GAS FIRED WATER HEATER SCHEDULE

SYM.	LOCATION	STORAGE (GALLONS)	GAS BURNER DATA			FLUE SIZE	SELECTION BASED ON		REMARKS
			INLET PRESS. (IN. W.C.)	BTU/HR INPUT	GPH RECOVERY @ 100° RISE		MANUFACTURER	MODEL	
WH1	MECHANICAL 045	100	8	199,000	235	4"	A.O. SMITH	BTH-199	1,2,3,4,5,6
WH2	WASH STORAGE 202	100	8	199,000	235	4"	A.O. SMITH	BTH-199	1,2,3,4,5,6

REMARKS:

1. EQUIVALENT MANUFACTURERS: LOCHINVAR, BRADFORD, RHEEM
2. ELECTRICAL REQUIREMENTS: 120V, 15 AMP BREAKER
3. WATER HEATER SHALL MEET OR EXCEED THE REQUIREMENTS OF ASHRAE 90.1.
4. PROVIDE HEATER WITH ACID NEUTRALIZATION KIT FOR CONDENSATE.
5. INSTALL DIRECT VENT PIPING WITH CONCENTRIC VENT ROOF OUTLET PER MANUFACTURERS DIRECTIONS.
6. PROVIDE CARBON MONOXIDE DETECTOR IN MECHANICAL AND WASH STORAGE ROOMS ADJACENT TO GAS FIRED WATER HEATERS.
7. SET WATER HEATER(S) AT 120° F (MAX).

EXPANSION TANK SCHEDULE

SYM.	DESCRIPTION	VOLUME (GALLONS)	DIAMETER (INCHES)	HEIGHT (INCHES)	SELECTION BASED ON		REMARKS
					MANUFACTURER	MODEL	
EXT1	BLADDER TYPE EXPANSION TANK	14	15	19	AMTROL	ST-12	1
EXT2	BLADDER TYPE EXPANSION TANK	14	15	19	AMTROL	ST-12	1

REMARKS:

1. EQUIVALENT MANUFACTURERS: BELL & GOSSETT, WESSELS COMPANY.

PUMP SCHEDULE

SYM	DESCRIPTION	TYPE	CAPACITY		ELECTRICAL DATA				SELECTION BASED ON		REMARKS
			GPM	HEAD (FT)	HP	VOLTS	PH	HZ	MANUFACTURER	MODEL	
RCP1	HW RECIRC PUMP	IN-LINE	8	10	1/8	115	1	60	BELL & GOSSETT	NBF-22	1,2,3

REMARKS:

1. EQUIVALENT MANUFACTURERS: BELL & GOSSETT, TACO
2. PUMP SHALL BE ALL BRONZE CONSTRUCTION.
3. EQUIVALENT MANUFACTURERS: BELL & GOSSETT, GRUNDFOS, TACO

WATER HEATER SCHEDULE - ELECTRIC (TANK-LESS)

SYM.	DESCRIPTION	DESIGN FLOW (GPM)	TEMPERATURE RISE AT DESIGN FLOW	ELECTRICAL DATA				BASIS OF DESIGN		REMARKS
				KW	VOLTS	PHASE	HERTZ	MANUFACTURER	MODEL	
WH3	ELECTRIC WATER HEATER	0.50	61°F	4.5	277	1	60	STEIBEL-ELTRON	DHC 4-3	1,2

REMARKS:

1. EQUIVALENT MANUFACTURERS: CHRONOMITE, EEMAX
2. WATER HEATER SHALL MEET OR EXCEED THE REQUIREMENTS OF ASHRAE 90.1.
3. SET WATER HEATER TO DELIVER HOT WATER AT A TEMPERATURE OF 110° F

