

PLUMBING NOTES:

- ALL SITE UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK.
- ALL SUSPENDED PIPING SHALL BE SUPPORTED FROM FLOOR AND/OR ROOF STRUCTURAL MEMBERS. IN NO CASE SHALL PIPING BE SUSPENDED FROM FLOOR OR ROOF DECK LESS THAN 4" THICK CONCRETE.
- FIRE STOP ALL PENETRATIONS OF FIRE RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
- PIPING INSTALLED IN PLENUM SPACES SHALL MEET ASTM E-84, ASTM E-136 AND UL 723 STANDARDS FOR FLAME SPREAD AND SMOKE GENERATION. COORDINATE PLENUM LOCATIONS WITH MECHANICAL CONTRACTOR.
- COORDINATE ALL WORK WITH OTHER TRADES.
- PROVIDE DEEP SEAL TRAPS ON ALL FLOOR DRAINS NOT PROVIDED WITH TRAP PRIMERS.
- PROVIDE DRAIN VALVES AT ALL LOW POINTS IN ALL WATER PIPING SYSTEMS.
- WATER PIPING INSTALLED BELOW FLOOR SLAB SHALL BE TYPE L SOFT COPPER TUBING WITH NO JOINTS BELOW THE SLAB.
- ALL WATER, VENT AND GAS PIPING SHALL BE INSTALLED ABOVE THE CEILING UNLESS NOTED OTHERWISE.
- ALL SOIL, WASTE AND STORM PIPING SHALL BE INSTALLED BELOW THE FLOOR UNLESS NOTED OTHERWISE.
- PROVIDE CLEANOUTS AT THE BASE OF ALL SOIL, WASTE, VENT AND STORM RISER OVER ONE STORY IN HEIGHT.
- WALL HYDRANTS SHALL BE MOUNTED 1'-6" ABOVE FINISHED GRADE.
- HOSE BIBBS SHALL BE MOUNTED 1'-6" ABOVE FINISHED FLOOR.

PLUMBING LEGEND

ABBREVIATION	SYMBOL	DESCRIPTION
HWR	-----	HOT WATER RETURN PIPING
H	-----	HOT WATER PIPING
T	---T---	TEMPERED HOT WATER PIPING
C	-----	COLD WATER PIPING
G	---G---	NATURAL GAS PIPING
AW	---AW---	ACID WASTE PIPING
AV	---AV---	ACID VENT PIPING
S,W	-----	SOIL AND WASTE PIPING
V	-----	VENT PIPING
		SOLENOID VALVE
		SHUT-OFF VALVE
		SWING CHECK VALVE
		FLOW CONTROL
		CONNECT TO EXISTING
HB		HOSE BIBB
WCO		WALL CLEAN OUT
RD		ROOF DRAIN
FCO		FLOOR CLEAN OUT
GCO		GRADE CLEAN OUT
FD		FLOOR DRAIN - TYPE
HA		WATER HAMMER ARRESTOR - SIZE
VTR		VENT THRU ROOF
AFF		ABOVE FINISH FLOOR
AFG		ABOVE FINISH GRADE
A/C		ABOVE CEILING
B/F		BELOW FLOOR
GPM		GALLONS PER MINUTE
PSI		POUNDS PER SQUARE INCH
U/G		UNDER GROUND
TYP.		TYPICAL
T-P		TRAP PRIMER
H.C.		HANDICAP ACCESSIBLE
GPH		GALLONS PER HOUR
CONN.		CONNECTION
ARCH.		ARCHITECTURAL
PRESS.		PRESSURE
W.C.		WATER COLUMN
DWGS.		DRAWINGS

FIXTURE SCHEDULE

ITEM	DESCRIPTION	MINIMUM CONNECTION SIZE (INCHES)				MOUNTING HEIGHT/REMARKS (ABOVE FLOOR)
		HOT WATER	COLD WATER	WASTE	VENT	
P-1A	WATER CLOSET	---	1-1/4"	3"	1-1/2"	15" RIM HT.
P-1B	WATER CLOSET - H.C.	---	1-1/4"	3"	1-1/2"	18" RIM HT.
P-2A	URINAL	---	3/4"	2"	1-1/2"	24" RIM HT.
P-2B	URINAL - H.C.	---	3/4"	2"	1-1/2"	17" RIM HT.
P-3	LAVATORY - H.C.	1/2"	1/2"	1-1/4"	1-1/2"	34" RIM HT.
P-4	MOP SINK	3/4"	3/4"	3"	1-1/2"	FLOOR MTD. / 36" FAUCET HT.
P-5A	ELECTRIC WATER COOLER	---	1/2"	1-1/4"	1-1/2"	42" RIM HT.
P-5B	ELECTRIC WATER COOLER - H.C.	---	1/2"	1-1/4"	1-1/2"	34" RIM HT.
P-6	SAFETY SHOWER/EYEWASH	---	1-1/4"	3" FD	1-1/2"	FREE STANDING / 85°F WATER
P-7	ICE MAKER BOX	---	1/2"	---	---	30" BOX HT.
L-1	LAB SINK	1/2"	1/2"	1-1/2"	1-1/2"	INSTALLED AS PART OF CASEWORK

DOMESTIC WATER HEATER SCHEDULE

ITEM	CAPACITY	RECOVERY @ 100 °F	FUEL	ELECTRICAL CHARACTERISTICS	LOCATION	REMARKS
WH-1	40 GALLONS STORAGE 9 KW INPUT	36 GPH	ELEC.	SEE ELECTRICAL DWGS.	JANITOR 105	---

PUMP SCHEDULE

PUMP No.	SERVICE	HP	GPM	DISCH. HEAD (FT)	WATER HEATER	ELECTRICAL DATA	REMARKS
HWC-1	HOT WATER CIRCULATION	1/3	2.0	10	WH-1	SEE ELECTRICAL DWGS.	---

HAMMER ARRESTOR SCHEDULE

ITEM	PDI UNIT	FIXTURE UNIT
HA	A	1-11
HA	B	12-32
HA	C	33-60
HA	D	61-113
HA	E	114-154



BY	DATE	SYMBOL	DESCRIPTION

DESIGNED BY: JGB
 DWN BY: JGB
 CHECKED BY: CCS
 SOLICITATION NO.: WJ12M-09-R-0018
 CONTRACT NO.:
 SUBMITTED BY:
 FILE NAME: BRHP-01
 SIZE: 34x22
 PLOT SCALE: 1:1
 PLOT DATE:
 DATE: 25 JAN 2010
 CATEGORY CODE: 730-46-01

U. S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 SAVANNAH DISTRICT

LS3P ASSOCIATES LTD.
 205 1/2 KING STREET
 CHARLESTON, SC 29401

ALBERTTON JUNIOR HIGH SCHOOL ADDITION
 FT BRAGG NORTH CAROLINA

PLUMBING NOTES & SCHEDULES

PLATE REFERENCE NUMBER
P-001
 SHEET 66