

# Appendix A

---

# Computed Maximum Water Surface Elevations

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 101             | 16.50                 | 14.48                                    | 14.97        | 15.26        | 15.62        | 16.04        | 16.25        |
| 103             | 16.50                 | 14.07                                    | 14.51        | 14.79        | 15.08        | 15.44        | 15.72        |
| 105             | 16.50                 | 14.05                                    | 14.49        | 14.77        | 15.05        | 15.39        | 15.66        |
| 107             | 16.50                 | 13.99                                    | 14.42        | 14.69        | 14.97        | 15.29        | 15.59        |
| 109             | 16.10                 | 13.90                                    | 14.29        | 14.52        | 14.74        | 15.04        | 15.34        |
| 111             | 15.80                 | 10.53                                    | 11.70        | 12.87        | 14.64        | <b>15.80</b> | <b>15.81</b> |
| 111.2           | 12.90                 | 9.56                                     | 10.24        | 10.75        | 11.56        | 12.44        | 12.81        |
| 113             | 17.00                 | 13.74                                    | 14.19        | 14.47        | 14.74        | 15.01        | 15.32        |
| 115             | 17.00                 | 13.63                                    | 14.19        | 14.48        | 14.75        | 15.00        | 15.31        |
| 117             | 16.10                 | 13.13                                    | 13.62        | 13.92        | 14.21        | 14.49        | 14.77        |
| 119             | 16.10                 | 13.13                                    | 13.62        | 13.91        | 14.21        | 14.48        | 14.76        |
| 121             | 16.70                 | 13.66                                    | 14.30        | 14.65        | 14.98        | 15.29        | 15.60        |
| 123             | 19.80                 | 19.36                                    | 19.77        | <b>19.80</b> | <b>19.81</b> | <b>19.82</b> | <b>19.83</b> |
| 125             | 19.50                 | 18.17                                    | 18.95        | 19.11        | 19.12        | 19.12        | 19.14        |
| 127             | 19.50                 | 17.83                                    | 18.08        | 18.12        | 18.12        | 18.13        | 18.14        |
| 129             | 17.80                 | 17.67                                    | <b>17.80</b> | <b>17.81</b> | <b>17.81</b> | <b>17.82</b> | <b>17.84</b> |
| 131             | 17.80                 | 17.63                                    | 17.75        | 17.75        | 17.75        | 17.76        | 17.78        |
| 133             | 18.50                 | 16.61                                    | 16.95        | 17.14        | 17.34        | 17.54        | 17.77        |
| 135             | 18.45                 | 16.58                                    | 16.91        | 17.09        | 17.27        | 17.45        | 17.63        |
| 137             | 17.80                 | 16.46                                    | 16.77        | 16.95        | 17.13        | 17.31        | 17.49        |
| 139             | 17.60                 | 15.81                                    | 16.14        | 16.32        | 16.51        | 16.72        | 16.96        |
| 141             | 16.90                 | 15.91                                    | 16.55        | 16.84        | <b>16.92</b> | <b>16.94</b> | <b>16.98</b> |
| 141.2           | 16.60                 | 15.89                                    | 16.46        | <b>16.62</b> | <b>16.65</b> | <b>16.68</b> | <b>16.71</b> |
| 143             | 17.30                 | 14.94                                    | 15.50        | 15.79        | 16.07        | 16.33        | 16.57        |
| 145             | 16.35                 | 13.64                                    | 14.09        | 14.34        | 14.60        | 14.86        | 15.13        |
| 147             | 16.80                 | 14.80                                    | 15.34        | 15.65        | 15.94        | 16.21        | 16.47        |
| 149             | 18.50                 | <b>18.51</b>                             | <b>18.54</b> | <b>18.55</b> | <b>18.58</b> | <b>18.63</b> | <b>18.70</b> |
| 151             | 15.90                 | 13.55                                    | 13.97        | 14.20        | 14.45        | 14.70        | 14.97        |
| 153             | 17.60                 | 13.38                                    | 13.80        | 14.03        | 14.28        | 14.54        | 14.82        |
| 155             | 17.60                 | 13.35                                    | 13.76        | 13.99        | 14.23        | 14.48        | 14.75        |
| 157             | 15.80                 | 12.93                                    | 13.38        | 13.64        | 13.92        | 14.19        | 14.49        |
| 159             | 16.00                 | 14.76                                    | 15.66        | 15.87        | 15.97        | <b>16.01</b> | <b>16.02</b> |
| 159.2           | 16.00                 | 14.71                                    | 15.64        | 15.84        | 15.91        | 15.95        | 15.97        |
| 161             | 15.20                 | 12.19                                    | 12.65        | 12.97        | 13.30        | 13.64        | 13.96        |
| 163             | 16.00                 | 11.02                                    | 11.70        | 12.11        | 12.50        | 12.90        | 13.28        |
| 165             | 17.50                 | 15.89                                    | 17.46        | <b>17.50</b> | <b>17.51</b> | <b>17.51</b> | <b>17.52</b> |
| 165.2           | 15.40                 | 15.07                                    | <b>15.40</b> | <b>15.45</b> | <b>15.48</b> | <b>15.52</b> | <b>15.55</b> |
| 165.3           | 16.00                 | 14.38                                    | 15.39        | 15.50        | 15.56        | 15.60        | 15.62        |
| 165.4           | 16.00                 | 14.33                                    | 15.37        | 15.48        | 15.55        | 15.58        | 15.61        |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 165.5           | 16.00                 | 13.50                                    | 13.92        | 13.96        | 13.99        | 14.00        | 14.04        |
| 165.6           | 16.00                 | 12.86                                    | 13.61        | 13.67        | 13.70        | 13.73        | 13.82        |
| 165.7           | 16.00                 | 12.32                                    | 12.55        | 12.57        | 12.58        | 12.72        | 12.90        |
| 165.8           | 16.00                 | 11.07                                    | 11.65        | 11.92        | 12.18        | 12.43        | 12.69        |
| 167             | 15.30                 | 9.88                                     | 10.47        | 10.75        | 11.03        | 11.27        | 11.54        |
| 167.2           | 15.00                 | 9.13                                     | 9.55         | 9.77         | 10.04        | 10.45        | 10.95        |
| 167.3           | 14.00                 | 7.86                                     | 8.69         | 9.19         | 9.70         | 10.21        | 10.80        |
| 169             | 15.00                 | 11.71                                    | 12.30        | 12.62        | 12.93        | 13.21        | 13.48        |
| 171             | 14.00                 | 9.96                                     | 10.76        | 11.22        | 11.65        | 12.08        | 12.47        |
| 171.2           | 14.00                 | 9.21                                     | 9.97         | 10.43        | 10.88        | 11.33        | 11.73        |
| 173             | 14.00                 | 11.44                                    | 12.06        | 12.39        | 12.71        | 13.00        | 13.29        |
| 175             | 13.80                 | 8.02                                     | 8.95         | 9.48         | 9.99         | 10.48        | 10.91        |
| 177             | 13.80                 | 7.99                                     | 8.92         | 9.45         | 9.95         | 10.43        | 10.87        |
| 177.2           | 11.00                 | 7.60                                     | 8.51         | 9.03         | 9.54         | 10.03        | 10.47        |
| 179             | 11.99                 | 7.48                                     | 8.37         | 8.89         | 9.40         | 9.89         | 10.34        |
| 181             | 11.99                 | 6.98                                     | 7.84         | 8.32         | 8.77         | 9.20         | 9.60         |
| 183.3           | 16.00                 | 14.06                                    | 14.51        | 14.77        | 15.00        | 15.23        | 15.44        |
| 183.4           | 15.50                 | 11.84                                    | 12.41        | 12.75        | 13.08        | 13.47        | 13.83        |
| 185             | 17.80                 | 12.53                                    | 13.64        | 14.37        | 15.12        | 15.93        | 16.78        |
| 189             | 16.80                 | 12.15                                    | 12.90        | 13.43        | 14.00        | 14.63        | 15.24        |
| 191             | 16.80                 | 12.15                                    | 12.90        | 13.44        | 14.01        | 14.64        | 15.26        |
| 193             | 16.80                 | 12.15                                    | 12.91        | 13.44        | 14.02        | 14.65        | 15.27        |
| 195             | 16.80                 | 12.15                                    | 12.91        | 13.44        | 14.02        | 14.65        | 15.26        |
| 199             | 14.80                 | 13.21                                    | 13.69        | 14.00        | 14.35        | 14.65        | <b>14.80</b> |
| 201             | 19.00                 | 18.32                                    | <b>19.00</b> | <b>19.01</b> | <b>19.02</b> | <b>19.04</b> | <b>19.05</b> |
| 201.3           | 19.00                 | 17.03                                    | 18.82        | 18.86        | 18.84        | 18.85        | 18.86        |
| 201.4           | 19.83                 | 16.96                                    | 18.45        | 18.56        | 18.47        | 18.50        | 18.52        |
| 201.5           | 18.33                 | 16.93                                    | <b>18.33</b> | <b>18.34</b> | <b>18.35</b> | <b>18.35</b> | <b>18.36</b> |
| 201.6           | 19.63                 | 16.89                                    | 18.39        | 18.89        | <b>19.63</b> | <b>19.63</b> | <b>19.64</b> |
| 203             | 16.80                 | 12.14                                    | 12.87        | 13.37        | 13.92        | 14.52        | 15.10        |
| 205             | 16.80                 | 12.12                                    | 12.80        | 13.24        | 13.74        | 14.28        | 14.82        |
| 207             | 18.00                 | 14.11                                    | 14.57        | 14.89        | 15.25        | 15.66        | 16.12        |
| 209             | 15.98                 | 14.02                                    | 14.46        | 14.71        | 14.96        | 15.33        | 15.75        |
| 211             | 16.73                 | 13.42                                    | 13.77        | 14.09        | 14.38        | 14.47        | 14.62        |
| 213             | 16.73                 | 13.33                                    | 13.71        | 14.05        | 14.35        | 14.42        | 14.56        |
| 215             | 15.20                 | 12.98                                    | 13.58        | 13.95        | 14.26        | 14.29        | 14.33        |
| 217             | 14.10                 | 12.73                                    | 13.38        | 13.75        | 14.08        | <b>14.10</b> | <b>14.11</b> |
| 219             | 15.00                 | 12.80                                    | 13.50        | 13.90        | 14.21        | 14.24        | 14.27        |
| 221             | 14.50                 | 12.76                                    | 13.45        | 13.82        | 14.14        | 14.16        | 14.16        |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 223             | 15.00                 | 12.71                                    | 13.37        | 13.73        | 14.02        | 14.04        | 14.06        |
| 225             | 14.00                 | 12.71                                    | 13.36        | 13.72        | <b>14.01</b> | <b>14.03</b> | <b>14.05</b> |
| 227             | 14.00                 | 12.69                                    | 13.34        | 13.71        | <b>14.00</b> | <b>14.01</b> | <b>14.03</b> |
| 229             | 14.00                 | 12.68                                    | 13.31        | 13.66        | 13.96        | <b>14.00</b> | <b>14.01</b> |
| 231             | 14.00                 | 12.66                                    | 13.28        | 13.63        | 13.95        | <b>14.00</b> | <b>14.01</b> |
| 233             | 15.00                 | 12.64                                    | 13.26        | 13.60        | 13.93        | 14.06        | 14.08        |
| 235             | 16.00                 | 11.29                                    | 11.85        | 12.15        | 12.41        | 12.67        | 12.76        |
| 237             | 16.00                 | 10.49                                    | 10.94        | 11.24        | 11.46        | 11.53        | 11.59        |
| 239             | 13.90                 | 9.28                                     | 9.85         | 10.18        | 10.46        | 10.65        | 10.80        |
| 241             | 12.80                 | 8.14                                     | 8.53         | 8.86         | 9.21         | 9.50         | 9.81         |
| 243.5           | 18.00                 | 15.09                                    | <b>18.00</b> | <b>18.01</b> | <b>18.02</b> | <b>18.03</b> | <b>18.05</b> |
| 245             | 19.40                 | 13.82                                    | 15.16        | 16.23        | 17.42        | 18.74        | <b>19.40</b> |
| 247             | 19.15                 | 14.83                                    | 15.31        | 15.67        | 16.45        | 17.70        | 18.89        |
| 249             | 18.00                 | 14.79                                    | 15.22        | 15.50        | 15.85        | 16.67        | 17.60        |
| 251             | 16.00                 | 13.77                                    | 14.60        | 15.16        | 15.77        | <b>16.07</b> | <b>16.18</b> |
| 253             | 16.00                 | 12.73                                    | 13.16        | 13.31        | 13.42        | 13.48        | 13.63        |
| 255             | 15.93                 | 11.74                                    | 12.32        | 12.61        | 12.87        | 13.10        | 13.32        |
| 257             | 15.93                 | 11.71                                    | 12.30        | 12.59        | 12.86        | 13.09        | 13.31        |
| 259             | 16.30                 | 13.66                                    | <b>16.30</b> | <b>16.31</b> | <b>16.31</b> | <b>16.32</b> | <b>16.33</b> |
| 261             | 16.40                 | 11.49                                    | 12.13        | 12.41        | 12.68        | 12.93        | 13.16        |
| 263             | 19.05                 | 16.46                                    | 17.64        | 18.03        | 18.60        | 18.73        | 18.82        |
| 263.2           | 17.00                 | 16.64                                    | <b>17.02</b> | <b>17.04</b> | <b>17.05</b> | <b>17.07</b> | <b>17.11</b> |
| 263.3           | 18.00                 | 17.44                                    | <b>18.01</b> | <b>18.01</b> | <b>18.02</b> | <b>18.03</b> | <b>18.04</b> |
| 263.4           | 17.50                 | 16.67                                    | 17.05        | 17.07        | 17.11        | 17.14        | 17.17        |
| 263.5           | 18.01                 | 16.13                                    | 17.01        | 17.22        | 17.56        | 17.65        | 17.71        |
| 263.6           | 18.00                 | 17.41                                    | <b>18.00</b> | <b>18.00</b> | <b>18.01</b> | <b>18.02</b> | <b>18.02</b> |
| 263.7           | 18.00                 | 17.54                                    | <b>18.01</b> | <b>18.01</b> | <b>18.02</b> | <b>18.03</b> | <b>18.05</b> |
| 263.8           | 18.00                 | 17.27                                    | <b>18.00</b> | <b>18.00</b> | <b>18.00</b> | <b>18.00</b> | <b>18.00</b> |
| 263.9           | 18.00                 | <b>18.01</b>                             | <b>18.03</b> | <b>18.04</b> | <b>18.06</b> | <b>18.07</b> | <b>18.09</b> |
| 265             | 15.16                 | 11.37                                    | 12.03        | 12.31        | 12.57        | 12.82        | 13.05        |
| 267             | 15.02                 | 11.27                                    | 11.93        | 12.18        | 12.42        | 12.64        | 12.84        |
| 269             | 15.00                 | 11.20                                    | 11.85        | 12.10        | 12.33        | 12.54        | 12.74        |
| 271             | 13.80                 | 10.52                                    | 11.16        | 11.39        | 11.60        | 11.79        | 11.98        |
| 273             | 14.10                 | 10.03                                    | 10.58        | 10.80        | 10.98        | 11.14        | 11.30        |
| 275             | 13.80                 | 6.78                                     | 7.68         | 8.19         | 8.66         | 9.09         | 9.51         |
| 277             | 17.30                 | 14.90                                    | 15.54        | 15.93        | 16.35        | 16.75        | 17.15        |
| 279             | 11.98                 | 6.54                                     | 7.38         | 7.88         | 8.35         | 8.77         | 9.17         |
