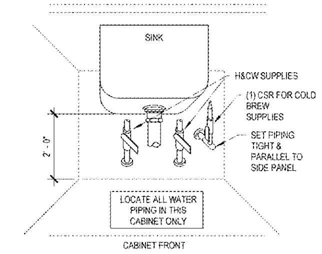
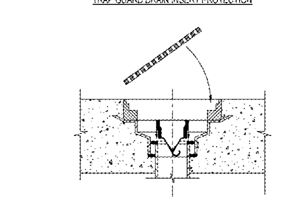


NOTES:
1. REFER TO WATER SERVICE RISER DIAGRAM AND CSR SYSTEM ELEVATION FOR ADDITIONAL INFORMATION.
2. INSTALL T&S BRASS B-2505-WAWA SINGLE HOLE TEMPERATURE DECK MOUNT FAUCET FOR COLD BREW QUARTER TURN 2.2 GPM AERATOR LEVER HANDLE AND 1/2" NPSM MALE INLET. (SUPPLIED BY WAWA INSTALLED BY PLUMBING CONTRACTOR.)

1 / P5 FULL SERVICE BEVERAGE SINK/BREWER MANIFOLD
NOT TO SCALE

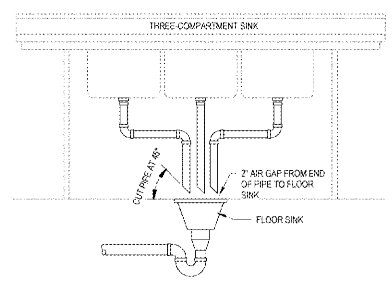
TRAP GUARD DRAIN INSERT PROTECTION



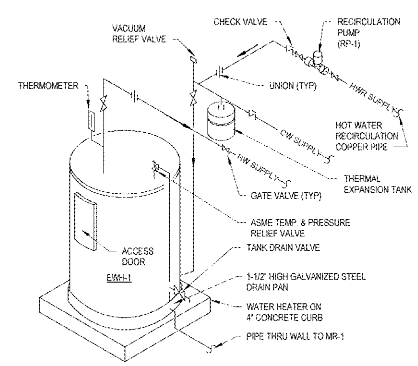
MANUFACTURER = PROVENT SYSTEMS
☐ PART NO. TG3H 3" INSERT FITS INSIDE 3" GASKETED PVC, ABS OR CAST IRON PIPE

IMPORTANT INSTALLATION NOTES:
1. REMOVE THE STRAINER OFF THE TOP OF THE FLOOR DRAIN TAILPIECE
2. MAKE SURE THE INSIDE OF THE TAILPIECE IS CLEAN BEFORE INSERTING THE TG3H TRAP GUARD
3. IT MAY BE NECESSARY TO USE A LUBRICANT ON THE OUTSIDE OF THE BUSHING FOR AN EASIER INSERTION
4. THE TAPPER ON THE TOP OF THE TG3H BUSHING FLANGE SHOULD FIT FLUSH WITH THE TAPPER IN THE TOP OF THE TAILPIECE SO THE TRAP GUARD INSERT IS NOT INSTALLED ABOVE THE TAPPER IN THE DRAIN OPENING.