PLUMBING SPECIALTIES SCHEDULE

SYM.	DESCRIPTION	CONNECTIONS (IN.)				SPECIFICATION	REMARKS
		W	V	CW	HW		
HB1	WALL HYDRANT EXTERIOR RECESSED WITH COVER NON-FREEZE AUTOMATIC DRAINING VACUUM BREAKER	–	–	¾"	–	EQUIPMENT: WOODFORD B65 OPERATOR: LOOSE KEY FINISH: CHROME (STANDARD)	MOUNT 18" AFF.
HB2	HOSE BIB INTERIOR EXPOSED VACUUM BREAKER	–	–	½	–	EQUIPMENT: WOODFORD 24 OPERATOR: WHEEL HANDLE FINISH: CHROME (STANDARD)	MOUNT 24" AFF.
HB3	ROOFTOP HYDRANT NON-FREEZE AUTOMATIC DRAINING VACUUM BREAKER	–	–	1"	–	EQUIPMENT: MAPA MPH-24FP: 24/9 FINISH: STAINLESS STEEL	
HB4	WALL HYDRANT EXTERIOR RECESSED WITH COVER NON-FREEZE AUTOMATIC DRAINING VACUUM BREAKER	–	–	¾"	¾"	EQUIPMENT: WOODFORD HCB67 OPERATOR: LOOSE KEY FINISH: BRASS (STANDARD)	MOUNT 30" AFF.
FD1	FLOOR DRAIN CAST IRON BODY ADJUSTABLE TOP	SEE DWG	–	–	–	DRAIN: JAY R. SMITH 2005 SERIES STRAINER: 6" DIAMETER, TYPE A, NICKEL BRONZE P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	SEE NOTE 1 BELOW.
FD2	FLOOR DRAIN CAST IRON BODY ADJUSTABLE TOP	SEE DWG	–	–	–	DRAIN: JAY R. SMITH 2005 SERIES STRAINER: 7" DIA. TYPE -F37, NICKEL BRONZE P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	SEE NOTE 1 BELOW.
FD3	SHOWER DRAIN TRENCH DRAIN STYLE WITH STAINLESS STEEL COVER	SEE DWG	–	–	–	DRAIN: JAY R. SMITH 9667 STRAINER: PERFORATED GRATE -SPG (STANDARD) FINISH: POLISHED NICKEL BRONZE	COORDINATE LENGTH WITH SHOWER BASE LENGTH. COORDINATE WITH ARCHITECTURAL DRAWINGS
FD4	FLOOR DRAIN CAST IRON BODY SEDIMENT BUCKET CAST IRON COVER	SEE DWG	–	–	–	DRAIN: JAY R. SMITH 2110 STRAINER: 8" DIAMETER, SLOTTED, CAST IRON P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	PROVIDE TRAP PRIMER CONNECTION. SEE NOTE 2 AND 3 BELOW.
GD1	GARAGE DRAIN (APP. BAY) DUCO CAST IRON BODY FLASHING COLLAR CAST IRON GRATE	SEE DWG	–	–	–	DRAIN: JAY R. SMITH 2120 STRAINER: CAST IRON TRACTOR GRATE FINISH: STANDARD OPTIONS: SEDIMENT BUCKET -B	SEE NOTE 1 BELOW.
FS1	FLOOR SINK 12" x 12" x 6" STAINLESS STEEL BODY AND GRATE	SEE DWG	–	–	–	DRAIN: JAY R. SMITH 3002 STRAINER: 12"x12" STAINLESS STEEL (TYPE 304) P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	HALF-GRATE CONFIGURATION
HR1	AIR HOSE REEL ALL STEEL POWDER COATED BODY MOUNTING BRACKET 100 FT RETRACTABLE HOSE	–	–	–	–	HOSE REEL: REELCRAFT D84035 SERIES HOSE OUTLET: ¾" REEL INLET:1" FINISH: POWDER COATED COLOR: RED	
FCO	FLOOR CLEANOUT CAST IRON BODY ADJUSTABLE TOP	SEE DWG	–	–	–	CLEANOUT: JAY R. SMITH 4020 OUTLET: NO-HUB PLUG: ABS, IRON OR BRONZE WITH GASKET SEAL COVER: ROUND, NICKEL BRONZE	
WCO	WALL CLEANOUT CAST IRON CLEANOUT TEE COUNTERSUNK PLUG STAINLESS STEEL ACCESS COVER	SEE DWG	–	–	–	CLEANOUT: JAY R. SMITH 4530Y OUTLET: NO-HUB, BOTH ENDS PLUG: IRON OR BRONZE PLUG WITH GASKET SEAL	
YCO	YARD CLEANOUT ADJUSTABLE, CAST IRON BODY, COATED CAST IRON TOP	SEE DWG	–	–	–	CLEANOUT: JAY R. SMITH 4050 OUTLET: NO-HUB PLUG: ABS, GASKET SEAL COVER: CAST IRON, HEAVY DUTY	SET IN CONCRETE PAD 18"W x 18"L x 6"THICK
CO	END OF LINE PLUG CLEANOUT CAST IRON TAPERED FERRULE CAST BRONZE THREADED PLUB	–	–	–	–	CLEANOUT: JAY R. SMITH 4422 (LESS COVER)	
AAV1	AIR ADMITTANCE VALVE		2"			EQUIPMENT: STUDOR INC. MINI-VENT	
IMB	ICE MAKER BOX (REFRIGERATOR ICEMAKER)	–	–	½"	–	FIXTURE: GUY GRAY BIM875 FINISH: EPOXY	
IMB2	ICE MAKER BOX (COUNTERTOP ICEMAKER)	2"	–	½"	–	FIXTURE: GUY GRAY T200TPPVCHA FINISH: WHITE POWDER COATED	COLD WATER CONNECTION ONLY
WMB	WASHING MACHINE BOX	2"	1½"	½"	½"	EQUIPMENT: GUY GRAY B-200 MATERIAL: 16 GAUGE STEEL WITH EPOXY FINISH	
UCB	UTILITY CONNECTION BOX	2"	1½"	–	–	EQUIPMENT: GUY GRAY T200TPPLV FINISH: WHITE POWDER COATED	SEE NOTE 3 BELOW.
SA-	SHOCK ARRESTOR SIZES A THRU F SEE FLOOR PLAN FOR SIZE	–	–	SEE DWG	–	EQUIPMENT: SIOUX CHIEF 650 SERIES SEE SHOCK ARRESTOR TABLE THIS SHEET	PROVIDE ACCESS DOOR FOR CONCEALED INSTALLATIONS
CS-	CIRCUIT SETTER, SIZES ½" THRU 2" SEE FLOOR PLAN FOR SIZE			SEE DWG		EQUIPMENT: CIRCUIT SOLVER CS SERIES 110 DEGREE MODEL, NSF 61 CERTIFIED	PROVIDE ACCESS DOOR FOR CONCEALED INSTALLATIONS
WDT	WASHER DRAIN TROUGH POLYPROPYLENE LINT FILTER (REMOVABLE) L x W x D	2"	1½"	½"	½"	EQUIPMENT: H-M MANUFACTURING DRAIN TROUGH BODY MATERIAL: ¼" POLYPROPYLENE LID MATERIAL: ⅜" POLYPROPYLENE LINT FILTER: ¼" PVC WITH ⅜"DIA HOLES	

