

NOTES BY SYMBOL - SHEET P102A

NUMBER	DESCRIPTION
1	EXISTING 2" CW SERVICE ENTRANCE TO BUILDING.
2	CONNECT NEW 2" CW TO EXISTING.
3	3/4" HW AND 3/4" CW DOWN TO CLOTHES WASHING MACHINE BOX.
4	1-1/4" HW AND 1-1/4" CW TO ELECTRIC WATER HEATER, WH-1.
5	REGULATING PUMP, RP-1.
6	3/4" HW AND 3/4" CW DOWN TO MOP SINK.
7	1/2" CW UP TO ICE MAKER AT MEZZANINE.
8	1/2" CW UP TO SODA MACHINE AT MEZZANINE.
9	1/2" CW UP TO ICEE MACHINE AT MEZZANINE.
10	1/2" HW AND 1/2" CW UP TO HAND WASHING SINK AT MEZZANINE.
11	3/4" HW AND 3/4" CW DOWN TO HAND WASHING SINK. PROVIDE WITH ASSE 1070 CERTIFIED THERMOSTATIC MIXING VALVE, (TMV1).
12	PROVIDE ASSE 1070 CERTIFIED THERMOSTATIC MIXING VALVE.
13	1/2" CW DOWN TO BAG-N-BOX SYRUP SYSTEM. PROVIDE WITH RP2 BACKFLOW PREVENTER WATTS LF909 FOR FINAL CONNECTION, (ASSE 1013).
14	1/2" CW DOWN TO SODA DISPENSER. PROVIDE WITH WATTS SD-3 LEAD FREE DUAL CHECK BACKFLOW PREVENTER, (ANSI/NSF 18 AND ASSE 1022).
15	1/2" CW DOWN TO ICEE FROZEN DRINK MACHINE. PROVIDE WITH WATTS SD-3 LEAD FREE DUAL CHECK BACKFLOW PREVENTER, (ANSI/NSF 18 AND ASSE 1022).
16	3/4" HW AND 3/4" CW DOWN TO THREE COMPARTMENT SINK.
17	1/2" CW DOWN TO ICE MAKER.
18	2" CW DOWN TO FUZZ SIZE MANIFOLD.
19	3/4" CW DOWN TO LAVATORIES.
20	1" HW LOOP DOWN IN WALL TO LAVATORIES.
21	1" HW LOOP UP FROM LAVATORIES.
22	3/4" HOT WATER RETURN UP FROM LAVATORIES.
23	LINE SET TO BE EXTENDED FROM SYRUP RACK TO SODA DISPENSER.

WATER CALCULATION*

AVAILABLE PRESSURE (PSI)	60.0"
METER LOSS	4.0
STATIC PRESSURE LOST (ELEV.) (20'-0" X .43)	8.6
MIN. PRESS. LAST FIXTURE	25.0
BACKFLOW PREVENTER LOSS	12.0
TOTAL PRESSURE AVAILABLE	10.4

DISTANCE - MAIN TAP TO LAST FIXTURE	240'
EQUIVALENT DISTANCE IN FEET (X 1.25)	300'

ALLOWABLE PRESSURE LOSS PER 100 FT.	10.4 X 100' 300'
PRESSURE DROP PER 100 FEET, (PSI)	3.5

*NOTES:

1. THE SERVICE WATER PRESSURE IS ESTIMATED TO BE 60 PSI. THE CONTRACTOR SHALL VERIFY THE WATER PRESSURE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF ANY DISCREPANCIES OR DEFICIENCIES.
2. IF THE SUPPLIED SERVICE WATER PRESSURE EXCEEDS 80 PSI, CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING REGULATOR.

WATER DEMAND CHART*

DESCRIPTION	QUANTITY	SUPPLY WSFU	TOTAL WSFU
WATER CLOSET, (TANK TYPE)	8	5	40
URINAL	2	5	10
LAVATORY	6	2	12
DRINKING FOUNTAIN	1	0.25	0.25
MOP SINK	1	3	3
THREE COMPARTMENT SINK	1	4	4
HAND WASHING SINK	3	2	6
CLOTHES WASHING MACHINE	1	4	4
ICEE FROZEN DRINK MACHINE	3	0.5	1.5
SODA DISPENSER	2	0.5	1
ICE MAKER	2	0.5	1
TOTAL			82.75

82.75 WSFU = 41 GPM (TANK TYPE)

*PER TABLE E103.3(2), 2018 INTERNATIONAL PLUMBING CODE (IPC)