

DRAINAGE SUBAREA SUMMARY TABLE

Project: 2232 - Midway Phase 1
 Prepared by: WH
 Date: Dec, 2020



| Drainage Subarea ID(s) | Concentration Point | Commercial, Industrial | Multiple Family Residential | Medium Density Residential | Pavement | Open space | Total Area | Total Area |
|------------------------|---------------------|------------------------|-----------------------------|----------------------------|--------------------|--------------------|--------------------|------------|
| | | [ft ²] | [ft ²] | [ft ²] | [ft ²] | [ft ²] | [ft ²] | [ac] |
| DA-1 | RB-1 | 786,268 | 0 | 0 | 0 | 0 | 786,268 | 18.1 |
| DA-2 | RB-2 | 0 | 887,073 | 0 | 0 | 0 | 887,073 | 20.4 |
| DA-3 | RB-3 | 0 | 775,764 | 0 | 0 | 0 | 775,764 | 17.8 |
| DA-4 | RB-4 | 0 | 765,464 | 0 | 0 | 0 | 765,464 | 17.6 |
| DA-5 | RB-5 | 0 | 0 | 119,490 | 25,834 | 37,401 | 182,725 | 4.2 |
| DA-6 | RB-6 | 0 | 0 | 337,180 | 143,347 | 80,749 | 561,276 | 12.9 |
| DA-7 | RB-7 | 0 | 0 | 42,323 | 45,265 | 47,343 | 134,931 | 3.1 |
| DA-8 | RB-8 | 0 | 0 | 452,229 | 113,854 | 86,480 | 652,563 | 15.0 |
| DA-9 | RB-9 | 0 | 0 | 128,452 | 63,356 | 43,149 | 234,957 | 5.4 |
| DA-10 | RB-10 | 0 | 0 | 342,397 | 136,733 | 92,619 | 571,750 | 13.1 |
| DA-11 | RB-11 | 0 | 0 | 195,166 | 33,059 | 32,487 | 260,712 | 6.0 |
| DA-12 | RB-12 | 0 | 0 | 521,023 | 209,397 | 146,022 | 876,442 | 20.1 |
| DA-13 | RB-13 | 0 | 0 | 63,105 | 42,806 | 53,016 | 158,928 | 3.6 |
| DA-14 | RB-14 | 0 | 0 | 223,482 | 48,832 | 58,330 | 330,644 | 7.6 |
| DA-15 | RB-15 | 0 | 0 | 451,318 | 139,704 | 139,302 | 730,323 | 16.8 |
| DA-16 | RB-16 | 0 | 0 | 234,226 | 47,961 | 63,668 | 345,855 | 7.9 |
| DA-17 | RB-17 | 0 | 0 | 134,176 | 52,363 | 48,955 | 235,495 | 5.4 |
| DA-18 | RB-18 & 28 | 0 | 0 | 344,446 | 111,006 | 87,878 | 543,330 | 12.5 |
| DA-19 | RB-19 | 0 | 0 | 158,225 | 37,771 | 28,956 | 224,952 | 5.2 |
| DA-20 | RB-20 | 0 | 0 | 289,665 | 101,505 | 121,335 | 512,505 | 11.8 |
| DA-21 | RB-21 & 24 | 0 | 0 | 247,384 | 178,509 | 100,441 | 526,334 | 12.1 |
| DA-22 | RB-18 & 28 | 0 | 0 | 228,744 | 87,509 | 30,469 | 346,721 | 8.0 |
| DA-23 | RB-20 | 0 | 0 | 178,442 | 70,425 | 26,397 | 275,264 | 6.3 |
| DA-24 | RB-21 & 24 | 0 | 0 | 471,411 | 144,761 | 72,086 | 688,258 | 15.8 |
| DA-25 | RB-25 | 0 | 0 | 369,402 | 125,646 | 125,209 | 620,257 | 14.2 |
| DA-26 | RB-26 | 0 | 0 | 49,068 | 12,052 | 24,921 | 86,041 | 2.0 |
| DA-27 | RB-27 | 0 | 0 | 203,853 | 50,769 | 30,976 | 285,598 | 6.6 |
| DA-28 | RB-18 & 28 | 0 | 0 | 203,924 | 52,987 | 50,266 | 307,177 | 7.1 |
| DA-29 | RB-29 | 0 | 0 | 793,418 | 195,906 | 119,211 | 1,108,535 | 25.4 |
| DA-30 | RB-30 | 0 | 0 | 149,475 | 56,110 | 48,460 | 254,044 | 5.8 |
| DA-31 | RB-31 | 0 | 0 | 78,419 | 22,794 | 32,383 | 133,596 | 3.1 |
| DA-32 | RB-32 | 0 | 0 | 0 | 0 | 347,046 | 347,046 | 8.0 |
| DA-33 | RB-33 | 0 | 0 | 142,778 | 37,763 | 40,861 | 221,401 | 5.1 |
| DA-34 | RB-34 | 0 | 0 | 93,289 | 18,122 | 26,375 | 137,786 | 3.2 |
| DA-35 | RB-32 | 0 | 0 | 77,116 | 107,832 | 15,372 | 200,320 | 4.6 |
| DA-36 | RB-37 | 0 | 0 | 136,357 | 31,196 | 1,238 | 168,791 | 3.9 |
| DA-37 | RB-37 | 0 | 0 | 207,182 | 58,176 | 80,554 | 345,912 | 7.9 |
| DA-38 | RB-38 | 437,487 | 0 | 0 | 0 | 0 | 437,487 | 10.0 |
| DA-39 | RB-39 | 0 | 0 | 330,130 | 85,809 | 52,592 | 468,532 | 10.8 |
| DA-40 | RB-40 | 0 | 0 | 86,398 | 80,185 | 49,283 | 215,867 | 5.0 |
| DA-41 | RB-41 | 0 | 0 | 43,359 | 10,961 | 25,933 | 80,254 | 1.8 |
| DA-42 | RB-42 | 0 | 0 | 161,085 | 87,993 | 92,845 | 341,924 | 7.8 |
| DA-43 | RB-43 | 0 | 0 | 510,000 | 110,975 | 89,415 | 710,390 | 16.3 |
| DA-44 | RB-44 | 0 | 0 | 530,081 | 137,321 | 110,806 | 778,208 | 17.9 |
| DA-45 | RB-45 | 0 | 0 | 190,413 | 44,558 | 29,461 | 264,432 | 6.1 |
| DA-46 | RB-46 | 0 | 0 | 342,436 | 178,934 | 146,958 | 668,329 | 15.3 |
| DA-47 | RB-47 | 0 | 0 | 171,297 | 66,280 | 87,827 | 325,403 | 7.5 |
| DA-48 | RB-48 | 0 | 0 | 398,280 | 207,842 | 148,616 | 754,737 | 17.3 |
| DA-49 | RB-49 | 0 | 0 | 384,218 | 94,714 | 91,399 | 570,331 | 13.1 |
| DA-50 | RB-50 | 0 | 0 | 326,963 | 168,849 | 124,276 | 620,088 | 14.2 |
| DA-51 | RB-51 | 0 | 0 | 331,854 | 106,025 | 110,297 | 548,176 | 12.6 |
| DA-52 | RB-52 | 0 | 0 | 191,297 | 34,042 | 25,812 | 251,151 | 5.8 |
| DA-53 | RB-53 | 0 | 0 | 218,735 | 126,164 | 159,740 | 504,639 | 11.6 |
| DA-54 | RB-54 | 0 | 0 | 558,212 | 121,735 | 89,791 | 769,739 | 17.7 |
| DA-55 | RB-55 | 0 | 0 | 332,646 | 87,222 | 151,350 | 571,218 | 13.1 |
| DA-56 | RB-56 | 0 | 0 | 347,044 | 88,145 | 98,738 | 533,928 | 12.3 |
| DA-57 | RB-57 | 0 | 0 | 641,899 | 170,209 | 134,410 | 946,517 | 21.7 |
| DA-58 | RB-58 | 0 | 0 | 0 | 98,072 | 45,715 | 143,787 | 3.3 |
| DA-59 | RB-8 | 0 | 0 | 0 | 102,275 | 14,994 | 117,269 | 2.7 |
| DA-60 | RB-5 | 0 | 0 | 0 | 63,437 | 8,711 | 72,149 | 1.7 |
| DA-61 | RB-1 | 0 | 0 | 0 | 94,702 | 0 | 94,702 | 2.2 |
| DA-62 | RB-62 | 0 | 0 | 0 | 203,312 | 82,328 | 285,639 | 6.6 |
| DA-63 | RB-16 | 0 | 0 | 0 | 80,009 | 26,590 | 106,599 | 2.4 |
| DA-64 | RB-19 | 0 | 0 | 0 | 59,174 | 20,380 | 79,555 | 1.8 |
| DA-65 | RB-65 | 0 | 0 | 0 | 63,405 | 36,056 | 99,461 | 2.3 |
| DA-66 | RB-20 | 0 | 0 | 0 | 71,243 | 6,274 | 77,517 | 1.8 |
| DA-67 | RB-67 | 0 | 0 | 0 | 107,925 | 49,413 | 157,338 | 3.6 |
| DA-68 | RB-67 | 0 | 0 | 0 | 73,929 | 62,711 | 136,639 | 3.1 |
| DA-69 | RB-72 | 0 | 0 | 0 | 61,435 | 49,594 | 111,029 | 2.5 |
| DA-70 | RB-33 | 0 | 0 | 0 | 41,084 | 4,599 | 45,683 | 1.0 |
| DA-71 | RB-37 | 0 | 0 | 0 | 69,036 | 22,529 | 91,565 | 2.1 |
| DA-72 | RB-72 | 0 | 0 | 0 | 75,067 | 22,966 | 98,033 | 2.3 |
| DA-73 | RB-57 | 0 | 0 | 0 | 83,025 | 67,080 | 150,106 | 3.4 |

-Weighted runoff coefficient per Table 2-1 of the Pinal County Drainage Design Manual, Volume 2 (2004)

WEIGHTED RUNOFF COEFFICIENT CALCULATIONS

Project: 2232 - Midway Phase 1
 Prepared by: WH
 Date: Dec, 2020



| Landuse ⁽¹⁾ | 10-Year C Coefficient | 100-Year C Coefficient |
|-----------------------------|-----------------------|------------------------|
| Commercial, Industrial | 0.90 | 0.90 |
| Multiple Family Residential | 0.75 | 0.94 |
| Medium Density Residential | 0.65 | 0.82 |
| Pavement | 0.95 | 0.95 |
| Open Space | 0.40 | 0.50 |

-Weighted runoff coefficient per Table 2-1 of the Pinal County Drainage Design Manual, Volume 2 (2004)

| Drainage Subarea ID(s) | Concentration Point | Land Use Category | | | | | Total [ft ²] | 10-YR | 100-YR |
|------------------------|---------------------|------------------------|-----------------------------|----------------------------|--------------------|--------------------|-----------------------------|----------------------|----------------------|
| | | Commercial, Industrial | Multiple Family Residential | Medium Density Residential | Pavement | Open space | | Weighted Coefficient | Weighted Coefficient |
| | | [ft ²] | [ft ²] | [ft ²] | [ft ²] | [ft ²] | | C _w | C _w |
| DA-1 | RB-1 | 786,268 | 0 | 0 | 0 | 0 | 786,268 | 0.90 | 0.90 |
| DA-2 | RB-2 | 0 | 887,073 | 0 | 0 | 0 | 887,073 | 0.75 | 0.94 |
| DA-3 | RB-3 | 0 | 775,764 | 0 | 0 | 0 | 775,764 | 0.75 | 0.94 |
| DA-4 | RB-4 | 0 | 765,464 | 0 | 0 | 0 | 765,464 | 0.75 | 0.94 |
| DA-5 | RB-5 | 0 | 0 | 119,490 | 25,834 | 37,401 | 182,725 | 0.64 | 0.77 |
| DA-6 | RB-6 | 0 | 0 | 337,180 | 143,347 | 80,749 | 561,276 | 0.69 | 0.81 |
| DA-7 | RB-7 | 0 | 0 | 42,323 | 45,265 | 47,343 | 134,931 | 0.66 | 0.75 |
| DA-8 | RB-8 | 0 | 0 | 452,229 | 113,854 | 86,480 | 652,563 | 0.67 | 0.80 |
| DA-9 | RB-9 | 0 | 0 | 128,452 | 63,356 | 43,149 | 234,957 | 0.68 | 0.80 |
| DA-10 | RB-10 | 0 | 0 | 342,397 | 136,733 | 92,619 | 571,750 | 0.68 | 0.80 |
| DA-11 | RB-11 | 0 | 0 | 195,166 | 33,059 | 32,487 | 260,712 | 0.66 | 0.80 |
| DA-12 | RB-12 | 0 | 0 | 521,023 | 209,397 | 146,022 | 876,442 | 0.68 | 0.80 |
| DA-13 | RB-13 | 0 | 0 | 63,105 | 42,806 | 53,016 | 158,928 | 0.65 | 0.75 |
| DA-14 | RB-14 | 0 | 0 | 223,482 | 48,832 | 58,330 | 330,644 | 0.65 | 0.78 |
| DA-15 | RB-15 | 0 | 0 | 451,318 | 139,704 | 139,302 | 730,323 | 0.66 | 0.78 |
| DA-16 | RB-16 | 0 | 0 | 234,226 | 47,961 | 63,668 | 345,855 | 0.65 | 0.78 |
| DA-17 | RB-17 | 0 | 0 | 134,176 | 52,363 | 48,955 | 235,495 | 0.66 | 0.78 |
| DA-18 | RB-18 & 28 | 0 | 0 | 344,446 | 111,006 | 87,878 | 543,330 | 0.67 | 0.79 |
| DA-19 | RB-19 | 0 | 0 | 158,225 | 37,771 | 28,956 | 224,952 | 0.67 | 0.80 |
| DA-20 | RB-20 | 0 | 0 | 289,665 | 101,505 | 121,335 | 512,505 | 0.65 | 0.77 |
| DA-21 | RB-21 & 24 | 0 | 0 | 247,384 | 178,509 | 100,441 | 526,334 | 0.70 | 0.80 |
| DA-22 | RB-18 & 28 | 0 | 0 | 228,744 | 87,509 | 30,469 | 346,721 | 0.70 | 0.82 |
| DA-23 | RB-20 | 0 | 0 | 178,442 | 70,425 | 26,397 | 275,264 | 0.70 | 0.82 |
| DA-24 | RB-21 & 24 | 0 | 0 | 471,411 | 144,761 | 72,086 | 688,258 | 0.69 | 0.81 |
| DA-25 | RB-25 | 0 | 0 | 369,402 | 125,646 | 125,209 | 620,257 | 0.66 | 0.78 |
| DA-26 | RB-26 | 0 | 0 | 49,068 | 12,052 | 24,921 | 86,041 | 0.62 | 0.75 |
| DA-27 | RB-27 | 0 | 0 | 203,853 | 50,769 | 30,976 | 285,598 | 0.68 | 0.81 |
| DA-28 | RB-18 & 28 | 0 | 0 | 203,924 | 52,987 | 50,266 | 307,177 | 0.66 | 0.79 |
| DA-29 | RB-29 | 0 | 0 | 793,418 | 195,906 | 119,211 | 1,108,535 | 0.68 | 0.81 |
| DA-30 | RB-30 | 0 | 0 | 149,475 | 56,110 | 48,460 | 254,044 | 0.67 | 0.79 |
| DA-31 | RB-31 | 0 | 0 | 78,419 | 22,794 | 32,383 | 133,596 | 0.64 | 0.76 |
| DA-32 | RB-32 | 0 | 0 | 0 | 0 | 347,046 | 347,046 | 0.40 | 0.50 |
| DA-33 | RB-33 | 0 | 0 | 142,778 | 37,763 | 40,861 | 221,401 | 0.66 | 0.78 |
| DA-34 | RB-34 | 0 | 0 | 93,289 | 18,122 | 26,375 | 137,786 | 0.64 | 0.78 |
| DA-35 | RB-32 | 0 | 0 | 77,116 | 107,832 | 15,372 | 200,320 | 0.79 | 0.87 |
| DA-36 | RB-37 | 0 | 0 | 136,357 | 31,196 | 1,238 | 168,791 | 0.70 | 0.84 |
| DA-37 | RB-37 | 0 | 0 | 207,182 | 58,176 | 80,554 | 345,912 | 0.64 | 0.77 |
| DA-38 | RB-38 | 437,487 | 0 | 0 | 0 | 0 | 437,487 | 0.90 | 0.90 |
| DA-39 | RB-39 | 0 | 0 | 330,130 | 85,809 | 52,592 | 468,532 | 0.68 | 0.81 |
| DA-40 | RB-40 | 0 | 0 | 86,398 | 80,185 | 49,283 | 215,867 | 0.70 | 0.80 |
| DA-41 | RB-41 | 0 | 0 | 43,359 | 10,961 | 25,933 | 80,254 | 0.61 | 0.73 |
| DA-42 | RB-42 | 0 | 0 | 161,085 | 87,993 | 92,845 | 341,924 | 0.66 | 0.77 |
| DA-43 | RB-43 | 0 | 0 | 510,000 | 110,975 | 89,415 | 710,390 | 0.67 | 0.80 |
| DA-44 | RB-44 | 0 | 0 | 530,081 | 137,321 | 110,806 | 778,208 | 0.67 | 0.80 |
| DA-45 | RB-45 | 0 | 0 | 190,413 | 44,558 | 29,461 | 264,432 | 0.67 | 0.81 |
| DA-46 | RB-46 | 0 | 0 | 342,436 | 178,934 | 146,958 | 668,329 | 0.68 | 0.78 |
| DA-47 | RB-47 | 0 | 0 | 171,297 | 66,280 | 87,827 | 325,403 | 0.64 | 0.76 |
| DA-48 | RB-48 | 0 | 0 | 398,280 | 207,842 | 148,616 | 754,737 | 0.68 | 0.79 |
| DA-49 | RB-49 | 0 | 0 | 384,218 | 94,714 | 91,399 | 570,331 | 0.66 | 0.79 |
| DA-50 | RB-50 | 0 | 0 | 326,963 | 168,849 | 124,276 | 620,088 | 0.68 | 0.79 |
| DA-51 | RB-51 | 0 | 0 | 331,854 | 106,025 | 110,297 | 548,176 | 0.66 | 0.78 |
| DA-52 | RB-52 | 0 | 0 | 191,297 | 34,042 | 25,812 | 251,151 | 0.66 | 0.80 |
| DA-53 | RB-53 | 0 | 0 | 218,735 | 126,164 | 159,740 | 504,639 | 0.65 | 0.75 |
| DA-54 | RB-54 | 0 | 0 | 558,212 | 121,735 | 89,791 | 769,739 | 0.67 | 0.80 |
| DA-55 | RB-55 | 0 | 0 | 332,646 | 87,222 | 151,350 | 571,218 | 0.63 | 0.76 |
| DA-56 | RB-56 | 0 | 0 | 347,044 | 88,145 | 98,738 | 533,928 | 0.65 | 0.78 |
| DA-57 | RB-57 | 0 | 0 | 641,899 | 170,209 | 134,410 | 946,517 | 0.67 | 0.80 |
| DA-58 | RB-58 | 0 | 0 | 0 | 98,072 | 45,715 | 143,787 | 0.78 | 0.81 |
| DA-59 | RB-8 | 0 | 0 | 0 | 102,275 | 14,994 | 117,269 | 0.88 | 0.89 |
| DA-60 | RB-5 | 0 | 0 | 0 | 63,437 | 8,711 | 72,149 | 0.88 | 0.90 |
| DA-61 | RB-1 | 0 | 0 | 0 | 94,702 | 0 | 94,702 | 0.95 | 0.95 |
| DA-62 | RB-62 | 0 | 0 | 0 | 203,312 | 82,328 | 285,639 | 0.79 | 0.82 |
| DA-63 | RB-16 | 0 | 0 | 0 | 80,009 | 26,590 | 106,599 | 0.81 | 0.84 |
| DA-64 | RB-19 | 0 | 0 | 0 | 59,174 | 20,380 | 79,555 | 0.81 | 0.83 |
| DA-65 | RB-65 | 0 | 0 | 0 | 63,405 | 36,056 | 99,461 | 0.75 | 0.79 |
| DA-66 | RB-20 | 0 | 0 | 0 | 71,243 | 6,274 | 77,517 | 0.91 | 0.91 |
| DA-67 | RB-67 | 0 | 0 | 0 | 107,925 | 49,413 | 157,338 | 0.78 | 0.81 |
| DA-68 | RB-67 | 0 | 0 | 0 | 73,929 | 62,711 | 136,639 | 0.70 | 0.74 |
| DA-69 | RB-72 | 0 | 0 | 0 | 61,435 | 49,594 | 111,029 | 0.70 | 0.75 |
| DA-70 | RB-33 | 0 | 0 | 0 | 41,084 | 4,599 | 45,683 | 0.89 | 0.90 |
| DA-71 | RB-37 | 0 | 0 | 0 | 69,036 | 22,529 | 91,565 | 0.81 | 0.84 |
| DA-72 | RB-72 | 0 | 0 | 0 | 75,067 | 22,966 | 98,033 | 0.82 | 0.84 |
| DA-73 | RB-57 | 0 | 0 | 0 | 83,025 | 67,080 | 150,106 | 0.70 | 0.75 |

PRELIMINARY RETENTION CALCULATION TABLE

Project: 2232 - Midway Phase 1
 Prepared by: WH
 Date: Dec, 2020



Volume Required = C * (P/ 12) * A

- C = -Weighted runoff coefficient per Table 2-1 of the Pinal County Drainage Design Manual, Volume 2 (2004)
- P = 2.32 in -Precipitation depth associated with the 100-year, 2-hour storm event (NOAA 14)
- A = Plan-view area of increased imperviousness.

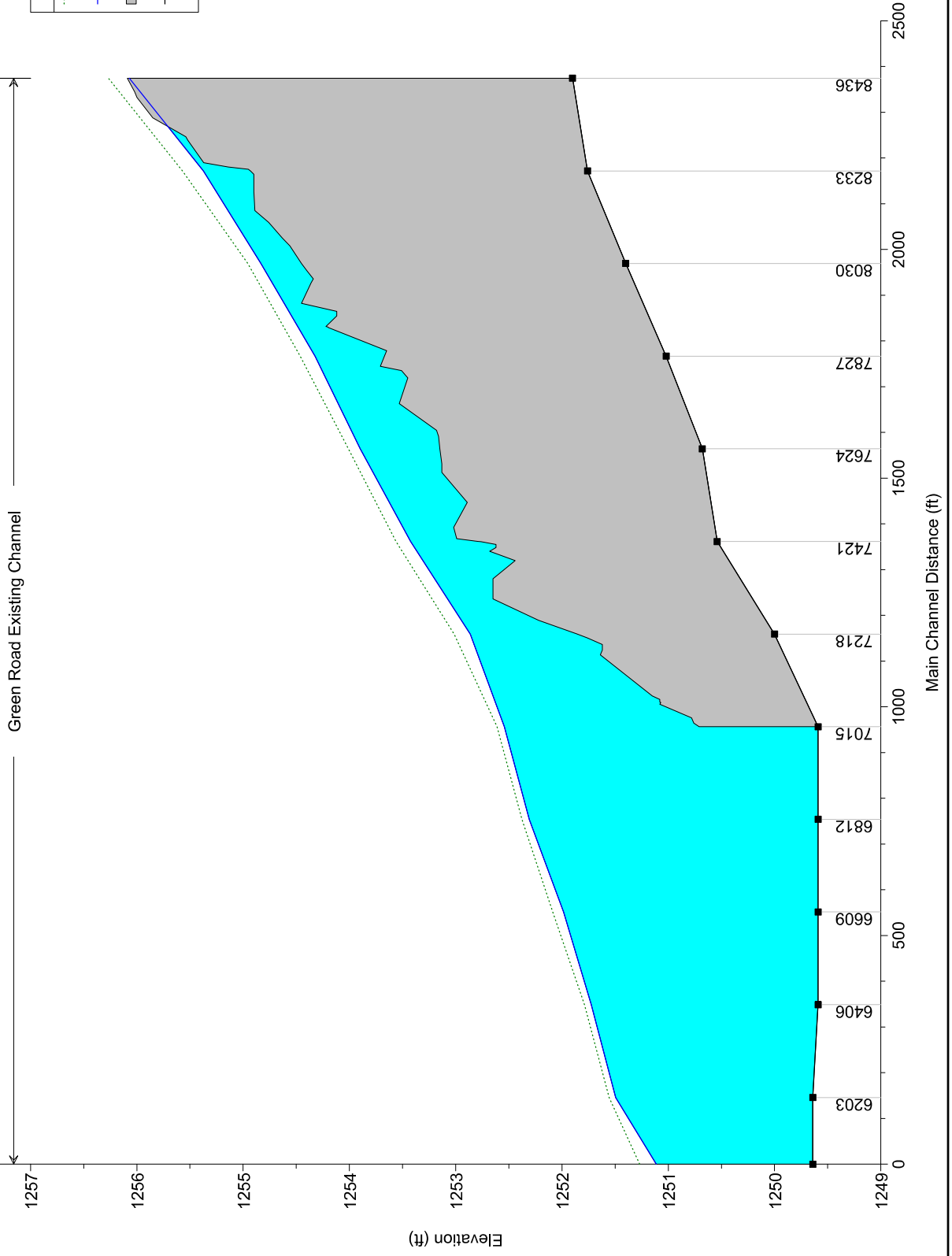
| Retention Basin ID | Drainage Area | Area A [ft ²] | Area A [ac] | Weighted Runoff Coefficient C, 100-Yr | Retention Volume Required Yr, 2-Hr 100- [ft ³] | Overflow from Upstream [ft ³] | Upstream Basin ID | TOTAL Retention Volume Required 100- Yr, 2-Hr [ft ³] | TOTAL Retention Volume Provided [ft ³] | Overflow Volume [ft ³] | Downstream Basin ID |
|--------------------|---------------|------------------------------|----------------|--|--|---|----------------------|---|--|---------------------------------------|------------------------|
| RB-1 | DA-1 | 786,288 | 18.1 | 0.90 | 136,811 | 0 | - | 154,204 | - | 0 | - |
| | DA-61 | 94,702 | 2.2 | 0.95 | 17,394 | | | | | | |
| RB-2 | DA-2 | 887,073 | 20.4 | 0.94 | 161,211 | 0 | - | 161,211 | - | 0 | - |
| RB-3 | DA-3 | 775,764 | 17.8 | 0.94 | 140,982 | 0 | - | 140,982 | - | 0 | - |
| RB-4 | DA-4 | 765,464 | 17.6 | 0.94 | 139,110 | 0 | - | 139,110 | - | 0 | - |
| RB-5 | DA-5 | 182,725 | 4.2 | 0.77 | 27,303 | 0 | - | 39,797 | 40,874 | 0 | - |
| | DA-60 | 72,149 | 1.7 | 0.90 | 12,493 | | | | | | |
| RB-6 | DA-6 | 561,276 | 12.9 | 0.81 | 87,588 | 0 | - | 87,588 | 88,898 | 0 | - |
| RB-7 | DA-7 | 134,931 | 3.1 | 0.75 | 19,600 | 0 | - | 19,600 | 30,149 | 0 | - |
| RB-8 | DA-8 | 652,563 | 15.0 | 0.80 | 100,964 | 0 | - | 121,198 | 158,647 | 0 | - |
| | DA-59 | 117,269 | 2.7 | 0.89 | 20,234 | | | | | | |
| RB-9 | DA-9 | 234,957 | 5.4 | 0.80 | 36,171 | 0 | - | 36,171 | 42,323 | 0 | - |
| RB-10 | DA-10 | 571,750 | 13.1 | 0.80 | 88,348 | 0 | - | 88,348 | 89,438 | 0 | - |
| RB-11 | DA-11 | 260,712 | 6.0 | 0.80 | 40,152 | 0 | - | 40,152 | 40,500 | 0 | - |
| RB-12 | DA-12 | 876,442 | 20.1 | 0.80 | 135,174 | 0 | - | 135,174 | 182,007 | 0 | - |
| RB-13 | DA-13 | 158,928 | 3.6 | 0.75 | 22,991 | 0 | - | 22,991 | 61,880 | 0 | - |
| RB-14 | DA-14 | 330,644 | 7.6 | 0.78 | 50,037 | 0 | - | 50,037 | 56,672 | 0 | - |
| RB-15 | DA-15 | 730,323 | 16.8 | 0.78 | 110,674 | 0 | - | 110,674 | 160,130 | 0 | - |
| RB-16 | DA-16 | 345,855 | 7.9 | 0.78 | 52,096 | 0 | - | 69,361 | 100,789 | 0 | - |
| | DA-63 | 106,599 | 2.4 | 0.84 | 17,265 | | | | | | |
| RB-17 | DA-17 | 235,495 | 5.4 | 0.78 | 35,621 | 0 | - | 35,621 | 51,289 | 0 | - |
| RB-18 & 28 | DA-18 | 543,330 | 12.5 | 0.79 | 83,489 | 0 | - | 185,690 | 211,819 | 0 | - |
| | DA-22 | 346,721 | 8.0 | 0.82 | 55,281 | | | | | | |
| RB-19 | DA-28 | 307,177 | 7.1 | 0.79 | 46,920 | 0 | - | 47,659 | 52,397 | 0 | - |
| | DA-19 | 224,952 | 5.2 | 0.80 | 34,820 | | | | | | |
| RB-20 | DA-64 | 79,555 | 1.8 | 0.83 | 12,838 | 0 | - | 133,295 | 151,350 | 0 | - |
| | DA-20 | 512,505 | 11.8 | 0.77 | 76,294 | | | | | | |
| RB-21 & 24 | DA-23 | 275,264 | 6.3 | 0.81 | 43,310 | 0 | - | 190,004 | 153,824 | 36,180 | RB-25 |
| | DA-66 | 77,517 | 1.8 | 0.91 | 13,691 | | | | | | |
| | DA-21 | 526,334 | 12.1 | 0.80 | 81,714 | | | | | | |
| RB-25 | DA-24 | 688,258 | 15.8 | 0.81 | 108,290 | 0 | - | 129,923 | 223,024 | 0 | - |
| RB-26 | DA-25 | 620,257 | 14.2 | 0.78 | 93,743 | 36,180 | RB-21 & 24 | 12,401 | 13,843 | 0 | - |
| RB-27 | DA-26 | 86,041 | 2.0 | 0.75 | 12,401 | 0 | - | 44,636 | 54,737 | 0 | - |
| RB-29 | DA-27 | 285,598 | 6.6 | 0.81 | 44,636 | 0 | - | 173,288 | 182,610 | 0 | - |
| RB-30 | DA-29 | 1,108,535 | 25.4 | 0.81 | 173,288 | 0 | - | 38,687 | 40,564 | 0 | - |
| RB-31 | DA-30 | 254,044 | 5.8 | 0.79 | 38,687 | 0 | - | 19,749 | 51,679 | 0 | - |
| RB-32 | DA-31 | 133,596 | 3.1 | 0.76 | 19,749 | 0 | - | 67,064 | 91,983 | 0 | - |
| | DA-32 | 347,046 | 8.0 | 0.50 | 33,548 | | | | | | |
| RB-33 | DA-35 | 200,320 | 4.6 | 0.87 | 33,517 | 0 | - | 41,511 | 69,249 | 0 | - |
| | DA-33 | 221,401 | 5.1 | 0.78 | 33,521 | | | | | | |
| RB-34 | DA-70 | 45,683 | 1.0 | 0.90 | 7,990 | 0 | - | 20,667 | 20,700 | 0 | - |
| | DA-34 | 137,786 | 3.2 | 0.78 | 20,667 | | | | | | |
| RB-37 | DA-36 | 168,791 | 3.9 | 0.84 | 27,466 | 0 | - | 93,641 | 124,604 | 0 | - |
| | DA-37 | 345,912 | 7.9 | 0.77 | 51,317 | | | | | | |
| RB-38 | DA-71 | 91,565 | 2.1 | 0.84 | 14,857 | 0 | - | 76,123 | 81,490 | 0 | - |
| RB-39 | DA-38 | 437,487 | 10.0 | 0.90 | 76,123 | 0 | - | 75,190 | 78,401 | 0 | - |
| RB-40 | DA-39 | 468,532 | 10.8 | 0.81 | 73,181 | 2,009 | RB-40 | 33,188 | 31,179 | 2,009 | RB-39 |
| RB-41 | DA-40 | 215,867 | 5.0 | 0.80 | 33,188 | 0 | - | 11,394 | 44,369 | 0 | - |
| RB-42 | DA-41 | 80,254 | 1.8 | 0.73 | 11,394 | 0 | - | 50,674 | 125,494 | 0 | - |
| RB-43 | DA-42 | 341,924 | 7.8 | 0.77 | 50,674 | 0 | - | 109,878 | 131,878 | 0 | - |
| RB-44 | DA-43 | 710,390 | 16.3 | 0.80 | 109,878 | 0 | - | 119,968 | 96,047 | 23,921 | DA-57 |
| RB-45 | DA-44 | 778,208 | 17.9 | 0.80 | 119,968 | 1,648 | RB-67 | 42,867 | 45,725 | 0 | - |
| | DA-45 | 264,432 | 6.1 | 0.81 | 41,219 | | | | | | |
| RB-46 | DA-46 | 668,329 | 15.3 | 0.78 | 101,358 | 0 | - | 101,358 | 165,906 | 0 | - |
| RB-47 | DA-47 | 325,403 | 7.5 | 0.76 | 47,820 | 0 | - | 47,820 | 27,474 | 20,346 | RB-49 |
| RB-48 | DA-48 | 754,737 | 17.3 | 0.79 | 115,680 | 0 | - | 115,680 | 138,863 | 0 | - |
| RB-49 | DA-49 | 570,331 | 13.1 | 0.79 | 87,142 | 20,346 | RB-47 | 107,488 | 127,520 | 0 | - |
| RB-50 | DA-50 | 620,088 | 14.2 | 0.79 | 94,860 | 0 | - | 94,860 | 126,278 | 0 | - |
| RB-51 | DA-51 | 548,176 | 12.6 | 0.78 | 82,745 | 0 | - | 82,745 | 98,094 | 0 | - |
| RB-52 | DA-52 | 251,151 | 5.8 | 0.80 | 39,074 | 0 | - | 39,074 | 41,045 | 0 | - |
| RB-53 | DA-53 | 504,639 | 11.6 | 0.75 | 73,291 | 0 | - | 73,291 | 201,018 | 0 | - |
| RB-54 | DA-54 | 769,739 | 17.7 | 0.80 | 119,534 | 0 | - | 119,534 | 138,515 | 0 | - |
| RB-55 | DA-55 | 571,218 | 13.1 | 0.76 | 83,386 | 16,248 | RB-56 | 99,634 | 162,378 | 0 | - |
| RB-56 | DA-56 | 533,928 | 12.3 | 0.78 | 80,752 | 0 | - | 80,752 | 64,504 | 16,248 | RB-55 |
| RB-57 | DA-57 | 946,517 | 21.7 | 0.80 | 146,017 | 23,921 | RB-44 | 191,671 | 245,809 | 0 | - |
| | DA-73 | 150,106 | 3.4 | 0.75 | 21,733 | | | | | | |
| RB-58 | DA-58 | 143,787 | 3.3 | 0.81 | 22,432 | 0 | - | 22,432 | 22,600 | 0 | - |
| RB-62 | DA-62 | 285,639 | 6.6 | 0.82 | 45,300 | 0 | - | 45,300 | 47,398 | 0 | - |
| RB-65 | DA-65 | 99,461 | 2.3 | 0.79 | 15,131 | 0 | - | 15,131 | 40,381 | 0 | - |
| RB-67 | DA-67 | 157,338 | 3.6 | 0.81 | 24,599 | 0 | - | 44,239 | 42,591 | 1,648 | RB-45 |
| | DA-68 | 136,639 | 3.1 | 0.74 | 19,640 | | | | | | |
| RB-72 | DA-69 | 111,029 | 2.5 | 0.75 | 16,078 | 0 | - | 32,085 | 38,903 | 0 | - |
| | DA-72 | 98,033 | 2.3 | 0.84 | 16,007 | | | | | | |



APPENDIX D

PRELIMINARY HEC-RAS RESULTS

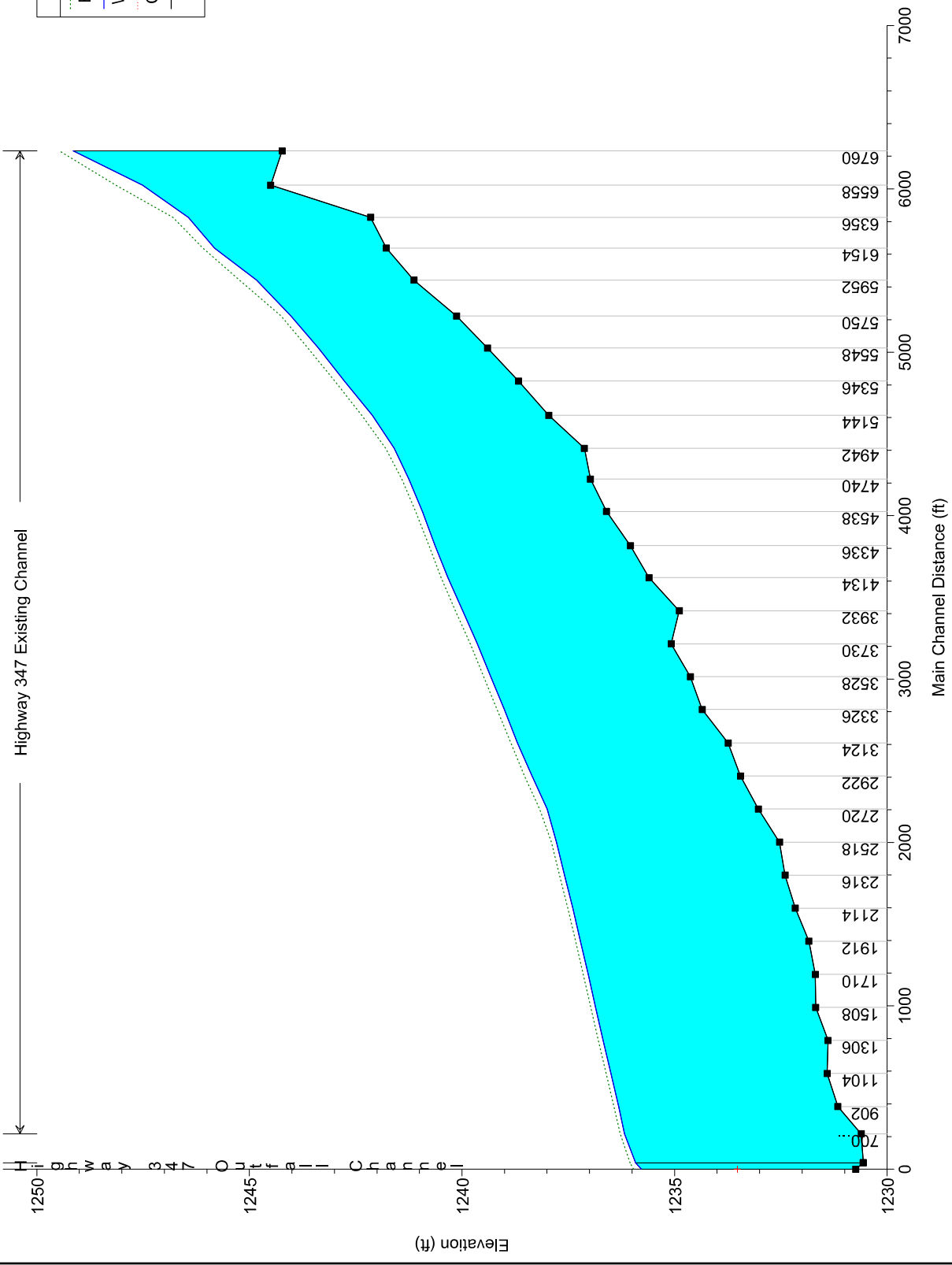
HEC-RAS Model Plan: Default Scenario 9/2/2020



HEC-RAS Model Plan: Default Scenario 9/2/2020

Highway 347 Existing Channel

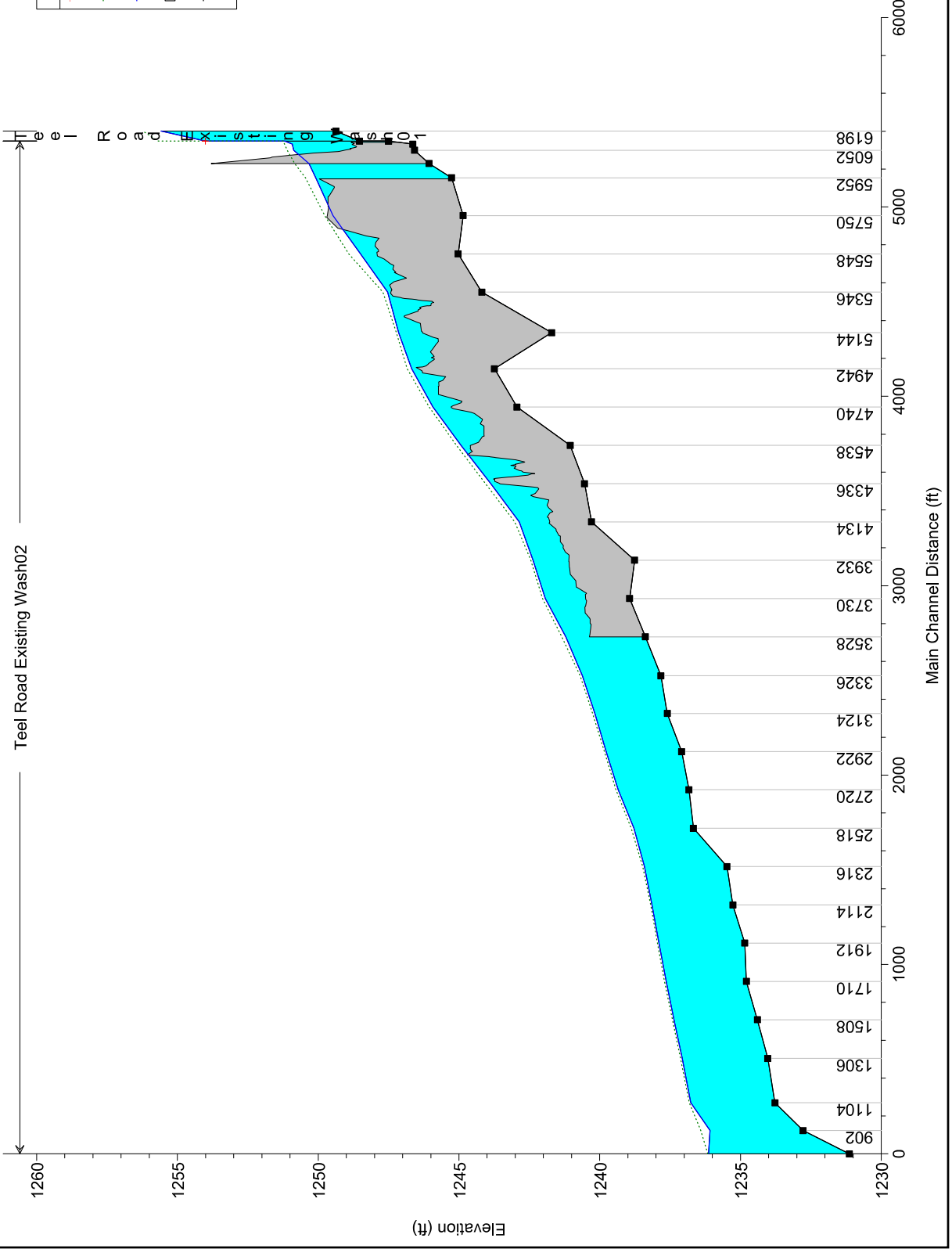
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| WS PF# 1 | |
| Crit PF# 1 | |
| Ground | |

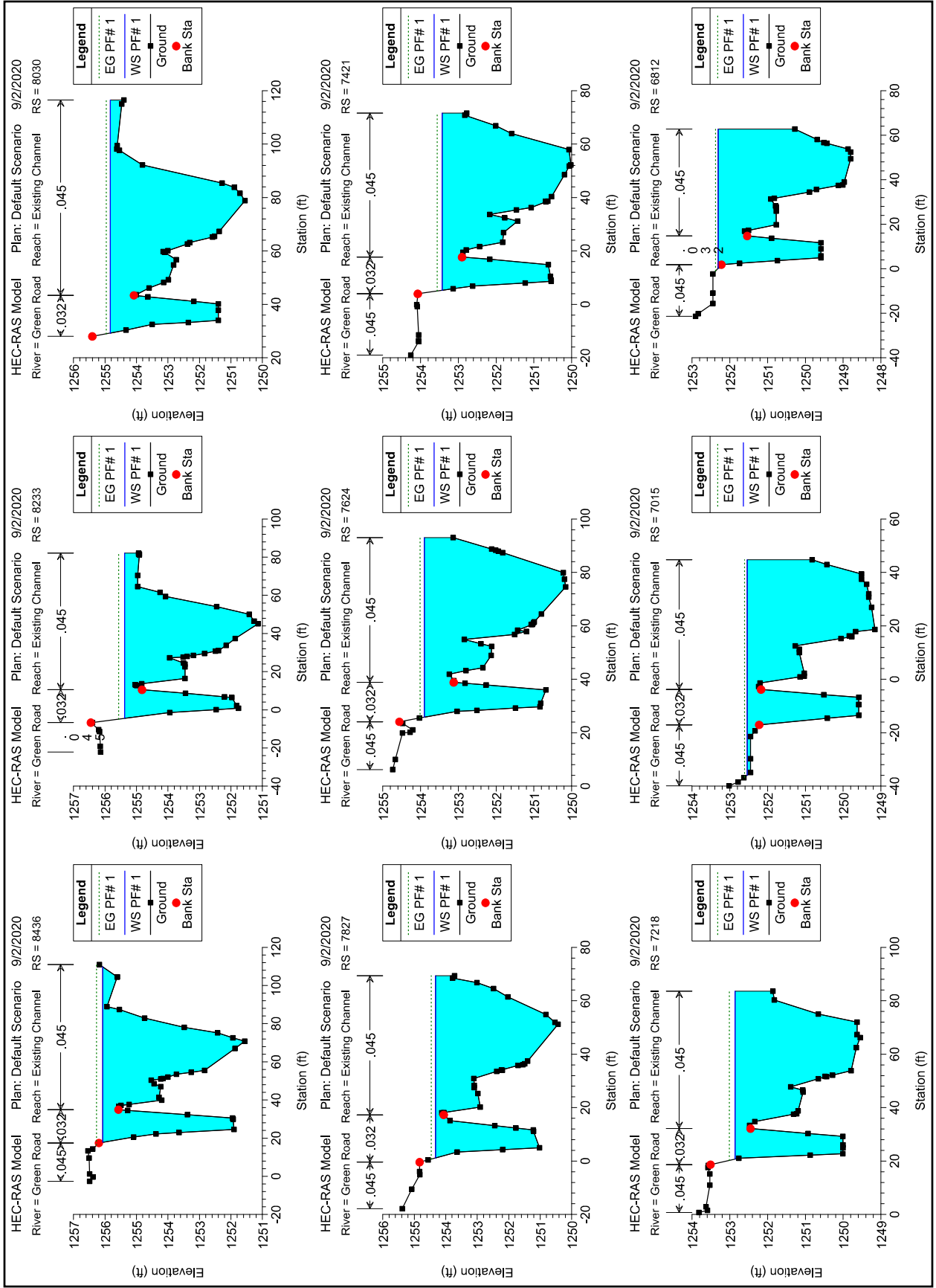


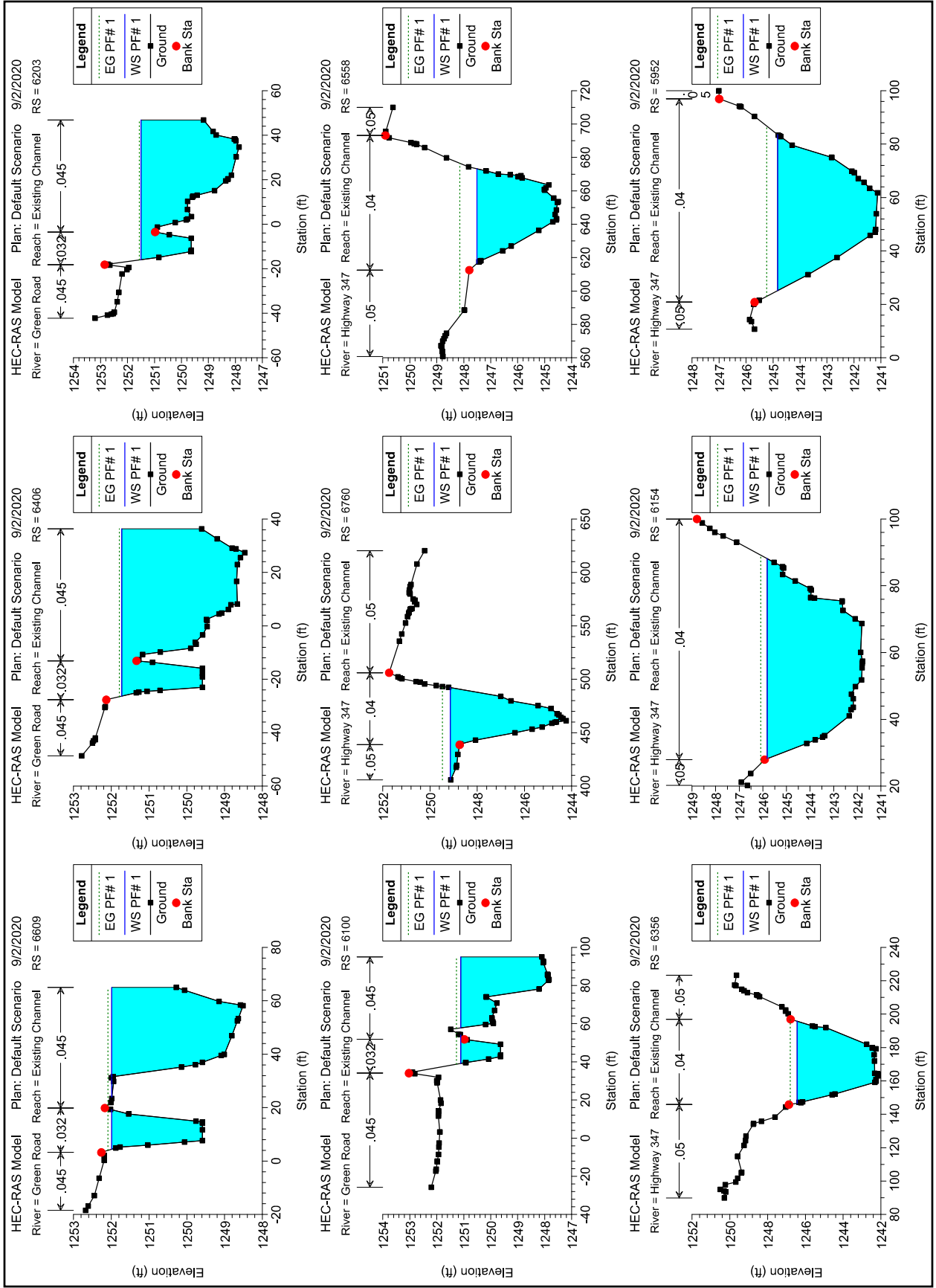
HEC-RAS Model Plan: Default Scenario 9/2/2020

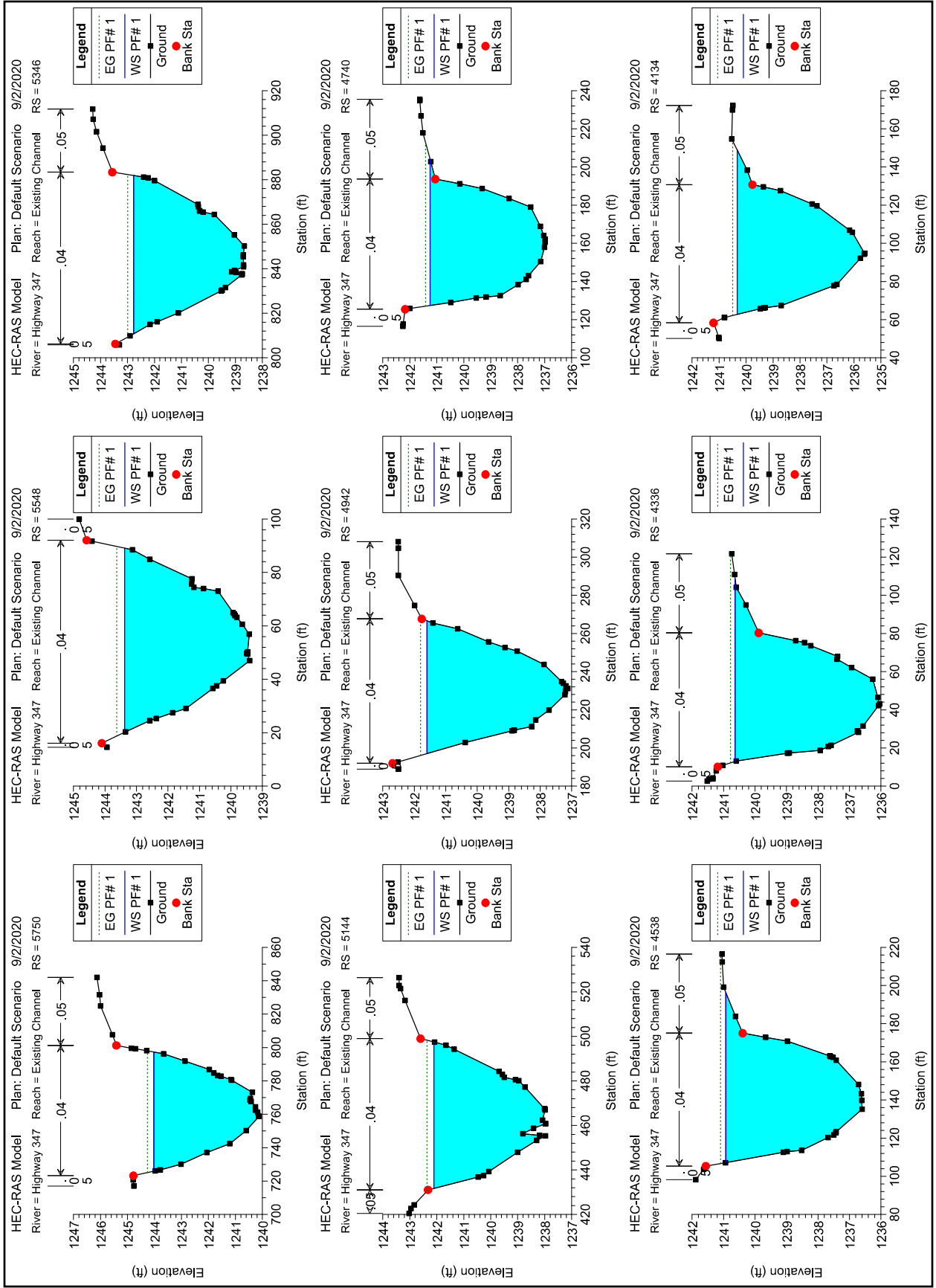
Teel Road Existing Wash02

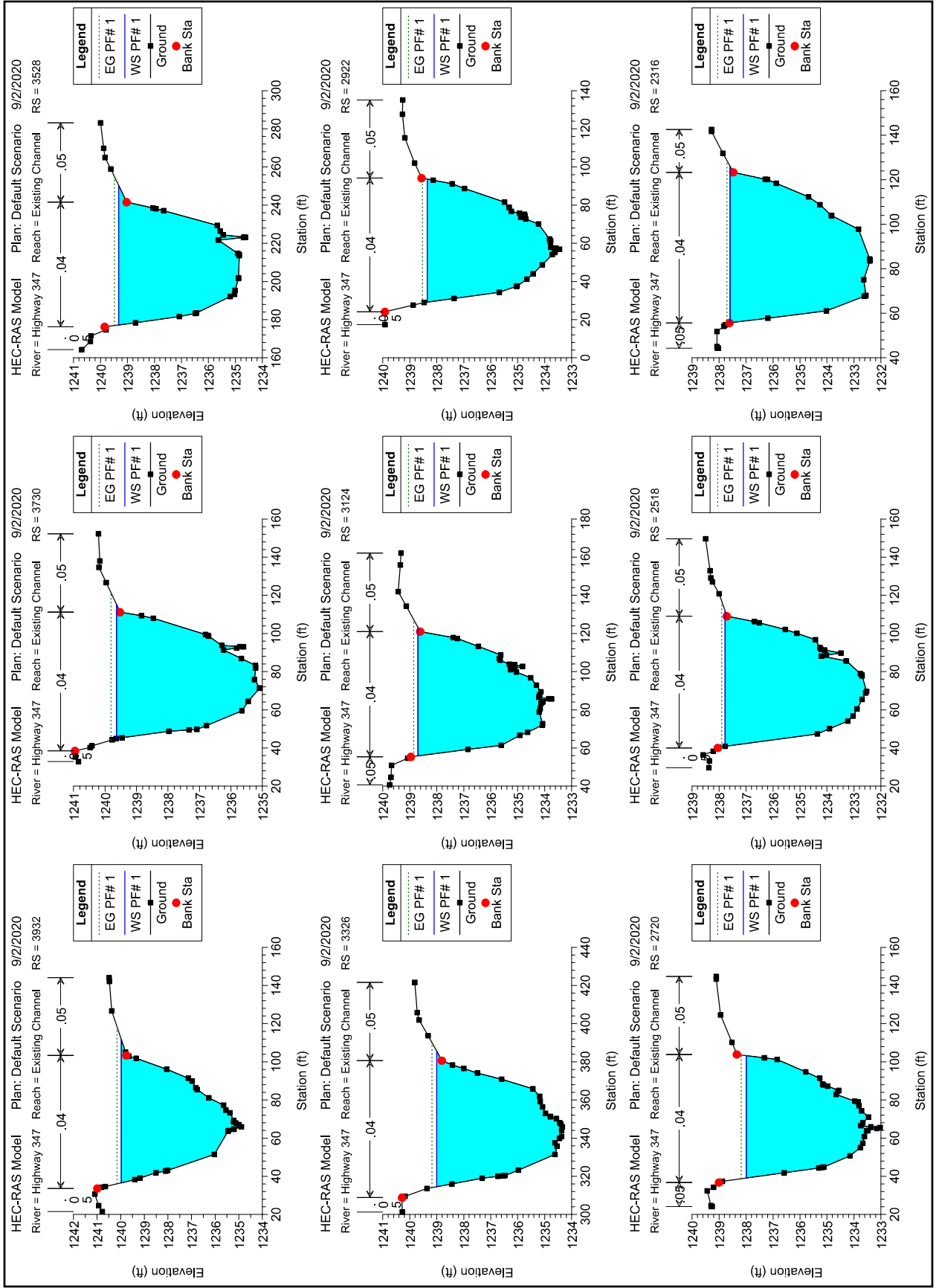
| Legend | |
|------------|-----|
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| EG PF# 1 | —·— |
| WS PF# 1 | — — |
| Lat Struct | █ |
| Ground | —■— |

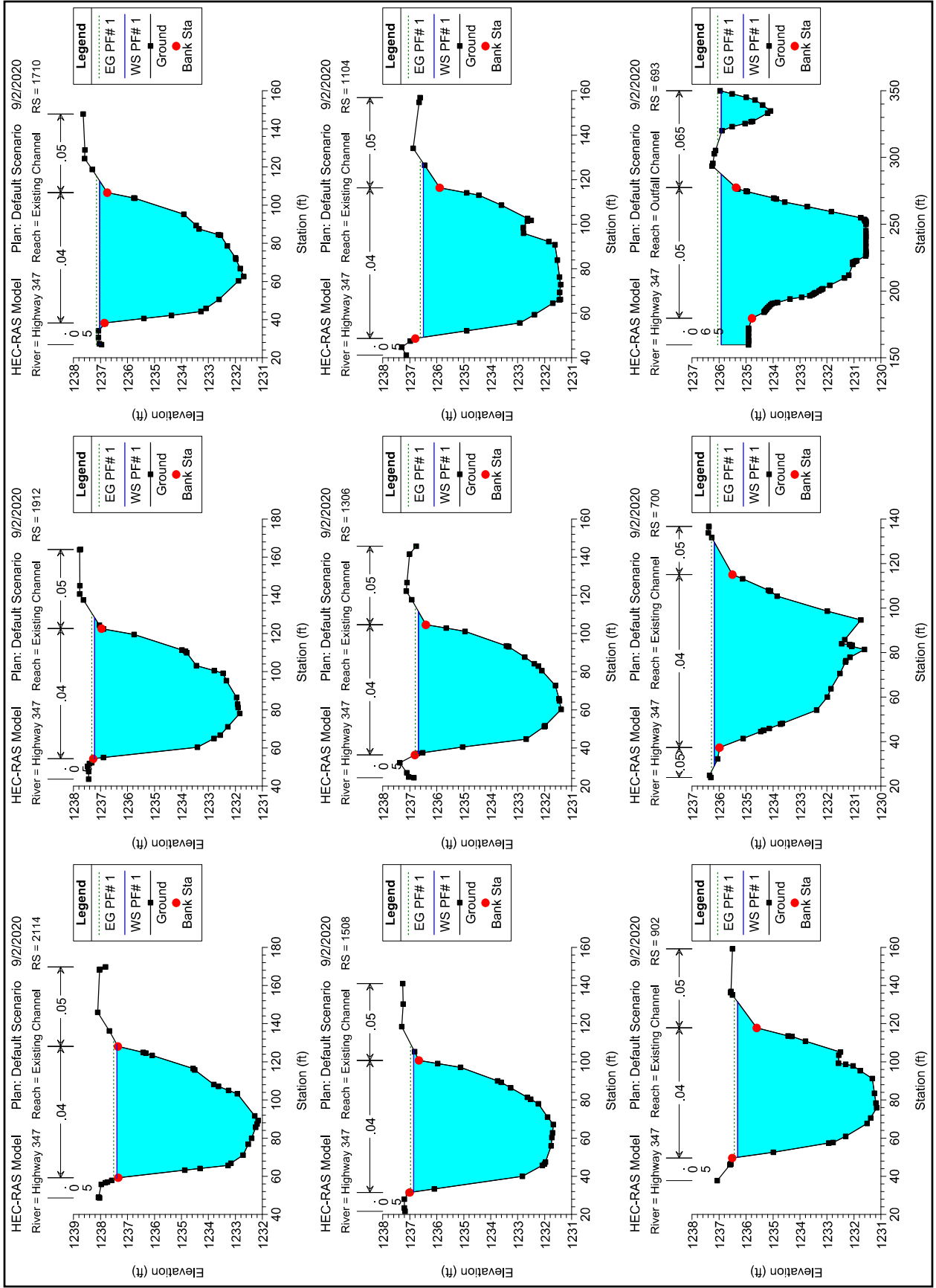


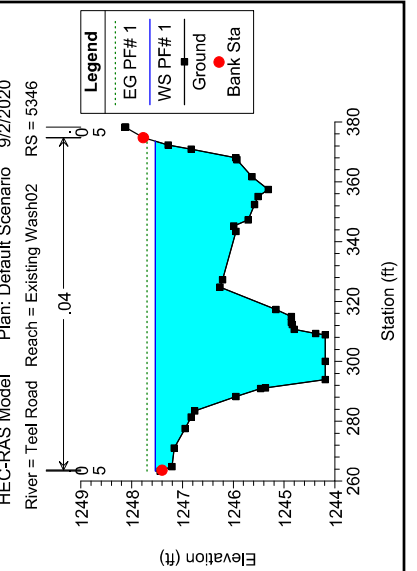
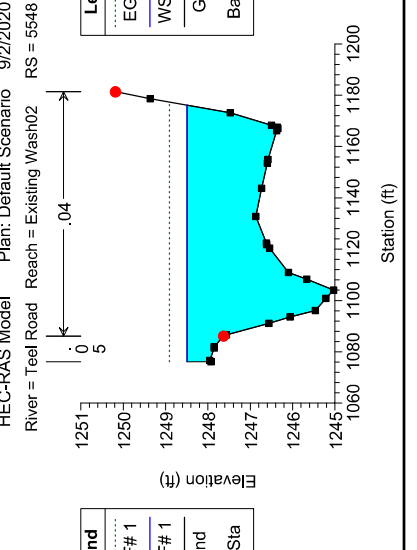
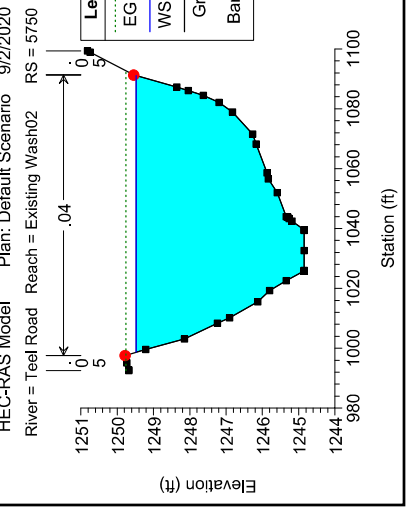
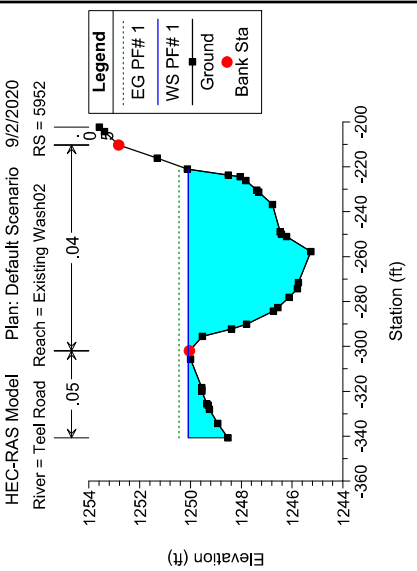
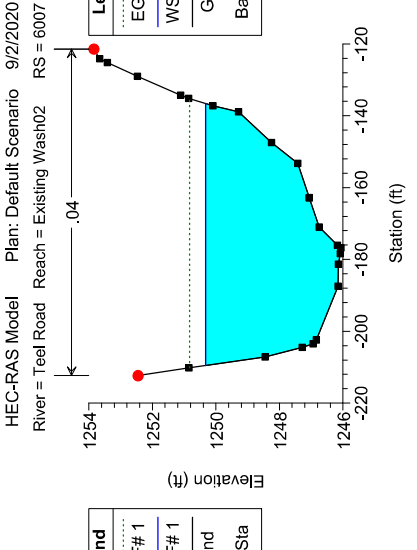
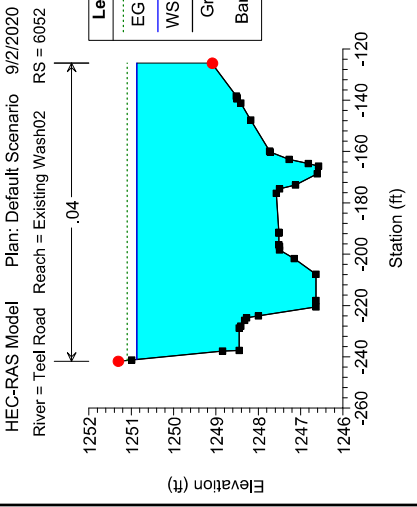
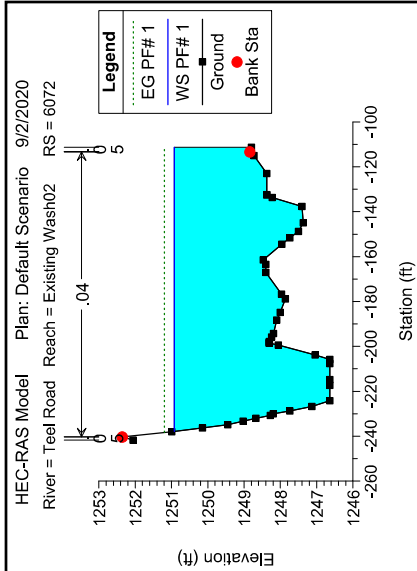
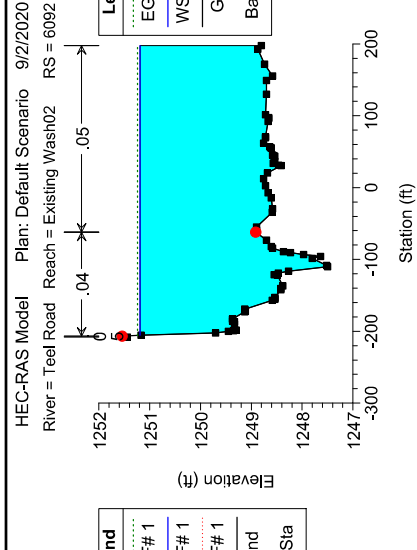
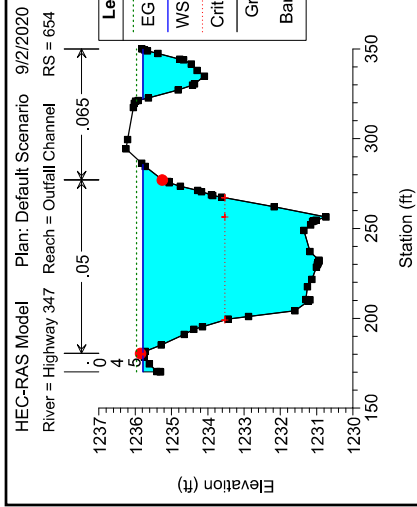


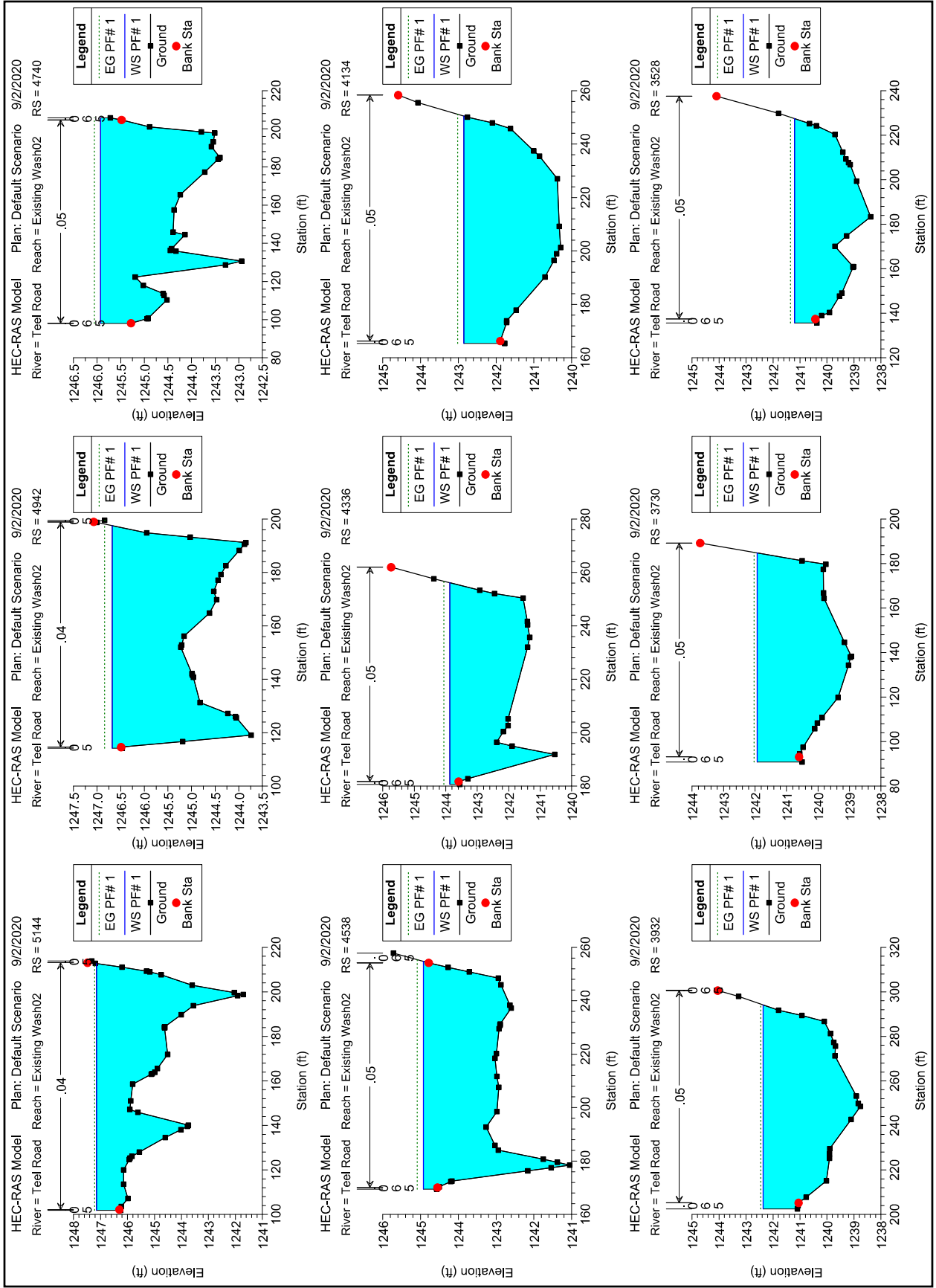


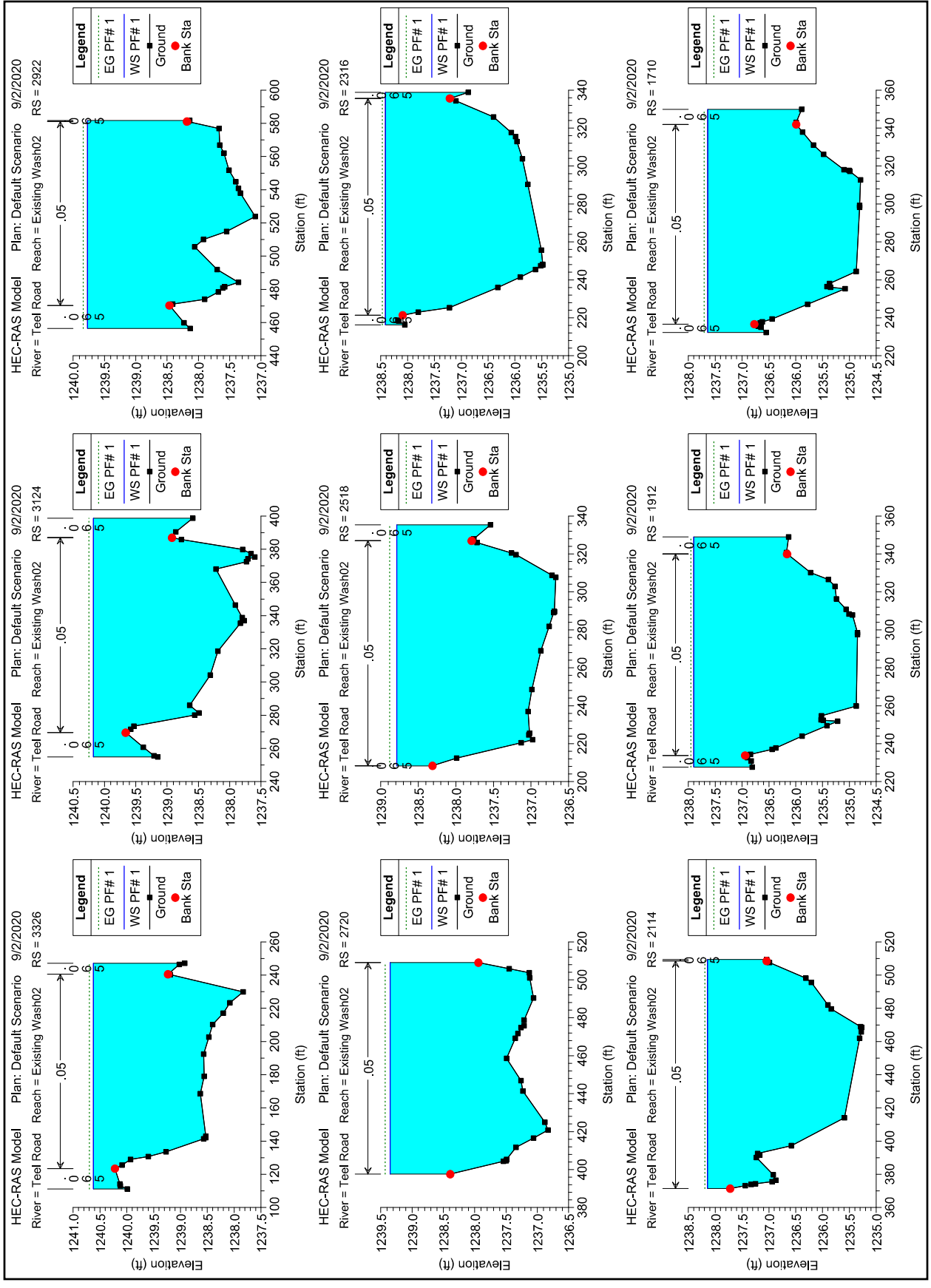


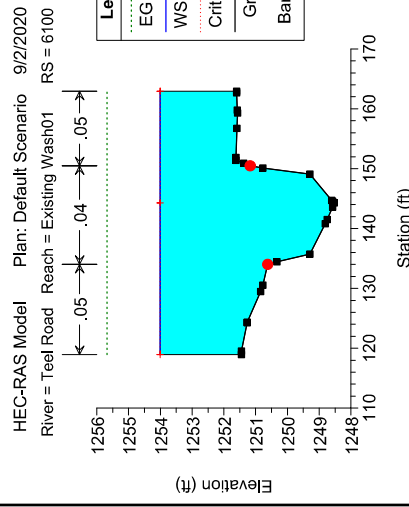
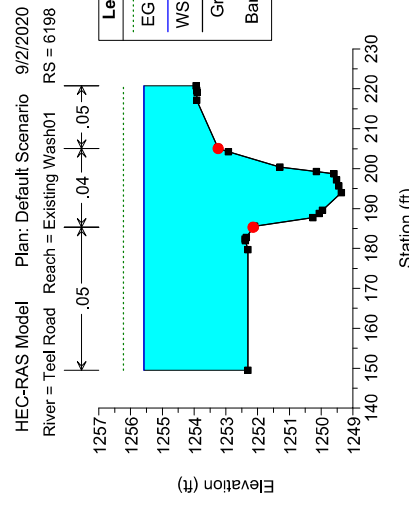
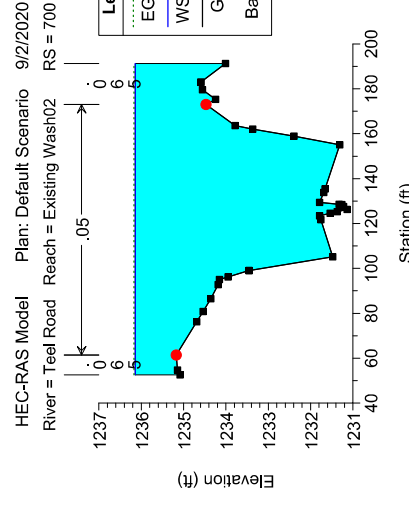
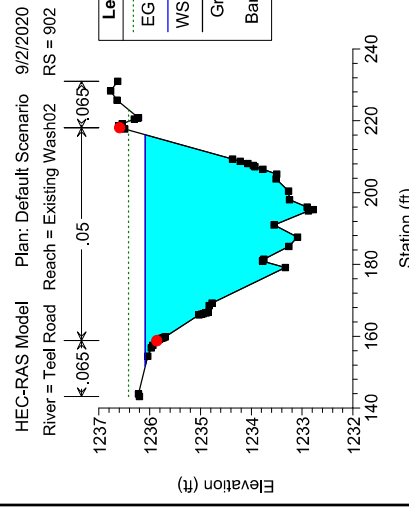
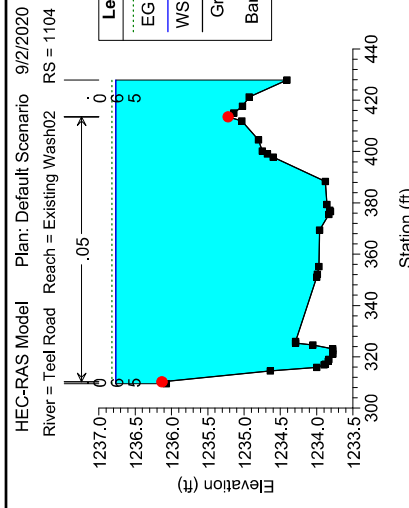
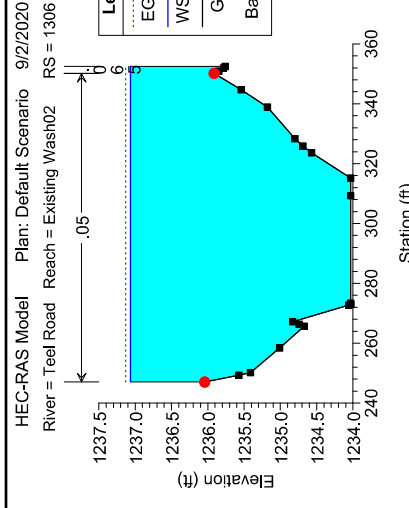
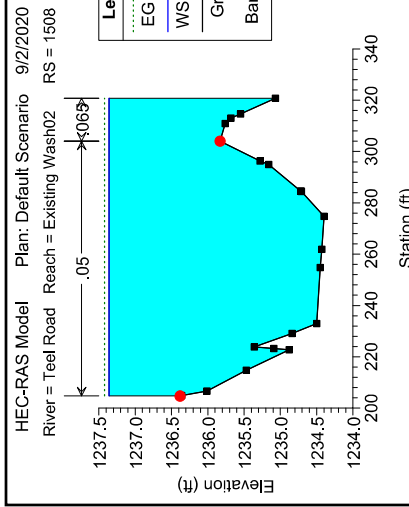