NOTES:

1. PROVIDE HOSE BIB (HB2) AND BARRIER TYPE TRAP INSERT FOR TRAP SEAL PROTECTION IN LOCATIONS IDENTIFIED ON PLANS.

APPROVED MANUFACTURERS:

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY MATCHES THE SPECIFIED PRODUCT. PROVIDE PRODUCTS MADE BY ANY OF THE MANUFACTURER'S LISTED. NO PRIVATE LABELED MATERIALS WILL BE ACCEPTED AS EQUALS TO PRODUCTS SPECIFIED HEREIN. ALL FIXTURES OF THE SAME TYPE AND/OR MATERIAL SHALL BE PROVIDED BY A SINGLE MANUFACTURER.

INLINE FLOOR DRAIN TRAP SEALER	PROVENT, JAY R. SMITH, SURESEAL, MIFAB
DRAINS, CARRIERS, CLEANOUTS	ZURN, J.R. SMITH, WADE, JOSAM, WATTS
TRAP PRIMERS, SHOCK ARRESTORS	PPP, SIOUX CHIEF, ZURN, WATTS
DRAIN AND SUPPLY BOXES	GUY GRAY, SIOUX CHIEF, DATEY
WALL HYDRANTS/HOSE BIBBS	WOODFORD, ZURN, WATTS
BACKFLOW PREVENTERS, PRV'S, ETC	WATTS, ZURN-WILKINS, APOLLO

