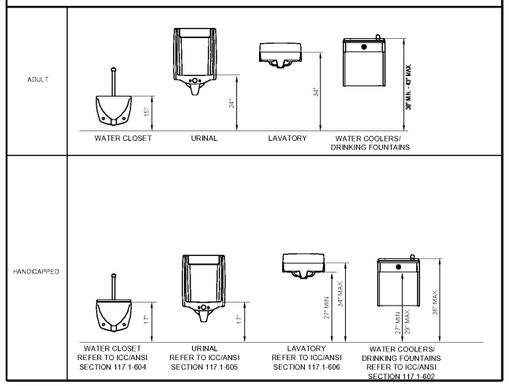
FIXTURE MOUNTING HEIGHTS



NOT TO SCALE

PLUMBING LEGEND

- SANITARY WASTE LINE
- SANITARY VENT LINE
- STORM DRAINAGE LINE
- DOMESTIC COLD WATER LINE
- DOMESTIC HOT WATER LINE
- HOT WATER RECIRCULATING LINE
- GW GREASE WASTE LINE
- 110° TEMPERED WATER (110°)
- 140° HIGH TEMPERATURE WATER (140°)
- WH WALL HYDRANT
- F.CO. FLOOR CLEANOUT
- G.CO. GRADE CLEANOUT
- W.CO. WALL CLEANOUT
- CO. CLEANOUT AT END OF LINE
- FLOOR DRAIN
- BALL VALVE
- BUTTERFLY VALVE
- GLOBE VALVE
- CHECK VALVE
- PRV – PRESSURE REDUCING VALVE
- GATE VALVE IN RISER
- GATE VALVE IN CAST IRON VALVE BOX
- RELIEF VALVE
- UNION IN LINE
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER (FLAT ON TOP)
- PIPE TURNS TO
- PIPE TURNS AWAY
- HOSE BIBB WITH VACUUM BREAKER
- PRESSURE REDUCING VALVE
- THERMOMETER
- PRESSURE GAUGE
- VACUUM RELIEF VALVE
- "A" WATER HAMMER ARRESTER "PDI SYMBOL"
- PIPE SUPPORT
- AP ACCESS PANEL
- (17) KITCHEN EQUIPMENT NUMBER 11

PLUMBING FIXTURE CONNECTION SCHEDULE*

P-NO.	FIXTURE	COLD WATER SIZE	HOT WATER SIZE	WASTE			VENT SIZE	REMARKS
				DIRECT SIZE	INDIRECT SIZE	INDIRECT DRAIN		
P-1	WATER CLOSET - FLOOR MOUNTED - FLUSH VALVE	1"	-	4"	-	-	2"	
P-1A	WATER CLOSET - FLOOR MOUNTED - FLUSH VALVE - HANDICAPPED	1"	-	4"	-	-	2"	
P-2	URINAL - WALL HUNG - FLUSH VALVE	3/4"	-	2"	-	-	2"	
P-2A	URINAL - WALL HUNG - FLUSH VALVE - HANDICAPPED	3/4"	-	2"	-	-	2"	
P-3	LAVATORY - WALL HUNG - (STUDENT)	1/2"	-	1 1/2"	-	-	2"	(1)
P-3A	LAVATORY - WALL HUNG - HANDICAPPED - (STUDENT)	1/2"	-	1 1/2"	-	-	2"	(1)
P-3B	LAVATORY - WALL HUNG - (ADULT) - HANDICAPPED	1/2"	1/2"	1 1/2"	-	-	2"	
P-4	SERVICE SINK - FLOOR MOUNTED - (36"x24")	1/2"	1/2"	3"	-	-	2"	
P-4A	SINK - SINGLE COMPARTMENT - COUNTERTOP	1/2"	1/2"	1 1/2"	-	-	2"	
P-5	ICEMAKER VALVE BOX	1/2"	-	-	-	-	2"	
P-6	WATER COOLER - WALL HUNG	1/2"	-	1 1/2"	-	-	2"	
P-6A	WATER COOLER - WALL HUNG - HANDICAPPED WITH BOTTLE FILLER	1/2"	-	1 1/2"	-	-	2"	
P-7	HOSE BIBB	1/2"	-	-	-	-	-	
P-8	WALL HYDRANT	3/4"	-	-	-	-	-	

