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PLUMBING SYMBOLS	
----	COLD WATER SUPPLY PIPING
----	HOT WATER SUPPLY PIPING
----	HOT WATER RETURN PIPING
----	CONDENSATE PIPING
----	GAS PIPING
----	SANITARY DRAINAGE & WASTE PIPING
----	SANITARY VENT PIPING
----	WATER SERVICE
----	BACKFLOW PREVENTER
BP	BOOSTER PUMP
BV	BALL VALVE
CB	CAST BRASS
CI	CAST IRON
CIP	CAST IRON PIPE
CO	CLEANOUT
CP	CHROME PLATED
CWS	COLD WATER SUPPLY
DI	DUCTILE IRON
ETR	EXISTING TO REMAIN
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWRP	HOT WATER RETICULATION PUMP
LAV	LAVATORY
MB	MOP BASIN
NC	NEW CONNECTION
PRV	PRESSURE REDUCING VALVE
S	SEWER
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PIPING
UG	UNDERGROUND
W	WASTE
WC	WATER CLOSET
WH	WATER HEATER
NEW CONNECTION	FLOOR CLEANOUT
FLOOR DRAIN	FLOOR DRAIN
LINE SIZE GATE VALVE	LINE SIZE GATE VALVE
LINE SIZE BALANCING VALVE	LINE SIZE BALANCING VALVE
LINE SIZE BALL VALVE (2" & SMALLER) OR LINE SIZE BUTTERFLY VALVE (2-1/2" & LARGER)	LINE SIZE BALL VALVE (2" & SMALLER) OR LINE SIZE BUTTERFLY VALVE (2-1/2" & LARGER)
LINE SIZE CHECK VALVE	LINE SIZE CHECK VALVE
LINE SIZE SHUT-OFF VALVE	LINE SIZE SHUT-OFF VALVE
LINE SIZE PRESSURE REDUCING VALVE	LINE SIZE PRESSURE REDUCING VALVE
LINE SIZE UNION	LINE SIZE UNION

- ### PLUMBING GENERAL NOTES
- ALL WORK SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LOCAL BUILDING CODE.
 - ALL AUTHORITIES HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST THREE WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
 - ALL PIPING SHALL BE ROUTED IN THE SUSPENDED CEILING SPACE UNLESS OTHERWISE INDICATED. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURE.
 - EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH CHROME PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA.
 - SLEEVE OR CORE-DRILL FLOOR SLABS, WALLS, ETC. AS REQUIRED FOR PIPING AND FIRE-STOP OPENINGS AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING.
 - ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
 - ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED.
 - WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOFS, ETC. ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION. ALL SEALED WEATHERING SHALL BE PERFORMED BY QUALIFIED TRADES.
 - ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINE AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL WORK SHALL BE COMPLETED EXCEPT IN UNFINISHED SPACES. INSTALL REQUIREMENTS TO MEET CONSTRUCTION CONDITIONS AND ALLOW FOR SETTLEMENT. PROVIDE AN ISOLATING DIELECTRIC UNION AND NUT FOR FERROUS PIPING.
 - PROVIDE FITTINGS, FLANGES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.
 - DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED.
 - PROVIDE A COMPLETE SYSTEM OF SCHEDULE 40 GALVANIZED STEEL VENT PIPES ABOVE FLOOR. ALL VENTS SHALL BE CARRIED THROUGH THE ROOF WITH FLASHING. ALTERNATE MATERIALS MAY BE ALLOWED IF APPROVED BY LOCAL CODE AUTHORITIES.
 - CONDENSATE AND INDIRECT DRAIN PIPING SHALL BE TYPE M COPPER TUBING UP TO 1" O.D. TYPE DWV TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZES. ALTERNATE MATERIALS MAY BE ALLOWED IF APPROVED BY LOCAL CODE AUTHORITIES.
 - PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE. FIELD VERIFY LOCATION OF ALL EXISTING CLEANOUTS AND ADJUST TO NEW FINISHED FLOOR ELEVATIONS AND PROVIDE ACCESS PANELS FOR WALLS AND CEILINGS.
 - HOT AND COLD WATER PIPING SHALL BE TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. PROVIDE MINIMUM 12" HIGH FULL AIR CHAMBER AT EACH FIXTURE STOP.
 - INSULATE ALL HOT AND COLD WATER PIPING BOTH VERTICALLY AND HORIZONTALLY IN CEILING AND CONCEALED IN WALLS COMPLETELY. PROVIDE 1" PREFORMED FIBERGLASS ASJ-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547.
 - PIPING ROUTED IN EXTERIOR WALLS SHALL BE ROUTED ON WARM SIDE OF BUILDING WALL INSULATION.
 - ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, CLEANOUTS, ETC. ARE CONCEALED WITHIN CEILINGS AND WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.
 - TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.
 - THE DOMESTIC WATER SYSTEM AND DRAINAGE SYSTEMS SHALL BE FLUSHED AND PRESSURE TESTED. THE DOMESTIC WATER SYSTEM SHALL BE PURIFIED.
 - DRAINAGE PIPING UNDERGROUND AND OUTSIDE THE BUILDING SHALL BE CAST IRON PIPE AND FITTINGS. ALTERNATE MATERIALS MAY BE ALLOWED IF APPROVED BY LOCAL CODE AUTHORITIES.
 - DRAINAGE PIPING INSIDE THE BUILDING SHALL BE CAST IRON PIPE AND FITTINGS WITH SCH. 40 GALVANIZED STEEL VENTS. ALTERNATE MATERIALS MAY BE ALLOWED IF APPROVED BY LOCAL CODE AUTHORITIES.
 - ALL FLOOR DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER SYSTEM.
 - PROVIDE A COMPLETE NATURAL GAS PIPING SYSTEM AS NOTED ON THE DRAWINGS. PROVIDE EITHER THREADED STEEL OR MALLEABLE IRON PIPE WITH MALLEABLE FITTINGS OR WELDED STEEL. PROVIDE ALL UNIONS, SHUT-OFF VALVES AND DIRT LEGS REQUIRED BY NFPA-54 AND COVERING LOCAL CODES. PROVIDE ALL TESTS, METERS, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. PAINT PIPING ON ROOF WITH TWO COATS OF RUST RESISTANT OUTDOOR PAINT.
 - PROVIDE CLEAR ACCESS TO ALL EQUIPMENT AND VALVES.