PLUMBING FIXTURE SCHEDULE

SYM.	DESCRIPTION	CONNECTIONS (IN.)				SPECIFICATION	REMARKS
		W	V	CW	HW		
P1	WATER CLOSET, HET ELONGATED BOWL FLOOR MOUNTED FLUSH VALVE, 1.28 GPF SENSOR OPERATED	4"	2"	1¼"	–	FIXTURE: AMERICAN STD. 3451.001 "MADERA" SEAT: CHURCH 9500CT FLUSH VALVE: SLOAN ROYAL 8111-1.28 MATERIAL: VITREOUS CHINA COLOR: WHITE	SEAT HEIGHT 15" AFF
P1A	WATER CLOSET, HET ADA COMPLIANT ELONGATED BOWL FLOOR MOUNTED FLUSH VALVE, 1.28 GPF SENSOR OPERATED	4"	2"	1¼"	–	FIXTURE: AMERICAN STD. 3461.001 "MADERA" SEAT: CHURCH 9500CT FLUSH VALVE: SLOAN ROYAL 8111-1.28 MATERIAL: VITREOUS CHINA COLOR: WHITE	SEAT HEIGHT 17"-19" AFF
P2	URINAL, HEU WALL MOUNTED FLUSH VALVE, 0.125 GPF SENSOR OPERATED	2"	1½"	¾"	–	FIXTURE: AMERICAN STD. 6590.001 "WASHBROOK" FLUSH VALVE: SLOAN ROYAL 8186-0.125 COLOR: WHITE MATERIAL: VITREOUS CHINA CARRIER: JAY R. SMITH 0615 SERIES	FIXTURE LIP HEIGHT 24" AFF
P2A	URINAL, HEU ADA COMPLIANT WALL MOUNTED FLUSH VALVE, 0.125 GPF SENSOR OPERATED	2"	1½"	¾"	–	FIXTURE: AMERICAN STD. 6590.001 "WASHBROOK" FLUSH VALVE: SLOAN ROYAL 8186-0.125 COLOR: WHITE MATERIAL: VITREOUS CHINA CARRIER: JAY R. SMITH 0615 SERIES	FIXTURE LIP HEIGHT 17" AFF
P3A	LAVATORY ~~ADA COMPLIANT~~ ~~17½" x 14½" OVAL~~ ~~UNDERCOUNTER MOUNTED~~ 0.5 GPM FAUCET	2"	1½"	½"	½"	FIXTURE: AMERICAN STD. 0495.300 "OVALYN" ~~GRID DRAIN: MCGUIRE 155A GRID STRAINER~~ FAUCET: SLOAN OPTIMA EAF-150 P-TRAP: MCGUIRE 8902 1¼" x 1½" STOPS: MCGUIRE 175-LK	SEE NOTE 1 BELOW.
P3B	LAVATORY ADA COMPLIANT WALL MOUNTED 20" x 18" GRID DRAIN 0.5 GPM FAUCET	2"	1½"	½"	½"	FIXTURE: AMERICAN STD. 0355.012 "LUCERNE" DRAIN: MCGUIRE 155A GRID STRAINER FAUCET: SLOAN OPTIMA EAF-150 P-TRAP: MCGUIRE 8902 1¼" x 1½" STOPS: MCGUIRE 175 MATERIAL: VITREOUS CHINA, WHITE CARRIER: JAY R. SMITH 0700-0710 SERIES	SEE NOTE 1 BELOW. SEE ARCHITECTURAL DRAWINGS FOR LAVATORY MOUNTING HEIGHT
P4A	ELECTRIC WATER COOLER ADA COMPLIANT (BI-LEVEL) BOTTLE FILLING STATION WALL MOUNTED STAINLESS STEEL FINISH FLEXIBLE BUBBLERS	2"	1½"	½"	–	FIXTURE: ELKAY LMABF7L8WSLK P-TRAP: MCGUIRE 8902 1¼" x 1½" STOP: MCGUIRE H175 CANE APRON: ELKAY 98313C CARRIER: FLOOR MOUNTED CHAIR CARRIER	LOWER BUBBLER HEIGHT 34" AFF