REMARKS:

(1) PROVIDE LAV. SHIELD
(2) NEUTRALIZATION TANK LOCATED IN CABINET
(3) TRAP PRIMER DRAIN
(4) 3/4" ANTI-SPILL VACUUM BREAKER, LOCATE 6" MINIMUM ABOVE FLOOD RIM.
(5) 140° HOT WATER
(6) PLUMBING CONTRACTOR TO REMOVE AND CONCRETE/PLASTER CAP TO BE PROVIDED BY PLUMBING CONTRACTOR
(7) FLOOR DRAIN LOCATED IN TRENCH DRAIN. FLOOR DRAIN SHALL HAVE DOME GRATE
(8) FIXTURE BY OTHERS
(9) RUN DRAIN LINE TO NEAREST FLOOR DRAIN

*GENERAL PLUMBING FIXTURE NOTES: (THESE NOTES APPLY TO ALL APPLICABLE PLUMBING FIXTURES)

a. THE CONTRACT DOCUMENTS ARE INTENDED TO PROVIDE A GUIDE FOR THE PLUMBING CONTRACTOR FOR THE PURPOSES OF BIDDING THIS PROJECT. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL ROUGH-IN LOCATIONS AND FINAL CONNECTIONS WITH APPROVED FIXTURE SHOP DRAWINGS AND CUT SHEETS.

b. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY TO PROVIDE FINAL CONNECTIONS TO EQUIPMENT INCLUDING OWNER FURNISHED EQUIPMENT IF ANY.

c. PROVIDE SUPPLY STOPS, TRAPS AND RELATED FITTINGS. PROVIDE ALL OTHER ACCESSORIES AT EACH PIECE OF EQUIPMENT TO ALLOW THE EQUIPMENT TO OPERATE PROPERLY IN ACCORDANCE WITH APPERTINENT CODES AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

WATER HAMMER ARRESTER SCHEDULE

P.D.I. SYMBOL	FIXTURE UNIT RATING	MANUFACTURER AND MODEL	REMARKS
A	1-11	J.R. SMITH HYDROTROL 5005	
B	12-32	J.R. SMITH HYDROTROL 5010	
C	33-60	J.R. SMITH HYDROTROL 5020	
D	61-113	J.R. SMITH HYDROTROL 5030	
E	114-154	J.R. SMITH HYDROTROL 5040	
F	155-330	J.R. SMITH HYDROTROL 5050	

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	HWD	HOT WATER DOWN	PFD	PIPE TO FLOOR DRAIN
AP	ACCESS PANEL	HWFA	HOT WATER FROM ABOVE	PRV	PRESSURE REDUCING VALVE
CI	CAST IRON	HWFB	HOT WATER FROM BELOW	RCP	REINFORCED CONCRETE PIPE
CM	CENTIMETER	HWR	HOT WATER RECIRCULATING LINE	ST	STORAGE TANK
CW	COLD WATER	HWU	HOT WATER UP	TD	TRENCH DRAIN
CWD	COLD WATER DOWN	IW	INDIRECT WASTE	TYP	TYPICAL
CWFA	COLD WATER FROM ABOVE	IE	INVERT ELEVATION	UDS	UTILITY DISTRIBUTION SYSTEM
CWFB	COLD WATER FROM BELOW	M	METER	V	VENT
CWU	COLD WATER UP	MAX	MAXIMUM	VFB	VENT FROM BELOW
D	DIRECT WASTE	MIN	MINIMUM	VTR	VENT THRU ROOF
DIA	DIAMETER	MM	MILLIMETER	W	WASTE
ET	EXPANSION TANK	MV	MIXING VALVE	WD	WASTE DOWN
FD	FLOOR DRAIN	NC	NORMALLY CLOSED	WFA	WASTE FROM ABOVE
FS	FLOOR SINK	NO	NORMALLY OPEN		
FT	FEET	OC	ON CENTER		
G	GAS	OF	OVERFLOW DRAIN		
GPM	GALLONS PER MINUTE	P-1	PLUMBING FIXTURE NUMBER 1		
HW	HOT WATER	PDI	PLUMBING DRAINAGE INSTITUTION		

