALL HYDRANT
HB	HOSE BIB	WHA	WATER HAMMER ARRESTOR
HP	HORSEPOWER	WPD	WATER PRESSURE DROP

FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE DESCRIPTION	COLD WATER	HOT WATER	DRAIN	VENT				
WC	SEE ARCHITECTURAL DRAWINGS	1"	-	4"	4"				
LAV	SEE ARCHITECTURAL DRAWINGS	1/2"	1/2"	2"	1-1/2"				
SK	ELKAY LRADQ-212155, 5 1/2" DEEP SINGLE COMPARTMENT, SELF RIMMING, 18 GAUGE, TYPE 304 STAINLESS STEEL SINK, W/ CHICAGO FAUCET MODEL # 786-GN2FCABCP LAMINAR FLOW FAUCET, OFFSET GRID DRAIN, CAST BRASS P-TRAP, AND BRASS STOPS W/ RIGID SUPPLIES & MIXING VALVE	1/2"	1/2"	2"	2"				
EDF	SURFACE MOUNTED ELECTRIC DRINKING FOUNTAIN, HALSEY TAYLOR MODEL HVGRN88L "HIGH-LO" BARRIER-FREE TYPE 304, 18 GAUGE STAINLESS STEEL WITH SATIN FINISH. PROVIDE MOUNTING FRAME AND WATER FILTER	1/2"	-	1-1/2"	1-1/2"				
MS	ACORN TERRAZZO-WARE MODEL #TNC-24-SH-SSC CORNER TYPE, FLOOR MOUNTED MOP SINK, DROP FRONT, STAINLESS STEEL CAP, W/CHICAGO FAUCET MODEL 897-CP FAUCET WITH VACUUM BREAKER SPOUT, PAIL HOOK, AND WALL BRACKET.	1/2"	1/2"	3"	1-1/2"				
FD	JAY R SMITH MODEL #2005-A-NB-P FLOOR DRAIN WITH ADJUSTABLE ROUND NICKEL BRONZE STRAINER AND TRAP PRIMER CONNECTION.	-	-	SEE PLANS	SEE PLANS				
ECO	WATTS CO-380 COATED CAST IRON CLEAN OUT FERRULE WITH NO-HUB CONNECTION AND BRONZE PLUG	-	-	PER PIPE SIZE	-				
FCO	WATTS CO-200-R COATED CAST IRON FLOOR CLEAN OUT	-	-	PER PIPE SIZE	-				
TP	JOSAM 88300 TRAP PRIMER VALVE AND DISTRIBUTION UNIT	-	-	-	-				
WCO	JAY R SMITH MODEL #4710 STAINLESS STEEL SHALLOW ROUND FACE-OF-WALL ACCESS COVER AND SCREW.	-	-	PER PIPE SIZE	-				
WHA	WATTS LF15M2 SERIES WATER HAMMER ARRESTOR, SIZED PER P.D.I. STANDARDS / TABLE V	-	-	-	-				
		PDI UNITS	AA	A	B	C	D	E	F
		FIXTURE UNITS	1-3	1-11	12-32	33-60	61-113	114-154	155-330

PIPE & FITTING SCHEDULE

TYPE	SIZE	MATERIAL	FITTINGS	LOCATION
WASTE AND VENT	15" AND SMALLER	STD. WT. C.I. HUBLESS	STD. NO-HUB COUPLINGS	ABOVE GRADE & BELOW GRADE
	15" AND SMALLER	STD. WT. C.I. HUB AND SPIGOT	STD. WT. C.I. HUB AND SPIGOT	BELOW GRADE (16 MIL WRAPPED)
DOMESTIC WATER	ALL SIZES	TYPE "L" HARD COPPER	WROUGHT COPPER	ABOVE GRADE
	ALL SIZES	TYPE "K" HARD COPPER	WROUGHT COPPER SILVER BRAZED	BELOW GRADE (16 MIL WRAPPED)
NATURAL GAS LOW PRESSURE	2" AND SMALLER	SCHEDULE 40 BLACK STEEL	THREADED FITTINGS ANSI B16.3, BLACK MALLEABLE IRON 150 LBS. OR ANSI B16.11 FORGED STEEL	ABOVE GRADE
NATURAL GAS MEDIUM PRESSURE	2 1/2" AND LARGER	SCHEDULE 40 BLACK STEEL	STANDARD WELD	ABOVE GRADE
	ALL SIZES	SCHEDULE 40 BLACK STEEL	STANDARD WELD	ABOVE GRADE
CONDENSATE DRAIN	ALL SIZES	TYPE "M" HARD COPPER	WROUGHT COPPER	ABOVE GRADE

EXPANSION TANK SCHEDULE

MARK	TYPE	TOTAL VOLUME	MAXIMUM ACCEPTANCE	CONN.	DIAMETER	HEIGHT	OPERATING WEIGHT	REMARKS
ET-1	DIAPHRAGM	2.0	0.9	3/4"	8"		21 LBS	AMTRON ST-1 50 PSI DIAPHRAGM 50 PSIG WORKING PRESSURE

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	CAPACITY (GAL)	TYPE	RECOVERY RATE (GPH @ 10° ΔT)	OPER. WT. (LBS)	ELECTRICAL					REMARKS
						KW	EA	V	P	H	
EWH-1	JANITOR'S CLOSET	12	TANK		233	6	-	208	1	60	AO SMITH MODEL DEL-20S-3.5

- NOTES:
1. WATER HEATER LOCATION TO COMPLY WITH ALL APPLICABLE CODES AS WELL AS MANUFACTURER'S CLEARANCE REQUIREMENTS.

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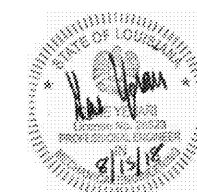
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Order Plans