PLU	IMB. ABBREVIATIONS
ABBREV.	DEFINITION
A AAV	COMPRESSED AIR AUTOMATIC AIR VENT
AB AHJ	ABSORPTION AUTHORITY HAVING JURISDICTION
AMP	AMPERE
BFP BHP	BACKFLOW PREVENTER BRAKE HORSEPOWER
BTU BTUH	BRITISH THERMAL UNIT BRITISH THERMAL UNITS PER HOUR
BWV C	BACKWATER VALVE COMMON
CAP	CAPACITY
CO CI	CAST IRON CLEAN OUT
COND CONV	CONDENSATE CONVECTOR
CTF CUH	COOLING TOWER FAN CABINET UNIT HEATER
CV	CONTROL VALVE
CW DEG	DOMESTIC COLD WATER DEGREES
DDC DT	DIRECT DIGITAL CONTROL DRAIN TILE
DTC DWH	DRAIN TILE CONNECTION DOMESTIC WALL HYDRANT
(E)	EXISTING
EMS E.SH	ENERGY MANAGEMENT SYSTEM EMERGENCY SHOWER
F FC	DEGREES FAHRENHEIT FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD FLA	FLOOR DRAIN FULL LOAD AMPS
FOS FPM	FUEL OIL SUPPLY FEET PER MINUTE
FS FV	FLOOR SINK FACE VELOCITY
G	NATURAL GAS
GPG GPH	GRAINS PER GALLON GALLONS PER HOUR
GPM HB	GALLONS PER MINUTE HOSE BIBB
HP HTG	HORSEPOWER HEATING
HW	DOMESTIC HOT WATER
HWR HYD	DOMESTIC HOT WATER RETURN HYDRANT
HZ ID	HERTZ INSIDE DIAMETER
IE IN	INVERT ELEVATION INCHES
INL	INLET
IW KW	INDIRECT WASTE KILOWATT
LAV LBS/HR	LAVATORY POUNDS PER HOUR
LRA MH	LOCKED ROTOR AMPS MANHOLE
MV	MANUAL AIR VENT
N NC	NITROGEN NOISE CRITERIA
NPCW OD	NON POTABLE COLD WATER OUTSIDE DIAMETER
OS&Y PA	OUTSIDE SCREW AND YOKE PIPE ANCHOR
PC	PUMPED CONDENSATE
PD PG	PRESSURE DROP (FEET OF WATER) PIPE GUIDE
PRV PSIA	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH - ABSOLUTE
PSI PW	POUNDS PER SQUARE INCH - GAUGE POOL WASTE
RC	RAIN CONDUCTOR
RL RPM	REFRIGERANT LIQUID REVOLUTIONS PER MINUTE
RPZ RD	REDUCED PRESSURE ZONE ROOF DRAIN
RS SAN	REFRIGERANT SUCTION SANITARY WASTE
SCW	SOFTENED COLD WATER
SRD SS	SECONDARY ROOF DRAIN SANITARY STACK
ST STK	STORM WATER STACK
TC UG	TEMPERATURE CONTROL UNDER GROUND
٧	VENT
VAC VE	VACUUM VOLUME EXTRACTOR
VI VS	VIBRATION ISOLATOR VENT STACK
VTR W	VENT THRU ROOF WASTE
wco	WALL CLEAN OUT
WG WHA-X	WATER GAUGE WATER HAMMER ARRESTER - PDI SIZE X
WH	WATER HEATER

YARD CLEAN OUT

YCO

	PLUMB. SYMBOLS		_
OL	DESCRIPTION	SYMBO	OL
	THERMOMETER	├A	—
4	UNION	CD	
`	STRAINER	⊢—CSW—	
ľ	BELOW FLOOR SAN CONNECTION (SCHEMATIC)	⊢—CW—	+
<u></u>	ABOVE FLOOR SAN CONNECTION (SCHEMATIC)	——HW——	_ ⊣
	EXPANSION JOINT	⊢—-GW-—-	-
—X——	PIPE ANCHOR	⊢——G——	-
	PIPE GUIDE	⊢——PW——	-
(AQ)	AQUASTAT	LP	-
	SOLENOID VALVE	⊢—SAN—	,
(<u>BFP</u> }	BACKFLOW PREVENTER (TYPE BY AHJ)	├ ──-V-──-	
<u> </u>	CIRCUIT SETTER (BALANCING VALVE)	⊢—ST—	•
<u> </u>	BALL VALVE	⊢—SST—	•
	BUTTERFLY VALVE		-
	CHECK VALVE		_ >
	CIRCULATING PUMP	+==+=)
FS	FLOW SWITCH	H 181	+
	GATE VALVE	 	+
<u></u>	GLOBE VALVE	 	-
	OUTSIDE SCREW AND YOKE GATE VALVE (OS&Y)		3
_₽	PRESSURE REGULATOR / REDUCING VALVE	ь	,
	PRESSURE RELIEF VALVE	→ FC0	
<u>_</u>	PLUG VALVE	⊢—— · со	
–[RPZ]––––	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	⊢——· WCC)
ĹŊ,	TEMPERATURE AND PRESSURE RELIEF VALVE	⊢—Т⊾ НВ	
	TRIPLE DUTY VALVE	⊢—+□ WHA	
	VACUUM RELIEF VALVE		