SEISMIC DESIGN CRITERIA

SEISMIC DESIGN CATEGORY (a):	C	(SEISMIC DESIGN NOT REQUIRED)
OCCUPANCY CATEGORY (b):	III	

NOTES:
(a) INFORMATION PROVIDED BY STRUCTURAL ENGINEER
(b) INFORMATION PROVIDED BY ARCHITECT

PLUMBING GENERAL NOTES

1. SEE SITE PLAN FOR CONTINUATION OF UTILITIES. COORDINATE INVERTS WITH SITE UTILITIES PRIOR TO INSTALLING UNDERGROUND UTILITIES.
2. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
3. EXCEPT WHERE PIPE SPACE IS PROVIDED, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
4. HOT AND COLD WATER PIPING RUNS ABOVE CEILING.
5. VENTS SHALL EXTEND THROUGH THE ROOF 18" ABOVE ROOF.
6. PROVIDE A 1/2" CHROME PLATED, LOOSE KEY HOSE BIBB UNDER ONE LAVATORY IN EACH TOILET SPACE EQUIPPED WITH A FLOOR DRAIN.
7. LOCATE HOSE BIBBS 2'-0" ABOVE FINISH FLOOR.
8. LOCATE WALL HYDRANTS 2'-0" ABOVE FINISH GRADE.
9. PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT. ACCESS IN RATED ASSEMBLIES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE ASSEMBLY.
10. COORDINATE PLUMBING WORK WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCE AND CONFLICT.
11. VENT PIPING SHALL PITCH A MINIMUM OF 1/8" PER FOOT.
12. ALL HOSE BIBBS, VALVES WITH THREADED HOSE CONNECTIONS, AND ALL WALL HYDRANTS SHALL BE EQUIPPED WITH A VANDAL PROOF VACUUM BREAKER.
13. COORDINATE FLOOR DRAINS FOR AIR CONDITIONING EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGHING IN FLOOR DRAINS.
14. PLUMBING CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S APPROVED SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL HAVE SHUT-OFF VALVES.
15. PLUMBING CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
16. WATER CLOSETS IN TOILET ROOMS SHALL BE INSTALLED ACCORDING TO APPROVED SHOP DRAWINGS OF TOILET PARTITIONS.
17. COLD AND HOT WATER LINES SHOWN IN THE AREA OF A FIXTURE AND/OR TOILET GROUP SHALL BE RUN FULL SIZE OF HEADER INDICATED IN WALL AND/OR CHASE. PROVIDE CONNECTION TO FIXTURES, HOSE BIBB AND TRAP PRIMER AS PLUMBING CONNECTION SCHEDULE AND DETAILS INDICATE.
18. SIZES OF VENT PIPE SHALL BE 2" UNLESS STATED OTHERWISE ON PLANS.
19. LOCATE FLUSH VALVE HANDLE ON WIDE SIDE OF HANDICAPPED WATER CLOSET AND URINAL.
20. PROVIDE TRAP PRIMER FOR DRAINS ON ALL FLOOR DRAINS AND FLOOR SINKS INCLUDING DRAINS FOR AIR CONDITIONING EQUIPMENT, EQUIPMENT DRAIN AND RELIEF, ETC.

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Buford Goff & Associates, Inc.
Engineers & Planners
1331 Elmwood Ave.
Suite 250
Columbia, SC 29201
Phone (803) 254-4282

ISSUE	DATE
BID DOCUMENTS	10.24.19

DRAWN BY: SJM
CHECKED BY: MA

PLUMBING LEGENDS, SCHEDULES AND DETAILS

MILLBROOK ELEMENTARY SCHOOL - ADDITIONS AND RENOVATIONS
255 E PINE LOG RD,
AIKEN, SC 29803
GMC # ACOL180004

P0.1