

Estimated quantities of potable water required by the project, and of sanitary sewage and storm water to be generated, including the methods of calculating those quantities:

**Multi-Family - Total Site**

Unit	Qty.	Water Demand (WSFU)		Sanitary (DFU)	
		Per Unit	Unit Total	Per Unit	Unit Total
1-BATH	271	7.8	2113.8	9	2439
2-BATH	91	11.4	1037.4	14	1274
3-BATH		14.3	0	18	0
X1 CLUB	1	43	43	32	32
X2 RETAIL/RESTURANT		133.2	0	102	0
Living Unit	362	WSFU	3194.2	DFU	3745
Totals		GPM	433		

(1)6" DOMESTIC WATER SUPPLY (3)8" SANITARY MAX. 1,600 DFU EA.

**\*See Note 5 - Minimum 4" Domestic Supply and Meter**

**\*See Note 6 - (6) 6" SANITARY**

(1)6" FIRE PROTECTION SUPPLY

Prelim. Info: 362 Total Units (75% 1bath; 25% 2-bath)

**Notes:**

1. Supply fixture unit value based on the International Plumbing Code table E103.3(2) <https://dcra.dc.gov/page/district-columbia-construction-codes>
2. Drainage fixture unit value based on the International Plumbing Code table 709.1
3. Additional demands for HVAC make-up, irrigation, pool, fountain, laundry, food service, etc.
4. Add 5 GPM for each hose bibb up to a total of 15 GPM maximum
5. The domestic water supply to site and meter may be down sized to the next smaller size, when meter provided is capable of meeting the total GPM demand per building and approved by AHJ.
6. When civil utility connections for Sanitary and Storm are not available on all sides of building Pipe Bends and Slope will require 24"-36" clear space to run across interior of building and/or garage. Suggest multiple sanitary connections be provided to allow for head-height clearances within the garage and/or building.