| 281             | 11.91                 | 6.31                                     | 7.19         | 7.71         | 8.20         | 8.63         | 9.04         |
| 283             | 10.00                 | 5.62                                     | 6.70         | 7.30         | 7.86         | 8.35         | 8.81         |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |              |              |              |              |
|-----------------|-----------------------|--|-----------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 285             | 10.00                 | 5.07                                     | 6.24      | 6.88         | 7.47         | 7.99         | 8.47         |
| 287             | 10.00                 | 5.00                                     | 6.19      | 6.83         | 7.43         | 7.96         | 8.44         |
| 289             | 10.13                 | 5.94                                     | 7.01      | 7.57         | 8.24         | 8.92         | 9.61         |
| 291             | 10.00                 | 4.88                                     | 6.06      | 6.71         | 7.31         | 7.84         | 8.31         |
| 293             | 10.13                 | 4.95                                     | 6.18      | 6.90         | 7.50         | 8.06         | 8.55         |
| 295             | 16.96                 | 14.78                                    | 15.41     | 16.01        | 16.27        | 16.35        | 16.43        |
| 297             | 16.60                 | 15.10                                    | 15.73     | 16.28        | <b>16.62</b> | <b>16.66</b> | <b>16.71</b> |
| 299             | 17.06                 | 13.29                                    | 15.33     | 16.26        | 16.52        | 16.75        | 16.93        |
| 301             | 15.95                 | 13.09                                    | 15.08     | <b>15.95</b> | <b>15.96</b> | <b>15.98</b> | <b>16.00</b> |
| 303             | 15.50                 | 11.96                                    | 13.54     | 14.72        | 15.49        | <b>15.51</b> | <b>15.52</b> |
| 305             | 16.00                 | 10.64                                    | 11.06     | 11.34        | 11.64        | 11.94        | 12.25        |
| 307             | 16.00                 | 10.60                                    | 10.93     | 11.13        | 11.33        | 11.54        | 11.76        |
| 311             | 18.00                 | 16.28                                    | 16.70     | 16.79        | 17.00        | 17.01        | 17.01        |
| 311.2           | 17.00                 | 16.21                                    | 16.68     | 16.78        | <b>17.00</b> | <b>17.00</b> | <b>17.00</b> |
| 313             | 16.64                 | 14.76                                    | 15.38     | 15.99        | 16.25        | 16.32        | 16.39        |
| 313.2           | 15.50                 | 14.42                                    | 14.88     | 15.32        | <b>15.50</b> | <b>15.51</b> | <b>15.52</b> |
| 313.3           | 15.50                 | 14.14                                    | 14.71     | 15.20        | 15.42        | 15.47        | <b>15.50</b> |
| 313.4           | 15.50                 | 13.73                                    | 14.22     | 14.57        | 14.82        | 14.99        | 15.33        |
| 315             | 16.57                 | 14.85                                    | 15.66     | 16.37        | <b>16.57</b> | <b>16.58</b> | <b>16.59</b> |
| 317             | 16.00                 | 12.14                                    | 15.42     | <b>16.00</b> | <b>16.01</b> | <b>16.02</b> | <b>16.04</b> |
| 319             | 15.25                 | 10.17                                    | 10.64     | 10.83        | 10.98        | 11.08        | 11.17        |
| 321             | 15.25                 | 10.15                                    | 10.63     | 10.82        | 10.97        | 11.06        | 11.16        |
| 323             | 13.00                 | 9.89                                     | 10.37     | 10.58        | 10.75        | 10.86        | 10.96        |
| 325             | 13.00                 | 9.69                                     | 10.19     | 10.41        | 10.60        | 10.73        | 10.83        |
| 327             | 13.00                 | 9.65                                     | 10.12     | 10.33        | 10.50        | 10.62        | 10.72        |
| 329             | 13.30                 | 9.09                                     | 9.55      | 9.76         | 9.92         | 10.05        | 10.16        |
| 331             | 13.30                 | 8.96                                     | 9.41      | 9.61         | 9.77         | 9.89         | 9.98         |
| 333             | 10.00                 | 4.85                                     | 6.03      | 6.68         | 7.28         | 7.81         | 8.28         |
| 335             | 15.00                 | 12.18                                    | 13.53     | 14.82        | <b>15.00</b> | <b>15.01</b> | <b>15.02</b> |
| 335.2           | 14.36                 | 10.72                                    | 11.19     | 11.50        | 11.54        | 11.54        | 11.54        |
| 335.3           | 12.40                 | 9.86                                     | 10.20     | 10.40        | 10.43        | 10.43        | 10.43        |
| 335.4           | 10.47                 | 8.72                                     | 9.18      | 9.56         | 9.63         | 9.62         | 9.62         |
| 335.6           | 10.05                 | 8.60                                     | 8.97      | 9.16         | 9.20         | 9.20         | 9.19         |
| 339             | 10.00                 | 4.81                                     | 5.99      | 6.63         | 7.23         | 7.77         | 8.23         |
| 343             | 8.00                  | 4.67                                     | 5.82      | 6.46         | 7.05         | 7.58         | <b>8.04</b>  |
| 345             | 10.00                 | 4.64                                     | 5.79      | 6.42         | 7.01         | 7.54         | 8.01         |
| 347             | 12.00                 | 6.37                                     | 6.69      | 6.87         | 7.05         | 7.39         | 7.85         |
| 349             | 9.00                  | 4.50                                     | 5.63      | 6.26         | 6.84         | 7.38         | 7.84         |
| 351             | 8.00                  | 4.42                                     | 5.53      | 6.16         | 6.74         | 7.28         | 7.74         |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |            |            |              |              |
|-----------------|-----------------------|--|-----------|------------|------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft) | 25-Yr (ft) | 50-Yr (ft)   | 100-Yr (ft)  |
| 353             | 8.00                  | 4.36                                     | 5.46      | 6.08       | 6.66       | 7.20         | 7.66         |
| 355             | 16.00                 | 11.70                                    | 11.93     | 12.04      | 12.18      | 12.30        | 12.48        |
| 357             | 14.00                 | 11.15                                    | 11.73     | 12.14      | 12.79      | <b>14.00</b> | <b>14.01</b> |
| 359             | 14.63                 | 10.14                                    | 10.69     | 11.05      | 11.47      | 12.31        | 12.57        |
| 361             | 16.00                 | 12.10                                    | 12.46     | 12.65      | 12.83      | 12.99        | 13.14        |
| 363             | 10.00                 | 6.50                                     | 6.81      | 6.97       | 7.12       | 7.25         | 7.61         |
| 365             | 16.00                 | 13.50                                    | 14.56     | 15.18      | 15.84      | <b>16.01</b> | <b>16.02</b> |
| 367             | 14.00                 | 12.26                                    | 12.80     | 13.35      | 13.96      | <b>14.01</b> | <b>14.03</b> |
| 369             | 15.00                 | 12.23                                    | 12.73     | 13.24      | 13.83      | 14.13        | 14.38        |
| 371             | 8.00                  | 4.32                                     | 5.42      | 6.03       | 6.61       | 7.15         | 7.60         |
| 373             | 8.00                  | 4.07                                     | 5.12      | 5.73       | 6.30       | 6.84         | 7.26         |
| 375             | 8.00                  | 4.01                                     | 5.05      | 5.66       | 6.23       | 6.76         | 7.17         |
| 377             | 8.00                  | 4.00                                     | 5.04      | 5.65       | 6.22       | 6.75         | 7.16         |
| 379             | 16.00                 | 12.29                                    | 12.91     | 13.51      | 14.14      | 14.21        | 14.22        |
| 397             | 20.25                 | 14.59                                    | 15.30     | 15.73      | 16.19      | 16.65        | 17.09        |
| 397.2           | 21.83                 | 14.59                                    | 15.30     | 15.73      | 16.18      | 16.65        | 17.09        |
| 397.3           | 20.31                 | 14.59                                    | 15.30     | 15.73      | 16.18      | 16.90        | 17.58        |
| 399             | 20.85                 | 14.85                                    | 15.69     | 16.34      | 17.18      | 18.08        | 18.97        |
| 399.2           | 20.70                 | 14.59                                    | 15.40     | 16.08      | 16.86      | 17.72        | 18.56        |
| 399.3           | 20.13                 | 14.59                                    | 15.30     | 15.73      | 16.48      | 17.32        | 18.08        |
| 399.4           | 22.32                 | 14.59                                    | 15.30     | 15.73      | 16.43      | 17.27        | 18.08        |
| 401             | 19.13                 | 14.57                                    | 15.26     | 15.67      | 16.12      | 16.58        | 17.03        |
| 403             | 20.00                 | 14.59                                    | 15.30     | 15.73      | 16.18      | 16.64        | 17.44        |
| 403.2           | 20.90                 | 14.59                                    | 15.30     | 15.73      | 16.18      | 16.63        | 17.40        |
| 403.3           | 22.00                 | 14.59                                    | 15.30     | 15.73      | 16.18      | 16.63        | 17.24        |
| 405             | 19.13                 | 15.10                                    | 15.86     | 16.31      | 16.74      | 17.17        | 17.59        |
| 407             | 20.13                 | 15.16                                    | 15.90     | 16.35      | 16.78      | 17.19        | 17.62        |
| 409             | 22.13                 | 15.30                                    | 16.04     | 16.88      | 17.85      | 18.93        | 20.14        |
| 411             | 22.13                 | 14.91                                    | 15.41     | 15.81      | 16.30      | 16.85        | 17.42        |
| 413             | 21.13                 | 16.34                                    | 17.72     | 18.46      | 19.16      | 19.77        | 20.17        |
| 415             | 21.13                 | 16.37                                    | 17.70     | 18.44      | 19.14      | 19.77        | 20.17        |
| 417             | 21.13                 | 16.41                                    | 17.69     | 18.38      | 19.01      | 19.74        | 20.18        |
| 419             | 21.13                 | 16.43                                    | 17.66     | 18.34      | 18.98      | 19.73        | 20.18        |
| 421             | 21.13                 | 16.43                                    | 17.67     | 18.34      | 18.98      | 19.74        | 20.18        |
| 423             | 22.13                 | 14.59                                    | 15.30     | 15.72      | 16.16      | 16.61        | 17.05        |
| 425             | 18.00                 | 15.56                                    | 16.22     | 16.59      | 16.94      | 17.26        | 17.57        |
| 427             | 21.20                 | 16.75                                    | 17.60     | 18.27      | 18.95      | 19.75        | 20.18        |
| 429             | 19.13                 | 14.59                                    | 15.30     | 15.73      | 16.17      | 16.63        | 17.07        |
| 431             | 21.13                 | 16.43                                    | 17.56     | 18.24      | 18.92      | 19.73        | 20.17        |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |            |              |              |              |
|-----------------|-----------------------|--|-----------|------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft) | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 433             | 19.13                 | 14.60                                    | 15.31     | 15.77      | 16.28        | 16.73        | 17.18        |
| 435             | 19.13                 | 14.61                                    | 15.45     | 16.00      | 16.52        | 16.99        | 17.57        |
| 437             | 21.13                 | 16.14                                    | 17.29     | 18.04      | 18.80        | 19.66        | 20.12        |
| 439             | 20.13                 | 14.80                                    | 15.68     | 16.26      | 16.78        | 17.35        | 18.02        |
| 441             | 19.13                 | 15.15                                    | 15.76     | 16.20      | 16.58        | 16.87        | 17.14        |
| 443             | 20.13                 | 15.11                                    | 15.71     | 16.14      | 16.51        | 16.80        | 17.08        |
| 445             | 19.13                 | 15.17                                    | 15.73     | 16.16      | 16.57        | 16.94        | 17.27        |
| 447             | 20.00                 | 15.88                                    | 16.29     | 16.52      | 16.74        | 16.95        | 17.19        |
| 449             | 21.13                 | 14.92                                    | 15.47     | 15.84      | 16.21        | 16.55        | 16.88        |
| 451             | 20.00                 | 16.84                                    | 17.26     | 17.53      | 17.79        | 18.08        | 18.43        |
| 453             | 19.13                 | 15.40                                    | 16.41     | 17.05      | 17.71        | 18.36        | 19.03        |
| 455             | 21.13                 | 14.51                                    | 15.19     | 15.58      | 15.95        | 16.30        | 16.64        |
| 457             | 20.00                 | 17.05                                    | 17.69     | 18.05      | 18.40        | 18.75        | 18.92        |
| 459             | 18.80                 | 16.16                                    | 16.95     | 17.46      | 18.01        | 18.44        | 18.64        |
| 461             | 18.80                 | 16.15                                    | 16.93     | 17.45      | 17.99        | 18.38        | 18.58        |
| 463             | 20.00                 | 16.06                                    | 16.87     | 17.42      | 17.97        | 18.34        | 18.54        |
| 465             | 18.00                 | 15.51                                    | 16.57     | 17.22      | 17.83        | <b>18.04</b> | <b>18.13</b> |
| 467             | 18.00                 | 15.21                                    | 15.79     | 16.04      | 16.27        | 16.38        | 16.46        |
| 469             | 20.13                 | 13.01                                    | 13.67     | 14.13      | 14.58        | 15.00        | 15.40        |
| 471             | 18.90                 | 17.14                                    | 17.77     | 18.14      | 18.50        | 18.85        | <b>18.92</b> |
| 473             | 19.00                 | 17.25                                    | 17.85     | 18.20      | 18.55        | 18.90        | <b>19.00</b> |
| 475             | 20.25                 | 15.23                                    | 16.01     | 16.49      | 17.00        | 17.48        | 17.96        |
| 477             | 19.00                 | 18.03                                    | 18.61     | 18.96      | <b>19.02</b> | <b>19.05</b> | <b>19.09</b> |
| 479             | 20.50                 | 17.95                                    | 18.51     | 18.85      | 19.08        | 19.26        | 19.45        |
| 481             | 20.00                 | 16.92                                    | 17.58     | 18.02      | 18.30        | 18.35        | 18.38        |
| 483             | 20.00                 | 16.89                                    | 17.52     | 17.89      | 18.08        | 18.06        | 18.04        |
| 485             | 18.80                 | 17.70                                    | 17.83     | 18.03      | 18.34        | 18.59        | 18.69        |
| 487             | 20.00                 | 16.39                                    | 17.04     | 17.41      | 17.75        | 18.07        | 18.38        |
| 489             | 20.00                 | 16.37                                    | 17.01     | 17.37      | 17.71        | 18.04        | 18.36        |
| 491             | 20.00                 | 16.69                                    | 17.15     | 17.41      | 17.71        | 18.02        | 18.33        |
| 493             | 20.00                 | 15.10                                    | 15.37     | 15.50      | 15.63        | 15.74        | 15.87        |
| 495             | 21.13                 | 16.31                                    | 17.73     | 18.49      | 19.21        | 19.78        | 20.17        |
| 497             | 19.30                 | 14.49                                    | 14.89     | 15.10      | 15.28        | 15.44        | 15.60        |
| 499             | 20.13                 | 16.24                                    | 17.99     | 19.15      | <b>20.13</b> | <b>20.16</b> | <b>20.21</b> |
| 501             | 19.63                 | 14.63                                    | 15.38     | 15.82      | 16.30        | 16.79        | 17.29        |
