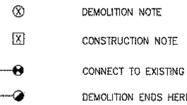
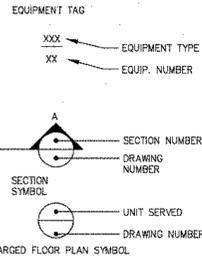


PLUMBING - SYMBOLS

	SANITARY LINE		THERMOMETER
	SANITARY LINE (EMBEDDED)		UNION
	VENT LINE		VENTURI FLOW MEASURING DEVICE
	ACID VENT LINE		WATER HAMMER ARRESTOR
	COLD WATER LINE		BALANCING VALVE
	HOT WATER LINE		BALL VALVE
	HOT WATER RETURN LINE		BUTTERFLY VALVE
	TEPID WATER LINE		CHECK VALVE
	COMPRESSED AIR LINE		GAS COCK
	CONDENSATE DRAIN		GATE VALVE
	GAS LINE		GLOBE VALVE
	EXISTING GAS LINE		RELIEF VALVE
	TRAP PRIMER		SOLENOID VALVE
	VACUUM LINE		PRESSURE REGULATING VALVE
	BACKFLOW PREVENTER		ELBOW DOWN
	DIRECTION OF FLOW		ELBOW UP
	EXPANSION JOINT		TEE TURNED UP
	FLEXIBLE CONNECTION		TEE TURNED DOWN
	FLOOR DRAIN		WALL HYDRANT/NFWH
	TRENCH DRAIN		HOSE BIBB
	PIPE GUIDE		CONTINUATION
	PIPE ANCHOR		PIPE CAP
	PRESSURE GAUGE WITH GAUGE COCK		CLEANOUT FLUSH IN FLOOR
	ROOF DRAIN		CLEANOUT IN HORIZONTAL RUN OR WALL CLEANOUT
	STRAINER		BACK WATER VALVE
	SUPPORT CURB		FUNNEL CONNECTION @ FLOOR DRAIN
	SUPPORT CURB w/ANCHOR		FLOW SWITCH
	GAS REGULATOR		VENT THROUGH ROOF (SHOWN PLAN/ELEV)
			MIXING VALVE
			PUMP
			CIRCULATOR PUMP
			DISTANCE FROM FLOOR TO BOTTOM OF OBJECT
			ACCESS PANEL
			METER
			ANGLE VALVE
			TEMPERATURE/PRESSURE RELIEF VALVE

PLUMBING - ABBREVIATIONS

ABV	ABOVE	INV	INVERT
AB CL	ABOVE CEILING	KW	KILOWATT
AD	AREA DRAIN	LAV	LAVATORY
AF	ABOVE FINISHED FLOOR	MB	MOP BASIN
AP	ACCESS PANEL	MC	MECHANICAL CONTRACTOR
AW	ACID WASTE	N/C	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
BFG	BELOW FINISHED GRADE	NFWH	NON-FREEZE WALL HYDRANT
BFP	BACKFLOW PREVENTER	N/O	NORMALLY OPENED
BOS	BOTTOM OF STEEL	NTS	NOT TO SCALE
BATHUB	BATHTUB	OD	OVERFLOW DRAIN
BTUH	BRITISH THERMAL UNITS PER HOUR	OS&Y	OUTSIDE STEM & YOE
CD	CONDENSATE DRAIN	F	PRESSURE GAUGE
CFH	CUBIC FEET PER HOUR	PC	PLUMBING CONTRACTOR
CI	CAST IRON	PD	PRESSURE DIFFERENCE
CLNG	CLEANING	PRV	PRESSURE REDUCING VALVE
CO	CONCRETE	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PVC	POLY VINYL CHLORIDE
DDC	DOUBLE DETECTOR CHECK VALVE	RD	ROOF DRAIN
DIP	DUCTILE IRON PIPE	RPM	REVOLUTIONS PER MINUTE
DF	DRINKING FOUNTAIN	RWC	RAINWATER CONDUCTOR
DN	DOWN	S	SOIL LINE/STACK
DST	DEEP SEAL TRAP	SAN	SANITARY
ED	ELECTRICAL CONTRACTOR	SD	SHOWER DRAIN
EES	EMERGENCY EYE WASH AND SHOWER	SH	SHOWER
EWC	ELECTRIC WATER COOLER	SS	SERVICE SINK
EXST	EXISTING	TD	TEMPERATURE DIFFERENCE
FD	FLOOR DRAIN	TMV	THERMOSTATIC MIXING VALVE
FD/T	FLOOR DRAIN WITH TRAP PRIMER	TD	TRENCH DRAIN
FFE	FINISH FLOOR ELEVATION	TP	TYPICAL
FCD	FLOOR CLEANOUT	UR	URINAL
FLR	FLOOR	V	VENT
FS	FLOOR SINK	VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR	W	WASTE
GH	GROUND HYDRANT	W/O	WITHOUT
GPM	GALLONS PER MINUTE	WC	WATER CLOSET
H	HANDICAPPED	WCD	WALL CLEANOUT
HB	HOSE BIBB	WF	WATER FOUNTAIN
HC	HEATING CONTRACTOR	WH	WATER HEATER
HP	HORSE POWER	WH	WATER HEATER
HW	HOT WATER	WHA	WATER HAMMER ARRESTOR
HWR	HOT WATER RETURN		