HEC-RAS Plan: Default Scenario Profile: PF# 1

| River | Reach | River Sta | Profile | Q Total (cfs) | Min Ch El (ft) | W.S. Elev (ft) | Crit W.S. (ft) | E.G. Elev (ft) | E.G. Slope (ft/ft) | Vel Chnl (ft/s) | Flow Area (sq ft) | Top Width (ft) | Froude # Chl |
|-------------|------------------|-----------|------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------------------|--------------------|----------------------|-------------------|--------------|
| Teel Road | Existing Wash01 | 6198 | PF# 1 | 1409.00 | 1249.37 | 1255.58 | | 1256.22 | 0.005664 | 7.73 | 246.70 | 71.28 | 0.61 |
| Teel Road | Existing Wash01 | 6100 | PF# 1 | 1409.00 | 1248.53 | 1254.00 | 1254.00 | 1255.68 | 0.013903 | 11.88 | 154.71 | 43.98 | 0.95 |
| Teel Road | Existing Wash02 | 6092 | PF# 1 | 1703.98 | 1247.50 | 1251.19 | | 1251.24 | 0.000792 | 1.94 | 1014.14 | 403.08 | 0.21 |
| Teel Road | Existing Wash02 | 6085 | Lat Struct | | | | | | | | | | |
| Teel Road | Existing Wash02 | 6072 | PF# 1 | 1585.25 | 1246.64 | 1250.92 | | 1251.19 | 0.002879 | 4.16 | 383.35 | 126.52 | 0.42 |
| Teel Road | Existing Wash02 | 6052 | PF# 1 | 1375.86 | 1246.58 | 1250.87 | | 1251.10 | 0.002384 | 3.81 | 361.18 | 115.49 | 0.38 |
| Teel Road | Existing Wash02 | 6007 | PF# 1 | 1293.41 | 1246.06 | 1250.33 | | 1250.83 | 0.005313 | 5.70 | 226.94 | 72.94 | 0.57 |
| Teel Road | Existing Wash02 | 5952 | PF# 1 | 1293.41 | 1245.26 | 1250.08 | | 1250.45 | 0.003884 | 4.94 | 280.42 | 119.63 | 0.49 |
| Teel Road | Existing Wash02 | 5948 | Lat Struct | | | | | | | | | | |
| Teel Road | Existing Wash02 | 5750 | PF# 1 | 1277.05 | 1244.85 | 1249.48 | | 1249.76 | 0.002855 | 4.30 | 297.08 | 92.40 | 0.42 |
| Teel Road | Existing Wash02 | 5548 | PF# 1 | 968.05 | 1245.03 | 1248.49 | | 1248.91 | 0.007775 | 5.23 | 189.33 | 100.02 | 0.65 |
| Teel Road | Existing Wash02 | 5346 | PF# 1 | 624.72 | 1244.19 | 1247.54 | | 1247.70 | 0.003701 | 3.26 | 191.77 | 110.24 | 0.43 |
| Teel Road | Existing Wash02 | 5144 | PF# 1 | 532.58 | 1241.71 | 1247.14 | | 1247.22 | 0.001295 | 2.22 | 240.57 | 110.81 | 0.26 |
| Teel Road | Existing Wash02 | 4942 | PF# 1 | 532.58 | 1243.74 | 1246.68 | | 1246.84 | 0.003156 | 3.25 | 164.02 | 83.33 | 0.41 |
| Teel Road | Existing Wash02 | 4740 | PF# 1 | 532.58 | 1242.94 | 1245.93 | | 1246.06 | 0.004756 | 2.92 | 182.97 | 107.82 | 0.39 |
| Teel Road | Existing Wash02 | 4538 | PF# 1 | 532.58 | 1241.05 | 1244.93 | | 1245.09 | 0.004875 | 3.22 | 165.63 | 85.31 | 0.40 |
| Teel Road | Existing Wash02 | 4336 | PF# 1 | 532.58 | 1240.54 | 1243.88 | | 1244.06 | 0.005334 | 3.47 | 153.63 | 75.54 | 0.43 |
| Teel Road | Existing Wash02 | 4134 | PF# 1 | 532.58 | 1240.29 | 1242.86 | | 1243.02 | 0.004862 | 3.23 | 165.45 | 85.12 | 0.41 |
| Teel Road | Existing Wash02 | 3932 | PF# 1 | 532.58 | 1238.76 | 1242.37 | | 1242.45 | 0.001700 | 2.30 | 233.62 | 91.65 | 0.25 |
| Teel Road | Existing Wash02 | 3730 | PF# 1 | 532.58 | 1238.94 | 1241.93 | | 1242.03 | 0.002564 | 2.57 | 209.07 | 94.00 | 0.30 |
| Teel Road | Existing Wash02 | 3528 | PF# 1 | 532.58 | 1238.38 | 1241.20 | | 1241.35 | 0.004640 | 3.10 | 172.75 | 91.86 | 0.40 |
| Teel Road | Existing Wash02 | 3326 | PF# 1 | 532.58 | 1237.83 | 1240.62 | | 1240.70 | 0.002173 | 2.20 | 250.64 | 135.98 | 0.27 |
| Teel Road | Existing Wash02 | 3124 | PF# 1 | 532.58 | 1237.60 | 1240.18 | | 1240.25 | 0.002309 | 2.21 | 254.45 | 143.85 | 0.28 |
| Teel Road | Existing Wash02 | 2922 | PF# 1 | 532.58 | 1237.09 | 1239.77 | | 1239.84 | 0.001793 | 2.11 | 262.17 | 125.23 | 0.25 |
| Teel Road | Existing Wash02 | 2720 | PF# 1 | 532.58 | 1236.83 | 1239.35 | | 1239.43 | 0.002293 | 2.29 | 232.65 | 111.50 | 0.28 |
| Teel Road | Existing Wash02 | 2518 | PF# 1 | 532.58 | 1236.67 | 1238.79 | | 1238.88 | 0.003194 | 2.47 | 220.60 | 127.07 | 0.33 |
| Teel Road | Existing Wash02 | 2316 | PF# 1 | 532.58 | 1235.48 | 1238.41 | | 1238.47 | 0.001339 | 1.94 | 278.43 | 122.64 | 0.22 |
| Teel Road | Existing Wash02 | 2114 | PF# 1 | 532.58 | 1235.27 | 1238.14 | | 1238.19 | 0.001374 | 1.82 | 293.43 | 138.09 | 0.22 |
| Teel Road | Existing Wash02 | 1912 | PF# 1 | 532.58 | 1234.85 | 1237.90 | | 1237.95 | 0.001058 | 1.84 | 301.27 | 121.29 | 0.20 |
| Teel Road | Existing Wash02 | 1710 | PF# 1 | 532.58 | 1234.79 | 1237.64 | | 1237.70 | 0.001430 | 2.02 | 272.54 | 117.70 | 0.23 |
| Teel Road | Existing Wash02 | 1508 | PF# 1 | 532.58 | 1234.40 | 1237.36 | | 1237.42 | 0.001362 | 2.01 | 278.31 | 115.98 | 0.22 |
| Teel Road | Existing Wash02 | 1306 | PF# 1 | 532.58 | 1234.03 | 1237.07 | | 1237.13 | 0.001464 | 2.07 | 259.15 | 105.47 | 0.23 |
| Teel Road | Existing Wash02 | 1104 | PF# 1 | 532.58 | 1233.78 | 1236.77 | | 1236.82 | 0.001184 | 1.91 | 291.60 | 118.41 | 0.21 |
| Teel Road | Existing Wash02 | 902 | PF# 1 | 532.58 | 1232.78 | 1236.09 | | 1236.41 | 0.009498 | 4.59 | 116.51 | 64.41 | 0.57 |
| Teel Road | Existing Wash02 | 700 | PF# 1 | 532.58 | 1231.14 | 1236.14 | | 1236.17 | 0.000474 | 1.41 | 401.48 | 138.65 | 0.14 |
| Highway 347 | Existing Channel | 6760 | PF# 1 | 719.00 | 1244.23 | 1249.15 | | 1249.47 | 0.003771 | 4.59 | 163.87 | 86.33 | 0.47 |
| Highway 347 | Existing Channel | 6558 | PF# 1 | 719.00 | 1244.50 | 1247.51 | | 1248.14 | 0.011984 | 6.37 | 128.82 | 56.75 | 0.80 |
| Highway 347 | Existing Channel | 6356 | PF# 1 | 719.00 | 1242.15 | 1246.43 | | 1246.80 | 0.004016 | 4.83 | 148.86 | 49.18 | 0.49 |
| Highway 347 | Existing Channel | 6154 | PF# 1 | 719.00 | 1241.78 | 1245.82 | | 1246.09 | 0.003251 | 4.20 | 171.34 | 59.90 | 0.44 |
| Highway 347 | Existing Channel | 5952 | PF# 1 | 719.00 | 1241.13 | 1244.83 | | 1245.24 | 0.005974 | 5.12 | 140.56 | 58.43 | 0.58 |
| Highway 347 | Existing Channel | 5750 | PF# 1 | 719.00 | 1240.13 | 1244.02 | | 1244.26 | 0.003113 | 3.89 | 184.98 | 71.41 | 0.43 |
| Highway 347 | Existing Channel | 5548 | PF# 1 | 719.00 | 1239.40 | 1243.98 | | 1243.63 | 0.003325 | 4.02 | 179.01 | 68.94 | 0.44 |
| Highway 347 | Existing Channel | 5346 | PF# 1 | 719.00 | 1238.67 | 1242.77 | | 1243.00 | 0.002892 | 3.80 | 189.08 | 71.15 | 0.41 |

HEC-RAS Plan: Default Scenario Profile: PF# 1 (Continued)

| River | Reach | River Sta | Profile | Q Total (cfs) | Min Ch El (ft) | W.S. Elev (ft) | Crit W.S. (ft) | E.G. Elev (ft) | E.G. Slope (ft/ft) | Vel Chnl (ft/s) | Flow Area (sq ft) | Top Width (ft) | Froude # Chl |
|-------------|------------------|-----------|------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------------------|--------------------|----------------------|-------------------|--------------|
| Highway 347 | Existing Channel | 5144 | PF# 1 | 719.00 | 1237.96 | 1242.11 | | 1242.36 | 0.003135 | 4.01 | 179.32 | 65.78 | 0.43 |
| Highway 347 | Existing Channel | 4942 | PF# 1 | 719.00 | 1237.12 | 1241.59 | | 1241.80 | 0.002376 | 3.62 | 198.67 | 69.53 | 0.38 |
| Highway 347 | Existing Channel | 4740 | PF# 1 | 719.00 | 1236.98 | 1241.25 | | 1241.42 | 0.001649 | 3.30 | 219.02 | 76.92 | 0.32 |
| Highway 347 | Existing Channel | 4538 | PF# 1 | 719.00 | 1236.60 | 1240.93 | | 1241.09 | 0.001609 | 3.24 | 226.50 | 89.12 | 0.32 |
| Highway 347 | Existing Channel | 4336 | PF# 1 | 719.00 | 1236.04 | 1240.63 | | 1240.78 | 0.001365 | 3.09 | 240.90 | 95.47 | 0.29 |
| Highway 347 | Existing Channel | 4134 | PF# 1 | 719.00 | 1235.60 | 1240.33 | | 1240.49 | 0.001561 | 3.21 | 228.46 | 86.23 | 0.31 |
| Highway 347 | Existing Channel | 3932 | PF# 1 | 719.00 | 1234.89 | 1239.98 | | 1240.15 | 0.001766 | 3.35 | 215.39 | 75.24 | 0.33 |
| Highway 347 | Existing Channel | 3730 | PF# 1 | 719.00 | 1235.08 | 1239.64 | | 1239.81 | 0.001663 | 3.30 | 218.14 | 70.32 | 0.32 |
| Highway 347 | Existing Channel | 3528 | PF# 1 | 719.00 | 1234.63 | 1239.33 | | 1239.49 | 0.001482 | 3.22 | 224.68 | 73.18 | 0.30 |
| Highway 347 | Existing Channel | 3326 | PF# 1 | 719.00 | 1234.35 | 1239.01 | | 1239.17 | 0.001644 | 3.30 | 218.44 | 71.09 | 0.32 |
| Highway 347 | Existing Channel | 3124 | PF# 1 | 719.00 | 1233.74 | 1238.70 | | 1238.85 | 0.001465 | 3.19 | 225.25 | 67.34 | 0.30 |
| Highway 347 | Existing Channel | 2922 | PF# 1 | 719.00 | 1233.45 | 1238.35 | | 1238.53 | 0.001719 | 3.37 | 213.30 | 64.51 | 0.33 |
| Highway 347 | Existing Channel | 2720 | PF# 1 | 719.00 | 1233.03 | 1238.00 | | 1238.18 | 0.001780 | 3.41 | 211.03 | 64.16 | 0.33 |
| Highway 347 | Existing Channel | 2518 | PF# 1 | 719.00 | 1232.53 | 1237.78 | | 1237.90 | 0.000972 | 2.77 | 259.57 | 71.03 | 0.25 |
| Highway 347 | Existing Channel | 2316 | PF# 1 | 719.00 | 1232.40 | 1237.59 | | 1237.71 | 0.000931 | 2.75 | 261.84 | 70.19 | 0.25 |
| Highway 347 | Existing Channel | 2114 | PF# 1 | 719.00 | 1232.16 | 1237.39 | | 1237.51 | 0.000982 | 2.77 | 259.17 | 70.15 | 0.25 |
| Highway 347 | Existing Channel | 1912 | PF# 1 | 719.00 | 1231.84 | 1237.22 | | 1237.33 | 0.000837 | 2.65 | 271.75 | 73.90 | 0.23 |
| Highway 347 | Existing Channel | 1710 | PF# 1 | 719.00 | 1231.69 | 1237.03 | | 1237.15 | 0.000907 | 2.72 | 265.75 | 78.36 | 0.24 |
| Highway 347 | Existing Channel | 1508 | PF# 1 | 719.00 | 1231.68 | 1236.86 | | 1236.97 | 0.000848 | 2.65 | 271.45 | 74.59 | 0.24 |
| Highway 347 | Existing Channel | 1306 | PF# 1 | 719.00 | 1231.39 | 1236.68 | | 1236.79 | 0.000892 | 2.72 | 265.49 | 74.35 | 0.24 |
| Highway 347 | Existing Channel | 1104 | PF# 1 | 719.00 | 1231.41 | 1236.50 | | 1236.61 | 0.000899 | 2.72 | 266.78 | 78.18 | 0.24 |
| Highway 347 | Existing Channel | 902 | PF# 1 | 719.00 | 1231.16 | 1236.31 | | 1236.43 | 0.000910 | 2.73 | 267.75 | 81.50 | 0.24 |
| Highway 347 | Existing Channel | 700 | PF# 1 | 719.00 | 1230.61 | 1236.18 | | 1236.28 | 0.000867 | 2.55 | 287.13 | 100.48 | 0.24 |
| Highway 347 | Outfall Channel | 693 | PF# 1 | 1170.58 | 1230.56 | 1235.92 | | 1236.05 | 0.001668 | 2.96 | 434.19 | 159.30 | 0.27 |
| Highway 347 | Outfall Channel | 654 | PF# 1 | 1170.58 | 1230.74 | 1235.78 | 1233.53 | 1235.96 | 0.002676 | 3.46 | 360.78 | 141.27 | 0.33 |
| Green Road | Existing Channel | 8436 | PF# 1 | 613.00 | 1251.90 | 1256.07 | | 1256.27 | 0.003289 | 4.63 | 186.37 | 91.88 | 0.50 |
| Green Road | Existing Channel | 8435 | Lat Struct | | | | | | | | | | |
| Green Road | Existing Channel | 8233 | PF# 1 | 599.24 | 1251.76 | 1255.37 | | 1255.57 | 0.003580 | 4.56 | 177.92 | 86.61 | 0.52 |
| Green Road | Existing Channel | 8030 | PF# 1 | 481.11 | 1251.40 | 1254.93 | | 1254.96 | 0.002338 | 3.63 | 178.23 | 87.31 | 0.41 |
| Green Road | Existing Channel | 7827 | PF# 1 | 455.43 | 1251.02 | 1254.32 | | 1254.46 | 0.002518 | 3.37 | 153.76 | 68.20 | 0.42 |
| Green Road | Existing Channel | 7624 | PF# 1 | 426.86 | 1250.68 | 1253.90 | | 1254.01 | 0.001914 | 3.18 | 160.55 | 67.24 | 0.37 |
| Green Road | Existing Channel | 7421 | PF# 1 | 426.86 | 1250.54 | 1253.42 | | 1253.56 | 0.002566 | 3.54 | 145.91 | 66.34 | 0.43 |
| Green Road | Existing Channel | 7218 | PF# 1 | 426.86 | 1250.00 | 1252.96 | | 1253.02 | 0.002833 | 3.74 | 139.32 | 62.87 | 0.44 |
| Green Road | Existing Channel | 7015 | PF# 1 | 296.54 | 1249.59 | 1252.54 | | 1252.61 | 0.001160 | 2.53 | 146.73 | 80.64 | 0.29 |
| Green Road | Existing Channel | 6812 | PF# 1 | 295.98 | 1249.59 | 1252.31 | | 1252.38 | 0.001155 | 2.45 | 144.41 | 62.61 | 0.29 |
| Green Road | Existing Channel | 6609 | PF# 1 | 295.98 | 1249.59 | 1251.99 | | 1252.09 | 0.001749 | 2.56 | 116.04 | 55.45 | 0.35 |
| Green Road | Existing Channel | 6406 | PF# 1 | 295.98 | 1249.59 | 1251.73 | | 1251.79 | 0.001162 | 2.06 | 146.32 | 62.66 | 0.29 |
| Green Road | Existing Channel | 6203 | PF# 1 | 295.98 | 1249.64 | 1251.50 | | 1251.56 | 0.001116 | 1.90 | 148.37 | 62.77 | 0.28 |
| Green Road | Existing Channel | 6100 | PF# 1 | 295.98 | 1249.64 | 1251.11 | | 1251.27 | 0.003936 | 3.07 | 93.16 | 52.05 | 0.51 |

Plan: Default Scenario Green Road Existing Channel RS: 8435 Lateral Structure Profile: PF# 1

| | | | |
|----------------------------|---------|--------------------------------|---------|
| E.G. US. (ft) | 1256.27 | Weir Sta US (ft) | 104.87 |
| W.S. US. (ft) | 1256.07 | Weir Sta DS (ft) | 1418.08 |
| E.G. DS (ft) | 1252.61 | Min El Weir Flow (ft) | 1250.71 |
| W.S. DS (ft) | 1252.54 | Wr Top Wdth (ft) | 1313.21 |
| Q US (cfs) | 613.00 | Weir Max Depth (ft) | 1.83 |
| Q Leaving Total (cfs) | 2005.69 | Weir Avg Depth (ft) | 0.65 |
| Q DS (cfs) | 295.98 | Weir Flow Area (sq ft) | 849.62 |
| Perc Q Leaving | 51.72 | Weir Coef (ft ^{1/2}) | 2.600 |
| Q Weir (cfs) | 2005.69 | Weir Submerg | 0.00 |
| Q Gates (cfs) | | Q Gate Group (cfs) | |
| Q Culv (cfs) | | Gate Open Ht (ft) | |
| Q Lat RC (cfs) | | Gate #Open | |
| Q Outlet TS (cfs) | 0.00 | Gate Area (sq ft) | |
| Q Breach (cfs) | | Gate Submerg | |
| Breach Avg Velocity (ft/s) | | Gate Invert (ft) | |
| Breach Flow Area (sq ft) | | Gate Weir Coef | |
| Breach WD (ft) | | | |
| Breach Top El (ft) | | | |
| Breach Bottom El (ft) | | | |
| Breach SSL (ft) | | | |
| Breach SSR (ft) | | | |

Plan: Default Scenario Teel Road Existing Wash02 RS: 6085 Lateral Structure Profile: PF# 1

| | | | |
|----------------------------|---------|--------------------------------|---------|
| E.G. US. (ft) | 1251.24 | Weir Sta US (ft) | 0.00 |
| W.S. US. (ft) | 1251.19 | Weir Sta DS (ft) | 80.16 |
| E.G. DS (ft) | 1250.75 | Min El Weir Flow (ft) | 1248.64 |
| W.S. DS (ft) | 1250.27 | Wr Top Wdth (ft) | 80.16 |
| Q US (cfs) | 1703.98 | Weir Max Depth (ft) | 2.36 |
| Q Leaving Total (cfs) | 529.30 | Weir Avg Depth (ft) | 1.80 |
| Q DS (cfs) | 1293.41 | Weir Flow Area (sq ft) | 143.91 |
| Perc Q Leaving | 24.09 | Weir Coef (ft ^{1/2}) | 2.600 |
| Q Weir (cfs) | 529.30 | Weir Submerg | 0.00 |
| Q Gates (cfs) | | Q Gate Group (cfs) | |
| Q Culv (cfs) | | Gate Open Ht (ft) | |
| Q Lat RC (cfs) | | Gate #Open | |
| Q Outlet TS (cfs) | 0.00 | Gate Area (sq ft) | |
| Q Breach (cfs) | | Gate Submerg | |
| Breach Avg Velocity (ft/s) | | Gate Invert (ft) | |
| Breach Flow Area (sq ft) | | Gate Weir Coef | |
| Breach WD (ft) | | | |
| Breach Top El (ft) | | | |
| Breach Bottom El (ft) | | | |
| Breach SSL (ft) | | | |
| Breach SSR (ft) | | | |

Plan: Default Scenario Teel Road Existing Wash02 RS: 5948 Lateral Structure Profile: PF# 1

| | | | |
|-----------------------|---------|------------------------|---------|
| E.G. US. (ft) | 1250.45 | Weir Sta US (ft) | 0.00 |
| W.S. US. (ft) | 1250.08 | Weir Sta DS (ft) | 2428.28 |
| E.G. DS (ft) | 1241.34 | Min El Weir Flow (ft) | 1240.31 |
| W.S. DS (ft) | 1241.19 | Wr Top Wdth (ft) | 2291.88 |
| Q US (cfs) | 1293.41 | Weir Max Depth (ft) | 1.82 |
| Q Leaving Total (cfs) | 5698.49 | Weir Avg Depth (ft) | 0.92 |
| Q DS (cfs) | 532.58 | Weir Flow Area (sq ft) | 2115.98 |

Plan: Default Scenario Teel Road Existing Wash02 RS: 5948 Lateral Structure Profile: PF# 1 (Continued)

| | | | |
|----------------------------|---------|--------------------------------|-------|
| Perc Q Leaving | 58.82 | Weir Coef (ft ^{1/2}) | 2.600 |
| Q Weir (cfs) | 5698.49 | Weir Submerg | 0.00 |
| Q Gates (cfs) | | Q Gate Group (cfs) | |
| Q Culv (cfs) | | Gate Open Ht (ft) | |
| Q Lat RC (cfs) | | Gate #Open | |
| Q Outlet TS (cfs) | 0.00 | Gate Area (sq ft) | |
| Q Breach (cfs) | | Gate Submerg | |
| Breach Avg Velocity (ft/s) | | Gate Invert (ft) | |
| Breach Flow Area (sq ft) | | Gate Weir Coef | |
| Breach WD (ft) | | | |
| Breach Top El (ft) | | | |
| Breach Bottom El (ft) | | | |
| Breach SSL (ft) | | | |
| Breach SSR (ft) | | | |



APPENDIX E

PRELIMINARY HYDRAFLOW RESULTS

Channel Report

2232 Midway - Northern Channel Section 1_ HELM FLO-2D

User-defined

Invert Elev (ft) = 10.00
Slope (%) = 0.30
N-Value = 0.032

Highlighted

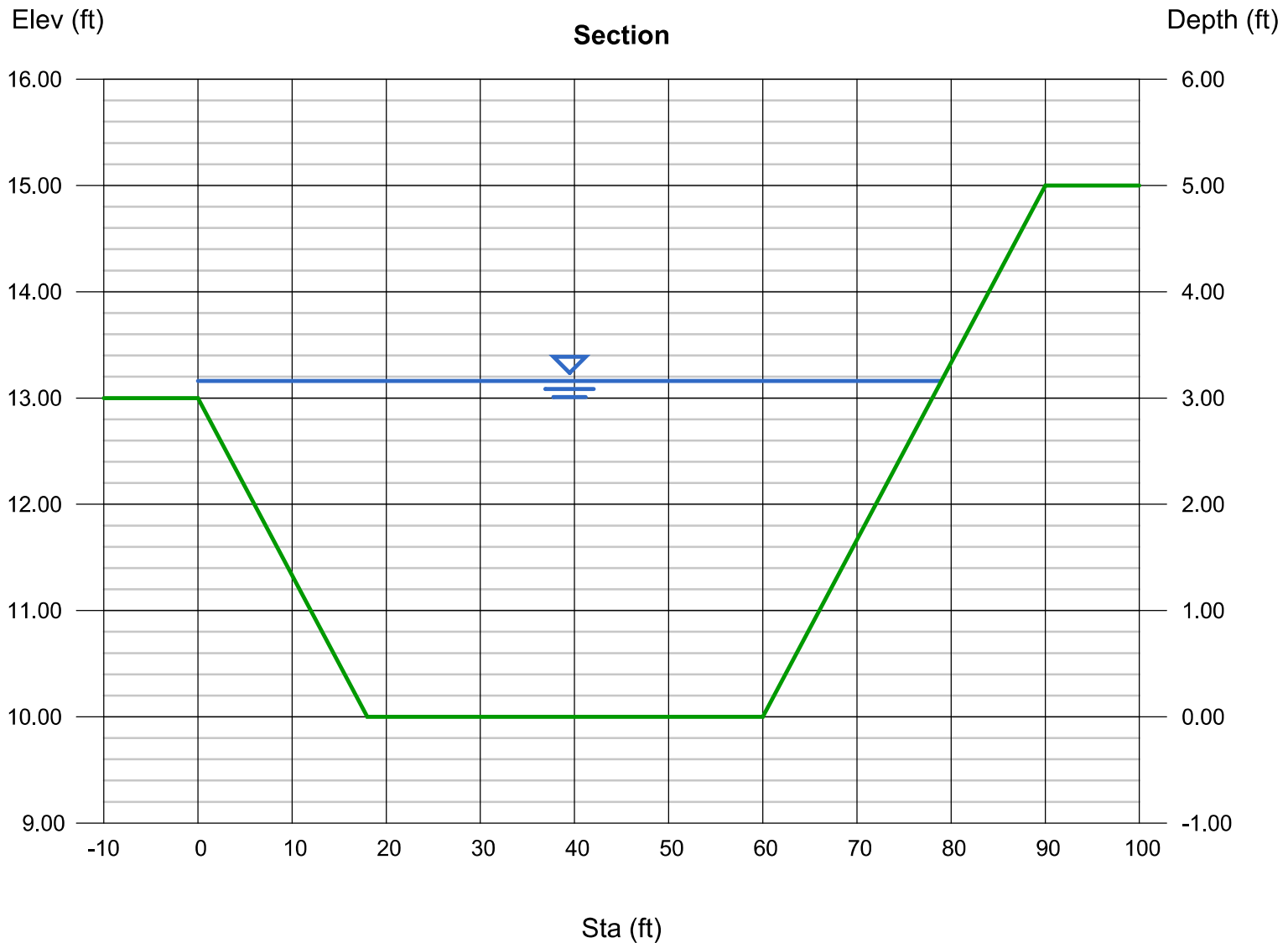
Depth (ft) = 3.16
Q (cfs) = 880.00
Area (sqft) = 192.56
Velocity (ft/s) = 4.57
Wetted Perim (ft) = 79.47
Crit Depth, Yc (ft) = 2.15
Top Width (ft) = 78.96
EGL (ft) = 3.48

Calculations

Compute by: Known Q
Known Q (cfs) = 880.00

(Sta, El, n)-(Sta, El, n)...

(0.00, 13.00)-(18.00, 10.00, 0.032)-(60.00, 10.00, 0.032)-(90.00, 15.00, 0.032)



Channel Report

2232 Midway - Northern Channel Section 1_ HILGARTWILSON HEC-1

User-defined

Invert Elev (ft) = 10.00
Slope (%) = 0.30
N-Value = 0.032

Highlighted

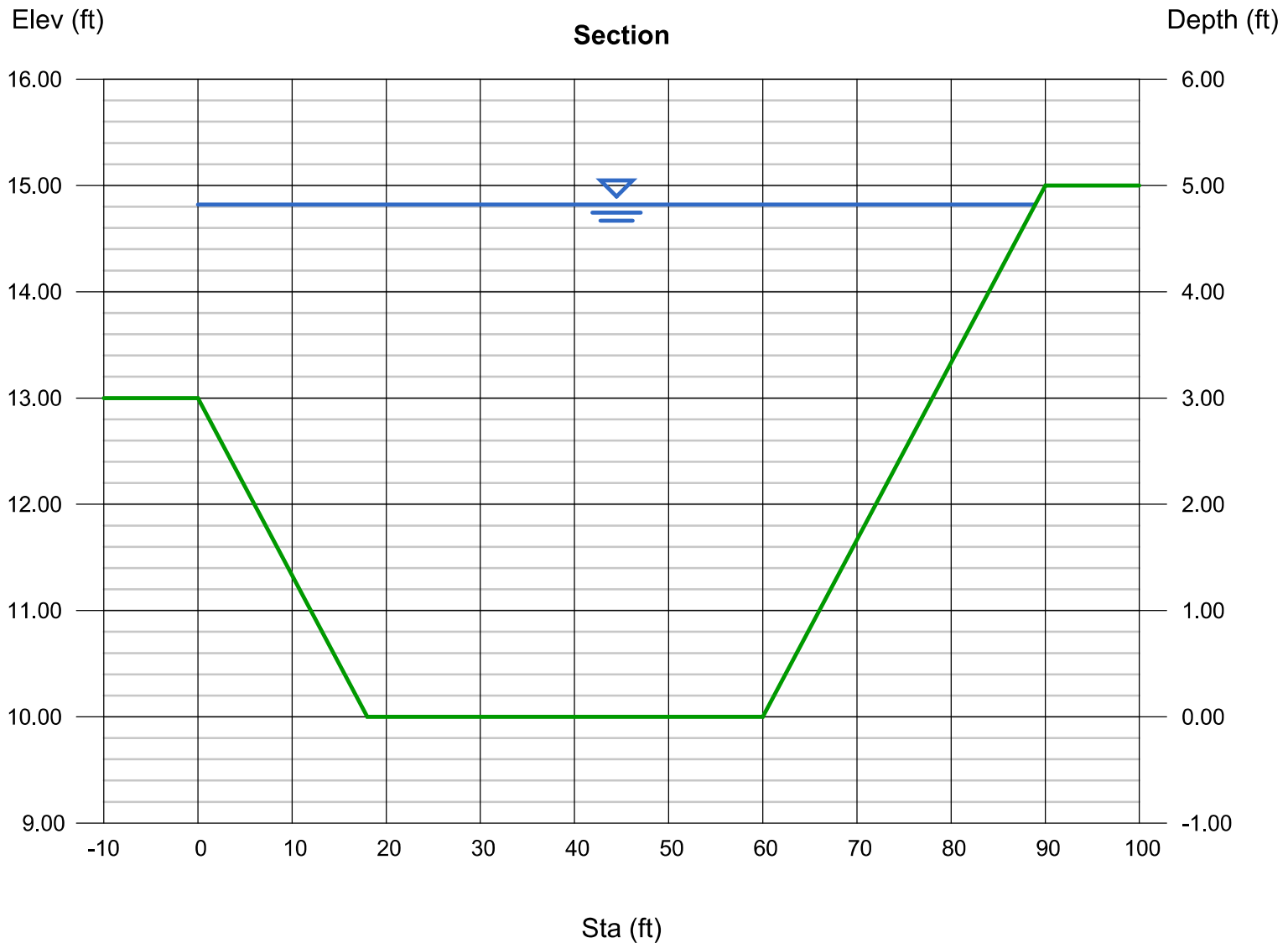
Depth (ft) = 4.82
Q (cfs) = 2,021
Area (sqft) = 331.90
Velocity (ft/s) = 6.09
Wetted Perim (ft) = 89.57
Crit Depth, Yc (ft) = 3.48
Top Width (ft) = 88.92
EGL (ft) = 5.40

Calculations

Compute by: Known Q
Known Q (cfs) = 2021.00

(Sta, El, n)-(Sta, El, n)...

(0.00, 13.00)-(18.00, 10.00, 0.032)-(60.00, 10.00, 0.032)-(90.00, 15.00, 0.032)



Channel Report

2232 Midway - Northern Channel Section 2_FLO-2D & HEC-1

Trapezoidal

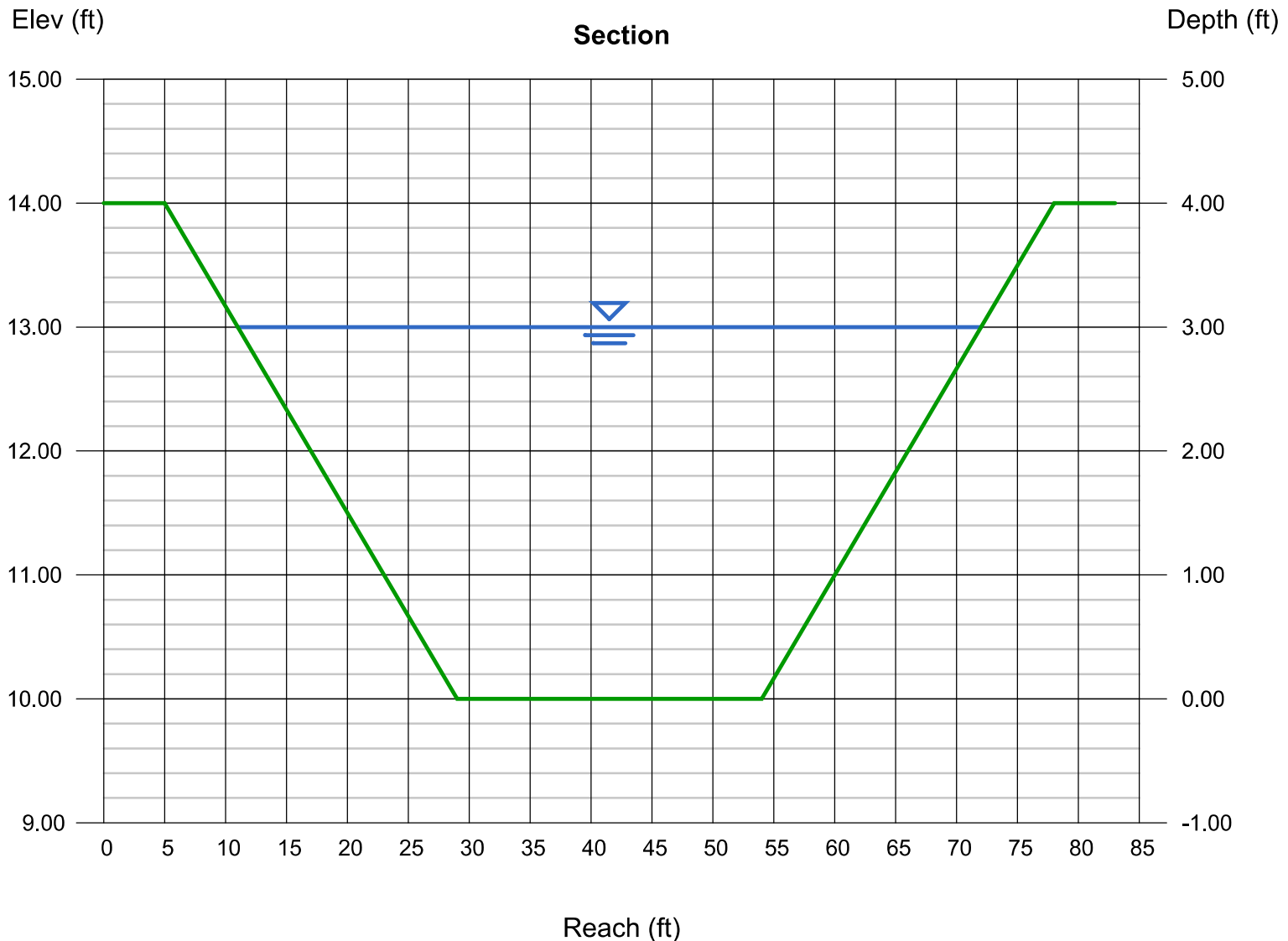
Bottom Width (ft) = 25.00
Side Slopes (z:1) = 6.00, 6.00
Total Depth (ft) = 4.00
Invert Elev (ft) = 10.00
Slope (%) = 0.30
N-Value = 0.032

Highlighted

Depth (ft) = 3.00
Q (cfs) = 535.00
Area (sqft) = 129.00
Velocity (ft/s) = 4.15
Wetted Perim (ft) = 61.50
Crit Depth, Yc (ft) = 2.05
Top Width (ft) = 61.00
EGL (ft) = 3.27

Calculations

Compute by: Known Q
Known Q (cfs) = 535.00



Channel Report

2232 Midway - Western Channel_HELM FLO-2D

Trapezoidal

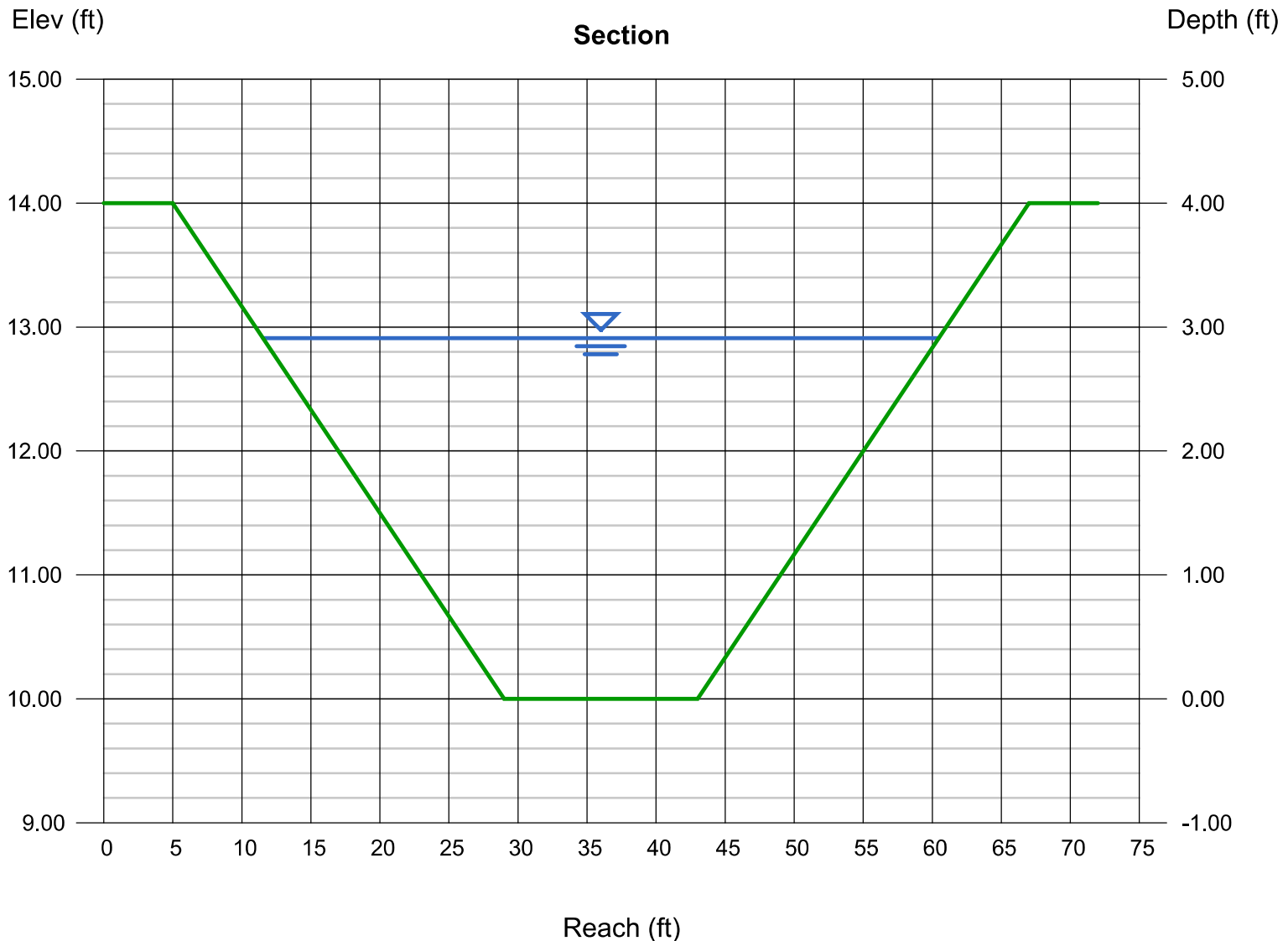
Bottom Width (ft) = 14.00
Side Slopes (z:1) = 6.00, 6.00
Total Depth (ft) = 4.00
Invert Elev (ft) = 10.00
Slope (%) = 0.30
N-Value = 0.032

Highlighted

Depth (ft) = 2.91
Q (cfs) = 350.00
Area (sqft) = 91.55
Velocity (ft/s) = 3.82
Wetted Perim (ft) = 49.40
Crit Depth, Yc (ft) = 2.02
Top Width (ft) = 48.92
EGL (ft) = 3.14

Calculations

Compute by: Known Q
Known Q (cfs) = 350.00



Culvert Report

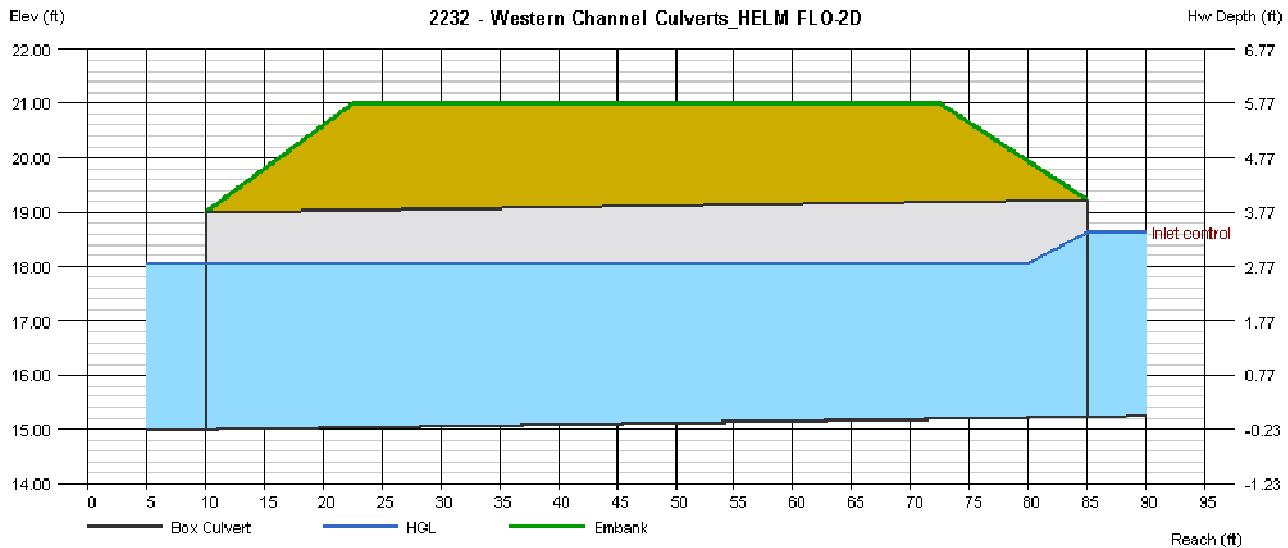
2232 - Western Channel Culverts_HELM FLO-2D

| | |
|---------------------|-------------------------------|
| Invert Elev Dn (ft) | = 15.00 |
| Pipe Length (ft) | = 75.00 |
| Slope (%) | = 0.31 |
| Invert Elev Up (ft) | = 15.23 |
| Rise (in) | = 48.0 |
| Shape | = Box |
| Span (in) | = 120.0 |
| No. Barrels | = 2 |
| n-Value | = 0.012 |
| Culvert Type | = Flared Wingwalls |
| Culvert Entrance | = 30D to 75D wingwall flares |
| Coeff. K,M,c,Y,k | = 0.026, 1, 0.0347, 0.81, 0.4 |

| | |
|--------------------|---------|
| Embankment | |
| Top Elevation (ft) | = 21.00 |
| Top Width (ft) | = 50.00 |
| Crest Width (ft) | = 35.00 |

| | |
|---------------------|------------|
| Calculations | |
| Qmin (cfs) | = 350.00 |
| Qmax (cfs) | = 350.00 |
| Tailwater Elev (ft) | = (dc+D)/2 |

| | |
|--------------------|-----------------|
| Highlighted | |
| Qtotal (cfs) | = 350.00 |
| Qpipe (cfs) | = 350.00 |
| Qovertop (cfs) | = 0.00 |
| Veloc Dn (ft/s) | = 5.72 |
| Veloc Up (ft/s) | = 6.18 |
| HGL Dn (ft) | = 18.06 |
| HGL Up (ft) | = 18.06 |
| Hw Elev (ft) | = 18.63 |
| Hw/D (ft) | = 0.85 |
| Flow Regime | = Inlet Control |



Channel Report

2232 Midway - Western Channel_HILGARTWILSON HEC-1

Trapezoidal

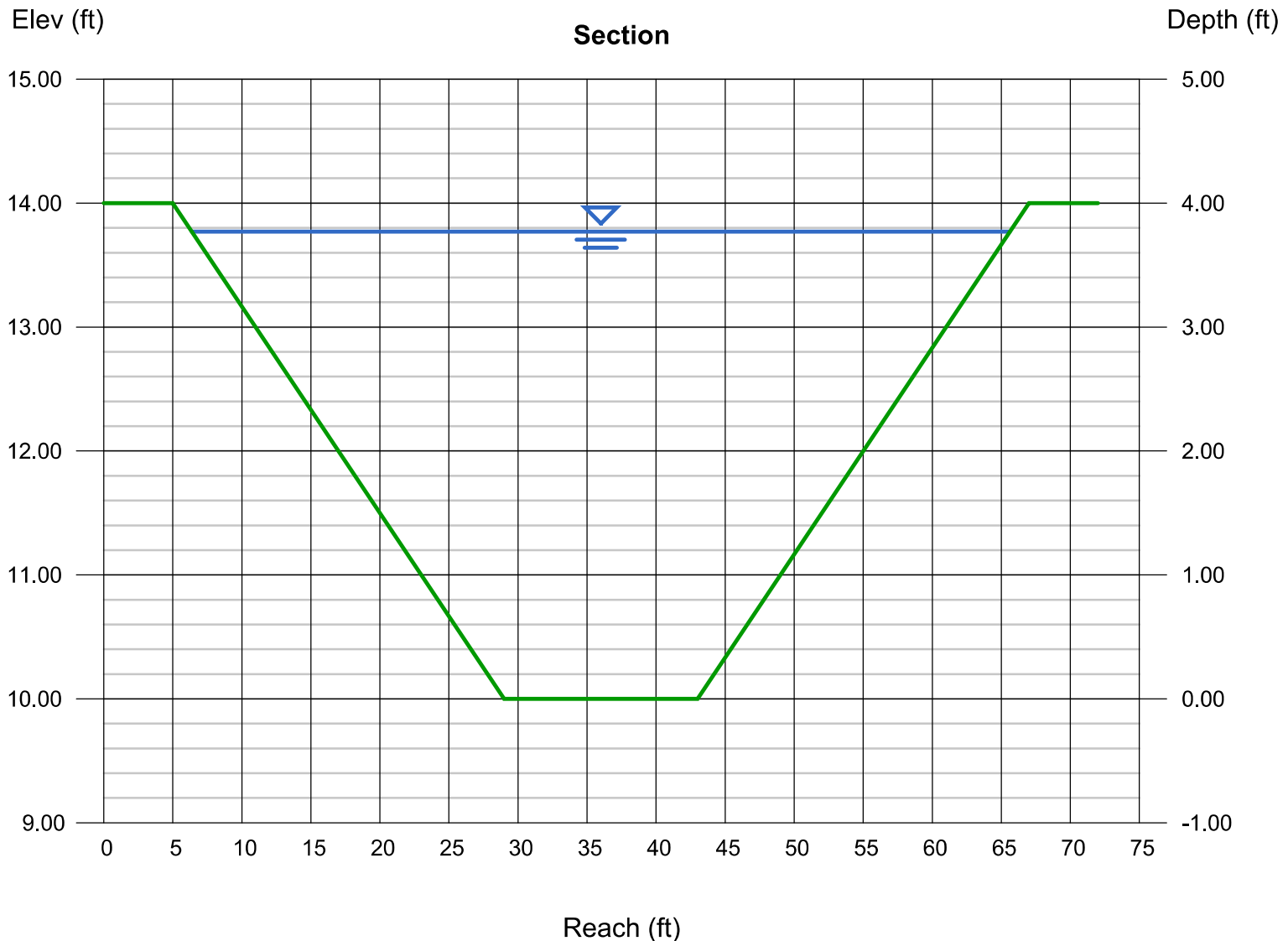
Bottom Width (ft) = 14.00
Side Slopes (z:1) = 6.00, 6.00
Total Depth (ft) = 4.00
Invert Elev (ft) = 10.00
Slope (%) = 0.30
N-Value = 0.032

Highlighted

Depth (ft) = 3.77
Q (cfs) = 613.00
Area (sqft) = 138.06
Velocity (ft/s) = 4.44
Wetted Perim (ft) = 59.86
Crit Depth, Y_c (ft) = 2.71
Top Width (ft) = 59.24
EGL (ft) = 4.08

Calculations

Compute by: Known Q
Known Q (cfs) = 613.00



Culvert Report

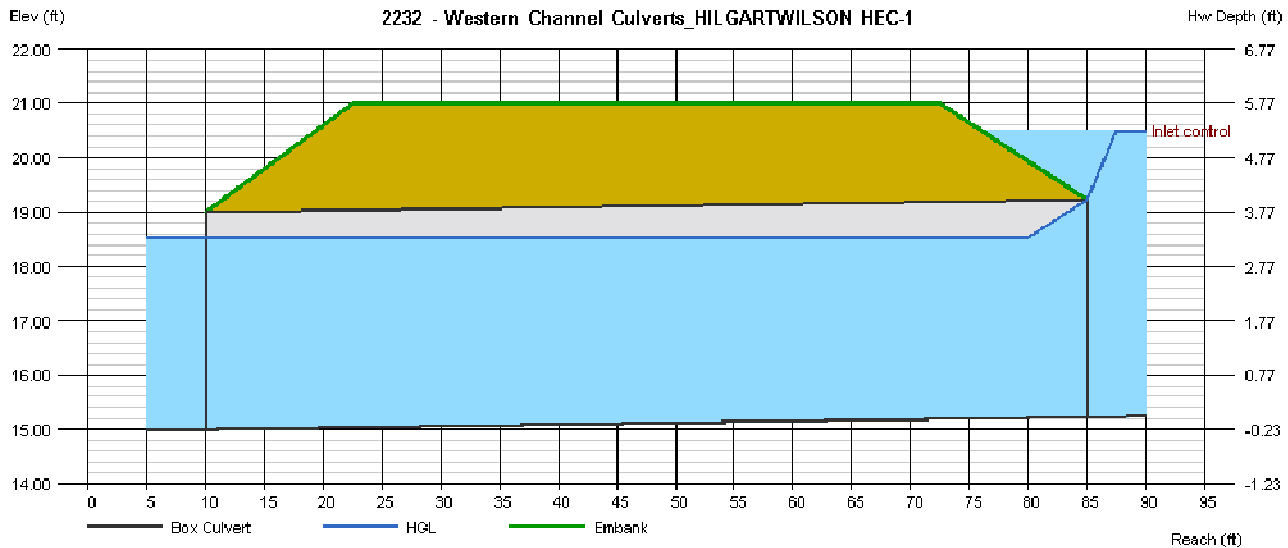
2232 - Western Channel Culverts_HILGARTWILSON HEC-1

| | |
|---------------------|-------------------------------|
| Invert Elev Dn (ft) | = 15.00 |
| Pipe Length (ft) | = 75.00 |
| Slope (%) | = 0.31 |
| Invert Elev Up (ft) | = 15.23 |
| Rise (in) | = 48.0 |
| Shape | = Box |
| Span (in) | = 120.0 |
| No. Barrels | = 2 |
| n-Value | = 0.012 |
| Culvert Type | = Flared Wingwalls |
| Culvert Entrance | = 30D to 75D wingwall flares |
| Coeff. K,M,c,Y,k | = 0.026, 1, 0.0347, 0.81, 0.4 |

| | |
|--------------------|---------|
| Embankment | |
| Top Elevation (ft) | = 21.00 |
| Top Width (ft) | = 50.00 |
| Crest Width (ft) | = 40.00 |

| | |
|---------------------|------------|
| Calculations | |
| Qmin (cfs) | = 613.00 |
| Qmax (cfs) | = 613.00 |
| Tailwater Elev (ft) | = (dc+D)/2 |

| | |
|--------------------|-----------------|
| Highlighted | |
| Qtotal (cfs) | = 613.00 |
| Qpipe (cfs) | = 613.00 |
| Qovertop (cfs) | = 0.00 |
| Veloc Dn (ft/s) | = 8.66 |
| Veloc Up (ft/s) | = 9.26 |
| HGL Dn (ft) | = 18.54 |
| HGL Up (ft) | = 18.54 |
| Hw Elev (ft) | = 20.50 |
| Hw/D (ft) | = 1.32 |
| Flow Regime | = Inlet Control |



Culvert Report

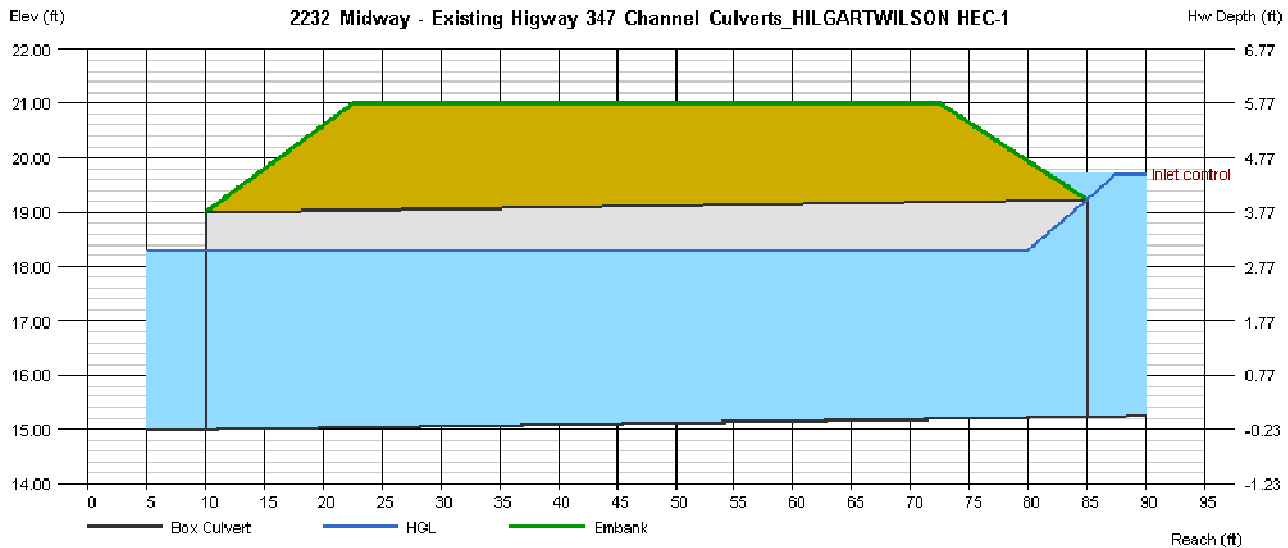
2232 Midway - Existing Highway 347 Channel Culverts_HILGARTWILSON HEC-1

Invert Elev Dn (ft) = 15.00
 Pipe Length (ft) = 75.00
 Slope (%) = 0.31
 Invert Elev Up (ft) = 15.23
 Rise (in) = 48.0
 Shape = Box
 Span (in) = 120.0
 No. Barrels = 3
 n-Value = 0.012
 Culvert Type = Flared Wingwalls
 Culvert Entrance = 30D to 75D wingwall flares
 Coeff. K,M,c,Y,k = 0.026, 1, 0.0347, 0.81, 0.4

Embankment
 Top Elevation (ft) = 21.00
 Top Width (ft) = 50.00
 Crest Width (ft) = 35.00

Calculations
 Qmin (cfs) = 719.00
 Qmax (cfs) = 719.00
 Tailwater Elev (ft) = (dc+D)/2

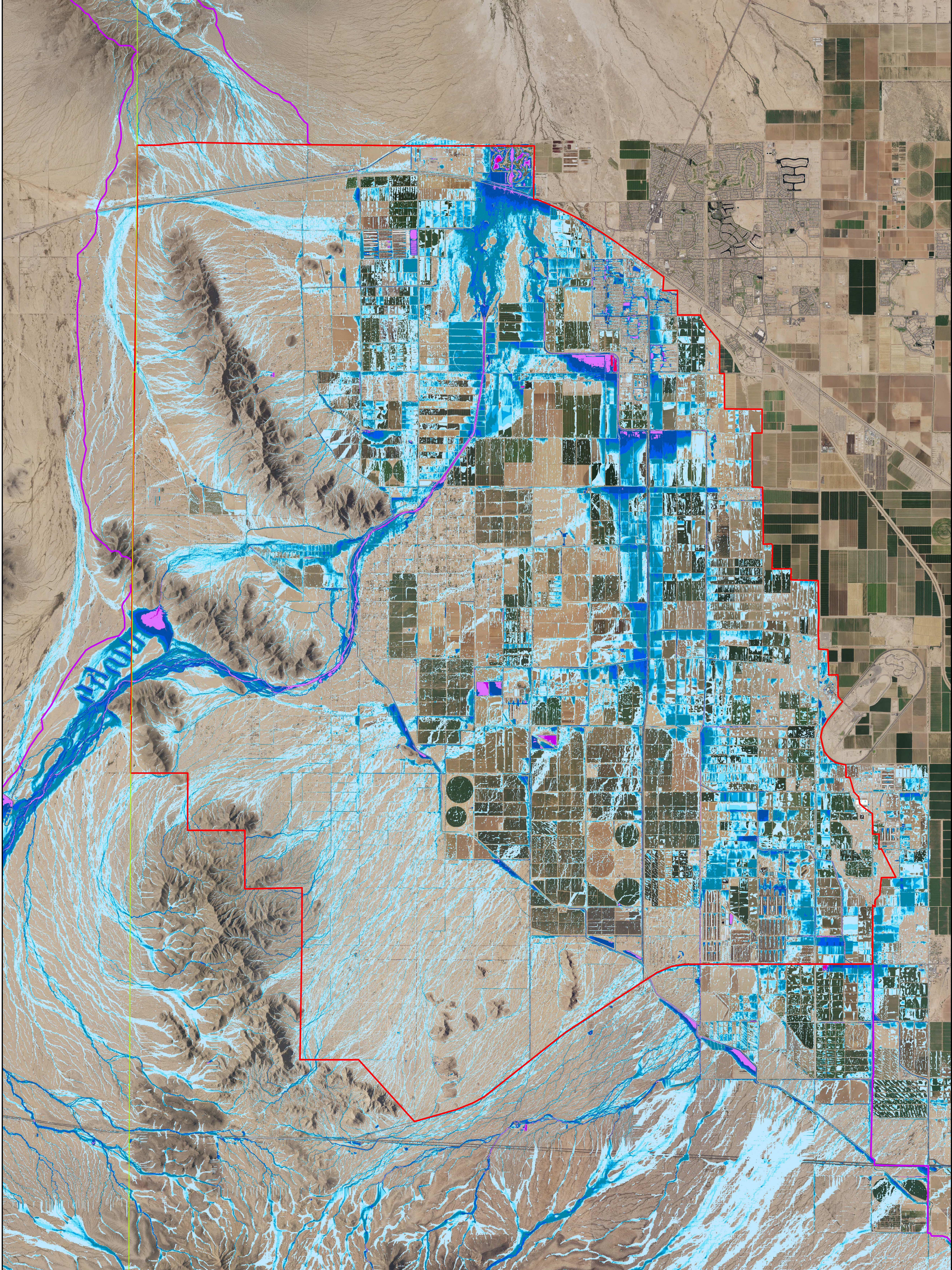
Highlighted
 Qtotal (cfs) = 719.00
 Qpipe (cfs) = 719.00
 Qovertop (cfs) = 0.00
 Veloc Dn (ft/s) = 7.25
 Veloc Up (ft/s) = 7.79
 HGL Dn (ft) = 18.31
 HGL Up (ft) = 18.31
 Hw Elev (ft) = 19.71
 Hw/D (ft) = 1.12
 Flow Regime = Inlet Control

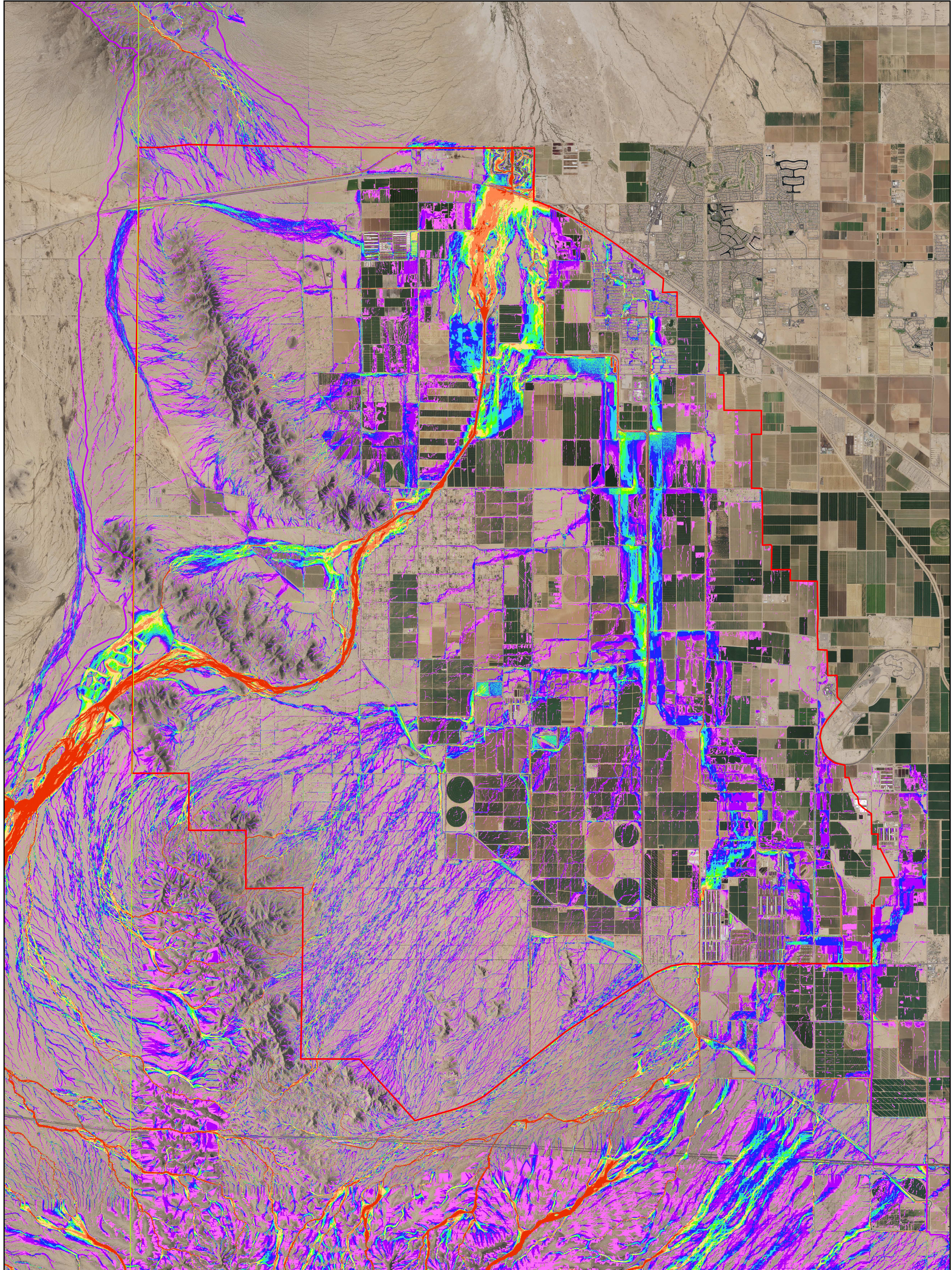


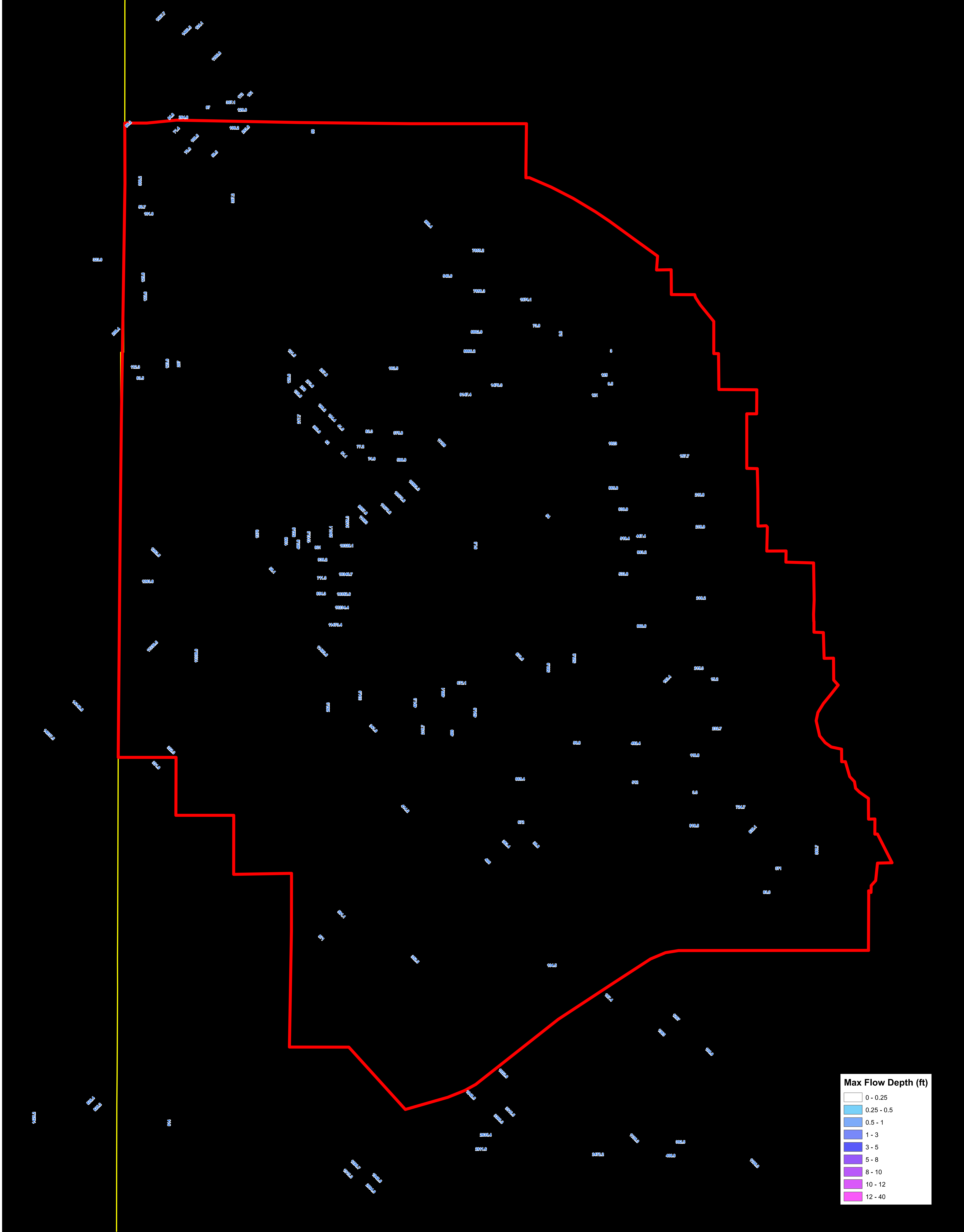


APPENDIX F

PREVIOUS DRAINAGE STUDY EXCERPTS

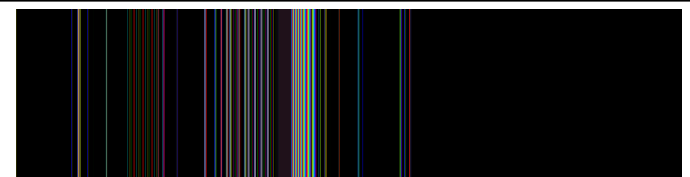






HIDDEN VALLEY WATERSHED PLAN EA

STUDY AREA - PRELIMINARY 100-YR, 24-HR RESULTS





MASTER WASTEWATER REPORT

FOR

MIDWAY – PHASE 1

PINAL COUNTY, ARIZONA

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February 2021
Project No. 2232

**MASTER WASTEWATER REPORT
FOR
MIDWAY – PHASE 1**

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- B.1 Wastewater Flow Calculations Appendix B

1.0 INTRODUCTION

1.1 Background and Project Location

Midway is an approximately 5,750 acre master planned community located within Pinal County, and is proposed for development over multiple phases. Midway – Phase 1 (the Project) encompasses approximately 690 acres at the northern boundary of the overall Midway development, located northwest of the intersection of State Highway 347 and Miller Road in Pinal County, Arizona. The Project is bound by State Highway 347 to the east, the Teel Road alignment to the north, the Green Road alignment to the west, and Miller Road to the south. The Project lies within a portion of Section 33, Township 5 South, Range 3 East of the Gila and Salt River Meridian. Currently, the Project site is active agriculture fields.

The proposed improvements for the Project include construction of a mixed-use master planned community with corresponding roadway and utility improvements. The Project is currently envisioned to consist of a total of 25 parcels, which are proposed to be developed within four separate phases.

Figure 1 in Appendix A provides a vicinity map for the Project.

1.2 General Description

The Project is planned for approximately 2,850 residential units, a school, a park, mixed use development, and other open space uses. The Project is currently undeveloped desert land and the surrounding area generally falls to the northeast at an approximate slope of 0.4%.

The Project is located within Pinal County, in Global Water's Certificate of Convenience & Necessity (CC&N) boundary for wastewater service. The Project is planned to be served within Global Water's Palo Verde Utility Company (PVUC) service area and the wastewater infrastructure for the Project discussed in this report will be owned and operated by Global Water.

1.3 Purpose of Report

The purpose of this Master Wastewater Report is to identify and evaluate the proposed wastewater system infrastructure for serving the Project in accordance with Global Water's *Design and Construction Standards for Potable Water, Recycled Water and Wastewater Infrastructure 2020* (Global Water, 2020). This Master Wastewater Report discusses the existing wastewater infrastructure within the Project vicinity and identifies anticipated wastewater flows for average day and peak flow conditions. It also identifies anticipated sewer line sizes and alignments and presents results from a hydraulic model of the proposed wastewater infrastructure.

2.0 DESIGN CRITERIA

2.1 Global Water Design Criteria

The proposed wastewater system infrastructure for the Project has been prepared and evaluated consistent with the design criteria listed in Global Water's *Design and Construction Standards for Potable Water, Recycled Water and Wastewater Infrastructure 2020* (Global Water, 2020). A summary of the design criteria is provided in Table 1 below.

| TABLE 1 WASTEWATER SYSTEM DESIGN CRITERIA | | | |
|---|--|-------------------------------|---------------------|
| Category | | Value | Unit |
| Average Daily Flow | | | |
| | Residential | 234 | gpd/DU |
| | Commercial | 2,200 | gpd/acre |
| | Industrial | 1,200 | gpd/acre |
| | School | 25 | gpd/student |
| Peaking Factor | | | |
| | Residential | AAC R-18-9-E301 (See Table 2) | |
| | Commercial | 2.0 x Average Day Demand | |
| | Industrial | 2.0 x Average Day Demand | |
| | School | 4.8 x Average Day Demand | |
| System Layout | | | |
| | Minimum Sewer Depth of Cover | 6.0 | ft |
| | Minimum Pipe Diameter | 8 | inches |
| | Manhole Diameter (pipe dia. 8" to 15") | 48 | inches (24" cover) |
| | Manhole Diameter (pipe depth > 10 feet) | 60 | inches (30" cover) |
| | Maximum Manhole Spacing (pipe dia. 8" to 15") | 500 | ft |
| | Maximum Manhole Spacing (pipe dia. 18" to 36") | 600 | ft |
| | Manhole Invert Drop (All manholes) | 0.1' | Drop across manhole |
| Minimum Pipe Slopes | | | |
| | 8-inch | 0.0035 | ft/ft |
| | 10-inch | 0.0024 | ft/ft |
| | 12-inch | 0.0019 | ft/ft |
| | 15-inch | 0.0014 | ft/ft |
| | 18-inch | 0.0011 | ft/ft |
| | 21-inch | 0.00092 | ft/ft |
| | 24-inch | 0.00077 | ft/ft |
| | 27-inch | 0.00070 | ft/ft |
| | 30-inch | 0.00070 | ft/ft |
| | 36-inch | 0.00070 | ft/ft |
| System Performance | | | |
| | Manning's Roughness Coefficient (n) | 0.013 | |
| | Minimum Full-Flow Velocity | 2.00 | fps |
| | Minimum Peak Flow Velocity | 1.50 | fps |
| | Maximum Peak Flow Velocity | 8.00 | fps |
| | Sewer Capacity Ratio (d/D, max at peak flow) | 0.75 | |
| Notes: Design criteria per Global Water's <i>Design and Construction Standards for Potable Water, Recycled Water and Wastewater Infrastructure 2020</i> (Global Water, 2020). | | | |

| TABLE 2 AAC R18-9-E301 PEAKING FACTORS | |
|---|---|
| Upstream Population | Dry Weather Peaking Factor |
| 100 | 3.62 |
| 200 | 3.14 |
| 300 | 2.90 |
| 400 | 2.74 |
| 500 | 2.64 |
| 600 | 2.56 |
| 700 | 2.50 |
| 800 | 2.46 |
| 900 | 2.42 |
| 1,000 | 2.38 |
| 1,001-10,000 | $PF = (6.330 \times p^{0.231}) + 1.094$ |
| 10,001-100,000 | $PF = (6.177 \times p^{0.233}) + 1.128$ |
| > 100,000 | $PF = (4.500 \times p^{0.174}) + 0.945$ |
| <u>Notes:</u> | |
| 1. PF = Peaking Factor | |
| 2. p = Upstream Population | |

3.0 WASTEWATER FLOWS

3.1 Land Use

The Project is planned for approximately 2,850 residential units, a school, a park, mixed use development, and other open space uses. Table 3 shows the anticipated land use and density for the Project by sub-phase. Detailed parcel breakdown for each sub-phase is provided in Table B.1 in Appendix B and shown on Figure 2 in Appendix A.

| TABLE 3 LAND USE AND DENSITY | | | | |
|---------------------------------|---|-----------------|---------------------|-------------------|
| Sub-Phase | Land Use | Gross Area (ac) | Dwelling Units (du) | Density (du/acre) |
| 1-1 | Single Family Residential (SFR) | 170.3 | 631 | 3.7 |
| 1-2 | Single Family Residential (SFR) | 189.2 | 629 | 3.3 |
| 1-3 | Single Family Residential (SFR) Regional Park Regional School | 261.0 | 910 | 3.5 |
| 1-4 | Mixed-Use Residential Mixed-Use Commercial | 88.5 | 680 | 7.7 |
| Grand Total | | 709.1 | 2,850 | 4.0 |

3.2 Wastewater Flow Calculations

Anticipated wastewater flows for the Project have been calculated in accordance with the design criteria listed in Tables 1 and 2 and the land uses and densities listed in Table 3. A summary of the total wastewater flows for the Project is presented in Table 4. Table B.1 in Appendix B presents more detailed wastewater flow calculations for the Project, including parcels within each sub-phase. In addition, offsite flow calculations for the remainder of the overall Midway development are summarized in Table 4 below and included in Table B.1 in Appendix B for sizing of the future offsite sewer main in Green Road. Project land uses, dwelling units, and overall development information for those offsite areas not included in this report have been provided by ABLA and are included in Appendix C for reference.

| TABLE 4 TOTAL WASTEWATER FLOW SUMMARY | | | | | | |
|--|--------------------|----------------|---------------|----------------------|------------------|----------------|
| Phase / Sub-Phase | Average Daily Flow | | Population | Peaking Factor (AAC) | Peak Flow | |
| | gpd | gpm | | | gpd | gpm |
| PHASE 1 (The Project) | | | | | | |
| 1-1 | 147,654 | 102.5 | 2,019 | 2.19 | 322,655 | 224.1 |
| 1-2 | 147,186 | 102.2 | 2,013 | 2.19 | 321,750 | 223.4 |
| 1-3 | 225,440 | 156.6 | 2,912 | Varies | 506,474 | 351.7 |
| 1-4 | 196,630 | 136.5 | 2,336 | Varies | 419,756 | 291.5 |
| Phase 1 Subtotal | 716,910 | 497.9 | 9,120 | Varies | 1,378,304 | 957.2 |
| OFFSITE | | | | | | |
| Remainder of Midway I | 3,574,268 | 2,482.1 | 15,917 | Varies | 5,992,359 | 4,161.4 |
| Midway II | 1,302,916 | 904.8 | 15,917 | Varies | 2,345,410 | 1,628.8 |
| Grand Total | 5,594,094 | 3,884.8 | 71,107 | Varies | 9,150,037 | 6,354.2 |

4.0 WASTEWATER SYSTEM INFRASTRUCTURE

4.1 Existing Wastewater System Infrastructure

Existing wastewater infrastructure within the Project vicinity includes a 42-inch sewer main approximately one mile north of the Project along Green Road. This 42-inch sewer continues north along Green Road and upsizes to a 48-inch diameter sewer main at Papago Road. The 48-inch sewer main outfalls to the Southwest Water Reclamation Facility Campus 2 (SW-WRF-2) at the southwest corner of Peters and Nall Road and Green Road.