| 501.2           | 19.63                 | 14.63                                    | 15.38     | 15.82      | 16.30        | 16.79        | 17.29        |
| 503             | 19.63                 | 14.63                                    | 15.38     | 15.82      | 16.30        | 16.79        | 17.29        |
| 505             | 19.63                 | 14.63                                    | 15.37     | 15.81      | 16.28        | 16.77        | 17.25        |
| 505.3           | 18.81                 | 14.74                                    | 15.71     | 16.29      | 16.81        | 17.30        | 17.76        |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 507             | 18.63                 | 14.75                                    | 15.71        | 16.30        | 16.81        | 17.30        | 17.76        |
| 509             | 21.13                 | 15.25                                    | 15.73        | 16.30        | 16.81        | 17.29        | 17.74        |
| 511             | 20.13                 | 18.71                                    | 19.93        | <b>20.13</b> | <b>20.14</b> | <b>20.15</b> | <b>20.16</b> |
| 513             | 19.80                 | 18.69                                    | <b>19.80</b> | <b>19.82</b> | <b>19.85</b> | <b>19.89</b> | <b>19.93</b> |
| 515             | 20.13                 | 18.69                                    | 19.80        | 19.86        | 19.88        | 19.97        | 20.01        |
| 517             | 20.00                 | 18.68                                    | 19.82        | 19.88        | 19.91        | 19.92        | 19.94        |
| 519             | 20.00                 | 18.50                                    | 19.39        | 19.74        | 19.99        | <b>20.00</b> | <b>20.02</b> |
| 521             | 20.00                 | 18.49                                    | 19.38        | 19.73        | 19.96        | <b>20.01</b> | <b>20.02</b> |
| 523             | 19.13                 | 14.68                                    | 15.38        | 15.82        | 16.26        | 16.72        | 17.16        |
| 525             | 19.50                 | 14.63                                    | 15.38        | 15.82        | 16.30        | 16.79        | 17.29        |
| 527             | 21.13                 | 16.03                                    | 16.56        | 16.86        | 17.10        | 17.26        | 17.55        |
| 529             | 19.15                 | 15.23                                    | 15.99        | 16.35        | 16.63        | 16.85        | 17.26        |
| 531             | 20.13                 | 14.59                                    | 15.26        | 15.55        | 15.79        | 16.01        | 16.43        |
| 533             | 19.13                 | 14.56                                    | 15.22        | 15.50        | 15.72        | 15.92        | 16.32        |
| 537             | 19.13                 | 15.02                                    | 15.69        | 16.09        | 16.50        | 16.97        | 17.40        |
| 539             | 20.13                 | 12.31                                    | 13.22        | 13.76        | 14.27        | 14.74        | 15.18        |
| 541             | 17.00                 | 11.54                                    | 12.74        | 13.35        | 13.90        | 14.39        | 14.86        |
| 543             | 16.00                 | 11.37                                    | 12.56        | 13.17        | 13.72        | 14.20        | 14.65        |
| 545             | 16.40                 | 15.21                                    | 15.44        | 15.56        | 15.67        | 15.77        | 15.87        |
| 547             | 15.80                 | 12.69                                    | 12.94        | 13.08        | 13.21        | 13.50        | 13.89        |
| 549             | 15.00                 | 10.43                                    | 11.66        | 12.28        | 12.83        | 13.32        | 13.78        |
| 551             | 14.00                 | 9.88                                     | 11.10        | 11.72        | 12.27        | 12.75        | 13.22        |
| 553             | 12.00                 | 7.31                                     | 8.47         | 9.06         | 9.61         | 10.10        | 10.77        |
| 555             | 14.00                 | 9.56                                     | 10.77        | 11.38        | 11.92        | 12.41        | 12.87        |
| 557             | 19.13                 | 15.08                                    | 15.79        | 16.23        | 16.66        | 17.09        | 17.52        |
| 559             | 18.64                 | 17.93                                    | <b>18.68</b> | <b>18.73</b> | <b>18.78</b> | <b>18.83</b> | <b>18.89</b> |
| 561             | 19.13                 | 17.75                                    | 18.57        | 18.61        | 18.64        | 18.65        | 18.69        |
| 563             | 17.20                 | 15.37                                    | <b>17.20</b> | <b>17.20</b> | <b>17.20</b> | <b>17.22</b> | <b>17.23</b> |
| 565             | 17.80                 | 14.93                                    | 15.60        | 15.65        | 15.50        | 16.24        | 16.03        |
| 567             | 16.42                 | 14.13                                    | 14.40        | 14.40        | 14.38        | 14.48        | 14.48        |
| 569             | 13.00                 | 8.29                                     | 9.45         | 10.01        | 10.53        | 10.99        | 11.51        |
| 571             | 13.90                 | 7.21                                     | 8.35         | 8.93         | 9.48         | 9.97         | 10.66        |
| 573             | 15.10                 | 6.95                                     | 8.14         | 8.74         | 9.30         | 9.81         | 10.54        |
| 577             | 18.00                 | 12.95                                    | 13.30        | 13.52        | 13.75        | 13.99        | 14.30        |
| 579             | 12.00                 | 6.39                                     | 7.62         | 8.26         | 8.85         | 9.38         | 10.23        |
| 581             | 12.00                 | 5.73                                     | 7.07         | 7.76         | 8.38         | 8.95         | 9.95         |
| 583             | 12.00                 | 5.69                                     | 7.03         | 7.72         | 8.34         | 8.91         | 9.92         |
| 585             | 15.00                 | 11.93                                    | 12.21        | 12.37        | 12.51        | 12.65        | 12.78        |
| 587             | 12.00                 | 5.62                                     | 6.97         | 7.66         | 8.29         | 8.86         | 9.89         |



**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 589             | 15.50                 | 11.12                                    | 12.08        | 13.34        | 14.22        | 14.84        | <b>15.50</b> |
| 591             | 18.13                 | 14.78                                    | 14.91        | 14.97        | 15.03        | 15.09        | 15.56        |
| 593             | 18.00                 | 13.43                                    | 14.19        | 14.63        | 15.18        | 15.81        | 16.48        |
| 595             | 13.60                 | 8.74                                     | 9.01         | 9.18         | 9.42         | 9.85         | 10.75        |
| 597             | 16.50                 | 12.58                                    | 12.90        | 13.61        | 14.33        | 14.94        | 15.61        |
| 599             | 20.00                 | 14.11                                    | 14.51        | 14.76        | 15.00        | 15.26        | 15.56        |
| 601             | 12.00                 | 5.38                                     | 6.74         | 7.45         | 8.08         | 8.66         | 9.76         |
| 603             | 15.50                 | 11.00                                    | 12.00        | 13.29        | 14.16        | 14.78        | 15.44        |
| 605             | 10.40                 | 4.79                                     | 6.13         | 6.85         | 7.50         | 8.10         | 9.41         |
| 607             | 10.00                 | 4.76                                     | 6.10         | 6.81         | 7.46         | 8.06         | 9.39         |
| 609             | 13.60                 | 9.19                                     | 9.77         | 10.10        | 10.43        | 10.96        | 11.80        |
| 611             | 19.55                 | 15.40                                    | 17.84        | <b>19.55</b> | <b>19.58</b> | <b>19.61</b> | <b>19.65</b> |
| 613             | 20.35                 | 14.77                                    | 17.51        | 19.25        | 19.52        | 19.62        | 19.78        |
| 615             | 19.07                 | 15.02                                    | 16.94        | 18.86        | <b>19.08</b> | <b>19.09</b> | <b>19.11</b> |
| 617             | 20.65                 | 14.30                                    | 16.52        | 18.18        | 18.58        | 18.74        | 18.86        |
| 619             | 20.15                 | 14.20                                    | 16.33        | 17.95        | 18.38        | 18.58        | 18.72        |
| 621             | 19.13                 | 15.15                                    | 15.81        | 16.22        | 16.64        | 17.05        | 17.42        |
| 623             | 19.13                 | 15.16                                    | 15.76        | 16.20        | 16.57        | 16.86        | 17.15        |
| 625             | 19.86                 | 16.42                                    | 17.79        | 19.83        | <b>19.87</b> | <b>19.88</b> | <b>19.90</b> |
| 627             | 20.10                 | 15.32                                    | 16.20        | 17.67        | 18.97        | 19.87        | <b>20.10</b> |
| 629             | 17.25                 | 12.54                                    | 13.72        | 14.54        | 15.65        | 16.51        | 17.11        |
| 631             | 16.90                 | 14.82                                    | <b>16.90</b> | <b>16.91</b> | <b>16.91</b> | <b>16.92</b> | <b>16.93</b> |
| 633             | 20.30                 | 13.58                                    | 15.18        | 16.51        | 16.90        | 17.16        | 17.41        |
| 635             | 16.80                 | 14.68                                    | <b>16.80</b> | <b>16.81</b> | <b>16.83</b> | <b>16.85</b> | <b>16.88</b> |
| 637             | 21.13                 | 15.69                                    | 16.14        | 16.38        | 16.80        | 17.26        | 17.69        |
| 639             | 17.30                 | 13.03                                    | 14.20        | 14.95        | 15.45        | 15.91        | 16.07        |
| 641             | 16.00                 | 13.02                                    | 14.14        | 14.85        | 15.38        | 15.86        | <b>16.03</b> |
| 643             | 19.63                 | 15.54                                    | 16.10        | 16.18        | 16.05        | 16.54        | 16.54        |
| 645             | 17.48                 | 12.53                                    | 13.52        | 14.13        | 14.54        | 14.92        | 15.29        |
| 647             | 18.43                 | 11.32                                    | 12.20        | 12.64        | 13.02        | 13.36        | 13.72        |
| 649             | 18.40                 | 11.29                                    | 12.18        | 12.62        | 13.01        | 13.35        | 13.71        |
| 651             | 16.80                 | 11.04                                    | 11.99        | 12.47        | 12.89        | 13.26        | 13.64        |
| 653             | 16.30                 | 10.32                                    | 11.02        | 11.30        | 11.51        | 11.68        | 11.83        |
| 655             | 16.00                 | 10.00                                    | 10.71        | 11.01        | 11.23        | 11.41        | 11.58        |
| 657             | 15.80                 | 9.37                                     | 9.92         | 10.13        | 10.28        | 10.40        | 10.53        |
| 659             | 12.00                 | 7.66                                     | 8.01         | 8.40         | 8.94         | 9.64         | 10.70        |
| 661             | 10.00                 | 4.72                                     | 6.04         | 6.75         | 7.40         | 8.00         | 9.35         |
| 663             | 12.00                 | 5.85                                     | 7.18         | 7.86         | 8.48         | 9.05         | 10.02        |
| 665             | 17.00                 | 11.46                                    | 12.66        | 13.28        | 13.82        | 14.32        | 14.78        |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |              |              |              |              |
|-----------------|-----------------------|--|-----------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 667             | 10.00                 | 4.63                                     | 5.93      | 6.63         | 7.28         | 7.87         | 9.28         |
| 669             | 10.00                 | 4.96                                     | 6.33      | 7.05         | 7.70         | 8.29         | 9.53         |
| 671             | 22.80                 | 18.11                                    | 18.55     | 18.83        | 19.13        | 19.44        | 19.78        |
| 673             | 21.30                 | 18.11                                    | 18.54     | 18.81        | 19.09        | 19.39        | 19.70        |
| 675             | 23.70                 | 17.41                                    | 18.08     | 18.56        | 18.95        | 19.35        | 19.76        |
| 679             | 23.00                 | 17.39                                    | 18.06     | 18.55        | 18.95        | 19.35        | 19.84        |
| 681             | 18.65                 | 17.88                                    | 18.62     | <b>18.66</b> | <b>18.69</b> | <b>18.72</b> | <b>18.76</b> |
| 683             | 21.00                 | 17.18                                    | 18.00     | 18.50        | 18.94        | 19.30        | 19.72        |
| 685             | 20.50                 | 17.11                                    | 17.98     | 18.48        | 18.93        | 19.28        | 19.73        |
| 687             | 20.50                 | 17.09                                    | 17.97     | 18.47        | 18.91        | 19.24        | 19.70        |
| 689             | 21.50                 | 17.09                                    | 17.97     | 18.46        | 18.91        | 19.23        | 19.70        |
| 691             | 21.50                 | 17.07                                    | 17.96     | 18.43        | 18.87        | 19.18        | 19.66        |
| 695             | 20.00                 | 17.03                                    | 17.93     | 18.39        | 18.84        | 19.17        | 19.65        |
| 697             | 20.00                 | 16.98                                    | 17.81     | 18.20        | 18.54        | 18.78        | 19.20        |
| 699             | 20.00                 | 16.92                                    | 17.77     | 18.19        | 18.45        | 18.74        | 19.17        |
| 703             | 20.00                 | 17.00                                    | 17.83     | 18.27        | 18.53        | 18.78        | 19.23        |
| 705             | 19.90                 | 16.92                                    | 17.80     | 18.25        | 18.42        | 18.73        | 19.16        |
| 707             | 20.36                 | 16.93                                    | 17.83     | 18.32        | 18.44        | 18.72        | 19.16        |
| 709             | 20.30                 | 15.56                                    | 16.36     | 16.82        | 17.36        | 17.72        | 17.95        |
| 711             | 21.13                 | 14.82                                    | 15.30     | 15.67        | 16.02        | 16.32        | 16.62        |
| 713             | 22.13                 | 14.90                                    | 15.31     | 15.68        | 16.06        | 16.38        | 16.64        |
| 715             | 20.00                 | 16.10                                    | 17.03     | 17.95        | 19.26        | <b>20.00</b> | <b>20.02</b> |
| 719             | 20.80                 | 15.36                                    | 16.15     | 16.62        | 17.26        | 17.67        | 17.89        |
| 725             | 22.00                 | 16.45                                    | 17.47     | 18.80        | 20.75        | <b>22.00</b> | <b>22.01</b> |
| 729             | 19.80                 | 15.07                                    | 15.91     | 16.43        | 17.12        | 17.54        | 17.77        |
| 731             | 19.76                 | 14.96                                    | 15.83     | 16.36        | 17.06        | 17.49        | 17.72        |
| 735             | 19.76                 | 14.82                                    | 15.67     | 16.17        | 16.70        | 17.01        | 17.18        |
| 737             | 19.30                 | 14.73                                    | 15.60     | 16.11        | 16.64        | 16.95        | 17.12        |
| 739             | 17.30                 | 13.15                                    | 14.57     | 15.58        | 16.71        | <b>17.30</b> | <b>17.31</b> |
| 741             | 19.30                 | 14.21                                    | 15.06     | 15.56        | 16.07        | 16.37        | 16.53        |
| 743             | 12.00                 | 8.22                                     | 8.59      | 8.81         | 9.03         | 9.25         | 9.47         |
| 745             | 8.80                  | 6.24                                     | 6.61      | 6.81         | 6.99         | 7.16         | 7.43         |
| 747             | 16.70                 | 13.03                                    | 13.76     | 14.18        | 14.60        | 14.92        | 15.03        |