	PLUMBING FIXTURE SCHEDULE							
				CONNEC				
TAG	DESCRIPTION	CW	HW	WASTE	INDIRECT WASTE	VENT	NOTES	
		INCHES	INCHES	INCHES	INCHES	INCHES	1	
DWH-1	DOMESTIC WALL HYDRANT	3/4"	0"	0"	0"	0"	EXTERIOR SECURITY FACEPLATE	
EWC-1	ELECTRIC WATER COOLER	1/2"	0"	1 1/2"	0"	1 1/2"	ADA DUAL HEIGHT	
FD-1	FLOOR DRAIN	0"	0"	2"	0"	1 1/2"	INCLUDE TRAP GUARD	
FS-1	FLOOR SINK	0"	0"	4"	0"	2"	-	
L-1	ADA LAVATORY	1/2"	1/2"	2"	0"	1 1/2"	THERMOSTATIC MIXING VALVE	
MS-1	MOP SINK	1/2"	1/2"	2"	0"	1 1/2"	_	
SK-1	SINGLE COMPARTMENT SINK	1/2"	1/2"	1 1/2"	0"	1 1/2"	THERMOSTATIC MIXING VALVE	
SK-2	TWO COMPARTMENT SINK	1/2"	1/2"	1 1/2"	0"	1 1/2"	THERMOSTATIC MIXING VALVE	
WC-1	ADA FLOOR MOUNTED WATER CLOSET	1/2"	0"	3"	0"	1 1/2"	MANUAL FLUSH TANK TYPE	
WS-1	WATER SUPPLY CONNECTION BOX	1/2"	0"	0"	0"	0"	INCLUDE WHA-A ARRESTOR	

PLUMBING PUMP SCHEDULE								
TAG	DESCRIPTION	FLOW RATE GPM	HEAD FEET	ELECT HP	RICAL DATA VOLTAGE	MANUFACTURER	MODEL #	NOTES
P-1	SUMP PUMP	20	15	.25	120/1/60	LITTLE GIANT	505700	1
P-2	120° F SYSTEM CIRCULATOR	2	15	.05	120/1/60	ARMSTRONG	ASTRO-230-SS	_

NOTES: 1. SUMP BASIN AND COVER.

	PL	UMBIN	IG E	XPA	NSION	TANK	SCHEDUL	.E	
	TANK CA		TEMPERATURE		PRESSURE		BASIS OF DE		
TAG	ACCEPTANCE	TOTAL	MIN	MAX	OPERATING	MAXIMUM	271010 01 22		NOTES
	GALLONS	GALLONS	DEG F	DEG F	PSIG	PSIG	MANUFACTURER	MODEL #	
ET-1	1	2	0	140	55	150	AMTROL	ST-5C	_

	EL	ECT	RIC V	C WATER HEATER SCHEDULE						
	HYDRONIC	1			TRICAL	BASIS OF DESIGN WE		WEIGHT		
TAG	CAPACITY	EWT	LWT	LOAD	V/PH/HZ				NOTES	
	GALLONS	DEG F	DEG F	KW	V /FH/H Z	MANUFACTURER	MODEL #	LBS		
WH-1	50	50.0	140.0	4.5	208/1/60	AO SMITH	ENT-50	605	_	

	NATUR	AL GAS LOAD SUMMARY						
UNIT ID	COUNT	INPUT	UNIT LOAD (MBH)	REMARKS				
RTU-1	1	120	120	HEATING AND COOLING				
RTU-2	1	50	50	HEATING AND COOLING				
RTU-3	1	120	120	HEATING AND COOLING				
_	0	0	0	_				
		BUILDING TOTAL	290	@ 8" W.C. DOWNSTREAM OF METER. LONGEST RUN 230'-0"				