Figures 2 and 3 in Appendix A show the existing wastewater system within the Project vicinity.

4.2 Proposed Wastewater System Improvements

Proposed wastewater collection system improvements for serving the Project include 8-inch to 15-inch sewer mains within the Project site. The collection system has been designed to minimize trunk mains within parcels and provide relative parcel and phase independence. The proposed offsite sewer main along Green Road that will outfall at the existing 42-inch sewer main at the intersection of Green Road and Val Vista Road is anticipated to be 36-inches in diameter. The remainder of the offsite sewer main, south of the northern-most collector within the Project, will be designed and constructed at the time future development south of the Project moves forward. However, preliminary offsite flows for the areas south of the Project have been included in the model to identify the anticipated trunk main sizing along Green Road.

In addition to the onsite gravity collection system, a lift station is proposed within Parcel 12 (school site) and will generally serve the northeastern and eastern parcels within the Project area. The lift station is needed to minimize sewer depths where possible, as some sewer mains would otherwise be upwards of 40-feet deep due to the area's topography if a full-gravity solution is applied. The lift station will pump to a force main that will outfall to a proposed manhole near the northwestern corner of Parcel 13 (regional park). The lift station and force main sizing and alignment will be determined during preliminary and final design.

Figure 2 in Appendix A shows the wastewater system improvements from an overall perspective and includes the proposed offsite 36-inch sewer main. Figure 3 in Appendix A shows the onsite wastewater system improvements for the Project.

4.3 Wastewater Infrastructure Phasing

It is anticipated that the Project will be developed in up to four sub-phases. The wastewater infrastructure within the site will similarly be constructed in phases as required to adequately serve each sub-phase of development. Furthermore, the sewer mains that are installed with each parcel or phase will be sized for build-out conditions.

5.0 HYDRAULIC MODEL AND RESULTS

5.1 Design Methodology

The proposed wastewater collection system was modeled using Bentley SewerCAD CONNECT Edition by Bentley Systems, Inc. The wastewater flows shown in Table 4 and Table B.1 of Appendix B were distributed to individual manholes throughout the collection system to provide an accurate representation of average daily flows and peak flows within the system. The wastewater loading for each unit is generally applied to the next upstream manhole to account for flows that enter the system at multiple points within a pipe segment, thus ensuring the entire pipe segment has sufficient capacity to convey the anticipated flow.

The onsite collection system shown on Figures 2 and 3 in Appendix A was designed to meet the design criteria, as specified in Tables 1 and 2, and as approved by Global Water. Pipes were assumed to have a Manning's n value of 0.013 and were

designed such that the normal depth of flow within the pipe does not exceed 75 percent of the pipe diameter during peak flow conditions.

5.2 Hydraulic Model Results

The hydraulic model results show that the proposed onsite and offsite wastewater system for the Project will adequately convey the projected onsite and offsite peak flows through the proposed network of 8-inch to 36-inch gravity sewer mains. Detailed hydraulic model results for the collection system are included in Appendix D. As shown in the results, all proposed gravity sewer mains will convey the peak flows with a d/D (depth/Diameter) ratio of less than 0.75 and a maximum velocity of less than 8.0 fps.

6.0 CONCLUSIONS

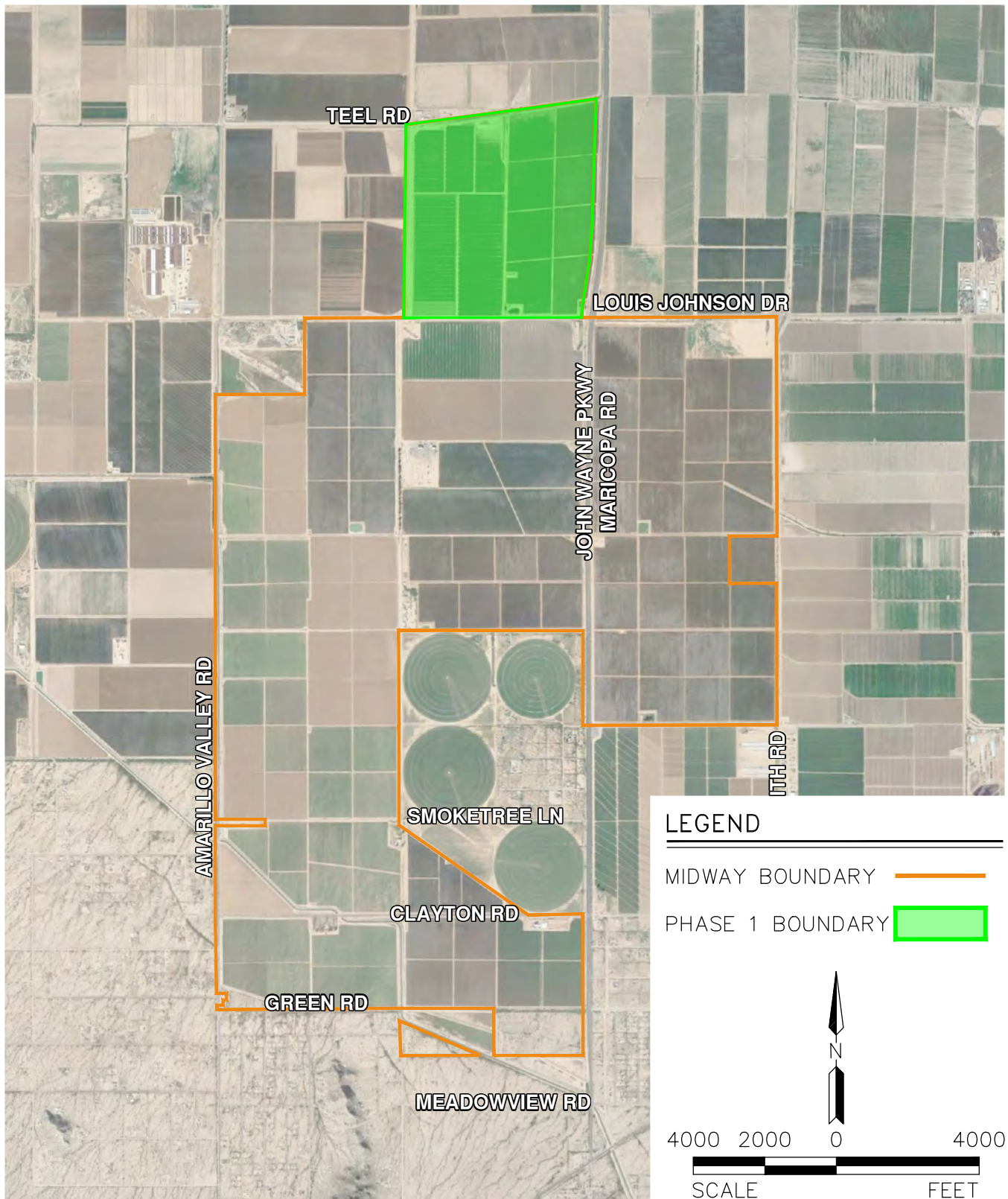
The proposed wastewater system will adequately serve the Project. This report has determined that:

- This Master Wastewater Report generally provides the locations and sizes of the proposed onsite and offsite wastewater collection system infrastructure to convey flows from the Project to the existing 42-inch sewer main at Val Vista Road along Green Road.
- The proposed wastewater collection system consists of a network of onsite 8-inch to 15-inch gravity sewer mains, as well as a lift station and force main to serve a portion of the community. The offsite sewer main in Green Road is proposed to be 36-inches in diameter. The proposed system meets the design criteria outlined in Tables 1 and 2.
- The projected total average daily flow and peak flow generated by the Project is 716,910 gpd (497.9 gpm) and 1,378,304 gpd (957.2 gpm), respectively. With anticipated offsite flows from the remainder of Midway I and Midway II, the projected total average daily flow and peak flow generated is 5,594,094 gpd (3,884.8 gpm) and 9,150,037 gpd (6,354.2 gpm), respectively.

7.0 REFERENCES

Global Water. (2020). *Design and Construction Standards for Potable Water, Recycled Water and Wastewater Infrastructure 2020*. July 2020, Phoenix, AZ

APPENDIX A
FIGURES



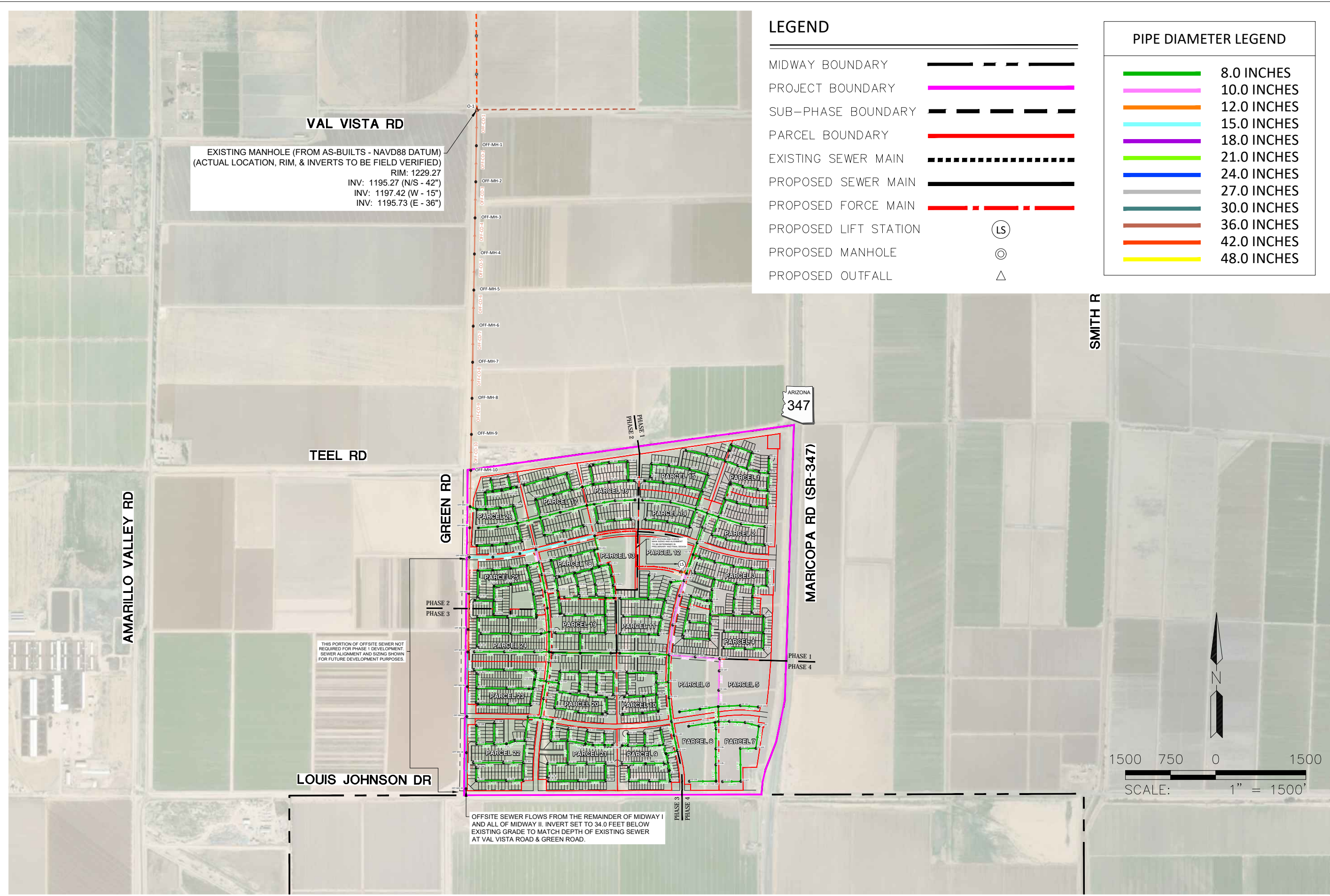
| | |
|-------------|-------------|
| PROJ.NO.: | 2232 |
| DATE: | DEC 2020 |
| SCALE: | 1" = 4,000' |
| DRAWN BY: | SL |
| CHECKED BY: | AT |

MIDWAY — PHASE 1

PINAL COUNTY, ARIZONA

FIG 1: VICINITY MAP


HILGARTWILSON
 2141 E. HIGHLAND AVE., STE. 250
 PHOENIX, AZ 85016
 P: 602.490.0535 / F: 602.368.2436



EXISTING MANHOLE (FROM AS-BUILTS - NAVD88 DATUM)
 (ACTUAL LOCATION, RIM, & INVERTS TO BE FIELD VERIFIED)
 RIM: 1229.27
 INV: 1195.27 (N/S - 42")
 INV: 1197.42 (W - 15")
 INV: 1195.73 (E - 36")

THIS PORTION OF OFFSITE SEWER NOT
 REQUIRED FOR PHASE 1 DEVELOPMENT.
 SEWER ALIGNMENT AND SIZES SHOWN
 FOR FUTURE DEVELOPMENT PURPOSES.

OFFSITE SEWER FLOWS FROM THE REMAINDER OF MIDWAY I
 AND ALL OF MIDWAY II. INVERT SET TO 34.0 FEET BELOW
 EXISTING GRADE TO MATCH DEPTH OF EXISTING SEWER
 AT VAL VISTA ROAD & GREEN ROAD.

LEGEND

- MIDWAY BOUNDARY
- PROJECT BOUNDARY
- SUB-PHASE BOUNDARY
- PARCEL BOUNDARY
- EXISTING SEWER MAIN
- PROPOSED SEWER MAIN
- PROPOSED FORCE MAIN
- PROPOSED LIFT STATION
- PROPOSED MANHOLE
- PROPOSED OUTFALL

PIPE DIAMETER LEGEND

- 8.0 INCHES
- 10.0 INCHES
- 12.0 INCHES
- 15.0 INCHES
- 18.0 INCHES
- 21.0 INCHES
- 24.0 INCHES
- 27.0 INCHES
- 30.0 INCHES
- 36.0 INCHES
- 42.0 INCHES
- 48.0 INCHES

HILGARTWILSON
 2141 E. HIGHLAND AVE., STE. 250
 PHOENIX, AZ 85016
 P: 602.490.0535 / F: 602.368.2436

MIDWAY — PHASE 1
 LOUIS JOHNSON RD & GREEN RD
 PINAL COUNTY, AZ

FIG 2- WASTEWATER SYSTEM IMPROVEMENTS (OVERALL)

| | |
|-------------|------------|
| PROJ.# | 2232 |
| DATE: | FEB 2020 |
| SCALE: | 1" = 1500' |
| DRAWN BY: | MAJ |
| CHECKED BY: | MI |

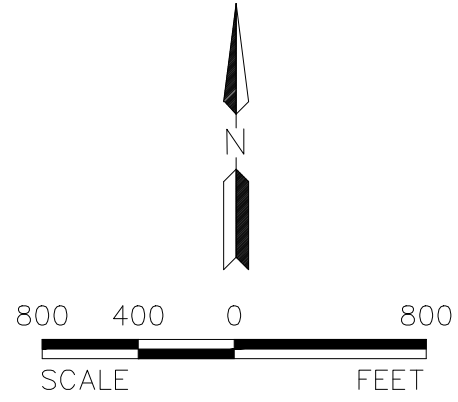


LEGEND

- MIDWAY BOUNDARY
- PROJECT BOUNDARY
- SUB-PHASE BOUNDARY
- PARCEL BOUNDARY
- EXISTING SEWER MAIN
- PROPOSED SEWER MAIN
- PROPOSED FORCE MAIN
- PROPOSED LIFT STATION
- PROPOSED MANHOLE
- PROPOSED OUTFALL

PIPE DIAMETER LEGEND

| | |
|--|-------------|
| | 8.0 INCHES |
| | 10.0 INCHES |
| | 12.0 INCHES |
| | 15.0 INCHES |
| | 18.0 INCHES |
| | 21.0 INCHES |
| | 24.0 INCHES |
| | 27.0 INCHES |
| | 30.0 INCHES |
| | 36.0 INCHES |
| | 42.0 INCHES |
| | 48.0 INCHES |



HILGARTWILSON
 2141 E. HIGHLAND AVE., STE. 250
 PHOENIX, AZ 85016
 P: 602.490.0535 / F: 602.368.2436

MIDWAY - PHASE 1
 LOUIS JOHNSON RD & GREEN RD
 PINAL COUNTY, AZ

FIG 3: WASTEWATER SYSTEM IMPROVEMENTS (ZOOMED IN)

| | |
|-------------|-----------|
| PROJ.# | 2232 |
| DATE: | FEB 2020 |
| SCALE: | 1" = 800' |
| DRAWN BY: | MAJ |
| CHECKED BY: | MI |

APPENDIX B
SUPPLEMENTARY TABLES

B.1 - Wastewater Flow Calculations

Midway - Phase 1

Maricopa, AZ
February, 2020

HILF PARTNERSHIP
Calculated By: MAJ
Checked By: MI

| Parcel | Land Use | Area | | Dwelling Units (du) | Density (du/acre) | Commercial / Industrial Area (ac) | Population | Students | Average Daily Flow | | Peaking Factor | Peak Flow | |
|--|-------------------------|----------------|---------------------------------|------------------------|----------------------|---|-----------------|------------|--------------------|----------------|-------------------|------------------|----------------|
| | | Gross (ac) | Open Space ² (ac) | | | | | | (gpd) | (gpm) | | (gpd) | (gpm) |
| PHASE 1 (PART OF MIDWAY I - The Project) | | | | | | | | | | | | | |
| Phase 1-1 Subtotal: | | | | | | | | | | | | | |
| 1 | Residential | 20.3 | 3.9 | 84 | 4.1 | 0.0 | 269 | 0 | 19,656 | 13.7 | 2.90 | 57,002 | 39.6 |
| 2 | Residential | 23.0 | 3.9 | 97 | 4.2 | 0.0 | 310 | 0 | 22,698 | 15.8 | 2.74 | 62,193 | 43.2 |
| 3 | Residential | 29.8 | 6.0 | 144 | 4.8 | 0.0 | 461 | 0 | 33,696 | 23.4 | 2.64 | 88,957 | 61.8 |
| 4 | Residential | 30.2 | 4.7 | 152 | 5.0 | 0.0 | 486 | 0 | 35,568 | 24.7 | 2.64 | 93,900 | 65.2 |
| 14 | Residential | 17.1 | 2.6 | 60 | 3.5 | 0.0 | 192 | 0 | 14,040 | 9.8 | 3.14 | 44,086 | 30.6 |
| 15 | Residential | 24.5 | 4.7 | 94 | 3.8 | 0.0 | 301 | 0 | 21,996 | 15.3 | 2.74 | 60,269 | 41.9 |
| - | Miscellaneous | 25.4 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0 | - | - | - | - | - |
| Phase 1-1 Subtotal: | | 170.3 | 25.9 | 631 | 3.7 | 0.0 | 2,019 | 0 | 147,654 | 102.5 | 2.19 | 322,655 | 224.1 |
| PHASE 1-2 | | | | | | | | | | | | | |
| 16 | Residential | 24.9 | 4.4 | 98 | 3.9 | 0.0 | 314 | 0 | 22,922 | 15.9 | 2.74 | 62,834 | 43.6 |
| 17 | Residential | 28.7 | 5.4 | 116 | 4.0 | 0.0 | 371 | 0 | 27,144 | 18.9 | 2.74 | 74,375 | 51.6 |
| 18 | Residential | 21.9 | 3.4 | 83 | 3.8 | 0.0 | 266 | 0 | 19,422 | 13.5 | 2.90 | 56,324 | 39.1 |
| 19 | Residential | 22.7 | 3.0 | 95 | 4.2 | 0.0 | 304 | 0 | 22,230 | 15.4 | 2.74 | 60,910 | 42.3 |
| 25 | Residential | 23.8 | 5.8 | 116 | 4.9 | 0.0 | 371 | 0 | 27,144 | 18.9 | 2.74 | 74,375 | 51.6 |
| 26 | Residential | 26.2 | 4.0 | 121 | 4.6 | 0.0 | 387 | 0 | 28,314 | 19.7 | 2.74 | 77,580 | 53.9 |
| - | Miscellaneous | 40.9 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0 | - | - | - | - | - |
| Phase 1-2 Subtotal: | | 189.2 | 26.0 | 629 | 3.3 | 0.0 | 2,013 | 0 | 147,186 | 102.2 | 2.19 | 321,750 | 223.4 |
| PHASE 1-3 | | | | | | | | | | | | | |
| 9 | Residential | 23.2 | 4.9 | 100 | 4.3 | 0.0 | 320 | 0 | 23,400 | 16.3 | 2.74 | 64,116 | 44.5 |
| 10 | Residential | 21.8 | 5.5 | 84 | 3.9 | 0.0 | 269 | 0 | 19,656 | 13.7 | 2.90 | 57,002 | 39.6 |
| 11 | Residential | 27.9 | 4.9 | 101 | 3.6 | 0.0 | 323 | 0 | 23,634 | 16.4 | 2.74 | 64,757 | 45.0 |
| 20 | Residential | 30.0 | 4.9 | 130 | 4.3 | 0.0 | 416 | 0 | 30,420 | 21.1 | 2.64 | 80,309 | 55.8 |
| 21 | Residential | 31.4 | 4.8 | 130 | 4.1 | 0.0 | 416 | 0 | 30,420 | 21.1 | 2.64 | 80,309 | 55.8 |
| 22 | Residential | 29.5 | 5.1 | 107 | 3.6 | 0.0 | 342 | 0 | 25,038 | 17.4 | 2.74 | 68,604 | 47.6 |
| 23 | Residential | 24.3 | 3.4 | 127 | 5.2 | 0.0 | 406 | 0 | 29,718 | 20.6 | 2.64 | 78,456 | 54.5 |
| 24 | Residential | 24.7 | 2.0 | 131 | 5.3 | 0.0 | 419 | 0 | 30,654 | 21.3 | 2.64 | 80,927 | 56.2 |
| 13 | Park | 9.9 | 9.9 | 0 | - | 0.0 | 0 | 0 | - | - | - | - | - |
| 12 | School | 10.1 | 1.1 | 0 | - | 0.0 | 0 | 500 | 12,500 | 8.7 | 4.80 | 60,000 | 41.7 |
| - | Miscellaneous | 28.5 | 0.0 | 0 | - | 0.0 | 0 | 0 | - | - | - | - | - |
| Phase 1-3 Subtotal (Residential): | | 241.1 | 35.5 | 910 | 3.8 | 0.0 | 2,912 | 0 | 212,940 | 147.9 | 2.10 | 446,474 | 310.1 |
| Phase 1-3 Subtotal (School / Park): | | 19.9 | 11.0 | 0 | - | 0.0 | 0 | 500 | 12,500 | 8.7 | 4.80 | 60,000 | 41.7 |
| Phase 1-3 Subtotal: | | 261.0 | 46.5 | 910 | 3.5 | 0.0 | 2,912 | 500 | 225,440 | 156.6 | - | 506,474 | 351.7 |
| PHASE 1-4 | | | | | | | | | | | | | |
| 5 | Mixed-Use (Residential) | 15.9 | 1.6 | 127 | 8.0 | 0.0 | 406 | 0 | 29,718 | 20.6 | 2.64 | 78,456 | 54.5 |
| 6 | Mixed-Use (Residential) | 17.7 | 1.8 | 248 | 14.0 | 0.0 | 794 | 0 | 58,032 | 40.3 | 2.46 | 142,759 | 99.1 |
| 7 | Mixed-Use (Commercial) | 17.1 | 1.8 | 0.0 | - | 17.1 | 0.0 | 0 | 37,510 | 26.0 | 2.00 | 75,020 | 52.1 |
| 8 | Mixed-Use (Residential) | 17.0 | 1.7 | 305 | 18.0 | 0.0 | 976 | 0 | 71,370 | 49.6 | 2.38 | 169,861 | 118.0 |
| - | Miscellaneous | 20.9 | 0.0 | 0 | - | 0.0 | 0 | 0 | - | - | - | - | - |
| Phase 1-4 Subtotal (Residential): | | 71.5 | 5.1 | 680 | 9.5 | 0.0 | 2,176 | 0 | 159,120 | 110.5 | 2.17 | 344,736 | 239.4 |
| Phase 1-4 Subtotal (Commercial/Industrial): | | 17.1 | 1.8 | 0 | - | 17.1 | 0 | 0 | 37,510 | 26.0 | 2.00 | 75,020 | 52.1 |
| Phase 1-4 Subtotal: | | 88.5 | 6.9 | 680 | 7.7 | 17.1 | 2,176 | 0 | 196,630 | 136.5 | - | 419,756 | 291.5 |
| PHASE 1 GRAND TOTALS | | | | | | | | | | | | | |
| Residential | | 556.4 | 92.4 | 2,850 | 5.1 | 0.0 | 9,120 | 0 | 666,900.0 | 463.1 | 1.86 | 1,243,284 | 863.4 |
| Schools | | 10.1 | 1.1 | 0 | - | 0.0 | 0 | 500 | 12,500.0 | 8.7 | 4.80 | 60,000 | 41.7 |
| Commercial/Industrial | | 17.1 | 1.8 | 0 | - | 17.1 | 0.0 | 0 | 37,510.0 | 26.0 | 2.00 | 75,020 | 52.1 |
| Miscellaneous/Parks/Etc | | 125.6 | 9.9 | 0.0 | - | 0.0 | 0.0 | 0 | - | - | - | - | - |
| PHASE 1 GRAND TOTAL: | | 709.1 | 105.2 | 2,850 | 4.0 | 17.1 | 9,120 | 500 | 716,910 | 497.9 | - | 1,378,304 | 957.2 |
| OFFSITE FLOWS (OFFSITE MIDWAY DEVELOPMENT SOUTH OF THE PROJECT) | | | | | | | | | | | | | |
| MIDWAY I (Phase 1 Above Has Been Removed) | | | | | | | | | | | | | |
| MIDWAY I | Residential | 3,073 | 467.0 | 15,127 | 4.9 | 0.0 | 48,406 | 0 | 3,539,718 | 2,458.1 | 1.63 | 5,763,579 | 4,002.5 |
| | Mixed-Use (Residential) | 80.0 | 9.6 | 1,440 | 18.0 | 0.0 | 4,608 | 0 | 336,960 | 234.0 | 2.00 | 672,520 | 467.0 |
| | Industrial | 60.0 | 0.0 | 0.0 | - | 60.0 | 0.0 | 0 | 72,000 | 50.0 | 2.00 | 144,000 | 100.0 |
| | Commercial | 100.0 | 0.0 | 0.0 | - | 100.0 | 2,176.0 | 0 | 220,000 | 152.8 | 2.00 | 440,000 | 305.6 |
| | Office | 50.0 | 0.0 | 0.0 | - | 50.0 | 0.0 | 0 | 110,000 | 76.4 | 2.00 | 220,000 | 152.8 |
| | Open Space | 177.0 | 177.0 | 0.0 | - | 0.0 | 2,176.0 | 0 | - | - | - | - | - |
| Midway I Subtotal (Residential): | | 2,596.6 | 384.2 | 13,717 | 5.3 | 0.0 | 43,894 | 0 | 3,209,778 | 2,229.0 | 1.64 | 5,263,379 | 3,655.1 |
| Midway I Subtotal (Commercial/Industrial/Office): | | 193.0 | 185.1 | 0 | - | 193.0 | 2,176 | 0 | 364,490 | 253.1 | 2.00 | 728,980 | 506.2 |
| Midway I Subtotal (Open Space): | | 51.4 | 167.1 | 0 | - | 0.0 | 2,176 | 0 | - | - | - | - | - |
| Midway I Subtotal: | | 2,840.9 | 736.4 | 13,717 | 4.8 | 193.0 | 48,246 | 0 | 3,574,268 | 2,482.1 | - | 5,992,359 | 4,161.4 |
| MIDWAY II | | | | | | | | | | | | | |
| MIDWAY II | Residential | 933.4 | 141.8 | 4,704 | 5.0 | 0.0 | 15,053 | 0 | 1,100,736 | 764.4 | 1.78 | 1,964,526 | 1,364.3 |
| | Mixed-Use (Residential) | 15.0 | 1.8 | 270 | 18.0 | 0.0 | 864 | 0 | 63,180 | 43.9 | 2.42 | 152,896 | 106.2 |
| | Industrial | 15.0 | 0.0 | 0.0 | - | 15.0 | 0.0 | 0 | 18,000 | 12.5 | 2.00 | 36,000 | 25.0 |
| | Commercial | 30.0 | 0.0 | 0.0 | - | 30.0 | 0.0 | 0 | 66,000 | 45.8 | 2.00 | 132,000 | 91.7 |
| | Office | 25.0 | 0.0 | 0.0 | - | 25.0 | 0.0 | 0 | 55,000 | 38.2 | 2.00 | 110,000 | 76.4 |
| | Open Space | 53.6 | 53.6 | 0.0 | - | 0.0 | 0.0 | 0 | - | - | - | - | - |
| Midway II Subtotal (Residential): | | 948.4 | 143.6 | 4,974 | 5.2 | 0.0 | 15,917 | 0 | 1,163,916 | 808.3 | 1.78 | 2,067,410 | 1,435.7 |
| Midway II Subtotal (Commercial/Industrial/Office): | | 70.0 | 0.0 | 0 | - | 70.0 | 0 | 0 | 139,000 | 96.5 | 2.00 | 278,000 | 193.1 |
| Midway II Subtotal (Open Space): | | 53.6 | 53.6 | 0 | - | 0.0 | 0 | 0 | - | - | - | - | - |
| Midway II Subtotal: | | 1,072.0 | 197.2 | 4,974 | 4.6 | 70.0 | 15,917 | 0 | 1,302,916 | 904.8 | - | 2,345,410 | 1,628.8 |
| GRAND TOTAL FLOWS (FOR OFFSITE SEWER TRUNK MAIN SIZING) | | | | | | | | | | | | | |
| Grand Total (Residential): | | 4,101.4 | 620.2 | 21,541.0 | 5.3 | 0.0 | 68,931.2 | 0.0 | 5,040,594.0 | 3,500.4 | 1.59 | 8,008,037 | 5,561.1 |
| Grand Total (Commercial/Industrial/Office): | | 280.0 | 186.9 | 0 | - | 280.0 | 2,176 | 0 | 541,000 | 375.7 | 2.00 | 1,082,000 | 751.4 |
| Grand Total (School): | | 10.1 | 1.1 | 0 | - | 0.0 | 0 | 500 | 12,500 | 8.7 | 4.80 | 60,000 | 41.7 |
| Grand Total (Miscellaneous / Open Space): | | 230.6 | 230.6 | - | - | - | - | - | - | - | - | - | - |
| GRAND TOTAL: | | 4,622.1 | 1,038.8 | 21,541 | 4.7 | 280.0 | 71,107 | 500 | 5,594,094 | 3,884.8 | - | 9,150,037 | 6,354.2 |

Notes:

- Flow Factors:**
 Residential: 234 gal/day/dwelling unit
 Commercial: 2,200 gal/acre/day
 Industrial: 1,200 gal/acre/day
 School: 25 gal/student/day
- Population Factors:**
 Residential: 3.2 persons/cdwelling unit
 Commercial: 9.4 persons/cdwelling unit
- Peaking Factors:**
 Residential: Refer to Table 1 of AAC R-18-9-E301.D.1.a
 Commercial: 2.0 x Average Daily Flow
 Industrial: 2.0 x Average Daily Flow
 School: 4.8 x Average Daily Flow

(1) Demand Factors, Population Factors, and Peaking Factors were taken from the *Design and Construction Standards for Potable Water, Recycled Water, and Wastewater Infrastructure* (Global Water, 2020).
 (2) Open space area for each parcel assumed at 20% of the gross area unless specifically allocated.
 (3) Information for the remainder of Midway I and Midway II provided by ABLA and can be referenced in Appendix C.

APPENDIX C

PROPOSED FUTURE DEVELOPMENT INFORMATION FOR THE REMAINDER OF MIDWAY I AND MIDWAY II

| Midway I | | | | | | | | | | | | | | | |
|--|----------------------|-------------|----------------|-------|---------------|-------------|----------------|-----------------|--------|---------------|-------------|----------------|---------------|--------------|------------|
| Pinal County Land Use Categories | Land Use Description | Existing | | | | | Proposed | | | | | | | | |
| | | Gross Acres | AC. Mix | Units | Density | Mix | Gross Acres | AC. Mix | Units | Density | Mix | Open Space AC. | Turf AC. | F.A.R. | Floor Area |
| Medium Density Residential (3.5-8 du/ac) | Low Density | 194.0 | 5.48% | 194 | 1.00 | 1.42% | 85.00 | 2.40% | 255 | 3.00 | 1.54% | 12.75 | 1.28 | | |
| | Medium Low Density | 92.0 | 2.60% | 258 | 2.80 | 1.89% | 2,698.00 | 76.21% | 10,792 | 4.00 | 65.14% | 404.70 | 40.47 | | |
| High Density Residential (8-24 du/ac) | Medium Density | 1,455.0 | 41.10% | 8,152 | 5.60 | 59.84% | 90.00 | 2.54% | 720 | 8.00 | 4.35% | 13.50 | 1.35 | | |
| | Medium High Density | 263.0 | 7.43% | 2,273 | 8.64 | 16.68% | 120.00 | 3.39% | 1,440 | 12.00 | 8.69% | 21.60 | 2.16 | | |
| | High Density | 182.0 | 5.14% | 2,747 | 15.09 | 20.16% | 80.00 | 2.26% | 1,920 | 24.00 | 11.59% | 14.40 | 1.44 | | |
| | Mixed Use | | | | | | 80.00 | 2.26% | 1,440 | 18.00 | 8.69% | 9.60 | 0.96 | 0.15 | 522,720 |
| | Industrial | | | | | | 60.00 | 1.69% | | | | | | 0.15 | 392,040 |
| | Open Space | | | | | | * 177.00 | 5.00% | | | | * 177.0 | 17.70 | | |
| | Commercial | 265.0 | 7.49% | | | | 100.00 | 2.82% | | | | | | 0.15 | 653,400 |
| | Office | 89.0 | 2.51% | | | | 50.00 | 1.41% | | | | | | 0.15 | 326,700 |
| | Village Core | 103.0 | 2.91% | | | | | | | | | | | | |
| | Business Park | 358.0 | 10.11% | | | | | | | | | | | | |
| | Golf Course | 416.0 | 11.75% | | | | | | | | | | | | |
| | Lake | 123.0 | 3.47% | | | | | | | | | | | | |
| | Total | | 3,540.0 | | 13,624 | 3.85 | 100.00% | 3,540.00 | | 16,567 | 4.68 | 100.00% | 653.55 | 65.36 | |

*These acreages have been duplicated for the purpose of providing the total site acreage and total open space acreage.

| Midway II | | | | | | | | | | | | | | | |
|--|---------------------|-------------|----------------|-------|--------------|-------------|----------------|-----------------|-------|--------------|-------------|----------------|---------------|--------------|------------|
| Pinal County Land Use Categories | Description | Existing | | | | | Proposed | | | | | | | | |
| | | Gross Acres | AC. Mix | Units | Density | Mix | Gross Acres | AC. Mix | Units | Density | Mix | Open Space AC. | Turf AC. | F.A.R. | Floor Area |
| Medium Density Residential (3.5-8 du/ac) | Low Density | 203.0 | 5.73% | 203 | 1.00 | 6.16% | 50.00 | 4.66% | 150 | 3.00 | 3.02% | 7.50 | 0.75 | | |
| | Medium Low Density | 161.0 | 4.55% | 451 | 2.80 | 13.68% | 763.40 | 71.21% | 3,054 | 4.00 | 61.40% | 114.51 | 11.45 | | |
| High Density Residential (8-24 du/ac) | Medium Density | 338.0 | 9.55% | 1,894 | 5.60 | 57.46% | 60.00 | 5.60% | 480 | 8.00 | 9.65% | 9.00 | 0.90 | | |
| | Medium High Density | 74.0 | 2.09% | 370 | 5.00 | 11.23% | 35.00 | 3.26% | 420 | 12.00 | 8.44% | 6.30 | 0.63 | | |
| | High Density | 25.0 | 0.71% | 378 | 15.12 | 11.47% | 25.00 | 2.33% | 600 | 24.00 | 12.06% | 4.50 | 0.45 | | |
| | Mixed Use | | | | | | 15.00 | 1.40% | 270 | 18.00 | 5.43% | 1.80 | 0.18 | 0.15 | 98,010 |
| | Industrial | | | | | | 15.00 | 1.40% | | | | | | 0.15 | 98,010 |
| | Open Space | | | | | | * 53.60 | 5.00% | | | | * 53.60 | 5.36 | | |
| | Commercial | 13.0 | 0.37% | | | | 30.00 | 2.80% | | | | | | 0.15 | 196,020 |
| | Office | 8.0 | 0.23% | | | | 25.00 | 2.33% | | | | | | 0.15 | 163,350 |
| | Village Core | 0.0 | 0.00% | | | | | | | | | | | | |
| | Business Park | 0.0 | 0.00% | | | | | | | | | | | | |
| | Golf Course | 190.0 | 5.37% | | | | | | | | | | | | |
| | Lake | 60.0 | 1.69% | | | | | | | | | | | | |
| | Total | | 1,072.0 | | 3,296 | 3.07 | 100.00% | 1,072.00 | | 4,974 | 4.64 | 100.00% | 197.21 | 19.72 | |

*These acreages have been duplicated for the purpose of providing the total site acreage and total open space acreage.

| Verde Grande | | | | | | | | | | | | | | | |
|--|---------------------|-------------|----------------|-------|--------------|-------------|----------------|-----------------|-------|--------------|-------------|----------------|---------------|--------------|------------|
| Pinal County Land Use Categories | Description | Existing | | | | | Proposed | | | | | | | | |
| | | Gross Acres | AC. Mix | Units | Density | Mix | Gross Acres | AC. Mix | Units | Density | Mix | Open Space AC. | Turf AC. | F.A.R. | Floor Area |
| Medium Density Residential (3.5-8 du/ac) | Low Density | 0.0 | 0.00% | 0 | #DIV/0! | 0.00% | 50.00 | 1.41% | 150 | 3.00 | 3.40% | 7.50 | 0.75 | | |
| | Medium Low Density | 0.0 | 0.00% | 0 | #DIV/0! | 0.00% | 919.05 | 25.96% | 3,676 | 4.00 | 83.43% | 137.86 | 13.79 | | |
| High Density Residential (8-24 du/ac) | Medium Density | 1,067.0 | 30.14% | 3,735 | 3.50 | 100.00% | 35.00 | 0.99% | 280 | 8.00 | 6.35% | 5.25 | 0.53 | | |
| | Medium High Density | 0.0 | 0.00% | 0 | #DIV/0! | 0.00% | 25.00 | 0.71% | 300 | 12.00 | 6.81% | 4.50 | 0.45 | | |
| | High Density | 0.0 | 0.00% | 0 | #DIV/0! | 0.00% | 0.00 | 0.00% | 0 | 24.00 | 0.00% | 0.00 | 0.00 | | |
| | Mixed Use | | | | | | 0.00 | 0.00% | 0 | 18.00 | 0.00% | 0.00 | 0.00 | 0.15 | 0 |
| | Industrial | | | | | | 0.00 | 0.00% | | | | | | 0.15 | 0 |
| | Open Space | | | | | | * 54.95 | 5.00% | | | | * 54.95 | 5.50 | | |
| | Commercial | 32.0 | 0.90% | | | | 15.00 | 0.42% | | | | | | 0.15 | 98,010 |
| | Office | 0.0 | 0.00% | | | | 0.00 | 0.00% | | | | | | 0.15 | 0 |
| | Village Core | 0.0 | 0.00% | | | | | | | | | | | | |
| | Business Park | 0.0 | 0.00% | | | | | | | | | | | | |
| | Golf Course | 0.0 | 0.00% | | | | | | | | | | | | |
| | Lake | 0.0 | 0.00% | | | | | | | | | | | | |
| | Total | | 1,099.0 | | 3,735 | 3.40 | 100.00% | 1,099.00 | | 4,406 | 4.01 | 100.00% | 210.06 | 21.01 | |

*These acreages have been duplicated for the purpose of providing the total site acreage and total open space acreage.

| Cando Ranch | | | | | | | | | | | | | | | |
|--|---------------------|-------------|-------------|-------|------------|-------------|----------------|--------------|-------|------------|-------------|----------------|--------------|-------------|------------|
| Pinal County Land Use Categories | Description | Existing | | | | | Proposed | | | | | | | | |
| | | Gross Acres | AC. Mix | Units | Density | Mix | Gross Acres | AC. Mix | Units | Density | Mix | Open Space AC. | Turf AC. | F.A.R. | Floor Area |
| Medium Density Residential (3.5-8 du/ac) | Low Density | 0.0 | 0.00% | 0 | #DIV/0! | 0.00% | 0.00 | 0.00% | 0 | 3.00 | 0.00% | 0.00 | 0.00 | | |
| | Medium Low Density | 21.1 | 0.60% | 44 | 2.09 | 23.78% | 67.55 | 1.91% | 270 | 4.00 | 100.00% | 10.13 | 1.01 | | |
| High Density Residential (8-24 du/ac) | Medium Density | 30.0 | 0.85% | 107 | 3.57 | 57.84% | | 0.00% | 0 | 8.00 | 0.00% | 0.00 | 0.00 | | |
| | Medium High Density | 20.0 | 0.56% | 34 | 1.70 | 18.38% | | 0.00% | 0 | 12.00 | 0.00% | 0.00 | 0.00 | | |
| | High Density | 0.0 | 0.00% | 0 | #DIV/0! | 0.00% | | 0.00% | 0 | 24.00 | 0.00% | 0.00 | 0.00 | | |
| | Mixed Use | | | | | | 0.00 | 0.00% | 0 | 18.00 | 0.00% | 0.00 | 0.00 | 0.15 | 0 |
| | Industrial | | | | | | | | | | | | | 0.15 | 0 |
| | Open Space | | | | | | * 3.56 | 5.00% | | | | * 3.56 | 0.36 | | |
| | Commercial | 0.0 | 0.00% | | | | | 0.00% | | | | | | 0.15 | 0 |
| | Office | 0.0 | 0.00% | | | | | 0.00% | | | | | | 0.15 | 0 |
| | Village Core | 0.0 | 0.00% | | | | | | | | | | | | |
| | Business Park | 0.0 | 0.00% | | | | | | | | | | | | |
| | Golf Course | 0.0 | 0.00% | | | | | | | | | | | | |
| | Lake | 0.0 | 0.00% | | | | | | | | | | | | |
| | Total | | 71.1 | | 185 | 2.60 | 100.00% | 71.10 | | 270 | 3.80 | 100.00% | 13.69 | 1.37 | |

*These acreages have been duplicated for the purpose of providing the total site acreage and total open space acreage.

