

WATER HEATER SCHEDULE										
SYM.	DESCRIPTION	STORAGE (GALLONS)	RECOVERY	ELECTRICAL DATA			SELECTION BASED ON		REMARKS	
WH1	ELECTRIC WATER HEATER	30	20 GPM @ 80°F RISE	KW	VOLTS	PHASE	HERTZ	MANUFACTURER	MODEL	
				1.5	120	1	60	A.O. SMITH	DEL-30	1,2

REMARKS:
1. EQUIVALENT MANUFACTURERS: LOCHINVAR, BRADFORD WHITE.
2. WATER HEATER SHALL MEET OR EXCEED THE REQUIREMENTS OF ASHRAE 90.1.

EXPANSION TANK SCHEDULE										
SYM.	DESCRIPTION	VOLUME (GALLONS)	DIAMETER (INCHES)	HEIGHT (INCHES)	SELECTION BASED ON			MANUFACTURER	MODEL	REMARKS
ET1	BLADDER TYPE EXPANSION TANK	2.0	8.0	14.0	AMTROL			ST-5		1

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

ELECTRIC WATER HEATER SCHEDULE										
SYM.	DESCRIPTION	STORAGE (GALLONS)	TEMPERATURE RISE	RECOVERY	ELECTRICAL DATA			SELECTION BASED ON		REMARKS
WH2	ELECTRIC WATER HEATER	-	57°F @ 1.0 GPM	8.3	208	1	60	EEMAX	EX8202T ML	1,2,3
WH3	ELECTRIC WATER HEATER	-	57°F @ 1.0 GPM	8.3	208	1	60	EEMAX	EX8202T ML	1,2,3

REMARKS:
1. EQUIVALENT MANUFACTURERS: BOSCH, CHROMONITE
2. TEMPERATURE OUTPUT: 110°F
3. MIN. TURN ON FLOW: 0.3 GPM

GAS LOAD SUMMARY		CONSUMPTION (CFH)
LOAD		
(E)RTU-L1: EXISTING ROOF TOP UNIT		200
(E)RTU-L2: EXISTING ROOF TOP UNIT		113
(E)RTU-L3: EXISTING ROOF TOP UNIT		75
(E)RTU-L4: EXISTING ROOF TOP UNIT		113
(E)RTU-L5: EXISTING ROOF TOP UNIT		113
(E)RTU-L6: EXISTING ROOF TOP UNIT		75
(E)RTU-L7: EXISTING ROOF TOP UNIT		113
(E)RTU-L8: EXISTING ROOF TOP UNIT		113
(E)RTU-L9: EXISTING ROOF TOP UNIT		113
(E)RTU-L10: EXISTING ROOF TOP UNIT		150
(E)RTU-L11: EXISTING ROOF TOP UNIT		75
(E)RTU-L12: EXISTING ROOF TOP UNIT		113
(E)RTU-L13: EXISTING ROOF TOP UNIT		150
(E)RTU-L14: EXISTING ROOF TOP UNIT		150
(E)RTU-L15: EXISTING ROOF TOP UNIT		113
(E)RTU-L16: EXISTING ROOF TOP UNIT		113
(E)RTU-L17: EXISTING ROOF TOP UNIT		113
(E)RTU-L18: EXISTING ROOF TOP UNIT		150
(E)RTU-L19: EXISTING ROOF TOP UNIT		113
(E)RTU-L20: EXISTING ROOF TOP UNIT		113
(E)RTU-L21: EXISTING ROOF TOP UNIT		75
(E)RTU-L22: EXISTING ROOF TOP UNIT		75
(E)RTU-L23: EXISTING ROOF TOP UNIT		113
(E)RTU-L24: EXISTING ROOF TOP UNIT		113
(E)LAB: EXISTING SCIENCE LAB WITH 11 DUAL BUNSEN BURNERS		220
EXISTING TOTAL		3,064
RTU-L25: NEW ROOF TOP UNIT		130
RTU-L26: NEW ROOF TOP UNIT		150
RTU-L27: NEW ROOF TOP UNIT		120
ADDED SUBTOTAL		400
NEW TOTAL		3,464

