

PLUMBING SYMBOLS

NOT ALL SYMBOLS MAY APPLY

----	EXISTING COLD WATER PIPING
----	EXISTING HOT WATER PIPING
----	EXISTING HOT WATER RETURN PIPING
----	EXISTING UNDERGROUND SEWER
----	EXISTING SUSPENDED SEWER
----	EXISTING VENT PIPING
----	COLD WATER PIPING (INSULATED)
----	HOT WATER PIPING (INSULATED)
----	HOT WATER RETURN PIPING (INSULATED)
—TW—	TEMPERED WATER PIPING (INSULATED)
—TWR—	TEMPERED WATER RETURN PIPING (INSULATED)
----	UNDERGROUND SEWER
----	SUSPENDED SEWER
----	VENT PIPING
— —	DRAIN TILE
—+—	UNION
II- CO	CLEAN-OUT PLUG
NOTE: JR SMITH OR MIFAB ACCEPTIBLE	
II- WCO	WALL CLEAN-OUT ("SMITH" #4422, MIFAB C1450-RD)
FCO-1	FLOOR CO ("SMITH" #4040, MIFAB C1220-S-3) FF
FCO-2	FLOOR CO ("SMITH" #4020) FINISHED AREAS
FCO-3	FLOOR CO ("SMITH" #4220, MIFAB C1220-XR-4) UNFF
FCO-4	FLOOR CLEAN-OUT ("SMITH" #4250) NO-LOAD AREAS
FD-1	FLOOR DRAIN ("SMITH" #2010A-NB, MIFAB F1100-C-5-3)
FD-2	FLOOR DRAIN ("SMITH" #2210, MIFAB F1320-TFB)
FD-3	FLOOR FUNNEL DRN ("SMITH" #3510, MIFAB F1100-C-EF-3)
FD-4	FLOOR DRAIN ("SMITH" #2230)
HD	HUB DRAIN
AD	AREA DRAIN ("SMITH" #2675)
FS	FLOOR SINK ("SMITH" #3101-12)
RD	ROOF DRAIN ("SMITH" #1010-C-CID)
OD	OVERFLOW ROOF DRAIN ("SMITH" #1070-C-CID)
DSN	DOWNSPOUT NOZZLE ("SMITH" #1770-B5)
GV	GATE VALVE ("NIBCO" #S-134 OR T-134)
BV	BALL VALVE ("NIBCO" #S-585-70 OR T-585-70)
BV	BALANCING VALVE ("NIBCO" #S-1710 OR T-1710)
CV	CHECK VALVE ("NIBCO" #S-433 OR T-433)
STR	STRAINER ("NIBCO" #S-221/222-A OR T-221/222-A)
DCV-2	DUAL CHECK WITH VENT AND STRAINER ("WATTS" #SD-3)
DCAV	DUAL CHECK WITH ATMOSPHERIC VENT ("WATTS" #9D)
DCV	DUAL CHECK VALVE ("WATTS" SERIES 7)
PVB	PRESSURE VACUUM BREAKER ("WATTS" #008PCQT)
VB	ATMOSPHERIC VACUUM BREAKER ("WATTS" #288A)
BSC	BOXED WALL HYDRANT ("SMITH" #5509-QT)
SC	WALL HYDRANT ("SMITH" #5609-QT)
HB	HOSE BIB ("WOODFORD #24P)
YH	YARD HYDRANT ("SMITH" #5810-05B)
TD	TRENCH DRAIN ("SMITH" #9816)
P 1	STACK OR RISER DESIGNATION
+	NEW CONNECTION BETWEEN NEW AND EXISTING

