

# WATER

## Plumbing Fixture Plan Review

### System Development Charge Calculation Sheet Based on Fixture Unit Weight (FUW)

**All water systems shall have water hammer arrestors and shall be accessible - Sec: 609.10 UPC**

| Appliances, Appurtenances or Fixtures                                    | No Change to Existing Fixture | Existing Fixture Relocated or Replaced | Existing Fixture Removed Not Replaced | New Fixture Added Not a Replacement | FUW Count For Each Item | Total FUWs City to complete |
|--|-------------------------------|--|---------------------------------------|-------------------------------------|-------------------------|-----------------------------|
| Bathtub or combination bath/shower                                       |                               |  |                                       |                                     | 4                       |                             |
| Bidet - Private  |                               |  |                                       |                                     | 1                       |                             |
| Clothes washer   |                               |  |                                       |                                     | 4                       |                             |
| Dental unit, cuspidor  |                               |  |                                       |                                     | 1                       |                             |
| Dishwasher, domestic   |                               |  |                                       |                                     | 1.5                     |                             |
| Drinking fountain or water cooler - Private/Public                       |                               |  |                                       |                                     | 0.5                     |                             |
| Drinking fountain or water cooler - Assembly                             |                               |  |                                       |                                     | 0.75                    |                             |
| Hose bib   |                               |  |                                       |                                     | 2.5                     |                             |
| Hose bib, each additional  |                               |  |                                       |                                     | 1                       |                             |
| Lavatory (bathroom sink)   |                               |  |                                       |                                     | 1                       |                             |
| Pedicure basin   |                               |  |                                       |                                     | 1                       |                             |
| Shower, per head   |                               |  |                                       |                                     | 2                       |                             |
| <b>SINKS</b>   |                               |  |                                       |                                     |                         |                             |
| Bar sink - Private   |                               |  |                                       |                                     | 1                       |                             |
| Bar sink - Public  |                               |  |                                       |                                     | 2                       |                             |
| Clinic Faucet - Public   |                               |  |                                       |                                     | 3                       |                             |
| Clinic flushometer valve with/without faucet - Public                    |                               |  |                                       |                                     | 8                       |                             |
| Kitchen, domestic  |                               |  |                                       |                                     | 1.5                     |                             |
| Laundry  |                               |  |                                       |                                     | 1.5                     |                             |
| Service or mop basin - Private   |                               |  |                                       |                                     | 1.5                     |                             |
| Service or mop basin - Public  |                               |  |                                       |                                     | 3                       |                             |
| Wash-up, each set of faucets - Public                                    |                               |  |                                       | 1                                   | 2                       | 2                           |
| Wash fountain, circular spray - Public                                   |                               |  |                                       |                                     | 4                       |                             |
| <b>URINALS</b>   |                               |  |                                       |                                     | 2                       |                             |
| Urinal, 1.0 GPF Flushometer valve - Public                               |                               |  |                                       |                                     | 4                       |                             |
| Urinal, 1.0 GPF Flushometer valve - Assembly                             |                               |  |                                       |                                     | 5                       |                             |
| Urinal, <b>greater</b> than 1.0 GPF Flushometer valve - Public           |                               |  |                                       |                                     | 5                       |                             |
| Urinal, <b>greater</b> than 1.0 GPF Flushometer valve - Assembly         |                               |  |                                       |                                     | 6                       |                             |
| Urinal, flush tank – Private or Public                                   |                               |  |                                       |                                     | 2                       |                             |
| Urinal, flush tank - Assembly  |                               |  |                                       |                                     | 3                       |                             |
| <b>WATER CLOSETS</b>   |                               |  |                                       |                                     |                         |                             |
| Water closet, 1.6 GPF Gravity tank/Flushometer tank – Private/Public     |                               |  |                                       |                                     | 2.5                     |                             |
| Water closet, 1.6 GPF Gravity tank/Flushometer tank – Assembly           |                               |  |                                       |                                     | 3.5                     |                             |
| Water closet, 1.6 GPF Flushometer valve – Private/Public                 |                               |  |                                       |                                     | 2.5                     |                             |
| Water closet, 1.6 GPF Flushometer valve – Assembly                       |                               |  |                                       |                                     | 3.5                     |                             |
| Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Private         |                               |  |                                       |                                     | 3                       |                             |
| Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Public          |                               |  |                                       |                                     | 5.5                     |                             |
| Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Assembly        |                               |  |                                       |                                     | 7                       |                             |
| Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Private  |                               |  |                                       |                                     | 7                       |                             |
| Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Public   |                               |  |                                       |                                     | 8                       |                             |
| Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Assembly |                               |  |                                       |                                     | 10                      |                             |
| <b>TOTALS</b>  |                               |  |                                       | 1                                   |                         | 2                           |