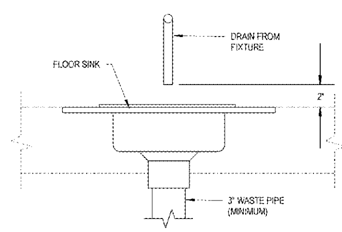
2 / P5 TRAP GUARD DETAIL
NOT TO SCALE



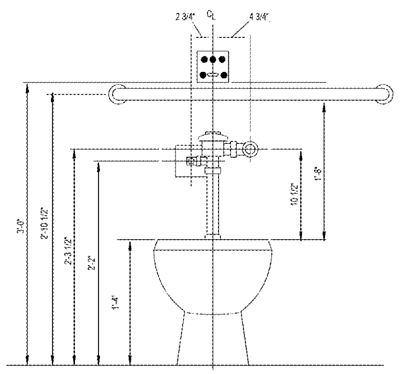
3 / P5 THREE-COMPARTMENT SINK DISCHARGE DETAIL
NOT TO SCALE



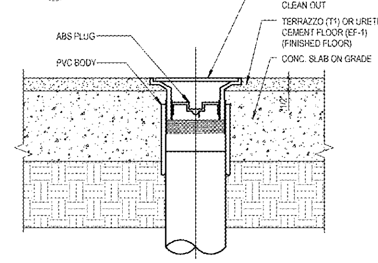
4 / P5 WATER HEATER DETAIL
NOT TO SCALE



5 / P5 FLOOR SINK DETAIL
NOT TO SCALE

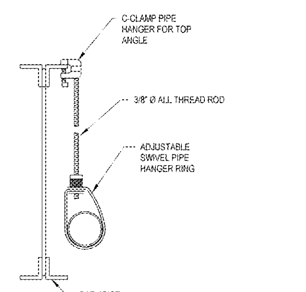


6 / P5 TOILET FLUSH VALVE SENSOR MOUNTING
NOT TO SCALE

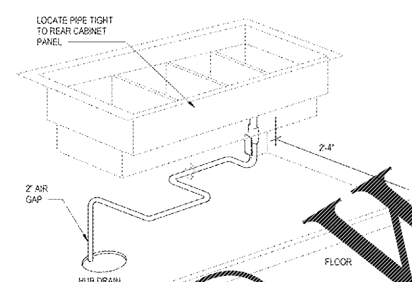


NOTE: ALL ADJUSTMENTS MUST BE MADE PRIOR TO SLAB POUR. ADJUST FCO FLUSH WITH FINISHED FLOOR. GRINDING OR OTHERWISE ALTERING TOP OF FCO IS NOT PERMITTED.

7 / P5 CLEANOUT DETAIL
NOT TO SCALE

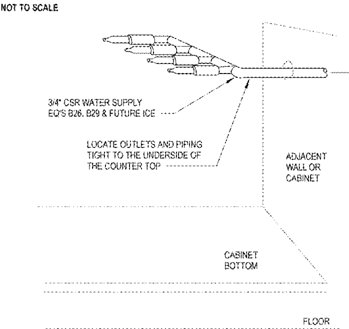


8 / P5 PIPE HANGER DETAIL
NOT TO SCALE



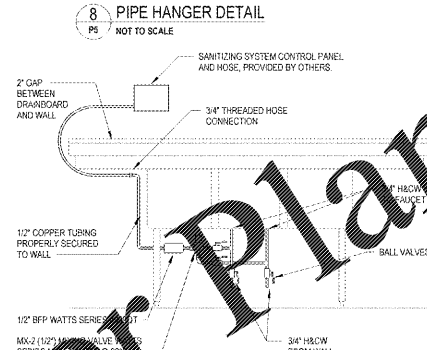
NOTE: PROVIDE UNIONS IN INDIRECT WASTE PIPING TO ALLOW FOR REFRIGERATION EQUIPMENT REMOVAL. PIPE INDIRECT WASTE SEPARATELY FOR EACH UNIT.

9 / P5 CONDIMENT COUNTER DIAGRAM
NOT TO SCALE

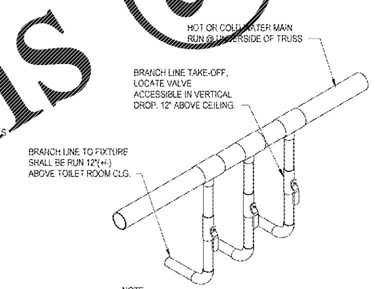


NOTE: REFER TO WATER SERVICE WATER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

10 / P5 COFFEE STEP-UP COUNTER PIPING
NOT TO SCALE

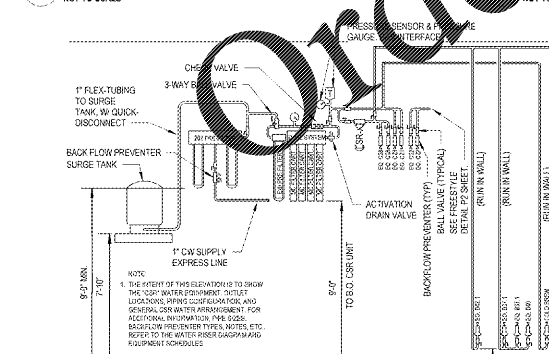


11 / P5 TEMPERED WATER @ SANITIZING SYSTEM
NOT TO SCALE



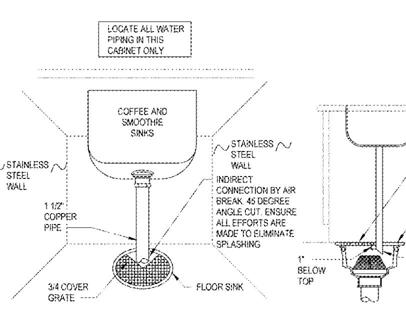
NOTE:
1. LABEL ALL VALVES WITH A PERMANENT TAG.
2. ALL VALVES MUST BE EASILY ACCESSIBLE

12 / P5 TOILET ROOM WATER MANIFOLD DETAIL
NOT TO SCALE

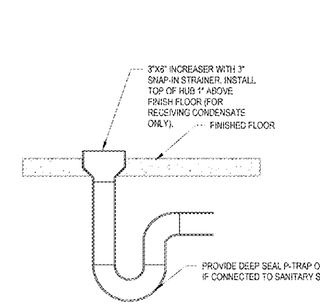


NOTE:
1. THE INTENT OF THIS ELEVATION IS TO SHOW THE "CSR" WATER EQUIPMENT, OUTLET LOCATIONS, PIPING CONFIGURATION, AND GENERAL CSR WATER ARRANGEMENT. FOR ADDITIONAL INFORMATION, PIPE SIZES, BACKFLOW PREVENTER TYPES, NOTES, ETC., REFER TO THE WATER RISER DIAGRAM AND EQUIPMENT SCHEDULES
2. ALL CSR VALVES SHOULD HAVE IDENTIFICATION TAGS.