P5A	STAINLESS-STEEL SINK KITCHEN/BREAKROOM SINK 33"L x 22"W x 10"D, DOUBLE BOWL 18 GAUGE STAINLESS STEEL SELF RIMMING, COUNTER MOUNTED FAUCET WITH 1.5 GPM AERATOR	2"	1½"	½"	½"	FIXTURE: ELKAY DLR332210 FAUCET: MOEN 8707 (W/SPRAY) STRAINER: MCGUIRE 151 (BASKET) P-TRAP: MCGUIRE 8891 2 (1½"x1½") STOPS: MCGUIRE LF175LK	PROVIDE WATER AND DRAIN CONNECTIONS FOR ADJACENT DISHWASHER. DISHWASHER PROVIDED BY OTHERS. FINAL CONNECTION BY PLUMBING CONTRACTOR
P5B	STAINLESS-STEEL SINK ADA COMPLIANT 22"L x 19"W x 6"D, SINGLE BOWL 18 GAUGE STAINLESS STEEL COUNTER MOUNTED, SELF-RIMMING FAUCET WITH 1.5 GPM AERATOR	2"	1½"	½"	½"	FIXTURE: ELKAY LRAD2219 FAUCET: MOEN 8707 (W/SPRAY) STRAINER: MCGUIRE 151 (BASKET) P-TRAP: MCGUIRE 8891 2 (1½"x1½") STOPS: MCGUIRE LF175LK	SEE NOTE 1 BELOW.
P6	SHOWER PRESSURE BALANCED VALVE. 1.5 GPM WALL SHOWERHEAD	2"	1½"	½"	½"	BASE: TILE BASE BY G.C. SHOWER VALVE: MOEN 8342 SHOWER HEAD: MOEN 52716 DRAIN: 2"FD3 FINISH: CHROME	REFER TO ARCHITECTURAL DRAWINGS FOR SHOWER HEAD AND SHOWER VALVE MOUNTING HEIGHTS.
P6A	SHOWER ADA COMPLIANT PRESSURE BALANCED VALVE. 1.5 GPM WALL SHOWERHEAD HAND HELD SHOWER WITH HOSE AND SLIDE BAR	2"	1½"	½"	½"	BASE: TILE BASE BY G.C. SHOWER VALVE: MOEN 8342 SHOWER HEAD: MOEN 52716 DRAIN: 2"FD3 FINISH: CHROME	REFER TO ARCHITECTURAL DRAWINGS FOR SHOWER HEAD, SHOWER VALVE AND HAND SHOWER MOUNTING HEIGHTS.
P7	MOP SINK TERRAZZO BASIN 24"L x 24"W x 12"D FLOOR MOUNTED SERVICE SINK FAUCET WITH VACUUM BREAKER, PAIL HOOK AND WALL BRACKET	3"	1½"	½"	½"	MOP BASIN: FIAT TSB100 FAUCET: MOEN 8230 (ROUGH CHROME) DRAIN: 3" STAINLESS STEEL SLOTTED P-TRAP: 3" DEEP SEAL HOSE AND BRACKET: FIAT 832-AA MOP HANGER:FIAT 889-CC	
P8	STAINLESS STEEL UTILITY SINK DECON ROOM (2) 24" x 24" x 14" BOWLS (2) 24" DRAINBOARDS 2 FAUCET HOLES ON BACKSPLASH	1½"	1½"	½"	½"	FIXTURE: ELKAY SS8248LR2 DRAIN: ELKAY 18 FAUCET: ELKAY LK940ATI2L2H P-TRAP: MCGUIRE 8912 1½" x 1½" STOPS: MCGUIRE 175	304 STAINLESS STEEL
P10	EMERGENCY SAFETY STATION (SHOWER AND EYE/FACE WASH) 10" DIA. ABS SHOWER HEAD 11" DIA. S.S. EYE/FACE WASH BOWL THERMOSTATIC MIXING VALVE (TMV1)	–	–	1¼"	1¼"	SAFETY STATION: GUARDIAN G1950HFC MIXING VALVE (TMV1): GUARDIAN G3800LF DRAIN: 4"FD1 FINISH: POWDER COATED COLOR: ORANGE	
P11	BACK BOARD WASH BASE BY GC SERVICE SINK FAUCET WITH HOSE AND HAND SPRAYER	3"	1½"	½"	½"	BASE: BY GC FAUCET: T&S BRASS B-2117 SERVICE FAUCET WITH VACUUM BREAKER, 8 FT HOSE, AND HAND SPRAYER WITH EXTENDED WAND DRAIN: 3"FD1 P-TRAP: 3" DEEP SEAL	

