	PLUMBING SYMBOLS
	GATE VALVE
—×—	GLOBE VALVE
	CHECK VALVE
<u> </u>	BUTTERFLY VALVE
<u> </u>	BALL VALVE
— V —	PLUG VALVE
GPM GPM	CALIBRATED BALANCING SHUT-OFF VALVE & GPM SETTING
↓ —	ANGLE VALVE
——————————————————————————————————————	TWO-WAY CONTROL VALVE
——————————————————————————————————————	THREE-WAY CONTROL VALVE
SI	SOLENOID VALVE
	STRAINER
<u> </u>	PRESSURE REGULATING VALVE
*	SAFETY RELIEF VALVE
	VENTURI FLOW MEASURING DEVICE
—[AS]—	AIR SEPARATOR
—	UNION
T	TEMPERATURE/PRESSURE TEST PLUG
<u> </u>	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER
•—————————————————————————————————————	WALL HYDRANT (NON-FREEZE)
C─────────────────────────────	ROOF HYDRANT (NON-FREEZE)
<u> </u>	HOSE BIBB
——————————————————————————————————————	PUMP
	CIRCULATOR PUMP
□ WHA	WATER HAMMER ARRESTER
○ <u>FD-#</u>	FLOOR DRAIN
○ <u>AD-#</u>	AREA DRAIN (STORM WATER)
O <u>RD-#</u>	ROOF DRAIN
	PIPE ANCHOR
	PIPE GUIDE
-()	PIPE TRANSITION
-	EXPANSION COMPENSATOR
_	FLEXIBLE CONNECTION
C	ELBOW DOWN
0	ELBOW UP
	TEE DOWN
	TEE UP
	FLOW ARROW
<u>FCO</u>	FLOOR CLEANOUT FLUSH WITH FINISH FLOOR
<u>YCO</u>	YARD CLEANOUT FLUSH IN GRASS OR PAVED AREA
<u>CO</u>	CLEANOUT IN HORIZONTAL RUN
<u>\ vco</u>	CLEANOUT IN VERTICAL DROP EXPOSED
<u>WCO</u>	CLEANOUT IN VERTICAL DROP WITH EXTENSION THROUGH WALL
]	PIPE CAP
	CONTINUATION BREAK
AD	ACCESS DOOR IN WALL OR CEILING
•	CONNECT TO EXISTING
•	LIMIT OF DEMOLITION
0'-0"	DISTANCE FROM FLOOR TO BOTTOM OF OBJECT
→ TB	CONCRETE THRUST BLOCK
.01 —⊳	SLOPING PIPE (.01 = 1%) & DIRECTION OF SLOPE

PLUMBING SYMBOLS

EXISTING PIPING SYMBOLS						
	EXISTING PIPING TO BE REMOVED					
xxx	EXISTING PIPING TO REMAIN - SERVICE IS SAME DESIGNATION AS NEW					
	EXISTING PIPING NOTED AS CAPPED AND PORTION REMOVED					

SLOPING PIPE (.01 = 1%) & DIRECTION OF SLOPE

GENERAL SYMBOLS						
X P-X	SECTION MARKER					
X P-X	PARTIAL PLAN / DETAIL MARKER					
XX XX	RISER TYPE: S:SANITARY/W:WASTE/V:VENT/CW:COLD WATER/HW:HOT WATER RISER NUMBER					

	PLUMBING LINE TYPES
	FLUIVIDIING LIINE I TPES
	POTABLE DOMESTIC COLD WATER
NP	NON-POTABLE DOMESTIC COLD WATER
	DOMESTIC HOT WATER (120°F)
	DOMESTIC HOT WATER RECIRCULATION (120° F)
140°	DOMESTIC HOT WATER (140°F)
140°	DOMESTIC HOT WATER RECIRCULATION (140°F)
	SANITARY SEWER (GRAVITY)
VSAN	SANITARY SEWER (VACUUM)
w	WASTE
AW	ACID WASTE
——————————————————————————————————————	SLURRY SUPPLY/RETURN FOR PULPER
	VENT
AV	ACID VENT
SD	STORM DRAIN
OSD	OVERFLOW (SECONDARY) STORM DRAIN
SSD	SIPHONIC STORM DRAIN SYSTEM
ID	INDIRECT DRAIN
—— G ——	NATURAL GAS
———GR———	GREASE (WASTE) LINE
IW	INDIRECT WASTE
———PD———	PUMP DISCHARGE