PLUMBING NOTES

- ALL CLEAN-OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEAN-OUT LOCATIONS WITH EQUIPMENT CABINETS, ETC. PROVIDE FULL SIZED CLEANOUTS ON STRAIGHT RUN INTERVALS NOT TO EXCEED FIFTY (50') AS WELL AS AT EACH CHANGE OF DIRECTION GREATER THAN (60 DEGREES). FIXTURE TRAPS (I.E. FLOOR DRAINS) SHALL NOT CONSTITUTE CLEAN-OUT ACCESS POINTS IF A CABLE MUST MAKE TWO (2) OR MORE RIGHT ANGLE TURNS IN ORDER TO ENTER THE MAIN DRAIN OR STACK.
- ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12" FROM ANY VERTICAL SURFACE AND 12'-0" HORIZONTALLY FROM ANY OUTSIDE FRESH AIR INTAKE OR A MINIMUM OF 24" ABOVE FRESH AIR IN-TAKES IF THE 12'-0" HORIZONTAL SEPARATION IS NOT POSSIBLE.
- INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE.
- PROVIDE 12" (MINIMUM) LONG AIR CHAMBERS ON ALL WATER SUPPLY LINES TO FIXTURES AND EQUIPMENT. PROVIDE WATER HAMMER ARRESTORS AT ALL FIXTURES WITH QUICK-CLOSING VALVES/FAUCETS.
- PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE TWO (2) TIMES THE DIAMETER OF THE INDIRECT DRAIN.
- PROVIDE DI-ELECTRIC UNIONS, COUPLINGS, ADAPTORS OR FLANGES AT ALL TRANSITIONS OF FERROUS PIPING TO NON-FERROUS PIPING.
- PROVIDE NON-REMOVEABLE/INTEGRAL VACUUM BREAKER ON ALL NEW AND EXISTING MOP BASIN FAUCETS AND ALL OTHER NEW AND EXISTING THREADED HOSE OUTLETS, HOSE BIBS AND WALL HYDRANTS.
- COORDINATE ROUTING OF ALL PIPING SYSTEMS TO AVOID DUCTWORK, ELECTRICAL CONDUIT, BEAMS AND OTHER STRUCTURAL MEMBERS.
- PROVIDE APPROVED BACK-FLOW PREVENTION DEVICE ON ALL SODA DISPENSERS, COFFEE MAKERS, CAPPUCCINO MAKERS, CARBONATORS, ICE MACHINES, ETC. PER LOCAL CODE REQUIREMENTS AND EQUIPMENT/FIXTURE MANUFACTURER'S REQUIREMENTS. LOCATE IN AN ACCESSIBLE AREA.
- PROVIDE GROUTING/CAULKING WHERE FIXTURES MEET WALLS, FLOORS, COUNTERTOPS, ETC.
- PROVIDE APPROVED AIR GAP FITTING PROTECTION AT DISHWASHER DISCHARGE INTO SANITARY SYSTEM.
- PROVIDE ADA-COMPLIANT FLUSH VALVE HANDLES THAT ACTIVATE WITH FIVE FOOT POUNDS OF PRESSURE OR LESS FORCE. LOCATE ALL WATER CLOSET FLUSH VALVE HANDLES ON WIDE SIDE OF STALLS.
- ALL ROOF DRAIN PENETRATIONS SHALL BE SQUARE, WATERTIGHT OPENINGS WITH 18-24 INCH METAL FLASHING. ALL ROOF DRAINS SHALL BE LOCATED A MINIMUM OF 12-18 INCHES FROM ANY PARAPET WALL OR OTHER OBSTRUCTION.
- PROVIDE AN EXPANSION JOINT AT ALL ROOF DRAINS OR AT A HORIZONTAL SECTION OF THE STORM PIPE BRANCH LINE.