13 / P5 CSR WATER OUTLET ELEVATION
NOT TO SCALE



14 / P5 COFFEE SINK/BREWER INDIRECT CONNECTION
NOT TO SCALE



15 / P5 HUB DRAIN DETAIL
NOT TO SCALE

BACKFLOW PREVENTER SCHEDULE

SERVICE & APPLICATION	MANUFACTURER	SERIES	MODEL #	SIZE	REMARKS
MAIN WATER SERVICE	WATTS REGULATOR	SERIES 909	MODEL LF909M1QT-S	1½"	WHEN A "RPZ" TYPE IS REQUIRED
MAIN WATER SERVICE	WATTS REGULATOR	SERIES 007	MODEL LF007M2QT-S	1½"	WHEN A DOUBLE CHECK VALVE IS REQUIRED
LAWN IRRIGATION	WATTS REGULATOR	SERIES 909	MODEL LF909M1QT-S	1"	WHEN VALVE IS LOCATED INSIDE THE BUILDING
LAWN IRRIGATION	WATTS REGULATOR	SERIES 800	MODEL LF800M4FR	1"	WHEN VALVE IS LOCATED OUTSIDE OF THE BUILDING
COFFEE & CAPPUCCINO MACHINES	WATTS REGULATOR	SERIES SD-3	MODEL SD3-MN	⅜"	⅜" M-NPT INLET/OUTLET INDIRECTLY ROUTE VENT DISCHARGE LINE TO FLOOR SINK
FREESTYLE, ICEE MACHINE, ICED TEA & ICE MAKER	WATTS REGULATOR	SERIES SD-3	MODEL SD3-MN	⅜"	⅜" M-NPT INLET/OUTLET INDIRECTLY ROUTE VENT DISCHARGE LINE TO HUB DRAIN
"CSR" WATER SUPPLY	WATTS REGULATOR	SERIES 7	MODEL LF7	¾"	LEAD FREE
HOT FOOD TABLE & RETHERMALIZER	WATTS REGULATOR	SERIES 7	MODEL LF7	½"	LEAD FREE
EXTERIOR GROUND HYDRANT	WATTS REGULATOR	SERIES 7	MODEL LF7	¾"	LOCATED INSIDE THE BUILDING
VACUUM RELIEF FITTING (WH-1)	WATTS REGULATOR	SERIES N36	MODEL LFN36-M1	¾"	LEAD FREE
SANITIZING EQUIPMENT @ MR-1	WATTS REGULATOR	SERIES 9D	MODEL 9D-M3	½"	-

PIPING MATERIAL SCHEDULE

SERVICE	SIZE	MATERIAL	SCHEDULE/TYPE	INSULATION		REMARKS
				TYPE	THICKNESS	
COLD WATER	ALL	CPVC	-	ARMAFLEX	1"	-
HOT WATER	ALL	CPVC	-	ARMAFLEX	1"	-
SANITARY	ALL	C.I. OR PVC	NOTE 3	NONE	-	NO HUB
VENT	ALL	C.I. OR PVC	SCH. 40	NONE	-	SEE NOTE 1
ST BELOW GRADE	ALL	C.I. OR PVC	SERVICE WEIGHT	NONE	-	NO HUB
ST ABOVE GRADE	ALL	C.I. OR PVC	SERVICE WEIGHT	FG	1"	NO HUB

NOTES:
1. WASTE AND VENT PIPING IN PLENUM SPACE SHALL BE SERVICE WEIGHT CAST IRON, NO HUB.
2. FIBERGLASS PIPE INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. SEMIRIGID BOARD MATERIAL WITH FACTORY APPLIED ASJ COMPLYING WITH ASTM C 1393, OR WITH PROPERTIES SIMILAR TO ASTM C 612. NOMINAL DENSITY IS 2.5 LB/CU. FT. OR MORE. THERMAL CONDUCTIVITY (K VALUE) AT 100 DEG. F (55 DEG. C) IS 0.29 BTU X IN./H X SQ.FT. X DEG. F (0.042 W/M X K) OR LESS. ALL SERVICE JACKET (ASJ): WHITE, KRAFT-PAPER, FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING; COMPLYING WITH ASTM C 1136, TYPE MANUFACTURER: A. CERTAINTEED CORP., B. JOHNS MANVILLE, C. KNAUF INSULATION, D. OWENS CORNING
3. FOR PVC ONLY SCHEDULE 40 DWV. FOAM CORE PVC NOT ALLOWED.