PLUMBING - GENERAL NOTES

- VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN FIELD BEFORE ORDERING EQUIPMENT OR FABRICATING COMPONENTS.
- UNLESS NOTED OTHERWISE, CONSTRUCTION MATERIAL AND EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF THE SITE.
- COORDINATE WORK WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES AND PROVIDE OFFSETS AND FITTINGS AS REQUIRED.
- COORDINATE WORK WITH ALL OTHER TRADES. CEILING HEIGHTS ON ARCHITECTURAL PLANS ARE FINAL.
- CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND PIPING BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES.
- INSTALL ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- CONTRACTOR IS REQUIRED TO NOTIFY FACILITY OWNERS NOT LESS THAN 3 AND NOT MORE THAN 10 WORKING DAYS PRIOR TO EXCAVATION OR DEMOLITION WORK WHEN USING POWERED EQUIPMENT.
- COORDINATE LOCATION OF ALL PIPING AND DEVICES BEFORE INSTALLATION WITH THE WORK OF OTHER TRADES. WHERE A CONFLICT IN AVAILABLE CLEARANCES OCCURS, OBTAIN CLARIFICATION FROM OTHER TRADES. WHERE A CONFLICT IN AVAILABLE CLEARANCES OCCURS, OBTAIN CLARIFICATION FROM THE ARCHITECT, AND PROVIDE WHATEVER ADDITIONAL PIPING, FITTINGS, ETC. ARE REQUIRED TO INSTALL PLUMBING SYSTEM WITHOUT ANY ADDITIONAL COST TO THE CONTRACT.
- VERIFY MOUNTING HEIGHTS OF EQUIPMENT FIXTURES W/ARCHITECT DRAWING BEFORE ROUGH-IN.
- BUILDING STORM WATER, DOMESTIC WATER, SANITARY, & GAS PIPING SHALL BE EXTENDED TO LIMIT DELINEATION OF CONTRACT LINE AS INDICATED ON DRAWINGS.
- THE PLUMBING CONTRACTOR SHALL MAKE A COMPLETE WASTE, VENT, HOT & COLD WATER CONNECTION TO ALL OWNER FURNISHED EQUIPMENT.
- INSTALL ALL PLUMBING EQUIPMENT AND MATERIALS IN STRICT ACCORDANCE WITH RESPECTIVE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- DIMENSIONS AND PIPE SIZES ARE IN INCHES UNLESS NOTED OTHERWISE.
- RUN PIPING CONCEALED EXCEPT IN MECHANICAL ROOMS OR WHERE NOTED OTHERWISE.
- RUN CONCEALED PIPING ON ROOM SIDE OF BUILDING INSULATION UNLESS NOTED OTHERWISE.
- ALL EXPOSED PIPING SHALL BE CLEANED AND HAVE THE SURFACE PREPARED TO RECEIVE PAINTED FINISH. PRIME AND PAINT THE EXPOSED PIPING IN COLOR AS SELECTED BY THE ARCHITECT.
- RUN 2" MINIMUM SIZE WASTE PIPING BELOW GROUND INSIDE BUILDING REGARDLESS OF SIZE NOTED ON FIXTURE SCHEDULE. SLOPE ALL SOIL, WASTE AND STORM WATER LINES PER CODE.
- CONNECT WATER, WASTE, AND VENT PIPING TO FIXTURES IN ACCORDANCE WITH SIZES INDICATED ON FIXTURE SCHEDULE.