APPENDIX D

HYDRAULIC MODEL RESULTS

AVERAGE DAILY FLOW

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|-------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-1 | 8.0 | 0.013 | 100.6 | 0.01123 | CO-186 | 1,231.38 | 6.00 | CO-187 | 1,230.25 | 7.44 | 1,638 | 0.73 | 0.2 | 754,797 | 3.3 | 827,739 |
| CO-2 | 8.0 | 0.013 | 320.3 | 0.00330 | CO-187 | 1,230.15 | 7.54 | CO-188 | 1,229.09 | 10.09 | 8,190 | 0.77 | 2.0 | 409,101 | 9.4 | 448,636 |
| CO-3 | 8.0 | 0.013 | 268.1 | 0.00330 | CO-188 | 1,228.99 | 10.19 | CO-189 | 1,228.11 | 11.32 | 9,828 | 0.81 | 2.4 | 409,101 | 10.2 | 448,636 |
| CO-4 | 8.0 | 0.013 | 184.5 | 0.00330 | CO-189 | 1,228.01 | 11.42 | CO-190 | 1,227.40 | 12.11 | 13,104 | 0.88 | 3.2 | 409,101 | 11.7 | 448,636 |
| CO-5 | 8.0 | 0.013 | 179.7 | 0.00330 | CO-190 | 1,227.30 | 12.21 | CO-191 | 1,226.70 | 13.11 | 13,104 | 0.88 | 3.2 | 409,101 | 11.7 | 448,636 |
| CO-6 | 8.0 | 0.013 | 312.0 | 0.00330 | CO-191 | 1,226.60 | 13.21 | CO-192 | 1,225.57 | 16.02 | 22,152 | 1.03 | 5.4 | 409,101 | 15.1 | 448,636 |
| CO-7 | 8.0 | 0.013 | 311.1 | 0.00330 | CO-192 | 1,225.47 | 16.12 | CO-193 | 1,224.45 | 18.16 | 24,414 | 1.06 | 6.0 | 409,101 | 15.8 | 448,636 |
| CO-8 | 8.0 | 0.013 | 307.2 | 0.00330 | CO-193 | 1,224.35 | 18.26 | CO-194 | 1,223.33 | 19.71 | 26,676 | 1.09 | 6.5 | 409,101 | 16.5 | 448,636 |
| CO-9 | 8.0 | 0.013 | 119.7 | 0.00330 | CO-199 | 1,218.45 | 27.90 | OFF-MH-11 | 1,218.05 | 28.26 | 78,390 | 1.49 | 19.2 | 409,101 | 28.3 | 448,636 |
| CO-10 | 8.0 | 0.013 | 337.3 | 0.05300 | CO-167 | 1,239.83 | 7.05 | CO-195 | 1,221.96 | 22.06 | 3,146 | 1.49 | 0.2 | 1,639,513 | 3.1 | 1,797,953 |
| CO-11 | 8.0 | 0.013 | 322.3 | 0.00330 | CO-166 | 1,241.00 | 6.00 | CO-167 | 1,239.93 | 6.95 | 1,573 | 0.47 | 0.4 | 409,101 | 4.3 | 448,636 |
| CO-12 | 8.0 | 0.013 | 255.4 | 0.00330 | CO-162 | 1,241.47 | 6.00 | CO-163 | 1,240.63 | 6.81 | 1,573 | 0.47 | 0.4 | 409,101 | 4.3 | 448,636 |
| CO-13 | 8.0 | 0.013 | 237.1 | 0.00330 | CO-163 | 1,240.53 | 6.91 | CO-164 | 1,239.75 | 7.67 | 3,146 | 0.57 | 0.8 | 409,101 | 6.0 | 448,636 |
| CO-14 | 8.0 | 0.013 | 266.3 | 0.00555 | CO-164 | 1,239.65 | 7.77 | CO-165 | 1,238.17 | 6.00 | 4,719 | 0.77 | 0.9 | 530,721 | 6.4 | 582,010 |
| CO-15 | 8.0 | 0.013 | 305.7 | 0.05271 | CO-165 | 1,238.07 | 6.10 | CO-195 | 1,221.96 | 22.06 | 6,292 | 1.87 | 0.4 | 1,635,040 | 4.3 | 1,793,047 |
| CO-16 | 8.0 | 0.013 | 151.0 | 0.00330 | CO-198 | 1,219.05 | 26.55 | CO-199 | 1,218.55 | 27.80 | 76,817 | 1.49 | 18.8 | 409,101 | 28.0 | 448,636 |
| CO-17 | 8.0 | 0.013 | 244.1 | 0.00330 | CO-197 | 1,219.95 | 25.96 | CO-198 | 1,219.15 | 26.45 | 64,233 | 1.41 | 15.7 | 409,101 | 25.6 | 448,636 |
| CO-18 | 8.0 | 0.013 | 219.4 | 0.00330 | CO-196 | 1,220.78 | 24.75 | CO-197 | 1,220.05 | 25.86 | 62,660 | 1.40 | 15.3 | 409,101 | 25.2 | 448,636 |
| CO-19 | 8.0 | 0.013 | 296.4 | 0.00330 | CO-195 | 1,221.86 | 22.16 | CO-196 | 1,220.88 | 24.65 | 61,087 | 1.39 | 14.9 | 409,101 | 24.9 | 448,636 |
| CO-20 | 8.0 | 0.013 | 101.1 | 0.01788 | CO-157 | 1,239.02 | 6.00 | CO-158 | 1,237.21 | 7.70 | 1,573 | 0.84 | 0.2 | 952,253 | 2.9 | 1,044,277 |
| CO-21 | 8.0 | 0.013 | 154.6 | 0.00330 | CO-158 | 1,237.11 | 7.80 | CO-159 | 1,236.60 | 8.36 | 4,719 | 0.64 | 1.2 | 409,101 | 7.3 | 448,636 |
| CO-22 | 8.0 | 0.013 | 150.6 | 0.00330 | CO-159 | 1,236.50 | 8.46 | CO-160 | 1,236.01 | 8.79 | 6,292 | 0.71 | 1.5 | 409,101 | 8.3 | 448,636 |
| CO-23 | 8.0 | 0.013 | 122.2 | 0.00330 | CO-160 | 1,235.91 | 8.89 | CO-161 | 1,235.50 | 9.73 | 9,438 | 0.80 | 2.3 | 409,101 | 10.0 | 448,636 |
| CO-24 | 8.0 | 0.013 | 282.3 | 0.05758 | CO-161 | 1,235.40 | 9.83 | CO-198 | 1,219.15 | 26.45 | 11,011 | 2.26 | 0.6 | 1,708,936 | 5.5 | 1,874,084 |
| CO-25 | 8.0 | 0.013 | 203.3 | 0.01320 | CO-155 | 1,238.69 | 6.00 | CO-160 | 1,236.01 | 8.79 | 1,573 | 0.74 | 0.2 | 818,138 | 3.1 | 897,202 |
| CO-26 | 8.0 | 0.013 | 204.1 | 0.00330 | CO-156 | 1,237.89 | 6.00 | CO-158 | 1,237.21 | 7.70 | 1,573 | 0.47 | 0.4 | 409,101 | 4.3 | 448,636 |
| CO-27 | 8.0 | 0.013 | 414.9 | 0.00330 | CO-179 | 1,235.89 | 6.00 | CO-180 | 1,234.52 | 6.83 | 2,262 | 0.52 | 0.6 | 409,101 | 5.1 | 448,636 |
| CO-28 | 8.0 | 0.013 | 332.5 | 0.00330 | CO-180 | 1,234.42 | 6.93 | CO-181 | 1,233.33 | 8.50 | 4,524 | 0.64 | 1.1 | 409,101 | 7.1 | 448,636 |
| CO-29 | 8.0 | 0.013 | 277.1 | 0.02354 | CO-181 | 1,233.23 | 8.60 | CO-191 | 1,226.70 | 13.11 | 6,786 | 1.43 | 0.6 | 1,092,530 | 5.4 | 1,198,110 |
| CO-30 | 8.0 | 0.013 | 270.1 | 0.00330 | CO-183 | 1,233.56 | 6.00 | CO-184 | 1,232.67 | 6.61 | 1,638 | 0.47 | 0.4 | 409,101 | 4.4 | 448,636 |
| CO-31 | 8.0 | 0.013 | 309.9 | 0.00382 | CO-184 | 1,232.57 | 6.71 | CO-185 | 1,231.39 | 6.00 | 3,276 | 0.61 | 0.7 | 440,096 | 5.9 | 482,626 |
| CO-32 | 8.0 | 0.013 | 314.7 | 0.00330 | CO-185 | 1,231.29 | 6.10 | CO-187 | 1,230.25 | 7.44 | 4,914 | 0.65 | 1.2 | 409,101 | 7.4 | 448,636 |
| CO-33 | 8.0 | 0.013 | 307.8 | 0.01819 | CO-182 | 1,233.71 | 6.00 | CO-189 | 1,228.11 | 11.32 | 1,638 | 0.85 | 0.2 | 960,578 | 3.0 | 1,053,407 |
| CO-34 | 8.0 | 0.013 | 329.0 | 0.00330 | CO-174 | 1,231.87 | 6.00 | CO-175 | 1,230.78 | 8.18 | 1,638 | 0.47 | 0.4 | 409,101 | 4.4 | 448,636 |
| CO-35 | 8.0 | 0.013 | 351.9 | 0.00330 | CO-175 | 1,230.68 | 8.28 | CO-176 | 1,229.52 | 10.44 | 3,276 | 0.58 | 0.8 | 409,101 | 6.1 | 448,636 |
| CO-36 | 8.0 | 0.013 | 128.7 | 0.00330 | CO-176 | 1,229.42 | 10.54 | CO-177 | 1,229.00 | 11.08 | 9,828 | 0.81 | 2.4 | 409,101 | 10.2 | 448,636 |
| CO-37 | 8.0 | 0.013 | 454.1 | 0.00330 | CO-177 | 1,228.90 | 11.18 | CO-178 | 1,227.40 | 14.61 | 12,090 | 0.86 | 3.0 | 409,101 | 11.3 | 448,636 |
| CO-38 | 8.0 | 0.013 | 343.6 | 0.01154 | CO-178 | 1,227.30 | 14.71 | CO-194 | 1,223.33 | 19.71 | 14,352 | 1.41 | 1.9 | 764,954 | 9.1 | 838,878 |
| CO-39 | 8.0 | 0.013 | 340.2 | 0.00330 | CO-168 | 1,234.68 | 6.00 | CO-169 | 1,233.56 | 9.51 | 2,262 | 0.52 | 0.6 | 409,101 | 5.1 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|-------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-40 | 8.0 | 0.013 | 328.1 | 0.00330 | CO-169 | 1,233.46 | 9.61 | CO-170 | 1,232.37 | 11.20 | 4,524 | 0.64 | 1.1 | 409,101 | 7.1 | 448,636 |
| CO-41 | 8.0 | 0.013 | 302.2 | 0.02958 | CO-170 | 1,232.27 | 11.30 | CO-194 | 1,223.33 | 19.71 | 6,786 | 1.55 | 0.6 | 1,224,908 | 5.1 | 1,343,281 |
| CO-42 | 8.0 | 0.013 | 272.3 | 0.00330 | CO-171 | 1,233.03 | 6.00 | CO-172 | 1,232.13 | 6.93 | 1,638 | 0.47 | 0.4 | 409,101 | 4.4 | 448,636 |
| CO-43 | 8.0 | 0.013 | 285.2 | 0.00330 | CO-172 | 1,232.03 | 7.03 | CO-173 | 1,231.09 | 9.14 | 3,276 | 0.58 | 0.8 | 409,101 | 6.1 | 448,636 |
| CO-44 | 8.0 | 0.013 | 313.6 | 0.00469 | CO-173 | 1,230.99 | 9.24 | CO-176 | 1,229.52 | 10.44 | 4,914 | 0.74 | 1.0 | 487,536 | 6.8 | 534,651 |
| CO-45 | 8.0 | 0.013 | 204.3 | 0.00330 | CO-218 | 1,232.04 | 11.12 | CO-219 | 1,231.37 | 11.24 | 23,693 | 1.05 | 5.8 | 409,101 | 15.6 | 448,636 |
| CO-46 | 8.0 | 0.013 | 171.6 | 0.00330 | CO-219 | 1,231.27 | 11.34 | CO-220 | 1,230.70 | 11.77 | 24,907 | 1.07 | 6.1 | 409,101 | 16.0 | 448,636 |
| CO-47 | 8.0 | 0.013 | 188.4 | 0.00330 | CO-220 | 1,230.60 | 11.87 | CO-221 | 1,229.98 | 12.21 | 26,120 | 1.08 | 6.4 | 409,101 | 16.4 | 448,636 |
| CO-48 | 8.0 | 0.013 | 170.1 | 0.00330 | CO-221 | 1,229.88 | 12.31 | CO-229 | 1,229.32 | 13.31 | 27,334 | 1.10 | 6.7 | 409,101 | 16.7 | 448,636 |
| CO-49 | 8.0 | 0.013 | 292.0 | 0.00330 | CO-225 | 1,236.35 | 6.81 | CO-228 | 1,235.39 | 7.21 | 3,642 | 0.60 | 0.9 | 409,101 | 6.4 | 448,636 |
| CO-50 | 8.0 | 0.013 | 265.1 | 0.00875 | CO-225 | 1,236.45 | 6.71 | CO-224 | 1,238.77 | 6.00 | 0 | 0.00 | 0.0 | 666,297 | (N/A) | 730,687 |
| CO-51 | 8.0 | 0.013 | 214.1 | 0.00330 | CO-202 | 1,239.02 | 6.53 | CO-203 | 1,238.31 | 7.59 | 2,223 | 0.52 | 0.5 | 409,101 | 5.1 | 448,636 |
| CO-52 | 8.0 | 0.013 | 290.3 | 0.00330 | CO-229 | 1,229.22 | 13.41 | CO-230 | 1,228.26 | 13.81 | 34,618 | 1.18 | 8.5 | 409,101 | 18.8 | 448,636 |
| CO-53 | 8.0 | 0.013 | 293.7 | 0.00330 | CO-313 | 1,228.84 | 17.35 | CO-314 | 1,227.87 | 17.24 | 136,032 | 1.74 | 33.3 | 409,101 | 37.8 | 448,636 |
| CO-54 | 8.0 | 0.013 | 412.5 | 0.01846 | CO-205 | 1,235.88 | 6.10 | CO-230 | 1,228.26 | 13.81 | 5,865 | 1.26 | 0.6 | 967,660 | 5.3 | 1,061,173 |
| CO-55 | 8.0 | 0.013 | 330.3 | 0.00354 | CO-204 | 1,237.15 | 8.04 | CO-205 | 1,235.98 | 6.00 | 4,651 | 0.66 | 1.1 | 423,544 | 7.1 | 464,475 |
| CO-56 | 8.0 | 0.013 | 291.9 | 0.00330 | CO-203 | 1,238.21 | 7.69 | CO-204 | 1,237.25 | 7.94 | 3,437 | 0.59 | 0.8 | 409,101 | 6.3 | 448,636 |
| CO-57 | 8.0 | 0.013 | 168.3 | 0.00504 | CO-226 | 1,237.88 | 6.00 | CO-227 | 1,237.03 | 6.00 | 1,214 | 0.49 | 0.2 | 505,687 | 3.5 | 554,556 |
| CO-58 | 8.0 | 0.013 | 268.0 | 0.00574 | CO-227 | 1,236.93 | 6.10 | CO-228 | 1,235.39 | 7.21 | 2,428 | 0.63 | 0.4 | 539,697 | 4.7 | 591,853 |
| CO-59 | 8.0 | 0.013 | 136.8 | 0.00889 | CO-222 | 1,238.49 | 6.00 | CO-223 | 1,237.28 | 6.00 | 1,214 | 0.60 | 0.2 | 671,410 | 3.0 | 736,294 |
| CO-60 | 8.0 | 0.013 | 220.0 | 0.00330 | CO-223 | 1,237.18 | 6.10 | CO-225 | 1,236.45 | 6.71 | 2,428 | 0.53 | 0.6 | 409,101 | 5.3 | 448,636 |
| CO-61 | 8.0 | 0.013 | 427.9 | 0.01346 | CO-216 | 1,238.46 | 6.16 | CO-217 | 1,232.70 | 10.83 | 1,258 | 0.71 | 0.2 | 826,282 | 2.8 | 906,132 |
| CO-62 | 8.0 | 0.013 | 252.2 | 0.00330 | CO-215 | 1,239.40 | 6.00 | CO-216 | 1,238.56 | 6.06 | 746 | 0.37 | 0.2 | 409,101 | 3.1 | 448,636 |
| CO-63 | 8.0 | 0.013 | 125.8 | 0.00330 | CO-201 | 1,239.53 | 6.10 | CO-202 | 1,239.12 | 6.43 | 2,223 | 0.52 | 0.5 | 409,101 | 5.1 | 448,636 |
| CO-64 | 8.0 | 0.013 | 443.0 | 0.00491 | CO-327 | 1,244.97 | 6.00 | CO-328 | 1,242.79 | 6.00 | 2,262 | 0.59 | 0.5 | 499,242 | 4.7 | 547,488 |
| CO-65 | 8.0 | 0.013 | 244.2 | 0.00330 | CO-328 | 1,242.69 | 6.10 | CO-329 | 1,241.89 | 6.91 | 4,524 | 0.64 | 1.1 | 409,101 | 7.1 | 448,636 |
| CO-66 | 8.0 | 0.013 | 301.2 | 0.00330 | CO-329 | 1,241.79 | 7.01 | CO-330 | 1,240.79 | 7.18 | 6,786 | 0.73 | 1.7 | 409,101 | 8.6 | 448,636 |
| CO-67 | 8.0 | 0.013 | 278.8 | 0.01086 | CO-330 | 1,240.69 | 7.28 | CO-331 | 1,237.66 | 7.53 | 9,048 | 1.19 | 1.2 | 742,226 | 7.4 | 813,954 |
| CO-68 | 8.0 | 0.013 | 271.4 | 0.00330 | CO-326 | 1,238.56 | 7.24 | CO-331 | 1,237.66 | 7.53 | 26,052 | 1.08 | 6.4 | 409,101 | 16.4 | 448,636 |
| CO-69 | 8.0 | 0.013 | 217.9 | 0.00330 | CO-325 | 1,239.38 | 7.80 | CO-326 | 1,238.66 | 7.14 | 14,742 | 0.92 | 3.6 | 409,101 | 12.4 | 448,636 |
| CO-70 | 8.0 | 0.013 | 200.2 | 0.05237 | CO-331 | 1,237.56 | 7.63 | CO-332 | 1,227.08 | 17.75 | 37,362 | 3.18 | 2.3 | 1,629,787 | 10.0 | 1,787,287 |
| CO-71 | 8.0 | 0.013 | 210.0 | 0.00330 | CO-314 | 1,227.77 | 17.34 | CO-332 | 1,227.08 | 17.75 | 136,032 | 1.74 | 33.3 | 409,101 | 37.8 | 448,636 |
| CO-72 | 10.0 | 0.013 | 216.7 | 0.00671 | CO-332 | 1,226.81 | 17.85 | CO-333 | 1,225.36 | 18.70 | 173,394 | 2.36 | 16.4 | 1,057,910 | 26.1 | 1,160,144 |
| CO-73 | 8.0 | 0.013 | 338.2 | 0.00330 | CO-324 | 1,240.59 | 7.06 | CO-325 | 1,239.48 | 7.70 | 12,480 | 0.87 | 3.1 | 409,101 | 11.5 | 448,636 |
| CO-74 | 8.0 | 0.013 | 322.1 | 0.00503 | CO-316 | 1,245.17 | 6.00 | CO-317 | 1,243.55 | 6.41 | 0 | 0.00 | 0.0 | 505,011 | (N/A) | 553,815 |
| CO-75 | 8.0 | 0.013 | 239.1 | 0.00330 | CO-317 | 1,243.45 | 6.51 | CO-318 | 1,242.66 | 7.79 | 4,524 | 0.64 | 1.1 | 409,101 | 7.1 | 448,636 |
| CO-76 | 8.0 | 0.013 | 277.1 | 0.00330 | CO-318 | 1,242.56 | 7.89 | CO-319 | 1,241.64 | 7.34 | 6,786 | 0.73 | 1.7 | 409,101 | 8.6 | 448,636 |
| CO-77 | 8.0 | 0.013 | 341.9 | 0.00843 | CO-319 | 1,241.54 | 7.44 | CO-326 | 1,238.66 | 7.14 | 9,048 | 1.10 | 1.4 | 653,971 | 7.8 | 717,169 |
| CO-78 | 8.0 | 0.013 | 230.6 | 0.00330 | CO-315 | 1,244.31 | 6.00 | CO-317 | 1,243.55 | 6.41 | 2,262 | 0.52 | 0.6 | 409,101 | 5.1 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-79 | 8.0 | 0.013 | 408.5 | 0.01368 | CO-211 | 1,241.92 | 6.00 | CO-212 | 1,236.33 | 9.83 | 2,223 | 0.84 | 0.3 | 833,053 | 3.6 | 913,558 |
| CO-80 | 8.0 | 0.013 | 423.2 | 0.00330 | CO-212 | 1,236.23 | 9.93 | CO-213 | 1,234.84 | 10.49 | 11,115 | 0.84 | 2.7 | 409,101 | 10.9 | 448,636 |
| CO-81 | 8.0 | 0.013 | 295.1 | 0.00330 | CO-213 | 1,234.74 | 10.59 | CO-214 | 1,233.76 | 10.08 | 13,338 | 0.89 | 3.3 | 409,101 | 11.8 | 448,636 |
| CO-82 | 8.0 | 0.013 | 291.2 | 0.00330 | CO-214 | 1,233.66 | 10.18 | CO-217 | 1,232.70 | 10.83 | 20,007 | 1.00 | 4.9 | 409,101 | 14.4 | 448,636 |
| CO-83 | 8.0 | 0.013 | 346.1 | 0.00348 | CO-206 | 1,239.84 | 6.00 | CO-207 | 1,238.64 | 6.00 | 2,223 | 0.52 | 0.5 | 419,865 | 5.0 | 460,440 |
| CO-84 | 8.0 | 0.013 | 334.6 | 0.01426 | CO-207 | 1,238.54 | 6.10 | CO-214 | 1,233.76 | 10.08 | 4,446 | 1.06 | 0.5 | 850,525 | 5.0 | 932,718 |
| CO-85 | 8.0 | 0.013 | 272.6 | 0.00330 | CO-200 | 1,240.53 | 6.00 | CO-201 | 1,239.63 | 6.00 | 2,223 | 0.52 | 0.5 | 409,130 | 5.1 | 448,667 |
| CO-86 | 8.0 | 0.013 | 507.9 | 0.00330 | CO-209 | 1,239.22 | 6.00 | CO-210 | 1,237.54 | 9.45 | 2,223 | 0.52 | 0.5 | 409,101 | 5.1 | 448,636 |
| CO-87 | 8.0 | 0.013 | 335.8 | 0.00330 | CO-210 | 1,237.44 | 9.55 | CO-212 | 1,236.33 | 9.83 | 6,669 | 0.72 | 1.6 | 409,101 | 8.5 | 448,636 |
| CO-88 | 8.0 | 0.013 | 450.5 | 0.00977 | CO-208 | 1,241.94 | 6.00 | CO-210 | 1,237.54 | 9.45 | 2,223 | 0.75 | 0.3 | 703,823 | 3.9 | 771,839 |
| CO-89 | 15.0 | 0.013 | 500.0 | 0.00140 | CO-233 | 1,225.64 | 17.46 | CO-333 | 1,224.94 | 18.70 | 465,170 | 1.72 | 32.7 | 1,424,430 | 37.4 | 1,562,085 |
| CO-90 | 15.0 | 0.013 | 502.0 | 0.00140 | CO-232 | 1,226.44 | 13.95 | CO-233 | 1,225.74 | 17.36 | 465,170 | 1.72 | 32.7 | 1,424,430 | 37.4 | 1,562,085 |
| CO-91 | 8.0 | 0.013 | 500.0 | 0.00342 | CO-307 | 1,246.31 | 6.00 | CO-308 | 1,244.60 | 6.00 | 3,406 | 0.59 | 0.8 | 416,394 | 6.2 | 456,633 |
| CO-92 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-308 | 1,244.50 | 6.10 | CO-309 | 1,242.85 | 6.22 | 6,812 | 0.73 | 1.7 | 409,101 | 8.6 | 448,636 |
| CO-93 | 8.0 | 0.013 | 244.2 | 0.04183 | CO-309 | 1,242.75 | 6.32 | CO-310 | 1,232.54 | 15.58 | 10,218 | 1.98 | 0.7 | 1,456,569 | 5.7 | 1,597,330 |
| CO-94 | 8.0 | 0.013 | 333.1 | 0.00330 | CO-310 | 1,232.44 | 15.68 | CO-311 | 1,231.34 | 16.79 | 125,814 | 1.70 | 30.8 | 409,101 | 36.3 | 448,636 |
| CO-95 | 8.0 | 0.013 | 391.4 | 0.00330 | CO-311 | 1,231.24 | 16.89 | CO-312 | 1,229.95 | 17.72 | 136,032 | 1.74 | 33.3 | 409,101 | 37.8 | 448,636 |
| CO-96 | 8.0 | 0.013 | 274.7 | 0.00330 | CO-312 | 1,229.85 | 17.82 | CO-313 | 1,228.94 | 17.25 | 136,032 | 1.74 | 33.3 | 409,101 | 37.8 | 448,636 |
| CO-97 | 8.0 | 0.013 | 487.0 | 0.00330 | CO-320 | 1,246.00 | 6.00 | CO-321 | 1,244.39 | 8.08 | 3,406 | 0.58 | 0.8 | 409,101 | 6.2 | 448,636 |
| CO-98 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-321 | 1,244.29 | 8.18 | CO-322 | 1,242.64 | 7.43 | 6,812 | 0.73 | 1.7 | 409,101 | 8.6 | 448,636 |
| CO-99 | 8.0 | 0.013 | 476.9 | 0.00330 | CO-322 | 1,242.54 | 7.53 | CO-323 | 1,240.97 | 6.84 | 10,218 | 0.82 | 2.5 | 409,101 | 10.4 | 448,636 |
| CO-100 | 8.0 | 0.013 | 52.1 | 0.00330 | CO-323 | 1,240.87 | 6.94 | CO-324 | 1,240.69 | 6.96 | 10,218 | 0.82 | 2.5 | 409,101 | 10.4 | 448,636 |
| CO-101 | 8.0 | 0.013 | 500.0 | 0.00344 | CO-234 | 1,245.88 | 6.00 | CO-235 | 1,244.16 | 6.00 | 3,406 | 0.59 | 0.8 | 417,671 | 6.2 | 458,034 |
| CO-102 | 8.0 | 0.013 | 500.0 | 0.00637 | CO-235 | 1,244.06 | 6.10 | CO-236 | 1,240.88 | 7.39 | 6,812 | 0.91 | 1.2 | 568,380 | 7.4 | 623,307 |
| CO-103 | 8.0 | 0.013 | 135.2 | 0.06980 | CO-236 | 1,240.78 | 7.49 | CO-311 | 1,231.34 | 16.79 | 10,218 | 2.37 | 0.5 | 1,881,488 | 5.1 | 2,063,312 |
| CO-104 | 8.0 | 0.013 | 325.4 | 0.00330 | CO-303 | 1,236.70 | 14.68 | CO-304 | 1,235.63 | 14.74 | 55,458 | 1.35 | 13.6 | 409,101 | 23.7 | 448,636 |
| CO-105 | 8.0 | 0.013 | 296.2 | 0.00395 | CO-304 | 1,235.53 | 14.84 | CO-305 | 1,234.36 | 15.19 | 55,458 | 1.44 | 12.4 | 447,367 | 22.7 | 490,600 |
| CO-106 | 8.0 | 0.013 | 322.5 | 0.00330 | CO-305 | 1,234.26 | 15.29 | CO-306 | 1,233.19 | 16.07 | 115,596 | 1.67 | 28.3 | 409,101 | 34.6 | 448,636 |
| CO-107 | 8.0 | 0.013 | 168.4 | 0.00330 | CO-306 | 1,233.09 | 16.17 | CO-310 | 1,232.54 | 15.58 | 115,596 | 1.67 | 28.3 | 409,101 | 34.6 | 448,636 |
| CO-108 | 8.0 | 0.013 | 241.4 | 0.00785 | CO-263 | 1,248.08 | 6.00 | CO-264 | 1,246.19 | 7.24 | 2,702 | 0.74 | 0.4 | 630,812 | 4.5 | 691,773 |
| CO-109 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-264 | 1,246.09 | 7.34 | CO-265 | 1,244.44 | 7.19 | 8,105 | 0.77 | 2.0 | 409,101 | 9.3 | 448,636 |
| CO-110 | 8.0 | 0.013 | 366.6 | 0.00330 | CO-265 | 1,244.34 | 7.29 | CO-266 | 1,243.13 | 7.49 | 10,807 | 0.83 | 2.6 | 409,101 | 10.7 | 448,636 |
| CO-111 | 8.0 | 0.013 | 75.5 | 0.00330 | CO-266 | 1,243.03 | 7.59 | CO-267 | 1,242.78 | 7.72 | 13,508 | 0.89 | 3.3 | 409,101 | 11.9 | 448,636 |
| CO-112 | 8.0 | 0.013 | 151.0 | 0.00330 | CO-267 | 1,242.68 | 7.82 | CO-268 | 1,242.18 | 8.08 | 24,315 | 1.06 | 5.9 | 409,101 | 15.8 | 448,636 |
| CO-113 | 8.0 | 0.013 | 195.5 | 0.03948 | CO-268 | 1,242.08 | 8.18 | CO-305 | 1,234.36 | 15.19 | 29,718 | 2.68 | 2.1 | 1,415,048 | 9.6 | 1,551,796 |
| CO-114 | 8.0 | 0.013 | 244.9 | 0.00330 | CO-262 | 1,246.99 | 6.00 | CO-264 | 1,246.19 | 7.24 | 2,702 | 0.55 | 0.7 | 409,101 | 5.6 | 448,636 |
| CO-115 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-255 | 1,247.81 | 6.00 | CO-256 | 1,246.16 | 6.20 | 2,702 | 0.55 | 0.7 | 409,101 | 5.6 | 448,636 |
| CO-116 | 8.0 | 0.013 | 500.0 | 0.00406 | CO-256 | 1,246.06 | 6.30 | CO-257 | 1,244.03 | 6.00 | 5,403 | 0.72 | 1.2 | 453,747 | 7.4 | 497,596 |
| CO-117 | 8.0 | 0.013 | 43.5 | 0.00330 | CO-257 | 1,243.93 | 6.10 | CO-258 | 1,243.79 | 6.70 | 5,403 | 0.67 | 1.3 | 409,101 | 7.7 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|--------------------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-118 | 8.0 | 0.013 | 128.2 | 0.01177 | CO-258 | 1,243.69 | 6.80 | CO-268 | 1,242.18 | 8.08 | 5,403 | 1.05 | 0.7 | 772,586 | 5.7 | 847,248 |
| CO-119 | 8.0 | 0.013 | 500.0 | 0.00401 | CO-259 | 1,248.09 | 6.00 | CO-260 | 1,246.09 | 6.00 | 2,702 | 0.58 | 0.6 | 450,694 | 5.3 | 494,248 |
| CO-120 | 8.0 | 0.013 | 378.6 | 0.00330 | CO-260 | 1,245.99 | 6.10 | CO-261 | 1,244.74 | 6.18 | 5,403 | 0.67 | 1.3 | 409,101 | 7.7 | 448,636 |
| CO-121 | 8.0 | 0.013 | 271.4 | 0.00686 | CO-261 | 1,244.64 | 6.28 | CO-267 | 1,242.78 | 7.72 | 8,105 | 0.99 | 1.4 | 589,843 | 7.8 | 646,845 |
| CO-122 | 8.0 | 0.013 | 214.2 | 0.00330 | CO-296 | 1,251.94 | 6.00 | CO-297 | 1,251.24 | 7.81 | 1,788 | 0.48 | 0.4 | 409,101 | 4.6 | 448,636 |
| CO-123 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-297 | 1,251.14 | 7.91 | CO-298 | 1,249.49 | 7.49 | 3,577 | 0.59 | 0.9 | 409,101 | 6.4 | 448,636 |
| CO-124 | 8.0 | 0.013 | 282.3 | 0.00330 | CO-298 | 1,249.39 | 7.59 | CO-299 | 1,248.46 | 7.37 | 5,365 | 0.67 | 1.3 | 409,101 | 7.7 | 448,636 |
| CO-125 | 8.0 | 0.013 | 295.3 | 0.00330 | CO-299 | 1,248.36 | 7.47 | CO-300 | 1,247.38 | 7.47 | 7,154 | 0.74 | 1.7 | 409,101 | 8.8 | 448,636 |
| CO-126 | 8.0 | 0.013 | 364.6 | 0.00520 | CO-300 | 1,247.28 | 7.57 | CO-301 | 1,245.39 | 8.05 | 12,519 | 1.02 | 2.4 | 513,537 | 10.3 | 563,164 |
| CO-127 | 8.0 | 0.013 | 208.7 | 0.03388 | CO-302 | 1,243.87 | 8.18 | CO-303 | 1,236.80 | 14.58 | 25,038 | 2.42 | 1.9 | 1,310,798 | 9.2 | 1,437,471 |
| CO-128 | 8.0 | 0.013 | 500.0 | 0.00405 | CO-294 | 1,252.38 | 6.00 | CO-295 | 1,250.35 | 6.00 | 1,788 | 0.52 | 0.4 | 453,310 | 4.4 | 497,117 |
| CO-129 | 8.0 | 0.013 | 330.0 | 0.00869 | CO-295 | 1,250.25 | 6.10 | CO-300 | 1,247.38 | 7.47 | 3,577 | 0.83 | 0.5 | 664,054 | 5.1 | 728,227 |
| CO-130 | 8.0 | 0.013 | 303.9 | 0.00330 | CO-289 | 1,250.29 | 6.00 | CO-290 | 1,249.28 | 7.58 | 1,788 | 0.48 | 0.4 | 409,101 | 4.6 | 448,636 |
| CO-131 | 8.0 | 0.013 | 294.5 | 0.00600 | CO-290 | 1,249.18 | 7.68 | CO-291 | 1,247.42 | 8.30 | 3,577 | 0.73 | 0.6 | 551,551 | 5.5 | 604,852 |
| CO-132 | 8.0 | 0.013 | 203.4 | 0.00330 | CO-291 | 1,247.32 | 8.40 | CO-292 | 1,246.64 | 8.16 | 7,154 | 0.74 | 1.7 | 409,101 | 8.8 | 448,636 |
| CO-133 | 8.0 | 0.013 | 152.2 | 0.00330 | CO-292 | 1,246.54 | 8.26 | CO-293 | 1,246.04 | 7.99 | 7,154 | 0.74 | 1.7 | 409,101 | 8.8 | 448,636 |
| CO-134 | 8.0 | 0.013 | 168.6 | 0.00330 | CO-293 | 1,245.94 | 8.09 | CO-301 | 1,245.39 | 8.05 | 8,942 | 0.79 | 2.2 | 409,101 | 9.8 | 448,636 |
| CO-135 | 8.0 | 0.013 | 398.1 | 0.00330 | CO-301 | 1,245.29 | 8.15 | CO-302 | 1,243.97 | 8.08 | 23,250 | 1.05 | 5.7 | 409,101 | 15.5 | 448,636 |
| CO-136 | 8.0 | 0.013 | 346.5 | 0.00330 | CO-288 | 1,248.56 | 6.00 | CO-291 | 1,247.42 | 8.30 | 1,788 | 0.48 | 0.4 | 409,101 | 4.6 | 448,636 |
| CO-137 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-124 | 1,238.50 | 6.00 | CO-125 | 1,236.85 | 7.11 | 1,969 | 0.50 | 0.5 | 409,101 | 4.8 | 448,636 |
| CO-138 | 8.0 | 0.013 | 324.5 | 0.02503 | CO-125 | 1,236.75 | 7.21 | CO-150 | 1,228.63 | 14.94 | 3,939 | 1.23 | 0.3 | 1,126,787 | 4.2 | 1,235,678 |
| CO-139 | 10.0 | 0.013 | 500.0 | 0.00240 | CO-150 | 1,228.36 | 15.04 | CO-151 | 1,227.16 | 15.02 | 248,367 | 1.81 | 39.3 | 632,566 | 41.3 | 693,696 |
| CO-140 | 10.0 | 0.013 | 500.0 | 0.00240 | CO-151 | 1,227.06 | 15.12 | CO-152 | 1,225.86 | 14.50 | 248,367 | 1.81 | 39.3 | 632,566 | 41.3 | 693,696 |
| CO-141 | 12.0 | 0.013 | 95.5 | 0.00190 | CO-154 | 1,212.72 | 26.07 | O-2 - Lift Station | 1,212.53 | 26.51 | 410,974 | 1.88 | 44.9 | 915,224 | 44.6 | 1,003,669 |
| CO-142 | 10.0 | 0.013 | 263.0 | 0.02395 | CO-152 | 1,225.76 | 14.60 | CO-153 | 1,219.47 | 19.78 | 248,367 | 4.12 | 12.4 | 1,998,122 | 22.7 | 2,191,217 |
| CO-143 | 10.0 | 0.013 | 124.6 | 0.05121 | CO-153 | 1,219.37 | 19.88 | CO-154 | 1,212.98 | 25.97 | 268,062 | 5.52 | 9.2 | 2,921,984 | 19.6 | 3,204,359 |
| CO-144 | 8.0 | 0.013 | 465.8 | 0.00684 | CO-87 | 1,236.54 | 6.00 | CO-88 | 1,233.36 | 8.38 | 1,969 | 0.64 | 0.3 | 588,937 | 4.1 | 645,851 |
| CO-145 | 8.0 | 0.013 | 281.9 | 0.00330 | CO-88 | 1,233.26 | 8.48 | CO-89 | 1,232.32 | 8.85 | 5,908 | 0.70 | 1.4 | 409,101 | 8.0 | 448,636 |
| CO-146 | 8.0 | 0.013 | 309.7 | 0.00330 | CO-89 | 1,232.22 | 8.95 | CO-90 | 1,231.20 | 8.87 | 19,695 | 1.00 | 4.8 | 409,101 | 14.3 | 448,636 |
| CO-147 | 8.0 | 0.013 | 218.0 | 0.05262 | CO-90 | 1,231.10 | 8.97 | CO-153 | 1,219.63 | 19.78 | 19,695 | 2.61 | 1.2 | 1,633,616 | 7.4 | 1,791,486 |
| CO-148 | 8.0 | 0.013 | 391.5 | 0.00330 | CO-86 | 1,234.65 | 6.00 | CO-88 | 1,233.36 | 8.38 | 1,969 | 0.50 | 0.5 | 409,101 | 4.8 | 448,636 |
| CO-149 | 8.0 | 0.013 | 441.7 | 0.00330 | CO-83 | 1,236.01 | 6.00 | CO-84 | 1,234.55 | 6.87 | 1,969 | 0.50 | 0.5 | 409,101 | 4.8 | 448,636 |
| CO-150 | 8.0 | 0.013 | 187.8 | 0.00330 | CO-84 | 1,234.45 | 6.97 | CO-85 | 1,233.83 | 8.19 | 3,939 | 0.61 | 1.0 | 409,101 | 6.7 | 448,636 |
| CO-151 | 8.0 | 0.013 | 297.9 | 0.00472 | CO-85 | 1,233.73 | 8.29 | CO-89 | 1,232.32 | 8.85 | 11,817 | 0.97 | 2.4 | 489,450 | 10.3 | 536,750 |
| CO-152 | 8.0 | 0.013 | 468.3 | 0.00330 | CO-80 | 1,238.84 | 6.00 | CO-81 | 1,237.29 | 6.30 | 1,969 | 0.50 | 0.5 | 409,101 | 4.8 | 448,636 |
| CO-153 | 8.0 | 0.013 | 161.2 | 0.00330 | CO-81 | 1,237.19 | 6.40 | CO-82 | 1,236.66 | 6.85 | 3,939 | 0.61 | 1.0 | 409,101 | 6.7 | 448,636 |
| CO-154 | 8.0 | 0.013 | 291.8 | 0.00934 | CO-82 | 1,236.56 | 6.95 | CO-85 | 1,233.83 | 8.19 | 5,908 | 0.99 | 0.9 | 688,421 | 6.3 | 754,949 |
| CO-155 | 8.0 | 0.013 | 375.6 | 0.00330 | CO-249 | 1,240.33 | 6.00 | CO-250 | 1,239.09 | 6.93 | 1,789 | 0.48 | 0.4 | 409,101 | 4.6 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-156 | 8.0 | 0.013 | 274.0 | 0.00330 | CO-250 | 1,238.99 | 7.03 | CO-251 | 1,238.09 | 9.22 | 3,579 | 0.59 | 0.9 | 409,101 | 6.4 | 448,636 |
| CO-157 | 8.0 | 0.013 | 286.6 | 0.00330 | CO-251 | 1,237.99 | 9.32 | CO-252 | 1,237.04 | 11.20 | 8,947 | 0.79 | 2.2 | 409,101 | 9.8 | 448,636 |
| CO-158 | 8.0 | 0.013 | 326.0 | 0.00330 | CO-252 | 1,236.94 | 11.30 | CO-253 | 1,235.87 | 12.66 | 14,315 | 0.91 | 3.5 | 409,101 | 12.2 | 448,636 |
| CO-159 | 8.0 | 0.013 | 190.5 | 0.00330 | CO-253 | 1,235.77 | 12.76 | CO-254 | 1,235.14 | 13.70 | 16,105 | 0.94 | 3.9 | 409,101 | 13.0 | 448,636 |
| CO-160 | 8.0 | 0.013 | 206.6 | 0.00330 | CO-254 | 1,235.04 | 13.80 | CO-305 | 1,234.36 | 15.19 | 30,420 | 1.13 | 7.4 | 409,101 | 17.6 | 448,636 |
| CO-161 | 8.0 | 0.013 | 259.7 | 0.00330 | CO-240 | 1,241.78 | 6.00 | CO-241 | 1,240.92 | 6.37 | 1,789 | 0.48 | 0.4 | 409,101 | 4.6 | 448,636 |
| CO-162 | 8.0 | 0.013 | 301.8 | 0.00330 | CO-241 | 1,240.82 | 6.47 | CO-242 | 1,239.82 | 8.58 | 3,579 | 0.59 | 0.9 | 409,101 | 6.4 | 448,636 |
| CO-163 | 8.0 | 0.013 | 311.6 | 0.00330 | CO-242 | 1,239.72 | 8.68 | CO-243 | 1,238.70 | 10.84 | 5,368 | 0.67 | 1.3 | 409,101 | 7.7 | 448,636 |
| CO-164 | 8.0 | 0.013 | 212.6 | 0.00330 | CO-243 | 1,238.60 | 10.94 | CO-244 | 1,237.89 | 11.34 | 7,158 | 0.74 | 1.7 | 409,101 | 8.8 | 448,636 |
| CO-165 | 8.0 | 0.013 | 136.6 | 0.01943 | CO-244 | 1,237.79 | 11.44 | CO-254 | 1,235.14 | 13.70 | 14,315 | 1.69 | 1.4 | 992,729 | 8.0 | 1,088,665 |
| CO-166 | 8.0 | 0.013 | 129.4 | 0.00330 | CO-245 | 1,242.71 | 6.00 | CO-246 | 1,242.29 | 6.02 | 1,789 | 0.48 | 0.4 | 409,101 | 4.6 | 448,636 |
| CO-167 | 8.0 | 0.013 | 190.3 | 0.02702 | CO-246 | 1,242.19 | 6.12 | CO-252 | 1,237.04 | 11.20 | 3,579 | 1.24 | 0.3 | 1,170,561 | 3.9 | 1,283,682 |
| CO-168 | 8.0 | 0.013 | 144.8 | 0.00406 | CO-247 | 1,241.90 | 6.00 | CO-248 | 1,241.31 | 6.00 | 1,789 | 0.52 | 0.4 | 453,944 | 4.4 | 497,812 |
| CO-169 | 8.0 | 0.013 | 199.7 | 0.01563 | CO-248 | 1,241.21 | 6.10 | CO-251 | 1,238.09 | 9.22 | 3,579 | 1.03 | 0.4 | 890,224 | 4.4 | 976,253 |
| CO-170 | 8.0 | 0.013 | 396.8 | 0.00330 | CO-237 | 1,242.13 | 6.00 | CO-238 | 1,240.83 | 8.88 | 1,789 | 0.48 | 0.4 | 409,101 | 4.6 | 448,636 |
| CO-171 | 8.0 | 0.013 | 398.7 | 0.00330 | CO-238 | 1,240.73 | 8.98 | CO-239 | 1,239.41 | 10.78 | 3,579 | 0.59 | 0.9 | 409,101 | 6.4 | 448,636 |
| CO-172 | 8.0 | 0.013 | 278.4 | 0.00508 | CO-239 | 1,239.31 | 10.88 | CO-244 | 1,237.89 | 11.34 | 5,368 | 0.78 | 1.1 | 507,823 | 7.0 | 556,898 |
| CO-173 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-278 | 1,248.27 | 6.00 | CO-279 | 1,246.62 | 6.16 | 1,901 | 0.50 | 0.5 | 409,101 | 4.7 | 448,636 |
| CO-174 | 8.0 | 0.013 | 453.8 | 0.00385 | CO-279 | 1,246.52 | 6.26 | CO-280 | 1,244.77 | 6.00 | 3,802 | 0.64 | 0.9 | 441,988 | 6.3 | 484,701 |
| CO-175 | 8.0 | 0.013 | 288.9 | 0.00330 | CO-280 | 1,244.67 | 6.10 | CO-281 | 1,243.72 | 6.59 | 5,704 | 0.69 | 1.4 | 409,101 | 7.9 | 448,636 |
| CO-176 | 8.0 | 0.013 | 313.5 | 0.00330 | CO-281 | 1,243.62 | 6.69 | CO-282 | 1,242.58 | 8.91 | 7,605 | 0.75 | 1.9 | 409,101 | 9.1 | 448,636 |
| CO-177 | 8.0 | 0.013 | 313.9 | 0.00330 | CO-282 | 1,242.48 | 9.01 | CO-283 | 1,241.45 | 11.24 | 9,506 | 0.80 | 2.3 | 409,101 | 10.1 | 448,636 |
| CO-178 | 8.0 | 0.013 | 378.6 | 0.00378 | CO-283 | 1,241.35 | 11.34 | CO-284 | 1,239.91 | 11.61 | 13,309 | 0.93 | 3.0 | 437,784 | 11.5 | 480,091 |
| CO-179 | 8.0 | 0.013 | 277.3 | 0.00330 | CO-284 | 1,239.81 | 11.71 | CO-285 | 1,238.90 | 13.08 | 28,519 | 1.11 | 7.0 | 409,101 | 17.1 | 448,636 |
| CO-180 | 8.0 | 0.013 | 206.9 | 0.00330 | CO-285 | 1,238.80 | 13.18 | CO-286 | 1,238.12 | 13.41 | 30,420 | 1.13 | 7.4 | 409,101 | 17.6 | 448,636 |
| CO-181 | 8.0 | 0.013 | 130.0 | 0.00330 | CO-286 | 1,238.02 | 13.51 | CO-287 | 1,237.59 | 12.93 | 30,420 | 1.13 | 7.4 | 409,101 | 17.6 | 448,636 |
| CO-182 | 8.0 | 0.013 | 208.0 | 0.00330 | CO-287 | 1,237.49 | 13.03 | CO-303 | 1,236.80 | 14.58 | 30,420 | 1.13 | 7.4 | 409,101 | 17.6 | 448,636 |
| CO-183 | 8.0 | 0.013 | 227.1 | 0.00330 | CO-276 | 1,248.06 | 6.00 | CO-277 | 1,247.31 | 6.08 | 1,901 | 0.50 | 0.5 | 409,101 | 4.7 | 448,636 |
| CO-184 | 8.0 | 0.013 | 334.0 | 0.01727 | CO-277 | 1,247.21 | 6.18 | CO-283 | 1,241.45 | 11.24 | 3,802 | 1.08 | 0.4 | 935,767 | 4.4 | 1,026,198 |
| CO-185 | 8.0 | 0.013 | 193.0 | 0.02519 | CO-275 | 1,244.78 | 6.00 | CO-284 | 1,239.91 | 11.61 | 1,901 | 1.00 | 0.2 | 1,130,303 | 2.9 | 1,239,534 |
| CO-186 | 8.0 | 0.013 | 129.0 | 0.00330 | CO-271 | 1,242.69 | 6.00 | CO-272 | 1,242.26 | 7.01 | 1,901 | 0.50 | 0.5 | 409,101 | 4.7 | 448,636 |
| CO-187 | 8.0 | 0.013 | 195.6 | 0.00330 | CO-272 | 1,242.16 | 7.11 | CO-273 | 1,241.51 | 8.69 | 5,704 | 0.69 | 1.4 | 409,101 | 7.9 | 448,636 |
| CO-188 | 8.0 | 0.013 | 126.2 | 0.00330 | CO-273 | 1,241.41 | 8.79 | CO-274 | 1,241.00 | 9.69 | 7,605 | 0.75 | 1.9 | 409,101 | 9.1 | 448,636 |
| CO-189 | 8.0 | 0.013 | 298.0 | 0.00330 | CO-274 | 1,240.90 | 9.79 | CO-284 | 1,239.91 | 11.61 | 11,408 | 0.85 | 2.8 | 409,101 | 11.0 | 448,636 |
| CO-190 | 8.0 | 0.013 | 215.8 | 0.01570 | CO-269 | 1,244.39 | 6.00 | CO-274 | 1,241.00 | 9.69 | 1,901 | 0.86 | 0.2 | 892,445 | 3.2 | 978,689 |
| CO-191 | 8.0 | 0.013 | 201.9 | 0.00424 | CO-270 | 1,243.12 | 6.00 | CO-272 | 1,242.26 | 7.01 | 1,901 | 0.54 | 0.4 | 463,895 | 4.4 | 508,725 |
| CO-192 | 8.0 | 0.013 | 342.1 | 0.00330 | CO-113 | 1,242.96 | 8.67 | CO-114 | 1,241.83 | 7.73 | 3,120 | 0.57 | 0.8 | 409,101 | 6.0 | 448,636 |
| CO-193 | 8.0 | 0.013 | 342.4 | 0.00330 | CO-114 | 1,241.73 | 7.83 | CO-115 | 1,240.60 | 9.14 | 4,680 | 0.64 | 1.1 | 409,101 | 7.2 | 448,636 |
| CO-194 | 8.0 | 0.013 | 171.4 | 0.00330 | CO-115 | 1,240.50 | 9.24 | CO-116 | 1,239.94 | 9.77 | 6,240 | 0.71 | 1.5 | 409,101 | 8.2 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-195 | 8.0 | 0.013 | 143.2 | 0.00330 | CO-116 | 1,239.84 | 9.87 | CO-117 | 1,239.36 | 10.02 | 7,800 | 0.75 | 1.9 | 409,101 | 9.2 | 448,636 |
| CO-196 | 8.0 | 0.013 | 143.8 | 0.00811 | CO-117 | 1,239.26 | 10.12 | CO-118 | 1,238.10 | 9.67 | 12,480 | 1.19 | 1.9 | 641,425 | 9.3 | 703,411 |
| CO-197 | 8.0 | 0.013 | 192.7 | 0.00330 | CO-118 | 1,238.00 | 9.77 | CO-119 | 1,237.36 | 10.20 | 23,400 | 1.05 | 5.7 | 409,101 | 15.5 | 448,636 |
| CO-198 | 8.0 | 0.013 | 262.4 | 0.00330 | CO-119 | 1,237.26 | 10.30 | CO-120 | 1,236.40 | 11.21 | 23,400 | 1.05 | 5.7 | 409,101 | 15.5 | 448,636 |
| CO-199 | 8.0 | 0.013 | 236.1 | 0.00330 | CO-120 | 1,236.30 | 11.31 | CO-121 | 1,235.52 | 10.53 | 23,400 | 1.05 | 5.7 | 409,101 | 15.5 | 448,636 |
| CO-200 | 8.0 | 0.013 | 391.4 | 0.00330 | CO-121 | 1,235.42 | 10.63 | CO-122 | 1,234.13 | 10.96 | 23,400 | 1.05 | 5.7 | 409,101 | 15.5 | 448,636 |
| CO-201 | 8.0 | 0.013 | 265.1 | 0.00330 | CO-122 | 1,234.03 | 11.06 | CO-123 | 1,233.15 | 11.29 | 23,400 | 1.05 | 5.7 | 409,101 | 15.5 | 448,636 |
| CO-202 | 8.0 | 0.013 | 450.1 | 0.00982 | CO-123 | 1,233.05 | 11.39 | CO-150 | 1,228.63 | 14.94 | 43,056 | 1.85 | 6.1 | 705,754 | 16.0 | 773,956 |
| CO-203 | 8.0 | 0.013 | 223.7 | 0.00330 | CO-112 | 1,243.80 | 6.00 | CO-113 | 1,243.06 | 8.57 | 1,560 | 0.47 | 0.4 | 409,101 | 4.3 | 448,636 |
| CO-204 | 8.0 | 0.013 | 390.7 | 0.00330 | CO-109 | 1,243.94 | 6.00 | CO-110 | 1,242.65 | 7.16 | 1,560 | 0.47 | 0.4 | 409,101 | 4.3 | 448,636 |
| CO-205 | 8.0 | 0.013 | 307.1 | 0.00330 | CO-110 | 1,242.55 | 7.26 | CO-111 | 1,241.54 | 7.95 | 3,120 | 0.57 | 0.8 | 409,101 | 6.0 | 448,636 |
| CO-206 | 8.0 | 0.013 | 68.4 | 0.03031 | CO-111 | 1,241.44 | 8.05 | CO-117 | 1,239.36 | 10.02 | 3,120 | 1.23 | 0.3 | 1,239,902 | 3.6 | 1,359,724 |
| CO-207 | 8.0 | 0.013 | 99.1 | 0.00902 | CO-104 | 1,241.86 | 6.00 | CO-105 | 1,240.97 | 6.74 | 1,560 | 0.65 | 0.2 | 676,379 | 3.4 | 741,743 |
| CO-208 | 8.0 | 0.013 | 276.3 | 0.00330 | CO-105 | 1,240.87 | 6.84 | CO-106 | 1,239.95 | 7.63 | 4,680 | 0.64 | 1.1 | 409,101 | 7.2 | 448,636 |
| CO-209 | 8.0 | 0.013 | 245.6 | 0.00330 | CO-106 | 1,239.85 | 7.73 | CO-107 | 1,239.04 | 8.51 | 7,800 | 0.75 | 1.9 | 409,101 | 9.2 | 448,636 |
| CO-210 | 8.0 | 0.013 | 70.7 | 0.00330 | CO-107 | 1,238.94 | 8.61 | CO-108 | 1,238.71 | 8.84 | 7,800 | 0.75 | 1.9 | 409,101 | 9.2 | 448,636 |
| CO-211 | 8.0 | 0.013 | 155.4 | 0.00330 | CO-108 | 1,238.61 | 8.94 | CO-118 | 1,238.10 | 9.67 | 10,920 | 0.83 | 2.7 | 409,101 | 10.8 | 448,636 |
| CO-212 | 8.0 | 0.013 | 202.2 | 0.00789 | CO-102 | 1,241.55 | 6.00 | CO-106 | 1,239.95 | 7.63 | 1,560 | 0.62 | 0.2 | 632,441 | 3.5 | 693,559 |
| CO-213 | 8.0 | 0.013 | 263.0 | 0.01059 | CO-101 | 1,241.50 | 6.00 | CO-108 | 1,238.71 | 8.84 | 1,560 | 0.71 | 0.2 | 732,950 | 3.2 | 803,781 |
| CO-214 | 8.0 | 0.013 | 193.8 | 0.00330 | CO-103 | 1,241.61 | 6.00 | CO-105 | 1,240.97 | 6.74 | 1,560 | 0.47 | 0.4 | 409,101 | 4.3 | 448,636 |
| CO-215 | 15.0 | 0.013 | 277.6 | 0.00140 | CO-333 | 1,224.84 | 18.80 | CO-334 | 1,224.45 | 19.50 | 638,564 | 1.87 | 44.8 | 1,424,430 | 44.5 | 1,562,085 |
| CO-216 | 15.0 | 0.013 | 449.6 | 0.00140 | CO-334 | 1,224.35 | 19.60 | CO-335 | 1,223.72 | 23.38 | 638,564 | 1.87 | 44.8 | 1,424,430 | 44.5 | 1,562,085 |
| CO-217 | 15.0 | 0.013 | 394.0 | 0.00140 | CO-335 | 1,223.62 | 23.48 | OFF-MH-12 | 1,223.07 | 24.68 | 638,564 | 1.87 | 44.8 | 1,424,430 | 44.5 | 1,562,085 |
| CO-218 | 8.0 | 0.013 | 253.2 | 0.01417 | CO-35 | 1,227.33 | 6.00 | CO-36 | 1,223.74 | 9.76 | 1,512 | 0.76 | 0.2 | 847,751 | 3.0 | 929,677 |
| CO-219 | 8.0 | 0.013 | 291.2 | 0.00330 | CO-36 | 1,223.64 | 9.86 | CO-37 | 1,222.68 | 11.29 | 16,495 | 0.95 | 4.0 | 409,101 | 13.1 | 448,636 |
| CO-220 | 8.0 | 0.013 | 280.0 | 0.00330 | CO-37 | 1,222.58 | 11.39 | CO-38 | 1,221.66 | 12.86 | 22,543 | 1.04 | 5.5 | 409,101 | 15.2 | 448,636 |
| CO-221 | 8.0 | 0.013 | 270.9 | 0.00330 | CO-38 | 1,221.56 | 12.96 | CO-39 | 1,220.67 | 14.08 | 25,065 | 1.07 | 6.1 | 409,101 | 16.1 | 448,636 |
| CO-222 | 8.0 | 0.013 | 236.5 | 0.00330 | CO-39 | 1,220.57 | 14.18 | CO-40 | 1,219.78 | 15.49 | 27,587 | 1.10 | 6.7 | 409,101 | 16.8 | 448,636 |
| CO-223 | 8.0 | 0.013 | 213.1 | 0.00330 | CO-40 | 1,219.68 | 15.59 | CO-41 | 1,218.98 | 16.51 | 30,109 | 1.13 | 7.4 | 409,101 | 17.5 | 448,636 |
| CO-224 | 8.0 | 0.013 | 320.9 | 0.00330 | CO-41 | 1,218.88 | 16.61 | CO-42 | 1,217.82 | 18.14 | 31,621 | 1.15 | 7.7 | 409,101 | 18.0 | 448,636 |
| CO-225 | 8.0 | 0.013 | 200.7 | 0.00330 | CO-42 | 1,217.72 | 18.24 | CO-43 | 1,217.06 | 19.19 | 46,753 | 1.29 | 11.4 | 409,101 | 21.8 | 448,636 |
| CO-226 | 8.0 | 0.013 | 247.9 | 0.00330 | CO-43 | 1,216.96 | 19.29 | CO-44 | 1,216.14 | 21.20 | 78,390 | 1.49 | 19.2 | 409,101 | 28.3 | 448,636 |
| CO-227 | 8.0 | 0.013 | 273.7 | 0.00330 | CO-44 | 1,216.04 | 21.30 | CO-45 | 1,215.14 | 22.73 | 78,390 | 1.49 | 19.2 | 409,101 | 28.3 | 448,636 |
| CO-228 | 8.0 | 0.013 | 208.7 | 0.00330 | CO-45 | 1,215.04 | 22.83 | CO-79 | 1,214.35 | 23.92 | 78,390 | 1.49 | 19.2 | 409,101 | 28.3 | 448,636 |
| CO-229 | 8.0 | 0.013 | 333.4 | 0.00330 | CO-79 | 1,214.25 | 24.02 | CO-154 | 1,213.15 | 25.97 | 142,912 | 1.77 | 34.9 | 409,101 | 38.8 | 448,636 |
| CO-230 | 8.0 | 0.013 | 211.2 | 0.00330 | CO-23 | 1,228.81 | 6.00 | CO-24 | 1,228.11 | 6.40 | 1,512 | 0.46 | 0.4 | 409,101 | 4.2 | 448,636 |
| CO-231 | 8.0 | 0.013 | 256.4 | 0.00330 | CO-24 | 1,228.01 | 6.50 | CO-25 | 1,227.17 | 6.82 | 3,024 | 0.56 | 0.7 | 409,101 | 5.9 | 448,636 |
| CO-232 | 8.0 | 0.013 | 163.1 | 0.02689 | CO-25 | 1,227.07 | 6.92 | CO-37 | 1,222.68 | 11.29 | 4,536 | 1.34 | 0.4 | 1,167,864 | 4.3 | 1,280,725 |
| CO-233 | 8.0 | 0.013 | 254.1 | 0.03921 | CO-22 | 1,228.95 | 6.00 | CO-41 | 1,218.98 | 16.51 | 1,512 | 1.10 | 0.1 | 1,410,101 | 2.4 | 1,546,370 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-234 | 8.0 | 0.013 | 361.1 | 0.00330 | CO-29 | 1,229.00 | 6.00 | CO-30 | 1,227.81 | 6.61 | 2,200 | 0.51 | 0.5 | 409,101 | 5.1 | 448,636 |
| CO-235 | 8.0 | 0.013 | 319.6 | 0.00330 | CO-30 | 1,227.71 | 6.71 | CO-31 | 1,226.65 | 7.20 | 4,399 | 0.63 | 1.1 | 409,101 | 7.0 | 448,636 |
| CO-236 | 8.0 | 0.013 | 219.5 | 0.00330 | CO-31 | 1,226.55 | 7.30 | CO-32 | 1,225.83 | 8.17 | 5,911 | 0.70 | 1.4 | 409,101 | 8.0 | 448,636 |
| CO-237 | 8.0 | 0.013 | 171.0 | 0.00351 | CO-32 | 1,225.73 | 8.27 | CO-33 | 1,225.13 | 8.69 | 7,423 | 0.76 | 1.8 | 422,196 | 8.8 | 462,996 |
| CO-238 | 8.0 | 0.013 | 201.2 | 0.00330 | CO-33 | 1,225.03 | 8.79 | CO-34 | 1,224.36 | 9.27 | 11,959 | 0.86 | 2.9 | 409,101 | 11.2 | 448,636 |
| CO-239 | 8.0 | 0.013 | 156.9 | 0.00330 | CO-34 | 1,224.26 | 9.37 | CO-36 | 1,223.74 | 9.76 | 13,471 | 0.89 | 3.3 | 409,101 | 11.9 | 448,636 |
| CO-240 | 8.0 | 0.013 | 111.9 | 0.00330 | CO-26 | 1,227.86 | 6.00 | CO-27 | 1,227.49 | 6.15 | 0 | 0.00 | 0.0 | 409,101 | (N/A) | 448,636 |
| CO-241 | 8.0 | 0.013 | 369.8 | 0.00330 | CO-27 | 1,227.39 | 6.25 | CO-28 | 1,226.17 | 7.37 | 1,512 | 0.46 | 0.4 | 409,101 | 4.2 | 448,636 |
| CO-242 | 8.0 | 0.013 | 287.4 | 0.00330 | CO-28 | 1,226.07 | 7.47 | CO-33 | 1,225.13 | 8.69 | 3,024 | 0.56 | 0.7 | 409,101 | 5.9 | 448,636 |
| CO-243 | 8.0 | 0.013 | 397.2 | 0.00330 | CO-16 | 1,229.16 | 6.00 | CO-17 | 1,227.85 | 7.73 | 2,522 | 0.53 | 0.6 | 409,101 | 5.4 | 448,636 |
| CO-244 | 8.0 | 0.013 | 389.5 | 0.02548 | CO-17 | 1,227.75 | 7.83 | CO-42 | 1,217.82 | 18.14 | 5,044 | 1.35 | 0.4 | 1,136,682 | 4.6 | 1,246,529 |
| CO-245 | 8.0 | 0.013 | 310.1 | 0.00330 | CO-18 | 1,230.28 | 6.00 | CO-19 | 1,229.26 | 7.22 | 2,522 | 0.53 | 0.6 | 409,101 | 5.4 | 448,636 |
| CO-246 | 8.0 | 0.013 | 339.8 | 0.00330 | CO-19 | 1,229.16 | 7.32 | CO-20 | 1,228.04 | 8.61 | 5,044 | 0.66 | 1.2 | 409,101 | 7.5 | 448,636 |
| CO-247 | 8.0 | 0.013 | 244.2 | 0.00330 | CO-20 | 1,227.94 | 8.71 | CO-21 | 1,227.13 | 9.63 | 7,566 | 0.75 | 1.8 | 409,101 | 9.0 | 448,636 |
| CO-248 | 8.0 | 0.013 | 312.8 | 0.02944 | CO-21 | 1,227.03 | 9.73 | CO-42 | 1,217.82 | 18.14 | 10,088 | 1.74 | 0.8 | 1,221,911 | 6.2 | 1,339,995 |
| CO-249 | 8.0 | 0.013 | 220.3 | 0.00330 | CO-9 | 1,230.76 | 6.00 | CO-10 | 1,230.03 | 6.52 | 2,200 | 0.51 | 0.5 | 409,101 | 5.1 | 448,636 |
| CO-250 | 8.0 | 0.013 | 293.2 | 0.00330 | CO-10 | 1,229.93 | 6.62 | CO-11 | 1,228.96 | 6.96 | 4,399 | 0.63 | 1.1 | 409,101 | 7.0 | 448,636 |
| CO-251 | 8.0 | 0.013 | 351.6 | 0.00330 | CO-11 | 1,228.86 | 7.06 | CO-12 | 1,227.70 | 7.41 | 6,599 | 0.72 | 1.6 | 409,101 | 8.5 | 448,636 |
| CO-252 | 8.0 | 0.013 | 313.4 | 0.00330 | CO-12 | 1,227.60 | 7.51 | CO-13 | 1,226.57 | 8.29 | 8,798 | 0.78 | 2.2 | 409,101 | 9.7 | 448,636 |
| CO-253 | 8.0 | 0.013 | 286.6 | 0.00330 | CO-13 | 1,226.47 | 8.39 | CO-14 | 1,225.52 | 10.37 | 10,998 | 0.84 | 2.7 | 409,101 | 10.8 | 448,636 |
| CO-254 | 8.0 | 0.013 | 319.3 | 0.00330 | CO-14 | 1,225.42 | 10.47 | CO-15 | 1,224.37 | 12.33 | 17,597 | 0.96 | 4.3 | 409,101 | 13.5 | 448,636 |
| CO-255 | 8.0 | 0.013 | 198.2 | 0.03635 | CO-15 | 1,224.27 | 12.43 | CO-43 | 1,217.06 | 19.19 | 31,637 | 2.66 | 2.3 | 1,357,852 | 10.1 | 1,489,073 |
| CO-256 | 8.0 | 0.013 | 315.8 | 0.00330 | CO-6 | 1,231.28 | 6.00 | CO-7 | 1,230.23 | 6.49 | 2,200 | 0.51 | 0.5 | 409,101 | 5.1 | 448,636 |
| CO-257 | 8.0 | 0.013 | 363.6 | 0.00330 | CO-7 | 1,230.13 | 6.59 | CO-8 | 1,228.93 | 6.68 | 4,399 | 0.63 | 1.1 | 409,101 | 7.0 | 448,636 |
| CO-258 | 8.0 | 0.013 | 300.6 | 0.01103 | CO-8 | 1,228.83 | 6.78 | CO-14 | 1,225.52 | 10.37 | 6,599 | 1.09 | 0.9 | 747,800 | 6.4 | 820,066 |
| CO-259 | 8.0 | 0.013 | 468.7 | 0.00330 | CO-1 | 1,231.76 | 6.00 | CO-2 | 1,230.21 | 6.95 | 2,808 | 0.55 | 0.7 | 409,101 | 5.7 | 448,636 |
| CO-260 | 8.0 | 0.013 | 437.6 | 0.01312 | CO-2 | 1,230.11 | 7.05 | CO-15 | 1,224.37 | 12.33 | 5,616 | 1.10 | 0.7 | 815,701 | 5.7 | 894,529 |
| CO-261 | 8.0 | 0.013 | 365.9 | 0.00330 | CO-3 | 1,232.59 | 6.00 | CO-4 | 1,231.38 | 6.58 | 2,808 | 0.55 | 0.7 | 409,101 | 5.7 | 448,636 |
| CO-262 | 8.0 | 0.013 | 379.3 | 0.00330 | CO-4 | 1,231.28 | 6.68 | CO-5 | 1,230.03 | 7.34 | 5,616 | 0.69 | 1.4 | 409,101 | 7.8 | 448,636 |
| CO-263 | 8.0 | 0.013 | 315.2 | 0.01766 | CO-5 | 1,229.93 | 7.44 | CO-15 | 1,224.37 | 12.33 | 8,424 | 1.38 | 0.9 | 946,384 | 6.4 | 1,037,841 |
| CO-264 | 8.0 | 0.013 | 330.6 | 0.00330 | CO-91 | 1,240.79 | 6.00 | CO-92 | 1,239.70 | 6.78 | 2,184 | 0.51 | 0.5 | 409,101 | 5.0 | 448,636 |
| CO-265 | 8.0 | 0.013 | 260.6 | 0.00330 | CO-92 | 1,239.60 | 6.88 | CO-93 | 1,238.74 | 7.08 | 4,368 | 0.63 | 1.1 | 409,101 | 7.0 | 448,636 |
| CO-266 | 8.0 | 0.013 | 281.8 | 0.00330 | CO-93 | 1,238.64 | 7.18 | CO-96 | 1,237.71 | 7.60 | 6,552 | 0.72 | 1.6 | 409,101 | 8.4 | 448,636 |
| CO-267 | 8.0 | 0.013 | 196.4 | 0.00449 | CO-96 | 1,237.61 | 7.70 | CO-100 | 1,236.73 | 7.94 | 13,104 | 0.98 | 2.7 | 477,032 | 10.9 | 523,132 |
| CO-268 | 8.0 | 0.013 | 198.8 | 0.01752 | CO-100 | 1,236.63 | 8.04 | CO-123 | 1,233.15 | 11.29 | 19,656 | 1.80 | 2.1 | 942,561 | 9.5 | 1,033,649 |
| CO-269 | 8.0 | 0.013 | 316.6 | 0.00330 | CO-94 | 1,240.52 | 6.00 | CO-95 | 1,239.48 | 6.15 | 2,184 | 0.51 | 0.5 | 409,101 | 5.0 | 448,636 |
| CO-270 | 8.0 | 0.013 | 223.3 | 0.00744 | CO-95 | 1,239.38 | 6.25 | CO-96 | 1,237.71 | 7.60 | 4,368 | 0.84 | 0.7 | 614,424 | 5.8 | 673,800 |
| CO-271 | 8.0 | 0.013 | 343.3 | 0.00330 | CO-97 | 1,240.17 | 6.00 | CO-98 | 1,239.04 | 6.69 | 2,184 | 0.51 | 0.5 | 409,101 | 5.0 | 448,636 |
| CO-272 | 8.0 | 0.013 | 481.7 | 0.00330 | CO-98 | 1,238.94 | 6.79 | CO-99 | 1,237.35 | 7.30 | 4,368 | 0.63 | 1.1 | 409,101 | 7.0 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-273 | 8.0 | 0.013 | 157.5 | 0.00330 | CO-99 | 1,237.25 | 7.40 | CO-100 | 1,236.73 | 7.94 | 6,552 | 0.72 | 1.6 | 409,101 | 8.4 | 448,636 |
| CO-274 | 8.0 | 0.013 | 257.6 | 0.00330 | CO-77 | 1,216.97 | 20.51 | CO-78 | 1,216.12 | 22.18 | 64,522 | 1.41 | 15.8 | 409,101 | 25.6 | 448,636 |
| CO-275 | 8.0 | 0.013 | 324.7 | 0.00330 | CO-77 | 1,217.07 | 20.41 | CO-76 | 1,218.14 | 19.14 | 59,708 | 1.38 | 14.6 | 409,101 | 24.6 | 448,636 |
| CO-276 | 8.0 | 0.013 | 300.5 | 0.00330 | CO-76 | 1,218.24 | 19.04 | CO-75 | 1,219.23 | 17.76 | 57,301 | 1.36 | 14.0 | 409,101 | 24.2 | 448,636 |
| CO-277 | 8.0 | 0.013 | 259.5 | 0.00330 | CO-75 | 1,219.33 | 17.66 | CO-74 | 1,220.19 | 16.64 | 54,894 | 1.35 | 13.4 | 409,101 | 23.6 | 448,636 |
| CO-278 | 8.0 | 0.013 | 266.9 | 0.00330 | CO-74 | 1,220.29 | 16.54 | CO-73 | 1,221.17 | 16.05 | 52,487 | 1.33 | 12.8 | 409,101 | 23.1 | 448,636 |
| CO-279 | 8.0 | 0.013 | 222.8 | 0.00330 | CO-72 | 1,222.00 | 15.40 | CO-73 | 1,221.27 | 15.95 | 50,080 | 1.31 | 12.2 | 409,101 | 22.6 | 448,636 |
| CO-280 | 8.0 | 0.013 | 285.0 | 0.00330 | CO-72 | 1,222.10 | 15.30 | CO-71 | 1,223.04 | 14.66 | 45,267 | 1.28 | 11.1 | 409,101 | 21.4 | 448,636 |
| CO-281 | 8.0 | 0.013 | 372.5 | 0.00330 | CO-71 | 1,223.14 | 14.56 | CO-70 | 1,224.37 | 13.65 | 40,453 | 1.23 | 9.9 | 409,101 | 20.3 | 448,636 |
| CO-282 | 8.0 | 0.013 | 182.0 | 0.00330 | CO-70 | 1,224.47 | 13.55 | CO-69 | 1,225.07 | 13.48 | 35,639 | 1.19 | 8.7 | 409,101 | 19.0 | 448,636 |
| CO-283 | 8.0 | 0.013 | 220.0 | 0.00330 | CO-48 | 1,232.64 | 6.00 | CO-49 | 1,231.91 | 6.27 | 2,407 | 0.53 | 0.6 | 409,101 | 5.3 | 448,636 |
| CO-284 | 8.0 | 0.013 | 245.3 | 0.03532 | CO-49 | 1,231.81 | 6.37 | CO-71 | 1,223.14 | 14.56 | 2,407 | 1.20 | 0.2 | 1,338,401 | 3.0 | 1,467,742 |
| CO-285 | 8.0 | 0.013 | 260.1 | 0.00330 | CO-46 | 1,232.24 | 6.00 | CO-47 | 1,231.38 | 6.36 | 2,407 | 0.53 | 0.6 | 409,101 | 5.3 | 448,636 |
| CO-286 | 8.0 | 0.013 | 183.4 | 0.05004 | CO-47 | 1,231.28 | 6.46 | CO-72 | 1,222.10 | 15.30 | 2,407 | 1.36 | 0.2 | 1,593,000 | 2.8 | 1,746,945 |
| CO-287 | 8.0 | 0.013 | 208.3 | 0.00330 | CO-52 | 1,233.72 | 6.58 | CO-53 | 1,233.03 | 6.68 | 4,778 | 0.65 | 1.2 | 409,101 | 7.3 | 448,636 |
| CO-288 | 8.0 | 0.013 | 267.2 | 0.00695 | CO-53 | 1,232.93 | 6.78 | CO-54 | 1,231.07 | 7.81 | 7,185 | 0.95 | 1.2 | 593,679 | 7.4 | 651,051 |
| CO-289 | 8.0 | 0.013 | 73.0 | 0.06980 | CO-54 | 1,230.97 | 7.91 | CO-68 | 1,225.88 | 12.97 | 7,185 | 2.15 | 0.4 | 1,881,488 | 4.3 | 2,063,312 |
| CO-290 | 8.0 | 0.013 | 182.2 | 0.00330 | CO-68 | 1,225.78 | 13.07 | CO-69 | 1,225.17 | 13.38 | 35,639 | 1.19 | 8.7 | 409,101 | 19.0 | 448,636 |
| CO-291 | 8.0 | 0.013 | 434.6 | 0.00332 | CO-64 | 1,235.65 | 6.00 | CO-65 | 1,234.21 | 6.00 | 2,371 | 0.53 | 0.6 | 410,233 | 5.2 | 449,877 |
| CO-292 | 8.0 | 0.013 | 269.0 | 0.00330 | CO-65 | 1,234.11 | 6.10 | CO-66 | 1,233.22 | 6.60 | 4,742 | 0.65 | 1.2 | 409,101 | 7.3 | 448,636 |
| CO-293 | 8.0 | 0.013 | 147.7 | 0.04331 | CO-66 | 1,233.12 | 6.70 | CO-67 | 1,226.73 | 12.59 | 9,485 | 1.96 | 0.6 | 1,482,014 | 5.5 | 1,625,234 |
| CO-294 | 8.0 | 0.013 | 228.3 | 0.00330 | CO-67 | 1,226.63 | 12.69 | CO-68 | 1,225.88 | 12.97 | 28,454 | 1.11 | 7.0 | 409,101 | 17.1 | 448,636 |
| CO-295 | 8.0 | 0.013 | 451.9 | 0.00330 | CO-51 | 1,235.31 | 6.00 | CO-52 | 1,233.82 | 6.48 | 2,371 | 0.53 | 0.6 | 409,101 | 5.2 | 448,636 |
| CO-296 | 8.0 | 0.013 | 340.3 | 0.00434 | CO-63 | 1,234.70 | 6.00 | CO-66 | 1,233.22 | 6.60 | 2,371 | 0.58 | 0.5 | 468,993 | 4.9 | 514,316 |
| CO-297 | 10.0 | 0.013 | 406.6 | 0.00240 | CO-148 | 1,230.58 | 10.09 | CO-149 | 1,229.61 | 12.20 | 199,001 | 1.70 | 31.5 | 632,566 | 36.7 | 693,696 |
| CO-298 | 10.0 | 0.013 | 435.1 | 0.00240 | CO-149 | 1,229.51 | 12.30 | CO-150 | 1,228.46 | 14.94 | 201,372 | 1.71 | 31.8 | 632,566 | 36.9 | 693,696 |
| CO-299 | 8.0 | 0.013 | 357.3 | 0.00330 | CO-55 | 1,234.12 | 6.00 | CO-56 | 1,232.94 | 6.72 | 2,371 | 0.53 | 0.6 | 409,101 | 5.2 | 448,636 |
| CO-300 | 8.0 | 0.013 | 300.2 | 0.00330 | CO-56 | 1,232.84 | 6.82 | CO-57 | 1,231.85 | 7.46 | 4,742 | 0.65 | 1.2 | 409,101 | 7.3 | 448,636 |
| CO-301 | 8.0 | 0.013 | 271.3 | 0.00330 | CO-57 | 1,231.75 | 7.56 | CO-60 | 1,230.85 | 7.96 | 7,114 | 0.74 | 1.7 | 409,101 | 8.8 | 448,636 |
| CO-302 | 8.0 | 0.013 | 273.0 | 0.00330 | CO-60 | 1,230.75 | 8.06 | CO-61 | 1,229.85 | 8.43 | 14,227 | 0.91 | 3.5 | 409,101 | 12.2 | 448,636 |
| CO-303 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-61 | 1,229.75 | 8.53 | CO-62 | 1,228.10 | 10.59 | 16,598 | 0.95 | 4.1 | 409,101 | 13.1 | 448,636 |
| CO-304 | 8.0 | 0.013 | 386.5 | 0.00330 | CO-62 | 1,228.00 | 10.69 | CO-67 | 1,226.73 | 12.59 | 18,970 | 0.99 | 4.6 | 409,101 | 14.0 | 448,636 |
| CO-305 | 8.0 | 0.013 | 300.0 | 0.00330 | CO-58 | 1,233.76 | 6.00 | CO-59 | 1,232.77 | 6.57 | 2,371 | 0.53 | 0.6 | 409,101 | 5.2 | 448,636 |
| CO-306 | 8.0 | 0.013 | 354.2 | 0.00513 | CO-59 | 1,232.67 | 6.67 | CO-60 | 1,230.85 | 7.96 | 4,742 | 0.75 | 0.9 | 509,892 | 6.6 | 559,168 |
| CO-307 | 10.0 | 0.013 | 202.3 | 0.00240 | CO-147 | 1,231.17 | 9.96 | CO-148 | 1,230.68 | 9.99 | 196,630 | 1.69 | 31.1 | 632,566 | 36.5 | 693,696 |
| CO-308 | 8.0 | 0.013 | 343.4 | 0.00330 | CO-143 | 1,239.40 | 6.00 | CO-144 | 1,238.27 | 6.32 | 29,016 | 1.12 | 7.1 | 409,101 | 17.2 | 448,636 |
| CO-309 | 8.0 | 0.013 | 307.9 | 0.01660 | CO-144 | 1,238.17 | 6.42 | CO-145 | 1,233.05 | 10.11 | 58,032 | 2.42 | 6.3 | 917,656 | 16.3 | 1,006,337 |
| CO-310 | 8.0 | 0.013 | 368.0 | 0.00403 | CO-142 | 1,234.54 | 7.70 | CO-145 | 1,233.05 | 10.11 | 29,718 | 1.21 | 6.6 | 451,980 | 16.6 | 495,659 |
| CO-311 | 8.0 | 0.013 | 299.1 | 0.00330 | CO-141 | 1,235.62 | 6.00 | CO-142 | 1,234.64 | 7.60 | 14,859 | 0.92 | 3.6 | 409,101 | 12.5 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|-----------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-312 | 10.0 | 0.013 | 269.0 | 0.00240 | CO-145 | 1,232.79 | 10.21 | CO-146 | 1,232.14 | 9.76 | 196,630 | 1.69 | 31.1 | 632,566 | 36.5 | 693,696 |
| CO-313 | 10.0 | 0.013 | 322.3 | 0.00240 | CO-146 | 1,232.04 | 9.86 | CO-147 | 1,231.27 | 9.86 | 196,630 | 1.69 | 31.1 | 632,566 | 36.5 | 693,696 |
| CO-314 | 8.0 | 0.013 | 442.8 | 0.00330 | CO-133 | 1,243.43 | 6.00 | CO-134 | 1,241.97 | 6.02 | 11,895 | 0.86 | 2.9 | 409,101 | 11.2 | 448,636 |
| CO-315 | 8.0 | 0.013 | 331.7 | 0.00338 | CO-136 | 1,239.79 | 6.10 | CO-137 | 1,238.67 | 6.00 | 47,580 | 1.31 | 11.5 | 414,121 | 21.9 | 454,141 |
| CO-316 | 8.0 | 0.013 | 109.2 | 0.00342 | CO-137 | 1,238.57 | 6.10 | CO-139 | 1,238.20 | 6.00 | 59,475 | 1.40 | 14.3 | 416,682 | 24.4 | 456,949 |
| CO-317 | 8.0 | 0.013 | 65.9 | 0.06270 | CO-139 | 1,238.10 | 6.10 | CO-140 | 1,233.96 | 10.02 | 71,370 | 4.12 | 4.0 | 1,783,181 | 13.1 | 1,955,504 |
| CO-318 | 8.0 | 0.013 | 274.1 | 0.00330 | CO-134 | 1,241.87 | 6.12 | CO-135 | 1,240.96 | 6.01 | 23,790 | 1.05 | 5.8 | 409,101 | 15.6 | 448,636 |
| CO-319 | 8.0 | 0.013 | 265.9 | 0.00364 | CO-135 | 1,240.86 | 6.11 | CO-136 | 1,239.89 | 6.00 | 35,685 | 1.23 | 8.3 | 429,662 | 18.6 | 471,184 |
| CO-320 | 8.0 | 0.013 | 305.3 | 0.00330 | CO-126 | 1,241.69 | 6.00 | CO-127 | 1,240.69 | 6.97 | 5,359 | 0.67 | 1.3 | 409,101 | 7.7 | 448,636 |
| CO-321 | 8.0 | 0.013 | 547.3 | 0.00330 | CO-127 | 1,240.59 | 7.07 | CO-128 | 1,238.78 | 6.08 | 10,717 | 0.83 | 2.6 | 409,101 | 10.7 | 448,636 |
| CO-322 | 8.0 | 0.013 | 258.5 | 0.00330 | CO-128 | 1,238.68 | 6.18 | CO-129 | 1,237.83 | 6.28 | 16,076 | 0.94 | 3.9 | 409,101 | 12.9 | 448,636 |
| CO-323 | 8.0 | 0.013 | 371.7 | 0.00330 | CO-129 | 1,237.73 | 6.38 | CO-130 | 1,236.50 | 6.34 | 21,434 | 1.02 | 5.2 | 409,101 | 14.9 | 448,636 |
| CO-324 | 8.0 | 0.013 | 236.8 | 0.00330 | CO-130 | 1,236.40 | 6.44 | CO-131 | 1,235.62 | 7.37 | 26,793 | 1.09 | 6.5 | 409,101 | 16.6 | 448,636 |
| CO-325 | 8.0 | 0.013 | 262.6 | 0.00330 | CO-131 | 1,235.52 | 7.47 | CO-132 | 1,234.65 | 8.88 | 32,151 | 1.15 | 7.9 | 409,101 | 18.1 | 448,636 |
| CO-326 | 8.0 | 0.013 | 178.2 | 0.00330 | CO-132 | 1,234.55 | 8.98 | CO-140 | 1,233.96 | 10.02 | 37,510 | 1.21 | 9.2 | 409,101 | 19.6 | 448,636 |
| CO-327 | 8.0 | 0.013 | 245.2 | 0.00330 | CO-140 | 1,233.86 | 10.12 | CO-145 | 1,233.05 | 10.11 | 108,880 | 1.64 | 26.6 | 409,101 | 33.5 | 448,636 |
| CO-328 | 8.0 | 0.013 | 442.3 | 0.00515 | CO-139 | 1,238.20 | 6.00 | CO-138 | 1,240.48 | 6.00 | 11,895 | 1.00 | 2.3 | 511,190 | 10.1 | 560,591 |
| CO-329 | 8.0 | 0.013 | 125.3 | 0.04763 | CO-228 | 1,235.29 | 7.31 | CO-229 | 1,229.32 | 13.31 | 7,283 | 1.85 | 0.5 | 1,554,168 | 4.8 | 1,704,360 |
| CO-330 | 8.0 | 0.013 | 55.8 | 0.00330 | CO-230 | 1,228.16 | 13.91 | CO-231 | 1,227.98 | 13.97 | 41,696 | 1.24 | 10.2 | 409,101 | 20.6 | 448,636 |
| CO-331 | 8.0 | 0.013 | 227.6 | 0.00330 | CO-231 | 1,227.88 | 14.07 | CO-232 | 1,227.13 | 13.85 | 41,696 | 1.24 | 10.2 | 409,101 | 20.6 | 448,636 |
| CO-332 | 8.0 | 0.013 | 139.2 | 0.00330 | CO-217 | 1,232.60 | 10.93 | CO-218 | 1,232.14 | 11.02 | 22,479 | 1.04 | 5.5 | 409,101 | 15.2 | 448,636 |
| CO-333 | 8.0 | 0.013 | 387.6 | 0.00330 | CO-194 | 1,223.23 | 19.81 | CO-195 | 1,221.96 | 22.06 | 50,076 | 1.31 | 12.2 | 409,101 | 22.6 | 448,636 |
| CO-334 | 8.0 | 0.013 | 124.4 | 0.01341 | CO-78 | 1,216.02 | 22.28 | CO-79 | 1,214.35 | 23.92 | 64,522 | 2.32 | 7.8 | 824,640 | 18.1 | 904,332 |
| CO-335 | 8.0 | 0.013 | 342.0 | 0.02378 | CO-50 | 1,232.61 | 6.00 | CO-70 | 1,224.47 | 13.55 | 2,407 | 1.06 | 0.2 | 1,098,272 | 3.3 | 1,204,407 |
| OFF-CO-1 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-1 | 1,210.42 | 19.58 | O-1 | 1,210.00 | 16.27 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-2 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-2 | 1,210.94 | 20.06 | OFF-MH-1 | 1,210.52 | 19.48 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-3 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-3 | 1,211.46 | 18.54 | OFF-MH-2 | 1,211.04 | 19.96 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-4 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-4 | 1,211.98 | 21.02 | OFF-MH-3 | 1,211.56 | 18.44 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-5 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-5 | 1,212.50 | 21.50 | OFF-MH-4 | 1,212.08 | 20.92 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-6 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-6 | 1,213.02 | 22.98 | OFF-MH-5 | 1,212.60 | 21.40 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-7 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-7 | 1,213.54 | 23.46 | OFF-MH-6 | 1,213.12 | 22.88 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-8 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-8 | 1,214.06 | 23.94 | OFF-MH-7 | 1,213.64 | 23.36 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-9 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-9 | 1,214.58 | 27.42 | OFF-MH-8 | 1,214.16 | 23.84 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-10 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-10 | 1,215.10 | 30.56 | OFF-MH-9 | 1,214.68 | 27.32 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-11 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-11 | 1,215.62 | 28.36 | OFF-MH-10 | 1,215.20 | 30.46 | 5,594,138 | 2.48 | 53.8 | 10,399,747 | 49.4 | 11,404,761 |
| OFF-CO-12 | 36.0 | 0.013 | 353.8 | 0.00754 | OFF-MH-11 | 1,218.39 | 26.28 | OFF-MH-11 | 1,215.72 | 28.26 | 5,515,748 | 5.86 | 16.2 | 34,131,819 | 25.9 | 37,430,261 |
| OFF-CO-13 | 36.0 | 0.013 | 488.5 | 0.00559 | OFF-MH-12 | 1,221.22 | 24.78 | OFF-MH-11 | 1,218.49 | 26.18 | 5,515,748 | 5.27 | 18.8 | 29,398,026 | 28.0 | 32,239,002 |
| OFF-CO-13 | 36.0 | 0.013 | 600.0 | 0.00754 | OFF-MH-13 | 1,225.85 | 23.31 | OFF-MH-12 | 1,221.32 | 24.68 | 4,877,184 | 5.66 | 14.3 | 34,131,819 | 24.4 | 37,430,261 |
| OFF-CO-14 | 36.0 | 0.013 | 600.0 | 0.00754 | OFF-MH-14 | 1,230.47 | 19.70 | OFF-MH-13 | 1,225.95 | 23.21 | 4,877,184 | 5.66 | 14.3 | 34,131,819 | 24.4 | 37,430,261 |