WATER HAMMER ARRESTOR SCHEDULE

INSTALLED ARRESTOR SHALL BE APPROVED DEVICE BY FLORIDA PLUMBING CODE. ALL SUPPLY PIPING SHALL HAVE ARRESTOR THE SAME SIZE AS CONNECTION SIZE UP TO 1" I.E. PROVIDE P.D.I. SIZE "C" FOR 1" OR LARGER WATER SUPPLY TO FIXTURES, P.D.I. SIZE "B" FOR 3/4" SUPPLY AND P.D.I. SIZE "A" FOR 1/2" SUPPLY.

* P.D.I. SIZE	CONNECTION SIZE
A (1-11 F.U.)	1/2"
B (12-32 F.U.)	3/4"
C (33-60 F.U.)	[illegible]

P.D.I. = PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201

SYMBOLS AND ABBREVIATIONS

DESCRIPTION	ABBR.	SYMBOL
SANITARY PIPE ABOVE GRADE	SAN	
SANITARY PIPE BELOW GRADE	SAN	
GREASE PIPE BELOW GRADE	GR	
VENT PIPE	V	
COLD WATER PIPE	CW	
HOT WATER PIPE	HW	
HOT WATER RETURN PIPE	HWR	
CSR WATER PIPING	CSR	—CSR—
TEMPERED WATER PIPING	TW	—TW—
POWER WASH WATER PIPING	PW	—PW—
STORM ABOVE GRADE	ST	
STORM BELOW GRADE	ST	
STORM OVERFLOW	STO	
ROOF DRAIN	RD	
FLOOR CLEANOUT	CO	
EXTERIOR CLEANOUT	ECO	
WALL CLEANOUT	WCO	
HOSE BIBB	HB	
VENT THRU ROOF (EXTEND 36" ABV FINISHED ROOF)	VTR	
DIRECTION OF FLOW		
SHUT OFF VALVE		
CAP		
TEE UP		
TEE DOWN		
ELBOW UP		
ELBOW DOWN		
REVISION REFERENCE		1
TYPICAL	TYP	