| 749             | 16.40                 | 10.84                                    | 11.43     | 11.74        | 12.03        | 12.33        | 12.42        |
| 755             | 8.00                  | 4.51                                     | 5.78      | 6.47         | 7.11         | 7.71         | <b>8.00</b>  |
| 759             | 18.00                 | 15.26                                    | 15.63     | 15.85        | 16.07        | 16.31        | 16.57        |
| 761             | 16.30                 | 14.18                                    | 14.49     | 14.65        | 14.80        | 14.95        | 15.09        |
| 761.2           | 16.00                 | 13.37                                    | 13.69     | 13.87        | 14.03        | 14.19        | 14.34        |
| 763             | 15.00                 | 12.61                                    | 12.96     | 13.16        | 13.34        | 13.51        | 13.68        |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 767             | 14.90                 | 10.00                                    | 10.40        | 10.63        | 10.85        | 11.07        | 11.28        |
| 771             | 11.56                 | 9.06                                     | 9.52         | 9.80         | 10.10        | 10.37        | 10.51        |
| 773             | 11.46                 | 8.15                                     | 8.40         | 8.54         | 8.62         | 8.75         | 8.92         |
| 777             | 8.00                  | 4.41                                     | 5.65         | 6.34         | 6.97         | 7.55         | 7.86         |
| 779             | 10.00                 | 4.22                                     | 5.40         | 6.07         | 6.68         | 7.25         | 7.58         |
| 781             | 8.00                  | 4.20                                     | 5.38         | 6.04         | 6.65         | 7.22         | 7.55         |
| 783             | 8.00                  | 4.12                                     | 5.26         | 5.91         | 6.51         | 7.07         | 7.41         |
| 791             | 20.50                 | 17.54                                    | 19.50        | <b>20.50</b> | <b>20.52</b> | <b>20.55</b> | <b>20.58</b> |
| 793             | 22.00                 | 16.00                                    | 16.96        | 17.36        | 17.51        | 17.73        | 17.97        |
| 795             | 21.80                 | 15.10                                    | 15.80        | 16.09        | 16.21        | 16.33        | 16.46        |
| 797             | 22.00                 | 14.81                                    | 15.55        | 15.86        | 15.99        | 16.14        | 16.29        |
| 799             | 22.00                 | 14.64                                    | 15.32        | 15.61        | 15.75        | 15.89        | 16.02        |
| 801             | 19.20                 | 13.28                                    | 14.15        | 14.48        | 14.62        | 14.74        | 14.81        |
| 803             | 17.80                 | 8.62                                     | 10.02        | 10.92        | 11.86        | 12.82        | 13.78        |
| 805             | 14.30                 | 7.71                                     | 8.24         | 8.57         | 8.97         | 9.53         | 10.30        |
| 807             | 18.40                 | 11.40                                    | 12.19        | 12.57        | 12.95        | 13.58        | 14.23        |
| 815             | 8.00                  | 3.91                                     | 4.96         | 5.56         | 6.13         | 6.66         | 7.02         |
| 819             | 8.00                  | 3.85                                     | 4.86         | 5.45         | 6.00         | 6.52         | 6.89         |
| 821             | 8.00                  | 3.52                                     | 4.38         | 4.89         | 5.38         | 5.85         | 6.19         |
| 823             | 21.00                 | 17.25                                    | 17.89        | 18.31        | 18.76        | 19.23        | 19.73        |
| 825             | 19.80                 | 16.38                                    | 16.48        | 16.54        | 16.59        | 16.63        | 16.68        |
| 827             | 10.00                 | 6.15                                     | 6.26         | 6.38         | 6.52         | 6.69         | 6.90         |
| 829             | 7.00                  | 3.37                                     | 4.15         | 4.63         | 5.09         | 5.53         | 5.86         |
| 831             | 8.00                  | 3.35                                     | 4.12         | 4.59         | 5.05         | 5.48         | 5.81         |
| 835             | 19.30                 | 12.59                                    | 13.44        | 13.99        | 14.54        | 15.10        | 15.68        |
| 837             | 19.90                 | 12.55                                    | 13.34        | 13.83        | 14.32        | 14.82        | 15.34        |
| 839             | 18.80                 | 15.27                                    | 15.85        | 16.15        | 16.44        | 16.71        | 16.98        |
| 841             | 19.50                 | 17.85                                    | 18.78        | 19.26        | <b>19.51</b> | <b>19.58</b> | <b>19.67</b> |
| 843             | 19.80                 | 13.49                                    | 14.18        | 14.60        | 15.04        | 15.53        | 16.04        |
| 847             | 18.00                 | 14.02                                    | 14.65        | 15.07        | 15.52        | 15.99        | 16.48        |
| 849             | 20.80                 | 14.03                                    | 14.68        | 15.11        | 15.55        | 16.01        | 16.50        |
| 851             | 18.00                 | 14.02                                    | 14.63        | 15.03        | 15.43        | 15.84        | 16.28        |
| 853             | 19.20                 | 17.84                                    | 18.77        | <b>19.24</b> | <b>19.37</b> | <b>19.49</b> | <b>19.59</b> |
| 855             | 19.80                 | 17.84                                    | 18.77        | 19.24        | 19.46        | 19.56        | 19.65        |
| 859             | 18.80                 | 13.57                                    | 14.18        | 14.52        | 14.84        | 15.15        | 15.47        |
| 863             | 20.00                 | 13.48                                    | 14.12        | 14.46        | 14.79        | 15.11        | 15.43        |
| 865             | 18.48                 | 13.99                                    | 14.85        | 15.35        | 15.87        | 16.42        | 17.01        |
| 869             | 20.00                 | <b>20.01</b>                             | <b>20.03</b> | <b>20.04</b> | <b>20.05</b> | <b>20.08</b> | <b>20.10</b> |
| 871             | 19.00                 | 17.99                                    | 18.11        | 18.42        | 18.75        | 18.78        | 18.78        |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 873             | 18.60                 | 17.43                                    | 17.93        | 18.31        | <b>18.60</b> | <b>18.61</b> | <b>18.62</b> |
| 875             | 18.60                 | 17.12                                    | 17.84        | 18.25        | 18.58        | <b>18.60</b> | <b>18.60</b> |
| 877             | 17.00                 | 14.37                                    | 14.68        | 14.96        | 15.22        | 15.50        | 15.78        |
| 879             | 18.00                 | 13.88                                    | 14.51        | 14.85        | 15.14        | 15.43        | 15.71        |
| 881             | 16.30                 | 13.27                                    | 13.90        | 14.24        | 14.56        | 14.88        | 15.19        |
| 885             | 16.50                 | 13.20                                    | 13.83        | 14.17        | 14.49        | 14.82        | 15.12        |
| 887             | 23.50                 | 18.94                                    | 19.30        | 19.54        | 19.79        | 20.06        | 20.35        |
| 889             | 15.90                 | 12.24                                    | 12.92        | 13.32        | 13.80        | 14.23        | 14.41        |
| 891             | 13.90                 | 11.58                                    | 12.41        | 13.00        | 13.58        | <b>13.92</b> | <b>13.97</b> |
| 893             | 20.60                 | 19.49                                    | 19.94        | 20.26        | <b>20.60</b> | <b>20.60</b> | <b>20.61</b> |
| 895             | 16.00                 | 11.28                                    | 12.18        | 12.83        | 13.41        | 13.79        | 13.84        |
| 897             | 16.00                 | 11.16                                    | 12.03        | 12.68        | 13.26        | 13.65        | 13.70        |
| 899             | 21.00                 | 19.26                                    | 19.78        | 20.15        | 20.54        | 20.61        | 20.92        |
| 901             | 20.50                 | 18.87                                    | 19.06        | 19.26        | 19.55        | 19.90        | 20.02        |
| 903             | 20.00                 | 17.83                                    | 18.74        | 19.25        | 19.53        | 19.87        | <b>20.00</b> |
| 905             | 16.00                 | 11.96                                    | 12.55        | 12.91        | 13.29        | 13.70        | 14.16        |
| 905.1           | 16.05                 | 11.93                                    | 12.51        | 12.88        | 13.26        | 13.67        | 14.13        |
| 907             | 20.00                 | <b>20.04</b>                             | <b>20.07</b> | <b>20.10</b> | <b>20.13</b> | <b>20.17</b> | <b>20.21</b> |
| 909             | 20.00                 | 18.87                                    | 18.94        | 19.33        | 19.54        | 19.67        | 19.82        |
| 911             | 20.00                 | 17.99                                    | 18.87        | 19.32        | 19.53        | 19.67        | 19.81        |
| 913             | 19.80                 | 17.83                                    | 18.74        | 19.23        | 19.46        | 19.62        | 19.77        |
| 915             | 16.00                 | 11.89                                    | 12.47        | 12.84        | 13.22        | 13.64        | 14.10        |
| 915.2           | 15.05                 | 11.56                                    | 12.14        | 12.50        | 12.88        | 13.29        | 13.67        |
| 915.3           | 15.20                 | 11.00                                    | 11.54        | 11.90        | 12.31        | 12.71        | 12.96        |
| 915.4           | 15.30                 | 10.60                                    | 11.10        | 11.47        | 11.92        | 12.32        | 12.51        |
| 915.5           | 14.00                 | 9.82                                     | 10.48        | 10.92        | 11.45        | 11.87        | 12.03        |
| 915.6           | 14.50                 | 9.64                                     | 10.30        | 10.70        | 11.08        | 11.44        | 11.60        |
| 915.7           | 15.00                 | 9.54                                     | 10.20        | 10.58        | 10.92        | 11.23        | 11.38        |
| 915.8           | 14.37                 | 9.16                                     | 9.83         | 10.20        | 10.55        | 10.87        | 11.03        |
| 915.9           | 13.85                 | 9.02                                     | 9.70         | 10.03        | 10.33        | 10.56        | 10.71        |
| 917             | 19.00                 | 16.80                                    | 17.21        | 17.41        | 17.57        | 17.75        | 17.95        |
| 919             | 18.50                 | 16.55                                    | 16.95        | 17.15        | 17.32        | 17.48        | 17.63        |
| 921             | 18.00                 | 15.04                                    | 15.51        | 15.75        | 15.96        | 16.19        | 16.40        |
| 923             | 16.00                 | 14.22                                    | 14.74        | 15.03        | 15.31        | 15.62        | 15.84        |
| 925             | 16.00                 | 12.50                                    | 13.29        | 13.73        | 14.15        | 14.56        | 14.56        |
| 927             | 15.00                 | 11.52                                    | 11.85        | 12.02        | 12.19        | 12.32        | 12.58        |
| 929             | 14.65                 | 8.89                                     | 9.56         | 9.88         | 10.17        | 10.41        | 10.56        |
| 929.2           | 12.70                 | 8.61                                     | 9.23         | 9.51         | 9.78         | 9.99         | 10.15        |
| 929.3           | 11.00                 | 8.54                                     | 9.15         | 9.41         | 9.68         | 9.88         | 10.04        |

**Table A-1. Existing Conditions Maximum Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |              |              |              |              |
|-----------------|-----------------------|--|-----------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 935             | 16.00                 | 10.73                                    | 10.87     | 10.92        | 10.96        | 10.98        | 11.03        |
| 937             | 14.00                 | 7.90                                     | 8.63      | 9.26         | 9.84         | 10.38        | 10.90        |
| 939             | 10.00                 | 7.79                                     | 8.43      | 8.73         | 9.03         | 9.30         | 9.52         |
| 941             | 10.00                 | 7.78                                     | 8.42      | 8.72         | 9.03         | 9.30         | 9.52         |
| 943             | 10.19                 | 7.21                                     | 7.61      | 8.53         | 9.68         | <b>10.19</b> | <b>10.19</b> |
| 945             | 9.00                  | 6.41                                     | 7.11      | 7.46         | 7.87         | 8.36         | 8.74         |
| 947             | 9.00                  | 5.52                                     | 6.19      | 6.61         | 7.22         | 7.72         | 8.14         |
| 949             | 9.00                  | 5.44                                     | 6.07      | 6.44         | 6.93         | 7.36         | 7.74         |
| 951             | 12.70                 | 7.42                                     | 7.69      | 7.84         | 7.99         | 8.14         | 8.29         |
| 953             | 6.00                  | 4.37                                     | 4.81      | 5.01         | 5.19         | 5.34         | 5.44         |
| 955             | 6.00                  | 3.36                                     | 3.81      | 4.02         | 4.19         | 4.49         | 5.04         |
| 957             | 5.50                  | 2.97                                     | 3.44      | 3.74         | 4.05         | 4.37         | 5.00         |
| 959             | 16.80                 | 12.82                                    | 15.95     | <b>16.81</b> | <b>16.82</b> | <b>16.84</b> | <b>16.86</b> |
| 961             | 15.91                 | 12.28                                    | 14.77     | 15.83        | <b>15.91</b> | <b>15.92</b> | <b>15.93</b> |
| 963             | 13.20                 | 9.76                                     | 10.09     | 10.20        | 10.22        | 10.22        | 10.22        |
| 965             | 11.13                 | 6.95                                     | 7.35      | 7.48         | 7.53         | 7.55         | 7.55         |
| 967             | 6.00                  | 3.14                                     | 3.54      | 3.88         | 4.22         | 4.55         | 5.05         |
| 969             | 6.00                  | 3.02                                     | 3.54      | 3.88         | 4.22         | 4.55         | 5.05         |
| 971             | 6.00                  | 2.97                                     | 3.44      | 3.74         | 4.04         | 4.37         | 5.00         |
| 975             | 5.20                  | 3.45                                     | 4.13      | 4.53         | 4.92         | <b>5.21</b>  | <b>5.23</b>  |
| 981             | 5.00                  | 2.91                                     | 3.32      | 3.60         | 3.88         | 4.25         | 4.89         |
| 983             | 5.00                  | 2.87                                     | 3.28      | 3.55         | 3.83         | 4.19         | 4.84         |
| 985             | 5.00                  | 2.85                                     | 3.25      | 3.52         | 3.79         | 4.14         | 4.76         |
| 987             | 4.00                  | 2.32                                     | 2.35      | 2.38         | 2.43         | 2.49         | 2.57         |
| 989             | 7.97                  | 3.93                                     | 5.49      | 7.03         | <b>7.97</b>  | <b>7.99</b>  | <b>8.01</b>  |
| 991             | 4.30                  | 3.19                                     | 3.77      | 4.13         | <b>4.30</b>  | <b>4.31</b>  | <b>4.32</b>  |
| 997             | 4.00                  | 2.30                                     | 2.30      | 2.31         | 2.31         | 2.31         | 2.32         |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 101             | 16.50                 | 14.51                                    | 15.01        | 15.33        | 15.78        | 16.20        | 16.34        |
| 103             | 16.50                 | 14.09                                    | 14.56        | 14.89        | 15.27        | 15.70        | 15.95        |
| 105             | 16.50                 | 14.07                                    | 14.54        | 14.87        | 15.24        | 15.65        | 15.90        |