EQUIPMENT INSTALLATION NOTES

PRODUCTION ROOM:
KRISPY KREME DOUGHNUT CORPORATION (KKDC)/KRISPY KREME FRANCHISEE WILL PROVIDE ALL DOUGHNUT EQUIPMENT ALONG WITH UNLOADING AND ASSEMBLY (GENERAL CONTRACTOR WILL PROVIDE 2 HELPERS TO UNLOAD FOR A MAXIMUM OF 4 HOURS). GENERAL CONTRACTOR WILL PROVIDE ELECTRICIANS AND PLUMBERS TO MAKE CONNECTIONS. KRISPY KREME FRANCHISEE WILL PROVIDE EXHAUST HOOD AND FANS WITH INSTALLED ANSUL SYSTEM. THE MECHANICAL CONTRACTOR WILL INSTALL THE HOOD AND FANS AND PROVIDE AND INSTALL ALL DUCT WORK. ELECTRICIAN WILL MAKE CONNECTIONS. KRISPY KREME FRANCHISEE WILL PROVIDE 600V GROUNDING AND PLUMBER WILL INSTALL. KRISPY KREME FRANCHISEE WILL FURNISH AND CONTRACTOR WILL INSTALL STEAM HOOD OVER GLAZE COOKER.

WASHROOM:
KRISPY KREME FRANCHISEE WILL PROVIDE 3 COMPARTMENT 60K GENERAL CONTRACTOR WILL UNLOAD, SET IN PLACE, ASSEMBLE AND PROVIDE VENTING PLUMBING AND ELECTRICAL CONNECTIONS. GENERAL CONTRACTOR WILL INSTALL POT RACK AND CUTTER RACKS ON WALL.

architect + engineer



project no. | KRKDS0003

owner



project info

CONCORD
NORTH CAROLINA

issue dates

submission	date
OWNER'S REVIEW	11/01/2016
BID SET	11/01/2016
PERMIT SET	11/01/2016

revisions:

#	Description	Date

seal



NOV 02 2016

sheet info

PLUMBING
NOTES AND
SYMBOLS
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