*SOME SYMBOLS SHOWN MAY NOT PERTAIN TO THIS PROJECT

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND GOVERNING AUTHORITIES. I.E.: FLORIDA BUILDING CODE 2017.
2. ALL SANITARY PIPING 2-1/2" OR LESS SHALL HAVE A 1/4" PER FOOT SLOPE. ALL SANITARY PIPING 3" OR LARGER SHALL HAVE A 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. ALL STORM WATER PIPING 2-1/2" OR LESS SHALL HAVE A 1/4" PER FOOT MINIMUM HORIZONTAL SLOPE. ALL STORM WATER PIPING 3" OR LARGER SHALL HAVE A 1/8" PER FOOT MINIMUM HORIZONTAL SLOPE UNLESS OTHERWISE INDICATED.
3. VALVES AND FITTINGS SHALL BE OF SAME SIZE OF LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
4. INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. ACCEPTABLE MANUFACTURERS: JOSAM, WATTS AND SIOUX CHIEF. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
6. ALL WATER SUPPLY AND SANITARY LINES SHALL RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR FIXTURES.
8. CHANGES IN THE DIRECTION OF SANITARY AND STORM DRAINAGE PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT. I.E.: USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, USE OF SHORT RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION.
9. CONTRACTOR SHALL GIVE 24 HOURS NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
10. ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
11. WHERE SANITARY SEWER LINES CROSS UNDERGROUND WATER SUPPLY LINES THE INSTALLATION SHALL COMPLY WITH THE FLORIDA BUILDING CODE 2014 PLUMBING, ARTICLE 603.2.CONSTRUCTED OF DUCTILE IRON PIPE (10' EACH SIDE OF WATER MAIN) OR THE WATER LINES SHOULD BE MODIFIED TO PROVIDE 8" MINIMUM CLEARANCE.
12. ALL FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER VALVE AND FITTINGS UNLESS NOTED OTHERWISE.
13. THE PLUMBING CONTRACTOR MAY BE REQUIRED TO DROP PIPE OUTSIDE OF BUILDING TO REQUIRED DEPTH TO PROVIDE CONNECTION TO AREA DEVELOPMENT UTILITY STUB. ALL DROPS IN DEPTH SHALL BE MADE WITH THE USE OF 45° FITTINGS.
14. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. EXPOSED PIPING SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
15. SLEEVE AND FIRE STOP ALL PENETRATIONS (IF ANY) OF RATED WALLS, FLOORS, CEILINGS, ETC., IN ACCORDANCE WITH APPLICABLE UL STANDARDS AND LOCAL CODES TO MAINTAIN RATINGS. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR RATED WALLS, CEILINGS AND FLOOR INFORMATION.
16. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL. THE WALL INSULATION SHALL BE PLACED ON THE EXTERIOR SIDE OF THE PIPE.
17. SEE RISER DIAGRAMS FOR BRANCH PIPING DETAILS AND SIZES NOT SHOWN ON PLANS.
18. COLD AND HOT WATER PIPING SHALL BE FLOWGUARD GOLD CTS CPVC TYPE AND SHALL MEET ASTM D 2846 AND ASTM D 17[illegible]. DISINFECT WATER PIPING AFTER PRESSURE TEST WITH CHLORINE SOLUTION 50 MG/L FOR 24 HOURS. FLUSH LINES CLEAN AFTER COMPLETION.
19. SOIL, WASTE AND VENT PIPING SHALL BE PVC: ASTM D2665 SCHEDULE 40. FITTINGS: PVC DWV JOINTS: ASTM [illegible]. PROVIDE CAST IRON PIPE AND FITTINGS FOR SOIL, WASTE AND VENT PIPING LOCATED IN CEILING PLENUMS.
20. PROVIDE CLEANOUTS AT BASE OF EACH VERTICAL STACK AT EACH CHANGE OF DIRECTION OF HORIZONTAL RUNS AND AT 100 FOOT INTERVALS OF HORIZONTAL RUNS FOR SANITARY AND STORM PIPING.
21. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
22. METERING AND SITE UTILITY CONNECTIONS SHALL BE PROVIDED ON SITE UTILITY DRAWINGS. ALL SERVICES SHOWN ON THIS SET OF PLANS TERMINATE 5'-0" FROM BUILDING, UNLESS SHOWN OTHERWISE ON DRAWINGS. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE UTILITIES.
23. FURNISH AND INSTALL HOSE BIBBS AND/OR WALL HYDRANTS 24" ABOVE FINISHED GRADE/FLOOR AND PROVIDE VACUUM BREAKERS.
24. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ROOF DRAINS, PLUMBING FIXTURE MOUNTING HEIGHTS AND DIMENSIONS.
25. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING SEWERS IN WHICH NEW SEWER LINES ARE TO BE CONNECTED PRIOR TO START OF CONSTRUCTION.
26. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
27. CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
28. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS ON DOMESTIC WATER SUPPLY CONNECTIONS AS REQUIRED BY CODE.
29. ALL BELOW GRADE/SLAB PEX PIPING SHALL BE SLEEVED WITH POLYETHYLENE PLASTIC SLEEVING. EXTEND SLEEVING ABOVE GRADE/SLAB.
30. CONTRACTOR SHALL REFER TO PLUMBING DRAWINGS FOR EXACT LOCATIONS OF FLOOR DRAINS (IF ANY) LOCATED WITHIN TOILET ROOMS.
31. PRESSURE REDUCING VALVES SHALL BE INSTALLED IN BRANCH LINES SERVING FIXTURES AND/OR EQUIPMENT WHEN THE PRESSURE IN THE LINE EXCEEDS 80 P.S.I.
32. COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR. CONDENSATE PIPING SHALL NOT DISCHARGE INTO SANITARY SYSTEM.
33. ROUTE WATER LINES TIGHT TO STRUCTURE. COORDINATE ROUTING TO AVOID CONFLICTS WITH OTHER DISCIPLINES.
34. IF THE INTENT OF THE DRAWINGS AND/OR SPECIFICATIONS IS UNCLEAR OR HAS MORE THAN ONE INTERPRETATION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS. THE ARCHITECT/ENGINEER SHALL MAKE CORRECTIONS AND/OR PROVIDE EXPLANATION IN WRITING.
35. PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THE CONTRACTOR SHALL ACQUAINT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS PRIOR TO SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO CONTRACTORS FAILURE TO FAMILIARIZE HIMSELF WITH THE PLANS.
36. THE CONTRACTOR SHALL BASE HIS PROPOSAL UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND EQUIPMENT SPECIFIED ON THE DRAWINGS. WHERE MORE THAN ONE MANUFACTURER IS SPECIFIED FOR ONE ITEM, ANY ONE OF THE MANUFACTURERS LISTED MAY BE USED IN THIS CONTRACTOR'S PROPOSAL. IF THIS CONTRACTOR WISHES TO USE EQUIPMENT NOT SPECIFIED, HE MUST AT THE TIME OF BIDDING SUBMIT SEPARATELY ON LETTERHEAD STATIONARY OF THE BIDDER, THE EQUIPMENT HE WOULD SUBSTITUTE AND THE COST TO BE ADDED OR TO BE DEDUCTED FROM HIS PROPOSAL.
37. THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERY WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
38. DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.
39. REFER TO PLANS FOR VENT THRU ROOF (VTR) PIPE SIZES AND LOCATIONS. LOCATE VTR A MIN. 10' HORIZONTAL FROM ANY BUILDING OPENING OR FRESH AIR INTAKE. EXTEND VTR 36" ABOVE ROOF SURFACE. IF 10' DISTANCE CANNOT BE ACHIEVED LOCATE VTR 3' ABOVE ADJACENT TOP OF FRESH AIR INTAKE OR BUILDING OPENINGS. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN 6' OF VTR LOCATION. VERIFY FLASHING AND COUNTERFLASHING AND COORDINATE INSTALLATION WITH ROOFING CONTRACTOR.