| 107             | 16.50                 | 14.01                                    | 14.47        | 14.80        | 15.17        | 15.59        | 15.86        |
| 109             | 16.10                 | 13.91                                    | 14.30        | 14.60        | 14.99        | 15.41        | 15.71        |
| 111             | 15.80                 | 10.49                                    | 11.69        | 13.18        | 14.93        | <b>15.80</b> | <b>15.81</b> |
| 111.2           | 12.90                 | 9.85                                     | 10.86        | 11.50        | 12.31        | <b>12.90</b> | <b>12.92</b> |
| 113             | 17.00                 | 13.74                                    | 14.20        | 14.54        | 14.91        | 15.34        | 15.66        |
| 115             | 17.00                 | 13.61                                    | 14.19        | 14.53        | 14.88        | 15.32        | 15.65        |
| 117             | 16.10                 | 13.32                                    | 13.96        | 14.34        | 14.72        | 15.15        | 15.63        |
| 119             | 16.10                 | 13.32                                    | 13.96        | 14.34        | 14.72        | 15.14        | 15.54        |
| 121             | 16.70                 | 13.64                                    | 14.29        | 14.64        | 14.97        | 15.29        | 15.60        |
| 123             | 19.80                 | 19.36                                    | 19.77        | <b>19.80</b> | <b>19.81</b> | <b>19.82</b> | <b>19.83</b> |
| 125             | 19.50                 | 18.17                                    | 18.95        | 19.11        | 19.12        | 19.12        | 19.14        |
| 127             | 19.50                 | 17.83                                    | 18.08        | 18.12        | 18.12        | 18.13        | 18.14        |
| 129             | 17.80                 | 17.66                                    | <b>17.80</b> | <b>17.81</b> | <b>17.81</b> | <b>17.82</b> | <b>17.84</b> |
| 131             | 17.80                 | 17.62                                    | 17.75        | 17.75        | 17.75        | 17.76        | 17.78        |
| 133             | 18.50                 | 16.61                                    | 16.95        | 17.14        | 17.34        | 17.54        | 17.77        |
| 135             | 18.45                 | 16.58                                    | 16.91        | 17.09        | 17.27        | 17.45        | 17.63        |
| 137             | 17.80                 | 16.46                                    | 16.77        | 16.95        | 17.13        | 17.31        | 17.49        |
| 139             | 17.60                 | 15.81                                    | 16.14        | 16.32        | 16.52        | 16.76        | 17.02        |
| 141             | 16.90                 | 15.30                                    | 15.78        | 16.06        | 16.33        | 16.66        | <b>16.91</b> |
| 141.2           | 17.40                 | 13.29                                    | 14.41        | 15.53        | 16.07        | 16.31        | 16.52        |
| 143             | 17.30                 | 14.93                                    | 15.48        | 15.79        | 16.09        | 16.39        | 16.68        |
| 145             | 16.35                 | 13.99                                    | 14.70        | 15.10        | 15.51        | 15.94        | 16.09        |
| 147             | 16.80                 | 14.76                                    | 15.31        | 15.64        | 15.96        | 16.28        | 16.59        |
| 149             | 18.50                 | 16.83                                    | 17.45        | 17.79        | 18.10        | 18.39        | <b>18.51</b> |
| 151             | 15.90                 | 13.93                                    | 14.63        | 15.03        | 15.44        | 15.88        | <b>15.97</b> |
| 153             | 17.60                 | 13.73                                    | 14.39        | 14.79        | 15.23        | 15.69        | 15.82        |
| 155             | 17.60                 | 13.68                                    | 14.31        | 14.68        | 15.06        | 15.49        | 15.64        |
| 157             | 15.80                 | 13.19                                    | 13.84        | 14.24        | 14.62        | 15.05        | 15.29        |
| 159             | 16.00                 | 14.65                                    | 14.90        | 15.07        | 15.31        | 15.54        | 15.77        |
| 159.2           | 16.90                 | 12.89                                    | 13.96        | 14.76        | 15.17        | 15.39        | 15.61        |
| 159.3           | 16.00                 | 15.44                                    | 15.76        | 15.95        | <b>16.00</b> | <b>16.00</b> | <b>16.01</b> |
| 161             | 15.20                 | 12.46                                    | 13.19        | 13.65        | 14.06        | 14.47        | 14.76        |
| 163             | 16.00                 | 11.51                                    | 12.45        | 12.98        | 13.46        | 13.94        | 14.27        |
| 165             | 17.50                 | 15.83                                    | <b>17.50</b> | <b>17.51</b> | <b>17.51</b> | <b>17.52</b> | <b>17.53</b> |
| 165.2           | 15.40                 | 14.65                                    | 15.18        | <b>15.40</b> | <b>15.41</b> | <b>15.42</b> | <b>15.43</b> |
| 165.3           | 15.84                 | 12.66                                    | 13.69        | 14.41        | 14.72        | 14.93        | 15.12        |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 165.8           | 16.00                 | 11.66                                    | 12.43        | 12.79        | 12.93        | 13.18        | 13.33        |
| 167             | 15.30                 | 10.54                                    | 11.32        | 11.64        | 11.72        | 12.04        | 12.20        |
| 167.2           | 15.00                 | 9.60                                     | 10.31        | 11.00        | 11.59        | 12.02        | 12.19        |
| 167.3           | 14.00                 | 8.50                                     | 9.75         | 10.69        | 11.41        | 11.90        | 12.08        |
| 169             | 15.00                 | 11.75                                    | 12.54        | 13.00        | 13.50        | 13.97        | 14.17        |
| 171             | 14.00                 | 10.68                                    | 11.69        | 12.25        | 12.78        | 13.24        | 13.51        |
| 171.2           | 14.00                 | 9.82                                     | 10.79        | 11.36        | 11.89        | 12.37        | 12.58        |
| 173             | 14.00                 | 11.36                                    | 12.25        | 12.75        | 13.33        | 13.85        | <b>14.02</b> |
| 175             | 13.80                 | 8.60                                     | 9.75         | 10.38        | 10.96        | 11.46        | 11.61        |
| 177             | 13.80                 | 8.56                                     | 9.70         | 10.33        | 10.91        | 11.40        | 11.55        |
| 177.2           | 11.00                 | 8.18                                     | 9.34         | 9.97         | 10.55        | <b>11.01</b> | <b>11.16</b> |
| 179             | 11.99                 | 8.04                                     | 9.19         | 9.82         | 10.41        | 10.87        | 10.96        |
| 181             | 11.99                 | 7.48                                     | 8.48         | 9.02         | 9.51         | 9.95         | 10.11        |
| 183             | 16.00                 | 14.33                                    | 15.04        | 15.44        | 15.82        | <b>16.01</b> | <b>16.03</b> |
| 183.2           | 18.50                 | 14.24                                    | 14.83        | 15.17        | 15.50        | 15.82        | 16.02        |
| 183.3           | 16.00                 | 14.23                                    | 14.82        | 15.17        | 15.49        | 15.81        | <b>16.00</b> |
| 183.4           | 15.50                 | 11.91                                    | 12.69        | 13.20        | 13.84        | 14.47        | 14.72        |
| 183.5           | 16.20                 | 14.02                                    | 15.43        | <b>16.20</b> | <b>16.21</b> | <b>16.23</b> | <b>16.25</b> |
| 185             | 17.80                 | 12.53                                    | 13.64        | 14.37        | 15.12        | 15.93        | 16.79        |
| 187             | 15.95                 | 12.87                                    | 13.26        | 13.66        | 13.89        | 14.11        | 14.32        |
| 187.2           | 17.75                 | 12.87                                    | 13.25        | 13.65        | 13.88        | 14.10        | 14.29        |
| 187.3           | 15.47                 | 12.36                                    | 13.23        | 13.64        | 13.87        | 14.08        | 14.28        |
| 189             | 16.80                 | 12.15                                    | 12.90        | 13.43        | 14.03        | 14.63        | 15.25        |
| 191             | 16.80                 | 12.15                                    | 12.91        | 13.44        | 14.04        | 14.64        | 15.26        |
| 193             | 16.80                 | 12.15                                    | 12.91        | 13.44        | 14.05        | 14.65        | 15.27        |
| 195             | 16.80                 | 12.15                                    | 12.91        | 13.44        | 14.04        | 14.65        | 15.27        |
| 199             | 14.80                 | 13.21                                    | 13.69        | 14.00        | 14.36        | 14.65        | <b>14.80</b> |
| 201             | 19.00                 | 18.30                                    | <b>19.00</b> | <b>19.01</b> | <b>19.02</b> | <b>19.04</b> | <b>19.05</b> |
| 201.3           | 19.00                 | 16.86                                    | 18.26        | 18.83        | 18.85        | 18.86        | 18.86        |
| 201.4           | 19.83                 | 16.77                                    | 17.61        | 18.46        | 18.52        | 18.55        | 18.57        |
| 201.5           | 18.33                 | 16.74                                    | 17.55        | <b>18.33</b> | <b>18.34</b> | <b>18.34</b> | <b>18.35</b> |
| 201.6           | 19.63                 | 16.71                                    | 17.50        | 18.29        | 18.55        | 19.13        | <b>19.63</b> |
| 203             | 16.80                 | 12.14                                    | 12.87        | 13.38        | 13.94        | 14.52        | 15.11        |
| 205             | 16.80                 | 12.12                                    | 12.80        | 13.25        | 13.76        | 14.29        | 14.82        |
| 207             | 18.00                 | 14.23                                    | 14.74        | 15.09        | 15.50        | 15.93        | 16.41        |
| 209             | 15.98                 | 14.14                                    | 14.60        | 14.85        | 15.19        | 15.55        | <b>15.98</b> |
| 211             | 16.73                 | 13.50                                    | 13.85        | 14.16        | 14.43        | 14.55        | 14.70        |
| 213             | 16.73                 | 13.41                                    | 13.77        | 14.11        | 14.39        | 14.50        | 14.64        |
| 215             | 15.20                 | 13.07                                    | 13.61        | 13.99        | 14.28        | 14.31        | 14.36        |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 217             | 14.10                 | 12.74                                    | 13.39        | 13.76        | 14.09        | <b>14.10</b> | <b>14.11</b> |
| 219             | 15.00                 | 12.82                                    | 13.52        | 13.92        | 14.22        | 14.25        | 14.29        |
| 221             | 14.50                 | 12.78                                    | 13.47        | 13.84        | 14.15        | 14.16        | 14.17        |
| 223             | 15.00                 | 12.72                                    | 13.38        | 13.75        | 14.03        | 14.04        | 14.06        |
| 225             | 14.00                 | 12.71                                    | 13.37        | 13.73        | <b>14.01</b> | <b>14.04</b> | <b>14.05</b> |
| 227             | 14.00                 | 12.70                                    | 13.35        | 13.72        | <b>14.00</b> | <b>14.01</b> | <b>14.03</b> |
| 229             | 14.00                 | 12.68                                    | 13.31        | 13.67        | 13.96        | <b>14.00</b> | <b>14.01</b> |
| 231             | 14.00                 | 12.66                                    | 13.29        | 13.64        | 13.95        | <b>14.00</b> | <b>14.01</b> |
| 233             | 15.00                 | 12.65                                    | 13.26        | 13.61        | 13.94        | 14.06        | 14.08        |
| 235             | 16.00                 | 11.29                                    | 11.86        | 12.16        | 12.46        | 12.73        | 12.82        |
| 237             | 16.00                 | 10.47                                    | 10.95        | 11.28        | 11.50        | 11.60        | 11.69        |
| 239             | 13.90                 | 9.42                                     | 10.00        | 10.35        | 10.66        | 10.90        | 11.08        |
| 241             | 12.80                 | 8.29                                     | 8.67         | 9.02         | 9.42         | 9.79         | 10.08        |
| 243             | 18.90                 | 14.58                                    | 15.11        | 15.46        | 15.86        | 16.29        | 16.76        |
| 243.2           | 18.90                 | 14.58                                    | 15.10        | 15.44        | 15.82        | 16.24        | 16.70        |
| 243.3           | 18.50                 | 14.64                                    | 14.96        | 15.20        | 15.53        | 15.82        | 16.19        |
| 243.5           | 18.00                 | 13.63                                    | 13.78        | 13.98        | 14.29        | 14.59        | 14.85        |
| 245             | 19.40                 | 13.83                                    | 15.18        | 16.24        | 17.43        | 18.76        | <b>19.40</b> |
| 247             | 19.15                 | 14.86                                    | 15.37        | 15.76        | 16.81        | 17.97        | <b>19.15</b> |
| 249             | 18.00                 | 14.79                                    | 15.22        | 15.50        | 15.86        | 16.70        | 17.62        |
| 251             | 16.00                 | 13.78                                    | 14.62        | 15.18        | 15.79        | <b>16.07</b> | <b>16.19</b> |
| 253             | 16.00                 | 12.74                                    | 13.16        | 13.31        | 13.42        | 13.48        | 13.63        |
| 255             | 15.93                 | 11.71                                    | 12.25        | 12.55        | 12.82        | 13.07        | 13.31        |
| 257             | 15.93                 | 11.69                                    | 12.23        | 12.53        | 12.81        | 13.06        | 13.30        |
| 259             | 16.30                 | 13.35                                    | <b>16.30</b> | <b>16.31</b> | <b>16.31</b> | <b>16.32</b> | <b>16.33</b> |
| 261             | 16.40                 | 11.37                                    | 11.98        | 12.30        | 12.59        | 12.87        | 13.12        |
| 263             | 19.05                 | 15.91                                    | 16.36        | 16.71        | 16.87        | 17.17        | 17.36        |
| 263.1           | 18.00                 | 15.33                                    | 16.06        | 16.59        | 16.79        | 17.19        | 17.36        |
| 263.2           | 17.00                 | 15.93                                    | 16.38        | 16.70        | 16.96        | <b>17.01</b> | <b>17.06</b> |
| 263.3           | 18.00                 | 17.35                                    | <b>18.01</b> | <b>18.01</b> | <b>18.02</b> | <b>18.03</b> | <b>18.04</b> |
| 263.4           | 17.50                 | 16.34                                    | 16.44        | 16.75        | 17.02        | 17.12        | 17.14        |
| 263.5           | 18.01                 | 15.82                                    | 16.30        | 16.64        | 16.86        | 16.95        | 17.02        |
| 263.6           | 18.00                 | 17.25                                    | <b>18.00</b> | <b>18.00</b> | <b>18.01</b> | <b>18.01</b> | <b>18.02</b> |
| 263.7           | 18.00                 | 17.58                                    | <b>18.00</b> | <b>18.01</b> | <b>18.02</b> | <b>18.03</b> | <b>18.04</b> |
| 263.8           | 18.00                 | 17.06                                    | <b>18.00</b> | <b>18.00</b> | <b>18.00</b> | <b>18.00</b> | <b>18.00</b> |
| 263.9           | 18.00                 | <b>18.01</b>                             | <b>18.03</b> | <b>18.05</b> | <b>18.06</b> | <b>18.08</b> | <b>18.10</b> |
| 265             | 15.16                 | 11.19                                    | 11.83        | 12.16        | 12.46        | 12.74        | 13.00        |
| 267             | 15.02                 | 11.07                                    | 11.68        | 11.99        | 12.27        | 12.53        | 12.77        |
| 269             | 15.00                 | 10.99                                    | 11.61        | 11.91        | 12.19        | 12.44        | 12.67        |



**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |              |              |              |              |
|-----------------|-----------------------|--|-----------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 271             | 13.80                 | 10.32                                    | 10.92     | 11.21        | 11.46        | 11.70        | 11.91        |