- INSULATE ALL ROOF DRAIN BODIES AND HORIZONTAL SECTIONS OF PIPE PER COLD WATER INSTALLATIONS WITH A VAPOR BARRIER.
- ALL EXPOSED WASTE PIPING LOCATED IN TOILET ROOMS SHALL BE CHROME PLATED BRASS WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE LOOSE KEY TYPE STOPS IN ALL PUBLIC AREAS OR WHERE VANDAL RESISTANT INSTALLATIONS ARE REQUIRED. ALL RISER TUBES SHALL BE RIGID AND CHROME PLATED.
- PROVIDE PROTECTIVE INSULATED PIPE COVERS ON P-TRAPS, ANGLE STOPS, OFFSET TAILPIECES, RISER SUPPLY TUBES, ETC. FOR ALL ADA ACCESSIBLE FIXTURES.
- PROVIDE A.S.S.E. 1016 APPROVED POINT-OF-USE THERMOSTATIC MIXING VALVE TO SUPPLY 110 DEGREES (MAXIMUM) HOT WATER TO ALL PUBLIC AND ADA ACCESSIBLE LAVATORIES. PROVIDE 115 DEGREE F (MAXIMUM) HOT WATER TO ALL SHOWERS. PROVIDE 140 F DEGREE HOT WATER TO ALL FIXTURES WHERE HOT WATER IS REQUIRED FOR SANITIZING OR CLEANING.
- PROVIDE A VACUUM RELIEF VALVE ON ALL ELEVATED OR BOTTOM FED WATER HEATERS IN ADDITION TO A TEMPERATURE & PRESSURE RELIEF VALVE.
- PROVIDE DRIP VALVE ON THE DISCHARGE SIDE OF THE DOMESTIC WATER METER.
- OUTLET TEMPERATURE ON ALL WATER HEATERS SHALL BE SET AT 135 DEGREES F (MINIMUM) AND THERMOSTATICALLY MIXED DOWN AT POINTS INDICATED ON PLANS.
- ALL BACK-FLOW PREVENTION DEVICES SHALL BE TESTED IN-LINE AND APPROVED BY A CROSS-CONNECTION CONTROL DEVICE INSPECTOR BEFORE BEING PLACED INTO SERVICE. BACK-FLOW PREVENTION DEVICES SHALL BE TESTED AND MAINTAINED AT LEAST ANNUALLY BY A CROSS-CONNECTION CONTROL DEVICE INSPECTOR AND RECORDS TO VERIFY TESTING AND MAINTENANCE SHALL BE AVAILABLE AT THE SITE OF THE INSTALLATION OF THE DEVICE. BACK-FLOW PREVENTION DEVICES SHALL NOT BE INSTALLED MORE THAN 5'-0" ABOVE THE FLOOR. PROVIDE A PROTECTIVE STRAINER UPSTREAM OF ALL BACK-FLOW PREVENTION DEVICES UNLESS THE DEVICE CONTAINS A BUILT-IN STRAINER.
- PROVIDE LEAD ROOF FLASHING ON ALL VENT STACKS PENETRATING THROUGH THE ROOF (EXCEPT RUBBER ROOFS). PROVIDE INCREASER FITTINGS.
- FURNISH FIRE RATED PIPE SLEEVE OR FIRE CAULKING ON ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS/FLOORS.
- PLUMBING CONTRACTOR TO VERIFY ALL EXISTING WASTE, VENT AND WATER SUPPLY PIPING WHERE NEW CONNECTIONS ARE TO BE MADE PRIOR TO BID. VERIFY EXACT SIZE, LOCATION, INVERT, CONDITION AND REQUIREMENTS IN FIELD. REPORT ANY MAJOR DISCREPANCIES TO ARCHITECT/ENGINEER IMMEDIATELY.