- DIMENSIONS AND PIPE SIZES ARE IN INCHES UNLESS NOTED OTHERWISE.
- SEAL ALL FLOOR AND WALL PENETRATIONS IN FIRE RATED CEILING AND PARTITIONS TO MAINTAIN FIRE RATING. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE EXACT LOCATION OF DOWNSPOUT NOZZLES WITH THE ROOF DRAIN TO DOWNSPOUT NOZZLE.
- COORDINATE ACCESS PANELS AND DOORS WITH ARCHITECT FEATURES.
- CONTRACTOR SHALL PROVIDE PIPE SLEEVES IN ALL FOUNDATION WALLS FOR PIPING PENETRATIONS.
- ALL DOMESTIC WATER PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE UNLESS OTHERWISE INDICATED.
- MAKE ALL FINAL CONNECTIONS TO THE EQUIPMENT AS SHOWN ON THE DRAWINGS. PROVIDE SHUT-OFF VALVES IN ALL INDIVIDUAL WATER CONNECTIONS. IF APPLICABLE, PROVIDE SHUT-OFF VALVES IN ALL INDIVIDUAL GAS CONNECTIONS.
- INSTALL VACUUM BREAKER ON ALL DRAIN VALVES, WALL HYDRANTS, AND ALL HOSE CONNECTIONS.
- RUN ALL PIPING ABOVE CEILING UNDER BUILDING INSULATION OR CONCEALED IN WALLS, UNLESS NOTED OTHERWISE. ALL WASTE LINES AS SHOWN SHALL BE BELOW FLOOR, UNLESS NOTED OTHERWISE.
- FURNISH AND INSTALL ACCESS PANELS (FIRE-RATED) WHERE REQUIRED, WHERE SHOWN, OR REQUIRED FOR ACCESS TO ALL CONCEALED VALVES, TRAPS OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS PROVIDED.
- INSTALL UNIONS ON PIPING TO PERMIT EASY DISCONNECTING.
- CONCEAL ALL PIPING, VALVES AND FITTINGS ABOVE CEILINGS AND IN CHASES WHERE THEY OCCUR, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL RIGIDLY SUPPORT ALL EQUIPMENT.
- ALL SANITARY AND STORM SEWER PIPING SHALL BE RUN AT 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. ALL SANITARY SEWER PIPING 2" AND SMALLER SHALL BE RUN AT 1/8" PER FOOT SLOPE.
- PROVIDE AND INSTALL ANGLE SHUTOFF VALVES AT EACH FIXTURE REQUIRING WATER. VALVES FOR WALL MOUNTED FIXTURES SHALL BE CHROME PLATED, THREADED, HEAVY DUTY TYPE AND HAVE LOOSE KEY STOPS. VALVES FOR COUNTERTOP FIXTURES SHALL BE 1/4 TURN BALL VALVES. PROVIDE SHUT-OFF VALVE IN ALL HOT WATER SUPPLY BRANCHES AND COMBINATION SHUT-OFF AND BALANCE VALVE IN ALL HOT WATER RETURN BRANCHES. LOCATE IN ACCESSIBLE CEILING SPACE OR IF INSIDE EQUIPMENT ENCLOSURES, PROVIDE ACCESS DOOR.

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Approved Project Director
CHRISTOPHER HALL

Project Title
KITCHEN RENOVATIONS

Location

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Drawing Number
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Drawn
 DLS

Dwg. 1 of 1

Office of Construction and Facilities Management