| 273             | 14.10                 | 9.85                                     | 10.39     | 10.64        | 10.85        | 11.05        | 11.22        |
| 275             | 13.80                 | 6.85                                     | 7.86      | 8.44         | 9.01         | 9.49         | 9.83         |
| 277             | 17.30                 | 14.86                                    | 15.48     | 15.87        | 16.28        | 16.68        | 17.06        |
| 279             | 11.98                 | 6.63                                     | 7.62      | 8.21         | 8.76         | 9.24         | 9.49         |
| 281             | 11.91                 | 6.45                                     | 7.49      | 8.10         | 8.66         | 9.15         | 9.36         |
| 283             | 10.00                 | 5.99                                     | 7.21      | 7.87         | 8.47         | 9.00         | 9.23         |
| 285             | 10.00                 | 5.42                                     | 6.72      | 7.42         | 8.06         | 8.60         | 8.88         |
| 287             | 10.00                 | 5.35                                     | 6.66      | 7.37         | 8.01         | 8.55         | 8.85         |
| 289             | 10.13                 | 5.94                                     | 7.09      | 7.75         | 8.48         | 9.18         | 9.81         |
| 291             | 10.00                 | 5.20                                     | 6.52      | 7.22         | 7.87         | 8.39         | 8.70         |
| 293             | 10.13                 | 5.28                                     | 6.61      | 7.33         | 7.99         | 8.53         | 8.94         |
| 295             | 16.96                 | 14.72                                    | 15.36     | 15.87        | 16.22        | 16.31        | 16.39        |
| 297             | 16.60                 | 15.10                                    | 15.72     | 16.26        | <b>16.62</b> | <b>16.66</b> | <b>16.70</b> |
| 299             | 17.06                 | 13.17                                    | 15.17     | 16.21        | 16.45        | 16.65        | 16.81        |
| 301             | 15.95                 | 12.97                                    | 14.93     | <b>15.95</b> | <b>15.96</b> | <b>15.98</b> | <b>15.99</b> |
| 303             | 15.50                 | 11.90                                    | 13.44     | 14.64        | 15.48        | <b>15.51</b> | <b>15.52</b> |
| 305             | 16.00                 | 10.64                                    | 11.06     | 11.34        | 11.64        | 11.94        | 12.25        |
| 307             | 16.00                 | 10.60                                    | 10.93     | 11.13        | 11.33        | 11.54        | 11.76        |
| 311             | 18.00                 | 15.88                                    | 16.12     | 16.55        | 16.88        | 17.00        | 17.00        |
| 311.2           | 17.00                 | 15.70                                    | 16.05     | 16.53        | 16.87        | <b>17.00</b> | <b>17.00</b> |
| 313             | 16.64                 | 14.70                                    | 15.34     | 15.86        | 16.21        | 16.29        | 16.37        |
| 313.2           | 15.50                 | 14.38                                    | 14.85     | 15.24        | <b>15.50</b> | <b>15.51</b> | <b>15.52</b> |
| 313.3           | 15.50                 | 14.09                                    | 14.68     | 15.11        | 15.41        | 15.44        | <b>15.50</b> |
| 313.4           | 15.50                 | 13.69                                    | 14.20     | 14.52        | 14.81        | 14.98        | 15.27        |
| 315             | 16.57                 | 14.79                                    | 15.62     | 16.23        | <b>16.57</b> | <b>16.58</b> | <b>16.59</b> |
| 317             | 16.00                 | 12.12                                    | 15.41     | <b>16.00</b> | <b>16.01</b> | <b>16.02</b> | <b>16.04</b> |
| 319             | 15.25                 | 10.16                                    | 10.64     | 10.84        | 11.00        | 11.09        | 11.18        |
| 321             | 15.25                 | 10.14                                    | 10.63     | 10.82        | 10.98        | 11.08        | 11.17        |
| 323             | 13.00                 | 9.87                                     | 10.37     | 10.58        | 10.76        | 10.87        | 10.97        |
| 325             | 13.00                 | 9.68                                     | 10.19     | 10.41        | 10.61        | 10.74        | 10.85        |
| 327             | 13.00                 | 9.63                                     | 10.12     | 10.33        | 10.50        | 10.63        | 10.74        |
| 329             | 13.30                 | 9.07                                     | 9.55      | 9.76         | 9.93         | 10.06        | 10.17        |
| 331             | 13.30                 | 8.95                                     | 9.41      | 9.61         | 9.77         | 9.90         | 9.99         |
| 333             | 10.00                 | 5.17                                     | 6.48      | 7.19         | 7.83         | 8.35         | 8.67         |
| 335             | 15.00                 | 12.18                                    | 13.53     | 14.82        | <b>15.00</b> | <b>15.01</b> | <b>15.02</b> |
| 335.2           | 14.36                 | 10.72                                    | 11.19     | 11.50        | 11.54        | 11.54        | 11.54        |
| 335.3           | 12.40                 | 9.86                                     | 10.20     | 10.40        | 10.43        | 10.43        | 10.43        |
| 335.4           | 10.47                 | 8.72                                     | 9.18      | 9.56         | 9.62         | 9.62         | 9.61         |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |              |              |              |              |
|-----------------|-----------------------|--|-----------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 335.6           | 10.05                 | 8.60                                     | 8.97      | 9.16         | 9.20         | 9.19         | 9.19         |
| 339             | 10.00                 | 5.13                                     | 6.43      | 7.14         | 7.78         | 8.29         | 8.62         |
| 343             | 8.00                  | 4.97                                     | 6.25      | 6.95         | 7.58         | <b>8.09</b>  | <b>8.41</b>  |
| 345             | 10.00                 | 4.93                                     | 6.21      | 6.91         | 7.55         | 8.05         | 8.38         |
| 347             | 12.00                 | 6.49                                     | 6.86      | 7.07         | 7.38         | 7.89         | 8.19         |
| 349             | 9.00                  | 4.78                                     | 6.04      | 6.73         | 7.37         | 7.88         | 8.20         |
| 351             | 8.00                  | 4.69                                     | 5.93      | 6.62         | 7.26         | 7.77         | <b>8.00</b>  |
| 353             | 8.00                  | 4.63                                     | 5.85      | 6.54         | 7.18         | 7.68         | 7.91         |
| 355             | 16.00                 | 11.82                                    | 12.07     | 12.22        | 12.39        | 12.68        | 13.28        |
| 357             | 14.00                 | 11.15                                    | 11.73     | 12.14        | 12.79        | <b>14.00</b> | <b>14.01</b> |
| 359             | 14.63                 | 10.14                                    | 10.69     | 11.05        | 11.47        | 12.28        | 12.70        |
| 361             | 16.00                 | 12.10                                    | 12.46     | 12.65        | 12.83        | 12.99        | 13.14        |
| 363             | 10.00                 | 6.50                                     | 6.81      | 6.97         | 7.13         | 7.63         | 7.85         |
| 365             | 16.00                 | 13.53                                    | 14.59     | 15.23        | 15.88        | <b>16.01</b> | <b>16.02</b> |
| 367             | 14.00                 | 12.35                                    | 13.01     | 13.69        | <b>14.01</b> | <b>14.02</b> | <b>14.04</b> |
| 369             | 15.00                 | 12.32                                    | 12.93     | 13.59        | 14.07        | 14.33        | 14.66        |
| 371             | 8.00                  | 4.58                                     | 5.80      | 6.49         | 7.12         | 7.62         | 7.85         |
| 373             | 8.00                  | 4.31                                     | 5.49      | 6.17         | 6.80         | 7.27         | 7.46         |
| 375             | 8.00                  | 4.25                                     | 5.42      | 6.10         | 6.71         | 7.18         | 7.35         |
| 377             | 8.00                  | 4.24                                     | 5.41      | 6.09         | 6.70         | 7.16         | 7.34         |
| 379             | 16.00                 | 12.38                                    | 13.12     | 13.83        | 14.19        | 14.22        | 14.23        |
| 397             | 20.25                 | 14.31                                    | 15.05     | 15.50        | 15.96        | 16.42        | 16.85        |
| 397.2           | 21.83                 | 14.31                                    | 15.05     | 15.49        | 15.96        | 16.42        | 16.84        |
| 397.3           | 20.31                 | 14.31                                    | 15.04     | 15.53        | 16.23        | 16.93        | 17.61        |
| 399             | 20.85                 | 14.86                                    | 15.72     | 16.38        | 17.24        | 18.12        | 18.99        |
| 399.2           | 20.70                 | 14.43                                    | 15.44     | 16.12        | 16.92        | 17.76        | 18.58        |
| 399.3           | 20.13                 | 14.31                                    | 15.10     | 15.74        | 16.53        | 17.35        | 18.10        |
| 399.4           | 22.32                 | 14.31                                    | 15.07     | 15.71        | 16.49        | 17.30        | 18.10        |
| 401             | 19.13                 | 14.30                                    | 15.02     | 15.46        | 15.92        | 16.40        | 16.81        |
| 403             | 20.00                 | 14.31                                    | 15.03     | 15.47        | 15.93        | 16.68        | 17.45        |
| 403.2           | 20.90                 | 14.31                                    | 15.03     | 15.47        | 15.93        | 16.64        | 17.41        |
| 403.3           | 22.00                 | 14.31                                    | 15.03     | 15.47        | 15.93        | 16.48        | 17.25        |
| 405             | 19.13                 | 15.39                                    | 16.25     | 16.73        | 17.16        | 17.54        | 17.91        |
| 407             | 20.13                 | 15.46                                    | 16.31     | 16.78        | 17.21        | 17.58        | 17.95        |
| 409             | 22.13                 | 15.30                                    | 16.04     | 16.88        | 17.85        | 18.93        | 20.14        |
| 411             | 22.13                 | 14.91                                    | 15.41     | 15.81        | 16.30        | 16.85        | 17.42        |
| 413             | 21.13                 | 18.47                                    | 20.54     | 21.02        | 21.04        | 21.05        | 21.08        |
| 415             | 21.13                 | 18.50                                    | 20.54     | 21.02        | 21.04        | 21.05        | 21.08        |
| 417             | 21.13                 | 18.61                                    | 20.61     | <b>21.13</b> | <b>21.15</b> | <b>21.17</b> | <b>21.19</b> |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |              |              |              |              |
|-----------------|-----------------------|--|-----------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 419             | 21.13                 | 18.62                                    | 20.62     | <b>21.13</b> | <b>21.15</b> | <b>21.17</b> | <b>21.19</b> |
| 421             | 21.13                 | 18.62                                    | 20.62     | <b>21.14</b> | <b>21.16</b> | <b>21.18</b> | <b>21.19</b> |
| 423             | 22.13                 | 14.42                                    | 15.03     | 15.47        | 15.92        | 16.38        | 16.80        |
| 425             | 18.00                 | 16.24                                    | 16.98     | 17.37        | 17.74        | <b>18.01</b> | <b>18.04</b> |
| 427             | 21.20                 | 18.69                                    | 20.63     | <b>21.20</b> | <b>21.20</b> | <b>21.21</b> | <b>21.23</b> |
| 429             | 19.13                 | 14.31                                    | 15.03     | 15.47        | 15.93        | 16.38        | 16.81        |
| 431             | 21.13                 | 18.67                                    | 20.63     | <b>21.14</b> | <b>21.18</b> | <b>21.21</b> | <b>21.23</b> |
| 433             | 19.13                 | 14.81                                    | 15.82     | 16.54        | 17.01        | 17.43        | 17.83        |
| 435             | 19.13                 | 15.32                                    | 16.35     | 17.17        | 17.60        | 18.02        | 18.35        |
| 437             | 21.13                 | 18.51                                    | 20.60     | <b>21.13</b> | <b>21.14</b> | <b>21.16</b> | <b>21.17</b> |
| 439             | 20.13                 | 15.68                                    | 16.91     | 17.80        | 18.22        | 18.63        | 18.90        |
| 441             | 19.13                 | 16.37                                    | 17.01     | 17.34        | 17.60        | 17.87        | 18.24        |
| 443             | 20.13                 | 16.25                                    | 16.87     | 17.18        | 17.44        | 17.71        | 17.97        |
| 445             | 19.13                 | 16.20                                    | 16.71     | 16.95        | 17.14        | 17.38        | 17.70        |
| 447             | 20.00                 | 16.46                                    | 16.97     | 17.25        | 17.52        | 17.80        | 18.08        |
| 449             | 21.13                 | 15.30                                    | 16.07     | 16.50        | 16.88        | 17.24        | 17.55        |
| 451             | 20.00                 | 17.25                                    | 17.85     | 18.25        | 18.70        | 19.13        | 19.45        |
| 453             | 19.13                 | 16.12                                    | 17.52     | 18.41        | <b>19.14</b> | <b>19.21</b> | <b>19.29</b> |
| 455             | 21.13                 | 15.04                                    | 15.82     | 16.24        | 16.64        | 17.02        | 17.30        |
| 457             | 20.00                 | 17.12                                    | 17.77     | 18.14        | 18.50        | 18.81        | 18.92        |
| 459             | 18.80                 | 16.22                                    | 17.01     | 17.53        | 18.08        | 18.49        | 18.65        |
| 461             | 18.80                 | 16.20                                    | 16.99     | 17.51        | 18.06        | 18.42        | 18.59        |
| 463             | 20.00                 | 16.11                                    | 16.92     | 17.48        | 18.04        | 18.37        | 18.55        |
| 465             | 18.00                 | 15.51                                    | 16.61     | 17.28        | 17.91        | <b>18.06</b> | <b>18.16</b> |
| 467             | 18.00                 | 15.17                                    | 15.76     | 16.06        | 16.36        | 16.54        | 16.72        |
| 469             | 20.13                 | 13.42                                    | 14.31     | 14.84        | 15.33        | 15.79        | 16.20        |
| 471             | 18.90                 | 17.25                                    | 17.88     | 18.26        | 18.62        | <b>18.90</b> | <b>18.92</b> |
| 473             | 19.00                 | 17.37                                    | 17.97     | 18.33        | 18.69        | <b>19.00</b> | <b>19.00</b> |
| 475             | 20.25                 | 15.59                                    | 16.50     | 17.07        | 17.57        | 17.95        | 18.34        |
| 477             | 19.00                 | 18.03                                    | 18.61     | 18.96        | <b>19.02</b> | <b>19.04</b> | <b>19.09</b> |
| 479             | 20.50                 | 17.95                                    | 18.51     | 18.85        | 19.08        | 19.26        | 19.45        |
| 481             | 20.00                 | 16.93                                    | 17.64     | 17.98        | 18.12        | 18.16        | 18.26        |
| 483             | 20.00                 | 16.91                                    | 17.57     | 17.81        | 17.86        | 17.87        | 17.89        |
| 485             | 18.80                 | 17.70                                    | 17.84     | 18.05        | 18.35        | 18.60        | 18.71        |
| 487             | 20.00                 | 16.39                                    | 17.05     | 17.44        | 17.80        | 18.14        | 18.47        |
| 489             | 20.00                 | 16.37                                    | 17.02     | 17.40        | 17.76        | 18.12        | 18.45        |
| 491             | 20.00                 | 16.69                                    | 17.15     | 17.43        | 17.75        | 18.09        | 18.42        |
| 493             | 20.00                 | 15.07                                    | 15.28     | 15.36        | 15.43        | 15.52        | 15.62        |