| Label | Diam (in) | Manning's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|-----------|-----------|-------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| OFF-CO-15 | 36.0 | 0.013 | 374.5 | 0.00754 | OFF-MH-15 | 1,233.39 | 16.96 | OFF-MH-14 | 1,230.57 | 19.60 | 4,877,184 | 5.66 | 14.3 | 34,131,819 | 24.4 | 37,430,261 |
| OFF-CO-16 | 30.0 | 0.013 | 577.5 | 0.00945 | OFF-MH-16 | 1,239.45 | 12.70 | OFF-MH-15 | 1,233.99 | 16.86 | 4,877,184 | 6.24 | 20.8 | 23,498,475 | 29.5 | 25,769,328 |
| OFF-CO-17 | 30.0 | 0.013 | 499.6 | 0.00945 | OFF-MH-17 | 1,244.27 | 10.04 | OFF-MH-16 | 1,239.55 | 12.60 | 4,877,184 | 6.24 | 20.8 | 23,498,475 | 29.5 | 25,769,328 |
| OFF-CO-18 | 30.0 | 0.013 | 600.0 | 0.00941 | OFF-MH-18 | 1,250.02 | 6.10 | OFF-MH-17 | 1,244.37 | 9.94 | 4,877,184 | 6.23 | 20.8 | 23,447,495 | 29.5 | 25,713,421 |
| OFF-CO-19 | 30.0 | 0.013 | 600.0 | 0.00347 | OFF-MH-19 | 1,252.20 | 6.00 | OFF-MH-18 | 1,250.12 | 6.00 | 4,877,184 | 4.35 | 34.2 | 14,248,583 | 38.4 | 15,625,542 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|-------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-1 | 1,238.42 | 1,231.76 | 6.67 | 2,808 | 1,231.79 | 1,231.79 |
| CO-2 | 1,237.83 | 1,230.11 | 7.72 | 5,616 | 1,230.15 | 1,230.15 |
| CO-3 | 1,239.26 | 1,232.59 | 6.67 | 2,808 | 1,232.63 | 1,232.63 |
| CO-4 | 1,238.63 | 1,231.28 | 7.35 | 5,616 | 1,231.34 | 1,231.34 |
| CO-5 | 1,238.04 | 1,229.93 | 8.10 | 8,424 | 1,229.98 | 1,229.98 |
| CO-6 | 1,237.94 | 1,231.28 | 6.67 | 2,200 | 1,231.31 | 1,231.31 |
| CO-7 | 1,237.39 | 1,230.13 | 7.26 | 4,399 | 1,230.18 | 1,230.18 |
| CO-8 | 1,236.28 | 1,228.83 | 7.45 | 6,599 | 1,228.88 | 1,228.88 |
| CO-9 | 1,237.42 | 1,230.76 | 6.67 | 2,200 | 1,230.79 | 1,230.79 |
| CO-10 | 1,237.21 | 1,229.93 | 7.28 | 4,399 | 1,229.98 | 1,229.98 |
| CO-11 | 1,236.59 | 1,228.86 | 7.73 | 6,599 | 1,228.92 | 1,228.92 |
| CO-12 | 1,235.78 | 1,227.60 | 8.18 | 8,798 | 1,227.67 | 1,227.67 |
| CO-13 | 1,235.52 | 1,226.47 | 9.05 | 10,998 | 1,226.54 | 1,226.54 |
| CO-14 | 1,236.55 | 1,225.42 | 11.13 | 17,597 | 1,225.51 | 1,225.51 |
| CO-15 | 1,237.36 | 1,224.27 | 13.10 | 31,637 | 1,224.37 | 1,224.37 |
| CO-16 | 1,235.82 | 1,229.16 | 6.67 | 2,522 | 1,229.19 | 1,229.19 |
| CO-17 | 1,236.25 | 1,227.75 | 8.50 | 5,044 | 1,227.79 | 1,227.79 |
| CO-18 | 1,236.95 | 1,230.28 | 6.67 | 2,522 | 1,230.32 | 1,230.32 |
| CO-19 | 1,237.15 | 1,229.16 | 7.99 | 5,044 | 1,229.21 | 1,229.21 |
| CO-20 | 1,237.31 | 1,227.94 | 9.38 | 7,566 | 1,228.00 | 1,228.00 |
| CO-21 | 1,237.43 | 1,227.03 | 10.39 | 10,088 | 1,227.09 | 1,227.09 |
| CO-22 | 1,235.61 | 1,228.95 | 6.67 | 1,512 | 1,228.97 | 1,228.97 |
| CO-23 | 1,235.48 | 1,228.81 | 6.67 | 1,512 | 1,228.84 | 1,228.84 |
| CO-24 | 1,235.18 | 1,228.01 | 7.17 | 3,024 | 1,228.05 | 1,228.05 |
| CO-25 | 1,234.65 | 1,227.07 | 7.58 | 4,536 | 1,227.11 | 1,227.11 |
| CO-26 | 1,234.53 | 1,227.86 | 6.67 | 0 | 1,227.86 | 1,227.86 |
| CO-27 | 1,234.31 | 1,227.39 | 6.92 | 1,512 | 1,227.42 | 1,227.42 |
| CO-28 | 1,234.21 | 1,226.07 | 8.14 | 3,024 | 1,226.11 | 1,226.11 |
| CO-29 | 1,235.66 | 1,229.00 | 6.67 | 2,200 | 1,229.03 | 1,229.03 |
| CO-30 | 1,235.08 | 1,227.71 | 7.38 | 4,399 | 1,227.75 | 1,227.75 |
| CO-31 | 1,234.51 | 1,226.55 | 7.96 | 5,911 | 1,226.60 | 1,226.60 |
| CO-32 | 1,234.67 | 1,225.73 | 8.94 | 7,423 | 1,225.79 | 1,225.79 |
| CO-33 | 1,234.49 | 1,225.03 | 9.46 | 11,959 | 1,225.10 | 1,225.10 |
| CO-34 | 1,234.30 | 1,224.26 | 10.03 | 13,471 | 1,224.34 | 1,224.34 |
| CO-35 | 1,234.00 | 1,227.33 | 6.67 | 1,512 | 1,227.35 | 1,227.35 |
| CO-36 | 1,234.17 | 1,223.64 | 10.52 | 16,495 | 1,223.73 | 1,223.73 |
| CO-37 | 1,234.64 | 1,222.58 | 12.06 | 22,543 | 1,222.68 | 1,222.68 |
| CO-38 | 1,235.18 | 1,221.56 | 13.63 | 25,065 | 1,221.67 | 1,221.67 |
| CO-39 | 1,235.41 | 1,220.57 | 14.84 | 27,587 | 1,220.68 | 1,220.68 |
| CO-40 | 1,235.94 | 1,219.68 | 16.25 | 30,109 | 1,219.80 | 1,219.80 |
| CO-41 | 1,236.16 | 1,218.88 | 17.28 | 31,621 | 1,219.00 | 1,219.00 |
| CO-42 | 1,236.63 | 1,217.72 | 18.91 | 46,753 | 1,217.87 | 1,217.87 |
| CO-43 | 1,236.91 | 1,216.96 | 19.95 | 78,390 | 1,217.15 | 1,217.15 |
| CO-44 | 1,238.00 | 1,216.04 | 21.96 | 78,390 | 1,216.23 | 1,216.23 |
| CO-45 | 1,238.53 | 1,215.04 | 23.49 | 78,390 | 1,215.23 | 1,215.23 |
| CO-46 | 1,238.90 | 1,232.24 | 6.67 | 2,407 | 1,232.27 | 1,232.27 |
| CO-47 | 1,238.41 | 1,231.28 | 7.13 | 2,407 | 1,231.31 | 1,231.31 |
| CO-48 | 1,239.30 | 1,232.64 | 6.67 | 2,407 | 1,232.67 | 1,232.67 |
| CO-49 | 1,238.85 | 1,231.81 | 7.04 | 2,407 | 1,231.84 | 1,231.84 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|-------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-50 | 1,239.27 | 1,232.61 | 6.67 | 2,407 | 1,232.63 | 1,232.63 |
| CO-51 | 1,241.97 | 1,235.31 | 6.67 | 2,371 | 1,235.34 | 1,235.34 |
| CO-52 | 1,240.96 | 1,233.72 | 7.25 | 4,778 | 1,233.76 | 1,233.76 |
| CO-53 | 1,240.38 | 1,232.93 | 7.45 | 7,185 | 1,232.98 | 1,232.98 |
| CO-54 | 1,239.55 | 1,230.97 | 8.58 | 7,185 | 1,231.02 | 1,231.02 |
| CO-55 | 1,240.79 | 1,234.12 | 6.67 | 2,371 | 1,234.15 | 1,234.15 |
| CO-56 | 1,240.33 | 1,232.84 | 7.48 | 4,742 | 1,232.89 | 1,232.89 |
| CO-57 | 1,239.98 | 1,231.75 | 8.23 | 7,114 | 1,231.81 | 1,231.81 |
| CO-58 | 1,240.43 | 1,233.76 | 6.67 | 2,371 | 1,233.80 | 1,233.80 |
| CO-59 | 1,240.01 | 1,232.67 | 7.34 | 4,742 | 1,232.71 | 1,232.71 |
| CO-60 | 1,239.48 | 1,230.75 | 8.73 | 14,227 | 1,230.84 | 1,230.84 |
| CO-61 | 1,238.95 | 1,229.75 | 9.20 | 16,598 | 1,229.84 | 1,229.84 |
| CO-62 | 1,239.37 | 1,228.00 | 11.36 | 18,970 | 1,228.10 | 1,228.10 |
| CO-63 | 1,241.37 | 1,234.70 | 6.67 | 2,371 | 1,234.73 | 1,234.73 |
| CO-64 | 1,242.32 | 1,235.65 | 6.67 | 2,371 | 1,235.69 | 1,235.69 |
| CO-65 | 1,240.88 | 1,234.11 | 6.77 | 4,742 | 1,234.16 | 1,234.16 |
| CO-66 | 1,240.49 | 1,233.12 | 7.37 | 9,485 | 1,233.18 | 1,233.18 |
| CO-67 | 1,239.99 | 1,226.63 | 13.36 | 28,454 | 1,226.74 | 1,226.74 |
| CO-68 | 1,239.51 | 1,225.78 | 13.74 | 35,639 | 1,225.90 | 1,225.90 |
| CO-69 | 1,239.22 | 1,225.07 | 14.14 | 35,639 | 1,225.20 | 1,225.20 |
| CO-70 | 1,238.69 | 1,224.37 | 14.31 | 40,453 | 1,224.51 | 1,224.51 |
| CO-71 | 1,238.37 | 1,223.04 | 15.33 | 45,267 | 1,223.19 | 1,223.19 |
| CO-72 | 1,238.07 | 1,222.00 | 16.07 | 50,080 | 1,222.15 | 1,222.15 |
| CO-73 | 1,237.89 | 1,221.17 | 16.72 | 52,487 | 1,221.32 | 1,221.32 |
| CO-74 | 1,237.49 | 1,220.19 | 17.31 | 54,894 | 1,220.35 | 1,220.35 |
| CO-75 | 1,237.66 | 1,219.23 | 18.42 | 57,301 | 1,219.39 | 1,219.39 |
| CO-76 | 1,237.95 | 1,218.14 | 19.81 | 59,708 | 1,218.30 | 1,218.30 |
| CO-77 | 1,238.14 | 1,216.97 | 21.18 | 64,522 | 1,217.14 | 1,217.14 |
| CO-78 | 1,238.97 | 1,216.02 | 22.95 | 64,522 | 1,216.16 | 1,216.16 |
| CO-79 | 1,238.94 | 1,214.25 | 24.69 | 142,912 | 1,214.51 | 1,214.51 |
| CO-80 | 1,245.50 | 1,238.84 | 6.67 | 1,969 | 1,238.87 | 1,238.87 |
| CO-81 | 1,244.26 | 1,237.19 | 7.07 | 3,939 | 1,237.24 | 1,237.24 |
| CO-82 | 1,244.18 | 1,236.56 | 7.62 | 5,908 | 1,236.60 | 1,236.60 |
| CO-83 | 1,242.68 | 1,236.01 | 6.67 | 1,969 | 1,236.04 | 1,236.04 |
| CO-84 | 1,242.09 | 1,234.45 | 7.64 | 3,939 | 1,234.50 | 1,234.50 |
| CO-85 | 1,242.69 | 1,233.73 | 8.96 | 11,817 | 1,233.80 | 1,233.80 |
| CO-86 | 1,241.31 | 1,234.65 | 6.67 | 1,969 | 1,234.68 | 1,234.68 |
| CO-87 | 1,243.21 | 1,236.54 | 6.67 | 1,969 | 1,236.57 | 1,236.57 |
| CO-88 | 1,242.41 | 1,233.26 | 9.15 | 5,908 | 1,233.31 | 1,233.31 |
| CO-89 | 1,241.84 | 1,232.22 | 9.61 | 19,695 | 1,232.32 | 1,232.32 |
| CO-90 | 1,240.74 | 1,231.10 | 9.64 | 19,695 | 1,231.18 | 1,231.18 |
| CO-91 | 1,247.46 | 1,240.79 | 6.67 | 2,184 | 1,240.83 | 1,240.83 |
| CO-92 | 1,247.15 | 1,239.60 | 7.55 | 4,368 | 1,239.65 | 1,239.65 |
| CO-93 | 1,246.49 | 1,238.64 | 7.85 | 6,552 | 1,238.70 | 1,238.70 |
| CO-94 | 1,247.19 | 1,240.52 | 6.67 | 2,184 | 1,240.55 | 1,240.55 |
| CO-95 | 1,246.29 | 1,239.38 | 6.92 | 4,368 | 1,239.41 | 1,239.41 |
| CO-96 | 1,245.98 | 1,237.61 | 8.36 | 13,104 | 1,237.69 | 1,237.69 |
| CO-97 | 1,246.84 | 1,240.17 | 6.67 | 2,184 | 1,240.21 | 1,240.21 |
| CO-98 | 1,246.40 | 1,238.94 | 7.46 | 4,368 | 1,238.99 | 1,238.99 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|--------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-99 | 1,245.32 | 1,237.25 | 8.07 | 6,552 | 1,237.31 | 1,237.31 |
| CO-100 | 1,245.34 | 1,236.63 | 8.71 | 19,656 | 1,236.71 | 1,236.71 |
| CO-101 | 1,248.16 | 1,241.50 | 6.67 | 1,560 | 1,241.52 | 1,241.52 |
| CO-102 | 1,248.22 | 1,241.55 | 6.67 | 1,560 | 1,241.57 | 1,241.57 |
| CO-103 | 1,248.27 | 1,241.61 | 6.67 | 1,560 | 1,241.63 | 1,241.63 |
| CO-104 | 1,248.53 | 1,241.86 | 6.67 | 1,560 | 1,241.88 | 1,241.88 |
| CO-105 | 1,248.37 | 1,240.87 | 7.50 | 4,680 | 1,240.91 | 1,240.91 |
| CO-106 | 1,248.25 | 1,239.85 | 8.39 | 7,800 | 1,239.92 | 1,239.92 |
| CO-107 | 1,248.22 | 1,238.94 | 9.28 | 7,800 | 1,239.00 | 1,239.00 |
| CO-108 | 1,248.22 | 1,238.61 | 9.61 | 10,920 | 1,238.68 | 1,238.68 |
| CO-109 | 1,250.61 | 1,243.94 | 6.67 | 1,560 | 1,243.97 | 1,243.97 |
| CO-110 | 1,250.47 | 1,242.55 | 7.92 | 3,120 | 1,242.59 | 1,242.59 |
| CO-111 | 1,250.15 | 1,241.44 | 8.71 | 3,120 | 1,241.47 | 1,241.47 |
| CO-112 | 1,250.47 | 1,243.80 | 6.67 | 1,560 | 1,243.83 | 1,243.83 |
| CO-113 | 1,252.29 | 1,242.96 | 9.33 | 3,120 | 1,243.00 | 1,243.00 |
| CO-114 | 1,250.23 | 1,241.73 | 8.50 | 4,680 | 1,241.78 | 1,241.78 |
| CO-115 | 1,250.41 | 1,240.50 | 9.91 | 6,240 | 1,240.56 | 1,240.56 |
| CO-116 | 1,250.37 | 1,239.84 | 10.54 | 7,800 | 1,239.90 | 1,239.90 |
| CO-117 | 1,250.05 | 1,239.26 | 10.79 | 12,480 | 1,239.33 | 1,239.33 |
| CO-118 | 1,248.43 | 1,238.00 | 10.44 | 23,400 | 1,238.10 | 1,238.10 |
| CO-119 | 1,248.23 | 1,237.26 | 10.97 | 23,400 | 1,237.37 | 1,237.37 |
| CO-120 | 1,248.28 | 1,236.30 | 11.98 | 23,400 | 1,236.40 | 1,236.40 |
| CO-121 | 1,246.71 | 1,235.42 | 11.30 | 23,400 | 1,235.52 | 1,235.52 |
| CO-122 | 1,245.75 | 1,234.03 | 11.72 | 23,400 | 1,234.13 | 1,234.13 |
| CO-123 | 1,245.11 | 1,233.05 | 12.06 | 43,056 | 1,233.17 | 1,233.17 |
| CO-124 | 1,245.17 | 1,238.50 | 6.67 | 1,969 | 1,238.54 | 1,238.54 |
| CO-125 | 1,244.63 | 1,236.75 | 7.87 | 3,939 | 1,236.79 | 1,236.79 |
| CO-126 | 1,248.36 | 1,241.69 | 6.67 | 5,359 | 1,241.74 | 1,241.74 |
| CO-127 | 1,248.32 | 1,240.59 | 7.73 | 10,717 | 1,240.66 | 1,240.66 |
| CO-128 | 1,245.53 | 1,238.68 | 6.85 | 16,076 | 1,238.77 | 1,238.77 |
| CO-129 | 1,244.77 | 1,237.73 | 7.05 | 21,434 | 1,237.83 | 1,237.83 |
| CO-130 | 1,243.51 | 1,236.40 | 7.11 | 26,793 | 1,236.51 | 1,236.51 |
| CO-131 | 1,243.65 | 1,235.52 | 8.13 | 32,151 | 1,235.64 | 1,235.64 |
| CO-132 | 1,244.20 | 1,234.55 | 9.65 | 37,510 | 1,234.68 | 1,234.68 |
| CO-133 | 1,250.09 | 1,243.43 | 6.67 | 11,895 | 1,243.50 | 1,243.50 |
| CO-134 | 1,248.65 | 1,241.87 | 6.78 | 23,790 | 1,241.97 | 1,241.97 |
| CO-135 | 1,247.64 | 1,240.86 | 6.77 | 35,685 | 1,240.98 | 1,240.98 |
| CO-136 | 1,246.56 | 1,239.79 | 6.77 | 47,580 | 1,239.94 | 1,239.94 |
| CO-137 | 1,245.34 | 1,238.57 | 6.77 | 59,475 | 1,238.73 | 1,238.73 |
| CO-138 | 1,247.14 | 1,240.48 | 6.67 | 11,895 | 1,240.54 | 1,240.54 |
| CO-139 | 1,244.86 | 1,238.10 | 6.77 | 71,370 | 1,238.25 | 1,238.25 |
| CO-140 | 1,244.65 | 1,233.86 | 10.79 | 108,880 | 1,234.09 | 1,234.09 |
| CO-141 | 1,242.29 | 1,235.62 | 6.67 | 14,859 | 1,235.71 | 1,235.71 |
| CO-142 | 1,242.90 | 1,234.54 | 8.36 | 29,718 | 1,234.65 | 1,234.65 |
| CO-143 | 1,246.07 | 1,239.40 | 6.67 | 29,016 | 1,239.52 | 1,239.52 |
| CO-144 | 1,245.25 | 1,238.17 | 7.08 | 58,032 | 1,238.30 | 1,238.30 |
| CO-145 | 1,243.83 | 1,232.79 | 11.05 | 196,630 | 1,233.09 | 1,233.09 |
| CO-146 | 1,242.73 | 1,232.04 | 10.69 | 196,630 | 1,232.35 | 1,232.35 |
| CO-147 | 1,241.96 | 1,231.17 | 10.79 | 196,630 | 1,231.47 | 1,231.47 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|--------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-148 | 1,241.50 | 1,230.58 | 10.92 | 199,001 | 1,230.89 | 1,230.89 |
| CO-149 | 1,242.64 | 1,229.51 | 13.13 | 201,372 | 1,229.81 | 1,229.81 |
| CO-150 | 1,244.24 | 1,228.36 | 15.88 | 248,367 | 1,228.71 | 1,228.71 |
| CO-151 | 1,243.01 | 1,227.06 | 15.95 | 248,367 | 1,227.41 | 1,227.41 |
| CO-152 | 1,241.20 | 1,225.76 | 15.44 | 248,367 | 1,226.03 | 1,226.03 |
| CO-153 | 1,240.08 | 1,219.37 | 20.71 | 268,062 | 1,219.65 | 1,219.65 |
| CO-154 | 1,239.79 | 1,212.72 | 27.07 | 410,974 | 1,213.16 | 1,213.16 |
| CO-155 | 1,245.35 | 1,238.69 | 6.67 | 1,573 | 1,238.71 | 1,238.71 |
| CO-156 | 1,244.55 | 1,237.89 | 6.67 | 1,573 | 1,237.91 | 1,237.91 |
| CO-157 | 1,245.69 | 1,239.02 | 6.67 | 1,573 | 1,239.04 | 1,239.04 |
| CO-158 | 1,245.58 | 1,237.11 | 8.47 | 4,719 | 1,237.16 | 1,237.16 |
| CO-159 | 1,245.63 | 1,236.50 | 9.13 | 6,292 | 1,236.56 | 1,236.56 |
| CO-160 | 1,245.46 | 1,235.91 | 9.55 | 9,438 | 1,235.97 | 1,235.97 |
| CO-161 | 1,245.90 | 1,235.40 | 10.50 | 11,011 | 1,235.46 | 1,235.46 |
| CO-162 | 1,248.14 | 1,241.47 | 6.67 | 1,573 | 1,241.50 | 1,241.50 |
| CO-163 | 1,248.11 | 1,240.53 | 7.57 | 3,146 | 1,240.57 | 1,240.57 |
| CO-164 | 1,248.08 | 1,239.65 | 8.44 | 4,719 | 1,239.69 | 1,239.69 |
| CO-165 | 1,244.84 | 1,238.07 | 6.77 | 6,292 | 1,238.11 | 1,238.11 |
| CO-166 | 1,247.66 | 1,241.00 | 6.67 | 1,573 | 1,241.02 | 1,241.02 |
| CO-167 | 1,247.55 | 1,239.83 | 7.72 | 3,146 | 1,239.86 | 1,239.86 |
| CO-168 | 1,241.35 | 1,234.68 | 6.67 | 2,262 | 1,234.71 | 1,234.71 |
| CO-169 | 1,243.73 | 1,233.46 | 10.27 | 4,524 | 1,233.50 | 1,233.50 |
| CO-170 | 1,244.24 | 1,232.27 | 11.96 | 6,786 | 1,232.32 | 1,232.32 |
| CO-171 | 1,239.70 | 1,233.03 | 6.67 | 1,638 | 1,233.06 | 1,233.06 |
| CO-172 | 1,239.73 | 1,232.03 | 7.70 | 3,276 | 1,232.07 | 1,232.07 |
| CO-173 | 1,240.90 | 1,230.99 | 9.90 | 4,914 | 1,231.04 | 1,231.04 |
| CO-174 | 1,238.54 | 1,231.87 | 6.67 | 1,638 | 1,231.90 | 1,231.90 |
| CO-175 | 1,239.63 | 1,230.68 | 8.95 | 3,276 | 1,230.72 | 1,230.72 |
| CO-176 | 1,240.63 | 1,229.42 | 11.21 | 9,828 | 1,229.49 | 1,229.49 |
| CO-177 | 1,240.75 | 1,228.90 | 11.85 | 12,090 | 1,228.97 | 1,228.97 |
| CO-178 | 1,242.67 | 1,227.30 | 15.37 | 14,352 | 1,227.37 | 1,227.37 |
| CO-179 | 1,242.56 | 1,235.89 | 6.67 | 2,262 | 1,235.93 | 1,235.93 |
| CO-180 | 1,242.02 | 1,234.42 | 7.59 | 4,524 | 1,234.47 | 1,234.47 |
| CO-181 | 1,242.50 | 1,233.23 | 9.27 | 6,786 | 1,233.27 | 1,233.27 |
| CO-182 | 1,240.37 | 1,233.71 | 6.67 | 1,638 | 1,233.73 | 1,233.73 |
| CO-183 | 1,240.23 | 1,233.56 | 6.67 | 1,638 | 1,233.59 | 1,233.59 |
| CO-184 | 1,239.94 | 1,232.57 | 7.37 | 3,276 | 1,232.61 | 1,232.61 |
| CO-185 | 1,238.05 | 1,231.29 | 6.77 | 4,914 | 1,231.34 | 1,231.34 |
| CO-186 | 1,238.04 | 1,231.38 | 6.67 | 1,638 | 1,231.40 | 1,231.40 |
| CO-187 | 1,238.36 | 1,230.15 | 8.21 | 8,190 | 1,230.21 | 1,230.21 |
| CO-188 | 1,239.85 | 1,228.99 | 10.86 | 9,828 | 1,229.06 | 1,229.06 |
| CO-189 | 1,240.09 | 1,228.01 | 12.08 | 13,104 | 1,228.08 | 1,228.08 |
| CO-190 | 1,240.18 | 1,227.30 | 12.88 | 13,104 | 1,227.38 | 1,227.38 |
| CO-191 | 1,240.48 | 1,226.60 | 13.87 | 22,152 | 1,226.71 | 1,226.71 |
| CO-192 | 1,242.27 | 1,225.47 | 16.79 | 24,414 | 1,225.58 | 1,225.58 |
| CO-193 | 1,243.27 | 1,224.35 | 18.92 | 26,676 | 1,224.46 | 1,224.46 |
| CO-194 | 1,243.71 | 1,223.23 | 20.47 | 50,076 | 1,223.39 | 1,223.39 |
| CO-195 | 1,244.68 | 1,221.86 | 22.83 | 61,087 | 1,222.02 | 1,222.02 |
| CO-196 | 1,246.20 | 1,220.78 | 25.42 | 62,660 | 1,220.95 | 1,220.95 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|--------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-197 | 1,246.58 | 1,219.95 | 26.63 | 64,233 | 1,220.12 | 1,220.12 |
| CO-198 | 1,246.27 | 1,219.05 | 27.22 | 76,817 | 1,219.23 | 1,219.23 |
| CO-199 | 1,247.02 | 1,218.45 | 28.57 | 78,390 | 1,218.64 | 1,218.64 |
| CO-200 | 1,247.20 | 1,240.53 | 6.67 | 2,223 | 1,240.56 | 1,240.56 |
| CO-201 | 1,246.30 | 1,239.53 | 6.77 | 2,223 | 1,239.56 | 1,239.56 |
| CO-202 | 1,246.21 | 1,239.02 | 7.20 | 2,223 | 1,239.05 | 1,239.05 |
| CO-203 | 1,246.57 | 1,238.21 | 8.36 | 3,437 | 1,238.25 | 1,238.25 |
| CO-204 | 1,245.85 | 1,237.15 | 8.71 | 4,651 | 1,237.19 | 1,237.19 |
| CO-205 | 1,242.64 | 1,235.88 | 6.77 | 5,865 | 1,235.92 | 1,235.92 |
| CO-206 | 1,246.51 | 1,239.84 | 6.67 | 2,223 | 1,239.87 | 1,239.87 |
| CO-207 | 1,245.30 | 1,238.54 | 6.77 | 4,446 | 1,238.57 | 1,238.57 |
| CO-208 | 1,248.61 | 1,241.94 | 6.67 | 2,223 | 1,241.97 | 1,241.97 |
| CO-209 | 1,245.89 | 1,239.22 | 6.67 | 2,223 | 1,239.25 | 1,239.25 |
| CO-210 | 1,247.66 | 1,237.44 | 10.22 | 6,669 | 1,237.50 | 1,237.50 |
| CO-211 | 1,248.59 | 1,241.92 | 6.67 | 2,223 | 1,241.95 | 1,241.95 |
| CO-212 | 1,246.83 | 1,236.23 | 10.60 | 11,115 | 1,236.31 | 1,236.31 |
| CO-213 | 1,245.99 | 1,234.74 | 11.26 | 13,338 | 1,234.82 | 1,234.82 |
| CO-214 | 1,244.51 | 1,233.66 | 10.84 | 20,007 | 1,233.76 | 1,233.76 |
| CO-215 | 1,246.06 | 1,239.40 | 6.67 | 746 | 1,239.42 | 1,239.42 |
| CO-216 | 1,245.29 | 1,238.46 | 6.82 | 1,258 | 1,238.48 | 1,238.48 |
| CO-217 | 1,244.20 | 1,232.60 | 11.59 | 22,479 | 1,232.70 | 1,232.70 |
| CO-218 | 1,243.83 | 1,232.04 | 11.79 | 23,693 | 1,232.15 | 1,232.15 |
| CO-219 | 1,243.27 | 1,231.27 | 12.00 | 24,907 | 1,231.38 | 1,231.38 |
| CO-220 | 1,243.14 | 1,230.60 | 12.54 | 26,120 | 1,230.71 | 1,230.71 |
| CO-221 | 1,242.86 | 1,229.88 | 12.98 | 27,334 | 1,229.99 | 1,229.99 |
| CO-222 | 1,245.16 | 1,238.49 | 6.67 | 1,214 | 1,238.51 | 1,238.51 |
| CO-223 | 1,243.95 | 1,237.18 | 6.77 | 2,428 | 1,237.21 | 1,237.21 |
| CO-224 | 1,245.44 | 1,238.77 | 6.67 | 0 | 1,238.77 | 1,238.77 |
| CO-225 | 1,243.83 | 1,236.35 | 7.47 | 3,642 | 1,236.40 | 1,236.40 |
| CO-226 | 1,244.54 | 1,237.88 | 6.67 | 1,214 | 1,237.90 | 1,237.90 |
| CO-227 | 1,243.70 | 1,236.93 | 6.77 | 2,428 | 1,236.96 | 1,236.96 |
| CO-228 | 1,243.27 | 1,235.29 | 7.98 | 7,283 | 1,235.34 | 1,235.34 |
| CO-229 | 1,243.29 | 1,229.22 | 14.07 | 34,618 | 1,229.35 | 1,229.35 |
| CO-230 | 1,242.73 | 1,228.16 | 14.57 | 41,696 | 1,228.30 | 1,228.30 |
| CO-231 | 1,242.62 | 1,227.88 | 14.74 | 41,696 | 1,228.02 | 1,228.02 |
| CO-232 | 1,241.64 | 1,226.44 | 15.20 | 465,170 | 1,226.91 | 1,226.91 |
| CO-233 | 1,244.36 | 1,225.64 | 18.71 | 465,170 | 1,226.11 | 1,226.11 |
| CO-234 | 1,252.55 | 1,245.88 | 6.67 | 3,406 | 1,245.92 | 1,245.92 |
| CO-235 | 1,250.83 | 1,244.06 | 6.77 | 6,812 | 1,244.11 | 1,244.11 |
| CO-236 | 1,248.94 | 1,240.78 | 8.16 | 10,218 | 1,240.84 | 1,240.84 |
| CO-237 | 1,248.80 | 1,242.13 | 6.67 | 1,789 | 1,242.17 | 1,242.17 |
| CO-238 | 1,250.37 | 1,240.73 | 9.65 | 3,579 | 1,240.77 | 1,240.77 |
| CO-239 | 1,250.86 | 1,239.31 | 11.55 | 5,368 | 1,239.36 | 1,239.36 |
| CO-240 | 1,248.44 | 1,241.78 | 6.67 | 1,789 | 1,241.81 | 1,241.81 |
| CO-241 | 1,247.96 | 1,240.82 | 7.14 | 3,579 | 1,240.86 | 1,240.86 |
| CO-242 | 1,249.07 | 1,239.72 | 9.35 | 5,368 | 1,239.78 | 1,239.78 |
| CO-243 | 1,250.20 | 1,238.60 | 11.61 | 7,158 | 1,238.65 | 1,238.65 |
| CO-244 | 1,249.91 | 1,237.79 | 12.11 | 14,315 | 1,237.86 | 1,237.86 |
| CO-245 | 1,249.38 | 1,242.71 | 6.67 | 1,789 | 1,242.74 | 1,242.74 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|--------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-246 | 1,248.97 | 1,242.19 | 6.79 | 3,579 | 1,242.22 | 1,242.22 |
| CO-247 | 1,248.57 | 1,241.90 | 6.67 | 1,789 | 1,241.93 | 1,241.93 |
| CO-248 | 1,247.98 | 1,241.21 | 6.77 | 3,579 | 1,241.24 | 1,241.24 |
| CO-249 | 1,247.00 | 1,240.33 | 6.67 | 1,789 | 1,240.36 | 1,240.36 |
| CO-250 | 1,246.69 | 1,238.99 | 7.70 | 3,579 | 1,239.04 | 1,239.04 |
| CO-251 | 1,247.98 | 1,237.99 | 9.99 | 8,947 | 1,238.06 | 1,238.06 |
| CO-252 | 1,248.91 | 1,236.94 | 11.96 | 14,315 | 1,237.03 | 1,237.03 |
| CO-253 | 1,249.20 | 1,235.77 | 13.43 | 16,105 | 1,235.85 | 1,235.85 |
| CO-254 | 1,249.51 | 1,235.04 | 14.47 | 30,420 | 1,235.16 | 1,235.16 |
| CO-255 | 1,254.48 | 1,247.81 | 6.67 | 2,702 | 1,247.85 | 1,247.85 |
| CO-256 | 1,253.03 | 1,246.06 | 6.97 | 5,403 | 1,246.11 | 1,246.11 |
| CO-257 | 1,250.70 | 1,243.93 | 6.77 | 5,403 | 1,243.98 | 1,243.98 |
| CO-258 | 1,251.16 | 1,243.69 | 7.47 | 5,403 | 1,243.73 | 1,243.73 |
| CO-259 | 1,254.76 | 1,248.09 | 6.67 | 2,702 | 1,248.13 | 1,248.13 |
| CO-260 | 1,252.75 | 1,245.99 | 6.77 | 5,403 | 1,246.04 | 1,246.04 |
| CO-261 | 1,251.59 | 1,244.64 | 6.95 | 8,105 | 1,244.69 | 1,244.69 |
| CO-262 | 1,253.66 | 1,246.99 | 6.67 | 2,702 | 1,247.03 | 1,247.03 |
| CO-263 | 1,254.75 | 1,248.08 | 6.67 | 2,702 | 1,248.11 | 1,248.11 |
| CO-264 | 1,254.10 | 1,246.09 | 8.01 | 8,105 | 1,246.15 | 1,246.15 |
| CO-265 | 1,252.29 | 1,244.34 | 7.96 | 10,807 | 1,244.41 | 1,244.41 |
| CO-266 | 1,251.28 | 1,243.03 | 8.25 | 13,508 | 1,243.11 | 1,243.11 |
| CO-267 | 1,251.16 | 1,242.68 | 8.49 | 24,315 | 1,242.78 | 1,242.78 |
| CO-268 | 1,250.92 | 1,242.08 | 8.84 | 29,718 | 1,242.18 | 1,242.18 |
| CO-269 | 1,251.05 | 1,244.39 | 6.67 | 1,901 | 1,244.41 | 1,244.41 |
| CO-270 | 1,249.78 | 1,243.12 | 6.67 | 1,901 | 1,243.15 | 1,243.15 |
| CO-271 | 1,249.35 | 1,242.69 | 6.67 | 1,901 | 1,242.72 | 1,242.72 |
| CO-272 | 1,249.93 | 1,242.16 | 7.77 | 5,704 | 1,242.21 | 1,242.21 |
| CO-273 | 1,250.87 | 1,241.41 | 9.45 | 7,605 | 1,241.47 | 1,241.47 |
| CO-274 | 1,251.35 | 1,240.90 | 10.45 | 11,408 | 1,240.97 | 1,240.97 |
| CO-275 | 1,251.44 | 1,244.78 | 6.67 | 1,901 | 1,244.80 | 1,244.80 |
| CO-276 | 1,254.73 | 1,248.06 | 6.67 | 1,901 | 1,248.09 | 1,248.09 |
| CO-277 | 1,254.06 | 1,247.21 | 6.84 | 3,802 | 1,247.25 | 1,247.25 |
| CO-278 | 1,254.93 | 1,248.27 | 6.67 | 1,901 | 1,248.30 | 1,248.30 |
| CO-279 | 1,253.45 | 1,246.52 | 6.93 | 3,802 | 1,246.56 | 1,246.56 |
| CO-280 | 1,251.44 | 1,244.67 | 6.77 | 5,704 | 1,244.72 | 1,244.72 |
| CO-281 | 1,250.97 | 1,243.62 | 7.35 | 7,605 | 1,243.68 | 1,243.68 |
| CO-282 | 1,252.16 | 1,242.48 | 9.67 | 9,506 | 1,242.55 | 1,242.55 |
| CO-283 | 1,253.35 | 1,241.35 | 12.01 | 13,309 | 1,241.42 | 1,241.42 |
| CO-284 | 1,252.19 | 1,239.81 | 12.38 | 28,519 | 1,239.93 | 1,239.93 |
| CO-285 | 1,252.64 | 1,238.80 | 13.84 | 30,420 | 1,238.92 | 1,238.92 |
| CO-286 | 1,252.20 | 1,238.02 | 14.18 | 30,420 | 1,238.13 | 1,238.13 |
| CO-287 | 1,251.18 | 1,237.49 | 13.70 | 30,420 | 1,237.60 | 1,237.60 |
| CO-288 | 1,255.23 | 1,248.56 | 6.67 | 1,788 | 1,248.59 | 1,248.59 |
| CO-289 | 1,256.95 | 1,250.29 | 6.67 | 1,788 | 1,250.32 | 1,250.32 |
| CO-290 | 1,257.53 | 1,249.18 | 8.34 | 3,577 | 1,249.22 | 1,249.22 |
| CO-291 | 1,256.38 | 1,247.32 | 9.07 | 7,154 | 1,247.37 | 1,247.37 |
| CO-292 | 1,255.47 | 1,246.54 | 8.92 | 7,154 | 1,246.60 | 1,246.60 |
| CO-293 | 1,254.70 | 1,245.94 | 8.75 | 8,942 | 1,246.01 | 1,246.01 |
| CO-294 | 1,259.04 | 1,252.38 | 6.67 | 1,788 | 1,252.41 | 1,252.41 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|----------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-295 | 1,257.02 | 1,250.25 | 6.77 | 3,577 | 1,250.28 | 1,250.28 |
| CO-296 | 1,258.61 | 1,251.94 | 6.67 | 1,788 | 1,251.98 | 1,251.98 |
| CO-297 | 1,259.71 | 1,251.14 | 8.58 | 3,577 | 1,251.18 | 1,251.18 |
| CO-298 | 1,257.64 | 1,249.39 | 8.26 | 5,365 | 1,249.44 | 1,249.44 |
| CO-299 | 1,256.49 | 1,248.36 | 8.13 | 7,154 | 1,248.41 | 1,248.41 |
| CO-300 | 1,255.52 | 1,247.28 | 8.24 | 12,519 | 1,247.35 | 1,247.35 |
| CO-301 | 1,254.10 | 1,245.29 | 8.82 | 23,250 | 1,245.39 | 1,245.39 |
| CO-302 | 1,252.72 | 1,243.87 | 8.85 | 25,038 | 1,243.96 | 1,243.96 |
| CO-303 | 1,252.04 | 1,236.70 | 15.34 | 55,458 | 1,236.86 | 1,236.86 |
| CO-304 | 1,251.04 | 1,235.53 | 15.51 | 55,458 | 1,235.68 | 1,235.68 |
| CO-305 | 1,250.21 | 1,234.26 | 15.95 | 115,596 | 1,234.49 | 1,234.49 |
| CO-306 | 1,249.93 | 1,233.09 | 16.83 | 115,596 | 1,233.33 | 1,233.33 |
| CO-307 | 1,252.98 | 1,246.31 | 6.67 | 3,406 | 1,246.35 | 1,246.35 |
| CO-308 | 1,251.27 | 1,244.50 | 6.77 | 6,812 | 1,244.56 | 1,244.56 |
| CO-309 | 1,249.74 | 1,242.75 | 6.99 | 10,218 | 1,242.81 | 1,242.81 |
| CO-310 | 1,248.79 | 1,232.44 | 16.35 | 125,814 | 1,232.68 | 1,232.68 |
| CO-311 | 1,248.79 | 1,231.24 | 17.55 | 136,032 | 1,231.49 | 1,231.49 |
| CO-312 | 1,248.34 | 1,229.85 | 18.49 | 136,032 | 1,230.10 | 1,230.10 |
| CO-313 | 1,246.85 | 1,228.84 | 18.01 | 136,032 | 1,229.09 | 1,229.09 |
| CO-314 | 1,245.78 | 1,227.77 | 18.01 | 136,032 | 1,228.02 | 1,228.02 |
| CO-315 | 1,250.97 | 1,244.31 | 6.67 | 2,262 | 1,244.34 | 1,244.34 |
| CO-316 | 1,251.83 | 1,245.17 | 6.67 | 0 | 1,245.17 | 1,245.17 |
| CO-317 | 1,250.63 | 1,243.45 | 7.18 | 4,524 | 1,243.49 | 1,243.49 |
| CO-318 | 1,251.11 | 1,242.56 | 8.56 | 6,786 | 1,242.61 | 1,242.61 |
| CO-319 | 1,249.65 | 1,241.54 | 8.10 | 9,048 | 1,241.60 | 1,241.60 |
| CO-320 | 1,252.66 | 1,246.00 | 6.67 | 3,406 | 1,246.04 | 1,246.04 |
| CO-321 | 1,253.14 | 1,244.29 | 8.85 | 6,812 | 1,244.35 | 1,244.35 |
| CO-322 | 1,250.74 | 1,242.54 | 8.19 | 10,218 | 1,242.61 | 1,242.61 |
| CO-323 | 1,248.48 | 1,240.87 | 7.61 | 10,218 | 1,240.94 | 1,240.94 |
| CO-324 | 1,248.33 | 1,240.59 | 7.73 | 12,480 | 1,240.67 | 1,240.67 |
| CO-325 | 1,247.84 | 1,239.38 | 8.46 | 14,742 | 1,239.46 | 1,239.46 |
| CO-326 | 1,246.47 | 1,238.56 | 7.91 | 26,052 | 1,238.67 | 1,238.67 |
| CO-327 | 1,251.64 | 1,244.97 | 6.67 | 2,262 | 1,245.00 | 1,245.00 |
| CO-328 | 1,249.46 | 1,242.69 | 6.77 | 4,524 | 1,242.74 | 1,242.74 |
| CO-329 | 1,249.46 | 1,241.79 | 7.67 | 6,786 | 1,241.84 | 1,241.84 |
| CO-330 | 1,248.64 | 1,240.69 | 7.95 | 9,048 | 1,240.75 | 1,240.75 |
| CO-331 | 1,245.86 | 1,237.56 | 8.29 | 37,362 | 1,237.67 | 1,237.67 |
| CO-332 | 1,245.50 | 1,226.81 | 18.69 | 173,394 | 1,227.04 | 1,227.04 |
| CO-333 | 1,244.89 | 1,224.84 | 20.05 | 638,564 | 1,225.40 | 1,225.40 |
| CO-334 | 1,245.20 | 1,224.35 | 20.85 | 638,564 | 1,224.91 | 1,224.91 |
| CO-335 | 1,248.35 | 1,223.62 | 24.73 | 638,564 | 1,224.18 | 1,224.18 |
| OFF-MH-1 | 1,233.00 | 1,210.42 | 22.58 | 5,594,138 | 1,211.84 | 1,211.84 |
| OFF-MH-2 | 1,234.00 | 1,210.94 | 23.06 | 5,594,138 | 1,212.39 | 1,212.39 |
| OFF-MH-3 | 1,233.00 | 1,211.46 | 21.54 | 5,594,138 | 1,212.91 | 1,212.91 |
| OFF-MH-4 | 1,236.00 | 1,211.98 | 24.02 | 5,594,138 | 1,213.43 | 1,213.43 |
| OFF-MH-5 | 1,237.00 | 1,212.50 | 24.50 | 5,594,138 | 1,213.95 | 1,213.95 |
| OFF-MH-6 | 1,239.00 | 1,213.02 | 25.98 | 5,594,138 | 1,214.47 | 1,214.47 |
| OFF-MH-7 | 1,240.00 | 1,213.54 | 26.46 | 5,594,138 | 1,214.99 | 1,214.99 |
| OFF-MH-8 | 1,241.00 | 1,214.06 | 26.94 | 5,594,138 | 1,215.51 | 1,215.51 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|-----------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| OFF-MH-9 | 1,245.00 | 1,214.58 | 30.42 | 5,594,138 | 1,216.03 | 1,216.03 |
| OFF-MH-10 | 1,248.66 | 1,215.10 | 33.56 | 5,594,138 | 1,216.55 | 1,216.55 |
| OFF-MH-11 | 1,246.98 | 1,215.62 | 31.36 | 5,594,138 | 1,217.07 | 1,217.07 |
| OFF-MH-11 | 1,247.67 | 1,218.39 | 29.28 | 5,515,748 | 1,219.31 | 1,219.31 |
| OFF-MH-12 | 1,249.00 | 1,221.22 | 27.78 | 5,515,748 | 1,222.14 | 1,222.14 |
| OFF-MH-13 | 1,252.16 | 1,225.85 | 26.31 | 4,877,184 | 1,226.71 | 1,226.71 |
| OFF-MH-14 | 1,253.17 | 1,230.47 | 22.70 | 4,877,184 | 1,231.33 | 1,231.33 |
| OFF-MH-15 | 1,253.35 | 1,233.39 | 19.96 | 4,877,184 | 1,234.26 | 1,234.26 |
| OFF-MH-16 | 1,254.65 | 1,239.45 | 15.20 | 4,877,184 | 1,240.36 | 1,240.36 |
| OFF-MH-17 | 1,256.81 | 1,244.27 | 12.54 | 4,877,184 | 1,245.18 | 1,245.18 |
| OFF-MH-18 | 1,258.62 | 1,250.02 | 8.60 | 4,877,184 | 1,250.93 | 1,250.93 |
| OFF-MH-19 | 1,260.70 | 1,226.70 | 34.00 | 4,877,184 | 1,253.16 | 1,253.16 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Hydraulic Grade (ft) | Flow (Total Out) (gal/day) |
|--------------------|-------------------------|-------------------------------|-------------------------|-------------------------------|
| O-1 | 1,229.27 | 1,210.00 | 1,210.93 | 5,594,138 |
| O-2 - Lift Station | 1,240.04 | 1,212.53 | 1,212.87 | 410,974 |

PEAK FLOW

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|-------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-1 | 8.0 | 0.013 | 100.6 | 0.01123 | CO-186 | 1,231.38 | 6.00 | CO-187 | 1,230.25 | 7.44 | 5,930 | 1.06 | 0.8 | 754,797 | 6.1 | 827,739 |
| CO-2 | 8.0 | 0.013 | 320.3 | 0.00330 | CO-187 | 1,230.15 | 7.54 | CO-188 | 1,229.09 | 10.09 | 25,717 | 1.08 | 6.3 | 409,101 | 16.3 | 448,636 |
| CO-3 | 8.0 | 0.013 | 268.1 | 0.00330 | CO-188 | 1,228.99 | 10.19 | CO-189 | 1,228.11 | 11.32 | 30,860 | 1.14 | 7.5 | 409,101 | 17.8 | 448,636 |
| CO-4 | 8.0 | 0.013 | 184.5 | 0.00330 | CO-189 | 1,228.01 | 11.42 | CO-190 | 1,227.40 | 12.11 | 41,147 | 1.24 | 10.1 | 409,101 | 20.5 | 448,636 |
| CO-5 | 8.0 | 0.013 | 179.7 | 0.00330 | CO-190 | 1,227.30 | 12.21 | CO-191 | 1,226.70 | 13.11 | 41,147 | 1.24 | 10.1 | 409,101 | 20.5 | 448,636 |
| CO-6 | 8.0 | 0.013 | 312.0 | 0.00330 | CO-191 | 1,226.60 | 13.21 | CO-192 | 1,225.57 | 16.02 | 60,696 | 1.39 | 14.8 | 409,101 | 24.8 | 448,636 |
| CO-7 | 8.0 | 0.013 | 311.1 | 0.00330 | CO-192 | 1,225.47 | 16.12 | CO-193 | 1,224.45 | 18.16 | 66,894 | 1.43 | 16.4 | 409,101 | 26.1 | 448,636 |
| CO-8 | 8.0 | 0.013 | 307.2 | 0.00330 | CO-193 | 1,224.35 | 18.26 | CO-194 | 1,223.33 | 19.71 | 73,092 | 1.46 | 17.9 | 409,101 | 27.3 | 448,636 |
| CO-9 | 8.0 | 0.013 | 119.7 | 0.00330 | CO-199 | 1,218.45 | 27.90 | OFF-MH-11 | 1,218.05 | 28.26 | 184,771 | 1.89 | 45.2 | 409,101 | 44.7 | 448,636 |
| CO-10 | 8.0 | 0.013 | 337.3 | 0.05300 | CO-167 | 1,239.83 | 7.05 | CO-195 | 1,221.96 | 22.06 | 11,389 | 2.22 | 0.7 | 1,639,513 | 5.7 | 1,797,953 |
| CO-11 | 8.0 | 0.013 | 322.3 | 0.00330 | CO-166 | 1,241.00 | 6.00 | CO-167 | 1,239.93 | 6.95 | 5,694 | 0.69 | 1.4 | 409,101 | 7.9 | 448,636 |
| CO-12 | 8.0 | 0.013 | 255.4 | 0.00330 | CO-162 | 1,241.47 | 6.00 | CO-163 | 1,240.63 | 6.81 | 5,694 | 0.69 | 1.4 | 409,101 | 7.9 | 448,636 |
| CO-13 | 8.0 | 0.013 | 237.1 | 0.00330 | CO-163 | 1,240.53 | 6.91 | CO-164 | 1,239.75 | 7.67 | 11,389 | 0.85 | 2.8 | 409,101 | 11.0 | 448,636 |
| CO-14 | 8.0 | 0.013 | 266.3 | 0.00555 | CO-164 | 1,239.65 | 7.77 | CO-165 | 1,238.17 | 6.00 | 17,083 | 1.15 | 3.2 | 530,721 | 11.8 | 582,010 |
| CO-15 | 8.0 | 0.013 | 305.7 | 0.05271 | CO-165 | 1,238.07 | 6.10 | CO-195 | 1,221.96 | 22.06 | 22,777 | 2.76 | 1.4 | 1,635,040 | 7.9 | 1,793,047 |
| CO-16 | 8.0 | 0.013 | 151.0 | 0.00330 | CO-198 | 1,219.05 | 26.55 | CO-199 | 1,218.55 | 27.80 | 181,519 | 1.88 | 44.4 | 409,101 | 44.2 | 448,636 |
| CO-17 | 8.0 | 0.013 | 244.1 | 0.00330 | CO-197 | 1,219.95 | 25.96 | CO-198 | 1,219.15 | 26.45 | 155,444 | 1.81 | 38.0 | 409,101 | 40.6 | 448,636 |
| CO-18 | 8.0 | 0.013 | 219.4 | 0.00330 | CO-196 | 1,220.78 | 24.75 | CO-197 | 1,220.05 | 25.86 | 151,637 | 1.79 | 37.1 | 409,101 | 40.1 | 448,636 |
| CO-19 | 8.0 | 0.013 | 296.4 | 0.00330 | CO-195 | 1,221.86 | 22.16 | CO-196 | 1,220.88 | 24.65 | 147,831 | 1.78 | 36.1 | 409,101 | 39.5 | 448,636 |
| CO-20 | 8.0 | 0.013 | 101.1 | 0.01788 | CO-157 | 1,239.02 | 6.00 | CO-158 | 1,237.21 | 7.70 | 5,694 | 1.23 | 0.6 | 952,253 | 5.3 | 1,044,277 |
| CO-21 | 8.0 | 0.013 | 154.6 | 0.00330 | CO-158 | 1,237.11 | 7.80 | CO-159 | 1,236.60 | 8.36 | 17,083 | 0.96 | 4.2 | 409,101 | 13.3 | 448,636 |
| CO-22 | 8.0 | 0.013 | 150.6 | 0.00330 | CO-159 | 1,236.50 | 8.46 | CO-160 | 1,236.01 | 8.79 | 22,777 | 1.04 | 5.6 | 409,101 | 15.3 | 448,636 |
| CO-23 | 8.0 | 0.013 | 122.2 | 0.00330 | CO-160 | 1,235.91 | 8.89 | CO-161 | 1,235.50 | 9.73 | 29,635 | 1.13 | 7.2 | 409,101 | 17.4 | 448,636 |
| CO-24 | 8.0 | 0.013 | 282.3 | 0.05758 | CO-161 | 1,235.40 | 9.83 | CO-198 | 1,219.15 | 26.45 | 34,575 | 3.20 | 2.0 | 1,708,936 | 9.5 | 1,874,084 |
| CO-25 | 8.0 | 0.013 | 203.3 | 0.01320 | CO-155 | 1,238.69 | 6.00 | CO-160 | 1,236.01 | 8.79 | 5,694 | 1.11 | 0.7 | 818,138 | 5.7 | 897,202 |
| CO-26 | 8.0 | 0.013 | 204.1 | 0.00330 | CO-156 | 1,237.89 | 6.00 | CO-158 | 1,237.21 | 7.70 | 5,694 | 0.69 | 1.4 | 409,101 | 7.9 | 448,636 |
| CO-27 | 8.0 | 0.013 | 414.9 | 0.00330 | CO-179 | 1,235.89 | 6.00 | CO-180 | 1,234.52 | 6.83 | 8,188 | 0.77 | 2.0 | 409,101 | 9.4 | 448,636 |
| CO-28 | 8.0 | 0.013 | 332.5 | 0.00330 | CO-180 | 1,234.42 | 6.93 | CO-181 | 1,233.33 | 8.50 | 16,377 | 0.94 | 4.0 | 409,101 | 13.1 | 448,636 |
| CO-29 | 8.0 | 0.013 | 277.1 | 0.02354 | CO-181 | 1,233.23 | 8.60 | CO-191 | 1,226.70 | 13.11 | 24,565 | 2.12 | 2.2 | 1,092,530 | 9.9 | 1,198,110 |
| CO-30 | 8.0 | 0.013 | 270.1 | 0.00330 | CO-183 | 1,233.56 | 6.00 | CO-184 | 1,232.67 | 6.61 | 5,930 | 0.70 | 1.4 | 409,101 | 8.0 | 448,636 |
| CO-31 | 8.0 | 0.013 | 309.9 | 0.00382 | CO-184 | 1,232.57 | 6.71 | CO-185 | 1,231.39 | 6.00 | 11,859 | 0.90 | 2.7 | 440,096 | 10.8 | 482,626 |
| CO-32 | 8.0 | 0.013 | 314.7 | 0.00330 | CO-185 | 1,231.29 | 6.10 | CO-187 | 1,230.25 | 7.44 | 17,789 | 0.97 | 4.3 | 409,101 | 13.6 | 448,636 |
| CO-33 | 8.0 | 0.013 | 307.8 | 0.01819 | CO-182 | 1,233.71 | 6.00 | CO-189 | 1,228.11 | 11.32 | 5,930 | 1.26 | 0.6 | 960,578 | 5.4 | 1,053,407 |
| CO-34 | 8.0 | 0.013 | 329.0 | 0.00330 | CO-174 | 1,231.87 | 6.00 | CO-175 | 1,230.78 | 8.18 | 5,930 | 0.70 | 1.4 | 409,101 | 8.0 | 448,636 |
| CO-35 | 8.0 | 0.013 | 351.9 | 0.00330 | CO-175 | 1,230.68 | 8.28 | CO-176 | 1,229.52 | 10.44 | 11,859 | 0.86 | 2.9 | 409,101 | 11.2 | 448,636 |
| CO-36 | 8.0 | 0.013 | 128.7 | 0.00330 | CO-176 | 1,229.42 | 10.54 | CO-177 | 1,229.00 | 11.08 | 30,860 | 1.14 | 7.5 | 409,101 | 17.8 | 448,636 |
| CO-37 | 8.0 | 0.013 | 454.1 | 0.00330 | CO-177 | 1,228.90 | 11.18 | CO-178 | 1,227.40 | 14.61 | 37,963 | 1.21 | 9.3 | 409,101 | 19.7 | 448,636 |
| CO-38 | 8.0 | 0.013 | 343.6 | 0.01154 | CO-178 | 1,227.30 | 14.71 | CO-194 | 1,223.33 | 19.71 | 45,065 | 1.98 | 5.9 | 764,954 | 15.7 | 838,878 |
| CO-39 | 8.0 | 0.013 | 340.2 | 0.00330 | CO-168 | 1,234.68 | 6.00 | CO-169 | 1,233.56 | 9.51 | 8,188 | 0.77 | 2.0 | 409,101 | 9.4 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|-------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-40 | 8.0 | 0.013 | 328.1 | 0.00330 | CO-169 | 1,233.46 | 9.61 | CO-170 | 1,232.37 | 11.20 | 16,377 | 0.94 | 4.0 | 409,101 | 13.1 | 448,636 |
| CO-41 | 8.0 | 0.013 | 302.2 | 0.02958 | CO-170 | 1,232.27 | 11.30 | CO-194 | 1,223.33 | 19.71 | 24,565 | 2.30 | 2.0 | 1,224,908 | 9.4 | 1,343,281 |
| CO-42 | 8.0 | 0.013 | 272.3 | 0.00330 | CO-171 | 1,233.03 | 6.00 | CO-172 | 1,232.13 | 6.93 | 5,930 | 0.70 | 1.4 | 409,101 | 8.0 | 448,636 |
| CO-43 | 8.0 | 0.013 | 285.2 | 0.00330 | CO-172 | 1,232.03 | 7.03 | CO-173 | 1,231.09 | 9.14 | 11,859 | 0.86 | 2.9 | 409,101 | 11.2 | 448,636 |
| CO-44 | 8.0 | 0.013 | 313.6 | 0.00469 | CO-173 | 1,230.99 | 9.24 | CO-176 | 1,229.52 | 10.44 | 17,789 | 1.10 | 3.6 | 487,536 | 12.5 | 534,651 |
| CO-45 | 8.0 | 0.013 | 204.3 | 0.00330 | CO-218 | 1,232.04 | 11.12 | CO-219 | 1,231.37 | 11.24 | 64,918 | 1.42 | 15.9 | 409,101 | 25.7 | 448,636 |
| CO-46 | 8.0 | 0.013 | 171.6 | 0.00330 | CO-219 | 1,231.27 | 11.34 | CO-220 | 1,230.70 | 11.77 | 68,244 | 1.44 | 16.7 | 409,101 | 26.4 | 448,636 |
| CO-47 | 8.0 | 0.013 | 188.4 | 0.00330 | CO-220 | 1,230.60 | 11.87 | CO-221 | 1,229.98 | 12.21 | 71,570 | 1.46 | 17.5 | 409,101 | 27.0 | 448,636 |
| CO-48 | 8.0 | 0.013 | 170.1 | 0.00330 | CO-221 | 1,229.88 | 12.31 | CO-229 | 1,229.32 | 13.31 | 74,896 | 1.48 | 18.3 | 409,101 | 27.6 | 448,636 |
| CO-49 | 8.0 | 0.013 | 292.0 | 0.00330 | CO-225 | 1,236.35 | 6.81 | CO-228 | 1,235.39 | 7.21 | 13,183 | 0.88 | 3.2 | 409,101 | 11.8 | 448,636 |
| CO-50 | 8.0 | 0.013 | 265.1 | 0.00875 | CO-225 | 1,236.45 | 6.71 | CO-224 | 1,238.77 | 6.00 | 0 | 0.00 | 0.0 | 666,297 | (N/A) | 730,687 |
| CO-51 | 8.0 | 0.013 | 214.1 | 0.00330 | CO-202 | 1,239.02 | 6.53 | CO-203 | 1,238.31 | 7.59 | 8,047 | 0.77 | 2.0 | 409,101 | 9.3 | 448,636 |
| CO-52 | 8.0 | 0.013 | 290.3 | 0.00330 | CO-229 | 1,229.22 | 13.41 | CO-230 | 1,228.26 | 13.81 | 91,390 | 1.56 | 22.3 | 409,101 | 30.6 | 448,636 |
| CO-53 | 8.0 | 0.013 | 293.7 | 0.00330 | CO-313 | 1,228.84 | 17.35 | CO-314 | 1,227.87 | 17.24 | 300,096 | 2.13 | 73.4 | 409,101 | 59.8 | 448,636 |
| CO-54 | 8.0 | 0.013 | 412.5 | 0.01846 | CO-205 | 1,235.88 | 6.10 | CO-230 | 1,228.26 | 13.81 | 21,230 | 1.86 | 2.2 | 967,660 | 9.8 | 1,061,173 |
| CO-55 | 8.0 | 0.013 | 330.3 | 0.00354 | CO-204 | 1,237.15 | 8.04 | CO-205 | 1,235.98 | 6.00 | 16,836 | 0.98 | 4.0 | 423,544 | 13.0 | 464,475 |
| CO-56 | 8.0 | 0.013 | 291.9 | 0.00330 | CO-203 | 1,238.21 | 7.69 | CO-204 | 1,237.25 | 7.94 | 12,441 | 0.87 | 3.0 | 409,101 | 11.5 | 448,636 |
| CO-57 | 8.0 | 0.013 | 168.3 | 0.00504 | CO-226 | 1,237.88 | 6.00 | CO-227 | 1,237.03 | 6.00 | 4,394 | 0.73 | 0.9 | 505,687 | 6.4 | 554,556 |
| CO-58 | 8.0 | 0.013 | 268.0 | 0.00574 | CO-227 | 1,236.93 | 6.10 | CO-228 | 1,235.39 | 7.21 | 8,788 | 0.95 | 1.6 | 539,697 | 8.5 | 591,853 |
| CO-59 | 8.0 | 0.013 | 136.8 | 0.00889 | CO-222 | 1,238.49 | 6.00 | CO-223 | 1,237.28 | 6.00 | 4,394 | 0.89 | 0.7 | 671,410 | 5.5 | 736,294 |
| CO-60 | 8.0 | 0.013 | 220.0 | 0.00330 | CO-223 | 1,237.18 | 6.10 | CO-225 | 1,236.45 | 6.71 | 8,788 | 0.78 | 2.1 | 409,101 | 9.7 | 448,636 |
| CO-61 | 8.0 | 0.013 | 427.9 | 0.01346 | CO-216 | 1,238.46 | 6.16 | CO-217 | 1,232.70 | 10.83 | 4,554 | 1.05 | 0.6 | 826,282 | 5.1 | 906,132 |
| CO-62 | 8.0 | 0.013 | 252.2 | 0.00330 | CO-215 | 1,239.40 | 6.00 | CO-216 | 1,238.56 | 6.06 | 2,700 | 0.55 | 0.7 | 409,101 | 5.6 | 448,636 |
| CO-63 | 8.0 | 0.013 | 125.8 | 0.00330 | CO-201 | 1,239.53 | 6.10 | CO-202 | 1,239.12 | 6.43 | 8,047 | 0.77 | 2.0 | 409,101 | 9.3 | 448,636 |
| CO-64 | 8.0 | 0.013 | 443.0 | 0.00491 | CO-327 | 1,244.97 | 6.00 | CO-328 | 1,242.79 | 6.00 | 8,188 | 0.88 | 1.6 | 499,242 | 8.5 | 547,488 |
| CO-65 | 8.0 | 0.013 | 244.2 | 0.00330 | CO-328 | 1,242.69 | 6.10 | CO-329 | 1,241.89 | 6.91 | 16,377 | 0.94 | 4.0 | 409,101 | 13.1 | 448,636 |
| CO-66 | 8.0 | 0.013 | 301.2 | 0.00330 | CO-329 | 1,241.79 | 7.01 | CO-330 | 1,240.79 | 7.18 | 24,565 | 1.06 | 6.0 | 409,101 | 15.9 | 448,636 |
| CO-67 | 8.0 | 0.013 | 278.8 | 0.01086 | CO-330 | 1,240.69 | 7.28 | CO-331 | 1,237.66 | 7.53 | 28,411 | 1.69 | 3.8 | 742,226 | 12.8 | 813,954 |
| CO-68 | 8.0 | 0.013 | 271.4 | 0.00330 | CO-326 | 1,238.56 | 7.24 | CO-331 | 1,237.66 | 7.53 | 71,382 | 1.45 | 17.4 | 409,101 | 27.0 | 448,636 |
| CO-69 | 8.0 | 0.013 | 217.9 | 0.00330 | CO-325 | 1,239.38 | 7.80 | CO-326 | 1,238.66 | 7.14 | 42,752 | 1.25 | 10.5 | 409,101 | 20.9 | 448,636 |
| CO-70 | 8.0 | 0.013 | 200.2 | 0.05237 | CO-331 | 1,237.56 | 7.63 | CO-332 | 1,227.08 | 17.75 | 95,647 | 4.21 | 5.9 | 1,629,787 | 15.7 | 1,787,287 |
| CO-71 | 8.0 | 0.013 | 210.0 | 0.00330 | CO-314 | 1,227.77 | 17.34 | CO-332 | 1,227.08 | 17.75 | 300,096 | 2.13 | 73.4 | 409,101 | 59.8 | 448,636 |
| CO-72 | 10.0 | 0.013 | 216.7 | 0.00671 | CO-332 | 1,226.81 | 17.85 | CO-333 | 1,225.36 | 18.70 | 372,007 | 2.93 | 35.2 | 1,057,910 | 39.0 | 1,160,144 |
| CO-73 | 8.0 | 0.013 | 338.2 | 0.00330 | CO-324 | 1,240.59 | 7.06 | CO-325 | 1,239.48 | 7.70 | 39,187 | 1.22 | 9.6 | 409,101 | 20.0 | 448,636 |
| CO-74 | 8.0 | 0.013 | 322.1 | 0.00503 | CO-316 | 1,245.17 | 6.00 | CO-317 | 1,243.55 | 6.41 | 0 | 0.00 | 0.0 | 505,011 | (N/A) | 553,815 |
| CO-75 | 8.0 | 0.013 | 239.1 | 0.00330 | CO-317 | 1,243.45 | 6.51 | CO-318 | 1,242.66 | 7.79 | 16,377 | 0.94 | 4.0 | 409,101 | 13.1 | 448,636 |
| CO-76 | 8.0 | 0.013 | 277.1 | 0.00330 | CO-318 | 1,242.56 | 7.89 | CO-319 | 1,241.64 | 7.34 | 24,565 | 1.06 | 6.0 | 409,101 | 15.9 | 448,636 |
| CO-77 | 8.0 | 0.013 | 341.9 | 0.00843 | CO-319 | 1,241.54 | 7.44 | CO-326 | 1,238.66 | 7.14 | 28,411 | 1.55 | 4.3 | 653,971 | 13.6 | 717,169 |
| CO-78 | 8.0 | 0.013 | 230.6 | 0.00330 | CO-315 | 1,244.31 | 6.00 | CO-317 | 1,243.55 | 6.41 | 8,188 | 0.77 | 2.0 | 409,101 | 9.4 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-79 | 8.0 | 0.013 | 408.5 | 0.01368 | CO-211 | 1,241.92 | 6.00 | CO-212 | 1,236.33 | 9.83 | 8,047 | 1.24 | 1.0 | 833,053 | 6.7 | 913,558 |
| CO-80 | 8.0 | 0.013 | 423.2 | 0.00330 | CO-212 | 1,236.23 | 9.93 | CO-213 | 1,234.84 | 10.49 | 34,901 | 1.18 | 8.5 | 409,101 | 18.9 | 448,636 |
| CO-81 | 8.0 | 0.013 | 295.1 | 0.00330 | CO-213 | 1,234.74 | 10.59 | CO-214 | 1,233.76 | 10.08 | 41,881 | 1.25 | 10.2 | 409,101 | 20.6 | 448,636 |
| CO-82 | 8.0 | 0.013 | 291.2 | 0.00330 | CO-214 | 1,233.66 | 10.18 | CO-217 | 1,232.70 | 10.83 | 58,020 | 1.37 | 14.2 | 409,101 | 24.3 | 448,636 |
| CO-83 | 8.0 | 0.013 | 346.1 | 0.00348 | CO-206 | 1,239.84 | 6.00 | CO-207 | 1,238.64 | 6.00 | 8,047 | 0.77 | 1.9 | 419,865 | 9.2 | 460,440 |
| CO-84 | 8.0 | 0.013 | 334.6 | 0.01426 | CO-207 | 1,238.54 | 6.10 | CO-214 | 1,233.76 | 10.08 | 16,095 | 1.57 | 1.9 | 850,525 | 9.1 | 932,718 |
| CO-85 | 8.0 | 0.013 | 272.6 | 0.00330 | CO-200 | 1,240.53 | 6.00 | CO-201 | 1,239.63 | 6.00 | 8,047 | 0.77 | 2.0 | 409,130 | 9.3 | 448,667 |
| CO-86 | 8.0 | 0.013 | 507.9 | 0.00330 | CO-209 | 1,239.22 | 6.00 | CO-210 | 1,237.54 | 9.45 | 8,047 | 0.77 | 2.0 | 409,101 | 9.3 | 448,636 |
| CO-87 | 8.0 | 0.013 | 335.8 | 0.00330 | CO-210 | 1,237.44 | 9.55 | CO-212 | 1,236.33 | 9.83 | 24,142 | 1.06 | 5.9 | 409,101 | 15.8 | 448,636 |
| CO-88 | 8.0 | 0.013 | 450.5 | 0.00977 | CO-208 | 1,241.94 | 6.00 | CO-210 | 1,237.54 | 9.45 | 8,047 | 1.11 | 1.1 | 703,823 | 7.2 | 771,839 |
| CO-89 | 15.0 | 0.013 | 500.0 | 0.00140 | CO-233 | 1,225.64 | 17.46 | CO-333 | 1,224.94 | 18.70 | 945,994 | 2.06 | 66.4 | 1,424,430 | 56.2 | 1,562,085 |
| CO-90 | 15.0 | 0.013 | 502.0 | 0.00140 | CO-232 | 1,226.44 | 13.95 | CO-233 | 1,225.74 | 17.36 | 945,994 | 2.06 | 66.4 | 1,424,430 | 56.2 | 1,562,085 |
| CO-91 | 8.0 | 0.013 | 500.0 | 0.00342 | CO-307 | 1,246.31 | 6.00 | CO-308 | 1,244.60 | 6.00 | 12,330 | 0.88 | 3.0 | 416,394 | 11.3 | 456,633 |
| CO-92 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-308 | 1,244.50 | 6.10 | CO-309 | 1,242.85 | 6.22 | 24,659 | 1.07 | 6.0 | 409,101 | 15.9 | 448,636 |
| CO-93 | 8.0 | 0.013 | 244.2 | 0.04183 | CO-309 | 1,242.75 | 6.32 | CO-310 | 1,232.54 | 15.58 | 32,085 | 2.81 | 2.2 | 1,456,569 | 9.8 | 1,597,330 |
| CO-94 | 8.0 | 0.013 | 333.1 | 0.00330 | CO-310 | 1,232.44 | 15.68 | CO-311 | 1,231.34 | 16.79 | 280,101 | 2.10 | 68.5 | 409,101 | 57.2 | 448,636 |
| CO-95 | 8.0 | 0.013 | 391.4 | 0.00330 | CO-311 | 1,231.24 | 16.89 | CO-312 | 1,229.95 | 17.72 | 300,096 | 2.13 | 73.4 | 409,101 | 59.8 | 448,636 |
| CO-96 | 8.0 | 0.013 | 274.7 | 0.00330 | CO-312 | 1,229.85 | 17.82 | CO-313 | 1,228.94 | 17.25 | 300,096 | 2.13 | 73.4 | 409,101 | 59.8 | 448,636 |
| CO-97 | 8.0 | 0.013 | 487.0 | 0.00330 | CO-320 | 1,246.00 | 6.00 | CO-321 | 1,244.39 | 8.08 | 12,330 | 0.87 | 3.0 | 409,101 | 11.4 | 448,636 |
| CO-98 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-321 | 1,244.29 | 8.18 | CO-322 | 1,242.64 | 7.43 | 24,659 | 1.07 | 6.0 | 409,101 | 15.9 | 448,636 |
| CO-99 | 8.0 | 0.013 | 476.9 | 0.00330 | CO-322 | 1,242.54 | 7.53 | CO-323 | 1,240.97 | 6.84 | 32,085 | 1.15 | 7.8 | 409,101 | 18.1 | 448,636 |
| CO-100 | 8.0 | 0.013 | 52.1 | 0.00330 | CO-323 | 1,240.87 | 6.94 | CO-324 | 1,240.69 | 6.96 | 32,085 | 1.15 | 7.8 | 409,101 | 18.1 | 448,636 |
| CO-101 | 8.0 | 0.013 | 500.0 | 0.00344 | CO-234 | 1,245.88 | 6.00 | CO-235 | 1,244.16 | 6.00 | 12,330 | 0.88 | 3.0 | 417,671 | 11.3 | 458,034 |
| CO-102 | 8.0 | 0.013 | 500.0 | 0.00637 | CO-235 | 1,244.06 | 6.10 | CO-236 | 1,240.88 | 7.39 | 24,659 | 1.34 | 4.3 | 568,380 | 13.6 | 623,307 |
| CO-103 | 8.0 | 0.013 | 135.2 | 0.06980 | CO-236 | 1,240.78 | 7.49 | CO-311 | 1,231.34 | 16.79 | 32,085 | 3.36 | 1.7 | 1,881,488 | 8.7 | 2,063,312 |
| CO-104 | 8.0 | 0.013 | 325.4 | 0.00330 | CO-303 | 1,236.70 | 14.68 | CO-304 | 1,235.63 | 14.74 | 136,427 | 1.75 | 33.3 | 409,101 | 37.8 | 448,636 |
| CO-105 | 8.0 | 0.013 | 296.2 | 0.00395 | CO-304 | 1,235.53 | 14.84 | CO-305 | 1,234.36 | 15.19 | 136,427 | 1.86 | 30.5 | 447,367 | 36.1 | 490,600 |
| CO-106 | 8.0 | 0.013 | 322.5 | 0.00330 | CO-305 | 1,234.26 | 15.29 | CO-306 | 1,233.19 | 16.07 | 259,939 | 2.06 | 63.5 | 409,101 | 54.6 | 448,636 |
| CO-107 | 8.0 | 0.013 | 168.4 | 0.00330 | CO-306 | 1,233.09 | 16.17 | CO-310 | 1,232.54 | 15.58 | 259,939 | 2.06 | 63.5 | 409,101 | 54.6 | 448,636 |
| CO-108 | 8.0 | 0.013 | 241.4 | 0.00785 | CO-263 | 1,248.08 | 6.00 | CO-264 | 1,246.19 | 7.24 | 9,780 | 1.10 | 1.6 | 630,812 | 8.3 | 691,773 |
| CO-109 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-264 | 1,246.09 | 7.34 | CO-265 | 1,244.44 | 7.19 | 25,449 | 1.08 | 6.2 | 409,101 | 16.2 | 448,636 |
| CO-110 | 8.0 | 0.013 | 366.6 | 0.00330 | CO-265 | 1,244.34 | 7.29 | CO-266 | 1,243.13 | 7.49 | 33,933 | 1.17 | 8.3 | 409,101 | 18.6 | 448,636 |
| CO-111 | 8.0 | 0.013 | 75.5 | 0.00330 | CO-266 | 1,243.03 | 7.59 | CO-267 | 1,242.78 | 7.72 | 42,416 | 1.25 | 10.4 | 409,101 | 20.8 | 448,636 |
| CO-112 | 8.0 | 0.013 | 151.0 | 0.00330 | CO-267 | 1,242.68 | 7.82 | CO-268 | 1,242.18 | 8.08 | 66,622 | 1.43 | 16.3 | 409,101 | 26.0 | 448,636 |
| CO-113 | 8.0 | 0.013 | 195.5 | 0.03948 | CO-268 | 1,242.08 | 8.18 | CO-305 | 1,234.36 | 15.19 | 78,456 | 3.60 | 5.5 | 1,415,048 | 15.3 | 1,551,796 |
| CO-114 | 8.0 | 0.013 | 244.9 | 0.00330 | CO-262 | 1,246.99 | 6.00 | CO-264 | 1,246.19 | 7.24 | 9,780 | 0.81 | 2.4 | 409,101 | 10.2 | 448,636 |
| CO-115 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-255 | 1,247.81 | 6.00 | CO-256 | 1,246.16 | 6.20 | 9,780 | 0.81 | 2.4 | 409,101 | 10.2 | 448,636 |
| CO-116 | 8.0 | 0.013 | 500.0 | 0.00406 | CO-256 | 1,246.06 | 6.30 | CO-257 | 1,244.03 | 6.00 | 19,560 | 1.07 | 4.3 | 453,747 | 13.5 | 497,596 |
| CO-117 | 8.0 | 0.013 | 43.5 | 0.00330 | CO-257 | 1,243.93 | 6.10 | CO-258 | 1,243.79 | 6.70 | 19,560 | 1.00 | 4.8 | 409,101 | 14.2 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|--------------------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-118 | 8.0 | 0.013 | 128.2 | 0.01177 | CO-258 | 1,243.69 | 6.80 | CO-268 | 1,242.18 | 8.08 | 19,560 | 1.55 | 2.5 | 772,586 | 10.5 | 847,248 |
| CO-119 | 8.0 | 0.013 | 500.0 | 0.00401 | CO-259 | 1,248.09 | 6.00 | CO-260 | 1,246.09 | 6.00 | 9,780 | 0.86 | 2.2 | 450,694 | 9.8 | 494,248 |
| CO-120 | 8.0 | 0.013 | 378.6 | 0.00330 | CO-260 | 1,245.99 | 6.10 | CO-261 | 1,244.74 | 6.18 | 19,560 | 1.00 | 4.8 | 409,101 | 14.2 | 448,636 |
| CO-121 | 8.0 | 0.013 | 271.4 | 0.00686 | CO-261 | 1,244.64 | 6.28 | CO-267 | 1,242.78 | 7.72 | 25,449 | 1.39 | 4.3 | 589,843 | 13.5 | 646,845 |
| CO-122 | 8.0 | 0.013 | 214.2 | 0.00330 | CO-296 | 1,251.94 | 6.00 | CO-297 | 1,251.24 | 7.81 | 6,474 | 0.72 | 1.6 | 409,101 | 8.4 | 448,636 |
| CO-123 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-297 | 1,251.14 | 7.91 | CO-298 | 1,249.49 | 7.49 | 12,948 | 0.88 | 3.2 | 409,101 | 11.7 | 448,636 |
| CO-124 | 8.0 | 0.013 | 282.3 | 0.00330 | CO-298 | 1,249.39 | 7.59 | CO-299 | 1,248.46 | 7.37 | 19,422 | 0.99 | 4.7 | 409,101 | 14.2 | 448,636 |
| CO-125 | 8.0 | 0.013 | 295.3 | 0.00330 | CO-299 | 1,248.36 | 7.47 | CO-300 | 1,247.38 | 7.47 | 25,896 | 1.08 | 6.3 | 409,101 | 16.3 | 448,636 |
| CO-126 | 8.0 | 0.013 | 364.6 | 0.00520 | CO-300 | 1,247.28 | 7.57 | CO-301 | 1,245.39 | 8.05 | 39,310 | 1.44 | 7.7 | 513,537 | 17.9 | 563,164 |
| CO-127 | 8.0 | 0.013 | 208.7 | 0.03388 | CO-302 | 1,243.87 | 8.18 | CO-303 | 1,236.80 | 14.58 | 68,604 | 3.27 | 5.2 | 1,310,798 | 14.9 | 1,437,471 |
| CO-128 | 8.0 | 0.013 | 500.0 | 0.00405 | CO-294 | 1,252.38 | 6.00 | CO-295 | 1,250.35 | 6.00 | 6,474 | 0.77 | 1.4 | 453,310 | 8.0 | 497,117 |
| CO-129 | 8.0 | 0.013 | 330.0 | 0.00869 | CO-295 | 1,250.25 | 6.10 | CO-300 | 1,247.38 | 7.47 | 12,948 | 1.23 | 1.9 | 664,054 | 9.3 | 728,227 |
| CO-130 | 8.0 | 0.013 | 303.9 | 0.00330 | CO-289 | 1,250.29 | 6.00 | CO-290 | 1,249.28 | 7.58 | 6,474 | 0.72 | 1.6 | 409,101 | 8.4 | 448,636 |
| CO-131 | 8.0 | 0.013 | 294.5 | 0.00600 | CO-290 | 1,249.18 | 7.68 | CO-291 | 1,247.42 | 8.30 | 12,948 | 1.08 | 2.3 | 551,551 | 10.1 | 604,852 |
| CO-132 | 8.0 | 0.013 | 203.4 | 0.00330 | CO-291 | 1,247.32 | 8.40 | CO-292 | 1,246.64 | 8.16 | 25,896 | 1.08 | 6.3 | 409,101 | 16.3 | 448,636 |
| CO-133 | 8.0 | 0.013 | 152.2 | 0.00330 | CO-292 | 1,246.54 | 8.26 | CO-293 | 1,246.04 | 7.99 | 25,896 | 1.08 | 6.3 | 409,101 | 16.3 | 448,636 |
| CO-134 | 8.0 | 0.013 | 168.6 | 0.00330 | CO-293 | 1,245.94 | 8.09 | CO-301 | 1,245.39 | 8.05 | 28,078 | 1.11 | 6.9 | 409,101 | 17.0 | 448,636 |
| CO-135 | 8.0 | 0.013 | 398.1 | 0.00330 | CO-301 | 1,245.29 | 8.15 | CO-302 | 1,243.97 | 8.08 | 63,704 | 1.41 | 15.6 | 409,101 | 25.5 | 448,636 |
| CO-136 | 8.0 | 0.013 | 346.5 | 0.00330 | CO-288 | 1,248.56 | 6.00 | CO-291 | 1,247.42 | 8.30 | 6,474 | 0.72 | 1.6 | 409,101 | 8.4 | 448,636 |
| CO-137 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-124 | 1,238.50 | 6.00 | CO-125 | 1,236.85 | 7.11 | 7,130 | 0.74 | 1.7 | 409,101 | 8.8 | 448,636 |
| CO-138 | 8.0 | 0.013 | 324.5 | 0.02503 | CO-125 | 1,236.75 | 7.21 | CO-150 | 1,228.63 | 14.94 | 14,259 | 1.83 | 1.3 | 1,126,787 | 7.6 | 1,235,678 |
| CO-139 | 10.0 | 0.013 | 500.0 | 0.00240 | CO-150 | 1,228.36 | 15.04 | CO-151 | 1,227.16 | 15.02 | 517,608 | 2.16 | 81.8 | 632,566 | 64.4 | 693,696 |
| CO-140 | 10.0 | 0.013 | 500.0 | 0.00240 | CO-151 | 1,227.06 | 15.12 | CO-152 | 1,225.86 | 14.50 | 517,608 | 2.16 | 81.8 | 632,566 | 64.4 | 693,696 |
| CO-141 | 12.0 | 0.013 | 95.5 | 0.00190 | CO-154 | 1,212.72 | 26.07 | O-2 - Lift Station | 1,212.53 | 26.51 | 812,488 | 2.20 | 88.8 | 915,224 | 68.2 | 1,003,669 |
| CO-142 | 10.0 | 0.013 | 263.0 | 0.02395 | CO-152 | 1,225.76 | 14.60 | CO-153 | 1,219.47 | 19.78 | 517,608 | 5.09 | 25.9 | 1,998,122 | 33.1 | 2,191,217 |
| CO-143 | 10.0 | 0.013 | 124.6 | 0.05121 | CO-153 | 1,219.37 | 19.88 | CO-154 | 1,212.98 | 25.97 | 554,217 | 6.81 | 19.0 | 2,921,984 | 28.1 | 3,204,359 |
| CO-144 | 8.0 | 0.013 | 465.8 | 0.00684 | CO-87 | 1,236.54 | 6.00 | CO-88 | 1,233.36 | 8.38 | 7,130 | 0.94 | 1.2 | 588,937 | 7.4 | 645,851 |
| CO-145 | 8.0 | 0.013 | 281.9 | 0.00330 | CO-88 | 1,233.26 | 8.48 | CO-89 | 1,232.32 | 8.85 | 21,389 | 1.02 | 5.2 | 409,101 | 14.9 | 448,636 |
| CO-146 | 8.0 | 0.013 | 309.7 | 0.00330 | CO-89 | 1,232.22 | 8.95 | CO-90 | 1,231.20 | 8.87 | 57,115 | 1.36 | 14.0 | 409,101 | 24.1 | 448,636 |
| CO-147 | 8.0 | 0.013 | 218.0 | 0.05262 | CO-90 | 1,231.10 | 8.97 | CO-153 | 1,219.63 | 19.78 | 57,115 | 3.63 | 3.5 | 1,633,616 | 12.2 | 1,791,486 |
| CO-148 | 8.0 | 0.013 | 391.5 | 0.00330 | CO-86 | 1,234.65 | 6.00 | CO-88 | 1,233.36 | 8.38 | 7,130 | 0.74 | 1.7 | 409,101 | 8.8 | 448,636 |
| CO-149 | 8.0 | 0.013 | 441.7 | 0.00330 | CO-83 | 1,236.01 | 6.00 | CO-84 | 1,234.55 | 6.87 | 7,130 | 0.74 | 1.7 | 409,101 | 8.8 | 448,636 |
| CO-150 | 8.0 | 0.013 | 187.8 | 0.00330 | CO-84 | 1,234.45 | 6.97 | CO-85 | 1,233.83 | 8.19 | 14,259 | 0.91 | 3.5 | 409,101 | 12.2 | 448,636 |
| CO-151 | 8.0 | 0.013 | 297.9 | 0.00472 | CO-85 | 1,233.73 | 8.29 | CO-89 | 1,232.32 | 8.85 | 37,105 | 1.37 | 7.6 | 489,450 | 17.8 | 536,750 |
| CO-152 | 8.0 | 0.013 | 468.3 | 0.00330 | CO-80 | 1,238.84 | 6.00 | CO-81 | 1,237.29 | 6.30 | 7,130 | 0.74 | 1.7 | 409,101 | 8.8 | 448,636 |
| CO-153 | 8.0 | 0.013 | 161.2 | 0.00330 | CO-81 | 1,237.19 | 6.40 | CO-82 | 1,236.66 | 6.85 | 14,259 | 0.91 | 3.5 | 409,101 | 12.2 | 448,636 |
| CO-154 | 8.0 | 0.013 | 291.8 | 0.00934 | CO-82 | 1,236.56 | 6.95 | CO-85 | 1,233.83 | 8.19 | 21,389 | 1.47 | 3.1 | 688,421 | 11.6 | 754,949 |
| CO-155 | 8.0 | 0.013 | 375.6 | 0.00330 | CO-249 | 1,240.33 | 6.00 | CO-250 | 1,239.09 | 6.93 | 6,478 | 0.72 | 1.6 | 409,101 | 8.4 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-156 | 8.0 | 0.013 | 274.0 | 0.00330 | CO-250 | 1,238.99 | 7.03 | CO-251 | 1,238.09 | 9.22 | 12,955 | 0.88 | 3.2 | 409,101 | 11.7 | 448,636 |
| CO-157 | 8.0 | 0.013 | 286.6 | 0.00330 | CO-251 | 1,237.99 | 9.32 | CO-252 | 1,237.04 | 11.20 | 28,094 | 1.11 | 6.9 | 409,101 | 17.0 | 448,636 |
| CO-158 | 8.0 | 0.013 | 326.0 | 0.00330 | CO-252 | 1,236.94 | 11.30 | CO-253 | 1,235.87 | 12.66 | 44,950 | 1.27 | 11.0 | 409,101 | 21.4 | 448,636 |
| CO-159 | 8.0 | 0.013 | 190.5 | 0.00330 | CO-253 | 1,235.77 | 12.76 | CO-254 | 1,235.14 | 13.70 | 46,704 | 1.29 | 11.4 | 409,101 | 21.8 | 448,636 |
| CO-160 | 8.0 | 0.013 | 206.6 | 0.00330 | CO-254 | 1,235.04 | 13.80 | CO-305 | 1,234.36 | 15.19 | 80,309 | 1.51 | 19.6 | 409,101 | 28.6 | 448,636 |
| CO-161 | 8.0 | 0.013 | 259.7 | 0.00330 | CO-240 | 1,241.78 | 6.00 | CO-241 | 1,240.92 | 6.37 | 6,478 | 0.72 | 1.6 | 409,101 | 8.4 | 448,636 |
| CO-162 | 8.0 | 0.013 | 301.8 | 0.00330 | CO-241 | 1,240.82 | 6.47 | CO-242 | 1,239.82 | 8.58 | 12,955 | 0.88 | 3.2 | 409,101 | 11.7 | 448,636 |
| CO-163 | 8.0 | 0.013 | 311.6 | 0.00330 | CO-242 | 1,239.72 | 8.68 | CO-243 | 1,238.70 | 10.84 | 19,433 | 0.99 | 4.8 | 409,101 | 14.2 | 448,636 |
| CO-164 | 8.0 | 0.013 | 212.6 | 0.00330 | CO-243 | 1,238.60 | 10.94 | CO-244 | 1,237.89 | 11.34 | 25,911 | 1.08 | 6.3 | 409,101 | 16.3 | 448,636 |
| CO-165 | 8.0 | 0.013 | 136.6 | 0.01943 | CO-244 | 1,237.79 | 11.44 | CO-254 | 1,235.14 | 13.70 | 44,950 | 2.37 | 4.5 | 992,729 | 13.9 | 1,088,665 |
| CO-166 | 8.0 | 0.013 | 129.4 | 0.00330 | CO-245 | 1,242.71 | 6.00 | CO-246 | 1,242.29 | 6.02 | 6,478 | 0.72 | 1.6 | 409,101 | 8.4 | 448,636 |
| CO-167 | 8.0 | 0.013 | 190.3 | 0.02702 | CO-246 | 1,242.19 | 6.12 | CO-252 | 1,237.04 | 11.20 | 12,955 | 1.82 | 1.1 | 1,170,561 | 7.1 | 1,283,682 |
| CO-168 | 8.0 | 0.013 | 144.8 | 0.00406 | CO-247 | 1,241.90 | 6.00 | CO-248 | 1,241.31 | 6.00 | 6,478 | 0.77 | 1.4 | 453,944 | 8.0 | 497,812 |
| CO-169 | 8.0 | 0.013 | 199.7 | 0.01563 | CO-248 | 1,241.21 | 6.10 | CO-251 | 1,238.09 | 9.22 | 12,955 | 1.52 | 1.5 | 890,224 | 8.0 | 976,253 |
| CO-170 | 8.0 | 0.013 | 396.8 | 0.00330 | CO-237 | 1,242.13 | 6.00 | CO-238 | 1,240.83 | 8.88 | 6,478 | 0.72 | 1.6 | 409,101 | 8.4 | 448,636 |
| CO-171 | 8.0 | 0.013 | 398.7 | 0.00330 | CO-238 | 1,240.73 | 8.98 | CO-239 | 1,239.41 | 10.78 | 12,955 | 0.88 | 3.2 | 409,101 | 11.7 | 448,636 |
| CO-172 | 8.0 | 0.013 | 278.4 | 0.00508 | CO-239 | 1,239.31 | 10.88 | CO-244 | 1,237.89 | 11.34 | 19,433 | 1.16 | 3.8 | 507,823 | 12.8 | 556,898 |
| CO-173 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-278 | 1,248.27 | 6.00 | CO-279 | 1,246.62 | 6.16 | 6,883 | 0.73 | 1.7 | 409,101 | 8.6 | 448,636 |
| CO-174 | 8.0 | 0.013 | 453.8 | 0.00385 | CO-279 | 1,246.52 | 6.26 | CO-280 | 1,244.77 | 6.00 | 13,765 | 0.94 | 3.1 | 441,988 | 11.6 | 484,701 |
| CO-175 | 8.0 | 0.013 | 288.9 | 0.00330 | CO-280 | 1,244.67 | 6.10 | CO-281 | 1,243.72 | 6.59 | 20,648 | 1.01 | 5.0 | 409,101 | 14.6 | 448,636 |
| CO-176 | 8.0 | 0.013 | 313.5 | 0.00330 | CO-281 | 1,243.62 | 6.69 | CO-282 | 1,242.58 | 8.91 | 23,880 | 1.06 | 5.8 | 409,101 | 15.7 | 448,636 |
| CO-177 | 8.0 | 0.013 | 313.9 | 0.00330 | CO-282 | 1,242.48 | 9.01 | CO-283 | 1,241.45 | 11.24 | 29,850 | 1.13 | 7.3 | 409,101 | 17.5 | 448,636 |
| CO-178 | 8.0 | 0.013 | 378.6 | 0.00378 | CO-283 | 1,241.35 | 11.34 | CO-284 | 1,239.91 | 11.61 | 41,789 | 1.31 | 9.5 | 437,784 | 19.9 | 480,091 |
| CO-179 | 8.0 | 0.013 | 277.3 | 0.00330 | CO-284 | 1,239.81 | 11.71 | CO-285 | 1,238.90 | 13.08 | 78,141 | 1.49 | 19.1 | 409,101 | 28.2 | 448,636 |
| CO-180 | 8.0 | 0.013 | 206.9 | 0.00330 | CO-285 | 1,238.80 | 13.18 | CO-286 | 1,238.12 | 13.41 | 80,309 | 1.51 | 19.6 | 409,101 | 28.6 | 448,636 |
| CO-181 | 8.0 | 0.013 | 130.0 | 0.00330 | CO-286 | 1,238.02 | 13.51 | CO-287 | 1,237.59 | 12.93 | 80,309 | 1.51 | 19.6 | 409,101 | 28.6 | 448,636 |
| CO-182 | 8.0 | 0.013 | 208.0 | 0.00330 | CO-287 | 1,237.49 | 13.03 | CO-303 | 1,236.80 | 14.58 | 80,309 | 1.51 | 19.6 | 409,101 | 28.6 | 448,636 |
| CO-183 | 8.0 | 0.013 | 227.1 | 0.00330 | CO-276 | 1,248.06 | 6.00 | CO-277 | 1,247.31 | 6.08 | 6,883 | 0.73 | 1.7 | 409,101 | 8.6 | 448,636 |
| CO-184 | 8.0 | 0.013 | 334.0 | 0.01727 | CO-277 | 1,247.21 | 6.18 | CO-283 | 1,241.45 | 11.24 | 13,765 | 1.60 | 1.5 | 935,767 | 8.1 | 1,026,198 |
| CO-185 | 8.0 | 0.013 | 193.0 | 0.02519 | CO-275 | 1,244.78 | 6.00 | CO-284 | 1,239.91 | 11.61 | 6,883 | 1.47 | 0.6 | 1,130,303 | 5.4 | 1,239,534 |
| CO-186 | 8.0 | 0.013 | 129.0 | 0.00330 | CO-271 | 1,242.69 | 6.00 | CO-272 | 1,242.26 | 7.01 | 6,883 | 0.73 | 1.7 | 409,101 | 8.6 | 448,636 |
| CO-187 | 8.0 | 0.013 | 195.6 | 0.00330 | CO-272 | 1,242.16 | 7.11 | CO-273 | 1,241.51 | 8.69 | 20,648 | 1.01 | 5.0 | 409,101 | 14.6 | 448,636 |
| CO-188 | 8.0 | 0.013 | 126.2 | 0.00330 | CO-273 | 1,241.41 | 8.79 | CO-274 | 1,241.00 | 9.69 | 23,880 | 1.06 | 5.8 | 409,101 | 15.7 | 448,636 |
| CO-189 | 8.0 | 0.013 | 298.0 | 0.00330 | CO-274 | 1,240.90 | 9.79 | CO-284 | 1,239.91 | 11.61 | 35,820 | 1.19 | 8.8 | 409,101 | 19.1 | 448,636 |
| CO-190 | 8.0 | 0.013 | 215.8 | 0.01570 | CO-269 | 1,244.39 | 6.00 | CO-274 | 1,241.00 | 9.69 | 6,883 | 1.25 | 0.8 | 892,445 | 6.0 | 978,689 |
| CO-191 | 8.0 | 0.013 | 201.9 | 0.00424 | CO-270 | 1,243.12 | 6.00 | CO-272 | 1,242.26 | 7.01 | 6,883 | 0.80 | 1.5 | 463,895 | 8.1 | 508,725 |
| CO-192 | 8.0 | 0.013 | 342.1 | 0.00330 | CO-113 | 1,242.96 | 8.67 | CO-114 | 1,241.83 | 7.73 | 11,294 | 0.84 | 2.8 | 409,101 | 10.9 | 448,636 |
| CO-193 | 8.0 | 0.013 | 342.4 | 0.00330 | CO-114 | 1,241.73 | 7.83 | CO-115 | 1,240.60 | 9.14 | 16,942 | 0.95 | 4.1 | 409,101 | 13.3 | 448,636 |
| CO-194 | 8.0 | 0.013 | 171.4 | 0.00330 | CO-115 | 1,240.50 | 9.24 | CO-116 | 1,239.94 | 9.77 | 22,589 | 1.04 | 5.5 | 409,101 | 15.3 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-195 | 8.0 | 0.013 | 143.2 | 0.00330 | CO-116 | 1,239.84 | 9.87 | CO-117 | 1,239.36 | 10.02 | 24,492 | 1.06 | 6.0 | 409,101 | 15.9 | 448,636 |
| CO-196 | 8.0 | 0.013 | 143.8 | 0.00811 | CO-117 | 1,239.26 | 10.12 | CO-118 | 1,238.10 | 9.67 | 39,187 | 1.68 | 6.1 | 641,425 | 16.0 | 703,411 |
| CO-197 | 8.0 | 0.013 | 192.7 | 0.00330 | CO-118 | 1,238.00 | 9.77 | CO-119 | 1,237.36 | 10.20 | 64,116 | 1.41 | 15.7 | 409,101 | 25.5 | 448,636 |
| CO-198 | 8.0 | 0.013 | 262.4 | 0.00330 | CO-119 | 1,237.26 | 10.30 | CO-120 | 1,236.40 | 11.21 | 64,116 | 1.41 | 15.7 | 409,101 | 25.5 | 448,636 |
| CO-199 | 8.0 | 0.013 | 236.1 | 0.00330 | CO-120 | 1,236.30 | 11.31 | CO-121 | 1,235.52 | 10.53 | 64,116 | 1.41 | 15.7 | 409,101 | 25.5 | 448,636 |
| CO-200 | 8.0 | 0.013 | 391.4 | 0.00330 | CO-121 | 1,235.42 | 10.63 | CO-122 | 1,234.13 | 10.96 | 64,116 | 1.41 | 15.7 | 409,101 | 25.5 | 448,636 |
| CO-201 | 8.0 | 0.013 | 265.1 | 0.00330 | CO-122 | 1,234.03 | 11.06 | CO-123 | 1,233.15 | 11.29 | 64,116 | 1.41 | 15.7 | 409,101 | 25.5 | 448,636 |
| CO-202 | 8.0 | 0.013 | 450.1 | 0.00982 | CO-123 | 1,233.05 | 11.39 | CO-150 | 1,228.63 | 14.94 | 110,223 | 2.43 | 15.6 | 705,754 | 25.5 | 773,956 |
| CO-203 | 8.0 | 0.013 | 223.7 | 0.00330 | CO-112 | 1,243.80 | 6.00 | CO-113 | 1,243.06 | 8.57 | 5,647 | 0.69 | 1.4 | 409,101 | 7.8 | 448,636 |
| CO-204 | 8.0 | 0.013 | 390.7 | 0.00330 | CO-109 | 1,243.94 | 6.00 | CO-110 | 1,242.65 | 7.16 | 5,647 | 0.69 | 1.4 | 409,101 | 7.8 | 448,636 |
| CO-205 | 8.0 | 0.013 | 307.1 | 0.00330 | CO-110 | 1,242.55 | 7.26 | CO-111 | 1,241.54 | 7.95 | 11,294 | 0.84 | 2.8 | 409,101 | 10.9 | 448,636 |
| CO-206 | 8.0 | 0.013 | 68.4 | 0.03031 | CO-111 | 1,241.44 | 8.05 | CO-117 | 1,239.36 | 10.02 | 11,294 | 1.82 | 0.9 | 1,239,902 | 6.5 | 1,359,724 |
| CO-207 | 8.0 | 0.013 | 99.1 | 0.00902 | CO-104 | 1,241.86 | 6.00 | CO-105 | 1,240.97 | 6.74 | 5,647 | 0.97 | 0.8 | 676,379 | 6.2 | 741,743 |
| CO-208 | 8.0 | 0.013 | 276.3 | 0.00330 | CO-105 | 1,240.87 | 6.84 | CO-106 | 1,239.95 | 7.63 | 16,942 | 0.95 | 4.1 | 409,101 | 13.3 | 448,636 |
| CO-209 | 8.0 | 0.013 | 245.6 | 0.00330 | CO-106 | 1,239.85 | 7.73 | CO-107 | 1,239.04 | 8.51 | 24,492 | 1.06 | 6.0 | 409,101 | 15.9 | 448,636 |
| CO-210 | 8.0 | 0.013 | 70.7 | 0.00330 | CO-107 | 1,238.94 | 8.61 | CO-108 | 1,238.71 | 8.84 | 24,492 | 1.06 | 6.0 | 409,101 | 15.9 | 448,636 |
| CO-211 | 8.0 | 0.013 | 155.4 | 0.00330 | CO-108 | 1,238.61 | 8.94 | CO-118 | 1,238.10 | 9.67 | 34,289 | 1.18 | 8.4 | 409,101 | 18.7 | 448,636 |
| CO-212 | 8.0 | 0.013 | 202.2 | 0.00789 | CO-102 | 1,241.55 | 6.00 | CO-106 | 1,239.95 | 7.63 | 5,647 | 0.92 | 0.9 | 632,441 | 6.4 | 693,559 |
| CO-213 | 8.0 | 0.013 | 263.0 | 0.01059 | CO-101 | 1,241.50 | 6.00 | CO-108 | 1,238.71 | 8.84 | 5,647 | 1.02 | 0.8 | 732,950 | 6.0 | 803,781 |
| CO-214 | 8.0 | 0.013 | 193.8 | 0.00330 | CO-103 | 1,241.61 | 6.00 | CO-105 | 1,240.97 | 6.74 | 5,647 | 0.69 | 1.4 | 409,101 | 7.8 | 448,636 |
| CO-215 | 15.0 | 0.013 | 277.6 | 0.00140 | CO-333 | 1,224.84 | 18.80 | CO-334 | 1,224.45 | 19.50 | 1,245,524 | 2.19 | 87.4 | 1,424,430 | 67.5 | 1,562,085 |
| CO-216 | 15.0 | 0.013 | 449.6 | 0.00140 | CO-334 | 1,224.35 | 19.60 | CO-335 | 1,223.72 | 23.38 | 1,245,524 | 2.19 | 87.4 | 1,424,430 | 67.5 | 1,562,085 |
| CO-217 | 15.0 | 0.013 | 394.0 | 0.00140 | CO-335 | 1,223.62 | 23.48 | OFF-MH-12 | 1,223.07 | 24.68 | 1,245,524 | 2.19 | 87.4 | 1,424,430 | 67.5 | 1,562,085 |
| CO-218 | 8.0 | 0.013 | 253.2 | 0.01417 | CO-35 | 1,227.33 | 6.00 | CO-36 | 1,223.74 | 9.76 | 5,473 | 1.12 | 0.6 | 847,751 | 5.5 | 929,677 |
| CO-219 | 8.0 | 0.013 | 291.2 | 0.00330 | CO-36 | 1,223.64 | 9.86 | CO-37 | 1,222.68 | 11.29 | 47,836 | 1.30 | 11.7 | 409,101 | 22.0 | 448,636 |
| CO-220 | 8.0 | 0.013 | 280.0 | 0.00330 | CO-37 | 1,222.58 | 11.39 | CO-38 | 1,221.66 | 12.86 | 61,768 | 1.40 | 15.1 | 409,101 | 25.1 | 448,636 |
| CO-221 | 8.0 | 0.013 | 270.9 | 0.00330 | CO-38 | 1,221.56 | 12.96 | CO-39 | 1,220.67 | 14.08 | 68,679 | 1.44 | 16.8 | 409,101 | 26.4 | 448,636 |
| CO-222 | 8.0 | 0.013 | 236.5 | 0.00330 | CO-39 | 1,220.57 | 14.18 | CO-40 | 1,219.78 | 15.49 | 75,589 | 1.48 | 18.5 | 409,101 | 27.7 | 448,636 |
| CO-223 | 8.0 | 0.013 | 213.1 | 0.00330 | CO-40 | 1,219.68 | 15.59 | CO-41 | 1,218.98 | 16.51 | 79,488 | 1.50 | 19.4 | 409,101 | 28.5 | 448,636 |
| CO-224 | 8.0 | 0.013 | 320.9 | 0.00330 | CO-41 | 1,218.88 | 16.61 | CO-42 | 1,217.82 | 18.14 | 83,480 | 1.52 | 20.4 | 409,101 | 29.2 | 448,636 |
| CO-225 | 8.0 | 0.013 | 200.7 | 0.00330 | CO-42 | 1,217.72 | 18.24 | CO-43 | 1,217.06 | 19.19 | 116,883 | 1.67 | 28.6 | 409,101 | 34.9 | 448,636 |
| CO-226 | 8.0 | 0.013 | 247.9 | 0.00330 | CO-43 | 1,216.96 | 19.29 | CO-44 | 1,216.14 | 21.20 | 184,771 | 1.89 | 45.2 | 409,101 | 44.7 | 448,636 |
| CO-227 | 8.0 | 0.013 | 273.7 | 0.00330 | CO-44 | 1,216.04 | 21.30 | CO-45 | 1,215.14 | 22.73 | 184,771 | 1.89 | 45.2 | 409,101 | 44.7 | 448,636 |
| CO-228 | 8.0 | 0.013 | 208.7 | 0.00330 | CO-45 | 1,215.04 | 22.83 | CO-79 | 1,214.35 | 23.92 | 184,771 | 1.89 | 45.2 | 409,101 | 44.7 | 448,636 |
| CO-229 | 8.0 | 0.013 | 333.4 | 0.00330 | CO-79 | 1,214.25 | 24.02 | CO-154 | 1,213.15 | 25.97 | 313,472 | 2.15 | 76.6 | 409,101 | 61.6 | 448,636 |
| CO-230 | 8.0 | 0.013 | 211.2 | 0.00330 | CO-23 | 1,228.81 | 6.00 | CO-24 | 1,228.11 | 6.40 | 5,473 | 0.67 | 1.3 | 409,101 | 7.8 | 448,636 |
| CO-231 | 8.0 | 0.013 | 256.4 | 0.00330 | CO-24 | 1,228.01 | 6.50 | CO-25 | 1,227.17 | 6.82 | 10,947 | 0.84 | 2.7 | 409,101 | 10.8 | 448,636 |
| CO-232 | 8.0 | 0.013 | 163.1 | 0.02689 | CO-25 | 1,227.07 | 6.92 | CO-37 | 1,222.68 | 11.29 | 16,420 | 1.98 | 1.4 | 1,167,864 | 7.9 | 1,280,725 |
| CO-233 | 8.0 | 0.013 | 254.1 | 0.03921 | CO-22 | 1,228.95 | 6.00 | CO-41 | 1,218.98 | 16.51 | 5,473 | 1.61 | 0.4 | 1,410,101 | 4.3 | 1,546,370 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-234 | 8.0 | 0.013 | 361.1 | 0.00330 | CO-29 | 1,229.00 | 6.00 | CO-30 | 1,227.81 | 6.61 | 7,963 | 0.76 | 1.9 | 409,101 | 9.3 | 448,636 |
| CO-235 | 8.0 | 0.013 | 319.6 | 0.00330 | CO-30 | 1,227.71 | 6.71 | CO-31 | 1,226.65 | 7.20 | 15,925 | 0.94 | 3.9 | 409,101 | 12.9 | 448,636 |
| CO-236 | 8.0 | 0.013 | 219.5 | 0.00330 | CO-31 | 1,226.55 | 7.30 | CO-32 | 1,225.83 | 8.17 | 21,399 | 1.02 | 5.2 | 409,101 | 14.9 | 448,636 |
| CO-237 | 8.0 | 0.013 | 171.0 | 0.00351 | CO-32 | 1,225.73 | 8.27 | CO-33 | 1,225.13 | 8.69 | 23,309 | 1.07 | 5.5 | 422,196 | 15.3 | 462,996 |
| CO-238 | 8.0 | 0.013 | 201.2 | 0.00330 | CO-33 | 1,225.03 | 8.79 | CO-34 | 1,224.36 | 9.27 | 37,552 | 1.21 | 9.2 | 409,101 | 19.6 | 448,636 |
| CO-239 | 8.0 | 0.013 | 156.9 | 0.00330 | CO-34 | 1,224.26 | 9.37 | CO-36 | 1,223.74 | 9.76 | 42,300 | 1.25 | 10.3 | 409,101 | 20.7 | 448,636 |
| CO-240 | 8.0 | 0.013 | 111.9 | 0.00330 | CO-26 | 1,227.86 | 6.00 | CO-27 | 1,227.49 | 6.15 | 0 | 0.00 | 0.0 | 409,101 | (N/A) | 448,636 |
| CO-241 | 8.0 | 0.013 | 369.8 | 0.00330 | CO-27 | 1,227.39 | 6.25 | CO-28 | 1,226.17 | 7.37 | 5,473 | 0.67 | 1.3 | 409,101 | 7.8 | 448,636 |
| CO-242 | 8.0 | 0.013 | 287.4 | 0.00330 | CO-28 | 1,226.07 | 7.47 | CO-33 | 1,225.13 | 8.69 | 10,947 | 0.84 | 2.7 | 409,101 | 10.8 | 448,636 |
| CO-243 | 8.0 | 0.013 | 397.2 | 0.00330 | CO-16 | 1,229.16 | 6.00 | CO-17 | 1,227.85 | 7.73 | 9,130 | 0.79 | 2.2 | 409,101 | 9.9 | 448,636 |
| CO-244 | 8.0 | 0.013 | 389.5 | 0.02548 | CO-17 | 1,227.75 | 7.83 | CO-42 | 1,217.82 | 18.14 | 18,259 | 2.00 | 1.6 | 1,136,682 | 8.4 | 1,246,529 |
| CO-245 | 8.0 | 0.013 | 310.1 | 0.00330 | CO-18 | 1,230.28 | 6.00 | CO-19 | 1,229.26 | 7.22 | 9,130 | 0.79 | 2.2 | 409,101 | 9.9 | 448,636 |
| CO-246 | 8.0 | 0.013 | 339.8 | 0.00330 | CO-19 | 1,229.16 | 7.32 | CO-20 | 1,228.04 | 8.61 | 18,259 | 0.97 | 4.5 | 409,101 | 13.8 | 448,636 |
| CO-247 | 8.0 | 0.013 | 244.2 | 0.00330 | CO-20 | 1,227.94 | 8.71 | CO-21 | 1,227.13 | 9.63 | 23,757 | 1.05 | 5.8 | 409,101 | 15.6 | 448,636 |
| CO-248 | 8.0 | 0.013 | 312.8 | 0.02944 | CO-21 | 1,227.03 | 9.73 | CO-42 | 1,217.82 | 18.14 | 31,676 | 2.47 | 2.6 | 1,221,911 | 10.6 | 1,339,995 |
| CO-249 | 8.0 | 0.013 | 220.3 | 0.00330 | CO-9 | 1,230.76 | 6.00 | CO-10 | 1,230.03 | 6.52 | 7,963 | 0.76 | 1.9 | 409,101 | 9.3 | 448,636 |
| CO-250 | 8.0 | 0.013 | 293.2 | 0.00330 | CO-10 | 1,229.93 | 6.62 | CO-11 | 1,228.96 | 6.96 | 15,925 | 0.94 | 3.9 | 409,101 | 12.9 | 448,636 |
| CO-251 | 8.0 | 0.013 | 351.6 | 0.00330 | CO-11 | 1,228.86 | 7.06 | CO-12 | 1,227.70 | 7.41 | 23,888 | 1.06 | 5.8 | 409,101 | 15.7 | 448,636 |
| CO-252 | 8.0 | 0.013 | 313.4 | 0.00330 | CO-12 | 1,227.60 | 7.51 | CO-13 | 1,226.57 | 8.29 | 27,627 | 1.10 | 6.8 | 409,101 | 16.8 | 448,636 |
| CO-253 | 8.0 | 0.013 | 286.6 | 0.00330 | CO-13 | 1,226.47 | 8.39 | CO-14 | 1,225.52 | 10.37 | 34,534 | 1.18 | 8.4 | 409,101 | 18.8 | 448,636 |
| CO-254 | 8.0 | 0.013 | 319.3 | 0.00330 | CO-14 | 1,225.42 | 10.47 | CO-15 | 1,224.37 | 12.33 | 51,031 | 1.32 | 12.5 | 409,101 | 22.8 | 448,636 |
| CO-255 | 8.0 | 0.013 | 198.2 | 0.03635 | CO-15 | 1,224.27 | 12.43 | CO-43 | 1,217.06 | 19.19 | 83,521 | 3.56 | 6.2 | 1,357,852 | 16.1 | 1,489,073 |
| CO-256 | 8.0 | 0.013 | 315.8 | 0.00330 | CO-6 | 1,231.28 | 6.00 | CO-7 | 1,230.23 | 6.49 | 7,963 | 0.76 | 1.9 | 409,101 | 9.3 | 448,636 |
| CO-257 | 8.0 | 0.013 | 363.6 | 0.00330 | CO-7 | 1,230.13 | 6.59 | CO-8 | 1,228.93 | 6.68 | 15,925 | 0.94 | 3.9 | 409,101 | 12.9 | 448,636 |
| CO-258 | 8.0 | 0.013 | 300.6 | 0.01103 | CO-8 | 1,228.83 | 6.78 | CO-14 | 1,225.52 | 10.37 | 23,888 | 1.61 | 3.2 | 747,800 | 11.7 | 820,066 |
| CO-259 | 8.0 | 0.013 | 468.7 | 0.00330 | CO-1 | 1,231.76 | 6.00 | CO-2 | 1,230.21 | 6.95 | 10,165 | 0.82 | 2.5 | 409,101 | 10.4 | 448,636 |
| CO-260 | 8.0 | 0.013 | 437.6 | 0.01312 | CO-2 | 1,230.11 | 7.05 | CO-15 | 1,224.37 | 12.33 | 20,330 | 1.63 | 2.5 | 815,701 | 10.4 | 894,529 |
| CO-261 | 8.0 | 0.013 | 365.9 | 0.00330 | CO-3 | 1,232.59 | 6.00 | CO-4 | 1,231.38 | 6.58 | 10,165 | 0.82 | 2.5 | 409,101 | 10.4 | 448,636 |
| CO-262 | 8.0 | 0.013 | 379.3 | 0.00330 | CO-4 | 1,231.28 | 6.68 | CO-5 | 1,230.03 | 7.34 | 20,330 | 1.00 | 5.0 | 409,101 | 14.5 | 448,636 |
| CO-263 | 8.0 | 0.013 | 315.2 | 0.01766 | CO-5 | 1,229.93 | 7.44 | CO-15 | 1,224.37 | 12.33 | 26,451 | 1.96 | 2.8 | 946,384 | 11.0 | 1,037,841 |
| CO-264 | 8.0 | 0.013 | 330.6 | 0.00330 | CO-91 | 1,240.79 | 6.00 | CO-92 | 1,239.70 | 6.78 | 7,906 | 0.76 | 1.9 | 409,101 | 9.2 | 448,636 |
| CO-265 | 8.0 | 0.013 | 260.6 | 0.00330 | CO-92 | 1,239.60 | 6.88 | CO-93 | 1,238.74 | 7.08 | 15,812 | 0.93 | 3.9 | 409,101 | 12.8 | 448,636 |
| CO-266 | 8.0 | 0.013 | 281.8 | 0.00330 | CO-93 | 1,238.64 | 7.18 | CO-96 | 1,237.71 | 7.60 | 23,718 | 1.05 | 5.8 | 409,101 | 15.6 | 448,636 |
| CO-267 | 8.0 | 0.013 | 196.4 | 0.00449 | CO-96 | 1,237.61 | 7.70 | CO-100 | 1,236.73 | 7.94 | 41,147 | 1.38 | 8.6 | 477,032 | 18.9 | 523,132 |
| CO-268 | 8.0 | 0.013 | 198.8 | 0.01752 | CO-100 | 1,236.63 | 8.04 | CO-123 | 1,233.15 | 11.29 | 57,002 | 2.46 | 6.0 | 942,561 | 15.9 | 1,033,649 |
| CO-269 | 8.0 | 0.013 | 316.6 | 0.00330 | CO-94 | 1,240.52 | 6.00 | CO-95 | 1,239.48 | 6.15 | 7,906 | 0.76 | 1.9 | 409,101 | 9.2 | 448,636 |
| CO-270 | 8.0 | 0.013 | 223.3 | 0.00744 | CO-95 | 1,239.38 | 6.25 | CO-96 | 1,237.71 | 7.60 | 15,812 | 1.24 | 2.6 | 614,424 | 10.6 | 673,800 |
| CO-271 | 8.0 | 0.013 | 343.3 | 0.00330 | CO-97 | 1,240.17 | 6.00 | CO-98 | 1,239.04 | 6.69 | 7,906 | 0.76 | 1.9 | 409,101 | 9.2 | 448,636 |
| CO-272 | 8.0 | 0.013 | 481.7 | 0.00330 | CO-98 | 1,238.94 | 6.79 | CO-99 | 1,237.35 | 7.30 | 15,812 | 0.93 | 3.9 | 409,101 | 12.8 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|--------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-273 | 8.0 | 0.013 | 157.5 | 0.00330 | CO-99 | 1,237.25 | 7.40 | CO-100 | 1,236.73 | 7.94 | 23,718 | 1.05 | 5.8 | 409,101 | 15.6 | 448,636 |
| CO-274 | 8.0 | 0.013 | 257.6 | 0.00330 | CO-77 | 1,216.97 | 20.51 | CO-78 | 1,216.12 | 22.18 | 156,142 | 1.81 | 38.2 | 409,101 | 40.7 | 448,636 |
| CO-275 | 8.0 | 0.013 | 324.7 | 0.00330 | CO-77 | 1,217.07 | 20.41 | CO-76 | 1,218.14 | 19.14 | 144,493 | 1.77 | 35.3 | 409,101 | 39.0 | 448,636 |
| CO-276 | 8.0 | 0.013 | 300.5 | 0.00330 | CO-76 | 1,218.24 | 19.04 | CO-75 | 1,219.23 | 17.76 | 140,961 | 1.76 | 34.5 | 409,101 | 38.5 | 448,636 |
| CO-277 | 8.0 | 0.013 | 259.5 | 0.00330 | CO-75 | 1,219.33 | 17.66 | CO-74 | 1,220.19 | 16.64 | 135,040 | 1.74 | 33.0 | 409,101 | 37.6 | 448,636 |
| CO-278 | 8.0 | 0.013 | 266.9 | 0.00330 | CO-74 | 1,220.29 | 16.54 | CO-73 | 1,221.17 | 16.05 | 129,119 | 1.72 | 31.6 | 409,101 | 36.7 | 448,636 |
| CO-279 | 8.0 | 0.013 | 222.8 | 0.00330 | CO-72 | 1,222.00 | 15.40 | CO-73 | 1,221.27 | 15.95 | 125,201 | 1.70 | 30.6 | 409,101 | 36.2 | 448,636 |
| CO-280 | 8.0 | 0.013 | 285.0 | 0.00330 | CO-72 | 1,222.10 | 15.30 | CO-71 | 1,223.04 | 14.66 | 113,167 | 1.66 | 27.7 | 409,101 | 34.3 | 448,636 |
| CO-281 | 8.0 | 0.013 | 372.5 | 0.00330 | CO-71 | 1,223.14 | 14.56 | CO-70 | 1,224.37 | 13.65 | 103,560 | 1.62 | 25.3 | 409,101 | 32.7 | 448,636 |
| CO-282 | 8.0 | 0.013 | 182.0 | 0.00330 | CO-70 | 1,224.47 | 13.55 | CO-69 | 1,225.07 | 13.48 | 94,088 | 1.57 | 23.0 | 409,101 | 31.1 | 448,636 |
| CO-283 | 8.0 | 0.013 | 220.0 | 0.00330 | CO-48 | 1,232.64 | 6.00 | CO-49 | 1,231.91 | 6.27 | 8,713 | 0.78 | 2.1 | 409,101 | 9.7 | 448,636 |
| CO-284 | 8.0 | 0.013 | 245.3 | 0.03532 | CO-49 | 1,231.81 | 6.37 | CO-71 | 1,223.14 | 14.56 | 8,713 | 1.78 | 0.7 | 1,338,401 | 5.5 | 1,467,742 |
| CO-285 | 8.0 | 0.013 | 260.1 | 0.00330 | CO-46 | 1,232.24 | 6.00 | CO-47 | 1,231.38 | 6.36 | 8,713 | 0.78 | 2.1 | 409,101 | 9.7 | 448,636 |
| CO-286 | 8.0 | 0.013 | 183.4 | 0.05004 | CO-47 | 1,231.28 | 6.46 | CO-72 | 1,222.10 | 15.30 | 8,713 | 2.01 | 0.5 | 1,593,000 | 5.1 | 1,746,945 |
| CO-287 | 8.0 | 0.013 | 208.3 | 0.00330 | CO-52 | 1,233.72 | 6.58 | CO-53 | 1,233.03 | 6.68 | 17,297 | 0.96 | 4.2 | 409,101 | 13.4 | 448,636 |
| CO-288 | 8.0 | 0.013 | 267.2 | 0.00695 | CO-53 | 1,232.93 | 6.78 | CO-54 | 1,231.07 | 7.81 | 26,009 | 1.41 | 4.4 | 593,679 | 13.6 | 651,051 |
| CO-289 | 8.0 | 0.013 | 73.0 | 0.06980 | CO-54 | 1,230.97 | 7.91 | CO-68 | 1,225.88 | 12.97 | 26,009 | 3.17 | 1.4 | 1,881,488 | 7.8 | 2,063,312 |
| CO-290 | 8.0 | 0.013 | 182.2 | 0.00330 | CO-68 | 1,225.78 | 13.07 | CO-69 | 1,225.17 | 13.38 | 94,088 | 1.57 | 23.0 | 409,101 | 31.1 | 448,636 |
| CO-291 | 8.0 | 0.013 | 434.6 | 0.00332 | CO-64 | 1,235.65 | 6.00 | CO-65 | 1,234.21 | 6.00 | 8,584 | 0.77 | 2.1 | 410,233 | 9.6 | 449,877 |
| CO-292 | 8.0 | 0.013 | 269.0 | 0.00330 | CO-65 | 1,234.11 | 6.10 | CO-66 | 1,233.22 | 6.60 | 17,167 | 0.96 | 4.2 | 409,101 | 13.4 | 448,636 |
| CO-293 | 8.0 | 0.013 | 147.7 | 0.04331 | CO-66 | 1,233.12 | 6.70 | CO-67 | 1,226.73 | 12.59 | 29,782 | 2.79 | 2.0 | 1,482,014 | 9.4 | 1,625,234 |
| CO-294 | 8.0 | 0.013 | 228.3 | 0.00330 | CO-67 | 1,226.63 | 12.69 | CO-68 | 1,225.88 | 12.97 | 77,965 | 1.49 | 19.1 | 409,101 | 28.2 | 448,636 |
| CO-295 | 8.0 | 0.013 | 451.9 | 0.00330 | CO-51 | 1,235.31 | 6.00 | CO-52 | 1,233.82 | 6.48 | 8,584 | 0.77 | 2.1 | 409,101 | 9.6 | 448,636 |
| CO-296 | 8.0 | 0.013 | 340.3 | 0.00434 | CO-63 | 1,234.70 | 6.00 | CO-66 | 1,233.22 | 6.60 | 8,584 | 0.86 | 1.8 | 468,993 | 9.0 | 514,316 |
| CO-297 | 10.0 | 0.013 | 406.6 | 0.00240 | CO-148 | 1,230.58 | 10.09 | CO-149 | 1,229.61 | 12.20 | 424,303 | 2.07 | 67.1 | 632,566 | 56.5 | 693,696 |
| CO-298 | 10.0 | 0.013 | 435.1 | 0.00240 | CO-149 | 1,229.51 | 12.30 | CO-150 | 1,228.46 | 14.94 | 428,843 | 2.07 | 67.8 | 632,566 | 56.9 | 693,696 |
| CO-299 | 8.0 | 0.013 | 357.3 | 0.00330 | CO-55 | 1,234.12 | 6.00 | CO-56 | 1,232.94 | 6.72 | 8,584 | 0.77 | 2.1 | 409,101 | 9.6 | 448,636 |
| CO-300 | 8.0 | 0.013 | 300.2 | 0.00330 | CO-56 | 1,232.84 | 6.82 | CO-57 | 1,231.85 | 7.46 | 17,167 | 0.96 | 4.2 | 409,101 | 13.4 | 448,636 |
| CO-301 | 8.0 | 0.013 | 271.3 | 0.00330 | CO-57 | 1,231.75 | 7.56 | CO-60 | 1,230.85 | 7.96 | 25,751 | 1.08 | 6.3 | 409,101 | 16.3 | 448,636 |
| CO-302 | 8.0 | 0.013 | 273.0 | 0.00330 | CO-60 | 1,230.75 | 8.06 | CO-61 | 1,229.85 | 8.43 | 44,673 | 1.27 | 10.9 | 409,101 | 21.3 | 448,636 |
| CO-303 | 8.0 | 0.013 | 500.0 | 0.00330 | CO-61 | 1,229.75 | 8.53 | CO-62 | 1,228.10 | 10.59 | 48,135 | 1.30 | 11.8 | 409,101 | 22.1 | 448,636 |
| CO-304 | 8.0 | 0.013 | 386.5 | 0.00330 | CO-62 | 1,228.00 | 10.69 | CO-67 | 1,226.73 | 12.59 | 55,012 | 1.35 | 13.4 | 409,101 | 23.6 | 448,636 |
| CO-305 | 8.0 | 0.013 | 300.0 | 0.00330 | CO-58 | 1,233.76 | 6.00 | CO-59 | 1,232.77 | 6.57 | 8,584 | 0.77 | 2.1 | 409,101 | 9.6 | 448,636 |
| CO-306 | 8.0 | 0.013 | 354.2 | 0.00513 | CO-59 | 1,232.67 | 6.67 | CO-60 | 1,230.85 | 7.96 | 17,167 | 1.12 | 3.4 | 509,892 | 12.0 | 559,168 |
| CO-307 | 10.0 | 0.013 | 202.3 | 0.00240 | CO-147 | 1,231.17 | 9.96 | CO-148 | 1,230.68 | 9.99 | 419,756 | 2.06 | 66.4 | 632,566 | 56.1 | 693,696 |
| CO-308 | 8.0 | 0.013 | 343.4 | 0.00330 | CO-143 | 1,239.40 | 6.00 | CO-144 | 1,238.27 | 6.32 | 79,504 | 1.50 | 19.4 | 409,101 | 28.5 | 448,636 |
| CO-309 | 8.0 | 0.013 | 307.9 | 0.01660 | CO-144 | 1,238.17 | 6.42 | CO-145 | 1,233.05 | 10.11 | 142,759 | 3.16 | 15.6 | 917,656 | 25.4 | 1,006,337 |
| CO-310 | 8.0 | 0.013 | 368.0 | 0.00403 | CO-142 | 1,234.54 | 7.70 | CO-145 | 1,233.05 | 10.11 | 78,456 | 1.60 | 17.4 | 451,980 | 26.9 | 495,659 |
| CO-311 | 8.0 | 0.013 | 299.1 | 0.00330 | CO-141 | 1,235.62 | 6.00 | CO-142 | 1,234.64 | 7.60 | 43,091 | 1.26 | 10.5 | 409,101 | 20.9 | 448,636 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|-----------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| CO-312 | 10.0 | 0.013 | 269.0 | 0.00240 | CO-145 | 1,232.79 | 10.21 | CO-146 | 1,232.14 | 9.76 | 419,756 | 2.06 | 66.4 | 632,566 | 56.1 | 693,696 |
| CO-313 | 10.0 | 0.013 | 322.3 | 0.00240 | CO-146 | 1,232.04 | 9.86 | CO-147 | 1,231.27 | 9.86 | 419,756 | 2.06 | 66.4 | 632,566 | 56.1 | 693,696 |
| CO-314 | 8.0 | 0.013 | 442.8 | 0.00330 | CO-133 | 1,243.43 | 6.00 | CO-134 | 1,241.97 | 6.02 | 37,350 | 1.20 | 9.1 | 409,101 | 19.5 | 448,636 |
| CO-315 | 8.0 | 0.013 | 331.7 | 0.00338 | CO-136 | 1,239.79 | 6.10 | CO-137 | 1,238.67 | 6.00 | 118,950 | 1.69 | 28.7 | 414,121 | 35.0 | 454,141 |
| CO-316 | 8.0 | 0.013 | 109.2 | 0.00342 | CO-137 | 1,238.57 | 6.10 | CO-139 | 1,238.20 | 6.00 | 143,929 | 1.80 | 34.5 | 416,682 | 38.5 | 456,949 |
| CO-317 | 8.0 | 0.013 | 65.9 | 0.06270 | CO-139 | 1,238.10 | 6.10 | CO-140 | 1,233.96 | 10.02 | 169,712 | 5.32 | 9.5 | 1,783,181 | 19.9 | 1,955,504 |
| CO-318 | 8.0 | 0.013 | 274.1 | 0.00330 | CO-134 | 1,241.87 | 6.12 | CO-135 | 1,240.96 | 6.01 | 65,185 | 1.42 | 15.9 | 409,101 | 25.8 | 448,636 |
| CO-319 | 8.0 | 0.013 | 265.9 | 0.00364 | CO-135 | 1,240.86 | 6.11 | CO-136 | 1,239.89 | 6.00 | 94,208 | 1.63 | 21.9 | 429,662 | 30.3 | 471,184 |
| CO-320 | 8.0 | 0.013 | 305.3 | 0.00330 | CO-126 | 1,241.69 | 6.00 | CO-127 | 1,240.69 | 6.97 | 10,717 | 0.83 | 2.6 | 409,101 | 10.7 | 448,636 |
| CO-321 | 8.0 | 0.013 | 547.3 | 0.00330 | CO-127 | 1,240.59 | 7.07 | CO-128 | 1,238.78 | 6.08 | 21,434 | 1.02 | 5.2 | 409,101 | 14.9 | 448,636 |
| CO-322 | 8.0 | 0.013 | 258.5 | 0.00330 | CO-128 | 1,238.68 | 6.18 | CO-129 | 1,237.83 | 6.28 | 32,151 | 1.15 | 7.9 | 409,101 | 18.1 | 448,636 |
| CO-323 | 8.0 | 0.013 | 371.7 | 0.00330 | CO-129 | 1,237.73 | 6.38 | CO-130 | 1,236.50 | 6.34 | 42,869 | 1.25 | 10.5 | 409,101 | 20.9 | 448,636 |
| CO-324 | 8.0 | 0.013 | 236.8 | 0.00330 | CO-130 | 1,236.40 | 6.44 | CO-131 | 1,235.62 | 7.37 | 53,586 | 1.34 | 13.1 | 409,101 | 23.3 | 448,636 |
| CO-325 | 8.0 | 0.013 | 262.6 | 0.00330 | CO-131 | 1,235.52 | 7.47 | CO-132 | 1,234.65 | 8.88 | 64,303 | 1.41 | 15.7 | 409,101 | 25.6 | 448,636 |
| CO-326 | 8.0 | 0.013 | 178.2 | 0.00330 | CO-132 | 1,234.55 | 8.98 | CO-140 | 1,233.96 | 10.02 | 75,020 | 1.48 | 18.3 | 409,101 | 27.6 | 448,636 |
| CO-327 | 8.0 | 0.013 | 245.2 | 0.00330 | CO-140 | 1,233.86 | 10.12 | CO-145 | 1,233.05 | 10.11 | 244,732 | 2.03 | 59.8 | 409,101 | 52.7 | 448,636 |
| CO-328 | 8.0 | 0.013 | 442.3 | 0.00515 | CO-139 | 1,238.20 | 6.00 | CO-138 | 1,240.48 | 6.00 | 37,350 | 1.41 | 7.3 | 511,190 | 17.5 | 560,591 |
| CO-329 | 8.0 | 0.013 | 125.3 | 0.04763 | CO-228 | 1,235.29 | 7.31 | CO-229 | 1,229.32 | 13.31 | 26,365 | 2.77 | 1.7 | 1,554,168 | 8.7 | 1,704,360 |
| CO-330 | 8.0 | 0.013 | 55.8 | 0.00330 | CO-230 | 1,228.16 | 13.91 | CO-231 | 1,227.98 | 13.97 | 106,742 | 1.63 | 26.1 | 409,101 | 33.2 | 448,636 |
| CO-331 | 8.0 | 0.013 | 227.6 | 0.00330 | CO-231 | 1,227.88 | 14.07 | CO-232 | 1,227.13 | 13.85 | 106,742 | 1.63 | 26.1 | 409,101 | 33.2 | 448,636 |
| CO-332 | 8.0 | 0.013 | 139.2 | 0.00330 | CO-217 | 1,232.60 | 10.93 | CO-218 | 1,232.14 | 11.02 | 61,592 | 1.39 | 15.1 | 409,101 | 25.0 | 448,636 |
| CO-333 | 8.0 | 0.013 | 387.6 | 0.00330 | CO-194 | 1,223.23 | 19.81 | CO-195 | 1,221.96 | 22.06 | 125,190 | 1.70 | 30.6 | 409,101 | 36.2 | 448,636 |
| CO-334 | 8.0 | 0.013 | 124.4 | 0.01341 | CO-78 | 1,216.02 | 22.28 | CO-79 | 1,214.35 | 23.92 | 156,142 | 3.00 | 18.9 | 824,640 | 28.1 | 904,332 |
| CO-335 | 8.0 | 0.013 | 342.0 | 0.02378 | CO-50 | 1,232.61 | 6.00 | CO-70 | 1,224.47 | 13.55 | 8,713 | 1.55 | 0.8 | 1,098,272 | 6.1 | 1,204,407 |
| OFF-CO-1 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-1 | 1,210.42 | 19.58 | O-1 | 1,210.00 | 16.27 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-2 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-2 | 1,210.94 | 20.06 | OFF-MH-1 | 1,210.52 | 19.48 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-3 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-3 | 1,211.46 | 18.54 | OFF-MH-2 | 1,211.04 | 19.96 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-4 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-4 | 1,211.98 | 21.02 | OFF-MH-3 | 1,211.56 | 18.44 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-5 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-5 | 1,212.50 | 21.50 | OFF-MH-4 | 1,212.08 | 20.92 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-6 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-6 | 1,213.02 | 22.98 | OFF-MH-5 | 1,212.60 | 21.40 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-7 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-7 | 1,213.54 | 23.46 | OFF-MH-6 | 1,213.12 | 22.88 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-8 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-8 | 1,214.06 | 23.94 | OFF-MH-7 | 1,213.64 | 23.36 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-9 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-9 | 1,214.58 | 27.42 | OFF-MH-8 | 1,214.16 | 23.84 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-10 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-10 | 1,215.10 | 30.56 | OFF-MH-9 | 1,214.68 | 27.32 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-11 | 36.0 | 0.013 | 600.0 | 0.00070 | OFF-MH-11 | 1,215.62 | 28.36 | OFF-MH-10 | 1,215.20 | 30.46 | 9,150,102 | 2.77 | 88.0 | 10,399,747 | 67.8 | 11,404,761 |
| OFF-CO-12 | 36.0 | 0.013 | 353.8 | 0.00754 | OFF-MH-11 | 1,218.39 | 26.28 | OFF-MH-11 | 1,215.72 | 28.26 | 9,033,928 | 6.74 | 26.5 | 34,131,819 | 33.5 | 37,430,261 |
| OFF-CO-13 | 36.0 | 0.013 | 488.5 | 0.00559 | OFF-MH-12 | 1,221.22 | 24.78 | OFF-MH-11 | 1,218.49 | 26.18 | 9,033,928 | 6.05 | 30.7 | 29,398,026 | 36.2 | 32,239,002 |
| OFF-CO-13 | 36.0 | 0.013 | 600.0 | 0.00754 | OFF-MH-13 | 1,225.85 | 23.31 | OFF-MH-12 | 1,221.32 | 24.68 | 8,023,250 | 6.52 | 23.5 | 34,131,819 | 31.4 | 37,430,261 |
| OFF-CO-14 | 36.0 | 0.013 | 600.0 | 0.00754 | OFF-MH-14 | 1,230.47 | 19.70 | OFF-MH-13 | 1,225.95 | 23.21 | 8,023,250 | 6.52 | 23.5 | 34,131,819 | 31.4 | 37,430,261 |