NOTES:

1. PROVIDE PRE-MANUFACTURED INSULATION KIT FOR EXPOSED TRIM UNDER SINK.

APPROVED MANUFACTURERS:

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VITREOUS CHINA FIXTURES	AMERICAN STANDARD, KOHLER, ZURN, TOTO, SLOAN
TOILET SEATS	CHURCH, OLSONITE, BEMIS, CENTOCO
FLUSH VALVES	SLOAN, ZURN
MANUAL FAUCETS	MOEN COMMERCIAL, DELTA COMMERCIAL, ZURN
SENSOR OPERATED FAUCETS	SLOAN, MOEN COMMERCIAL, DELTA COMMERCIAL, ZURN
STAINLESS STEEL SINKS	ELKAY, JUST, ADVANCE-TABCO
ELECTRIC WATER COOLERS/DRINKING FOUNTAINS	ELKAY, OASIS, HALSEY TAYLOR
UTILITY SINKS (MOP BASINS, LAUNDRY SINKS)	FIAT, FLORESTONE, STERN WILLIAMS
SHOWER INSERTS	COMFORT DESIGNS, LIBERTY LINE, STERLING
SHOWER VALVES, TRIM, SHOWER HEADS	MOEN COMMERICAL, DELTA COMMERCIAL, SYMMONS, POWERS
THERMOSTATIC MIXING VALVES	LEONARD, POWERS, SYMMONS, LAWLER
SUPPLY STOPS, P-TRAPS	McGUIRE, BRASSCRAFT, KEENEY
ADA INSULATING KITS FOR EXPOSED TRIM	TRUEBRO, PLUMBEREX, KEENEY
EMERGENCY FIXTURES	GUARDIAN, HAWS, BRADLEY

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CLINTON, NORTH CAROLINA

CONSTRUCTION DOCUMENTS

PLUMBING SCHEDULES

DATE	12.04.2020
PROJECT NO	20003

REVISIONS

NUM.	DATE	DESCRIPTION:
1	12-17-2020	REVISION #1
2	01-15-2021	REV #3 / ADD #2

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NORTH CAROLINA PROFESSIONAL 043866 ENGINEER DANIEL A. REVILLA 12/04/2020

SEAL

SHEET NUMBER P002