| 495             | 21.13                 | 18.43                                    | 20.51     | 20.96        | 20.99        | 21.01        | 21.05        |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 497             | 19.30                 | 14.49                                    | 14.89        | 15.10        | 15.28        | 15.44        | 15.60        |
| 499             | 20.13                 | 18.12                                    | 20.07        | <b>20.20</b> | <b>20.29</b> | <b>20.39</b> | <b>20.50</b> |
| 501             | 19.63                 | 14.66                                    | 15.47        | 15.99        | 16.52        | 17.07        | 17.64        |
| 501.2           | 19.63                 | 14.66                                    | 15.47        | 15.98        | 16.52        | 17.07        | 17.64        |
| 503             | 19.63                 | 14.66                                    | 15.47        | 15.98        | 16.52        | 17.07        | 17.64        |
| 505             | 19.63                 | 14.79                                    | 15.46        | 15.97        | 16.50        | 17.05        | 17.62        |
| 505.3           | 18.81                 | 15.74                                    | 16.91        | 17.60        | 18.05        | 18.51        | 18.77        |
| 507             | 18.63                 | 15.75                                    | 16.92        | 17.60        | 18.05        | 18.51        | <b>18.77</b> |
| 509             | 21.13                 | 15.80                                    | 16.91        | 17.58        | 18.03        | 18.49        | 18.74        |
| 511             | 20.13                 | 18.63                                    | 19.89        | <b>20.13</b> | <b>20.14</b> | <b>20.15</b> | <b>20.16</b> |
| 513             | 19.80                 | 18.61                                    | <b>19.80</b> | <b>19.82</b> | <b>19.85</b> | <b>19.89</b> | <b>19.94</b> |
| 515             | 20.13                 | 18.60                                    | 19.79        | 19.85        | 19.87        | 19.98        | 20.01        |
| 517             | 20.00                 | 18.60                                    | 19.80        | 19.87        | 19.90        | 19.91        | 19.94        |
| 519             | 20.00                 | 18.40                                    | 19.29        | 19.67        | 19.95        | <b>20.01</b> | <b>20.03</b> |
| 521             | 20.00                 | 18.39                                    | 19.27        | 19.65        | 19.92        | <b>20.01</b> | <b>20.04</b> |
| 523             | 19.13                 | 14.86                                    | 15.47        | 15.83        | 16.24        | 16.68        | 17.09        |
| 525             | 19.50                 | 14.66                                    | 15.47        | 15.98        | 16.52        | 17.07        | 17.64        |
| 527             | 21.13                 | 16.91                                    | 17.75        | 18.30        | 18.83        | 19.30        | 19.78        |
| 529             | 19.15                 | 16.51                                    | 17.45        | 17.87        | 18.26        | 18.56        | 18.80        |
| 531             | 20.13                 | 15.89                                    | 16.73        | 17.13        | 17.50        | 17.80        | 18.03        |
| 533             | 19.13                 | 15.84                                    | 16.62        | 16.94        | 17.22        | 17.43        | 17.60        |
| 537             | 19.13                 | 15.26                                    | 15.99        | 16.39        | 16.81        | 17.25        | 17.64        |
| 539             | 20.13                 | 12.89                                    | 13.99        | 14.58        | 15.11        | 15.59        | 16.03        |
| 541             | 17.00                 | 12.32                                    | 13.56        | 14.20        | 14.75        | 15.26        | 15.71        |
| 543             | 16.00                 | 12.13                                    | 13.37        | 14.00        | 14.54        | 15.02        | 15.43        |
| 545             | 16.40                 | 15.21                                    | 15.44        | 15.56        | 15.67        | 15.77        | 15.87        |
| 547             | 15.80                 | 12.69                                    | 12.94        | 13.22        | 13.72        | 14.17        | 14.60        |
| 549             | 15.00                 | 11.17                                    | 12.42        | 13.07        | 13.63        | 14.11        | 14.53        |
| 551             | 14.00                 | 10.61                                    | 11.85        | 12.50        | 13.05        | 13.53        | 13.98        |
| 553             | 12.00                 | 7.91                                     | 9.12         | 9.81         | 10.37        | 10.96        | 11.66        |
| 555             | 14.00                 | 10.27                                    | 11.50        | 12.16        | 12.70        | 13.18        | 13.64        |
| 557             | 19.13                 | 15.35                                    | 16.16        | 16.62        | 17.04        | 17.44        | 17.82        |
| 559             | 18.64                 | 16.99                                    | 17.56        | 17.89        | 18.22        | 18.56        | <b>18.69</b> |
| 561             | 19.13                 | 16.06                                    | 16.69        | 17.12        | 17.54        | 17.95        | 18.15        |
| 563             | 17.20                 | 15.05                                    | 15.86        | <b>17.20</b> | <b>17.20</b> | <b>17.20</b> | <b>17.20</b> |
| 565             | 17.80                 | 14.42                                    | 14.97        | 15.45        | 15.60        | 15.67        | 15.84        |
| 567             | 16.42                 | 14.14                                    | 14.60        | 14.97        | 15.07        | 15.11        | 15.21        |
| 569             | 13.00                 | 8.93                                     | 10.12        | 10.79        | 11.32        | 11.81        | 12.39        |
| 571             | 13.90                 | 7.79                                     | 8.98         | 9.66         | 10.22        | 10.83        | 11.54        |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 573             | 15.10                 | 7.55                                     | 8.77         | 9.47         | 10.04        | 10.68        | 11.41        |
| 577             | 18.00                 | 12.95                                    | 13.30        | 13.52        | 13.75        | 13.99        | 14.30        |
| 579             | 12.00                 | 6.96                                     | 8.23         | 8.94         | 9.55         | 10.32        | 11.08        |
| 581             | 12.00                 | 6.29                                     | 7.66         | 8.41         | 9.05         | 9.98         | 10.79        |
| 583             | 12.00                 | 6.24                                     | 7.62         | 8.37         | 9.00         | 9.95         | 10.75        |
| 585             | 15.00                 | 11.93                                    | 12.21        | 12.37        | 12.51        | 12.65        | 12.78        |
| 587             | 12.00                 | 6.17                                     | 7.56         | 8.31         | 8.95         | 9.91         | 10.72        |
| 589             | 15.50                 | 12.16                                    | 14.02        | 14.88        | <b>15.51</b> | <b>15.55</b> | <b>15.60</b> |
| 591             | 18.13                 | 15.02                                    | 15.25        | 15.38        | 16.02        | 16.56        | 16.94        |
| 593             | 18.00                 | 13.42                                    | 14.34        | 15.05        | 15.77        | 16.24        | 16.71        |
| 595             | 13.60                 | 8.99                                     | 9.20         | 9.44         | 9.96         | 10.77        | 11.46        |
| 597             | 16.50                 | 12.61                                    | 13.83        | 14.60        | 15.31        | 15.56        | 15.70        |
| 599             | 20.00                 | 14.17                                    | 14.58        | 14.84        | 15.10        | 15.40        | 15.76        |
| 601             | 12.00                 | 5.90                                     | 7.31         | 8.07         | 8.71         | 9.75         | 10.59        |
| 603             | 15.50                 | 11.95                                    | 13.74        | 14.54        | 15.22        | 15.43        | <b>15.52</b> |
| 605             | 10.40                 | 5.19                                     | 6.62         | 7.38         | 8.06         | 9.35         | 10.27        |
| 607             | 10.00                 | 5.16                                     | 6.58         | 7.34         | 8.02         | 9.32         | <b>10.25</b> |
| 609             | 13.60                 | 9.74                                     | 10.23        | 10.51        | 11.15        | 11.83        | 12.39        |
| 611             | 19.55                 | 15.40                                    | 17.84        | <b>19.55</b> | <b>19.58</b> | <b>19.61</b> | <b>19.65</b> |
| 613             | 20.35                 | 14.77                                    | 17.51        | 19.25        | 19.52        | 19.62        | 19.78        |
| 615             | 19.07                 | 15.02                                    | 16.94        | 18.86        | <b>19.08</b> | <b>19.09</b> | <b>19.11</b> |
| 617             | 20.65                 | 14.30                                    | 16.52        | 18.18        | 18.58        | 18.74        | 18.86        |
| 619             | 20.15                 | 14.20                                    | 16.33        | 17.95        | 18.38        | 18.58        | 18.72        |
| 621             | 19.13                 | 15.96                                    | 16.38        | 16.73        | 17.11        | 17.44        | 17.75        |
| 623             | 19.13                 | 16.36                                    | 16.98        | 17.29        | 17.53        | 17.78        | 18.13        |
| 625             | 19.86                 | 16.42                                    | 17.79        | 19.83        | <b>19.87</b> | <b>19.88</b> | <b>19.90</b> |
| 627             | 20.10                 | 15.32                                    | 16.20        | 17.67        | 18.97        | 19.87        | <b>20.10</b> |
| 629             | 17.25                 | 12.54                                    | 13.72        | 14.54        | 15.65        | 16.51        | 17.11        |
| 631             | 16.90                 | 14.82                                    | <b>16.90</b> | <b>16.91</b> | <b>16.91</b> | <b>16.92</b> | <b>16.93</b> |
| 633             | 20.30                 | 13.58                                    | 15.18        | 16.51        | 16.90        | 17.16        | 17.41        |
| 635             | 16.80                 | 14.68                                    | <b>16.80</b> | <b>16.81</b> | <b>16.83</b> | <b>16.85</b> | <b>16.88</b> |
| 637             | 21.13                 | 16.43                                    | 17.05        | 17.53        | 18.00        | 18.46        | 18.72        |
| 639             | 17.30                 | 13.03                                    | 14.20        | 14.95        | 15.45        | 15.91        | 16.08        |
| 641             | 16.00                 | 13.02                                    | 14.14        | 14.85        | 15.38        | 15.86        | <b>16.04</b> |
| 643             | 19.63                 | 14.98                                    | 15.61        | 16.09        | 16.38        | 16.58        | 16.72        |
| 645             | 17.48                 | 12.53                                    | 13.52        | 14.13        | 14.54        | 14.92        | 15.29        |
| 647             | 18.43                 | 11.32                                    | 12.20        | 12.64        | 13.02        | 13.36        | 13.72        |
| 649             | 18.40                 | 11.29                                    | 12.18        | 12.62        | 13.01        | 13.35        | 13.71        |
| 651             | 16.80                 | 11.04                                    | 11.99        | 12.47        | 12.89        | 13.26        | 13.64        |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |            |            |              |              |
|-----------------|-----------------------|--|-----------|------------|------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft) | 25-Yr (ft) | 50-Yr (ft)   | 100-Yr (ft)  |
| 653             | 16.30                 | 10.32                                    | 11.02     | 11.30      | 11.51      | 11.68        | 12.55        |
| 655             | 16.00                 | 10.00                                    | 10.71     | 11.01      | 11.23      | 11.41        | 12.51        |
| 657             | 15.80                 | 9.37                                     | 9.92      | 10.13      | 10.28      | 10.40        | 12.08        |
| 659             | 12.00                 | 7.92                                     | 8.35      | 8.96       | 9.78       | 10.71        | 11.43        |
| 661             | 10.00                 | 5.09                                     | 6.50      | 7.27       | 7.94       | 9.27         | <b>10.22</b> |
| 663             | 12.00                 | 6.42                                     | 7.78      | 8.53       | 9.17       | 10.06        | 10.86        |
| 665             | 17.00                 | 12.23                                    | 13.48     | 14.12      | 14.67      | 15.17        | 15.63        |
| 667             | 10.00                 | 4.98                                     | 6.38      | 7.14       | 7.81       | 9.20         | <b>10.16</b> |
| 669             | 10.00                 | 5.42                                     | 6.85      | 7.62       | 8.29       | 9.48         | <b>10.38</b> |
| 671             | 22.80                 | 18.11                                    | 18.55     | 18.83      | 19.13      | 19.45        | 19.78        |
| 673             | 21.30                 | 18.11                                    | 18.54     | 18.81      | 19.09      | 19.39        | 19.70        |
| 675             | 23.70                 | 17.41                                    | 18.08     | 18.57      | 18.96      | 19.38        | 19.77        |
| 679             | 23.00                 | 17.39                                    | 18.06     | 18.55      | 18.97      | 19.38        | 19.88        |
| 681             | 18.65                 | 16.94                                    | 17.48     | 17.80      | 18.09      | 18.38        | 18.51        |
| 683             | 21.00                 | 17.18                                    | 17.99     | 18.50      | 18.94      | 19.35        | 19.73        |
| 685             | 20.50                 | 17.12                                    | 17.97     | 18.49      | 18.94      | 19.34        | 19.74        |
| 687             | 20.50                 | 17.10                                    | 17.96     | 18.47      | 18.92      | 19.30        | 19.71        |
| 689             | 21.50                 | 17.09                                    | 17.96     | 18.47      | 18.92      | 19.29        | 19.71        |
| 691             | 21.50                 | 17.08                                    | 17.95     | 18.44      | 18.88      | 19.25        | 19.67        |
| 695             | 20.00                 | 17.03                                    | 17.92     | 18.42      | 18.86      | 19.20        | 19.66        |
| 697             | 20.00                 | 16.98                                    | 17.81     | 18.24      | 18.56      | 18.83        | 19.20        |
| 699             | 20.00                 | 16.92                                    | 17.76     | 18.22      | 18.48      | 18.78        | 19.18        |
| 703             | 20.00                 | 16.94                                    | 17.82     | 18.25      | 18.55      | 18.84        | 19.25        |
| 705             | 19.90                 | 16.90                                    | 17.80     | 18.23      | 18.45      | 18.77        | 19.17        |
| 707             | 20.36                 | 16.91                                    | 17.82     | 18.31      | 18.45      | 18.77        | 19.16        |
| 709             | 20.30                 | 15.56                                    | 16.31     | 16.85      | 17.35      | 17.74        | 17.95        |
| 711             | 21.13                 | 14.82                                    | 15.01     | 15.31      | 15.60      | 15.87        | 16.15        |
| 713             | 22.13                 | 14.90                                    | 15.18     | 15.32      | 15.61      | 15.88        | 16.16        |
| 715             | 20.00                 | 16.10                                    | 17.03     | 17.95      | 19.30      | <b>20.00</b> | <b>20.02</b> |
| 719             | 20.80                 | 15.37                                    | 16.15     | 16.70      | 17.27      | 17.67        | 17.89        |
| 725             | 22.00                 | 16.45                                    | 17.48     | 18.82      | 20.76      | <b>22.00</b> | <b>22.01</b> |
| 729             | 19.80                 | 15.08                                    | 15.91     | 16.46      | 17.13      | 17.54        | 17.78        |
| 731             | 19.76                 | 14.97                                    | 15.83     | 16.39      | 17.08      | 17.49        | 17.73        |
| 735             | 19.76                 | 14.83                                    | 15.68     | 16.19      | 16.71      | 17.01        | 17.19        |
| 737             | 19.30                 | 14.74                                    | 15.61     | 16.12      | 16.65      | 16.95        | 17.12        |
| 739             | 17.30                 | 13.15                                    | 14.58     | 15.59      | 16.71      | <b>17.30</b> | <b>17.31</b> |