| Label | Diam (in) | Mannin g's n | Length (ft) | Slope (ft/ft) | Start Node | Invert (Start) (ft) | Cover (Start) (ft) | Stop Node | Invert (Stop) (ft) | Cover (Stop) (ft) | Flow (gal/day) | Velocity at Flow (ft/s) | Flow / Capacity (Design) (%) | Capacity (Design) (gal/day) | Depth / Diam (%) | Capacity (Full Flow) (gal/day) |
|-----------|-----------|--------------|-------------|---------------|------------|---------------------|--------------------|-----------|--------------------|-------------------|----------------|-------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| OFF-CO-15 | 36.0 | 0.013 | 374.5 | 0.00754 | OFF-MH-15 | 1,233.39 | 16.96 | OFF-MH-14 | 1,230.57 | 19.60 | 8,023,250 | 6.52 | 23.5 | 34,131,819 | 31.4 | 37,430,261 |
| OFF-CO-16 | 30.0 | 0.013 | 577.5 | 0.00945 | OFF-MH-16 | 1,239.45 | 12.70 | OFF-MH-15 | 1,233.99 | 16.86 | 8,023,250 | 7.17 | 34.1 | 23,498,475 | 38.3 | 25,769,328 |
| OFF-CO-17 | 30.0 | 0.013 | 499.6 | 0.00945 | OFF-MH-17 | 1,244.27 | 10.04 | OFF-MH-16 | 1,239.55 | 12.60 | 8,023,250 | 7.17 | 34.1 | 23,498,475 | 38.3 | 25,769,328 |
| OFF-CO-18 | 30.0 | 0.013 | 600.0 | 0.00941 | OFF-MH-18 | 1,250.02 | 6.10 | OFF-MH-17 | 1,244.37 | 9.94 | 8,023,250 | 7.16 | 34.2 | 23,447,495 | 38.4 | 25,713,421 |
| OFF-CO-19 | 30.0 | 0.013 | 600.0 | 0.00347 | OFF-MH-19 | 1,252.20 | 6.00 | OFF-MH-18 | 1,250.12 | 6.00 | 8,023,250 | 4.96 | 56.3 | 14,248,583 | 50.8 | 15,625,542 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|-------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-1 | 1,238.42 | 1,231.76 | 6.67 | 10,165 | 1,231.82 | 1,231.82 |
| CO-2 | 1,237.83 | 1,230.11 | 7.72 | 20,330 | 1,230.19 | 1,230.19 |
| CO-3 | 1,239.26 | 1,232.59 | 6.67 | 10,165 | 1,232.66 | 1,232.66 |
| CO-4 | 1,238.63 | 1,231.28 | 7.35 | 20,330 | 1,231.38 | 1,231.38 |
| CO-5 | 1,238.04 | 1,229.93 | 8.10 | 26,451 | 1,230.02 | 1,230.02 |
| CO-6 | 1,237.94 | 1,231.28 | 6.67 | 7,963 | 1,231.34 | 1,231.34 |
| CO-7 | 1,237.39 | 1,230.13 | 7.26 | 15,925 | 1,230.22 | 1,230.22 |
| CO-8 | 1,236.28 | 1,228.83 | 7.45 | 23,888 | 1,228.92 | 1,228.92 |
| CO-9 | 1,237.42 | 1,230.76 | 6.67 | 7,963 | 1,230.82 | 1,230.82 |
| CO-10 | 1,237.21 | 1,229.93 | 7.28 | 15,925 | 1,230.01 | 1,230.01 |
| CO-11 | 1,236.59 | 1,228.86 | 7.73 | 23,888 | 1,228.97 | 1,228.97 |
| CO-12 | 1,235.78 | 1,227.60 | 8.18 | 27,627 | 1,227.71 | 1,227.71 |
| CO-13 | 1,235.52 | 1,226.47 | 9.05 | 34,534 | 1,226.59 | 1,226.59 |
| CO-14 | 1,236.55 | 1,225.42 | 11.13 | 51,031 | 1,225.57 | 1,225.57 |
| CO-15 | 1,237.36 | 1,224.27 | 13.10 | 83,521 | 1,224.43 | 1,224.43 |
| CO-16 | 1,235.82 | 1,229.16 | 6.67 | 9,130 | 1,229.22 | 1,229.22 |
| CO-17 | 1,236.25 | 1,227.75 | 8.50 | 18,259 | 1,227.82 | 1,227.82 |
| CO-18 | 1,236.95 | 1,230.28 | 6.67 | 9,130 | 1,230.35 | 1,230.35 |
| CO-19 | 1,237.15 | 1,229.16 | 7.99 | 18,259 | 1,229.25 | 1,229.25 |
| CO-20 | 1,237.31 | 1,227.94 | 9.38 | 23,757 | 1,228.04 | 1,228.04 |
| CO-21 | 1,237.43 | 1,227.03 | 10.39 | 31,676 | 1,227.13 | 1,227.13 |
| CO-22 | 1,235.61 | 1,228.95 | 6.67 | 5,473 | 1,228.99 | 1,228.99 |
| CO-23 | 1,235.48 | 1,228.81 | 6.67 | 5,473 | 1,228.86 | 1,228.86 |
| CO-24 | 1,235.18 | 1,228.01 | 7.17 | 10,947 | 1,228.09 | 1,228.09 |
| CO-25 | 1,234.65 | 1,227.07 | 7.58 | 16,420 | 1,227.14 | 1,227.14 |
| CO-26 | 1,234.53 | 1,227.86 | 6.67 | 0 | 1,227.86 | 1,227.86 |
| CO-27 | 1,234.31 | 1,227.39 | 6.92 | 5,473 | 1,227.45 | 1,227.45 |
| CO-28 | 1,234.21 | 1,226.07 | 8.14 | 10,947 | 1,226.15 | 1,226.15 |
| CO-29 | 1,235.66 | 1,229.00 | 6.67 | 7,963 | 1,229.06 | 1,229.06 |
| CO-30 | 1,235.08 | 1,227.71 | 7.38 | 15,925 | 1,227.79 | 1,227.79 |
| CO-31 | 1,234.51 | 1,226.55 | 7.96 | 21,399 | 1,226.65 | 1,226.65 |
| CO-32 | 1,234.67 | 1,225.73 | 8.94 | 23,309 | 1,225.83 | 1,225.83 |
| CO-33 | 1,234.49 | 1,225.03 | 9.46 | 37,552 | 1,225.16 | 1,225.16 |
| CO-34 | 1,234.30 | 1,224.26 | 10.03 | 42,300 | 1,224.40 | 1,224.40 |
| CO-35 | 1,234.00 | 1,227.33 | 6.67 | 5,473 | 1,227.37 | 1,227.37 |
| CO-36 | 1,234.17 | 1,223.64 | 10.52 | 47,836 | 1,223.79 | 1,223.79 |
| CO-37 | 1,234.64 | 1,222.58 | 12.06 | 61,768 | 1,222.75 | 1,222.75 |
| CO-38 | 1,235.18 | 1,221.56 | 13.63 | 68,679 | 1,221.74 | 1,221.74 |
| CO-39 | 1,235.41 | 1,220.57 | 14.84 | 75,589 | 1,220.75 | 1,220.75 |
| CO-40 | 1,235.94 | 1,219.68 | 16.25 | 79,488 | 1,219.87 | 1,219.87 |
| CO-41 | 1,236.16 | 1,218.88 | 17.28 | 83,480 | 1,219.08 | 1,219.08 |
| CO-42 | 1,236.63 | 1,217.72 | 18.91 | 116,883 | 1,217.95 | 1,217.95 |
| CO-43 | 1,236.91 | 1,216.96 | 19.95 | 184,771 | 1,217.26 | 1,217.26 |
| CO-44 | 1,238.00 | 1,216.04 | 21.96 | 184,771 | 1,216.34 | 1,216.34 |
| CO-45 | 1,238.53 | 1,215.04 | 23.49 | 184,771 | 1,215.34 | 1,215.34 |
| CO-46 | 1,238.90 | 1,232.24 | 6.67 | 8,713 | 1,232.30 | 1,232.30 |
| CO-47 | 1,238.41 | 1,231.28 | 7.13 | 8,713 | 1,231.33 | 1,231.33 |
| CO-48 | 1,239.30 | 1,232.64 | 6.67 | 8,713 | 1,232.70 | 1,232.70 |
| CO-49 | 1,238.85 | 1,231.81 | 7.04 | 8,713 | 1,231.86 | 1,231.86 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|-------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-50 | 1,239.27 | 1,232.61 | 6.67 | 8,713 | 1,232.66 | 1,232.66 |
| CO-51 | 1,241.97 | 1,235.31 | 6.67 | 8,584 | 1,235.37 | 1,235.37 |
| CO-52 | 1,240.96 | 1,233.72 | 7.25 | 17,297 | 1,233.80 | 1,233.80 |
| CO-53 | 1,240.38 | 1,232.93 | 7.45 | 26,009 | 1,233.02 | 1,233.02 |
| CO-54 | 1,239.55 | 1,230.97 | 8.58 | 26,009 | 1,231.06 | 1,231.06 |
| CO-55 | 1,240.79 | 1,234.12 | 6.67 | 8,584 | 1,234.18 | 1,234.18 |
| CO-56 | 1,240.33 | 1,232.84 | 7.48 | 17,167 | 1,232.93 | 1,232.93 |
| CO-57 | 1,239.98 | 1,231.75 | 8.23 | 25,751 | 1,231.86 | 1,231.86 |
| CO-58 | 1,240.43 | 1,233.76 | 6.67 | 8,584 | 1,233.82 | 1,233.82 |
| CO-59 | 1,240.01 | 1,232.67 | 7.34 | 17,167 | 1,232.75 | 1,232.75 |
| CO-60 | 1,239.48 | 1,230.75 | 8.73 | 44,673 | 1,230.90 | 1,230.90 |
| CO-61 | 1,238.95 | 1,229.75 | 9.20 | 48,135 | 1,229.90 | 1,229.90 |
| CO-62 | 1,239.37 | 1,228.00 | 11.36 | 55,012 | 1,228.16 | 1,228.16 |
| CO-63 | 1,241.37 | 1,234.70 | 6.67 | 8,584 | 1,234.76 | 1,234.76 |
| CO-64 | 1,242.32 | 1,235.65 | 6.67 | 8,584 | 1,235.72 | 1,235.72 |
| CO-65 | 1,240.88 | 1,234.11 | 6.77 | 17,167 | 1,234.20 | 1,234.20 |
| CO-66 | 1,240.49 | 1,233.12 | 7.37 | 29,782 | 1,233.22 | 1,233.22 |
| CO-67 | 1,239.99 | 1,226.63 | 13.36 | 77,965 | 1,226.82 | 1,226.82 |
| CO-68 | 1,239.51 | 1,225.78 | 13.74 | 94,088 | 1,225.98 | 1,225.98 |
| CO-69 | 1,239.22 | 1,225.07 | 14.14 | 94,088 | 1,225.28 | 1,225.28 |
| CO-70 | 1,238.69 | 1,224.37 | 14.31 | 103,560 | 1,224.59 | 1,224.59 |
| CO-71 | 1,238.37 | 1,223.04 | 15.33 | 113,167 | 1,223.27 | 1,223.27 |
| CO-72 | 1,238.07 | 1,222.00 | 16.07 | 125,201 | 1,222.24 | 1,222.24 |
| CO-73 | 1,237.89 | 1,221.17 | 16.72 | 129,119 | 1,221.41 | 1,221.41 |
| CO-74 | 1,237.49 | 1,220.19 | 17.31 | 135,040 | 1,220.44 | 1,220.44 |
| CO-75 | 1,237.66 | 1,219.23 | 18.42 | 140,961 | 1,219.49 | 1,219.49 |
| CO-76 | 1,237.95 | 1,218.14 | 19.81 | 144,493 | 1,218.40 | 1,218.40 |
| CO-77 | 1,238.14 | 1,216.97 | 21.18 | 156,142 | 1,217.24 | 1,217.24 |
| CO-78 | 1,238.97 | 1,216.02 | 22.95 | 156,142 | 1,216.24 | 1,216.24 |
| CO-79 | 1,238.94 | 1,214.25 | 24.69 | 313,472 | 1,214.66 | 1,214.66 |
| CO-80 | 1,245.50 | 1,238.84 | 6.67 | 7,130 | 1,238.89 | 1,238.89 |
| CO-81 | 1,244.26 | 1,237.19 | 7.07 | 14,259 | 1,237.27 | 1,237.27 |
| CO-82 | 1,244.18 | 1,236.56 | 7.62 | 21,389 | 1,236.64 | 1,236.64 |
| CO-83 | 1,242.68 | 1,236.01 | 6.67 | 7,130 | 1,236.07 | 1,236.07 |
| CO-84 | 1,242.09 | 1,234.45 | 7.64 | 14,259 | 1,234.53 | 1,234.53 |
| CO-85 | 1,242.69 | 1,233.73 | 8.96 | 37,105 | 1,233.85 | 1,233.85 |
| CO-86 | 1,241.31 | 1,234.65 | 6.67 | 7,130 | 1,234.71 | 1,234.71 |
| CO-87 | 1,243.21 | 1,236.54 | 6.67 | 7,130 | 1,236.59 | 1,236.59 |
| CO-88 | 1,242.41 | 1,233.26 | 9.15 | 21,389 | 1,233.35 | 1,233.35 |
| CO-89 | 1,241.84 | 1,232.22 | 9.61 | 57,115 | 1,232.39 | 1,232.39 |
| CO-90 | 1,240.74 | 1,231.10 | 9.64 | 57,115 | 1,231.24 | 1,231.24 |
| CO-91 | 1,247.46 | 1,240.79 | 6.67 | 7,906 | 1,240.86 | 1,240.86 |
| CO-92 | 1,247.15 | 1,239.60 | 7.55 | 15,812 | 1,239.69 | 1,239.69 |
| CO-93 | 1,246.49 | 1,238.64 | 7.85 | 23,718 | 1,238.75 | 1,238.75 |
| CO-94 | 1,247.19 | 1,240.52 | 6.67 | 7,906 | 1,240.58 | 1,240.58 |
| CO-95 | 1,246.29 | 1,239.38 | 6.92 | 15,812 | 1,239.45 | 1,239.45 |
| CO-96 | 1,245.98 | 1,237.61 | 8.36 | 41,147 | 1,237.74 | 1,237.74 |
| CO-97 | 1,246.84 | 1,240.17 | 6.67 | 7,906 | 1,240.24 | 1,240.24 |
| CO-98 | 1,246.40 | 1,238.94 | 7.46 | 15,812 | 1,239.03 | 1,239.03 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|--------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-99 | 1,245.32 | 1,237.25 | 8.07 | 23,718 | 1,237.36 | 1,237.36 |
| CO-100 | 1,245.34 | 1,236.63 | 8.71 | 57,002 | 1,236.77 | 1,236.77 |
| CO-101 | 1,248.16 | 1,241.50 | 6.67 | 5,647 | 1,241.54 | 1,241.54 |
| CO-102 | 1,248.22 | 1,241.55 | 6.67 | 5,647 | 1,241.59 | 1,241.59 |
| CO-103 | 1,248.27 | 1,241.61 | 6.67 | 5,647 | 1,241.66 | 1,241.66 |
| CO-104 | 1,248.53 | 1,241.86 | 6.67 | 5,647 | 1,241.90 | 1,241.90 |
| CO-105 | 1,248.37 | 1,240.87 | 7.50 | 16,942 | 1,240.95 | 1,240.95 |
| CO-106 | 1,248.25 | 1,239.85 | 8.39 | 24,492 | 1,239.96 | 1,239.96 |
| CO-107 | 1,248.22 | 1,238.94 | 9.28 | 24,492 | 1,239.05 | 1,239.05 |
| CO-108 | 1,248.22 | 1,238.61 | 9.61 | 34,289 | 1,238.74 | 1,238.74 |
| CO-109 | 1,250.61 | 1,243.94 | 6.67 | 5,647 | 1,243.99 | 1,243.99 |
| CO-110 | 1,250.47 | 1,242.55 | 7.92 | 11,294 | 1,242.62 | 1,242.62 |
| CO-111 | 1,250.15 | 1,241.44 | 8.71 | 11,294 | 1,241.50 | 1,241.50 |
| CO-112 | 1,250.47 | 1,243.80 | 6.67 | 5,647 | 1,243.85 | 1,243.85 |
| CO-113 | 1,252.29 | 1,242.96 | 9.33 | 11,294 | 1,243.03 | 1,243.03 |
| CO-114 | 1,250.23 | 1,241.73 | 8.50 | 16,942 | 1,241.82 | 1,241.82 |
| CO-115 | 1,250.41 | 1,240.50 | 9.91 | 22,589 | 1,240.60 | 1,240.60 |
| CO-116 | 1,250.37 | 1,239.84 | 10.54 | 24,492 | 1,239.94 | 1,239.94 |
| CO-117 | 1,250.05 | 1,239.26 | 10.79 | 39,187 | 1,239.38 | 1,239.38 |
| CO-118 | 1,248.43 | 1,238.00 | 10.44 | 64,116 | 1,238.17 | 1,238.17 |
| CO-119 | 1,248.23 | 1,237.26 | 10.97 | 64,116 | 1,237.43 | 1,237.43 |
| CO-120 | 1,248.28 | 1,236.30 | 11.98 | 64,116 | 1,236.47 | 1,236.47 |
| CO-121 | 1,246.71 | 1,235.42 | 11.30 | 64,116 | 1,235.59 | 1,235.59 |
| CO-122 | 1,245.75 | 1,234.03 | 11.72 | 64,116 | 1,234.20 | 1,234.20 |
| CO-123 | 1,245.11 | 1,233.05 | 12.06 | 110,223 | 1,233.24 | 1,233.24 |
| CO-124 | 1,245.17 | 1,238.50 | 6.67 | 7,130 | 1,238.56 | 1,238.56 |
| CO-125 | 1,244.63 | 1,236.75 | 7.87 | 14,259 | 1,236.82 | 1,236.82 |
| CO-126 | 1,248.36 | 1,241.69 | 6.67 | 10,717 | 1,241.76 | 1,241.76 |
| CO-127 | 1,248.32 | 1,240.59 | 7.73 | 21,434 | 1,240.68 | 1,240.68 |
| CO-128 | 1,245.53 | 1,238.68 | 6.85 | 32,151 | 1,238.80 | 1,238.80 |
| CO-129 | 1,244.77 | 1,237.73 | 7.05 | 42,869 | 1,237.87 | 1,237.87 |
| CO-130 | 1,243.51 | 1,236.40 | 7.11 | 53,586 | 1,236.56 | 1,236.56 |
| CO-131 | 1,243.65 | 1,235.52 | 8.13 | 64,303 | 1,235.69 | 1,235.69 |
| CO-132 | 1,244.20 | 1,234.55 | 9.65 | 75,020 | 1,234.74 | 1,234.74 |
| CO-133 | 1,250.09 | 1,243.43 | 6.67 | 37,350 | 1,243.56 | 1,243.56 |
| CO-134 | 1,248.65 | 1,241.87 | 6.78 | 65,185 | 1,242.04 | 1,242.04 |
| CO-135 | 1,247.64 | 1,240.86 | 6.77 | 94,208 | 1,241.06 | 1,241.06 |
| CO-136 | 1,246.56 | 1,239.79 | 6.77 | 118,950 | 1,240.03 | 1,240.03 |
| CO-137 | 1,245.34 | 1,238.57 | 6.77 | 143,929 | 1,238.83 | 1,238.83 |
| CO-138 | 1,247.14 | 1,240.48 | 6.67 | 37,350 | 1,240.59 | 1,240.59 |
| CO-139 | 1,244.86 | 1,238.10 | 6.77 | 169,712 | 1,238.33 | 1,238.33 |
| CO-140 | 1,244.65 | 1,233.86 | 10.79 | 244,732 | 1,234.21 | 1,234.21 |
| CO-141 | 1,242.29 | 1,235.62 | 6.67 | 43,091 | 1,235.76 | 1,235.76 |
| CO-142 | 1,242.90 | 1,234.54 | 8.36 | 78,456 | 1,234.72 | 1,234.72 |
| CO-143 | 1,246.07 | 1,239.40 | 6.67 | 79,504 | 1,239.59 | 1,239.59 |
| CO-144 | 1,245.25 | 1,238.17 | 7.08 | 142,759 | 1,238.38 | 1,238.38 |
| CO-145 | 1,243.83 | 1,232.79 | 11.05 | 419,756 | 1,233.26 | 1,233.26 |
| CO-146 | 1,242.73 | 1,232.04 | 10.69 | 419,756 | 1,232.51 | 1,232.51 |
| CO-147 | 1,241.96 | 1,231.17 | 10.79 | 419,756 | 1,231.64 | 1,231.64 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|--------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-148 | 1,241.50 | 1,230.58 | 10.92 | 424,303 | 1,231.05 | 1,231.05 |
| CO-149 | 1,242.64 | 1,229.51 | 13.13 | 428,843 | 1,229.98 | 1,229.98 |
| CO-150 | 1,244.24 | 1,228.36 | 15.88 | 517,608 | 1,228.90 | 1,228.90 |
| CO-151 | 1,243.01 | 1,227.06 | 15.95 | 517,608 | 1,227.60 | 1,227.60 |
| CO-152 | 1,241.20 | 1,225.76 | 15.44 | 517,608 | 1,226.16 | 1,226.16 |
| CO-153 | 1,240.08 | 1,219.37 | 20.71 | 554,217 | 1,219.78 | 1,219.78 |
| CO-154 | 1,239.79 | 1,212.72 | 27.07 | 812,488 | 1,213.37 | 1,213.37 |
| CO-155 | 1,245.35 | 1,238.69 | 6.67 | 5,694 | 1,238.73 | 1,238.73 |
| CO-156 | 1,244.55 | 1,237.89 | 6.67 | 5,694 | 1,237.94 | 1,237.94 |
| CO-157 | 1,245.69 | 1,239.02 | 6.67 | 5,694 | 1,239.06 | 1,239.06 |
| CO-158 | 1,245.58 | 1,237.11 | 8.47 | 17,083 | 1,237.20 | 1,237.20 |
| CO-159 | 1,245.63 | 1,236.50 | 9.13 | 22,777 | 1,236.60 | 1,236.60 |
| CO-160 | 1,245.46 | 1,235.91 | 9.55 | 29,635 | 1,236.02 | 1,236.02 |
| CO-161 | 1,245.90 | 1,235.40 | 10.50 | 34,575 | 1,235.51 | 1,235.51 |
| CO-162 | 1,248.14 | 1,241.47 | 6.67 | 5,694 | 1,241.53 | 1,241.53 |
| CO-163 | 1,248.11 | 1,240.53 | 7.57 | 11,389 | 1,240.60 | 1,240.60 |
| CO-164 | 1,248.08 | 1,239.65 | 8.44 | 17,083 | 1,239.73 | 1,239.73 |
| CO-165 | 1,244.84 | 1,238.07 | 6.77 | 22,777 | 1,238.15 | 1,238.15 |
| CO-166 | 1,247.66 | 1,241.00 | 6.67 | 5,694 | 1,241.05 | 1,241.05 |
| CO-167 | 1,247.55 | 1,239.83 | 7.72 | 11,389 | 1,239.89 | 1,239.89 |
| CO-168 | 1,241.35 | 1,234.68 | 6.67 | 8,188 | 1,234.74 | 1,234.74 |
| CO-169 | 1,243.73 | 1,233.46 | 10.27 | 16,377 | 1,233.54 | 1,233.54 |
| CO-170 | 1,244.24 | 1,232.27 | 11.96 | 24,565 | 1,232.36 | 1,232.36 |
| CO-171 | 1,239.70 | 1,233.03 | 6.67 | 5,930 | 1,233.09 | 1,233.09 |
| CO-172 | 1,239.73 | 1,232.03 | 7.70 | 11,859 | 1,232.11 | 1,232.11 |
| CO-173 | 1,240.90 | 1,230.99 | 9.90 | 17,789 | 1,231.08 | 1,231.08 |
| CO-174 | 1,238.54 | 1,231.87 | 6.67 | 5,930 | 1,231.92 | 1,231.92 |
| CO-175 | 1,239.63 | 1,230.68 | 8.95 | 11,859 | 1,230.76 | 1,230.76 |
| CO-176 | 1,240.63 | 1,229.42 | 11.21 | 30,860 | 1,229.54 | 1,229.54 |
| CO-177 | 1,240.75 | 1,228.90 | 11.85 | 37,963 | 1,229.03 | 1,229.03 |
| CO-178 | 1,242.67 | 1,227.30 | 15.37 | 45,065 | 1,227.42 | 1,227.42 |
| CO-179 | 1,242.56 | 1,235.89 | 6.67 | 8,188 | 1,235.96 | 1,235.96 |
| CO-180 | 1,242.02 | 1,234.42 | 7.59 | 16,377 | 1,234.51 | 1,234.51 |
| CO-181 | 1,242.50 | 1,233.23 | 9.27 | 24,565 | 1,233.31 | 1,233.31 |
| CO-182 | 1,240.37 | 1,233.71 | 6.67 | 5,930 | 1,233.75 | 1,233.75 |
| CO-183 | 1,240.23 | 1,233.56 | 6.67 | 5,930 | 1,233.62 | 1,233.62 |
| CO-184 | 1,239.94 | 1,232.57 | 7.37 | 11,859 | 1,232.64 | 1,232.64 |
| CO-185 | 1,238.05 | 1,231.29 | 6.77 | 17,789 | 1,231.38 | 1,231.38 |
| CO-186 | 1,238.04 | 1,231.38 | 6.67 | 5,930 | 1,231.42 | 1,231.42 |
| CO-187 | 1,238.36 | 1,230.15 | 8.21 | 25,717 | 1,230.26 | 1,230.26 |
| CO-188 | 1,239.85 | 1,228.99 | 10.86 | 30,860 | 1,229.11 | 1,229.11 |
| CO-189 | 1,240.09 | 1,228.01 | 12.08 | 41,147 | 1,228.14 | 1,228.14 |
| CO-190 | 1,240.18 | 1,227.30 | 12.88 | 41,147 | 1,227.43 | 1,227.43 |
| CO-191 | 1,240.48 | 1,226.60 | 13.87 | 60,696 | 1,226.77 | 1,226.77 |
| CO-192 | 1,242.27 | 1,225.47 | 16.79 | 66,894 | 1,225.65 | 1,225.65 |
| CO-193 | 1,243.27 | 1,224.35 | 18.92 | 73,092 | 1,224.53 | 1,224.53 |
| CO-194 | 1,243.71 | 1,223.23 | 20.47 | 125,190 | 1,223.48 | 1,223.48 |
| CO-195 | 1,244.68 | 1,221.86 | 22.83 | 147,831 | 1,222.12 | 1,222.12 |
| CO-196 | 1,246.20 | 1,220.78 | 25.42 | 151,637 | 1,221.04 | 1,221.04 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|--------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-197 | 1,246.58 | 1,219.95 | 26.63 | 155,444 | 1,220.22 | 1,220.22 |
| CO-198 | 1,246.27 | 1,219.05 | 27.22 | 181,519 | 1,219.34 | 1,219.34 |
| CO-199 | 1,247.02 | 1,218.45 | 28.57 | 184,771 | 1,218.75 | 1,218.75 |
| CO-200 | 1,247.20 | 1,240.53 | 6.67 | 8,047 | 1,240.59 | 1,240.59 |
| CO-201 | 1,246.30 | 1,239.53 | 6.77 | 8,047 | 1,239.59 | 1,239.59 |
| CO-202 | 1,246.21 | 1,239.02 | 7.20 | 8,047 | 1,239.08 | 1,239.08 |
| CO-203 | 1,246.57 | 1,238.21 | 8.36 | 12,441 | 1,238.29 | 1,238.29 |
| CO-204 | 1,245.85 | 1,237.15 | 8.71 | 16,836 | 1,237.23 | 1,237.23 |
| CO-205 | 1,242.64 | 1,235.88 | 6.77 | 21,230 | 1,235.96 | 1,235.96 |
| CO-206 | 1,246.51 | 1,239.84 | 6.67 | 8,047 | 1,239.90 | 1,239.90 |
| CO-207 | 1,245.30 | 1,238.54 | 6.77 | 16,095 | 1,238.61 | 1,238.61 |
| CO-208 | 1,248.61 | 1,241.94 | 6.67 | 8,047 | 1,241.99 | 1,241.99 |
| CO-209 | 1,245.89 | 1,239.22 | 6.67 | 8,047 | 1,239.28 | 1,239.28 |
| CO-210 | 1,247.66 | 1,237.44 | 10.22 | 24,142 | 1,237.55 | 1,237.55 |
| CO-211 | 1,248.59 | 1,241.92 | 6.67 | 8,047 | 1,241.97 | 1,241.97 |
| CO-212 | 1,246.83 | 1,236.23 | 10.60 | 34,901 | 1,236.36 | 1,236.36 |
| CO-213 | 1,245.99 | 1,234.74 | 11.26 | 41,881 | 1,234.88 | 1,234.88 |
| CO-214 | 1,244.51 | 1,233.66 | 10.84 | 58,020 | 1,233.83 | 1,233.83 |
| CO-215 | 1,246.06 | 1,239.40 | 6.67 | 2,700 | 1,239.43 | 1,239.43 |
| CO-216 | 1,245.29 | 1,238.46 | 6.82 | 4,554 | 1,238.50 | 1,238.50 |
| CO-217 | 1,244.20 | 1,232.60 | 11.59 | 61,592 | 1,232.77 | 1,232.77 |
| CO-218 | 1,243.83 | 1,232.04 | 11.79 | 64,918 | 1,232.21 | 1,232.21 |
| CO-219 | 1,243.27 | 1,231.27 | 12.00 | 68,244 | 1,231.44 | 1,231.44 |
| CO-220 | 1,243.14 | 1,230.60 | 12.54 | 71,570 | 1,230.78 | 1,230.78 |
| CO-221 | 1,242.86 | 1,229.88 | 12.98 | 74,896 | 1,230.07 | 1,230.07 |
| CO-222 | 1,245.16 | 1,238.49 | 6.67 | 4,394 | 1,238.53 | 1,238.53 |
| CO-223 | 1,243.95 | 1,237.18 | 6.77 | 8,788 | 1,237.24 | 1,237.24 |
| CO-224 | 1,245.44 | 1,238.77 | 6.67 | 0 | 1,238.77 | 1,238.77 |
| CO-225 | 1,243.83 | 1,236.35 | 7.47 | 13,183 | 1,236.43 | 1,236.43 |
| CO-226 | 1,244.54 | 1,237.88 | 6.67 | 4,394 | 1,237.92 | 1,237.92 |
| CO-227 | 1,243.70 | 1,236.93 | 6.77 | 8,788 | 1,236.99 | 1,236.99 |
| CO-228 | 1,243.27 | 1,235.29 | 7.98 | 26,365 | 1,235.38 | 1,235.38 |
| CO-229 | 1,243.29 | 1,229.22 | 14.07 | 91,390 | 1,229.42 | 1,229.42 |
| CO-230 | 1,242.73 | 1,228.16 | 14.57 | 106,742 | 1,228.38 | 1,228.38 |
| CO-231 | 1,242.62 | 1,227.88 | 14.74 | 106,742 | 1,228.10 | 1,228.10 |
| CO-232 | 1,241.64 | 1,226.44 | 15.20 | 945,994 | 1,227.15 | 1,227.15 |
| CO-233 | 1,244.36 | 1,225.64 | 18.71 | 945,994 | 1,226.34 | 1,226.34 |
| CO-234 | 1,252.55 | 1,245.88 | 6.67 | 12,330 | 1,245.96 | 1,245.96 |
| CO-235 | 1,250.83 | 1,244.06 | 6.77 | 24,659 | 1,244.15 | 1,244.15 |
| CO-236 | 1,248.94 | 1,240.78 | 8.16 | 32,085 | 1,240.88 | 1,240.88 |
| CO-237 | 1,248.80 | 1,242.13 | 6.67 | 6,478 | 1,242.19 | 1,242.19 |
| CO-238 | 1,250.37 | 1,240.73 | 9.65 | 12,955 | 1,240.80 | 1,240.80 |
| CO-239 | 1,250.86 | 1,239.31 | 11.55 | 19,433 | 1,239.39 | 1,239.39 |
| CO-240 | 1,248.44 | 1,241.78 | 6.67 | 6,478 | 1,241.83 | 1,241.83 |
| CO-241 | 1,247.96 | 1,240.82 | 7.14 | 12,955 | 1,240.90 | 1,240.90 |
| CO-242 | 1,249.07 | 1,239.72 | 9.35 | 19,433 | 1,239.82 | 1,239.82 |
| CO-243 | 1,250.20 | 1,238.60 | 11.61 | 25,911 | 1,238.70 | 1,238.70 |
| CO-244 | 1,249.91 | 1,237.79 | 12.11 | 44,950 | 1,237.91 | 1,237.91 |
| CO-245 | 1,249.38 | 1,242.71 | 6.67 | 6,478 | 1,242.77 | 1,242.77 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|--------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-246 | 1,248.97 | 1,242.19 | 6.79 | 12,955 | 1,242.25 | 1,242.25 |
| CO-247 | 1,248.57 | 1,241.90 | 6.67 | 6,478 | 1,241.95 | 1,241.95 |
| CO-248 | 1,247.98 | 1,241.21 | 6.77 | 12,955 | 1,241.28 | 1,241.28 |
| CO-249 | 1,247.00 | 1,240.33 | 6.67 | 6,478 | 1,240.39 | 1,240.39 |
| CO-250 | 1,246.69 | 1,238.99 | 7.70 | 12,955 | 1,239.07 | 1,239.07 |
| CO-251 | 1,247.98 | 1,237.99 | 9.99 | 28,094 | 1,238.10 | 1,238.10 |
| CO-252 | 1,248.91 | 1,236.94 | 11.96 | 44,950 | 1,237.09 | 1,237.09 |
| CO-253 | 1,249.20 | 1,235.77 | 13.43 | 46,704 | 1,235.91 | 1,235.91 |
| CO-254 | 1,249.51 | 1,235.04 | 14.47 | 80,309 | 1,235.23 | 1,235.23 |
| CO-255 | 1,254.48 | 1,247.81 | 6.67 | 9,780 | 1,247.88 | 1,247.88 |
| CO-256 | 1,253.03 | 1,246.06 | 6.97 | 19,560 | 1,246.15 | 1,246.15 |
| CO-257 | 1,250.70 | 1,243.93 | 6.77 | 19,560 | 1,244.03 | 1,244.03 |
| CO-258 | 1,251.16 | 1,243.69 | 7.47 | 19,560 | 1,243.77 | 1,243.77 |
| CO-259 | 1,254.76 | 1,248.09 | 6.67 | 9,780 | 1,248.16 | 1,248.16 |
| CO-260 | 1,252.75 | 1,245.99 | 6.77 | 19,560 | 1,246.08 | 1,246.08 |
| CO-261 | 1,251.59 | 1,244.64 | 6.95 | 25,449 | 1,244.73 | 1,244.73 |
| CO-262 | 1,253.66 | 1,246.99 | 6.67 | 9,780 | 1,247.06 | 1,247.06 |
| CO-263 | 1,254.75 | 1,248.08 | 6.67 | 9,780 | 1,248.13 | 1,248.13 |
| CO-264 | 1,254.10 | 1,246.09 | 8.01 | 25,449 | 1,246.19 | 1,246.19 |
| CO-265 | 1,252.29 | 1,244.34 | 7.96 | 33,933 | 1,244.46 | 1,244.46 |
| CO-266 | 1,251.28 | 1,243.03 | 8.25 | 42,416 | 1,243.16 | 1,243.16 |
| CO-267 | 1,251.16 | 1,242.68 | 8.49 | 66,622 | 1,242.85 | 1,242.85 |
| CO-268 | 1,250.92 | 1,242.08 | 8.84 | 78,456 | 1,242.24 | 1,242.24 |
| CO-269 | 1,251.05 | 1,244.39 | 6.67 | 6,883 | 1,244.43 | 1,244.43 |
| CO-270 | 1,249.78 | 1,243.12 | 6.67 | 6,883 | 1,243.17 | 1,243.17 |
| CO-271 | 1,249.35 | 1,242.69 | 6.67 | 6,883 | 1,242.74 | 1,242.74 |
| CO-272 | 1,249.93 | 1,242.16 | 7.77 | 20,648 | 1,242.26 | 1,242.26 |
| CO-273 | 1,250.87 | 1,241.41 | 9.45 | 23,880 | 1,241.52 | 1,241.52 |
| CO-274 | 1,251.35 | 1,240.90 | 10.45 | 35,820 | 1,241.02 | 1,241.02 |
| CO-275 | 1,251.44 | 1,244.78 | 6.67 | 6,883 | 1,244.82 | 1,244.82 |
| CO-276 | 1,254.73 | 1,248.06 | 6.67 | 6,883 | 1,248.12 | 1,248.12 |
| CO-277 | 1,254.06 | 1,247.21 | 6.84 | 13,765 | 1,247.28 | 1,247.28 |
| CO-278 | 1,254.93 | 1,248.27 | 6.67 | 6,883 | 1,248.32 | 1,248.32 |
| CO-279 | 1,253.45 | 1,246.52 | 6.93 | 13,765 | 1,246.59 | 1,246.59 |
| CO-280 | 1,251.44 | 1,244.67 | 6.77 | 20,648 | 1,244.77 | 1,244.77 |
| CO-281 | 1,250.97 | 1,243.62 | 7.35 | 23,880 | 1,243.72 | 1,243.72 |
| CO-282 | 1,252.16 | 1,242.48 | 9.67 | 29,850 | 1,242.60 | 1,242.60 |
| CO-283 | 1,253.35 | 1,241.35 | 12.01 | 41,789 | 1,241.48 | 1,241.48 |
| CO-284 | 1,252.19 | 1,239.81 | 12.38 | 78,141 | 1,240.00 | 1,240.00 |
| CO-285 | 1,252.64 | 1,238.80 | 13.84 | 80,309 | 1,238.99 | 1,238.99 |
| CO-286 | 1,252.20 | 1,238.02 | 14.18 | 80,309 | 1,238.21 | 1,238.21 |
| CO-287 | 1,251.18 | 1,237.49 | 13.70 | 80,309 | 1,237.68 | 1,237.68 |
| CO-288 | 1,255.23 | 1,248.56 | 6.67 | 6,474 | 1,248.62 | 1,248.62 |
| CO-289 | 1,256.95 | 1,250.29 | 6.67 | 6,474 | 1,250.34 | 1,250.34 |
| CO-290 | 1,257.53 | 1,249.18 | 8.34 | 12,948 | 1,249.25 | 1,249.25 |
| CO-291 | 1,256.38 | 1,247.32 | 9.07 | 25,896 | 1,247.42 | 1,247.42 |
| CO-292 | 1,255.47 | 1,246.54 | 8.92 | 25,896 | 1,246.65 | 1,246.65 |
| CO-293 | 1,254.70 | 1,245.94 | 8.75 | 28,078 | 1,246.06 | 1,246.06 |
| CO-294 | 1,259.04 | 1,252.38 | 6.67 | 6,474 | 1,252.43 | 1,252.43 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|----------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| CO-295 | 1,257.02 | 1,250.25 | 6.77 | 12,948 | 1,250.31 | 1,250.31 |
| CO-296 | 1,258.61 | 1,251.94 | 6.67 | 6,474 | 1,252.00 | 1,252.00 |
| CO-297 | 1,259.71 | 1,251.14 | 8.58 | 12,948 | 1,251.22 | 1,251.22 |
| CO-298 | 1,257.64 | 1,249.39 | 8.26 | 19,422 | 1,249.48 | 1,249.48 |
| CO-299 | 1,256.49 | 1,248.36 | 8.13 | 25,896 | 1,248.46 | 1,248.46 |
| CO-300 | 1,255.52 | 1,247.28 | 8.24 | 39,310 | 1,247.40 | 1,247.40 |
| CO-301 | 1,254.10 | 1,245.29 | 8.82 | 63,704 | 1,245.46 | 1,245.46 |
| CO-302 | 1,252.72 | 1,243.87 | 8.85 | 68,604 | 1,244.02 | 1,244.02 |
| CO-303 | 1,252.04 | 1,236.70 | 15.34 | 136,427 | 1,236.95 | 1,236.95 |
| CO-304 | 1,251.04 | 1,235.53 | 15.51 | 136,427 | 1,235.77 | 1,235.77 |
| CO-305 | 1,250.21 | 1,234.26 | 15.95 | 259,939 | 1,234.62 | 1,234.62 |
| CO-306 | 1,249.93 | 1,233.09 | 16.83 | 259,939 | 1,233.46 | 1,233.46 |
| CO-307 | 1,252.98 | 1,246.31 | 6.67 | 12,330 | 1,246.39 | 1,246.39 |
| CO-308 | 1,251.27 | 1,244.50 | 6.77 | 24,659 | 1,244.61 | 1,244.61 |
| CO-309 | 1,249.74 | 1,242.75 | 6.99 | 32,085 | 1,242.85 | 1,242.85 |
| CO-310 | 1,248.79 | 1,232.44 | 16.35 | 280,101 | 1,232.82 | 1,232.82 |
| CO-311 | 1,248.79 | 1,231.24 | 17.55 | 300,096 | 1,231.64 | 1,231.64 |
| CO-312 | 1,248.34 | 1,229.85 | 18.49 | 300,096 | 1,230.25 | 1,230.25 |
| CO-313 | 1,246.85 | 1,228.84 | 18.01 | 300,096 | 1,229.24 | 1,229.24 |
| CO-314 | 1,245.78 | 1,227.77 | 18.01 | 300,096 | 1,228.17 | 1,228.17 |
| CO-315 | 1,250.97 | 1,244.31 | 6.67 | 8,188 | 1,244.37 | 1,244.37 |
| CO-316 | 1,251.83 | 1,245.17 | 6.67 | 0 | 1,245.17 | 1,245.17 |
| CO-317 | 1,250.63 | 1,243.45 | 7.18 | 16,377 | 1,243.53 | 1,243.53 |
| CO-318 | 1,251.11 | 1,242.56 | 8.56 | 24,565 | 1,242.66 | 1,242.66 |
| CO-319 | 1,249.65 | 1,241.54 | 8.10 | 28,411 | 1,241.64 | 1,241.64 |
| CO-320 | 1,252.66 | 1,246.00 | 6.67 | 12,330 | 1,246.07 | 1,246.07 |
| CO-321 | 1,253.14 | 1,244.29 | 8.85 | 24,659 | 1,244.40 | 1,244.40 |
| CO-322 | 1,250.74 | 1,242.54 | 8.19 | 32,085 | 1,242.66 | 1,242.66 |
| CO-323 | 1,248.48 | 1,240.87 | 7.61 | 32,085 | 1,240.99 | 1,240.99 |
| CO-324 | 1,248.33 | 1,240.59 | 7.73 | 39,187 | 1,240.73 | 1,240.73 |
| CO-325 | 1,247.84 | 1,239.38 | 8.46 | 42,752 | 1,239.52 | 1,239.52 |
| CO-326 | 1,246.47 | 1,238.56 | 7.91 | 71,382 | 1,238.74 | 1,238.74 |
| CO-327 | 1,251.64 | 1,244.97 | 6.67 | 8,188 | 1,245.03 | 1,245.03 |
| CO-328 | 1,249.46 | 1,242.69 | 6.77 | 16,377 | 1,242.78 | 1,242.78 |
| CO-329 | 1,249.46 | 1,241.79 | 7.67 | 24,565 | 1,241.89 | 1,241.89 |
| CO-330 | 1,248.64 | 1,240.69 | 7.95 | 28,411 | 1,240.79 | 1,240.79 |
| CO-331 | 1,245.86 | 1,237.56 | 8.29 | 95,647 | 1,237.74 | 1,237.74 |
| CO-332 | 1,245.50 | 1,226.81 | 18.69 | 372,007 | 1,227.15 | 1,227.15 |
| CO-333 | 1,244.89 | 1,224.84 | 20.05 | 1,245,524 | 1,225.67 | 1,225.67 |
| CO-334 | 1,245.20 | 1,224.35 | 20.85 | 1,245,524 | 1,225.19 | 1,225.19 |
| CO-335 | 1,248.35 | 1,223.62 | 24.73 | 1,245,524 | 1,224.47 | 1,224.47 |
| OFF-MH-1 | 1,233.00 | 1,210.42 | 22.58 | 9,150,102 | 1,212.29 | 1,212.29 |
| OFF-MH-2 | 1,234.00 | 1,210.94 | 23.06 | 9,150,102 | 1,212.86 | 1,212.86 |
| OFF-MH-3 | 1,233.00 | 1,211.46 | 21.54 | 9,150,102 | 1,213.40 | 1,213.40 |
| OFF-MH-4 | 1,236.00 | 1,211.98 | 24.02 | 9,150,102 | 1,213.93 | 1,213.93 |
| OFF-MH-5 | 1,237.00 | 1,212.50 | 24.50 | 9,150,102 | 1,214.45 | 1,214.45 |
| OFF-MH-6 | 1,239.00 | 1,213.02 | 25.98 | 9,150,102 | 1,214.97 | 1,214.97 |
| OFF-MH-7 | 1,240.00 | 1,213.54 | 26.46 | 9,150,102 | 1,215.49 | 1,215.49 |
| OFF-MH-8 | 1,241.00 | 1,214.06 | 26.94 | 9,150,102 | 1,216.01 | 1,216.01 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Depth (Structure) (ft) | Flow (Total Out) (gal/day) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) |
|-----------|----------------------|-------------------------|------------------------|----------------------------|--------------------------------|---------------------------------|
| OFF-MH-9 | 1,245.00 | 1,214.58 | 30.42 | 9,150,102 | 1,216.53 | 1,216.53 |
| OFF-MH-10 | 1,248.66 | 1,215.10 | 33.56 | 9,150,102 | 1,217.05 | 1,217.05 |
| OFF-MH-11 | 1,246.98 | 1,215.62 | 31.36 | 9,150,102 | 1,217.57 | 1,217.57 |
| OFF-MH-11 | 1,247.67 | 1,218.39 | 29.28 | 9,033,928 | 1,219.58 | 1,219.58 |
| OFF-MH-12 | 1,249.00 | 1,221.22 | 27.78 | 9,033,928 | 1,222.41 | 1,222.41 |
| OFF-MH-13 | 1,252.16 | 1,225.85 | 26.31 | 8,023,250 | 1,226.96 | 1,226.96 |
| OFF-MH-14 | 1,253.17 | 1,230.47 | 22.70 | 8,023,250 | 1,231.59 | 1,231.59 |
| OFF-MH-15 | 1,253.35 | 1,233.39 | 19.96 | 8,023,250 | 1,234.51 | 1,234.51 |
| OFF-MH-16 | 1,254.65 | 1,239.45 | 15.20 | 8,023,250 | 1,240.63 | 1,240.63 |
| OFF-MH-17 | 1,256.81 | 1,244.27 | 12.54 | 8,023,250 | 1,245.45 | 1,245.45 |
| OFF-MH-18 | 1,258.62 | 1,250.02 | 8.60 | 8,023,250 | 1,251.20 | 1,251.20 |
| OFF-MH-19 | 1,260.70 | 1,226.70 | 34.00 | 8,023,250 | 1,253.47 | 1,253.47 |

| Label | Elevation (Rim) (ft) | Elevation (Invert) (ft) | Hydraulic Grade (ft) | Flow (Total Out) (gal/day) |
|--------------------|-------------------------|-------------------------------|-------------------------|-------------------------------|
| O-1 | 1,229.27 | 1,210.00 | 1,211.20 | 9,150,102 |
| O-2 - Lift Station | 1,240.04 | 1,212.53 | 1,213.01 | 812,488 |



MASTER WATER REPORT
FOR
MIDWAY – PHASE 1
PINAL COUNTY, ARIZONA

Prepared For:
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February 2021
Project No. 2232

**MASTER WATER REPORT
FOR
MIDWAY - PHASE 1**

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1.0 INTRODUCTION

1.1 Background and Project Location

Midway is an approximately 5,750 acre master planned community located within Pinal County, and is proposed for development over multiple phases. Midway – Phase 1 (the Project) encompasses approximately 690 acres at the northern boundary of the overall Midway development, located northwest of the intersection of State Highway 347 and Miller Road in Pinal County, Arizona. The Project is bound by State Highway 347 to the east, the Teel Road alignment to the north, the Green Road alignment to the west, and Miller Road to the south. The Project lies within a portion of Section 33, Township 5 South, Range 3 East of the Gila and Salt River Meridian. Currently, the Project site is active agriculture fields.