NOTES:
FARTHEST POINT OF DELIVERY FROM GAS METER TO MOST REMOTE FIXTURE = 3550 FT.
DELIVERY PRESSURE AT GAS METER IS 5 PSI
FUEL GAS CODE TABLE FOR ABOVE GRADE 5 PSI PIPING: IFGC 2012 - TABLE 402.4(5) SCHEDULE 40 METALLIC PIPE, 5 PSI INLET PRESSURE, 3.5 PSI PRESSURE DROP.
FUEL GAS CODE TABLE FOR ABOVE GRADE LOW PRESSURE PIPING: IFGC 2012 - TABLE 402.4(2) SCHEDULE 40 METALLIC PIPE, 0.5 PSI INLET PRESSURE, 0.5" W.C. PRESSURE DROP.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE									
SYM.	DESCRIPTION	CONNECTIONS (IN.)				SPECIFICATION	REMARKS		
		W	V	CW	HW				
E1	WATER CLOSET, HET, ELONGATED BOWL, WALL HUNG, BATTERY POWERED SENSOR OPERATED FLUSH VALVE, 1.28 GPF	4"	2"	1 1/2"	-	FIXTURE: KOHLER K-4325 "KINGSTON" SEAT: CHURCH & DWIGHT FLUSH VALVE: SLOAN B111-1.28 MATERIAL: VITREOUS CHINA COLOR: WHITE CARRIER: ZURN Z-1203 SERIES	SEAT HEIGHT 15" AFF		
E1A	WATER CLOSET, HET, ADA COMPLIANT, ELONGATED BOWL, WALL HUNG, BATTERY POWERED SENSOR OPERATED FLUSH VALVE, 1.28 GPF	4"	2"	1 1/2"	-	FIXTURE: KOHLER K-4325 "KINGSTON" SEAT: CHURCH & DWIGHT FLUSH VALVE: SLOAN B111-1.28 MATERIAL: VITREOUS CHINA COLOR: WHITE CARRIER: ZURN Z-1203 SERIES	PROVIDE LEVER ON WIDE SIDE OF STALL SEAT HEIGHT 17"-19" AFF		
E2A	URINAL, HET, ADA COMPLIANT, WALL MOUNTED, BATTERY POWERED SENSOR OPERATED FLUSH VALVE, 0.125 GPF	2"	1 1/2"	3/4"	-	FIXTURE: KOHLER K-4991-ET COLOR: WHITE MATERIAL: VITREOUS CHINA FLUSH VALVE: SLOAN B188-0.125 P-TRAP: ZURN Z-8701 (1/4"x1/4", 17 GA.) SUPPLY/STOP: ZURN 8806-CR CARRIER: ZURN Z-1223 SERIES, CONCEALED	FIXTURE LIP HEIGHT 17" AFF		
E3	LAVATORY, ADA COMPLIANT, WASH BASIN, 3-USER UNIT, NATURAL QUARTZ SURFACE, DIRT DRAIN, THERMOSTATIC MIXING VALVE, 0.5 GPM SENSOR FAUCET, CHROME P-TRAP, SENSOR SOAP DISPENSER, BATTERY-POWERED	2"	1 1/2"	3/4"	3/4"	FIXTURE: BRADLEY CORP LYR03 SERIES FAUCET: R-003 INFRARED, BATTERY-OPERATED P-TRAP: ZURN Z-8701 (1/4"x1/4", 17 GA.) SUPPLY/STOP: ZURN 8806-CR CARRIER: ZURN Z-1223 SERIES, CONCEALED	SEE NOTE 1 BELOW		
E4A	WATER COOLER, A.D.A. COMPLIANT HIGH/LOW DOUBLE BOWL, NATURAL QUARTZ SURFACE, FILTERED, WITH BOTTLE FILLER STATION, CARRIER MOUNTED	2"	1 1/2"	3/4"	3/4"	FIXTURE: ELKAY LZSTL8WSP ELKS: 370 WATT, 120V/1/2 P-TRAP: ZURN Z-8701 (1/4"x1/4", 17 GA.) SUPPLY/STOP: ZURN 8806-CR CARRIER: ZURN Z-1223 SERIES, CONCEALED	SEE PLANS FOR MOUNTING HEIGHTS		
E5A	SINK, A.D.A. COMPLIANT 23 1/2" X 18 1/2" X 5 1/2", SINGLE BOWL, 18 GAUGE STAINLESS STEEL	2"	1 1/2"	3/4"	3/4"	FIXTURE: ELKAY ELH0211555555 FAUCET: DELTA 101F-W BASKET STRAINER: ZURN Z-8740 P-TRAP: ZURN 8703 (1/4"x1/4", 17 GA.) SUPPLIES/STOPS: ZURN 8806-CR CARRIER: ZURN Z-1223 SERIES, CONCEALED	SEE NOTE 4 BELOW		
E5B	SINK, A.D.A. COMPLIANT 30 1/2" X 18 1/2" X 5 1/2", DOUBLE BOWL, 18 GAUGE STAINLESS STEEL, SELF RIMMING, COUNTER MOUNTED MANUAL FAUCET, 1.8 GPM	2"	1 1/2"	3/4"	3/4"	FIXTURE: ELKAY ELH0211555555 FAUCET: DELTA 101F-W BASKET STRAINER: ZURN Z-8740 P-TRAP: ZURN 8703 (1/4"x1/4", 17 GA.) SUPPLIES/STOPS: ZURN 8806-CR CARRIER: ZURN Z-1223 SERIES, CONCEALED	SEE NOTE 1 BELOW		