SYMBOL	DESCRIPTION
1	CONSTRUCTION KEY NOTE
1	DEMOLITION KEY NOTE
EF 1	EQUIPMENT DESIGNATION
	LINE OF DEVICES OR EQUIPMENT BEYOND OR BELOW THE FLOOR
	LINE OF EXISTING DEVICES OR EQUIPMENT
	LINE OF NEW OR MODIFIED DEVICES OR EQU
544445	EXISTING SYSTEM COMPONENT TO BE REMOV

PLUMBING GENERAL NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE
- AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.

 REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS OF AND EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE),
- SINKS, ETC.

 CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- PIPING SHALL NOT BE LOCATED OVER ELECTRICAL
 EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF
 ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH
 ELECTRICAL EQUIPMENT CLEARANCE.
- PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT

 RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING
- CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS
- 6 REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL
- HOT AND COLD WATER PIPING RUN-OUTS TO MULTIPLE FIXTURES

 7 SHALL BE 3/4" UNLESS NOTED OTHERWISE. REFER TO PLUMBING
- FIXTURE SCHEDULE FOR FIXTURE CONNECTION SIZES.

 PLUMBING VENT PIPING TERMINATION THROUGH THE ROOF TO BE LOCATED 10' FROM ANY FRESH AIR INTAKE LOCATION, TO BE A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET OR SIDE OF ITEMS PENETRATING ROOF, AND TO BE A MINIMUM OF
- 12" ABOVE FINISHED ROOF MEMBRANE.

 9 PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEAN OUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- 10 MINIMUM UNDERGROUND WASTE PIPE SIZE SHALL BE 3", EXCEPT
- DETAIL CALL OUTS ARE GIVEN AS A REFERENCING AID. DETAILS

 11 SHALL BE APPLIED BOTH WHERE CALLED OUT AND AS
- 11 SHALL BE APPLIED BOTH WHERE CALLED OUT AND AS APPLICABLE.

 12 FINISHED FLOOR ELEVATION ASSUMED AT 100'-O". REFER TO CIVIL
- 12 FINISHED FLOOR ELEVATION ASSUMED AT 100'-0". REFER TO CIVI FOR FINISHED FLOOR ELEVATION WITH RESPECT TO SEA LEVEL.

 VERIFY EXACT LOCATIONS OF ALL FLOOR DRAINS AND FLOOR SINKS WITH KITCHEN EQUIPMENT SUPPLIER PLANS BEFORE
- INSTALLATION. THOSE ITEMS NOT SHOWN ON KITCHEN EQUIPMENT PLANS SHALL BE LOCATED PER PLUMBING PLANS.

 DO NOT ROUTE PIPING THROUGH STRUCTURAL MEMBERS REQUIRING
- FIELD OPENINGS LARGER THAN 1", WITHOUT WRITTEN CONSENT
 FROM ENGINEER. STRUCTURAL MEMBERS TO INCLUDE BUT ARE NOT LIMITED TO BEAMS, COLUMNS, JOIST, & STRUCTURAL WALL ELEMENTS CALLED OUT ON STRUCTURAL DRAWINGS.
- THESE PLUMBING GENERAL NOTES APPLY TO ALL SHEETS THAT FOLLOW IN THE PLUMBING SHEET SET.

DEMO GENERAL NOTES

- ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.

 THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE
- B GENERAL INTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.

 ALL PLUMBING ITEMS TO BE REMOVED SHALL BE REMOVED
- C COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPING.

 ALL DEMOLITION OF THE EXISTING PLUMBING SYSTEMS,
- INCLUDING BUT NOT LIMITED TO PIPING, VALVES, CONTROLS, SUPPORTS, HANGERS, AND EQUIPMENT SHALL BE UNDER SCOPE OF THE PLUMBING SECTION OF THE SPECIFICATIONS.
- E THE OWNER SHALL HAVE FIRST RITE OF REFUSAL ON ALL EQUIPMENT BEING REMOVED.

King Street Church Office Building Renovation

Job No:

Drawn: Checked:

Revisions:

No: Date:

No: Date:

No: Date:

No: Date:

No: Date:

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Drawing Title:
PLUMBING
SYMBOLS AND
SCHEDULES

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