| 741             | 19.30                 | 14.22                                    | 15.07     | 15.56      | 16.07      | 16.37        | 16.53        |
| 743             | 12.00                 | 8.22                                     | 8.59      | 8.81       | 9.03       | 9.25         | 9.47         |
| 745             | 8.80                  | 6.24                                     | 6.61      | 6.81       | 7.01       | 7.41         | 7.49         |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |            |            |            |             |
|-----------------|-----------------------|--|-----------|------------|------------|------------|-------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft) | 25-Yr (ft) | 50-Yr (ft) | 100-Yr (ft) |
| 747             | 16.70                 | 13.03                                    | 13.77     | 14.16      | 14.59      | 14.90      | 15.02       |
| 749             | 16.40                 | 10.80                                    | 11.39     | 11.69      | 11.97      | 12.24      | 12.35       |
| 755             | 8.00                  | 4.84                                     | 6.20      | 6.95       | 7.63       | 8.00       | 8.00        |
| 759             | 18.00                 | 15.67                                    | 16.21     | 16.62      | 18.00      | 18.00      | 18.00       |
| 761             | 16.30                 | 14.51                                    | 14.89     | 15.09      | 15.29      | 15.32      | 15.34       |
| 761.2           | 16.00                 | 13.71                                    | 14.09     | 14.31      | 14.51      | 14.53      | 14.55       |
| 763             | 15.00                 | 12.80                                    | 13.21     | 13.44      | 13.65      | 13.74      | 13.78       |
| 767             | 14.90                 | 10.22                                    | 10.69     | 10.97      | 11.23      | 11.32      | 11.39       |
| 771             | 11.56                 | 9.30                                     | 9.88      | 10.26      | 10.48      | 10.50      | 10.65       |
| 773             | 11.46                 | 8.29                                     | 8.58      | 8.75       | 8.91       | 8.96       | 8.99        |
| 777             | 8.00                  | 4.73                                     | 6.07      | 6.81       | 7.47       | 7.85       | 7.88        |
| 779             | 10.00                 | 4.51                                     | 5.80      | 6.52       | 7.18       | 7.57       | 7.63        |
| 781             | 8.00                  | 4.49                                     | 5.77      | 6.50       | 7.15       | 7.54       | 7.60        |
| 783             | 8.00                  | 4.40                                     | 5.65      | 6.36       | 7.00       | 7.40       | 7.48        |
| 791             | 20.50                 | 17.54                                    | 19.50     | 20.50      | 20.52      | 20.55      | 20.58       |
| 793             | 22.00                 | 16.00                                    | 16.96     | 17.36      | 17.51      | 17.73      | 17.97       |
| 795             | 21.80                 | 15.10                                    | 15.80     | 16.09      | 16.21      | 16.33      | 16.46       |
| 797             | 22.00                 | 14.81                                    | 15.55     | 15.86      | 15.99      | 16.14      | 16.29       |
| 799             | 22.00                 | 14.64                                    | 15.32     | 15.61      | 15.75      | 15.89      | 16.02       |
| 801             | 19.20                 | 13.29                                    | 14.15     | 14.49      | 14.62      | 14.73      | 14.81       |
| 803             | 17.80                 | 8.62                                     | 10.01     | 10.91      | 11.86      | 12.82      | 13.78       |
| 805             | 14.30                 | 7.71                                     | 8.23      | 8.58       | 9.07       | 9.71       | 10.38       |
| 807             | 18.40                 | 11.39                                    | 12.19     | 12.57      | 12.96      | 13.61      | 14.15       |
| 815             | 8.00                  | 4.15                                     | 5.32      | 5.99       | 6.59       | 7.01       | 7.13        |
| 819             | 8.00                  | 4.08                                     | 5.21      | 5.87       | 6.46       | 6.89       | 7.02        |
| 821             | 8.00                  | 3.71                                     | 4.67      | 5.25       | 5.79       | 6.18       | 6.33        |
| 823             | 21.00                 | 17.25                                    | 17.89     | 18.31      | 18.76      | 19.23      | 19.73       |
| 825             | 19.80                 | 16.38                                    | 16.48     | 16.54      | 16.59      | 16.63      | 16.68       |
| 827             | 10.00                 | 6.14                                     | 6.26      | 6.38       | 6.54       | 6.74       | 6.94        |
| 829             | 7.00                  | 3.54                                     | 4.43      | 4.97       | 5.47       | 5.84       | 6.16        |
| 831             | 8.00                  | 3.52                                     | 4.39      | 4.93       | 5.42       | 5.80       | 6.13        |
| 835             | 19.30                 | 12.65                                    | 13.51     | 14.06      | 14.61      | 15.18      | 15.75       |
| 837             | 19.90                 | 12.60                                    | 13.41     | 13.92      | 14.40      | 14.90      | 15.41       |
| 839             | 18.80                 | 15.24                                    | 15.82     | 16.13      | 16.43      | 16.71      | 17.02       |
| 841             | 19.50                 | 17.46                                    | 18.20     | 18.80      | 19.48      | 19.51      | 19.54       |
| 843             | 19.80                 | 13.60                                    | 14.30     | 14.72      | 15.18      | 15.67      | 16.19       |
| 847             | 18.00                 | 14.05                                    | 14.69     | 15.12      | 15.57      | 16.05      | 16.55       |
| 849             | 20.80                 | 14.05                                    | 14.72     | 15.16      | 15.61      | 16.07      | 16.56       |
| 851             | 18.00                 | 14.04                                    | 14.67     | 15.07      | 15.48      | 15.90      | 16.34       |

**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 853             | 19.20                 | 17.45                                    | 18.18        | 18.65        | 19.14        | <b>19.27</b> | <b>19.36</b> |
| 855             | 19.80                 | 17.45                                    | 18.17        | 18.63        | 19.12        | 19.31        | 19.41        |
| 859             | 18.80                 | 13.70                                    | 14.33        | 14.69        | 15.04        | 15.38        | 15.71        |
| 863             | 20.00                 | 13.59                                    | 14.26        | 14.63        | 14.98        | 15.33        | 15.66        |
| 865             | 18.48                 | 14.25                                    | 15.23        | 15.82        | 16.46        | 17.15        | 17.91        |
| 869             | 20.00                 | <b>20.02</b>                             | <b>20.04</b> | <b>20.06</b> | <b>20.08</b> | <b>20.10</b> | <b>20.12</b> |
| 871             | 19.00                 | 17.99                                    | 18.56        | 18.77        | 18.78        | 18.79        | 18.79        |
| 873             | 18.60                 | 17.72                                    | 18.46        | <b>18.61</b> | <b>18.62</b> | <b>18.63</b> | <b>18.65</b> |
| 875             | 18.60                 | 17.58                                    | 18.41        | <b>18.60</b> | <b>18.60</b> | <b>18.60</b> | <b>18.60</b> |
| 877             | 17.00                 | 14.43                                    | 14.89        | 15.17        | 15.47        | 15.78        | 16.07        |
| 879             | 18.00                 | 14.09                                    | 14.75        | 15.09        | 15.40        | 15.71        | 16.02        |
| 881             | 16.30                 | 13.41                                    | 14.06        | 14.41        | 14.75        | 15.10        | 15.41        |
| 885             | 16.50                 | 13.33                                    | 13.98        | 14.33        | 14.68        | 15.03        | 15.32        |
| 887             | 23.50                 | 19.07                                    | 19.45        | 19.68        | 19.90        | 20.12        | 20.36        |
| 889             | 15.90                 | 12.35                                    | 13.06        | 13.49        | 14.02        | 14.35        | 14.50        |
| 891             | 13.90                 | 11.70                                    | 12.58        | 13.21        | 13.83        | <b>13.94</b> | <b>14.00</b> |
| 893             | 20.60                 | 19.49                                    | 19.94        | 20.27        | <b>20.60</b> | <b>20.60</b> | <b>20.61</b> |
| 895             | 16.00                 | 11.40                                    | 12.37        | 13.03        | 13.65        | 13.81        | 13.85        |
| 897             | 16.00                 | 11.27                                    | 12.22        | 12.89        | 13.50        | 13.67        | 13.71        |
| 899             | 21.00                 | 19.24                                    | 19.79        | 20.17        | 20.54        | 20.65        | 20.97        |
| 901             | 20.50                 | 18.85                                    | 19.08        | 19.17        | 19.27        | 19.52        | 19.71        |
| 903             | 20.00                 | 17.78                                    | 18.16        | 18.53        | 18.94        | 19.40        | 19.64        |
| 905             | 16.00                 | 11.96                                    | 12.55        | 12.91        | 13.30        | 13.73        | 14.21        |
| 905.1           | 16.05                 | 11.93                                    | 12.52        | 12.88        | 13.27        | 13.70        | 14.18        |
| 907             | 20.00                 | <b>20.05</b>                             | <b>20.09</b> | <b>20.12</b> | <b>20.16</b> | <b>20.20</b> | <b>20.24</b> |
| 909             | 20.00                 | 18.88                                    | 18.88        | 18.89        | 19.00        | 19.23        | 19.40        |
| 911             | 20.00                 | 17.68                                    | 18.15        | 18.54        | 18.94        | 19.21        | 19.39        |
| 913             | 19.80                 | 17.37                                    | 17.99        | 18.38        | 18.81        | 19.10        | 19.30        |
| 915             | 16.00                 | 11.89                                    | 12.48        | 12.84        | 13.24        | 13.67        | 14.15        |
| 915.2           | 15.05                 | 11.56                                    | 12.14        | 12.51        | 12.92        | 13.34        | 13.76        |
| 915.3           | 15.20                 | 11.00                                    | 11.55        | 11.93        | 12.38        | 12.78        | 13.10        |
| 915.4           | 15.30                 | 10.60                                    | 11.12        | 11.52        | 12.02        | 12.41        | 12.66        |
| 915.5           | 14.00                 | 9.83                                     | 10.53        | 11.01        | 11.60        | 11.99        | 12.16        |
| 915.6           | 14.50                 | 9.66                                     | 10.36        | 10.79        | 11.25        | 11.59        | 11.74        |
| 915.7           | 15.00                 | 9.57                                     | 10.27        | 10.67        | 11.08        | 11.39        | 11.55        |
| 915.8           | 14.37                 | 9.23                                     | 9.95         | 10.35        | 10.77        | 11.08        | 11.26        |
| 915.9           | 13.85                 | 9.13                                     | 9.82         | 10.19        | 10.52        | 10.79        | 10.99        |
| 917             | 19.00                 | 16.94                                    | 17.48        | 17.75        | 17.99        | 18.17        | 18.31        |
| 919             | 18.50                 | 16.79                                    | 17.23        | 17.45        | 17.65        | 17.83        | 17.99        |



**Table A-2. Future Conditions Maximum Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |           |              |              |              |              |
|-----------------|-----------------------|--|-----------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft) | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 921             | 18.00                 | 15.34                                    | 15.77     | 16.03        | 16.27        | 16.50        | 16.70        |
| 923             | 16.00                 | 14.30                                    | 14.83     | 15.15        | 15.47        | 15.78        | <b>16.00</b> |
| 925             | 16.00                 | 12.63                                    | 13.44     | 13.91        | 14.38        | 14.55        | 14.62        |
| 927             | 15.00                 | 11.50                                    | 11.80     | 11.98        | 12.15        | 12.38        | 12.58        |
| 929             | 14.65                 | 9.03                                     | 9.71      | 10.07        | 10.40        | 10.66        | 10.87        |
| 929.2           | 12.70                 | 8.74                                     | 9.38      | 9.69         | 10.00        | 10.24        | 10.38        |
| 929.3           | 11.00                 | 8.68                                     | 9.29      | 9.59         | 9.89         | 10.13        | 10.27        |
| 935             | 16.00                 | 10.85                                    | 11.00     | 11.04        | 11.43        | 12.09        | 12.89        |
| 937             | 14.00                 | 8.37                                     | 9.78      | 10.60        | 11.34        | 12.05        | 12.87        |
| 939             | 10.00                 | 7.99                                     | 8.67      | 9.00         | 9.36         | 9.63         | 9.78         |
| 941             | 10.00                 | 7.99                                     | 8.66      | 8.99         | 9.35         | 9.63         | 9.77         |
| 943             | 10.19                 | 7.44                                     | 8.86      | <b>10.19</b> | <b>10.19</b> | <b>10.20</b> | <b>10.20</b> |
| 945             | 9.00                  | 6.65                                     | 7.37      | 7.82         | 8.39         | 8.85         | <b>9.04</b>  |
| 947             | 9.00                  | 5.74                                     | 6.47      | 7.14         | 7.74         | 8.25         | 8.46         |
| 949             | 9.00                  | 5.65                                     | 6.32      | 6.87         | 7.38         | 7.83         | 8.04         |
| 951             | 12.70                 | 7.42                                     | 7.68      | 7.84         | 7.99         | 8.14         | 8.29         |
| 953             | 6.00                  | 4.51                                     | 4.96      | 5.16         | 5.34         | 5.45         | 5.86         |
| 955             | 6.00                  | 3.51                                     | 3.96      | 4.15         | 4.44         | 4.87         | 5.77         |
| 957             | 5.50                  | 3.07                                     | 3.61      | 3.95         | 4.29         | 4.81         | <b>5.73</b>  |
| 959             | 16.80                 | 12.82                                    | 15.95     | <b>16.81</b> | <b>16.82</b> | <b>16.84</b> | <b>16.86</b> |
| 961             | 15.91                 | 12.28                                    | 14.77     | 15.83        | <b>15.91</b> | <b>15.92</b> | <b>15.93</b> |
| 963             | 13.20                 | 9.76                                     | 10.09     | 10.20        | 10.22        | 10.22        | 10.22        |
| 965             | 11.13                 | 6.95                                     | 7.35      | 7.48         | 7.53         | 7.55         | 7.54         |
| 967             | 6.00                  | 3.14                                     | 3.73      | 4.12         | 4.49         | 4.86         | 5.78         |
| 969             | 6.00                  | 3.13                                     | 3.73      | 4.12         | 4.49         | 4.86         | 5.78         |
| 971             | 6.00                  | 3.07                                     | 3.61      | 3.95         | 4.29         | 4.81         | 5.73         |
| 975             | 5.20                  | 3.45                                     | 4.13      | 4.54         | 4.92         | <b>5.21</b>  | <b>5.37</b>  |
| 981             | 5.00                  | 2.99                                     | 3.45      | 3.76         | 4.09         | 4.69         | <b>5.59</b>  |
| 983             | 5.00                  | 2.96                                     | 3.40      | 3.71         | 4.03         | 4.64         | <b>5.52</b>  |
| 985             | 5.00                  | 2.93                                     | 3.37      | 3.67         | 3.98         | 4.57         | <b>5.41</b>  |
| 987             | 4.00                  | 2.33                                     | 2.37      | 2.41         | 2.47         | 2.54         | 2.65         |
| 989             | 7.97                  | 3.93                                     | 5.49      | 7.03         | <b>7.97</b>  | <b>7.99</b>  | <b>8.01</b>  |
| 991             | 4.30                  | 3.19                                     | 3.77      | 4.13         | <b>4.30</b>  | <b>4.31</b>  | <b>4.32</b>  |
| 997             | 4.00                  | 2.30                                     | 2.30      | 2.31         | 2.31         | 2.32         | 2.33         |