MB1	ICE MAKER BOX, 12"x10"x3.5" 20 GAUGE STEEL, WITH WHITE POWDER COATING	-	-	-	-	EQUIPMENT: GUY GRAY MARIAS 20" X 12" X 3.5" 20" WATER HAMMER ARRESTOR SUPPLY: EXHIBLE COPPER	DOUBLE CHECK VALVE, WILKINS SERIES 700XL		
MBR	INDIRECT WASTE BOX RECESSED WHITE ABS BOX & FRAME WITH INTERIOR SHOCK ARRESTOR	-	-	-	-	EQUIPMENT: SIOUX CHEF 696-3 "OX BOX" FINISH: SIOUX CHEF 696-CF, 1/2" AIR GAP			
IP1	TRAP/STRAINER PROVIDE DISTRIBUTION WHEN SERVING MORE THAN ONE FIXTURE	-	-	-	-	EQUIPMENT: SIOUX CHEF 650 SERIES SEE SHOCK ARRESTOR TABLE, THIS SHEET	PROVIDE ACCESS DOOR FOR CONCEALED INSTALLATIONS		
SA-C	SHOCK ARRESTOR 3/4" A THRU 1" SEE SHOCK ARRESTOR TABLE, THIS SHEET	-	-	-	-	EQUIPMENT: SIOUX CHEF 650 SERIES SEE SHOCK ARRESTOR TABLE, THIS SHEET	PROVIDE ACCESS DOOR FOR CONCEALED INSTALLATIONS		
HB1	WALL HYD. EXTERIOR, EXPOSED 1/2" FREEZE PROTECTIVE DRAINING, VACUUM BREAKER	-	-	-	-	EQUIPMENT: CIRCUIT SOLVER CS SERIES 110 DEGREE MODEL, NSF 61 CERTIFIED	PROVIDE ACCESS DOOR FOR CONCEALED INSTALLATIONS		
HB2	WALL HYD. INTERIOR, EXPOSED, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER	-	-	-	-	EQUIPMENT: WOODFORD 24 WHEEL HANDLE	MOUNT 18" AFF.		
HB3	ROOF TOP HYDRANT CAST IRON BODY, AUTOMATIC DRAINING, VACUUM BREAKER	-	-	-	-	EQUIPMENT: MAPA MFH-24F/24/9 FINISH: STAINLESS STEEL	MOUNT 24" AFF.		
EQ0	FLOOR CLEANOUT ADJUSTABLE, CAST IRON BODY, ADJUSTABLE	SEE DWG	-	-	-	CLEANOUT: ZURN ZN-1400	GAS / WATER TIGHT ABS PLUG		
WC0	WALL CLEANOUT STAINLESS STEEL WALL PLATE	SEE DWG	-	-	-	CLEANOUT: ZURN ZS-1468	GAS / WATER TIGHT ABS PLUG		
Y00	YARD CLEANOUT ADJUSTABLE, CAST IRON BODY, COATED CAST IRON TOP	SEE DWG	-	-	-	CLEANOUT: ZURN ZN-1474 IN AN 18" X 18" X 8" CONCRETE PAD.	GAS / WATER TIGHT ABS PLUG		
C0	END OF LINE PLUG CLEANOUT CAST BRONZE	-	-	-	-	CLEANOUT: ZURN Z-1470	GAS / WATER TIGHT PLUG		
FD1	FLOOR DRAIN CAST IRON BODY, ADJUSTABLE	SEE DWG	-	-	-	DRAIN: ZURN ZN-415 STRAINER: 8" DIAMETER, TYPE B, NICKEL BRONZE P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	SEE NOTE 3 BELOW		
FD2	FLOOR DRAIN, MECHANICAL ROOM CAST IRON BODY AND TOP SEDIMENT BUCKET	SEE DWG	-	-	-	DRAIN: ZURN Z-556-Y STRAINER: 8" DIAMETER, SLOTTED, CAST IRON P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	SEE NOTE 2 BELOW		
RD1	PRIMARY ROOF DRAIN CAST IRON BODY, SUMP RECEIVER GRAVEL STOP AND ALUMINUM DOME	SEE DWG	-	-	-	DRAIN: ZURN ZA-100-DP-EB WITH DECK PLATE AND ADJUSTABLE EXTENSION	SEE PLANS FOR SIZE		
RD2	SECONDARY ROOF DRAIN CAST IRON BODY, SUMP RECEIVER GRAVEL STOP AND ALUMINUM DOME	SEE DWG	-	-	-	DRAIN: ZURN ZA-100-DP-EB-W4 WITH DECK PLATE, ADJUSTABLE EXTENSION, AND 4" HIGH WATER DAM	SET WATER DAM ELEVATION 3" ABOVE THE ADJACENT FINISHED ROOF ELEVATION.		
DSN1	SECONDARY DRAIN NOZZLE NICKEL BRONZE BODY	SEE DWG	-	-	-	NOZZLE: ZURN ZANB199	MOUNT 18" ABOVE FINISHED GRADE.		

