**STORM SEWER COMPUTATIONS**

**Clarity Pointe Memory Care Facility**

| LOCATION | | | BASIN DATA | | | | | | | | PIPE DATA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Incre. | Total | Coeff. | Incre. | Sum | Total | Intensity | **Flow** | Pipe | | Pipe | Pipe | US | DS | Mean | **Flow** |
| Inlet | Area | Outlet | Area | Area | "C" | C x A | C x A | Tc | "I" | **Req.** | Size | "n" | Length | Slope | Invert | Invert | Velocity | **Capacity** |
| | | | (acres) | (acres) | Value | (acres) | (acres) | (min) | (in/hr) | **(cfs)** | (in) | Value | (ft) | (ft/ft) | (ft) | (ft) | (ft/sec) | **(cfs)** |
| EXISTING AREA | | CB-214 | 1.400 | 1.400 | 0.60 | 0.840 | 0.840 | 11.67 | 4.90 | **4.12** | -----Existing Pipe----- | | | | | | | |
| (from report) | | | | | | | | | | | | | | | | | | |
| CO-216 | 1 | YD-215 | 0.046 | 0.046 | 0.95 | 0.044 | 0.044 | 10 | 5.15 | **0.23** | 8 | 0.010 | 54 | 0.0200 | 867.57 | 866.49 | 6.38 | **2.23** |
| YD-215 | 2 | CB-214 | 0.054 | 0.100 | 0.85 | 0.046 | 0.090 | 10 | 5.15 | **0.46** | 12 | 0.013 | 75 | 0.0197 | 866.39 | 864.91 | 6.39 | **5.02** |
| CB-214 | 3 | CB-213 | 0.334 | 1.834 | 0.75 | 0.251 | 1.180 | 10 | 7.32 | **8.63** | 24 | 0.013 | 80 | 0.0032 | 862.75 | 862.49 | 4.12 | **12.93** |
| CB-213 | 4 | CB-211 | 0.662 | 2.496 | 0.75 | 0.497 | 1.677 | 10 | 7.32 | **12.27** | 24 | 0.013 | 83 | 0.0033 | 862.44 | 862.17 | 4.12 | **12.94** |
| YD-212 | 6 | CB-211 | 0.129 | 0.129 | 0.72 | 0.093 | 0.093 | 10 | 5.15 | **0.48** | 12 | 0.013 | 60 | 0.0198 | 867.47 | 866.28 | 6.41 | **5.03** |
| CB-211 | 5 | MH-207 | 0.200 | 2.825 | 0.75 | 0.150 | 1.919 | 10 | 7.32 | **14.04** | 24 | 0.013 | 85 | 0.0033 | 862.12 | 861.84 | 4.14 | **13.02** |
| YD-210 | 9 | YD-209 | 0.040 | 0.040 | 0.82 | 0.033 | 0.033 | 10 | 5.15 | **0.17** | 12 | 0.013 | 40 | 0.0197 | 867.73 | 866.94 | 6.39 | **5.02** |
| YD-209 | 8 | MH-207 | 0.054 | 0.094 | 0.56 | 0.030 | 0.063 | 10 | 5.15 | **0.32** | 12 | 0.013 | 28 | 0.0196 | 866.94 | 866.39 | 6.37 | **5.01** |
| MH-208 | 16 | MH-207 | 2.974 | 2.974 | 0.75 | 2.231 | 2.231 | 10 | 5.15 | **11.49** | 30 | 0.013 | 74 | 0.0277 | 866.86 | 864.81 | 13.94 | **68.45** |
| MH-207 | 7 | CB-203 | 0.235 | 6.128 | 0.75 | 0.176 | 4.389 | 10 | 7.32 | **32.12** | 36 | 0.013 | 87 | 0.0032 | 861.79 | 861.51 | 5.37 | **37.94** |
| MH-204 | 15 | CB-203 | 0.586 | 0.586 | 0.85 | 0.498 | 0.498 | 10 | 5.15 | **2.57** | 12 | 0.013 | 48 | 0.0198 | 867.7 | 866.75 | 6.40 | **5.03** |
| YD-206 | 11 | YD-205 | 0.054 | 0.054 | 0.83 | 0.045 | 0.045 | 10 | 5.15 | **0.23** | 12 | 0.013 | 41 | 0.0198 | 867.3 | 866.49 | 6.39 | **5.02** |
| YD-205 | 10 | CB-203 | 0.055 | 0.109 | 0.82 | 0.045 | 0.090 | 10 | 5.15 | **0.46** | 12 | 0.013 | 42 | 0.0352 | 866.49 | 865.01 | 8.54 | **6.71** |
| CB-203 | 12 | CB-202 | 0.365 | 7.188 | 0.75 | 0.274 | 5.251 | 10 | 7.32 | **38.42** | 42 | 0.013 | 82 | 0.0033 | 861.46 | 861.19 | 6.02 | **57.89** |
| CB-202 | 13 | MH-201 | 0.136 | 7.324 | 0.75 | 0.102 | 5.353 | 10 | 7.32 | **39.17** | 42 | 0.013 | 71 | 0.0032 | 861.14 | 860.91 | 5.97 | **57.42** |
| MH-201 | 14 | HW-200 | 0.019 | 7.343 | 0.95 | 0.018 | 5.371 | 10 | 7.32 | **39.30** | 42 | 0.013 | 22 | 0.0032 | 860.86 | 860.79 | 5.91 | **56.90** |
| CO-310 | 20 | YD-301 | 0.135 | 0.135 | 0.95 | 0.128 | 0.128 | 10 | 5.15 | **0.66** | 8 | 0.010 | 131 | 0.0198 | 868.43 | 865.83 | 6.36 | **2.22** |
| YD-302 | 19 | YD-301 | 0.334 | 0.334 | 0.75 | 0.251 | 0.251 | 10 | 5.15 | **1.29** | 12 | 0.013 | 33 | 0.0194 | 866.61 | 865.97 | 6.33 | **4.97** |
| YD-301 | 17 | HW-300 | 0.411 | 0.880 | 0.75 | 0.308 | 0.687 | 10 | 7.32 | **5.03** | 12 | 0.013 | 117 | 0.0199 | 865.73 | 863.40 | 6.42 | **5.04** |
| CO-406 | 18 | HW-400 | 0.139 | 0.139 | 0.95 | 0.132 | 0.132 | 10 | 5.15 | **0.68** | 8 | 0.010 | 277 | 0.0364 | 868.01 | 857.92 | 8.61 | **3.01** |

DESIGNED: KCK
REVIEWED:
File: 150275STM000 LOCAL STM NETWORK.xlsx