PLUMBING SPECIFICATIONS

THE GENERAL CONDITIONS AND SUPPLEMENTAL GENERAL CONDITIONS ISSUED BY THE ARCHITECT SHALL GOVERN WHERE APPLICABLE.

THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. NO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF BIDS.

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL; ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES. PRESERVE MAXIMUM HEADROOM, AND AVOID OMISSIONS.

CONTRACTOR TO MAKE ALL NECESSARY TAPS, AS CALLED FOR ON THE DRAWINGS.

THIS CONTRACTOR SHALL REMOVE ALL DEBRIS ON A REGULAR BASIS AND UPON COMPLETION OF THE JOB AND CLEAN ALL FIXTURES.

COVER ALL HOT AND COLD LINES, ROOF DRAINS AND HORIZONTAL DOWNSPOUT PIPING. PIPE COVERING TO BE SHALL BE 3-1/2 LB. DENSITY FIBERGLASS WITH MOLDED FITTINGS AND BUTT JOINTS AND VAPOR BARRIER. WATER PIPING INSULATION SHALL BE INSTALLED PER 2012 IECC SEC. C404.5.

IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO START UP, ADJUST AND CHECK FOR PROPER OPERATION ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT.

THIS CONTRACTOR SHALL ALLOW IN HIS INITIAL BID THE COST OF SERVICE ON ALL EQUIPMENT INSTALLED UNDER HIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE WORK.

ALL WATER PIPING SHALL BE TESTED WITH WATER UNDER PRESSURE OF 100 PSIG FOR 10 MINUTES, AND MADE TIGHT AT THIS PRESSURE.

ALL SOIL, WASTE AND VENT PIPING SHALL BE SUBJECTED TO A HYDROSTATIC TEST OF NOT LESS THAN 10 FEET OF WATER COLUMN FOR 15 MINUTES BEFORE INSPECTION STARTS AND PROVEN TIGHT.

BEFORE TURNING PLUMBING SYSTEM OVER TO THE OWNER, CHLORINATE ALL DOMESTIC WATER PIPING FOR A PERIOD OF 24 HOURS. AFTER CHLORINATION HAS BEEN COMPLETED, FLUSH ALL PIPING UNTIL WATER RUNS CLEAR AND IS RESIDUAL CHLORINE FREE.

ALL BELOW GROUND WASTE & VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON. SCHEDULE 40 PVC IS ACCEPTABLE FOR UNDERGROUND STORM IF PERMITTED BY LOCAL CODE. THE MINIMUM DIAMETER FOR ALL UNDERGROUND WASTE PIPING IS FOUR (4) INCHES. THE MINIMUM DIAMETER FOR ALL UNDERGROUND VENT PIPING IS TWO (2) INCHES. ALL BELOW GROUND WATER PIPING SHALL BE TYPE "K" COPPER. ALL ABOVE GROUND WATER PIPING SHALL BE TYPE "L" COPPER. ALL ABOVE GROUND WASTE AND VENT PIPING 2" AND SMALLER SHALL BE TYPE "M" COPPER. ALL ABOVE GROUND WASTE AND VENT PIPING 3" AND LARGER SHALL BE NO HUB CAST IRON. SCHEDULE

THE PLUMBING SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH THE STATE OF ILLINOIS PLUMBING CODE AND ALL LOCAL CODES, AMENDMENTS AND ORDINANCES.

WATER PIPING SHALL BE TESTED AT 1000 PSIG AND GAS TESTED AT 75 PSIG AND WITNESSED BY THE PLUMBING INSPECTOR.



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DATE:

REVISION:

DATE:

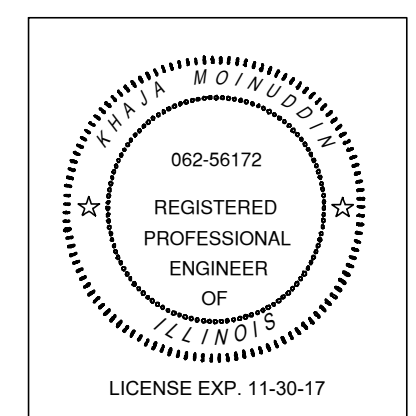
ISSUED AS:

2-26-15	PRELIMINARY DESIGN
9-16-15	PERMIT SUBMITTAL
10-28-15	PERMIT REVISION
10-10-16	PERMIT RE-SUBMITTAL
10-19-16	ISSUE FOR PRICING
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SHEET TITLE:

PLUMBING NOTES DETAILS & SPECS  
SHEET NUMBER:

P-00



C. Noiret

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