APPROVED MANUFACTURERS:
THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY MATCHES THE SPECIFIED PRODUCT. PROVIDE PRODUCTS MADE BY ANY OF THE MANUFACTURERS 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.

VITREOUS CHINA FIXTURES: KOHLER, AMERICAN STANDARD, ZURN, TOTO, SLOAN
CHURCH & DWIGHT, BEMIS, CEROTTO
TOILET SEATS: SLOAN, ZURN, DELANEY
FLUSH VALVES: SLOAN, CHURCH & DWIGHT, ZURN, DELTA COMMERCIAL, WOOD COMMERCIAL
MANUAL FAUCETS: SLOAN, 1&S BRASS, ZURN
SENSOR OPERATED FAUCETS: ELKAY, JUST, ADVANTAGE-TABCO
ELECTRIC WATER COOLERS/DRINKING FOUNTAINS: ELKAY, OASIS, HALSEY TAYLOR
UTILITY SINKS: FIAT, FLORESTONE, STERN WILLIAMS
SHOWER INSERTS: COMFORT DESIGNS, LIBERTY LINE, STERLING
MIXING/SHOWER VALVES: LEONARD, SYMONDS, LAWLER
SUPPLIES, P-TRAPS: MAGUIRE, BRASSCRAFT, KEENEY
ADA KIT FOR EXPOSED TRIM: TRUEBRO, PLUMBEREX, KEENEY
INLINE FLOOR DRAIN TRAP SEALER: SURESEAL, WIFAD, PREVENT
DRAINS, CARRIERS, CLEANOUTS: ZURN, J.R. SMITH, WACO, JISSAM, WATTS
WATER SPECIALTIES: PPP, SIOUX CHEF, ZURN, WATTS
WASTE SPECIALTIES (WASHER BOX): GUY GRAY, SIOUX CHEF, DAIY
WALL HYDRANTS/HOSE BIBBS: WOODFORD, ZURN, WATTS
BACKFLOW PREVENTERS, PRV'S, APOLLO: WATTS, ZURN-WILKINS, APOLLO
EMERGENCY FIXTURES: GUARDIAN, HANS, BRADLEY

SHOCK ARRESTOR TABLE				
DRAWING SYMBOL	FIXTURE UNITS	PDI WH201 STANDARD DESIGNATION	ARRESTOR SIZE	APPROVED MANUFACTURERS
SA-A	1-11	A	1/2"	- SIOUX CHEF - WATTS - PPP INC.
SA-B	12-32	B	3/4"	
SA-C	33-60	C	1"	
SA-D	61-113	D	1 1/2"	REMARKS
SA-E	114-154	E	1 1/2"	INSTALL SHOCK ARRESTORS PER PDI WH201 GUIDELINES
SA-F	155-330	F	2"	

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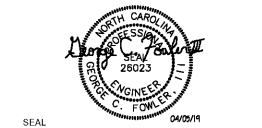
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