	ABBF	REVIATIO	ONS
AD ADA AFF AMB AMP AV AW BLDG BOTU BTUH CA CAP CD CI CCO CP CW DDIA DWG E.C EFF EQUIP ET ETR ETR ETR FC	ACCESS DOOR AMERICAN DISABILITY ACT ABOVE FINISH FLOOR AMBIENT AMPERE ACID VENT ACID WASTE BUILDING BOTTOM BRITISH THERMAL UNITS BRITISH THERMAL UNITS PER HOUR COMPRESSED AIR CAPACITY CONDENSATE DRAIN CAST IRON CEILING CLEAN OUT CONDENSATE PUMP COLD WATER DIRECT DIGITAL CONTROL DIAMETER DOWN DRAWING ELECTRICAL CONTRACTOR EFFICIENCY ELEVATION EQUIPMENT EXPANSION TANK EXISTING TO REMAIN ENTERING WATER TEMPERATURE EXISTING FAHRENHEIT FLEXIBLE CONNECTION FLOOR CLEAN OUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FEET FEET PER MINUTE FLOOR SINK GAS GALLON GENERAL CONTRACTOR	IN WC INV KEC L LB LF LVR LWT MAX MBH MC MFR MIN MTD NC NFRH NFWH NIC OC P PD PLBG PRES PSIG PVC RD RH RM RPM RPM RWC SAN SD SHT SPEC TEMP TYP VEL VFD V VTR	INCHES, WATER COLUMN INVERT KITCHEN EQUIPMENT CONTRACTOR LENGTH POUND LINEAR FEET LOUVER LEAVING WATER TEMPERATURE MAXIMUM BTUH × 1000 MECHANICAL CONTRACTOR MANUFACTURER MINIMUM MOUNTED NORMALLY CLOSED NON-FREEZE ROOF HYDRANT NOT IN CONTRACT ON CENTER PUMP PLUMBING CONTRACTOR PRESSURE DROP PLUMBING PRESSURE POUNDS PER SQUARE INCH GAUGE POLYVINYL CHLORIDE ROOF DRAIN RELATIVE HUMIDITY ROOM REVOLUTIONS PER MINUTES RAINWATER CONDUCTOR SECONDARY ROOF DRAIN SANITARY STORM DRAIN SHEET SPECIFICATIONS TEMPERATURE TYPICAL VELOCITY VARIABLE FREQUENCY DRIVE VENT VENT THROUGH ROOF
FS G GAL	FLOOR SINK GAS GALLON	VEL VFD V	VELOCITY VARIABLE FREQUENCY DRIVE VENT

PLUMBING GENERAL NOTES:

