

PLUMBING SYMBOL LEGEND

NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED ON THE DRAWINGS. (N/A = NOT APPLICABLE)

SYMBOL	ABBREVIATION	DESCRIPTION
---	SAN	SANITARY SOIL OR WASTE LINE
---GT---	GT	GREASE TRAP WASTE LINE
---AW---	AW	ACID WASTE LINE
---FM---	FM	FORCED MAIN WASTE LINE
---	V	SANITARY VENT LINE
---GT---	GT	GREASE TRAP VENT LINE
---AV---	AV	ACID VENT LINE
---ST---	ST	STORM WASTE LINE
-----	TP	TRAP PRIMER LINE
-----	CW	DOMESTIC COLD WATER LINE
-----	HW	DOMESTIC HOT WATER LINE
-----	HWR	DOMESTIC HOT WATER RETURN LINE
---G---	G	GAS LINE
---F---	F	FIRE WATER LINE
---A---	A	COMPRESSED AIR LINE
---GV---	GV	GATE VALVE
---GLV---	GLV	GLOBE VALVE
---BV---	BV	BALL VALVE
---PV---	PV	GAS VALVE OR PLUG VALVE
---CV---	CV	CHECK VALVE
---VTR---	VTR	VENT THROUGH ROOF
---DN---	DN	PIPE DROP
---DN---	DN	PIPE DROP
---UP---	UP	PIPE RISE

ELECTRIC WATER HEATER SCHEDULE

NOTES:
 1. REFER TO THE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF ALL ELECTRIC WATER HEATERS.
 2. REFER TO THE HOT WATER CIRCULATING PUMP SCHEDULE FOR ALL HOT WATER CIRCULATION PUMPS.
 3. ALL WATER HEATERS SHALL BE PROVIDED WITH A THERMAL EXPANSION TANK. REFER TO THE THERMAL EXPANSION TANK SCHEDULE.

EW# NO.	MANUFACTURER	MODEL NO.	TANK VOLUME	ELEMENT WATTAGE	NO. OF ELEMENTS	ELEMENT OPERATION	APPARENT POWER	RECOVERY RATE	TEMP. RISE	OUTLET TEMP.	GENERAL DESCRIPTION	LOCATION	COMMENTS
1	A. O. Smith	DEN-40	40 gal	4500 W	2	Non-Simultaneous	4500 VA	18.6 GPH	100 °F	120 °F	Floor Mounted Electric Water Heater	CUSTODIAN #204	Charge Tank to Incoming Water System Pressure

HOT WATER CIRCULATING PUMP SCHEDULE

MARK	MANUFACTURER	MODEL NO.	DESIGN FLOW RATE	PUMP HEAD (FT)	RATED SPEED	MOTOR POWER	GENERAL DESCRIPTION	LOCATION	ASSOCIATED WATER HEATER	COMMENTS
1	Taco	003-B4	0 GPM	0	3250 RPM	0.025 hp	In-line Cartridge Circulating Pump	CUSTODIAN #204	E.W.H.-1	RE: DETAIL 6/P501

THERMAL EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL NO.	TANK VOLUME	ACCEPTANCE VOLUME	GENERAL DESCRIPTION	PRE-CHARGE COMMENTS	LOCATION	ASSOCIATED WATER HEATER	COMMENTS
1	Flexcon	PH5	2.1 gal	0.9 gal	Diaphragm type Thermal Expansion Tank	Charge Tank to Incoming Water System Pressure	CUSTODIAN #204	E.W.H.-1	RE: DETAIL 6/P501

ELEVATOR SUMP PUMP SCHEDULE

MARK	MANUFACTURER	MODEL NO.	MOTOR HP	RPM	MAX. HEAD	MAX. FLOW AT MIN. HEAD	GENERAL DESCRIPTION	MOTOR TYPE	IMPELLER TYPE	INSULATION	COMMENTS
SP-1	Zoeller	940-0014	1/2 HP	3450	56" - 0"	100 GPM @ 5'	Oil Guard Pump Switch and Panel	Submersible	Non-clogging vortex	Class B	RE: DETAIL 6/P501