The proposed improvements for the Project include construction of a mixed-use master planned community with corresponding roadway and utility improvements. The Project is currently envisioned to consist of a total of 25 parcels, which are proposed to be developed within four separate phases.

Figure 1 in Appendix A provides a vicinity map for the Project.

1.2 General Description

The Project is planned for approximately 2,850 residential units, a school, a park, mixed use development, and other open space uses. The Project is currently undeveloped desert land and the surrounding area generally falls to the northeast at an approximate slope of 0.4%.

The Project is located within Pinal County, in Global Water's Certificate of Convenience & Necessity (CC&N) boundary for water service. The Project is planned to be served within Global Water's Pressure Zone 1 by the partially constructed Terrazzo Water Campus and the water infrastructure for the Project discussed in this report will be owned and operated by Global Water.

1.3 Purpose of Report

The purpose of this Master Water Report is to identify and evaluate the proposed water system infrastructure for serving the Project in accordance with Global Water's *Design and Construction Standards for Potable Water, Recycled Water and Wastewater Infrastructure 2020* (Global Water, 2020). This Master Water Report discusses the existing water infrastructure within the Project vicinity and identifies anticipated water demands for average day, maximum day, peak hour, and maximum day plus fire flow conditions. It also identifies anticipated water line sizes and alignments and presents results from a hydraulic model of the proposed water infrastructure.

2.0 DESIGN CRITERIA

2.1 Global Water Design Criteria

The proposed water system infrastructure for the Project has been prepared and evaluated consistent with the design criteria listed in Global Water's *Design and Construction Standards for Potable Water, Recycled Water and Wastewater Infrastructure 2020* (Global Water, 2020). A summary of the design criteria is provided in Table 1 below.

| TABLE 1 WATER SYSTEM DESIGN CRITERIA | | | |
|---|--|-------|-----------------|
| Category | | Value | Unit |
| Average Day Water Demand | | | |
| | Single-Family Residential | 250 | gpd/DU |
| | Commercial (acreage based) | 2,800 | gpad |
| | School | 50 | gpd/student |
| | Developed Open Space | 1,800 | gpad |
| Peaking Factors (Residential) | | | |
| | Maximum Day | 2.0 | x Average Day |
| | Peak Hour | 1.7 | x Maximum Day |
| Peaking Factors (Developed Open Space) | | | |
| | Maximum Day | N/A | |
| | Peak Hour | N/A | |
| Average Day, Maximum Day, and Peak Hour System Performance | | | |
| | Minimum Pressure (static) | 40 | psi |
| | Maximum Pressure* | 80 | psi |
| Maximum Day + Fire Flow System Performance | | | |
| | Minimum Pressure | 20 | psi |
| | Residential Fire Flow ($\leq 3,600$ sf)** | 1,000 | gpm for 2 hours |
| | Commercial Fire Flow*** | 3,000 | gpm for 2 hours |
| | Maximum Velocity | 8 | fps |
| Maximum Day Pipeline Velocity and Headloss Requirements | | | |
| | Maximum Velocity | 5 | fps |
| | Maximum Headloss | 6 | ft/1,000 ft |
| Peak Hour Pipeline Velocity and Headloss Requirements | | | |
| | Maximum Velocity | 6 | fps |
| | Maximum Headloss | 8 | ft/1,000 ft |
| | Minimum Pipe Diameter | 8 | inches |
| | Hazen Williams 'C' Factor | 130 | |
| <p><u>Notes:</u></p> <p>*Any structure experiencing pressures greater than 80 psi shall have an individual PRV.</p> <p>**Residential Fire Flow is based off the International Fire Code (2012) and Global Water's required fire flow reserve for storage. Homes larger than 3,600 SF may require additional fire flow.</p> <p>*** Commercial fire flow is assumed at 3,000 gpm for 2 hours. Actual fire flow for commercial parcels will be based on the International Fire Code and the square footage of the building when known.</p> | | | |

3.0 WATER DEMANDS

3.1 Land Use

The Project is planned for approximately 2,850 residential units, a school, a park, mixed use development, and other open space uses. Table 2 shows the anticipated land use and density for the Project by sub-phase. Detailed parcel breakdown for each sub-phase is provided in Table B.1 in Appendix B and shown on Figure 2 in Appendix A.

| Sub-Phase | Land Use | Gross Area (ac) | Dwelling Units (du) | Density (du/acre) |
|--------------------|---|----------------------------|--------------------------------|------------------------------|
| 1-1 | Single Family Residential (SFR) | 170.3 | 631 | 3.7 |
| 1-2 | Single Family Residential (SFR) | 189.2 | 629 | 3.3 |
| 1-3 | Single Family Residential (SFR) Regional Park Regional School | 261.0 | 910 | 3.5 |
| 1-4 | Mixed-Use Residential Mixed-Use Commercial | 88.5 | 680 | 7.7 |
| Grand Total | | 709.1 | 2,850 | 4.0 |

3.2 Water Demand Calculations

Anticipated water demands for the Project have been calculated in accordance with the design criteria listed in Table 1 and the land uses and densities listed in Table 2. The total water demands for the Project are summarized in Table 3. Table B.1 in Appendix B presents more detailed water demand calculations for the Project, including parcels within each sub-phase. In addition, well supply, storage capacity, and booster pumping capacity sizing calculations for the Project can be found in Tables B.2, B.3, and B.4 in Appendix B, respectively.

| TABLE 3 TOTAL WATER DEMAND SUMMARY | | | | | | |
|---------------------------------------|--------------------|--------------|--------------------|----------------|------------------|----------------|
| Sub-Phase | Average Day Demand | | Maximum Day Demand | | Peak Hour Demand | |
| | gpd | gpm | gpd | gpm | gpd | gpm |
| PHASE 1 | | | | | | |
| 1-1 | 204,316 | 141.9 | 362,066 | 251.4 | 582,916 | 404.8 |
| 1-2 | 203,960 | 141.6 | 361,210 | 250.8 | 581,360 | 403.7 |
| 1-3 | 336,146 | 233.4 | 588,646 | 408.8 | 942,146 | 654.3 |
| 1-4 | 230,160 | 159.8 | 447,900 | 311.0 | 752,736 | 522.7 |
| Grand Total | 974,582 | 676.8 | 1,759,822 | 1,222.1 | 2,859,158 | 1,985.5 |

4.0 WATER SYSTEM INFRASTRUCTURE

4.1 Existing Water System Infrastructure

Existing water infrastructure within the Project vicinity includes the Terrazo Water Distribution Center (WDC), located at the northwest corner of White Road and Louis Johnson Drive and the Amarillo Creek East Well Site, located north of Papago Road between Green Road and Amarillo Valley Road,. The Terrazo WDC was constructed years ago and has since sat idle and incomplete. Existing infrastructure at the site includes a 2.5 million gallon storage reservoir and some underground piping. The Amarillo Creek East Well will need to be rehabilitated prior to supplying any water to the Terrazo WDC.

A 24-inch water main extends along Louis Johnson Road from the Terrazo WDC to Amarillo Valley Road and along Amarillo Valley Road from Louis Johnson Road to Teel Road. 16-inch water distribution mains extend along Amarillo Valley Road from Teel Road to Papago Road, along Louis Johnson Road from Amarillo Valley Road to Green Road, and along Green Road from Louis Johnson Road to Val Vista Road.

Figures 2 and 3 in Appendix A show the existing water system within the Project vicinity.

4.2 Proposed Distribution System Improvements

Proposed water distribution system improvements include a 16-inch water main along Louis Johnson Road from Green Road to SR-347 (Maricopa Road). A 12-inch water main will be constructed near the half-mile street alignment through Phases 3 and 4 and will jog down between the Phase 4 mixed-use developments and along the east side of the school in Phase 3 - Parcel 12. 8-inch water distribution mains will make up the bulk of the onsite piping improvements for the Project along local and local collector streets to provide a looped system within the development.

Figure 3 in Appendix A shows the water distribution system improvements for the Project.

4.3 Water Infrastructure Phasing

It is anticipated that the Project will be developed in up to four sub-phases. The water infrastructure within the site will similarly be constructed in phases as required to adequately serve each sub-phase of development. Furthermore, the water mains that are installed will be sized for build-out conditions, will provide adequate looping in the water system (i.e. two points of connection), and will meet the required fire flows for the area being developed.

5.0 PROPOSED WATER SUPPLY AND CAMPUS

5.1 Overview

Water for the Project is anticipated to be served by the Terrazo WDC. This WDC was constructed years ago and has since sat idle and incomplete. Although some infrastructure is useable (storage tank and underground piping), additional improvements will be required at the site to bring it up to full functionality. Anticipated improvements at the site include pumping, chlorination, electrical, and piping infrastructure. Treatment at the site, if required, will be determined upon the completion of a well siting study and groundwater quality testing for the project. Well capacity, storage capacity, and pumping requirements to serve the Project are outlined in Sections 5.2 through 5.4 of this report. In addition, well supply, storage capacity, and booster pumping capacity sizing calculations for the Project can be found in Tables B.2, B.3, and B.4 in Appendix B, respectively.

5.2 Water Supply (Wells)

The Project, and the Midway community as a whole, will require multiple wells throughout the development area to supply groundwater to the Terrazo WDC for treatment (if required), storage, and pumping. Table 4 outlines the anticipated cumulative well capacity requirements for the Project by sub-phase. Table B.2 in Appendix B provides detailed well capacity calculations. Final well pumping capacities will be determined as the wells are drilled and tested, and sufficient wells will be provided to meet the applicable required well capacity at the end of each phase or sub-phase. Final well capacity requirements will be determined during final design.

| Sub-Phase(s) | Maximum Day Demand (Cumulative) | 18-Hour Firm Well Capacity Required (Cumulative) |
|------------------|------------------------------------|---|
| | (gpm) | (gpm) |
| 1 | 251 | 335 |
| 1 & 2 | 502 | 670 |
| 1, 2, & 3 | 911 | 1,215 |
| 1 - 4 (Buildout) | 1,222 | 1,629 |

5.3 Storage Capacity

Global Water requires that sufficient storage volume be available to meet the larger of the following:

- Fire Flow Storage: 30% Maximum Day Demand + Required Fire Flow

OR

- Average Day Storage: Average Day Demand (during peak month) Minus Firm Well Production Capacity

The preliminary required storage volume for the Project is shown in Table 5. Table B.3 in Appendix B presents more detailed calculations for storage volume requirements. Since the firm well capacity for the Project is not yet known, the storage requirement identified in Table 5 and in Table B.3 in Appendix B is based solely on the fire flow storage requirement (30% Maximum Day Demand + Required Fire Flow). Final storage tank sizing will be determined during final design once the firm well capacity is known.

| TABLE 5 | | | |
|--|--------------------------------|-------------|--|
| STORAGE VOLUME SUMMARY | | | |
| Phase | Required Storage Volume | | Storage Capacity to be Provided¹ |
| | (gallons) | (MG) | (MG) |
| 1 | 887,947 | 0.89 | 900,000 |
| <i>Notes:</i> | | | |
| 1) The storage capacity provided is rounded up to the nearest 100,000 gallons. | | | |

5.4 Booster Pumping Requirements

Global Water requires that each pump station have a firm pumping capacity (i.e., the pumping capacity with the largest pump out of service) equal to or exceeding the greater of the peak hour demand and the maximum day demand plus fire flow. Table 6 below presents the required firm pumping capacity for the Project. Table B.4 in Appendix B includes more detailed calculations for booster pump requirements. Final pump sizing will be determined during preliminary and final design.

| TABLE 6 | |
|--------------------------------------|-------------------------------|
| BOOSTER PUMP CAPACITY SUMMARY | |
| Phase | Required Firm Capacity |
| | (gpm) |
| 1 | 4,222 |

6.0 HYDRAULIC MODEL AND RESULTS

6.1 Design Methodology

The proposed water distribution system was modeled using WaterCAD CONNECT Edition by Bentley Systems, Inc. Five scenarios were modeled: average day, maximum day, peak hour, residual pressure during fire flow plus maximum day conditions, and available fire flow during maximum day conditions. A residual pressure during fire flow plus maximum day analysis applies the required fire flow to each corresponding junction in the system to confirm the system's ability to meet the minimum pressure and maximum velocity requirements while providing the required fire flow during maximum day conditions. The available fire flow analysis estimates the maximum flow available at each junction while maintaining the minimum required residual pressure throughout the proposed system during maximum day conditions. For this report, a minimum fire flow of 3,000 gpm, representing a commercial/industrial fire flow has been assigned to all arterial streets in addition to the mixed-use development properties in Sub Phase 1-4.

The onsite water system infrastructure was modeled by placing a reservoir at the location of the Terrazo WDC. The hydraulic grade line (HGL) was set at an elevation of 1,390.00 feet, representing the minimum HGL required to ensure the Project meets the minimum pressure requirement of 40.0 psi throughout the site for all domestic scenarios as well as the 20.0 psi minimum residual pressure during a fire flow scenario. The proposed hydraulic grade line used in this report will be re-evaluated as the Midway development progresses and will ultimately be determined during final design of the water campus.

6.2 Hydraulic Model Results

Detailed hydraulic model results for the proposed system are provided in Appendix C. Table 7 below provides a summary of the results. As shown in Table 7 and the hydraulic model results in Appendix C, pressures throughout the modeled area remained between 40.0 psi and 80.0 psi for the domestic scenarios modeled. Velocities and head losses for the peak hour scenario fall within the allowable limits shown in Table 1. The fire flow analysis showed that the proposed system provides the required 1,000 gpm of fire flow for single family residential development and the assumed 3,000 gpm for commercial/industrial development within the Project while maintaining a residual pressure of at least 20 psi and a maximum velocity of less than 10 feet per second.

| TABLE 7 HYDRAULIC MODELING SUMMARY | | | | | | |
|---|-------------|----------|--------------------------------------|----------|-----------|----------|
| | Average Day | | Maximum Day | | Peak Hour | |
| | Value | Location | Value | Location | Value | Location |
| Minimum Pressure (psi) | 47.9 | J-1 | 47.7 | J-1 | 47.1 | J-1 |
| Maximum Pressure (psi) | 66.5 | J-54 | 64.5 | J-54 | 60.1 | J-54 |
| Maximum Velocity (fps) | 1.08 | P-2 | 1.95 | P-2 | 3.17 | P-2 |
| Maximum Head loss (feet/1,000 feet of pipe) | 0.303 | P-2 | 0.905 | P-2 | 2.223 | P-2 |
| Maximum Day Demand + Fire Flow - Residual Pressure Analysis | | | | | | |
| | Value | Location | Fire Flow Location and Flow | | | |
| Minimum Residual Pressure (psi) | 22.5 | J-16 | J-16 @ 3,000 GPM | | | |
| Maximum Velocity (fps) | 9.39 | P-15 | J-15 @ 3,000 GPM J-16 @ 3,000 GPM | | | |
| Maximum Day Demand + Fire Flow - Available Fire Flow Analysis | | | | | | |
| | Value | Location | | | | |
| Minimum Available Fire Flow - Residential | 1,554.5 | J-113 | | | | |
| Minimum Available Fire Flow - Commercial (gpm) | 3,121.4` | J-10 | | | | |
| Notes: | | | | | | |
| * Full model results are provided in Appendix C | | | | | | |

7.0 CONCLUSIONS

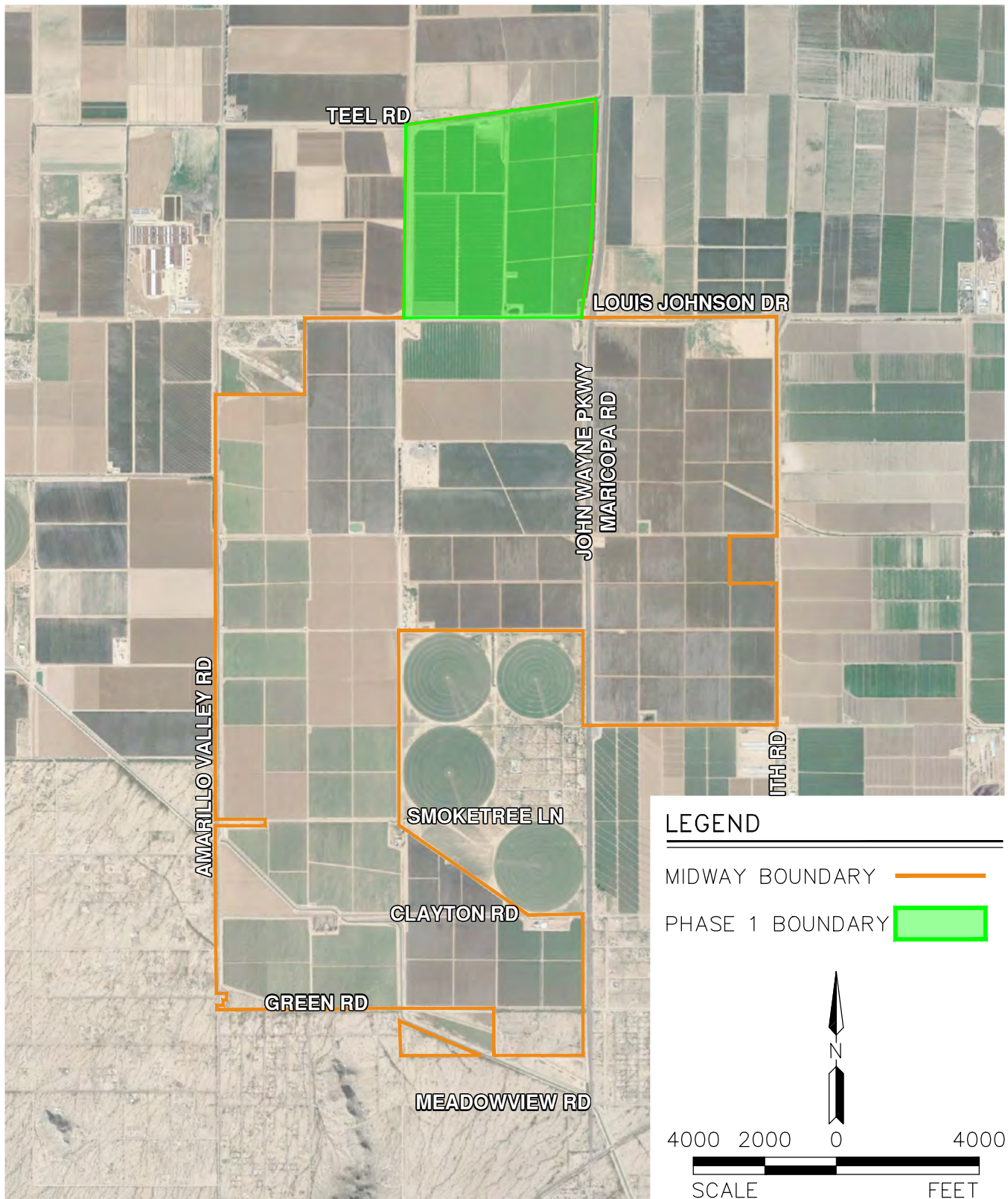
The proposed onsite water system will adequately serve the Project. This report has determined that:

- The average day, maximum day, and peak hour demands for the Project are 974,582 gpd (676.8 gpm), 1,759,822 gpd (1,222.1 gpm), and 2,859,158 gpd (1,985.5 gpm), respectively.
- Existing facilities in the Project Vicinity include the Terrazo WDC and the Amarillo Creek East Well. It is anticipated that the Project will be served by the Terrazo WDC.
- The hydraulic model shows that the Project can be adequately served by the proposed system of 8-inch, 12-inch, and 16-inch looped water mains.
- Hydraulic model results show that pressures, velocities, and head losses for the proposed system fall within the allowable limits established by Global Water during the domestic scenarios modeled.
- The proposed system can provide the required 1,000 gpm of fire flow (residential) and 3,000 gpm (assumed for commercial) to the Project while maintaining the minimum required residual pressure of 20 psi.

8.0 REFERENCES

Global Water. (2020). *Design and Construction Standards for Potable Water, Recycled Water and Wastewater Infrastructure 2020*. July 2020, Phoenix, AZ

APPENDIX A
FIGURES



| | |
|-------------|-------------|
| PROJ.NO.: | 2232 |
| DATE: | DEC 2020 |
| SCALE: | 1" = 4,000' |
| DRAWN BY: | SL |
| CHECKED BY: | AT |

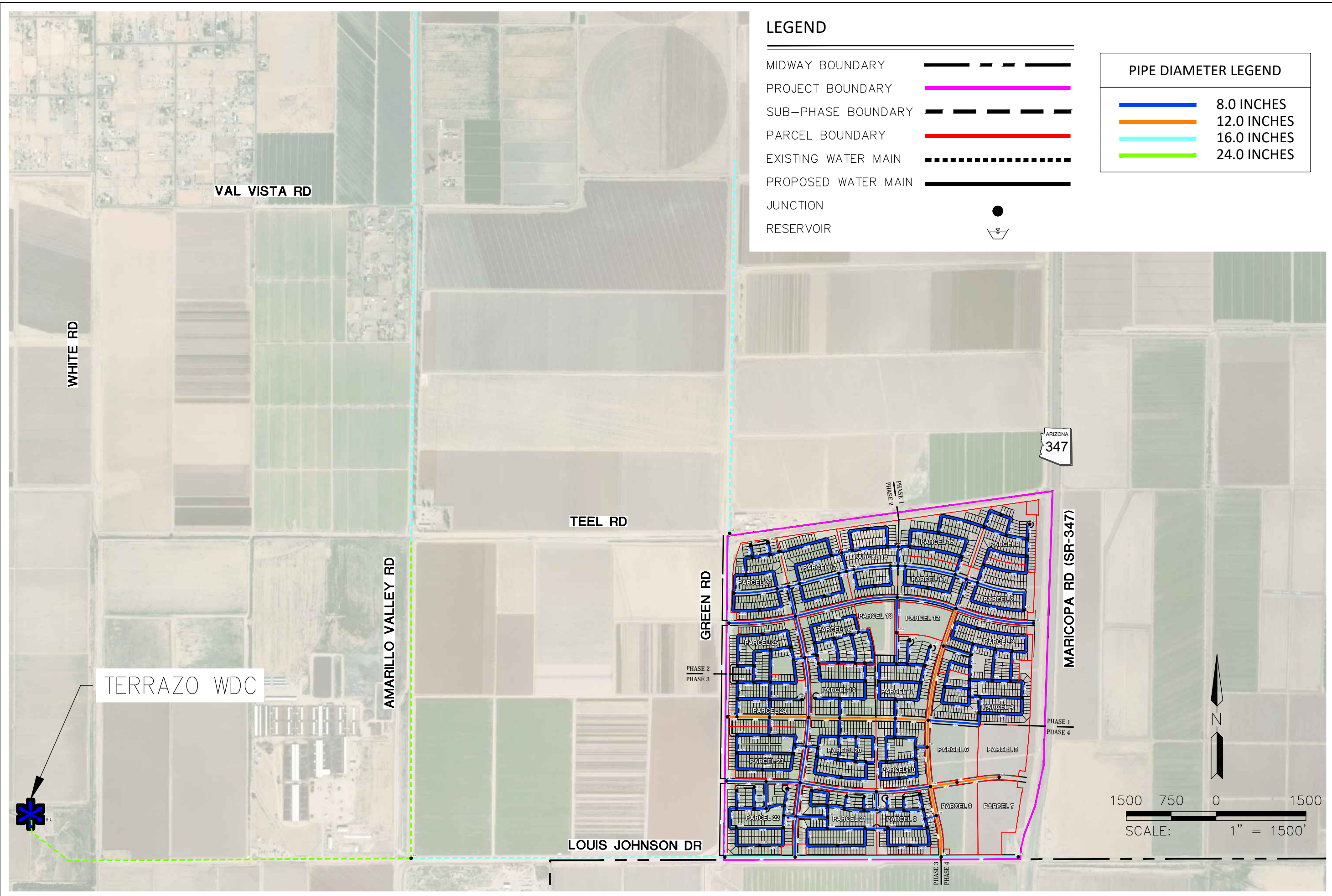
MIDWAY — PHASE 1

PINAL COUNTY, ARIZONA

FIG 1: VICINITY MAP

HILGARTWILSON

2141 E. HIGHLAND AVE., STE. 250
 PHOENIX, AZ 85016
 P: 602.490.0535 / F: 602.368.2436



LEGEND

- MIDWAY BOUNDARY:
- PROJECT BOUNDARY:
- SUB-PHASE BOUNDARY:
- PARCEL BOUNDARY:
- EXISTING WATER MAIN:
- PROPOSED WATER MAIN:
- JUNCTION:
- RESERVOIR:

PIPE DIAMETER LEGEND

- 8.0 INCHES
- 12.0 INCHES
- 16.0 INCHES
- 24.0 INCHES

| | |
|-------------|------------|
| PROJ. NO.: | 2232 |
| DATE: | FEB 2020 |
| SCALE: | 1" = 1500' |
| DRAWN BY: | MAJ |
| CHECKED BY: | MI |

TEEL RD

GREEN RD

PHASE 2
PHASE 3

LOUIS JOHNSON DR

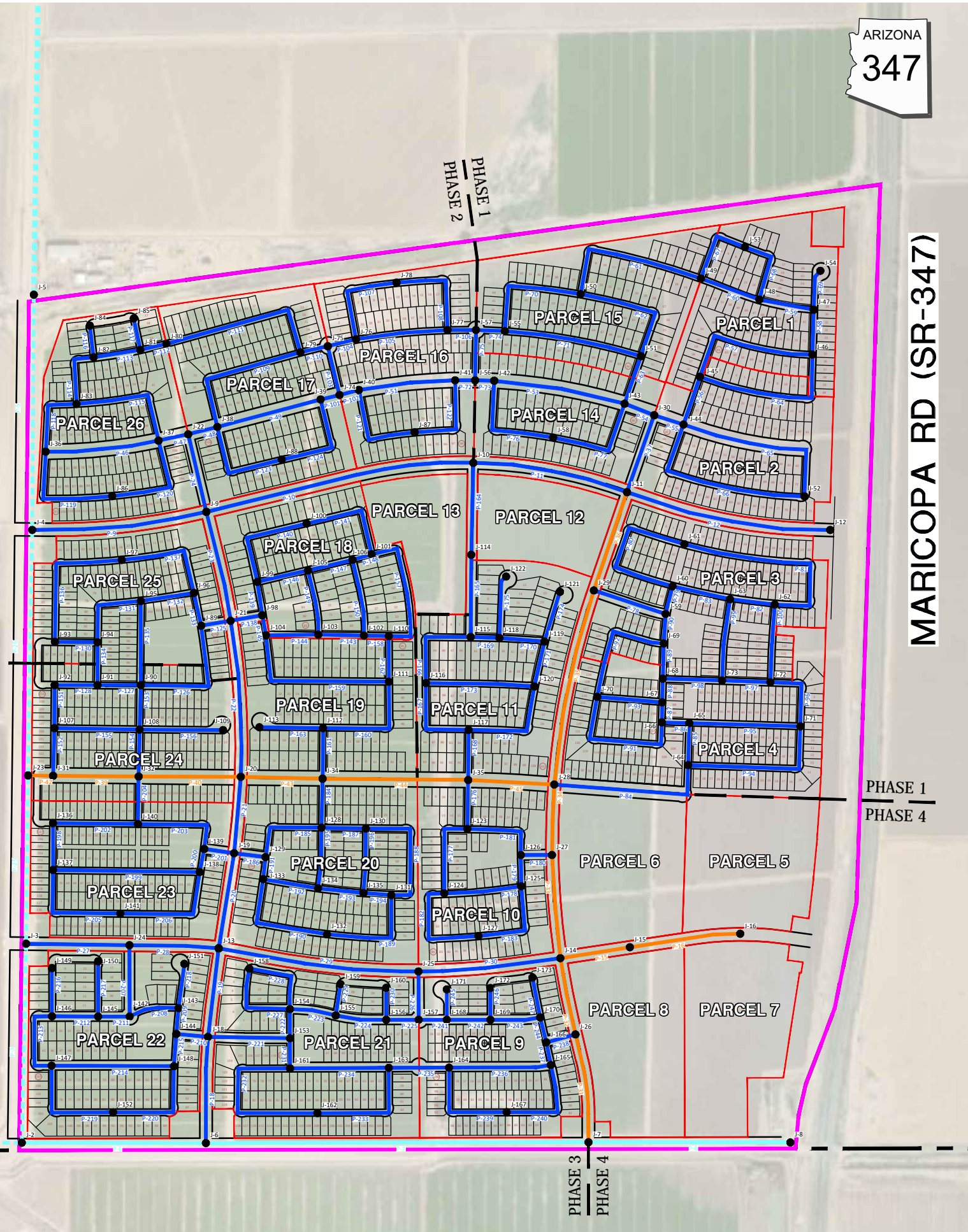
ARIZONA
347

PHASE 1
PHASE 2

MARICOPA RD (SR-347)

PHASE 1
PHASE 4

PHASE 3
PHASE 4

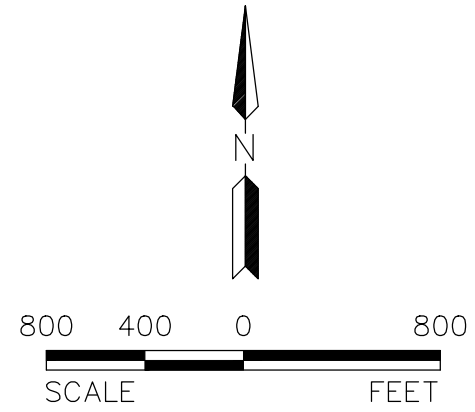


LEGEND

- MIDWAY BOUNDARY
- PROJECT BOUNDARY
- SUB-PHASE BOUNDARY
- PARCEL BOUNDARY
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- JUNCTION
- RESERVOIR

PIPE DIAMETER LEGEND

- 8.0 INCHES
- 12.0 INCHES
- 16.0 INCHES
- 24.0 INCHES



MIDWAY - PHASE 1
 LOUIS JOHNSON RD & GREEN RD
 PINAL COUNTY, AZ

PROJ. NO.: 2232
 DATE: FEB 2020
 SCALE: 1" = 800'
 DRAWN BY: MAJ
 CHECKED BY: MI

HILGARTWILSON
 2141 E. HIGHLAND AVE., STE. 250
 PHOENIX, AZ 85016
 P: 602.490.0535 / F: 602.368.2436

FIG 3: WATER SYSTEM IMPROVEMENTS (ZOOMED IN)

APPENDIX B
SUPPLEMENTARY TABLES

B.1 - Water Demand Calculations

Midway - Phase 1

Maricopa, AZ
February, 2020

HILGART WILSON
Calculated By: MAJ
Checked By: MI

| Parcel | Land Use | Area | | Dwelling Units (du) | Density (du/acre) | Mixed-Use Area (ac) | Population / Number of Students | Average Day Demand | | | Maximum Day Demand | | Peak Hour Demand | | |
|----------------------------|-------------------------|--------------|------------------------------|---------------------|-------------------|---------------------|---------------------------------|--------------------|-------------------------------|----------------|--------------------|------------------|------------------|------------------|----------------|
| | | Gross (ac) | Open Space ³ (ac) | | | | | Land Use (gpd) | Open Space ³ (gpd) | Total (gpd) | (gpd) | (gpm) | (gpd) | (gpm) | |
| | | (ac) | (ac) | | | | | (gpd) | (gpd) | (gpd) | (gpm) | (gpm) | (gpm) | (gpm) | |
| PHASE 1-1 | | | | | | | | | | | | | | | |
| 1 | Residential | 20.3 | 3.9 | 84 | 4.1 | - | 269 | 21,000 | 7,092 | 28,092 | 19.5 | 49,092 | 34.1 | 78,492 | 54.5 |
| 2 | Residential | 23.0 | 3.9 | 97 | 4.2 | - | 310 | 24,250 | 7,092 | 31,342 | 21.8 | 55,592 | 38.6 | 89,542 | 62.2 |
| 3 | Residential | 29.8 | 6.0 | 144 | 4.8 | - | 461 | 36,000 | 10,764 | 46,764 | 32.5 | 82,764 | 57.5 | 133,164 | 92.5 |
| 4 | Residential | 30.2 | 4.7 | 152 | 5.0 | - | 486 | 38,000 | 8,406 | 46,406 | 32.2 | 84,406 | 58.6 | 137,606 | 95.6 |
| 14 | Residential | 17.1 | 2.6 | 60 | 3.5 | - | 192 | 15,000 | 4,716 | 19,716 | 13.7 | 34,716 | 24.1 | 55,716 | 38.7 |
| 15 | Residential | 24.5 | 4.7 | 94 | 3.8 | - | 301 | 23,500 | 8,496 | 31,996 | 22.2 | 55,496 | 38.5 | 88,396 | 61.4 |
| - | Miscellaneous | 25.4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Phase 1-1 Subtotal: | | 170.3 | 25.9 | 631 | 3.7 | 0.0 | 2,019 | 157,750 | 46,566 | 204,316 | 141.9 | 362,066 | 251.4 | 582,916 | 404.8 |
| PHASE 1-2 | | | | | | | | | | | | | | | |
| 16 | Residential | 24.9 | 4.4 | 98 | 3.9 | - | 314 | 24,500 | 7,992 | 32,492 | 22.6 | 56,992 | 39.6 | 91,292 | 63.4 |
| 17 | Residential | 28.7 | 5.4 | 116 | 4.0 | - | 371 | 29,000 | 9,648 | 38,648 | 26.8 | 67,648 | 47.0 | 108,248 | 75.2 |
| 18 | Residential | 21.9 | 3.4 | 83 | 3.8 | - | 266 | 20,750 | 6,138 | 26,888 | 18.7 | 47,638 | 33.1 | 76,638 | 53.3 |
| 19 | Residential | 22.7 | 3.0 | 95 | 4.2 | - | 304 | 23,750 | 5,418 | 29,168 | 20.3 | 52,918 | 36.7 | 86,168 | 59.8 |
| 25 | Residential | 23.8 | 5.8 | 116 | 4.9 | - | 371 | 29,000 | 10,368 | 39,368 | 27.3 | 68,368 | 47.5 | 108,968 | 75.7 |
| 26 | Residential | 26.2 | 4.0 | 121 | 4.6 | - | 387 | 30,250 | 7,146 | 37,396 | 26.0 | 67,646 | 47.0 | 109,996 | 76.4 |
| - | Miscellaneous | 40.9 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Phase 1-2 Subtotal: | | 189.2 | 26.0 | 629 | 3.3 | 0.0 | 2,013 | 157,250 | 46,710 | 203,960 | 141.6 | 361,210 | 250.8 | 581,360 | 403.7 |
| PHASE 1-3 | | | | | | | | | | | | | | | |
| 9 | Residential | 23.2 | 4.9 | 100 | 4.3 | - | 320 | 25,000 | 8,892 | 33,892 | 23.5 | 58,892 | 40.9 | 93,892 | 65.2 |
| 10 | Residential | 21.8 | 5.5 | 84 | 3.9 | - | 269 | 21,000 | 9,972 | 30,972 | 21.5 | 51,972 | 36.1 | 81,372 | 56.5 |
| 11 | Residential | 27.9 | 4.9 | 101 | 3.6 | - | 323 | 25,250 | 8,874 | 34,124 | 23.7 | 59,374 | 41.2 | 94,724 | 65.8 |
| 20 | Residential | 30.0 | 4.9 | 130 | 4.3 | - | 416 | 32,500 | 8,748 | 41,248 | 28.6 | 73,748 | 51.2 | 119,248 | 82.8 |
| 21 | Residential | 31.4 | 4.8 | 130 | 4.1 | - | 416 | 32,500 | 8,550 | 41,050 | 28.5 | 73,550 | 51.1 | 119,050 | 82.7 |
| 22 | Residential | 29.5 | 5.1 | 107 | 3.6 | - | 342 | 26,750 | 9,108 | 35,858 | 24.9 | 62,608 | 43.5 | 100,058 | 69.5 |
| 23 | Residential | 24.3 | 3.4 | 127 | 5.2 | - | 406 | 31,750 | 6,192 | 37,942 | 26.3 | 69,692 | 48.4 | 114,142 | 79.3 |
| 24 | Residential | 24.7 | 2.0 | 131 | 5.3 | - | 419 | 32,750 | 3,564 | 36,314 | 25.2 | 69,064 | 48.0 | 114,914 | 79.8 |
| 13 | Park | 9.9 | 9.9 | - | - | - | - | 0 | 17,766 | 17,766 | 12.3 | 17,766 | 12.3 | 17,766 | 12.3 |
| 12 | School | 10.1 | 1.1 | - | - | - | 500 | 25,000 | 1,980 | 26,980 | 18.7 | 51,980 | 36.1 | 86,980 | 60.4 |
| - | Miscellaneous | 28.5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Phase 1-3 Subtotal: | | 261.0 | 46.5 | 910 | 3.5 | 0.0 | 3,412 | 252,500 | 83,646 | 336,146 | 233.4 | 588,646 | 408.8 | 942,146 | 654.3 |
| PHASE 1-4 | | | | | | | | | | | | | | | |
| 5 | Mixed-Use (Residential) | 15.9 | 1.6 | 127 | - | 15.9 | 406 | 31,750 | 2,880 | 34,630 | 24.0 | 66,380 | 46.1 | 110,830 | 77.0 |
| 6 | Mixed-Use (Residential) | 17.7 | 1.8 | 248 | - | 17.7 | 794 | 62,000 | 3,240 | 65,240 | 45.3 | 127,240 | 88.4 | 214,040 | 148.6 |
| 7 | Mixed-Use (Commercial) | 17.1 | 1.8 | - | - | 17.1 | 191 | 47,740 | 3,240 | 50,980 | 35.4 | 98,720 | 68.6 | 165,556 | 115.0 |
| 8 | Mixed-Use (Residential) | 17.0 | 1.7 | 305 | - | 17.0 | 976 | 76,250 | 3,060 | 79,310 | 55.1 | 155,560 | 108.0 | 262,310 | 182.2 |
| - | Miscellaneous | 20.9 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Phase 1-4 Subtotal: | | 88.5 | 6.9 | 680 | 7.7 | 67.6 | 2,367 | 217,740 | 12,420 | 230,160 | 159.8 | 447,900 | 311.0 | 752,736 | 522.7 |
| Grand Total: | | 709.1 | 105.2 | 2,850 | 4.0 | 67.6 | 9,811 | 785,240 | 189,342 | 974,582 | 676.8 | 1,759,822 | 1,222.1 | 2,859,158 | 1,985.5 |

Notes:

Flow Factors:

Residential: 250 gal/day/dwelling unit
 Commercial (Building Square Footage Based): 0.125 gal/square foot/day
 Commercial (Area Based): 2,800 gal/acre/day
 Industrial: 1,800 gal/acre/day
 School: 50 gal/student/day
 Parks/Landscape/Open Space: 1,800 gal/acre/day

Population Factors:

Residential: 3.2 persons/dwelling unit

Peaking Factors:

Maximum Day Demand: 2.0 x Average Day Demand
 Peak Hour Demand: 1.7 x Maximum Day Demand

Fire Flow¹:

Residential: 1,000 gpm for 2 hours
 Commercial/Industrial/Etc: 3,000 gpm for 2 hours (Building type and size unknown at this time. General 3,000 gpm fire flow assumed)

- (1) Demand Factors, Population Factors, and Peaking Factors were taken from the *Design and Construction Standards for Potable Water, Recycled Water, and Wastewater Infrastructure* (Global Water, 2017).
- (2) Fire Flow based on the 2012 *International Fire Code* (ICC, 2012).
- (3) Open space area for parcels with undetermined open space (Phase 1-4) assumed at 10% of the gross acreage.
- (4) Open space and landscape demands are anticipated to remain fairly constant and are not peaked.

Table B.2 - Well Capacity Requirements

Midway - Phase 1

Maricopa, AZ
February, 2020



Calculated By: MAJ
Checked By: MI

| PHASE 1 | | |
|--|-----------|---|
| Well Capacity Requirements: | | |
| <i>Well capacity shall meet the Maximum Day Demand while pumping at 18 hours/day with the largest well out of service.</i> | | |
| PHASE 1-1 | | |
| Maximum Day Demand: | 251 gpm | |
| Required Well Capacity: | 335 gpm | <i>(Pumping at 18 hrs/day) (With largest well out of service)</i> |
| PHASE 1-2 (Cumulative) | | |
| Maximum Day Demand: | 502 gpm | |
| Required Well Capacity: | 670 gpm | <i>(Pumping at 18 hrs/day) (With largest well out of service)</i> |
| PHASE 1-3 (Cumulative) | | |
| Maximum Day Demand: | 911 gpm | |
| Required Well Capacity: | 1,215 gpm | <i>(Pumping at 18 hrs/day) (With largest well out of service)</i> |
| PHASE 1-4 (Cumulative) | | |
| Maximum Day Demand: | 1,222 gpm | |
| Required Well Capacity: | 1,629 gpm | <i>(Pumping at 18 hrs/day) (With largest well out of service)</i> |

Table B.3 - Storage Requirements

Midway - Phase 1

Maricopa, AZ
February, 2020



Calculated By: MAJ
Checked By: MI

| PHASE 1 | | | |
|---|---|----------------|--------------------------|
| Storage Requirements: | | | |
| <i>The largest of the following is used for calculating ultimate storage:</i> | | | |
| A) Fire Flow: | 30% Maximum Day Demand + Required Fire Flow: <i>(Phase 1 assumes a commercial fire flow of 3,000 gpm for 2 hours)</i> | 887,947 | gallons |
| B) Average Day Storage: | Average Day Demand (during peak month) Minus Firm Well Production Capacity: <i>(Firm well production capacity is unknown at this time)</i> | - | gallons |
| Phase 1 Storage Required: | | 887,947 | gallons = 0.89 MG |

Table B.4 - Booster Pump Requirements

Midway - Phase 1

Maricopa, AZ
February, 2020



Calculated By: MAJ
Checked By: MI

PHASE 1

Booster Pump Requirements:

Shall meet or exceed the greater of (with the largest pump out of service):

Peak Hour Demand OR

Maximum Day Demand + Fire Flow

Peak Hour Demand:

| | | |
|------------------------|-----------|--|
| Peak Hour Demand: | 1,986 gpm | |
| Firm Pumping Capacity: | 1,986 gpm | (with the largest pump out of service) |

Maximum Day Demand + Fire Flow:

| | | |
|------------------------|-----------|--|
| Maximum Day Demand: | 1,222 gpm | |
| Fire Flow: | 3,000 gpm | |
| Firm Pumping Capacity: | 4,222 gpm | (with the largest pump out of service) |

Firm Pumping Capacity: 4,222 gpm (with the largest pump out of service)

APPENDIX C
HYDRAULIC MODEL RESULTS

AVERAGE DAY DEMAND

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-1 | 1,279.0 | 0.0 | 1,389.7 | 47.9 |
| J-2 | 1,262.1 | 0.0 | 1,388.1 | 54.5 |
| J-3 | 1,256.8 | 0.0 | 1,388.0 | 56.8 |
| J-4 | 1,249.0 | 0.0 | 1,387.9 | 60.1 |
| J-5 | 1,247.4 | 0.0 | 1,387.9 | 60.8 |
| J-6 | 1,255.7 | 0.0 | 1,388.1 | 57.3 |
| J-7 | 1,252.1 | 0.0 | 1,388.0 | 58.8 |
| J-8 | 1,250.7 | 0.0 | 1,388.0 | 59.4 |
| J-9 | 1,245.1 | 0.0 | 1,387.8 | 61.7 |
| J-10 | 1,239.6 | 0.0 | 1,387.7 | 64.1 |
| J-11 | 1,238.6 | 0.0 | 1,387.7 | 64.5 |
| J-12 | 1,237.1 | 0.0 | 1,387.7 | 65.2 |
| J-13 | 1,252.0 | 0.0 | 1,387.9 | 58.8 |
| J-14 | 1,246.7 | 0.0 | 1,387.8 | 61.0 |
| J-15 | 1,245.8 | 100.4 | 1,387.8 | 61.4 |
| J-16 | 1,243.4 | 59.5 | 1,387.8 | 62.5 |
| J-18 | 1,253.3 | 0.0 | 1,387.9 | 58.2 |
| J-19 | 1,250.2 | 0.0 | 1,387.8 | 59.5 |
| J-20 | 1,248.8 | 0.0 | 1,387.8 | 60.2 |
| J-21 | 1,246.9 | 0.0 | 1,387.8 | 61.0 |
| J-22 | 1,243.9 | 0.0 | 1,387.7 | 62.2 |
| J-23 | 1,253.4 | 0.0 | 1,387.9 | 58.2 |
| J-24 | 1,254.0 | 0.0 | 1,387.9 | 57.9 |
| J-25 | 1,247.9 | 0.0 | 1,387.9 | 60.5 |
| J-26 | 1,248.2 | 0.0 | 1,387.9 | 60.4 |
| J-27 | 1,245.1 | 0.0 | 1,387.8 | 61.7 |
| J-28 | 1,244.2 | 0.0 | 1,387.8 | 62.1 |
| J-29 | 1,240.1 | 0.0 | 1,387.7 | 63.9 |
| J-30 | 1,236.9 | 0.0 | 1,387.7 | 65.2 |
| J-31 | 1,252.8 | 0.0 | 1,387.9 | 58.5 |
| J-32 | 1,250.9 | 0.0 | 1,387.9 | 59.2 |
| J-34 | 1,247.8 | 0.0 | 1,387.8 | 60.6 |
| J-35 | 1,245.1 | 0.0 | 1,387.8 | 61.7 |
| J-36 | 1,247.6 | 3.2 | 1,387.7 | 60.6 |
| J-37 | 1,245.2 | 3.2 | 1,387.7 | 61.7 |
| J-38 | 1,243.8 | 6.7 | 1,387.7 | 62.3 |
| J-39 | 1,240.7 | 6.7 | 1,387.7 | 63.6 |
| J-40 | 1,240.5 | 3.8 | 1,387.7 | 63.7 |
| J-41 | 1,238.9 | 3.8 | 1,387.7 | 64.4 |
| J-42 | 1,238.3 | 4.6 | 1,387.7 | 64.6 |
| J-43 | 1,237.4 | 4.6 | 1,387.7 | 65.0 |
| J-44 | 1,236.6 | 10.9 | 1,387.7 | 65.3 |
| J-45 | 1,236.2 | 0.0 | 1,387.7 | 65.5 |
| J-46 | 1,234.6 | 3.9 | 1,387.7 | 66.2 |
| J-47 | 1,234.2 | 3.9 | 1,387.7 | 66.4 |
| J-48 | 1,234.5 | 3.9 | 1,387.7 | 66.3 |
| J-49 | 1,234.5 | 0.0 | 1,387.7 | 66.3 |
| J-50 | 1,236.2 | 7.4 | 1,387.7 | 65.5 |
| J-51 | 1,236.6 | 7.4 | 1,387.7 | 65.4 |
| J-52 | 1,236.9 | 10.9 | 1,387.7 | 65.2 |

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-53 | 1,234.3 | 3.9 | 1,387.7 | 66.4 |
| J-54 | 1,234.0 | 3.9 | 1,387.7 | 66.5 |
| J-55 | 1,237.6 | 7.4 | 1,387.7 | 64.9 |
| J-56 | 1,238.5 | 0.0 | 1,387.7 | 64.5 |
| J-57 | 1,238.0 | 0.0 | 1,387.7 | 64.8 |
| J-58 | 1,238.6 | 4.6 | 1,387.7 | 64.5 |
| J-59 | 1,239.3 | 5.4 | 1,387.7 | 64.2 |
| J-60 | 1,238.7 | 5.4 | 1,387.7 | 64.5 |
| J-61 | 1,238.2 | 5.4 | 1,387.7 | 64.7 |
| J-62 | 1,238.1 | 5.4 | 1,387.7 | 64.7 |
| J-63 | 1,238.4 | 5.4 | 1,387.7 | 64.6 |
| J-64 | 1,240.8 | 5.4 | 1,387.7 | 63.6 |
| J-65 | 1,240.5 | 5.4 | 1,387.7 | 63.7 |
| J-66 | 1,240.6 | 5.4 | 1,387.7 | 63.6 |
| J-67 | 1,240.5 | 5.4 | 1,387.7 | 63.7 |
| J-68 | 1,240.0 | 0.0 | 1,387.7 | 63.9 |
| J-69 | 1,239.5 | 5.4 | 1,387.7 | 64.1 |
| J-70 | 1,241.5 | 5.4 | 1,387.7 | 63.3 |
| J-71 | 1,239.5 | 5.4 | 1,387.7 | 64.1 |
| J-72 | 1,239.0 | 0.0 | 1,387.7 | 64.3 |
| J-73 | 1,239.4 | 0.0 | 1,387.7 | 64.2 |
| J-74 | 1,240.7 | 0.0 | 1,387.7 | 63.6 |
| J-75 | 1,240.2 | 0.0 | 1,387.7 | 63.8 |
| J-76 | 1,240.1 | 3.8 | 1,387.7 | 63.8 |
| J-77 | 1,238.4 | 3.8 | 1,387.7 | 64.6 |
| J-78 | 1,239.8 | 3.8 | 1,387.7 | 64.0 |
| J-79 | 1,240.5 | 6.7 | 1,387.7 | 63.7 |
| J-80 | 1,242.5 | 0.0 | 1,387.7 | 62.8 |
| J-81 | 1,245.6 | 3.2 | 1,387.7 | 61.5 |
| J-82 | 1,245.5 | 3.2 | 1,387.7 | 61.5 |
| J-83 | 1,246.3 | 3.2 | 1,387.7 | 61.2 |
| J-84 | 1,245.3 | 3.2 | 1,387.7 | 61.6 |
| J-85 | 1,244.6 | 3.2 | 1,387.7 | 61.9 |
| J-86 | 1,248.1 | 3.2 | 1,387.7 | 60.4 |
| J-87 | 1,239.7 | 3.8 | 1,387.7 | 64.0 |
| J-88 | 1,243.9 | 6.7 | 1,387.7 | 62.2 |
| J-89 | 1,247.8 | 4.6 | 1,387.8 | 60.6 |
| J-90 | 1,250.2 | 0.0 | 1,387.8 | 59.5 |
| J-91 | 1,252.1 | 0.0 | 1,387.8 | 58.7 |
| J-92 | 1,253.0 | 6.3 | 1,387.8 | 58.3 |
| J-93 | 1,251.6 | 4.6 | 1,387.8 | 58.9 |
| J-94 | 1,250.6 | 4.6 | 1,387.8 | 59.4 |
| J-95 | 1,249.7 | 4.6 | 1,387.8 | 59.8 |
| J-96 | 1,246.5 | 4.6 | 1,387.8 | 61.2 |
| J-97 | 1,249.0 | 4.6 | 1,387.8 | 60.1 |
| J-98 | 1,246.2 | 2.1 | 1,387.8 | 61.3 |
| J-99 | 1,245.4 | 2.1 | 1,387.8 | 61.6 |
| J-100 | 1,243.5 | 2.1 | 1,387.8 | 62.4 |
| J-101 | 1,243.3 | 2.1 | 1,387.8 | 62.5 |
| J-102 | 1,244.5 | 2.1 | 1,387.8 | 62.0 |

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-103 | 1,245.3 | 2.1 | 1,387.8 | 61.6 |
| J-104 | 1,246.3 | 0.0 | 1,387.8 | 61.2 |
| J-105 | 1,243.8 | 2.1 | 1,387.8 | 62.3 |
| J-106 | 1,243.2 | 2.1 | 1,387.8 | 62.6 |
| J-107 | 1,252.6 | 6.3 | 1,387.9 | 58.5 |
| J-108 | 1,250.8 | 6.3 | 1,387.8 | 59.3 |
| J-109 | 1,248.9 | 6.3 | 1,387.8 | 60.1 |
| J-110 | 1,244.2 | 2.1 | 1,387.8 | 62.1 |
| J-111 | 1,244.5 | 6.8 | 1,387.8 | 62.0 |
| J-112 | 1,247.1 | 6.8 | 1,387.8 | 60.9 |
| J-113 | 1,248.5 | 6.8 | 1,387.8 | 60.3 |
| J-114 | 1,241.3 | 31.1 | 1,387.7 | 63.4 |
| J-115 | 1,242.7 | 3.0 | 1,387.7 | 62.8 |
| J-116 | 1,243.9 | 3.0 | 1,387.8 | 62.2 |
| J-117 | 1,244.9 | 3.0 | 1,387.8 | 61.8 |
| J-118 | 1,242.4 | 3.0 | 1,387.7 | 62.9 |
| J-119 | 1,241.9 | 3.0 | 1,387.8 | 63.1 |
| J-120 | 1,242.7 | 3.0 | 1,387.8 | 62.8 |
| J-121 | 1,240.8 | 3.0 | 1,387.7 | 63.6 |
| J-122 | 1,241.3 | 3.0 | 1,387.7 | 63.4 |
| J-123 | 1,246.2 | 4.3 | 1,387.8 | 61.3 |
| J-124 | 1,247.0 | 4.3 | 1,387.8 | 60.9 |
| J-125 | 1,246.0 | 4.3 | 1,387.8 | 61.3 |
| J-126 | 1,245.3 | 4.3 | 1,387.8 | 61.6 |
| J-127 | 1,247.3 | 4.3 | 1,387.8 | 60.8 |
| J-128 | 1,248.9 | 3.6 | 1,387.8 | 60.1 |
| J-129 | 1,249.5 | 3.6 | 1,387.8 | 59.8 |
| J-130 | 1,248.0 | 3.6 | 1,387.8 | 60.5 |
| J-131 | 1,248.0 | 3.6 | 1,387.8 | 60.5 |
| J-132 | 1,250.1 | 3.6 | 1,387.8 | 59.6 |
| J-133 | 1,249.9 | 3.6 | 1,387.8 | 59.7 |
| J-134 | 1,249.7 | 3.6 | 1,387.8 | 59.8 |
| J-135 | 1,248.6 | 3.6 | 1,387.8 | 60.2 |
| J-136 | 1,254.3 | 4.4 | 1,387.8 | 57.8 |
| J-137 | 1,254.1 | 4.4 | 1,387.8 | 57.9 |
| J-138 | 1,251.2 | 4.4 | 1,387.8 | 59.1 |
| J-139 | 1,250.9 | 4.4 | 1,387.8 | 59.2 |
| J-140 | 1,251.9 | 4.4 | 1,387.8 | 58.8 |
| J-141 | 1,253.0 | 4.4 | 1,387.8 | 58.3 |
| J-142 | 1,255.5 | 2.5 | 1,387.9 | 57.3 |
| J-143 | 1,254.1 | 2.5 | 1,387.9 | 57.9 |
| J-144 | 1,254.6 | 0.0 | 1,387.9 | 57.7 |
| J-145 | 1,256.4 | 2.5 | 1,387.9 | 56.9 |
| J-146 | 1,257.5 | 2.5 | 1,387.9 | 56.4 |
| J-147 | 1,258.8 | 2.5 | 1,387.9 | 55.8 |
| J-148 | 1,255.5 | 2.5 | 1,387.9 | 57.3 |
| J-149 | 1,257.0 | 2.5 | 1,387.9 | 56.7 |
| J-150 | 1,255.2 | 2.5 | 1,387.9 | 57.4 |
| J-151 | 1,253.4 | 2.5 | 1,387.9 | 58.2 |
| J-152 | 1,258.0 | 2.5 | 1,387.9 | 56.2 |