- 1. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE ORDERING EQUIPMENT OR FABRICATING COMPONENTS.
- 2. UNLESS NOTED OTHERWISE, CONSTRUCTION MATERIAL AND EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF THE
- 3. INSTALL ALL EQUIPMENT AND MATERIALS IN STRICT ACCORDANCE WITH RESPECTIVE MANUFACTURER'S WRITTEN INSTRUCTIONS UNLESS THERE IS A CONFLICT BETWEEN THESE INSTRUCTIONS AND THE IPC 2009. IF A CONFLICT OCCURS, THE MORE STRINGENT REQUIREMENT
- 4. COORDINATE WORK WITH STRUCTURAL AND ARCHITECTURAL FEATURES AND PROVIDE OFFSETS AND FITTINGS AS REQUIRED.
- 5. COORDINATE WORK WITH ALL OTHER TRADES. CEILING HEIGHTS ON ARCHITECTURAL PLANS ARE
- 6. ALL DIMENSIONS AND PIPE SIZES ARE IN INCHES UNLESS NOTED OTHERWISE.
- 7. RUN PIPING CONCEALED EXCEPT IN MECHANICAL ROOMS OR WHERE NOTED OTHERWISE.
- 8. PROVIDE ACCESS PANELS IN WALLS OR CEILINGS WHERE REQUIRED FOR ALL CONCEALED VALVES AND EQUIPMENT WHERE NO OTHER ACCESS IS PROVIDED. INSTALL RATED ACCESS PANELS IN FIRE RATED CONSTRUCTION TO MAINTAIN RATING.
- 9. RUN CONCEALED PIPING ON ROOM SIDE OF BUILDING INSULATION UNLESS NOTED OTHERWISE. 10. 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
- 11. RUN 2" MINIMUM SIZE WASTE PIPING BELOW GRADE INSIDE BUILDING REGARDLESS OF SIZE NOTED ON FIXTURE SCHEDULE.
- 12. SLOPE ALL SOIL, WASTE AND STORM WATER LINES PER CODE.
- 13. CONNECT WATER, WASTE, AND VENT PIPING TO FIXTURES IN ACCORDANCE WITH SIZES INDICATED ON FIXTURE SCHEDULE. RUN-OUTS TO FIXTURES WITHOUT SIZES INDICATED ON DRAWINGS, SHALL BE THE SAME SIZE AS THE CONNECTOR SIZE FOR THE CORRESPONDING FIXTURE AS INDICATED ON THE FIXTURE SCHEDULE.
- 14. PLUMBING CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND PIPING BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND
- 15. INSTALL ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- 16. PATCH ALL OPENINGS IN BUILDING CONSTRUCTION WHERE PIPING, ETC. IS INSTALLED. MATERIAL AND FINISH TO MATCH EXISTING SURROUNDING CONSTRUCTION.
- 17. SEAL ALL FLOOR AND WALL PENETRATIONS IN FIRE RATED CEILINGS AND PARTITIONS TO MAINTAIN FIRE RATING. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- 18. PLUMBING CONTRACTOR SHALL PROVIDE PIPE SLEEVES IN ALL FOUNDATION WALLS FOR PIPING PENETRATIONS.
- 19. PLUMBING CONTRACTOR IS REQUIRED TO NOTIFY FACILITY OWNERS NOT LESS THAN 3 AND/OR NOT MORE THAN 10 WORKING DAYS PRIOR TO EXCAVATION OR DEMOLITION WORK WHEN USING POWERED EQUIPMENT ON PUBLIC OR PRIVATE PROPERTY.
- 21. PLUMBING CONTRACTOR SHALL VERIFY AND CONFIRM ALL PLUMBING FIXTURE LOCATIONS AND TYPES WITH ARCHITECTURAL PLANS, DETAILS AND ELEVATIONS. ANY DISCREPANCIES BETWEEN THE PLUMBING DRAWINGS AND THE ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION, PRIOR TO INSTALLATION.
- 22. THE PLUMBING CONTRACTOR SHALL CUT ANY OPENING IN FLOORS, WALLS, ROOFS AND CEILINGS REQUIRED FOR INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC.. THE CONTRACTOR SHALL ALSO PATCH AND REPAIR ANY EXISTING FLOORS, WALLS, AND CEILING OPENINGS LEFT BY THE REMOVAL OR INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC.. PATCHING SHALL MATCH THE EXISTING ADJACENT SUBSTRATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISHES WHERE PATCHING MENTIONED ABOVE IS PROVIDED.

PLUMBING FIXTURE SCHEDULE							
		PIPE SIZE					
MARK	DESCRIPTION	DCW	DHW	W	V	RIM HEIGHT	COMMENTS
FD-1				3"	2"		
FPWH-1	Non Freeze Wall Hydrant	3/4"					With Self Draining Vacuum Breaker
LAV-1	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	2' - 7"	
WC-1		0"		0"	0"	0' - 0"	

ELECTRIC WATER HEATER SCHEDULE							
MARK	INPUT	VOLTAGE	PHASE	AMPS	TANK VOLUME	UNIT WEIGHT	COMMENTS
EWH-1	4.5 W	208 V	1		20 gal		MOUNDED ON WALL ABOVE SINK

		ROOF	DRAIN SCHEDUI	LE
MARK	OUTLET SIZE	DOME SIZE	DOME TYPE	COMMENTS
RD-1	3"	1' - 3"	CAST IRON	
RD-1	3"	1' - 3"	CAST IRON	
RD-1	3"	1' - 3"	CAST IRON	
RD-1	3"	1' - 3"	CAST IRON	
RD-1	3"	1' - 3"	CAST IRON	
RD-1	3"	1' - 3"	CAST IRON	

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REVISIONS

01	MM-DD-YR	NAME	DESCRIPTION OF CHANGES

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CRABTREE ROHRBAUGH & ASSO 401 EAST WINDING HILL ROAD

A01 EAST WINDING HILL ROAD

CHARLOTTESVILLE

CHARLOTTESVILLE

434-975-7262 FAX

RENOVATIONS T CAPE FEAR RIVER MEMORI NORTH CAROLINA DEPT. OF TR





DECEMBER 20, 2017

PLOT SCALE: 12" = 1'-0"

SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULES -PLUMBING

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PROJECT