FIXTURE SPECIFICATIONS

TAG	FIXTURE	MANUFACTURER	MODEL #	SUPPLIED BY:	PIPE SIZE				DESCRIPTION
					CW	HW	SAN	VENT	
[illegible]	AIR ADMITTANCE VALVE	OATEY	39016	PC	-	-	-	-	20 DFU, SURE-VENT AIR ADMITTANCE VALVE WITH 1-½" X 2" PVC SCHEDULE 40 ADAPTER. INSTALL PER MANUFACTURERS REQUIREMENTS.
BP-1	BOOSTER PUMP	GRUNDFOS	CMBE 3-51	HJC	-	-	-	-	PROVIDE WITH WALL MOUNTED CONTROLLER, DIAPHRAGM TANK, PRESSURE SENSORS AND ANY OTHER MANUFACTURER REQUIREMENTS. 1 HP, 115V
BV-1	CALIBRATED BALANCE VALVE	BELL & GOSSETT	CB3/4LF	PC	-	-	-	-	FURNISH AND INSTALL AS SHOWN ON PLANS AND WITH MANUFACTURERS RECOMMENDATIONS MODEL CB CALIBRATED BALANCE VALVES.
ECO	EXTERIOR CLEANOUT	JAY R. SMITH	4313	HJC	-	-	-	-	HEAVY TRAFFIC AREA EXTERIOR CLEANOUT WITH ACCESS COVER AND TWO-WAY FITTING. SEE PLANS FOR PIPE SIZE CONNECTION.
EWC-1	ELECTRIC WATER COOLER	ELKAY HI-LO	EZSTL8LC	HJC	1/2"	-	2"	1-1/2"	BARRIER FREE ADA COMPLIANT ELECTRIC WATER COOLER. COORDINATE POWER OUTLET LOCATION WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL CORD WITH 3-PRONG PLUG. INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO ARCHITECTURAL ELEVATION VIEWS FOR MOUNTING HEIGHTS.
EWH-1	ELECTRIC WATER HEATER	BRADFORD WHITE	M-II-50-15-3SF	HJC	1-1/4"	-	-	-	50 GALLON "VITRAGLAS" LINED STEEL TANK. MAGNESIUM ANODE ROD AND NON-CFC FOAM INSULATION BETWEEN OUTER STEEL JACKET. SURFACE MOUNTED THERMOSTAT AND SCREW IN STYLE INCOLOY SHEATED HEATING ELEMENTS, 15 KW, 208V, 3PH , SET OUTLET TEMPERATURE AT 140 °F. WATER HEATER STAND BY HOLD-RITE MODEL #40-S-26-U WITH QP-26 DRAIN PAN. PROVIDE THERMAL EXPANSION TANK MAINLINE MLT5
F3	3 COMPARTMENT SINK	-	-	WAWA	3/4"	3/4"	-	-	FURNISHED BY WAWA, INSTALLED BY PLUMBING CONTRACTOR.
F5	HAND SINK	KROWNE	HS-30L	HJC	1/2"	1/2"	2"	1-1/2"	WALL MOUNTED, S/S HAND SINK WITH FAUCET & STRAINER. CHROME PLATED BRASS ANGLE STOPS WITH CHROME PLATED RISERS AND CHROME PLATED ESCUTCHEONS; CHROME PLATED BRASS TAILPIECE & TRAP(PVC NOT PERMITTED). FAUCET HANDLES SHALL BE ALIGNED TO BE PERPENDICULAR TO THE FLOOR WHEN IN THE CLOSED POSITION. PROVIDE MIXING VALVE WATTS MODEL #LFMMV-US-M1. MIXING VALVE SHALL BE LOCATED ABOVE THE "LAY-IN" CEILING TILE WHERE APPLICABLE. TEMPERATURE GAUGE SHALL BE EASILY READABLE FROM THE FLOOR OR A LADDER. TEMPERED WATER SHALL BE SET AT 120°F.
FCO	FLOOR CLEANOUT	ZURN	CO-2450-PV	HJC	-	-	-	-	FLOOR CLEANOUT WITH ACCESS COVER. SEE PLANS FOR PIPIE SIZE CONNECTION.
FD-1	FLOOR DRAIN	JAY R. SMITH	2005-A	HJC	-	-	3"	1-1/2"	CAST IRON BODY WITH BOTTOM OUTLET, NICKEL BRONZE ROUND STRAINER. PROVIDE DEEP SEAL TRAP (2005L-A05-NB) AND PROVENT SYSTEMS TRAP GUARD MODEL TG3H. IN RESTROOMS TOP OF FD-1 STRAINER HEAD SHALL BE SET FLUSH WITH TOP OF CONCRETE SLAB ON GRADE.
FD-3	FLOOR DRAIN	JAY R. SMITH	2005-F37	HJC	-	-	3"	1-1/2"	CAST IRON BODY WITH BOTTOM OUTLET, NICKEL BRONZE ROUND STRAINER WITH FUNNEL. PROVIDE DEEP SEAL (2005L-F37-NB) TRAP AND PROVENT SYSTEMS TRAP GUARD MODEL TG3H. IN WATER SERVICE ROOM OR EXTERNAL CLOSET TOP OF FD-3 FUNNEL/EXTENDED RIM TO BE FLUSH WITH FINISHED FLOOR (TERRAZO).
FS-1	FLOOR SINK	PLASTIC ODDITIES	RBH-300H	HJC	-	-	SEE PLANS	-	12"Ø x 5.5" DEEP, PLASTIC BODY WITH ACID RESISTING INTERIOR AND HALF PLASTIC GRATE TOP.
FS-5	FLOOR SINK	PLASTIC ODDITIES	RBH-300T	HJC	-	-	SEE PLANS	-	12"Øx 5.5" DEEP, PLASTIC BODY WITH ACID RESISTING INTERIOR AND THREE-QUARTER PLASTIC GRATE TOP.
HUB-1	HUB DRAIN	-	-	PC	-	-	3"	-	3" X 6" INCREASER FITTING. TOP OF FITTING SET @ 1" A.F.F. PROVIDE WITH 3" SNAP-IN STRAINER. SEE HUB DRAIN DETAIL THIS SHEET.
HUB-2	HUB DRAIN	-	-	PC	-	-	3"	-	TOP OF FITTING SET @ 1" A.F.F. PROVIDE WITH 3" SNAP-IN STRAINER.