GAS PRESSURE REGULATOR SCHEDULE

MARK	REGULATOR	CFH	GAS TYPE	ORIFICE SIZE	VALVE SIZE	INLET/OUTLET SIZE	VENT SIZE	SPRING COLOR	MAX. INLET PRESSURE	MIN. INLET PRESSURE	OUTLET PRESSURE
GPR-1	SENSUS MODEL NO. 496	80	NATURAL	3/8"	1/2"	3/4"	1"	GREEN	5 psig	2 psig	7" WC

GENERAL PLUMBING PLAN NOTES

ALL INTERIOR DOMESTIC WATER LINES, SANITARY VENT LINES, AND NATURAL GAS LINES SHOWN SHALL BE ABOVE THE CEILING UNLESS NOTED OTHERWISE. EXCEPTION: PIPING IN CHASES.

ALL INTERIOR DOMESTIC WATER VALVES SHOWN SHALL BE IN THE HORIZONTAL WATER LINES ABOVE THE CEILING UNLESS NOTED OTHERWISE.

ALL FLOOR DRAINS AND HUB DRAINS SHALL BE PROVIDED WITH DEEP SEAL P-TRAPS. PROVIDE INDIRECT WASTE CONNECTIONS TO ALL HUB DRAINS.

REFER TO THE CIVIL DRAWINGS FOR SITE UTILITIES, SITE CONTOURS, AND SITE STORM DRAINAGE.

COORDINATE LOCATIONS FOR ALL MECHANICAL ROOM FLOOR DRAINS WITH HVAC EQUIPMENT AND HVAC HOUSEKEEPING PADS. FLOOR DRAINS SHALL NOT BE LOCATED UNDER HVAC EQUIPMENT OR HVAC HOUSEKEEPING PADS.

COORDINATE LOCATIONS OF ALL CLEANOUTS (BOTH WALL AND FLOOR TYPES) WITH ALL TRADES. ALL CLEANOUTS SHALL BE LOCATED IN AREAS WHERE THEY SHALL BE ACCESSIBLE.

ALL PIPE HANGER LOCATIONS SHALL BE COORDINATED WITH CEILING CONTRACTOR PRIOR TO INSTALLATION OF PIPING.

ALL SANITARY VENT, NATURAL GAS, AND DOMESTIC WATER PIPING ABOVE THE CEILING SHALL BE ROUTED IN THE RETURN AIR PLENUM. ALL PIPING SHALL BE SUPPORTED BY DLCC CLIPS WHERE A DOUBLE CEILING IS INSTALLED - RE: PIPE SUPPORT DETAILS. IN LOCATIONS WHERE A SHAFT WALL CEILING IS INSTALLED, THE PIPING SHALL BE SUPPORTED FROM THE UNISTRUT WHICH SUPPORTS THE SHAFT WALL CEILING. DO NOT PENETRATE OR CONNECT ANY ITEM TO THE SHAFT WALL CEILING. FIRE PROTECTION PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE ONLY EXCEPT WHEN A SHAFT WALL CEILING IS INSTALLED.

WHERE PIPING AND/OR PIPE HANGER RODS PENETRATE FIRE RATED PARTITIONS OR CEILINGS, THE ENTIRE PENETRATION SHALL BE SEALED WITH A U.L. LISTED SEALANT THAT MAINTAINS THE FIRE RATING OF THE PARTITION OR CEILING.

REFER TO THE ARCHITECTURAL SPECIFICATIONS FOR FLASHINGS OF PIPE PROJECTIONS THROUGH THE ROOF.

ANY PIPE THAT PASSES UNDER A FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH OR A PIPE SLEEVE. THE SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING UNDER THE FOOTING. SLEEVE SHALL BE INSTALLED PRIOR TO POURING OF FOOTING. BACKFILL AROUND SLEEVE TO BE 95% COMPACTION.