**Contact Engineering Services for current System Development fee information**

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# SANITARY SEWER

## Plumbing Fixture Plan Review

### System Development Charge Calculation Sheet Based on Fixture Unit Weight (FUW)

| Appliances, Appurtenances or Fixtures   | No Change to Existing Fixture | Existing Fixture Relocated or Replaced | Existing Fixture Removed Not Replaced | New Fixture Added Not a Replacement | FUW Count For Each Item | Total FUWs |
|---|-------------------------------|--|---------------------------------------|-------------------------------------|-------------------------|------------|
| Bath tub or combination bath/shower   |                               |  |                                       |                                     | 2                       |            |
| Bidet – 1 ¼”  |                               |  |                                       |                                     | 1                       |            |
| Bidet – 1 ½”  |                               |  |                                       |                                     | 2                       |            |
| Clothes washer, domestic, 2” standpipe  |                               |  |                                       |                                     | 3                       |            |
| Dental unit, cuspidor   |                               |  |                                       |                                     | 1                       |            |
| Dishwasher, domestic with independent drain   |                               |  |                                       |                                     | 2                       |            |
| Drinking fountain or water cooler – Private/Public                                    |                               |  |                                       |                                     | 0.5                     |            |
| Drinking fountain or water cooler – Assembly  |                               |  |                                       |                                     | 1                       |            |
| Floor drain   |                               |  |                                       |                                     | 2                       |            |
| Food waste grinder – commercial   |                               |  |                                       |                                     | 3                       |            |
| Lavatory, (bathroom sink)   |                               |  |                                       |                                     | 1                       |            |
| Lavatory, (bathroom sink) sets of 2 or 3  |                               |  |                                       |                                     | 2                       |            |
| Pedicure basin  |                               |  |                                       |                                     | 1                       |            |
| Shower, single head   |                               |  |                                       |                                     | 2                       |            |
| Shower, multi-head each additional  |                               |  |                                       |                                     | 1                       |            |
| Wash fountain, 1 ½”   |                               |  |                                       |                                     | 2                       |            |
| Wash fountain, 2”   |                               |  |                                       |                                     | 3                       |            |
| <b>SINKS</b>  |                               |  |                                       |                                     |                         |            |
| Bar sink - Private  |                               |  |                                       |                                     | 1                       |            |
| Bar sink – Public/Assembly  |                               |  |                                       |                                     | 2                       |            |
| Clinic, 3” Public/Assembly  |                               |  |                                       |                                     | 6                       |            |
| Commercial, 1 ½” with food waste  |                               |  |                                       |                                     | 3                       |            |
| Kitchen, domestic 1 ½” (with/without food waste grinder/dishwasher – Private/Public   |                               |  |                                       |                                     | 2                       |            |
| Laundry, 1 ½”   |                               |  |                                       |                                     | 2                       |            |
| Service sink /Mop basin, 2”/3”  |                               |  |                                       |                                     | 3                       |            |
| Service sink, flushing rim 3”   |                               |  |                                       |                                     | 6                       |            |
| Wash, each set of faucets – Public/Assembly   |                               |  |                                       | 1                                   | 2                       | 2          |
| <b>URINALS</b>  |                               |  |                                       |                                     |                         |            |
| Urinal, 2” integral trap 1.0 GPF – Private/Public                                     |                               |  |                                       |                                     | 2                       |            |
| Urinal, 2” integral trap 1.0 GPF – Assembly   |                               |  |                                       |                                     | 5                       |            |
| Urinal, 2” integral trap greater than 1.0 GPF – Private/Public                        |                               |  |                                       |                                     | 2                       |            |
| Urinal, 2” integral trap greater than 1.0 GPF – Assembly                              |                               |  |                                       |                                     | 6                       |            |
| Urinal, 1 ½” exposed trap – Private/Public  |                               |  |                                       |                                     | 2                       |            |
| Urinal, 1 ½” exposed trap – Assembly  |                               |  |                                       |                                     | 5                       |            |
| <b>WATER CLOSETS</b>  |                               |  |                                       |                                     |                         |            |
| Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Private   |                               |  |                                       |                                     | 3                       |            |
| Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Public    |                               |  |                                       |                                     | 4                       |            |
| Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Assembly  |                               |  |                                       |                                     | 6                       |            |
| Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Private  |                               |  |                                       |                                     | 4                       |            |
| Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Public   |                               |  |                                       |                                     | 6                       |            |
| Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Assembly |                               |  |                                       |                                     | 8                       |            |
| <b>TOTALS</b>   |                               |  |                                       | 1                                   |                         | 2          |

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