LAV-1	LAVATORY UNDERMOUNT SINK	ELKAY	ELUH1811 W/ LKUCLIP	CABINET	1/2"	1/2"	2"	1-1/2"	ADA COMPLIANT UNDER MOUNT STAINLESS STEEL LAVATORY. INSTALL AS REQUIRED TO MEET ADA GUIDELINES. PROVIDE WITH MCGUIRE MODEL #H158LK, #155A, & #8902. PROVIDE ZURN FAUCET MODEL #Z6915-GEN WITH THESE OPTIONS 0.5 GPM VANDAL RESISTANT LAMINAR FLOW & LOW LEAD COMPLIANT. PROVIDE WITH MIXING VALVE WATTS MODEL #LFMMV-US-M1. INSTALL USING MANUFACTURERS RECOMMENDATIONS. USE OFFSET TAILPIECE TO AVOID CONFLICT WITH CABINET DOOR.
LAV-2	LAVATORY WALL HUNG	AMERICAN STANDARD	0355.012	HJC	1/2"	1/2"	2"	1-1/2"	ADA COMPLIANT WALL HUNG VITREOUS LAVATORY. INSTALL AS REQUIRED TO MEET ADA GUIDELINES. PROVIDE WITH MCGUIRE MODEL #H158LK, #155A, & #8902. PROVIDE ZURN FAUCET MODEL #Z6915-GEN WITH THESE OPTIONS 0.5 GPM VANDAL RESISTANT LAMINAR FLOW & LOW LEAD COMPLIANT. PROVIDE LAV SHIELD TRUEBRO MODEL #2018-AS-L. PROVIDE WITH MIXING VALVE WATTS MODEL #LFMMV-US-M1. INSTALL USING MANUFACTURERS RECOMMENDATIONS.
MR-1	MOP RECEPTOR	FIAT	MSB-3624	HJC	3/4"	3/4"	3"	1-1/2"	FLOOR MOUNTED MOLDED PLASTIC BASIN WITH HOSE BRACKET 832-AA, WALL MOUNTED FAUCET 830-AA, MOP HANGER 889-CC AND CORNER GUARD ON THE FRONT LIP.
MW4	SINK COUNTERTOP	-	-	CABINET	1/2"	1/2"	2"	1-1/2"	FURNISHED BY WAWA, INSTALLED BY PLUMBING CONTRACTOR.
MW5.4/ MW9.1	SINK COUNTERTOP	-	-	CABINET	1/2"	1/2"	2"	1-1/2"	FURNISHED BY WAWA, INSTALLED BY PLUMBING CONTRACTOR. REFERENCE DETAIL 15 THIS SHEET FOR MW5.2.
MX-1	MIXING VALVE (LAVATORIES)	WATTS REGULATOR	LFMMV-US-M1	HJC	1/2"	1/2"	-	-	ASSE 1070 MIXING VALVE SET AT 110° F (UNLESS NOTED).
MX-2	MIXING VALVE (HAND WASHING)	WATTS REGULATOR	LFMMV-US-M1	HJC	1/2"	1/2"	-	-	ASSE 1070 MIXING VALVE SET AT 120° F (UNLESS NOTED).
RD-1	ROOF DRAIN	JAY R. SMITH	1340T	HJC	-	-	-	-	DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP & GRAVEL STOP WITH POLYETHYLENE DOME AND EXTENSION SLEEVE AS REQUIRED.
RD-2	PRIMARY ROOF DRAIN	ZURN	ZC-100	HJC	-	-	-	-	MAIN ROOF DRAIN, COATED CAST IRON BODY WITH WITH CAST IRON DOME STRAINER. PIPE SIZE = 4"
RP-1	RECIRCULATING PUMP	BELL & GOSSETT	NBF-9F/LW	HJC	-	-	-	-	PROVIDE WITH MODEL AQS-1/2 AQUASTAT. PROVIDE ELECTRICAL DISCONNECT SWITCH. ELECTRICAL REQUIREMENTS ARE 115v/1/60hz. CAPACITY FOR PUMP IS 5 GPM AT 5 FT HEAD.
UR-1	URINAL	AMERICAN STANDARD	6561.017	HJC	3/4"	-	2"	1-1/2"	TRIMBROOK 1.0 GPF SIPHON JET URINAL, ADA COMPLIANT FLUSHING RIM, VITREOUS CHINA URINAL. LOW CONSUMPTION AND SIPHON JET FLUSH ACTION. SLOAN "ROYAL OPTIMA" FLUSH VALVE MODEL 186-1 ES-S TOP SPUD WITH ACCESSORY EL-154. PROVIDE WITH RECOMMENDED WALL CARRIER SYSTEM, PROVIDE RECOMMENDED K2 HANGERS IN LIEU OF CARRIER.
WC-1	WATER CLOSET FLUSH VALVE (ADA)	AMERICAN STANDARD	3461.001	HJC	1"	-	4"	2"	FLOOR MOUNTED ADA COMPLIANT, VITREOUS CHINA, 1.6 GPF, TOP SPUD, ELONGATED FLUSH VALVE WATER CLOSET. PROVIDE WITH MANUFACTURERS RECOMMENDED ANGLE SUPPLY STOPS, SLOAN "ROYAL OPTIMA" FLUSH VALVE MODEL 111 ES-S TOP SPUD WITH ACCESSORIES EL-154 & EL-226. PROVIDE WITH OLSONITE MODEL #95SSCT SEAT.
WCH	WALL HYDRANT	JAY R. SMITH	5509QT-SAP-RB	HJC	3/4"	-	-	-	PROVIDE WALL HYDRANTS AS LOCATED ON THE PLUMBING DRAWINGS. WALL HYDRANTS SHALL BE AUTOMATIC DRAINING WITH 3/4 INCH VACUUM BREAKER HOSE CONNECTION. COLD WATER SUPPLY SHALL BE PROVIDED WITH A BACKFLOW PREVENTER AS INDICATED ON THE PLUMBING DRAWINGS.
WCH-1	WALL HYDRANT - GAS CANOPY	JAY R. SMITH	5618	HJC	3/4"	-	-	-	PROVIDE WALL HYDRANTS AS LOCATED ON THE CANOPY AND PLUMBING DRAWINGS. WALL HYDRANTS SHALL BE EQUIPED WITH KEYED OPETION AND HAVE 3/4 INCH VACUUM BREAKER HOSE CONNECTION. COLD WATER SUPPLY SHALL BE PROVIDED WITH A BACKFLOW PREVENTER. PROVIDE HOSE HOOK.
WCO	WALL CLEANOUT	ZURN	Z1446	HJC	-	-	-	-	WALL CLEANOUT WITH STAINLESS STEEL ROUND ACCESS COVER. SEE PLANS FOR PIPE SIZE CONNECTION.
SA	SHOCK ARRESTOR	WILKINS	1250	HJC	-	-	-	-	WATER HAMMER ARRESTOR SHALL MEET ASSE 1010. THE DEVICE SHALL CONSIST OF A COPPER BODY WITH AN ACETAL PISTON, BUNA NITRILE O-RINGS AND LEAD FREE SOLDER. THE DEVICE SHALL BE PRE-CHARGED AND SEALED AT THE FACTORY