NO ABOVEGROUND PVC PIPING SHALL BE LOCATED IN RETURN AIR PLENUMS UNLESS IT IS COMPLETELY WRAPPED IN A HIGH TEMPERATURE INSULATION BLANKET ENCAPSULATED WITH AN ALUMINUM FOIL SCRIM. USE AS A FIREPROOF FLEXIBLE ENCLOSURE FOR PLASTIC PIPE IN FIRE-RATED PLENUMS. WRAP SHALL EXTEND TO 5'-0" OUTSIDE OF RETURN AIR PLENUM ON PIPING. TAPE WRAP JOINTS WITH ALUMINUM FOIL. PROVIDE A MINIMUM OF 1" OF OVERLAP ON WRAP AT JOINTS. INSTALL PER MANUFACTURER'S PUBLISHED COMMUNICATIONS. REQUIRED ONLY WHEN PVC PIPE IS ALLOWED ABOVE GROUND INSIDE THE BUILDING.

MINIMUM PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	MINIMUM ROUGH-IN SIZE		
		CW	HW	Waste
WC-1	WATER CLOSET - ADULT STANDARD AND HANDICAPPED	1"	--	4"
UR-1	URINAL - ADULT HANDICAPPED	3/4"	--	2"
LAV-1	WALL HUNG LAVATORY - ADULT STANDARD AND HANDICAPPED	1/2"	1/2"	1-1/4"
MS-1	CORNER FLOOR MOP	1/2"	1/2"	1 1/4"
SCS-1	SINGLE COMPARTMENT SINK	1/2"	1/2"	1 1/2"
DCS-1	DOUBLE COMPARTMENT SINK WITH HOT DISPOSER	1/2"	1/2"	1 1/2"
EDF-1	ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER - ADULT STANDARD	1/2"	--	1 1/4"
EDF-2	ELECTRIC DRINKING FOUNTAIN - ADULT HANDICAPPED	1/2"	--	1 1/4"
HB-1	HOSE BIBB	3/4"	--	--
WH-1	INTERIOR WALL HYDRANT	3/4"	--	--
WH-2	EXTERIOR WALL HYDRANT	3/4"	--	--
FD-1	FLOOR DRAIN - GENERAL LOCATION	--	--	3"
FD-2	FLOOR DRAIN - EQUIPMENT ROOM	--	--	3"
FCO-1	FLOOR CLEANOUT - INTERIOR	--	--	4"
FCO-2	FLOOR CLEANOUT - EXTERIOR	--	--	4"
WCO-1	WALL CLEANOUT	--	--	4"

SHOCK ABSORBER SCHEDULE

MARK	FIXTURE UNITS	MODEL #	MANUFACTURER
SA-1	1 - 11	1250-A	WILKINS
SA-2	12 - 32	1250-B	WILKINS
SA-3	33 - 60	1250-C	WILKINS
SA-4	61 - 113	1250-D	WILKINS
SA-5	114 - 201	1250-E	WILKINS
SA-6	202 - 330	1250-F	WILKINS

NOTES:
 1. NOT ALL SHOCK ABSORBERS INDICATED ABOVE ARE NECESSARILY USED ON THE DRAWINGS.
 2. REFER TO THE SPECIFICATIONS SECTION 221319 FOR ADDITIONAL REQUIREMENTS AND FOR THE LIST OF ACCEPTABLE MANUFACTURERS FOR USE.
 3. WHEN SHOCK ABSORBERS ARE NOT USED, THE CONTRACTOR SHALL INSTALL VERTICAL AIR CHAMBERS 18" HIGH AND ONE PIPE SIZE LARGER THAN THE FIXTURE SUPPLY PIPING AT EACH FIXTURE SUPPLY.
 4. RAISE ALL SHOCK ABSORBERS TO ABOVE CEILING LEVEL FOR EASE OF MAINTENANCE.

SA&E PROJECT NUMBER: 01-615-057
 BID PACKAGE / PHASING: BP-1
 ISSUED FOR CONSTRUCTION: 10/15/2019

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 architects & engineers

REVISIONS
 R # Doc # Date

ADD ALTERNATE #1
 BOARD OF EDUCATION OFFICE FOR:
HEARD COUNTY SCHOOLS
 4647 PEA RIDGE ROAD, FRANKLIN, GA 30217
 HEARD COUNTY SCHOOL SYSTEM
 FRANKLIN, GEORGIA

PLUMBING SCHEDULES

DRAWING NUMBER
P601

STATE OF GEORGIA REGISTERED PROFESSIONAL ENGINEER
 MICHAEL C. WALDBLUM
 LICENSE NO. 10000