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FINAL LOCATIONS AND MOUNTING DIMENSIONS OF ALL PLUMBING FIXTURES. PROVIDE ADA CONFORMING FACTORY INSULATION KIT ON HOT, COLD AND P-TRAP WASTE PIPING AT HANDICAP DESIGNATED LAVATORIES.
2. SEE EQUIPMENT SCHEDULE ON SHEET EQ1 FOR EQUIPMENT NOT LISTED.
3. URINALS AND WATER CLOSETS SHALL COMPLY WITH ASME A112.19.2
4. FLOOR SINK AND FLOOR DRAIN RIMS SHALL BE FLUSH WITH THE FINISHED FLOOR, UNLESS SPECIFICALLY REQUIRED BY THE LOCAL AUTHORITY TO BE RAISED. FLOOR DRAINS IN RESTROOMS SHALL BE SET FLUSH WITH TOP OF CONCRETE SLAB ON GRADE.

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SHEET TITLE
PLUMBING SCHEDULE & DETAILS

Revision Schedule

No.	Description	Date
	PERMIT SET	05/18/2019
A	REV 2019.01	09/09/2020
	PRE-BID SET	09/10/2020
	BID SET	09/24/2020

PROJECT NO. 2170780
DATE 09-09-2020
DRAWN DJS
CHECKED JJD

P5