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-153 | 1,252.8 | 2.9 | 1,387.9 | 58.4 |
| J-154 | 1,252.2 | 2.9 | 1,387.9 | 58.7 |
| J-155 | 1,251.3 | 2.9 | 1,387.9 | 59.1 |
| J-156 | 1,249.9 | 2.9 | 1,387.9 | 59.7 |
| J-157 | 1,248.4 | 0.0 | 1,387.9 | 60.3 |
| J-158 | 1,252.0 | 2.9 | 1,387.9 | 58.8 |
| J-159 | 1,250.9 | 2.9 | 1,387.9 | 59.3 |
| J-160 | 1,249.8 | 2.9 | 1,387.9 | 59.7 |
| J-161 | 1,253.4 | 2.9 | 1,387.9 | 58.2 |
| J-162 | 1,253.4 | 2.9 | 1,387.9 | 58.2 |
| J-163 | 1,251.0 | 2.9 | 1,387.9 | 59.2 |
| J-164 | 1,250.7 | 2.6 | 1,387.9 | 59.4 |
| J-165 | 1,250.1 | 2.6 | 1,387.9 | 59.6 |
| J-166 | 1,248.4 | 0.0 | 1,387.9 | 60.3 |
| J-167 | 1,250.4 | 2.6 | 1,387.9 | 59.5 |
| J-168 | 1,248.4 | 2.6 | 1,387.9 | 60.3 |
| J-169 | 1,248.3 | 2.6 | 1,387.9 | 60.4 |
| J-170 | 1,248.2 | 2.6 | 1,387.9 | 60.4 |
| J-171 | 1,248.3 | 2.6 | 1,387.9 | 60.4 |
| J-172 | 1,248.2 | 2.6 | 1,387.9 | 60.4 |
| J-173 | 1,248.1 | 2.6 | 1,387.9 | 60.4 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-1 | 6,697 | R-1 | J-1 | 24.0 | 130.0 | 676.8 | 0.48 | 0.042 |
| P-2 | 5,240 | J-1 | J-2 | 16.0 | 130.0 | 676.8 | 1.08 | 0.303 |
| P-3 | 1,269 | J-2 | J-3 | 16.0 | 130.0 | 372.7 | 0.59 | 0.100 |
| P-5 | 1,499 | J-4 | J-5 | 16.0 | 130.0 | 0.0 | 0.00 | 0.000 |
| P-6 | 1,173 | J-2 | J-6 | 16.0 | 130.0 | 304.0 | 0.49 | 0.069 |
| P-7 | 2,438 | J-6 | J-7 | 16.0 | 130.0 | 214.2 | 0.34 | 0.036 |
| P-8 | 1,287 | J-7 | J-8 | 16.0 | 130.0 | 0.0 | 0.00 | 0.000 |
| P-9 | 1,119 | J-4 | J-9 | 8.0 | 130.0 | 68.9 | 0.44 | 0.129 |
| P-10 | 1,736 | J-9 | J-10 | 8.0 | 130.0 | 25.8 | 0.16 | 0.021 |
| P-11 | 1,002 | J-10 | J-11 | 8.0 | 130.0 | 15.2 | 0.10 | 0.008 |
| P-12 | 1,325 | J-11 | J-12 | 8.0 | 130.0 | 0.0 | 0.00 | 0.000 |
| P-15 | 448 | J-14 | J-15 | 12.0 | 130.0 | 159.8 | 0.45 | 0.085 |
| P-16 | 709 | J-15 | J-16 | 12.0 | 130.0 | 59.5 | 0.17 | 0.014 |
| P-18 | 678 | J-6 | J-18 | 8.0 | 130.0 | 89.8 | 0.57 | 0.210 |
| P-19 | 569 | J-18 | J-13 | 8.0 | 130.0 | 37.2 | 0.24 | 0.041 |
| P-20 | 614 | J-13 | J-19 | 8.0 | 130.0 | 53.3 | 0.34 | 0.080 |
| P-21 | 488 | J-19 | J-20 | 8.0 | 130.0 | 17.0 | 0.11 | 0.010 |
| P-22 | 999 | J-20 | J-21 | 8.0 | 130.0 | 22.3 | 0.14 | 0.016 |
| P-23 | 712 | J-21 | J-9 | 8.0 | 130.0 | 41.0 | 0.26 | 0.049 |
| P-24 | 508 | J-9 | J-22 | 8.0 | 130.0 | 84.1 | 0.54 | 0.187 |
| P-25 | 1,073 | J-3 | J-23 | 16.0 | 130.0 | 303.3 | 0.48 | 0.069 |
| P-26 | 1,565 | J-23 | J-4 | 16.0 | 130.0 | 68.9 | 0.11 | 0.004 |
| P-27 | 658 | J-3 | J-24 | 8.0 | 130.0 | 69.5 | 0.44 | 0.131 |
| P-28 | 569 | J-24 | J-13 | 8.0 | 130.0 | 45.0 | 0.29 | 0.059 |
| P-29 | 1,284 | J-13 | J-25 | 8.0 | 130.0 | 28.9 | 0.18 | 0.026 |
| P-30 | 909 | J-25 | J-14 | 8.0 | 130.0 | 44.8 | 0.29 | 0.058 |
| P-31 | 696 | J-7 | J-26 | 12.0 | 130.0 | 214.2 | 0.61 | 0.146 |
| P-32 | 495 | J-26 | J-14 | 12.0 | 130.0 | 198.5 | 0.56 | 0.127 |
| P-33 | 660 | J-14 | J-27 | 12.0 | 130.0 | 83.4 | 0.24 | 0.026 |
| P-34 | 449 | J-27 | J-28 | 12.0 | 130.0 | 66.7 | 0.19 | 0.017 |
| P-35 | 1,266 | J-28 | J-29 | 12.0 | 130.0 | 82.1 | 0.23 | 0.025 |
| P-36 | 661 | J-29 | J-11 | 12.0 | 130.0 | 53.3 | 0.15 | 0.011 |
| P-37 | 520 | J-11 | J-30 | 8.0 | 130.0 | 68.4 | 0.44 | 0.127 |
| P-39 | 545 | J-31 | J-32 | 12.0 | 130.0 | 163.0 | 0.46 | 0.088 |
| P-40 | 651 | J-32 | J-20 | 12.0 | 130.0 | 102.7 | 0.29 | 0.037 |
| P-42 | 159 | J-23 | J-31 | 12.0 | 130.0 | 234.4 | 0.66 | 0.172 |
| P-43 | 522 | J-20 | J-34 | 12.0 | 130.0 | 97.3 | 0.28 | 0.034 |
| P-44 | 927 | J-34 | J-35 | 12.0 | 130.0 | 100.2 | 0.28 | 0.036 |
| P-45 | 549 | J-35 | J-28 | 12.0 | 130.0 | 51.3 | 0.15 | 0.010 |
| P-46 | 724 | J-36 | J-37 | 8.0 | 130.0 | 9.2 | 0.06 | 0.003 |
| P-47 | 194 | J-37 | J-22 | 8.0 | 130.0 | 33.0 | 0.21 | 0.033 |
| P-48 | 191 | J-22 | J-38 | 8.0 | 130.0 | 51.1 | 0.33 | 0.074 |
| P-49 | 681 | J-38 | J-39 | 8.0 | 130.0 | 16.3 | 0.10 | 0.009 |
| P-51 | 617 | J-40 | J-41 | 8.0 | 130.0 | 6.0 | 0.04 | 0.001 |
| P-53 | 845 | J-42 | J-43 | 8.0 | 130.0 | 6.0 | 0.04 | 0.001 |
| P-54 | 202 | J-43 | J-30 | 8.0 | 130.0 | 33.0 | 0.21 | 0.033 |
| P-55 | 196 | J-30 | J-44 | 8.0 | 130.0 | 35.5 | 0.23 | 0.038 |
| P-56 | 322 | J-44 | J-45 | 8.0 | 130.0 | 13.7 | 0.09 | 0.006 |
| P-57 | 917 | J-45 | J-46 | 8.0 | 130.0 | 7.0 | 0.04 | 0.002 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-58 | 286 | J-46 | J-47 | 8.0 | 130.0 | 9.8 | 0.06 | 0.003 |
| P-59 | 353 | J-47 | J-48 | 8.0 | 130.0 | 2.0 | 0.01 | 0.000 |
| P-60 | 395 | J-48 | J-49 | 8.0 | 130.0 | 2.9 | 0.02 | 0.000 |
| P-61 | 1,032 | J-49 | J-50 | 8.0 | 130.0 | 5.8 | 0.04 | 0.001 |
| P-62 | 784 | J-50 | J-51 | 8.0 | 130.0 | 6.7 | 0.04 | 0.002 |
| P-63 | 320 | J-51 | J-43 | 8.0 | 130.0 | 15.9 | 0.10 | 0.008 |
| P-64 | 1,006 | J-45 | J-46 | 8.0 | 130.0 | 6.7 | 0.04 | 0.002 |
| P-65 | 1,099 | J-44 | J-52 | 8.0 | 130.0 | 5.6 | 0.04 | 0.001 |
| P-66 | 1,206 | J-44 | J-52 | 8.0 | 130.0 | 5.3 | 0.03 | 0.001 |
| P-67 | 480 | J-49 | J-53 | 8.0 | 130.0 | 2.9 | 0.02 | 0.001 |
| P-68 | 463 | J-53 | J-48 | 8.0 | 130.0 | 1.0 | 0.01 | 0.000 |
| P-69 | 261 | J-47 | J-54 | 8.0 | 130.0 | 3.9 | 0.02 | 0.000 |
| P-70 | 754 | J-50 | J-55 | 8.0 | 130.0 | 6.5 | 0.04 | 0.002 |
| P-71 | 884 | J-55 | J-51 | 8.0 | 130.0 | 1.8 | 0.01 | 0.000 |
| P-72 | 126 | J-41 | J-56 | 8.0 | 130.0 | 4.2 | 0.03 | 0.001 |
| P-73 | 122 | J-56 | J-42 | 8.0 | 130.0 | 3.3 | 0.02 | 0.001 |
| P-74 | 184 | J-55 | J-57 | 8.0 | 130.0 | 12.1 | 0.08 | 0.005 |
| P-75 | 321 | J-57 | J-56 | 8.0 | 130.0 | 7.5 | 0.05 | 0.002 |
| P-76 | 708 | J-42 | J-58 | 8.0 | 130.0 | 1.9 | 0.01 | 0.000 |
| P-77 | 680 | J-58 | J-43 | 8.0 | 130.0 | 6.4 | 0.04 | 0.001 |
| P-78 | 481 | J-29 | J-59 | 8.0 | 130.0 | 28.8 | 0.18 | 0.026 |
| P-79 | 182 | J-59 | J-60 | 8.0 | 130.0 | 12.8 | 0.08 | 0.006 |
| P-80 | 1,020 | J-60 | J-61 | 8.0 | 130.0 | 3.5 | 0.02 | 0.000 |
| P-81 | 1,309 | J-61 | J-62 | 8.0 | 130.0 | 1.9 | 0.01 | 0.000 |
| P-82 | 287 | J-62 | J-63 | 8.0 | 130.0 | 2.4 | 0.02 | 0.000 |
| P-83 | 375 | J-63 | J-60 | 8.0 | 130.0 | 3.8 | 0.02 | 0.001 |
| P-84 | 1,038 | J-28 | J-64 | 8.0 | 130.0 | 35.9 | 0.23 | 0.038 |
| P-85 | 268 | J-64 | J-65 | 8.0 | 130.0 | 20.2 | 0.13 | 0.014 |
| P-86 | 175 | J-65 | J-66 | 8.0 | 130.0 | 12.6 | 0.08 | 0.006 |
| P-87 | 128 | J-66 | J-67 | 8.0 | 130.0 | 5.2 | 0.03 | 0.001 |
| P-88 | 151 | J-67 | J-68 | 8.0 | 130.0 | 1.5 | 0.01 | 0.001 |
| P-89 | 224 | J-68 | J-69 | 8.0 | 130.0 | 3.2 | 0.02 | 0.000 |
| P-90 | 189 | J-69 | J-59 | 8.0 | 130.0 | 10.7 | 0.07 | 0.005 |
| P-91 | 870 | J-66 | J-70 | 8.0 | 130.0 | 2.1 | 0.01 | 0.000 |
| P-92 | 762 | J-70 | J-69 | 8.0 | 130.0 | 2.1 | 0.01 | 0.000 |
| P-93 | 415 | J-70 | J-67 | 8.0 | 130.0 | 1.3 | 0.01 | 0.000 |
| P-94 | 979 | J-64 | J-71 | 8.0 | 130.0 | 10.3 | 0.07 | 0.004 |
| P-95 | 707 | J-71 | J-65 | 8.0 | 130.0 | 2.2 | 0.01 | 0.000 |
| P-96 | 471 | J-71 | J-72 | 8.0 | 130.0 | 7.2 | 0.05 | 0.002 |
| P-97 | 308 | J-72 | J-73 | 8.0 | 130.0 | 2.2 | 0.01 | 0.000 |
| P-98 | 378 | J-73 | J-68 | 8.0 | 130.0 | 1.7 | 0.01 | 0.000 |
| P-99 | 522 | J-73 | J-63 | 8.0 | 130.0 | 4.0 | 0.03 | 0.001 |
| P-100 | 496 | J-72 | J-62 | 8.0 | 130.0 | 4.9 | 0.03 | 0.001 |
| P-101 | 124 | J-39 | J-74 | 8.0 | 130.0 | 17.2 | 0.11 | 0.010 |
| P-102 | 128 | J-74 | J-40 | 8.0 | 130.0 | 15.5 | 0.10 | 0.009 |
| P-103 | 320 | J-74 | J-75 | 8.0 | 130.0 | 1.8 | 0.01 | 0.000 |
| P-104 | 185 | J-75 | J-76 | 8.0 | 130.0 | 15.8 | 0.10 | 0.009 |
| P-105 | 586 | J-76 | J-77 | 8.0 | 130.0 | 6.4 | 0.04 | 0.001 |
| P-106 | 182 | J-77 | J-57 | 8.0 | 130.0 | 4.6 | 0.03 | 0.001 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-107 | 632 | J-76 | J-78 | 8.0 | 130.0 | 5.7 | 0.04 | 0.001 |
| P-108 | 631 | J-78 | J-77 | 8.0 | 130.0 | 2.0 | 0.01 | 0.000 |
| P-109 | 935 | J-38 | J-79 | 8.0 | 130.0 | 13.8 | 0.09 | 0.007 |
| P-110 | 179 | J-79 | J-75 | 8.0 | 130.0 | 14.1 | 0.09 | 0.007 |
| P-111 | 1,087 | J-79 | J-80 | 8.0 | 130.0 | 7.0 | 0.04 | 0.002 |
| P-112 | 170 | J-80 | J-81 | 8.0 | 130.0 | 7.0 | 0.04 | 0.002 |
| P-113 | 302 | J-81 | J-82 | 8.0 | 130.0 | 13.5 | 0.09 | 0.006 |
| P-114 | 410 | J-82 | J-83 | 8.0 | 130.0 | 20.0 | 0.13 | 0.013 |
| P-115 | 758 | J-83 | J-37 | 8.0 | 130.0 | 12.6 | 0.08 | 0.006 |
| P-116 | 203 | J-82 | J-84 | 8.0 | 130.0 | 3.2 | 0.02 | 0.001 |
| P-117 | 205 | J-81 | J-85 | 8.0 | 130.0 | 3.2 | 0.02 | 0.001 |
| P-118 | 479 | J-36 | J-83 | 8.0 | 130.0 | 10.7 | 0.07 | 0.004 |
| P-119 | 742 | J-36 | J-86 | 8.0 | 130.0 | 4.7 | 0.03 | 0.001 |
| P-120 | 681 | J-86 | J-37 | 8.0 | 130.0 | 7.9 | 0.05 | 0.003 |
| P-121 | 621 | J-40 | J-87 | 8.0 | 130.0 | 5.7 | 0.04 | 0.001 |
| P-122 | 577 | J-87 | J-41 | 8.0 | 130.0 | 1.9 | 0.01 | 0.000 |
| P-123 | 653 | J-38 | J-88 | 8.0 | 130.0 | 14.4 | 0.09 | 0.007 |
| P-124 | 646 | J-88 | J-39 | 8.0 | 130.0 | 7.7 | 0.05 | 0.002 |
| P-125 | 191 | J-21 | J-89 | 8.0 | 130.0 | 41.6 | 0.27 | 0.051 |
| P-126 | 822 | J-89 | J-90 | 8.0 | 130.0 | 23.8 | 0.15 | 0.018 |
| P-127 | 276 | J-90 | J-91 | 8.0 | 130.0 | 6.9 | 0.04 | 0.002 |
| P-128 | 273 | J-91 | J-92 | 8.0 | 130.0 | 33.1 | 0.21 | 0.033 |
| P-130 | 271 | J-93 | J-94 | 8.0 | 130.0 | 14.5 | 0.09 | 0.007 |
| P-131 | 511 | J-94 | J-95 | 8.0 | 130.0 | 7.1 | 0.05 | 0.002 |
| P-132 | 342 | J-95 | J-96 | 8.0 | 130.0 | 21.5 | 0.14 | 0.015 |
| P-133 | 214 | J-96 | J-89 | 8.0 | 130.0 | 22.3 | 0.14 | 0.016 |
| P-134 | 273 | J-94 | J-91 | 8.0 | 130.0 | 26.2 | 0.17 | 0.021 |
| P-135 | 536 | J-95 | J-90 | 8.0 | 130.0 | 18.9 | 0.12 | 0.012 |
| P-136 | 920 | J-93 | J-97 | 8.0 | 130.0 | 10.0 | 0.06 | 0.004 |
| P-137 | 679 | J-97 | J-96 | 8.0 | 130.0 | 5.4 | 0.03 | 0.001 |
| P-138 | 205 | J-21 | J-98 | 8.0 | 130.0 | 22.9 | 0.15 | 0.017 |
| P-139 | 215 | J-98 | J-99 | 8.0 | 130.0 | 10.2 | 0.07 | 0.003 |
| P-140 | 680 | J-99 | J-100 | 8.0 | 130.0 | 3.6 | 0.02 | 0.001 |
| P-141 | 647 | J-100 | J-101 | 8.0 | 130.0 | 1.5 | 0.01 | 0.000 |
| P-143 | 291 | J-102 | J-103 | 8.0 | 130.0 | 3.6 | 0.02 | 0.000 |
| P-144 | 334 | J-103 | J-104 | 8.0 | 130.0 | 6.5 | 0.04 | 0.002 |
| P-145 | 131 | J-104 | J-98 | 8.0 | 130.0 | 10.6 | 0.07 | 0.004 |
| P-146 | 331 | J-99 | J-105 | 8.0 | 130.0 | 4.6 | 0.03 | 0.001 |
| P-147 | 291 | J-105 | J-106 | 8.0 | 130.0 | 3.4 | 0.02 | 0.000 |
| P-148 | 127 | J-106 | J-101 | 8.0 | 130.0 | 1.1 | 0.01 | 0.000 |
| P-149 | 416 | J-105 | J-103 | 8.0 | 130.0 | 0.9 | 0.01 | 0.000 |
| P-150 | 490 | J-106 | J-102 | 8.0 | 130.0 | 0.2 | 0.00 | 0.000 |
| P-151 | 274 | J-92 | J-107 | 8.0 | 130.0 | 39.4 | 0.25 | 0.046 |
| P-152 | 304 | J-107 | J-31 | 8.0 | 130.0 | 71.3 | 0.46 | 0.137 |
| P-153 | 283 | J-90 | J-108 | 8.0 | 130.0 | 35.9 | 0.23 | 0.038 |
| P-154 | 299 | J-108 | J-32 | 8.0 | 130.0 | 22.8 | 0.15 | 0.017 |
| P-155 | 543 | J-107 | J-108 | 8.0 | 130.0 | 25.6 | 0.16 | 0.021 |
| P-156 | 532 | J-108 | J-109 | 8.0 | 130.0 | 6.3 | 0.04 | 0.002 |
| P-157 | 876 | J-101 | J-110 | 8.0 | 130.0 | 0.5 | 0.00 | 0.000 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-158 | 158 | J-110 | J-102 | 8.0 | 130.0 | 1.7 | 0.01 | 0.000 |
| P-159 | 1,042 | J-104 | J-111 | 8.0 | 130.0 | 4.1 | 0.03 | 0.001 |
| P-160 | 721 | J-111 | J-112 | 8.0 | 130.0 | 2.5 | 0.02 | 0.000 |
| P-161 | 322 | J-112 | J-34 | 8.0 | 130.0 | 16.0 | 0.10 | 0.008 |
| P-162 | 291 | J-110 | J-111 | 8.0 | 130.0 | 0.1 | 0.00 | 0.000 |
| P-163 | 406 | J-112 | J-113 | 8.0 | 130.0 | 6.8 | 0.04 | 0.002 |
| P-164 | 587 | J-10 | J-114 | 8.0 | 130.0 | 10.6 | 0.07 | 0.004 |
| P-165 | 524 | J-114 | J-115 | 8.0 | 130.0 | 20.5 | 0.13 | 0.014 |
| P-166 | 581 | J-115 | J-116 | 8.0 | 130.0 | 16.6 | 0.11 | 0.009 |
| P-167 | 567 | J-116 | J-117 | 8.0 | 130.0 | 21.4 | 0.14 | 0.015 |
| P-168 | 319 | J-117 | J-35 | 8.0 | 130.0 | 44.1 | 0.28 | 0.057 |
| P-169 | 184 | J-115 | J-118 | 8.0 | 130.0 | 6.8 | 0.04 | 0.001 |
| P-170 | 288 | J-118 | J-119 | 8.0 | 130.0 | 12.7 | 0.08 | 0.006 |
| P-171 | 294 | J-119 | J-120 | 8.0 | 130.0 | 18.6 | 0.12 | 0.011 |
| P-172 | 658 | J-120 | J-117 | 8.0 | 130.0 | 19.8 | 0.13 | 0.013 |
| P-173 | 692 | J-116 | J-120 | 8.0 | 130.0 | 1.7 | 0.01 | 0.000 |
| P-174 | 331 | J-119 | J-121 | 8.0 | 130.0 | 3.0 | 0.02 | 0.000 |
| P-175 | 405 | J-118 | J-122 | 8.0 | 130.0 | 3.0 | 0.02 | 0.000 |
| P-176 | 312 | J-35 | J-123 | 8.0 | 130.0 | 4.7 | 0.03 | 0.001 |
| P-177 | 558 | J-123 | J-124 | 8.0 | 130.0 | 4.1 | 0.03 | 0.001 |
| P-178 | 492 | J-124 | J-125 | 8.0 | 130.0 | 1.9 | 0.01 | 0.000 |
| P-179 | 199 | J-125 | J-126 | 8.0 | 130.0 | 8.8 | 0.06 | 0.003 |
| P-180 | 199 | J-126 | J-27 | 8.0 | 130.0 | 16.8 | 0.11 | 0.009 |
| P-181 | 492 | J-123 | J-126 | 8.0 | 130.0 | 3.6 | 0.02 | 0.000 |
| P-182 | 708 | J-124 | J-127 | 8.0 | 130.0 | 1.7 | 0.01 | 0.000 |
| P-183 | 583 | J-127 | J-125 | 8.0 | 130.0 | 2.6 | 0.02 | 0.000 |
| P-184 | 312 | J-34 | J-128 | 8.0 | 130.0 | 18.9 | 0.12 | 0.012 |
| P-185 | 521 | J-128 | J-129 | 8.0 | 130.0 | 18.1 | 0.12 | 0.011 |
| P-186 | 201 | J-129 | J-19 | 8.0 | 130.0 | 47.5 | 0.30 | 0.065 |
| P-187 | 283 | J-128 | J-130 | 8.0 | 130.0 | 0.6 | 0.00 | 0.000 |
| P-188 | 827 | J-130 | J-131 | 8.0 | 130.0 | 1.2 | 0.01 | 0.000 |
| P-189 | 683 | J-131 | J-132 | 8.0 | 130.0 | 4.9 | 0.03 | 0.001 |
| P-190 | 737 | J-132 | J-133 | 8.0 | 130.0 | 8.5 | 0.05 | 0.003 |
| P-191 | 142 | J-133 | J-129 | 8.0 | 130.0 | 25.8 | 0.16 | 0.022 |
| P-192 | 354 | J-133 | J-134 | 8.0 | 130.0 | 13.8 | 0.09 | 0.006 |
| P-193 | 291 | J-134 | J-135 | 8.0 | 130.0 | 5.3 | 0.03 | 0.001 |
| P-194 | 177 | J-135 | J-131 | 8.0 | 130.0 | 0.1 | 0.00 | 0.000 |
| P-195 | 388 | J-134 | J-128 | 8.0 | 130.0 | 4.9 | 0.03 | 0.001 |
| P-196 | 411 | J-130 | J-135 | 8.0 | 130.0 | 1.8 | 0.01 | 0.000 |
| P-198 | 298 | J-136 | J-137 | 8.0 | 130.0 | 11.2 | 0.07 | 0.004 |
| P-199 | 934 | J-137 | J-138 | 8.0 | 130.0 | 3.1 | 0.02 | 0.001 |
| P-200 | 150 | J-138 | J-139 | 8.0 | 130.0 | 2.0 | 0.01 | 0.001 |
| P-201 | 193 | J-139 | J-19 | 8.0 | 130.0 | 11.2 | 0.07 | 0.004 |
| P-202 | 541 | J-136 | J-140 | 8.0 | 130.0 | 15.6 | 0.10 | 0.008 |
| P-203 | 595 | J-140 | J-139 | 8.0 | 130.0 | 17.6 | 0.11 | 0.010 |
| P-204 | 303 | J-32 | J-140 | 8.0 | 130.0 | 37.5 | 0.24 | 0.042 |
| P-205 | 706 | J-137 | J-141 | 8.0 | 130.0 | 3.7 | 0.02 | 0.001 |
| P-206 | 737 | J-141 | J-138 | 8.0 | 130.0 | 0.7 | 0.00 | 0.000 |
| P-207 | 455 | J-24 | J-142 | 8.0 | 130.0 | 24.5 | 0.16 | 0.019 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-208 | 323 | J-142 | J-143 | 8.0 | 130.0 | 10.0 | 0.06 | 0.003 |
| P-209 | 165 | J-143 | J-144 | 8.0 | 130.0 | 5.0 | 0.03 | 0.001 |
| P-210 | 203 | J-144 | J-18 | 8.0 | 130.0 | 0.4 | 0.00 | 0.000 |
| P-211 | 201 | J-142 | J-145 | 8.0 | 130.0 | 11.9 | 0.08 | 0.005 |
| P-212 | 294 | J-145 | J-146 | 8.0 | 130.0 | 7.0 | 0.04 | 0.002 |
| P-213 | 535 | J-147 | J-146 | 8.0 | 130.0 | 2.0 | 0.01 | 0.000 |
| P-214 | 779 | J-147 | J-148 | 8.0 | 130.0 | 1.3 | 0.01 | 0.000 |
| P-215 | 206 | J-148 | J-144 | 8.0 | 130.0 | 5.5 | 0.04 | 0.001 |
| P-216 | 307 | J-146 | J-149 | 8.0 | 130.0 | 2.5 | 0.02 | 0.000 |
| P-217 | 352 | J-145 | J-150 | 8.0 | 130.0 | 2.5 | 0.02 | 0.000 |
| P-218 | 285 | J-143 | J-151 | 8.0 | 130.0 | 2.5 | 0.02 | 0.000 |
| P-219 | 691 | J-147 | J-152 | 8.0 | 130.0 | 0.8 | 0.01 | 0.000 |
| P-220 | 678 | J-152 | J-148 | 8.0 | 130.0 | 1.7 | 0.01 | 0.000 |
| P-221 | 522 | J-18 | J-153 | 8.0 | 130.0 | 52.2 | 0.33 | 0.077 |
| P-222 | 186 | J-153 | J-154 | 8.0 | 130.0 | 28.6 | 0.18 | 0.025 |
| P-223 | 296 | J-154 | J-155 | 8.0 | 130.0 | 22.9 | 0.15 | 0.017 |
| P-224 | 324 | J-155 | J-156 | 8.0 | 130.0 | 17.2 | 0.11 | 0.010 |
| P-225 | 207 | J-156 | J-157 | 8.0 | 130.0 | 11.5 | 0.07 | 0.005 |
| P-226 | 308 | J-157 | J-25 | 8.0 | 130.0 | 15.9 | 0.10 | 0.008 |
| P-227 | 531 | J-154 | J-158 | 8.0 | 130.0 | 1.4 | 0.01 | 0.000 |
| P-228 | 483 | J-158 | J-154 | 8.0 | 130.0 | 1.5 | 0.01 | 0.000 |
| P-229 | 203 | J-155 | J-159 | 8.0 | 130.0 | 2.9 | 0.02 | 0.000 |
| P-230 | 204 | J-156 | J-160 | 8.0 | 130.0 | 2.9 | 0.02 | 0.000 |
| P-231 | 192 | J-153 | J-161 | 8.0 | 130.0 | 20.8 | 0.13 | 0.014 |
| P-232 | 1,123 | J-161 | J-162 | 8.0 | 130.0 | 7.0 | 0.04 | 0.002 |
| P-233 | 742 | J-162 | J-163 | 8.0 | 130.0 | 4.2 | 0.03 | 0.001 |
| P-234 | 629 | J-163 | J-161 | 8.0 | 130.0 | 10.9 | 0.07 | 0.004 |
| P-235 | 384 | J-163 | J-164 | 8.0 | 130.0 | 12.2 | 0.08 | 0.005 |
| P-236 | 649 | J-164 | J-165 | 8.0 | 130.0 | 5.0 | 0.03 | 0.001 |
| P-237 | 146 | J-165 | J-166 | 8.0 | 130.0 | 4.4 | 0.03 | 0.001 |
| P-238 | 193 | J-166 | J-26 | 8.0 | 130.0 | 15.8 | 0.10 | 0.008 |
| P-239 | 651 | J-164 | J-167 | 8.0 | 130.0 | 4.6 | 0.03 | 0.001 |
| P-240 | 630 | J-167 | J-165 | 8.0 | 130.0 | 1.9 | 0.01 | 0.000 |
| P-241 | 179 | J-157 | J-168 | 8.0 | 130.0 | 4.4 | 0.03 | 0.001 |
| P-242 | 278 | J-168 | J-169 | 8.0 | 130.0 | 9.7 | 0.06 | 0.003 |
| P-243 | 318 | J-169 | J-170 | 8.0 | 130.0 | 14.9 | 0.10 | 0.008 |
| P-244 | 165 | J-170 | J-166 | 8.0 | 130.0 | 20.1 | 0.13 | 0.013 |
| P-245 | 194 | J-168 | J-171 | 8.0 | 130.0 | 2.6 | 0.02 | 0.001 |
| P-246 | 203 | J-169 | J-172 | 8.0 | 130.0 | 2.6 | 0.02 | 0.000 |
| P-247 | 259 | J-170 | J-173 | 8.0 | 130.0 | 2.6 | 0.02 | 0.000 |

| Label | Elevation (ft) | Flow (Out net) (gpm) | Hydraulic Grade (ft) |
|-------|----------------|----------------------|----------------------|
| R-1 | 1,390.0 | 676.8 | 1,390.0 |

MAXIMUM DAY DEMAND

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-1 | 1,279.0 | 0.0 | 1,389.2 | 47.7 |
| J-2 | 1,262.1 | 0.0 | 1,384.4 | 52.9 |
| J-3 | 1,256.8 | 0.0 | 1,384.0 | 55.1 |
| J-4 | 1,249.0 | 0.0 | 1,383.8 | 58.3 |
| J-5 | 1,247.4 | 0.0 | 1,383.8 | 59.0 |
| J-6 | 1,255.7 | 0.0 | 1,384.2 | 55.6 |
| J-7 | 1,252.1 | 0.0 | 1,383.9 | 57.0 |
| J-8 | 1,250.7 | 0.0 | 1,383.9 | 57.7 |
| J-9 | 1,245.1 | 0.0 | 1,383.4 | 59.8 |
| J-10 | 1,239.6 | 0.0 | 1,383.3 | 62.1 |
| J-11 | 1,238.6 | 0.0 | 1,383.2 | 62.6 |
| J-12 | 1,237.1 | 0.0 | 1,383.2 | 63.2 |
| J-13 | 1,252.0 | 0.0 | 1,383.7 | 57.0 |
| J-14 | 1,246.7 | 0.0 | 1,383.4 | 59.1 |
| J-15 | 1,245.8 | 196.4 | 1,383.3 | 59.5 |
| J-16 | 1,243.4 | 114.7 | 1,383.2 | 60.5 |
| J-18 | 1,253.3 | 0.0 | 1,383.7 | 56.4 |
| J-19 | 1,250.2 | 0.0 | 1,383.5 | 57.7 |
| J-20 | 1,248.8 | 0.0 | 1,383.5 | 58.3 |
| J-21 | 1,246.9 | 0.0 | 1,383.5 | 59.1 |
| J-22 | 1,243.9 | 0.0 | 1,383.1 | 60.2 |
| J-23 | 1,253.4 | 0.0 | 1,383.8 | 56.4 |
| J-24 | 1,254.0 | 0.0 | 1,383.8 | 56.1 |
| J-25 | 1,247.9 | 0.0 | 1,383.6 | 58.7 |
| J-26 | 1,248.2 | 0.0 | 1,383.6 | 58.6 |
| J-27 | 1,245.1 | 0.0 | 1,383.4 | 59.8 |
| J-28 | 1,244.2 | 0.0 | 1,383.4 | 60.2 |
| J-29 | 1,240.1 | 0.0 | 1,383.3 | 62.0 |
| J-30 | 1,236.9 | 0.0 | 1,383.1 | 63.2 |
| J-31 | 1,252.8 | 0.0 | 1,383.7 | 56.7 |
| J-32 | 1,250.9 | 0.0 | 1,383.6 | 57.4 |
| J-34 | 1,247.8 | 0.0 | 1,383.5 | 58.7 |
| J-35 | 1,245.1 | 0.0 | 1,383.4 | 59.8 |
| J-36 | 1,247.6 | 5.9 | 1,383.1 | 58.6 |
| J-37 | 1,245.2 | 5.9 | 1,383.1 | 59.7 |
| J-38 | 1,243.8 | 11.7 | 1,383.1 | 60.3 |
| J-39 | 1,240.7 | 11.7 | 1,383.0 | 61.6 |
| J-40 | 1,240.5 | 6.6 | 1,383.0 | 61.7 |
| J-41 | 1,238.9 | 6.6 | 1,383.0 | 62.4 |
| J-42 | 1,238.3 | 8.0 | 1,383.0 | 62.6 |
| J-43 | 1,237.4 | 8.0 | 1,383.0 | 63.0 |
| J-44 | 1,236.6 | 19.3 | 1,383.0 | 63.3 |
| J-45 | 1,236.2 | 0.0 | 1,383.0 | 63.5 |
| J-46 | 1,234.6 | 6.8 | 1,383.0 | 64.2 |
| J-47 | 1,234.2 | 6.8 | 1,383.0 | 64.4 |
| J-48 | 1,234.5 | 6.8 | 1,383.0 | 64.3 |
| J-49 | 1,234.5 | 0.0 | 1,383.0 | 64.3 |
| J-50 | 1,236.2 | 12.8 | 1,383.0 | 63.5 |
| J-51 | 1,236.6 | 12.8 | 1,383.0 | 63.4 |
| J-52 | 1,236.9 | 19.3 | 1,383.0 | 63.2 |

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-53 | 1,234.3 | 6.8 | 1,383.0 | 64.4 |
| J-54 | 1,234.0 | 6.8 | 1,383.0 | 64.5 |
| J-55 | 1,237.6 | 12.8 | 1,383.0 | 62.9 |
| J-56 | 1,238.5 | 0.0 | 1,383.0 | 62.5 |
| J-57 | 1,238.0 | 0.0 | 1,383.0 | 62.8 |
| J-58 | 1,238.6 | 8.0 | 1,383.0 | 62.5 |
| J-59 | 1,239.3 | 9.6 | 1,383.2 | 62.3 |
| J-60 | 1,238.7 | 9.6 | 1,383.2 | 62.5 |
| J-61 | 1,238.2 | 9.6 | 1,383.2 | 62.8 |
| J-62 | 1,238.1 | 9.6 | 1,383.2 | 62.8 |
| J-63 | 1,238.4 | 9.6 | 1,383.2 | 62.7 |
| J-64 | 1,240.8 | 9.8 | 1,383.2 | 61.6 |
| J-65 | 1,240.5 | 9.8 | 1,383.2 | 61.8 |
| J-66 | 1,240.6 | 9.8 | 1,383.2 | 61.7 |
| J-67 | 1,240.5 | 9.8 | 1,383.2 | 61.8 |
| J-68 | 1,240.0 | 0.0 | 1,383.2 | 62.0 |
| J-69 | 1,239.5 | 9.6 | 1,383.2 | 62.2 |
| J-70 | 1,241.5 | 9.8 | 1,383.2 | 61.3 |
| J-71 | 1,239.5 | 9.8 | 1,383.2 | 62.2 |
| J-72 | 1,239.0 | 0.0 | 1,383.2 | 62.4 |
| J-73 | 1,239.4 | 0.0 | 1,383.2 | 62.2 |
| J-74 | 1,240.7 | 0.0 | 1,383.0 | 61.6 |
| J-75 | 1,240.2 | 0.0 | 1,383.0 | 61.8 |
| J-76 | 1,240.1 | 6.6 | 1,383.0 | 61.8 |
| J-77 | 1,238.4 | 6.6 | 1,383.0 | 62.6 |
| J-78 | 1,239.8 | 6.6 | 1,383.0 | 62.0 |
| J-79 | 1,240.5 | 11.7 | 1,383.0 | 61.7 |
| J-80 | 1,242.5 | 0.0 | 1,383.1 | 60.8 |
| J-81 | 1,245.6 | 5.9 | 1,383.1 | 59.5 |
| J-82 | 1,245.5 | 5.9 | 1,383.1 | 59.5 |
| J-83 | 1,246.3 | 5.9 | 1,383.1 | 59.2 |
| J-84 | 1,245.3 | 5.9 | 1,383.1 | 59.6 |
| J-85 | 1,244.6 | 5.9 | 1,383.1 | 59.9 |
| J-86 | 1,248.1 | 5.9 | 1,383.1 | 58.4 |
| J-87 | 1,239.7 | 6.6 | 1,383.0 | 62.0 |
| J-88 | 1,243.9 | 11.7 | 1,383.1 | 60.2 |
| J-89 | 1,247.8 | 7.9 | 1,383.5 | 58.7 |
| J-90 | 1,250.2 | 0.0 | 1,383.5 | 57.7 |
| J-91 | 1,252.1 | 0.0 | 1,383.5 | 56.9 |
| J-92 | 1,253.0 | 12.0 | 1,383.6 | 56.5 |
| J-93 | 1,251.6 | 7.9 | 1,383.5 | 57.1 |
| J-94 | 1,250.6 | 7.9 | 1,383.5 | 57.5 |
| J-95 | 1,249.7 | 7.9 | 1,383.5 | 57.9 |
| J-96 | 1,246.5 | 7.9 | 1,383.5 | 59.3 |
| J-97 | 1,249.0 | 7.9 | 1,383.5 | 58.2 |
| J-98 | 1,246.2 | 3.7 | 1,383.5 | 59.4 |
| J-99 | 1,245.4 | 3.7 | 1,383.5 | 59.7 |
| J-100 | 1,243.5 | 3.7 | 1,383.5 | 60.5 |
| J-101 | 1,243.3 | 3.7 | 1,383.5 | 60.6 |
| J-102 | 1,244.5 | 3.7 | 1,383.5 | 60.1 |

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-103 | 1,245.3 | 3.7 | 1,383.5 | 59.8 |
| J-104 | 1,246.3 | 0.0 | 1,383.5 | 59.3 |
| J-105 | 1,243.8 | 3.7 | 1,383.5 | 60.4 |
| J-106 | 1,243.2 | 3.7 | 1,383.5 | 60.7 |
| J-107 | 1,252.6 | 12.0 | 1,383.6 | 56.7 |
| J-108 | 1,250.8 | 12.0 | 1,383.6 | 57.4 |
| J-109 | 1,248.9 | 12.0 | 1,383.6 | 58.3 |
| J-110 | 1,244.2 | 3.7 | 1,383.5 | 60.3 |
| J-111 | 1,244.5 | 12.2 | 1,383.5 | 60.1 |
| J-112 | 1,247.1 | 12.2 | 1,383.5 | 59.0 |
| J-113 | 1,248.5 | 12.2 | 1,383.5 | 58.4 |
| J-114 | 1,241.3 | 48.4 | 1,383.3 | 61.4 |
| J-115 | 1,242.7 | 5.2 | 1,383.3 | 60.8 |
| J-116 | 1,243.9 | 5.2 | 1,383.3 | 60.3 |
| J-117 | 1,244.9 | 5.2 | 1,383.3 | 59.9 |
| J-118 | 1,242.4 | 5.2 | 1,383.3 | 60.9 |
| J-119 | 1,241.9 | 5.2 | 1,383.3 | 61.2 |
| J-120 | 1,242.7 | 5.2 | 1,383.3 | 60.8 |
| J-121 | 1,240.8 | 5.2 | 1,383.3 | 61.7 |
| J-122 | 1,241.3 | 5.2 | 1,383.3 | 61.4 |
| J-123 | 1,246.2 | 7.2 | 1,383.4 | 59.4 |
| J-124 | 1,247.0 | 7.2 | 1,383.4 | 59.0 |
| J-125 | 1,246.0 | 7.2 | 1,383.4 | 59.4 |
| J-126 | 1,245.3 | 7.2 | 1,383.4 | 59.7 |
| J-127 | 1,247.3 | 7.2 | 1,383.4 | 58.9 |
| J-128 | 1,248.9 | 6.4 | 1,383.5 | 58.2 |
| J-129 | 1,249.5 | 6.4 | 1,383.5 | 58.0 |
| J-130 | 1,248.0 | 6.4 | 1,383.5 | 58.6 |
| J-131 | 1,248.0 | 6.4 | 1,383.5 | 58.6 |
| J-132 | 1,250.1 | 6.4 | 1,383.5 | 57.7 |
| J-133 | 1,249.9 | 6.4 | 1,383.5 | 57.8 |
| J-134 | 1,249.7 | 6.4 | 1,383.5 | 57.9 |
| J-135 | 1,248.6 | 6.4 | 1,383.5 | 58.4 |
| J-136 | 1,254.3 | 8.1 | 1,383.5 | 55.9 |
| J-137 | 1,254.1 | 8.1 | 1,383.5 | 56.0 |
| J-138 | 1,251.2 | 8.1 | 1,383.5 | 57.3 |
| J-139 | 1,250.9 | 8.1 | 1,383.5 | 57.4 |
| J-140 | 1,251.9 | 8.1 | 1,383.6 | 57.0 |
| J-141 | 1,253.0 | 8.1 | 1,383.5 | 56.5 |
| J-142 | 1,255.5 | 4.3 | 1,383.8 | 55.5 |
| J-143 | 1,254.1 | 4.3 | 1,383.8 | 56.1 |
| J-144 | 1,254.6 | 0.0 | 1,383.7 | 55.9 |
| J-145 | 1,256.4 | 4.3 | 1,383.8 | 55.1 |
| J-146 | 1,257.5 | 4.3 | 1,383.7 | 54.6 |
| J-147 | 1,258.8 | 4.3 | 1,383.7 | 54.0 |
| J-148 | 1,255.5 | 4.3 | 1,383.7 | 55.5 |
| J-149 | 1,257.0 | 4.3 | 1,383.7 | 54.9 |
| J-150 | 1,255.2 | 4.3 | 1,383.8 | 55.6 |
| J-151 | 1,253.4 | 4.3 | 1,383.8 | 56.4 |
| J-152 | 1,258.0 | 4.3 | 1,383.7 | 54.4 |

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-153 | 1,252.8 | 5.1 | 1,383.6 | 56.6 |
| J-154 | 1,252.2 | 5.1 | 1,383.6 | 56.9 |
| J-155 | 1,251.3 | 5.1 | 1,383.6 | 57.2 |
| J-156 | 1,249.9 | 5.1 | 1,383.6 | 57.8 |
| J-157 | 1,248.4 | 0.0 | 1,383.6 | 58.5 |
| J-158 | 1,252.0 | 5.1 | 1,383.6 | 56.9 |
| J-159 | 1,250.9 | 5.1 | 1,383.6 | 57.4 |
| J-160 | 1,249.8 | 5.1 | 1,383.6 | 57.9 |
| J-161 | 1,253.4 | 5.1 | 1,383.6 | 56.4 |
| J-162 | 1,253.4 | 5.1 | 1,383.6 | 56.3 |
| J-163 | 1,251.0 | 5.1 | 1,383.6 | 57.4 |
| J-164 | 1,250.7 | 4.5 | 1,383.6 | 57.5 |
| J-165 | 1,250.1 | 4.5 | 1,383.6 | 57.8 |
| J-166 | 1,248.4 | 0.0 | 1,383.6 | 58.5 |
| J-167 | 1,250.4 | 4.5 | 1,383.6 | 57.6 |
| J-168 | 1,248.4 | 4.5 | 1,383.6 | 58.5 |
| J-169 | 1,248.3 | 4.5 | 1,383.6 | 58.6 |
| J-170 | 1,248.2 | 4.5 | 1,383.6 | 58.6 |
| J-171 | 1,248.3 | 4.5 | 1,383.6 | 58.5 |
| J-172 | 1,248.2 | 4.5 | 1,383.6 | 58.6 |
| J-173 | 1,248.1 | 4.5 | 1,383.6 | 58.6 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-1 | 6,697 | R-1 | J-1 | 24.0 | 130.0 | 1,222.1 | 0.87 | 0.126 |
| P-2 | 5,240 | J-1 | J-2 | 16.0 | 130.0 | 1,222.1 | 1.95 | 0.905 |
| P-3 | 1,269 | J-2 | J-3 | 16.0 | 130.0 | 671.6 | 1.07 | 0.299 |
| P-5 | 1,499 | J-4 | J-5 | 16.0 | 130.0 | 0.0 | 0.00 | 0.000 |
| P-6 | 1,173 | J-2 | J-6 | 16.0 | 130.0 | 550.5 | 0.88 | 0.207 |
| P-7 | 2,438 | J-6 | J-7 | 16.0 | 130.0 | 388.5 | 0.62 | 0.108 |
| P-8 | 1,287 | J-7 | J-8 | 16.0 | 130.0 | 0.0 | 0.00 | 0.000 |
| P-9 | 1,119 | J-4 | J-9 | 8.0 | 130.0 | 123.0 | 0.78 | 0.377 |
| P-10 | 1,736 | J-9 | J-10 | 8.0 | 130.0 | 45.5 | 0.29 | 0.060 |
| P-11 | 1,002 | J-10 | J-11 | 8.0 | 130.0 | 30.2 | 0.19 | 0.028 |
| P-12 | 1,325 | J-11 | J-12 | 8.0 | 130.0 | 0.0 | 0.00 | 0.000 |
| P-15 | 448 | J-14 | J-15 | 12.0 | 130.0 | 311.0 | 0.88 | 0.292 |
| P-16 | 709 | J-15 | J-16 | 12.0 | 130.0 | 114.7 | 0.33 | 0.046 |
| P-18 | 678 | J-6 | J-18 | 8.0 | 130.0 | 161.9 | 1.03 | 0.627 |
| P-19 | 569 | J-18 | J-13 | 8.0 | 130.0 | 67.2 | 0.43 | 0.123 |
| P-20 | 614 | J-13 | J-19 | 8.0 | 130.0 | 95.2 | 0.61 | 0.235 |
| P-21 | 488 | J-19 | J-20 | 8.0 | 130.0 | 29.8 | 0.19 | 0.027 |
| P-22 | 999 | J-20 | J-21 | 8.0 | 130.0 | 39.3 | 0.25 | 0.046 |
| P-23 | 712 | J-21 | J-9 | 8.0 | 130.0 | 71.6 | 0.46 | 0.138 |
| P-24 | 508 | J-9 | J-22 | 8.0 | 130.0 | 149.1 | 0.95 | 0.538 |
| P-25 | 1,073 | J-3 | J-23 | 16.0 | 130.0 | 545.9 | 0.87 | 0.203 |
| P-26 | 1,565 | J-23 | J-4 | 16.0 | 130.0 | 123.0 | 0.20 | 0.013 |
| P-27 | 658 | J-3 | J-24 | 8.0 | 130.0 | 125.7 | 0.80 | 0.392 |
| P-28 | 569 | J-24 | J-13 | 8.0 | 130.0 | 81.5 | 0.52 | 0.176 |
| P-29 | 1,284 | J-13 | J-25 | 8.0 | 130.0 | 53.4 | 0.34 | 0.080 |
| P-30 | 909 | J-25 | J-14 | 8.0 | 130.0 | 82.6 | 0.53 | 0.180 |
| P-31 | 696 | J-7 | J-26 | 12.0 | 130.0 | 388.5 | 1.10 | 0.440 |
| P-32 | 495 | J-26 | J-14 | 12.0 | 130.0 | 362.9 | 1.03 | 0.388 |
| P-33 | 660 | J-14 | J-27 | 12.0 | 130.0 | 134.5 | 0.38 | 0.062 |
| P-34 | 449 | J-27 | J-28 | 12.0 | 130.0 | 111.1 | 0.32 | 0.043 |
| P-35 | 1,266 | J-28 | J-29 | 12.0 | 130.0 | 142.4 | 0.40 | 0.069 |
| P-36 | 661 | J-29 | J-11 | 12.0 | 130.0 | 89.6 | 0.25 | 0.029 |
| P-37 | 520 | J-11 | J-30 | 8.0 | 130.0 | 119.8 | 0.76 | 0.359 |
| P-39 | 545 | J-31 | J-32 | 12.0 | 130.0 | 294.1 | 0.83 | 0.263 |
| P-40 | 651 | J-32 | J-20 | 12.0 | 130.0 | 184.7 | 0.52 | 0.111 |
| P-42 | 159 | J-23 | J-31 | 12.0 | 130.0 | 422.9 | 1.20 | 0.515 |
| P-43 | 522 | J-20 | J-34 | 12.0 | 130.0 | 175.2 | 0.50 | 0.101 |
| P-44 | 927 | J-34 | J-35 | 12.0 | 130.0 | 181.6 | 0.52 | 0.108 |
| P-45 | 549 | J-35 | J-28 | 12.0 | 130.0 | 94.6 | 0.27 | 0.032 |
| P-46 | 724 | J-36 | J-37 | 8.0 | 130.0 | 16.5 | 0.11 | 0.009 |
| P-47 | 194 | J-37 | J-22 | 8.0 | 130.0 | 58.9 | 0.38 | 0.096 |
| P-48 | 191 | J-22 | J-38 | 8.0 | 130.0 | 90.2 | 0.58 | 0.212 |
| P-49 | 681 | J-38 | J-39 | 8.0 | 130.0 | 28.7 | 0.18 | 0.025 |
| P-51 | 617 | J-40 | J-41 | 8.0 | 130.0 | 10.7 | 0.07 | 0.004 |
| P-53 | 845 | J-42 | J-43 | 8.0 | 130.0 | 10.5 | 0.07 | 0.004 |
| P-54 | 202 | J-43 | J-30 | 8.0 | 130.0 | 57.4 | 0.37 | 0.092 |
| P-55 | 196 | J-30 | J-44 | 8.0 | 130.0 | 62.4 | 0.40 | 0.107 |
| P-56 | 322 | J-44 | J-45 | 8.0 | 130.0 | 23.8 | 0.15 | 0.018 |
| P-57 | 917 | J-45 | J-46 | 8.0 | 130.0 | 12.2 | 0.08 | 0.005 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-58 | 286 | J-46 | J-47 | 8.0 | 130.0 | 17.0 | 0.11 | 0.009 |
| P-59 | 353 | J-47 | J-48 | 8.0 | 130.0 | 3.3 | 0.02 | 0.001 |
| P-60 | 395 | J-48 | J-49 | 8.0 | 130.0 | 5.2 | 0.03 | 0.001 |
| P-61 | 1,032 | J-49 | J-50 | 8.0 | 130.0 | 10.3 | 0.07 | 0.004 |
| P-62 | 784 | J-50 | J-51 | 8.0 | 130.0 | 11.8 | 0.08 | 0.005 |
| P-63 | 320 | J-51 | J-43 | 8.0 | 130.0 | 27.7 | 0.18 | 0.024 |
| P-64 | 1,006 | J-45 | J-46 | 8.0 | 130.0 | 11.6 | 0.07 | 0.005 |
| P-65 | 1,099 | J-44 | J-52 | 8.0 | 130.0 | 9.9 | 0.06 | 0.004 |
| P-66 | 1,206 | J-44 | J-52 | 8.0 | 130.0 | 9.4 | 0.06 | 0.003 |
| P-67 | 480 | J-49 | J-53 | 8.0 | 130.0 | 5.1 | 0.03 | 0.001 |
| P-68 | 463 | J-53 | J-48 | 8.0 | 130.0 | 1.7 | 0.01 | 0.000 |
| P-69 | 261 | J-47 | J-54 | 8.0 | 130.0 | 6.8 | 0.04 | 0.002 |
| P-70 | 754 | J-50 | J-55 | 8.0 | 130.0 | 11.4 | 0.07 | 0.005 |
| P-71 | 884 | J-55 | J-51 | 8.0 | 130.0 | 3.1 | 0.02 | 0.000 |
| P-72 | 126 | J-41 | J-56 | 8.0 | 130.0 | 7.5 | 0.05 | 0.002 |
| P-73 | 122 | J-56 | J-42 | 8.0 | 130.0 | 5.6 | 0.04 | 0.001 |
| P-74 | 184 | J-55 | J-57 | 8.0 | 130.0 | 21.1 | 0.13 | 0.015 |
| P-75 | 321 | J-57 | J-56 | 8.0 | 130.0 | 13.1 | 0.08 | 0.006 |
| P-76 | 708 | J-42 | J-58 | 8.0 | 130.0 | 3.1 | 0.02 | 0.000 |
| P-77 | 680 | J-58 | J-43 | 8.0 | 130.0 | 11.2 | 0.07 | 0.004 |
| P-78 | 481 | J-29 | J-59 | 8.0 | 130.0 | 52.8 | 0.34 | 0.079 |
| P-79 | 182 | J-59 | J-60 | 8.0 | 130.0 | 23.2 | 0.15 | 0.017 |
| P-80 | 1,020 | J-60 | J-61 | 8.0 | 130.0 | 6.3 | 0.04 | 0.001 |
| P-81 | 1,309 | J-61 | J-62 | 8.0 | 130.0 | 3.3 | 0.02 | 0.000 |
| P-82 | 287 | J-62 | J-63 | 8.0 | 130.0 | 4.4 | 0.03 | 0.001 |
| P-83 | 375 | J-63 | J-60 | 8.0 | 130.0 | 7.3 | 0.05 | 0.002 |
| P-84 | 1,038 | J-28 | J-64 | 8.0 | 130.0 | 63.3 | 0.40 | 0.110 |
| P-85 | 268 | J-64 | J-65 | 8.0 | 130.0 | 35.5 | 0.23 | 0.038 |
| P-86 | 175 | J-65 | J-66 | 8.0 | 130.0 | 21.8 | 0.14 | 0.015 |
| P-87 | 128 | J-66 | J-67 | 8.0 | 130.0 | 8.6 | 0.05 | 0.003 |
| P-88 | 151 | J-67 | J-68 | 8.0 | 130.0 | 3.4 | 0.02 | 0.001 |
| P-89 | 224 | J-68 | J-69 | 8.0 | 130.0 | 6.4 | 0.04 | 0.002 |
| P-90 | 189 | J-69 | J-59 | 8.0 | 130.0 | 20.0 | 0.13 | 0.013 |
| P-91 | 870 | J-66 | J-70 | 8.0 | 130.0 | 3.5 | 0.02 | 0.001 |
| P-92 | 762 | J-70 | J-69 | 8.0 | 130.0 | 4.1 | 0.03 | 0.001 |
| P-93 | 415 | J-70 | J-67 | 8.0 | 130.0 | 2.2 | 0.01 | 0.000 |
| P-94 | 979 | J-64 | J-71 | 8.0 | 130.0 | 18.1 | 0.12 | 0.011 |
| P-95 | 707 | J-71 | J-65 | 8.0 | 130.0 | 3.9 | 0.02 | 0.001 |
| P-96 | 471 | J-71 | J-72 | 8.0 | 130.0 | 12.2 | 0.08 | 0.005 |
| P-97 | 308 | J-72 | J-73 | 8.0 | 130.0 | 3.8 | 0.02 | 0.000 |
| P-98 | 378 | J-73 | J-68 | 8.0 | 130.0 | 2.9 | 0.02 | 0.000 |
| P-99 | 522 | J-73 | J-63 | 8.0 | 130.0 | 6.7 | 0.04 | 0.002 |
| P-100 | 496 | J-72 | J-62 | 8.0 | 130.0 | 8.4 | 0.05 | 0.003 |
| P-101 | 124 | J-39 | J-74 | 8.0 | 130.0 | 30.6 | 0.20 | 0.029 |
| P-102 | 128 | J-74 | J-40 | 8.0 | 130.0 | 27.3 | 0.17 | 0.023 |
| P-103 | 320 | J-74 | J-75 | 8.0 | 130.0 | 3.3 | 0.02 | 0.000 |
| P-104 | 185 | J-75 | J-76 | 8.0 | 130.0 | 27.8 | 0.18 | 0.024 |
| P-105 | 586 | J-76 | J-77 | 8.0 | 130.0 | 11.2 | 0.07 | 0.004 |
| P-106 | 182 | J-77 | J-57 | 8.0 | 130.0 | 8.1 | 0.05 | 0.003 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-107 | 632 | J-76 | J-78 | 8.0 | 130.0 | 10.0 | 0.06 | 0.004 |
| P-108 | 631 | J-78 | J-77 | 8.0 | 130.0 | 3.4 | 0.02 | 0.000 |
| P-109 | 935 | J-38 | J-79 | 8.0 | 130.0 | 24.4 | 0.16 | 0.019 |
| P-110 | 179 | J-79 | J-75 | 8.0 | 130.0 | 24.6 | 0.16 | 0.019 |
| P-111 | 1,087 | J-79 | J-80 | 8.0 | 130.0 | 12.0 | 0.08 | 0.005 |
| P-112 | 170 | J-80 | J-81 | 8.0 | 130.0 | 12.0 | 0.08 | 0.005 |
| P-113 | 302 | J-81 | J-82 | 8.0 | 130.0 | 23.7 | 0.15 | 0.018 |
| P-114 | 410 | J-82 | J-83 | 8.0 | 130.0 | 35.4 | 0.23 | 0.038 |
| P-115 | 758 | J-83 | J-37 | 8.0 | 130.0 | 22.4 | 0.14 | 0.016 |
| P-116 | 203 | J-82 | J-84 | 8.0 | 130.0 | 5.9 | 0.04 | 0.002 |
| P-117 | 205 | J-81 | J-85 | 8.0 | 130.0 | 5.9 | 0.04 | 0.001 |
| P-118 | 479 | J-36 | J-83 | 8.0 | 130.0 | 18.9 | 0.12 | 0.012 |
| P-119 | 742 | J-36 | J-86 | 8.0 | 130.0 | 8.3 | 0.05 | 0.002 |
| P-120 | 681 | J-86 | J-37 | 8.0 | 130.0 | 14.2 | 0.09 | 0.007 |
| P-121 | 621 | J-40 | J-87 | 8.0 | 130.0 | 10.0 | 0.06 | 0.004 |
| P-122 | 577 | J-87 | J-41 | 8.0 | 130.0 | 3.4 | 0.02 | 0.000 |
| P-123 | 653 | J-38 | J-88 | 8.0 | 130.0 | 25.3 | 0.16 | 0.020 |
| P-124 | 646 | J-88 | J-39 | 8.0 | 130.0 | 13.6 | 0.09 | 0.006 |
| P-125 | 191 | J-21 | J-89 | 8.0 | 130.0 | 74.7 | 0.48 | 0.150 |
| P-126 | 822 | J-89 | J-90 | 8.0 | 130.0 | 42.4 | 0.27 | 0.052 |
| P-127 | 276 | J-90 | J-91 | 8.0 | 130.0 | 12.4 | 0.08 | 0.005 |
| P-128 | 273 | J-91 | J-92 | 8.0 | 130.0 | 58.7 | 0.37 | 0.096 |
| P-130 | 271 | J-93 | J-94 | 8.0 | 130.0 | 25.7 | 0.16 | 0.021 |
| P-131 | 511 | J-94 | J-95 | 8.0 | 130.0 | 12.6 | 0.08 | 0.005 |
| P-132 | 342 | J-95 | J-96 | 8.0 | 130.0 | 38.2 | 0.24 | 0.043 |
| P-133 | 214 | J-96 | J-89 | 8.0 | 130.0 | 40.2 | 0.26 | 0.047 |
| P-134 | 273 | J-94 | J-91 | 8.0 | 130.0 | 46.2 | 0.30 | 0.062 |
| P-135 | 536 | J-95 | J-90 | 8.0 | 130.0 | 33.5 | 0.21 | 0.034 |
| P-136 | 920 | J-93 | J-97 | 8.0 | 130.0 | 17.8 | 0.11 | 0.010 |
| P-137 | 679 | J-97 | J-96 | 8.0 | 130.0 | 9.9 | 0.06 | 0.003 |
| P-138 | 205 | J-21 | J-98 | 8.0 | 130.0 | 42.4 | 0.27 | 0.052 |
| P-139 | 215 | J-98 | J-99 | 8.0 | 130.0 | 18.9 | 0.12 | 0.012 |
| P-140 | 680 | J-99 | J-100 | 8.0 | 130.0 | 6.6 | 0.04 | 0.002 |
| P-141 | 647 | J-100 | J-101 | 8.0 | 130.0 | 3.0 | 0.02 | 0.000 |
| P-143 | 291 | J-102 | J-103 | 8.0 | 130.0 | 6.8 | 0.04 | 0.002 |
| P-144 | 334 | J-103 | J-104 | 8.0 | 130.0 | 12.1 | 0.08 | 0.005 |
| P-145 | 131 | J-104 | J-98 | 8.0 | 130.0 | 19.8 | 0.13 | 0.013 |
| P-146 | 331 | J-99 | J-105 | 8.0 | 130.0 | 8.6 | 0.05 | 0.003 |
| P-147 | 291 | J-105 | J-106 | 8.0 | 130.0 | 6.4 | 0.04 | 0.001 |
| P-148 | 127 | J-106 | J-101 | 8.0 | 130.0 | 2.1 | 0.01 | 0.001 |
| P-149 | 416 | J-105 | J-103 | 8.0 | 130.0 | 1.5 | 0.01 | 0.000 |
| P-150 | 490 | J-106 | J-102 | 8.0 | 130.0 | 0.6 | 0.00 | 0.000 |
| P-151 | 274 | J-92 | J-107 | 8.0 | 130.0 | 70.7 | 0.45 | 0.135 |
| P-152 | 304 | J-107 | J-31 | 8.0 | 130.0 | 128.8 | 0.82 | 0.411 |
| P-153 | 283 | J-90 | J-108 | 8.0 | 130.0 | 63.5 | 0.41 | 0.111 |
| P-154 | 299 | J-108 | J-32 | 8.0 | 130.0 | 41.3 | 0.26 | 0.050 |
| P-155 | 543 | J-107 | J-108 | 8.0 | 130.0 | 46.2 | 0.29 | 0.061 |
| P-156 | 532 | J-108 | J-109 | 8.0 | 130.0 | 12.0 | 0.08 | 0.005 |
| P-157 | 876 | J-101 | J-110 | 8.0 | 130.0 | 1.4 | 0.01 | 0.000 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-158 | 158 | J-110 | J-102 | 8.0 | 130.0 | 3.8 | 0.02 | 0.001 |
| P-159 | 1,042 | J-104 | J-111 | 8.0 | 130.0 | 7.8 | 0.05 | 0.002 |
| P-160 | 721 | J-111 | J-112 | 8.0 | 130.0 | 3.0 | 0.02 | 0.000 |
| P-161 | 322 | J-112 | J-34 | 8.0 | 130.0 | 27.5 | 0.18 | 0.023 |
| P-162 | 291 | J-110 | J-111 | 8.0 | 130.0 | 1.5 | 0.01 | 0.000 |
| P-163 | 406 | J-112 | J-113 | 8.0 | 130.0 | 12.2 | 0.08 | 0.005 |
| P-164 | 587 | J-10 | J-114 | 8.0 | 130.0 | 15.3 | 0.10 | 0.008 |
| P-165 | 524 | J-114 | J-115 | 8.0 | 130.0 | 33.1 | 0.21 | 0.033 |
| P-166 | 581 | J-115 | J-116 | 8.0 | 130.0 | 27.7 | 0.18 | 0.024 |
| P-167 | 567 | J-116 | J-117 | 8.0 | 130.0 | 35.9 | 0.23 | 0.039 |
| P-168 | 319 | J-117 | J-35 | 8.0 | 130.0 | 74.3 | 0.47 | 0.148 |
| P-169 | 184 | J-115 | J-118 | 8.0 | 130.0 | 10.6 | 0.07 | 0.004 |
| P-170 | 288 | J-118 | J-119 | 8.0 | 130.0 | 20.9 | 0.13 | 0.014 |
| P-171 | 294 | J-119 | J-120 | 8.0 | 130.0 | 31.2 | 0.20 | 0.030 |
| P-172 | 658 | J-120 | J-117 | 8.0 | 130.0 | 33.3 | 0.21 | 0.034 |
| P-173 | 692 | J-116 | J-120 | 8.0 | 130.0 | 3.0 | 0.02 | 0.000 |
| P-174 | 331 | J-119 | J-121 | 8.0 | 130.0 | 5.2 | 0.03 | 0.001 |
| P-175 | 405 | J-118 | J-122 | 8.0 | 130.0 | 5.2 | 0.03 | 0.001 |
| P-176 | 312 | J-35 | J-123 | 8.0 | 130.0 | 12.7 | 0.08 | 0.005 |
| P-177 | 558 | J-123 | J-124 | 8.0 | 130.0 | 7.9 | 0.05 | 0.002 |
| P-178 | 492 | J-124 | J-125 | 8.0 | 130.0 | 2.4 | 0.02 | 0.000 |
| P-179 | 199 | J-125 | J-126 | 8.0 | 130.0 | 13.8 | 0.09 | 0.007 |
| P-180 | 199 | J-126 | J-27 | 8.0 | 130.0 | 23.3 | 0.15 | 0.017 |
| P-181 | 492 | J-123 | J-126 | 8.0 | 130.0 | 2.4 | 0.02 | 0.000 |
| P-182 | 708 | J-124 | J-127 | 8.0 | 130.0 | 3.1 | 0.02 | 0.000 |
| P-183 | 583 | J-127 | J-125 | 8.0 | 130.0 | 4.1 | 0.03 | 0.001 |
| P-184 | 312 | J-34 | J-128 | 8.0 | 130.0 | 33.9 | 0.22 | 0.034 |
| P-185 | 521 | J-128 | J-129 | 8.0 | 130.0 | 32.5 | 0.21 | 0.032 |
| P-186 | 201 | J-129 | J-19 | 8.0 | 130.0 | 85.1 | 0.54 | 0.190 |
| P-187 | 283 | J-128 | J-130 | 8.0 | 130.0 | 1.0 | 0.01 | 0.000 |
| P-188 | 827 | J-130 | J-131 | 8.0 | 130.0 | 2.2 | 0.01 | 0.000 |
| P-189 | 683 | J-131 | J-132 | 8.0 | 130.0 | 8.8 | 0.06 | 0.003 |
| P-190 | 737 | J-132 | J-133 | 8.0 | 130.0 | 15.2 | 0.10 | 0.008 |
| P-191 | 142 | J-133 | J-129 | 8.0 | 130.0 | 46.3 | 0.30 | 0.062 |
| P-192 | 354 | J-133 | J-134 | 8.0 | 130.0 | 24.6 | 0.16 | 0.019 |
| P-193 | 291 | J-134 | J-135 | 8.0 | 130.0 | 9.4 | 0.06 | 0.003 |
| P-194 | 177 | J-135 | J-131 | 8.0 | 130.0 | 0.2 | 0.00 | 0.000 |
| P-195 | 388 | J-134 | J-128 | 8.0 | 130.0 | 8.8 | 0.06 | 0.003 |
| P-196 | 411 | J-130 | J-135 | 8.0 | 130.0 | 3.2 | 0.02 | 0.001 |
| P-198 | 298 | J-136 | J-137 | 8.0 | 130.0 | 20.2 | 0.13 | 0.014 |
| P-199 | 934 | J-137 | J-138 | 8.0 | 130.0 | 5.5 | 0.04 | 0.001 |
| P-200 | 150 | J-138 | J-139 | 8.0 | 130.0 | 4.0 | 0.03 | 0.001 |
| P-201 | 193 | J-139 | J-19 | 8.0 | 130.0 | 19.7 | 0.13 | 0.013 |
| P-202 | 541 | J-136 | J-140 | 8.0 | 130.0 | 28.2 | 0.18 | 0.025 |
| P-203 | 595 | J-140 | J-139 | 8.0 | 130.0 | 31.8 | 0.20 | 0.031 |
| P-204 | 303 | J-32 | J-140 | 8.0 | 130.0 | 68.1 | 0.43 | 0.126 |
| P-205 | 706 | J-137 | J-141 | 8.0 | 130.0 | 6.6 | 0.04 | 0.002 |
| P-206 | 737 | J-141 | J-138 | 8.0 | 130.0 | 1.5 | 0.01 | 0.000 |
| P-207 | 455 | J-24 | J-142 | 8.0 | 130.0 | 44.3 | 0.28 | 0.057 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-208 | 323 | J-142 | J-143 | 8.0 | 130.0 | 18.5 | 0.12 | 0.011 |
| P-209 | 165 | J-143 | J-144 | 8.0 | 130.0 | 9.8 | 0.06 | 0.004 |
| P-210 | 203 | J-144 | J-18 | 8.0 | 130.0 | 0.8 | 0.00 | 0.000 |
| P-211 | 201 | J-142 | J-145 | 8.0 | 130.0 | 21.4 | 0.14 | 0.015 |
| P-212 | 294 | J-145 | J-146 | 8.0 | 130.0 | 12.7 | 0.08 | 0.005 |
| P-213 | 535 | J-147 | J-146 | 8.0 | 130.0 | 4.0 | 0.03 | 0.001 |
| P-214 | 779 | J-147 | J-148 | 8.0 | 130.0 | 2.0 | 0.01 | 0.000 |
| P-215 | 206 | J-148 | J-144 | 8.0 | 130.0 | 9.0 | 0.06 | 0.003 |
| P-216 | 307 | J-146 | J-149 | 8.0 | 130.0 | 4.3 | 0.03 | 0.001 |
| P-217 | 352 | J-145 | J-150 | 8.0 | 130.0 | 4.3 | 0.03 | 0.001 |
| P-218 | 285 | J-143 | J-151 | 8.0 | 130.0 | 4.3 | 0.03 | 0.001 |
| P-219 | 691 | J-147 | J-152 | 8.0 | 130.0 | 1.6 | 0.01 | 0.000 |
| P-220 | 678 | J-152 | J-148 | 8.0 | 130.0 | 2.7 | 0.02 | 0.000 |
| P-221 | 522 | J-18 | J-153 | 8.0 | 130.0 | 95.5 | 0.61 | 0.236 |
| P-222 | 186 | J-153 | J-154 | 8.0 | 130.0 | 51.9 | 0.33 | 0.076 |
| P-223 | 296 | J-154 | J-155 | 8.0 | 130.0 | 41.7 | 0.27 | 0.051 |
| P-224 | 324 | J-155 | J-156 | 8.0 | 130.0 | 31.5 | 0.20 | 0.030 |
| P-225 | 207 | J-156 | J-157 | 8.0 | 130.0 | 21.3 | 0.14 | 0.015 |
| P-226 | 308 | J-157 | J-25 | 8.0 | 130.0 | 29.2 | 0.19 | 0.026 |
| P-227 | 531 | J-154 | J-158 | 8.0 | 130.0 | 2.5 | 0.02 | 0.000 |
| P-228 | 483 | J-158 | J-154 | 8.0 | 130.0 | 2.6 | 0.02 | 0.000 |
| P-229 | 203 | J-155 | J-159 | 8.0 | 130.0 | 5.1 | 0.03 | 0.001 |
| P-230 | 204 | J-156 | J-160 | 8.0 | 130.0 | 5.1 | 0.03 | 0.001 |
| P-231 | 192 | J-153 | J-161 | 8.0 | 130.0 | 38.5 | 0.25 | 0.044 |
| P-232 | 1,123 | J-161 | J-162 | 8.0 | 130.0 | 13.1 | 0.08 | 0.006 |
| P-233 | 742 | J-162 | J-163 | 8.0 | 130.0 | 8.0 | 0.05 | 0.002 |
| P-234 | 629 | J-163 | J-161 | 8.0 | 130.0 | 20.3 | 0.13 | 0.013 |
| P-235 | 384 | J-163 | J-164 | 8.0 | 130.0 | 23.1 | 0.15 | 0.017 |
| P-236 | 649 | J-164 | J-165 | 8.0 | 130.0 | 9.9 | 0.06 | 0.003 |
| P-237 | 146 | J-165 | J-166 | 8.0 | 130.0 | 9.5 | 0.06 | 0.003 |
| P-238 | 193 | J-166 | J-26 | 8.0 | 130.0 | 25.6 | 0.16 | 0.020 |
| P-239 | 651 | J-164 | J-167 | 8.0 | 130.0 | 8.7 | 0.06 | 0.003 |
| P-240 | 630 | J-167 | J-165 | 8.0 | 130.0 | 4.2 | 0.03 | 0.001 |
| P-241 | 179 | J-157 | J-168 | 8.0 | 130.0 | 7.9 | 0.05 | 0.003 |
| P-242 | 278 | J-168 | J-169 | 8.0 | 130.0 | 17.0 | 0.11 | 0.010 |
| P-243 | 318 | J-169 | J-170 | 8.0 | 130.0 | 26.1 | 0.17 | 0.021 |
| P-244 | 165 | J-170 | J-166 | 8.0 | 130.0 | 35.1 | 0.22 | 0.037 |
| P-245 | 194 | J-168 | J-171 | 8.0 | 130.0 | 4.5 | 0.03 | 0.001 |
| P-246 | 203 | J-169 | J-172 | 8.0 | 130.0 | 4.5 | 0.03 | 0.001 |
| P-247 | 259 | J-170 | J-173 | 8.0 | 130.0 | 4.5 | 0.03 | 0.001 |

| Label | Elevation (ft) | Flow (Out net) (gpm) | Hydraulic Grade (ft) |
|-------|-------------------|-------------------------|-------------------------|
| R-1 | 1,390.0 | 1,222.1 | 1,390.0 |

PEAK HOUR DEMAND

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-1 | 1,279.0 | 0.0 | 1,387.9 | 47.1 |
| J-2 | 1,262.1 | 0.0 | 1,376.3 | 49.4 |
| J-3 | 1,256.8 | 0.0 | 1,375.4 | 51.3 |
| J-4 | 1,249.0 | 0.0 | 1,374.8 | 54.4 |
| J-5 | 1,247.4 | 0.0 | 1,374.8 | 55.1 |
| J-6 | 1,255.7 | 0.0 | 1,375.7 | 51.9 |
| J-7 | 1,252.1 | 0.0 | 1,375.0 | 53.2 |
| J-8 | 1,250.7 | 0.0 | 1,375.0 | 53.8 |
| J-9 | 1,245.1 | 0.0 | 1,373.7 | 55.7 |
| J-10 | 1,239.6 | 0.0 | 1,373.5 | 57.9 |
| J-11 | 1,238.6 | 0.0 | 1,373.4 | 58.4 |
| J-12 | 1,237.1 | 0.0 | 1,373.4 | 59.0 |
| J-13 | 1,252.0 | 0.0 | 1,374.5 | 53.0 |
| J-14 | 1,246.7 | 0.0 | 1,373.8 | 55.0 |
| J-15 | 1,245.8 | 330.8 | 1,373.5 | 55.2 |
| J-16 | 1,243.4 | 191.9 | 1,373.4 | 56.3 |
| J-18 | 1,253.3 | 0.0 | 1,374.6 | 52.5 |
| J-19 | 1,250.2 | 0.0 | 1,374.1 | 53.6 |
| J-20 | 1,248.8 | 0.0 | 1,374.1 | 54.2 |
| J-21 | 1,246.9 | 0.0 | 1,374.0 | 55.0 |
| J-22 | 1,243.9 | 0.0 | 1,373.1 | 55.9 |
| J-23 | 1,253.4 | 0.0 | 1,374.8 | 52.5 |
| J-24 | 1,254.0 | 0.0 | 1,374.7 | 52.2 |
| J-25 | 1,247.9 | 0.0 | 1,374.2 | 54.6 |
| J-26 | 1,248.2 | 0.0 | 1,374.3 | 54.5 |
| J-27 | 1,245.1 | 0.0 | 1,373.7 | 55.6 |
| J-28 | 1,244.2 | 0.0 | 1,373.7 | 56.0 |
| J-29 | 1,240.1 | 0.0 | 1,373.5 | 57.7 |
| J-30 | 1,236.9 | 0.0 | 1,373.0 | 58.9 |
| J-31 | 1,252.8 | 0.0 | 1,374.6 | 52.7 |
| J-32 | 1,250.9 | 0.0 | 1,374.3 | 53.4 |
| J-34 | 1,247.8 | 0.0 | 1,374.0 | 54.6 |
| J-35 | 1,245.1 | 0.0 | 1,373.7 | 55.6 |
| J-36 | 1,247.6 | 9.5 | 1,373.0 | 54.3 |
| J-37 | 1,245.2 | 9.5 | 1,373.0 | 55.3 |
| J-38 | 1,243.8 | 18.8 | 1,373.0 | 55.9 |
| J-39 | 1,240.7 | 18.8 | 1,372.9 | 57.2 |
| J-40 | 1,240.5 | 10.6 | 1,372.9 | 57.3 |
| J-41 | 1,238.9 | 10.6 | 1,372.9 | 58.0 |
| J-42 | 1,238.3 | 12.9 | 1,372.9 | 58.2 |
| J-43 | 1,237.4 | 12.9 | 1,372.9 | 58.7 |
| J-44 | 1,236.6 | 31.1 | 1,372.9 | 59.0 |
| J-45 | 1,236.2 | 0.0 | 1,372.9 | 59.2 |
| J-46 | 1,234.6 | 10.9 | 1,372.9 | 59.8 |
| J-47 | 1,234.2 | 10.9 | 1,372.9 | 60.0 |
| J-48 | 1,234.5 | 10.9 | 1,372.9 | 59.9 |
| J-49 | 1,234.5 | 0.0 | 1,372.9 | 59.9 |
| J-50 | 1,236.2 | 20.5 | 1,372.9 | 59.2 |
| J-51 | 1,236.6 | 20.5 | 1,372.9 | 59.0 |
| J-52 | 1,236.9 | 31.1 | 1,372.9 | 58.9 |

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-53 | 1,234.3 | 10.9 | 1,372.9 | 60.0 |
| J-54 | 1,234.0 | 10.9 | 1,372.9 | 60.1 |
| J-55 | 1,237.6 | 20.5 | 1,372.9 | 58.5 |
| J-56 | 1,238.5 | 0.0 | 1,372.9 | 58.2 |
| J-57 | 1,238.0 | 0.0 | 1,372.9 | 58.4 |
| J-58 | 1,238.6 | 12.9 | 1,372.9 | 58.1 |
| J-59 | 1,239.3 | 15.4 | 1,373.4 | 58.0 |
| J-60 | 1,238.7 | 15.4 | 1,373.4 | 58.3 |
| J-61 | 1,238.2 | 15.4 | 1,373.4 | 58.5 |
| J-62 | 1,238.1 | 15.4 | 1,373.4 | 58.5 |
| J-63 | 1,238.4 | 15.4 | 1,373.4 | 58.4 |
| J-64 | 1,240.8 | 15.9 | 1,373.4 | 57.4 |
| J-65 | 1,240.5 | 15.9 | 1,373.4 | 57.5 |
| J-66 | 1,240.6 | 15.9 | 1,373.4 | 57.4 |
| J-67 | 1,240.5 | 15.9 | 1,373.4 | 57.5 |
| J-68 | 1,240.0 | 0.0 | 1,373.4 | 57.7 |
| J-69 | 1,239.5 | 15.4 | 1,373.4 | 57.9 |
| J-70 | 1,241.5 | 15.9 | 1,373.4 | 57.1 |
| J-71 | 1,239.5 | 15.9 | 1,373.4 | 57.9 |
| J-72 | 1,239.0 | 0.0 | 1,373.4 | 58.1 |
| J-73 | 1,239.4 | 0.0 | 1,373.4 | 58.0 |
| J-74 | 1,240.7 | 0.0 | 1,372.9 | 57.2 |
| J-75 | 1,240.2 | 0.0 | 1,372.9 | 57.4 |
| J-76 | 1,240.1 | 10.6 | 1,372.9 | 57.5 |
| J-77 | 1,238.4 | 10.6 | 1,372.9 | 58.2 |
| J-78 | 1,239.8 | 10.6 | 1,372.9 | 57.6 |
| J-79 | 1,240.5 | 18.8 | 1,372.9 | 57.3 |
| J-80 | 1,242.5 | 0.0 | 1,373.0 | 56.4 |
| J-81 | 1,245.6 | 9.5 | 1,373.0 | 55.1 |
| J-82 | 1,245.5 | 9.5 | 1,373.0 | 55.1 |
| J-83 | 1,246.3 | 9.5 | 1,373.0 | 54.8 |
| J-84 | 1,245.3 | 9.5 | 1,373.0 | 55.2 |
| J-85 | 1,244.6 | 9.5 | 1,373.0 | 55.6 |
| J-86 | 1,248.1 | 9.5 | 1,373.0 | 54.0 |
| J-87 | 1,239.7 | 10.6 | 1,372.9 | 57.6 |
| J-88 | 1,243.9 | 18.8 | 1,373.0 | 55.8 |
| J-89 | 1,247.8 | 12.6 | 1,374.1 | 54.6 |
| J-90 | 1,250.2 | 0.0 | 1,374.2 | 53.6 |
| J-91 | 1,252.1 | 0.0 | 1,374.2 | 52.8 |
| J-92 | 1,253.0 | 20.0 | 1,374.2 | 52.5 |
| J-93 | 1,251.6 | 12.6 | 1,374.1 | 53.0 |
| J-94 | 1,250.6 | 12.6 | 1,374.1 | 53.4 |
| J-95 | 1,249.7 | 12.6 | 1,374.1 | 53.8 |
| J-96 | 1,246.5 | 12.6 | 1,374.1 | 55.2 |
| J-97 | 1,249.0 | 12.6 | 1,374.1 | 54.1 |
| J-98 | 1,246.2 | 5.9 | 1,374.0 | 55.3 |
| J-99 | 1,245.4 | 5.9 | 1,373.9 | 55.6 |
| J-100 | 1,243.5 | 5.9 | 1,373.9 | 56.4 |
| J-101 | 1,243.3 | 5.9 | 1,373.9 | 56.5 |
| J-102 | 1,244.5 | 5.9 | 1,373.9 | 56.0 |

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-103 | 1,245.3 | 5.9 | 1,373.9 | 55.6 |
| J-104 | 1,246.3 | 0.0 | 1,374.0 | 55.2 |
| J-105 | 1,243.8 | 5.9 | 1,373.9 | 56.3 |
| J-106 | 1,243.2 | 5.9 | 1,373.9 | 56.6 |
| J-107 | 1,252.6 | 20.0 | 1,374.3 | 52.7 |
| J-108 | 1,250.8 | 20.0 | 1,374.2 | 53.4 |
| J-109 | 1,248.9 | 20.0 | 1,374.2 | 54.2 |
| J-110 | 1,244.2 | 5.9 | 1,373.9 | 56.1 |
| J-111 | 1,244.5 | 19.9 | 1,373.9 | 56.0 |
| J-112 | 1,247.1 | 19.9 | 1,373.9 | 54.9 |
| J-113 | 1,248.5 | 19.9 | 1,373.9 | 54.3 |
| J-114 | 1,241.3 | 72.7 | 1,373.5 | 57.2 |
| J-115 | 1,242.7 | 8.2 | 1,373.5 | 56.6 |
| J-116 | 1,243.9 | 8.2 | 1,373.6 | 56.1 |
| J-117 | 1,244.9 | 8.2 | 1,373.6 | 55.7 |
| J-118 | 1,242.4 | 8.2 | 1,373.5 | 56.7 |
| J-119 | 1,241.9 | 8.2 | 1,373.5 | 57.0 |
| J-120 | 1,242.7 | 8.2 | 1,373.6 | 56.6 |
| J-121 | 1,240.8 | 8.2 | 1,373.5 | 57.4 |
| J-122 | 1,241.3 | 8.2 | 1,373.5 | 57.2 |
| J-123 | 1,246.2 | 11.3 | 1,373.7 | 55.2 |
| J-124 | 1,247.0 | 11.3 | 1,373.7 | 54.8 |
| J-125 | 1,246.0 | 11.3 | 1,373.7 | 55.3 |
| J-126 | 1,245.3 | 11.3 | 1,373.7 | 55.5 |
| J-127 | 1,247.3 | 11.3 | 1,373.7 | 54.7 |
| J-128 | 1,248.9 | 10.4 | 1,374.0 | 54.1 |
| J-129 | 1,249.5 | 10.4 | 1,374.0 | 53.9 |
| J-130 | 1,248.0 | 10.4 | 1,374.0 | 54.5 |
| J-131 | 1,248.0 | 10.4 | 1,374.0 | 54.5 |
| J-132 | 1,250.1 | 10.4 | 1,374.0 | 53.6 |
| J-133 | 1,249.9 | 10.4 | 1,374.0 | 53.7 |
| J-134 | 1,249.7 | 10.4 | 1,374.0 | 53.8 |
| J-135 | 1,248.6 | 10.4 | 1,374.0 | 54.2 |
| J-136 | 1,254.3 | 13.2 | 1,374.1 | 51.8 |
| J-137 | 1,254.1 | 13.2 | 1,374.1 | 51.9 |
| J-138 | 1,251.2 | 13.2 | 1,374.1 | 53.2 |
| J-139 | 1,250.9 | 13.2 | 1,374.1 | 53.3 |
| J-140 | 1,251.9 | 13.2 | 1,374.2 | 52.9 |
| J-141 | 1,253.0 | 13.2 | 1,374.1 | 52.4 |
| J-142 | 1,255.5 | 6.9 | 1,374.7 | 51.6 |
| J-143 | 1,254.1 | 6.9 | 1,374.6 | 52.1 |
| J-144 | 1,254.6 | 0.0 | 1,374.6 | 51.9 |
| J-145 | 1,256.4 | 6.9 | 1,374.6 | 51.2 |
| J-146 | 1,257.5 | 6.9 | 1,374.6 | 50.7 |
| J-147 | 1,258.8 | 6.9 | 1,374.6 | 50.1 |
| J-148 | 1,255.5 | 6.9 | 1,374.6 | 51.5 |
| J-149 | 1,257.0 | 6.9 | 1,374.6 | 50.9 |
| J-150 | 1,255.2 | 6.9 | 1,374.6 | 51.7 |
| J-151 | 1,253.4 | 6.9 | 1,374.6 | 52.5 |
| J-152 | 1,258.0 | 6.9 | 1,374.6 | 50.4 |

| Label | Elevation (ft) | Demand (gpm) | Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|--------------|----------------------|----------------|
| J-153 | 1,252.8 | 8.3 | 1,374.3 | 52.6 |
| J-154 | 1,252.2 | 8.3 | 1,374.3 | 52.8 |
| J-155 | 1,251.3 | 8.3 | 1,374.3 | 53.2 |
| J-156 | 1,249.9 | 8.3 | 1,374.2 | 53.8 |
| J-157 | 1,248.4 | 0.0 | 1,374.2 | 54.5 |
| J-158 | 1,252.0 | 8.3 | 1,374.3 | 52.9 |
| J-159 | 1,250.9 | 8.3 | 1,374.3 | 53.4 |
| J-160 | 1,249.8 | 8.3 | 1,374.2 | 53.9 |
| J-161 | 1,253.4 | 8.3 | 1,374.3 | 52.3 |
| J-162 | 1,253.4 | 8.3 | 1,374.3 | 52.3 |
| J-163 | 1,251.0 | 8.3 | 1,374.3 | 53.4 |
| J-164 | 1,250.7 | 7.2 | 1,374.3 | 53.5 |
| J-165 | 1,250.1 | 7.2 | 1,374.3 | 53.7 |
| J-166 | 1,248.4 | 0.0 | 1,374.3 | 54.4 |
| J-167 | 1,250.4 | 7.2 | 1,374.3 | 53.6 |
| J-168 | 1,248.4 | 7.2 | 1,374.2 | 54.4 |
| J-169 | 1,248.3 | 7.2 | 1,374.2 | 54.5 |
| J-170 | 1,248.2 | 7.2 | 1,374.3 | 54.5 |
| J-171 | 1,248.3 | 7.2 | 1,374.2 | 54.5 |
| J-172 | 1,248.2 | 7.2 | 1,374.2 | 54.5 |
| J-173 | 1,248.1 | 7.2 | 1,374.3 | 54.6 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-1 | 6,697 | R-1 | J-1 | 24.0 | 130.0 | 1,985.5 | 1.41 | 0.309 |
| P-2 | 5,240 | J-1 | J-2 | 16.0 | 130.0 | 1,985.5 | 3.17 | 2.223 |
| P-3 | 1,269 | J-2 | J-3 | 16.0 | 130.0 | 1,090.2 | 1.74 | 0.732 |
| P-5 | 1,499 | J-4 | J-5 | 16.0 | 130.0 | 0.0 | 0.00 | 0.000 |
| P-6 | 1,173 | J-2 | J-6 | 16.0 | 130.0 | 895.4 | 1.43 | 0.509 |
| P-7 | 2,438 | J-6 | J-7 | 16.0 | 130.0 | 632.5 | 1.01 | 0.267 |
| P-8 | 1,287 | J-7 | J-8 | 16.0 | 130.0 | 0.0 | 0.00 | 0.000 |
| P-9 | 1,119 | J-4 | J-9 | 8.0 | 130.0 | 198.8 | 1.27 | 0.917 |
| P-10 | 1,736 | J-9 | J-10 | 8.0 | 130.0 | 73.2 | 0.47 | 0.144 |
| P-11 | 1,002 | J-10 | J-11 | 8.0 | 130.0 | 51.2 | 0.33 | 0.074 |
| P-12 | 1,325 | J-11 | J-12 | 8.0 | 130.0 | 0.0 | 0.00 | 0.000 |
| P-15 | 448 | J-14 | J-15 | 12.0 | 130.0 | 522.7 | 1.48 | 0.762 |
| P-16 | 709 | J-15 | J-16 | 12.0 | 130.0 | 191.9 | 0.54 | 0.119 |
| P-18 | 678 | J-6 | J-18 | 8.0 | 130.0 | 262.9 | 1.68 | 1.538 |
| P-19 | 569 | J-18 | J-13 | 8.0 | 130.0 | 109.2 | 0.70 | 0.302 |
| P-20 | 614 | J-13 | J-19 | 8.0 | 130.0 | 154.0 | 0.98 | 0.571 |
| P-21 | 488 | J-19 | J-20 | 8.0 | 130.0 | 47.8 | 0.31 | 0.065 |
| P-22 | 999 | J-20 | J-21 | 8.0 | 130.0 | 63.2 | 0.40 | 0.110 |
| P-23 | 712 | J-21 | J-9 | 8.0 | 130.0 | 114.5 | 0.73 | 0.330 |
| P-24 | 508 | J-9 | J-22 | 8.0 | 130.0 | 240.1 | 1.53 | 1.301 |
| P-25 | 1,073 | J-3 | J-23 | 16.0 | 130.0 | 885.7 | 1.41 | 0.498 |
| P-26 | 1,565 | J-23 | J-4 | 16.0 | 130.0 | 198.8 | 0.32 | 0.031 |
| P-27 | 658 | J-3 | J-24 | 8.0 | 130.0 | 204.4 | 1.30 | 0.966 |
| P-28 | 569 | J-24 | J-13 | 8.0 | 130.0 | 132.5 | 0.85 | 0.432 |
| P-29 | 1,284 | J-13 | J-25 | 8.0 | 130.0 | 87.7 | 0.56 | 0.201 |
| P-30 | 909 | J-25 | J-14 | 8.0 | 130.0 | 135.4 | 0.86 | 0.450 |
| P-31 | 696 | J-7 | J-26 | 12.0 | 130.0 | 632.5 | 1.79 | 1.085 |
| P-32 | 495 | J-26 | J-14 | 12.0 | 130.0 | 593.0 | 1.68 | 0.963 |
| P-33 | 660 | J-14 | J-27 | 12.0 | 130.0 | 205.7 | 0.58 | 0.136 |
| P-34 | 449 | J-27 | J-28 | 12.0 | 130.0 | 173.6 | 0.49 | 0.099 |
| P-35 | 1,266 | J-28 | J-29 | 12.0 | 130.0 | 226.7 | 0.64 | 0.162 |
| P-36 | 661 | J-29 | J-11 | 12.0 | 130.0 | 140.5 | 0.40 | 0.067 |
| P-37 | 520 | J-11 | J-30 | 8.0 | 130.0 | 191.6 | 1.22 | 0.857 |
| P-39 | 545 | J-31 | J-32 | 12.0 | 130.0 | 477.7 | 1.36 | 0.645 |
| P-40 | 651 | J-32 | J-20 | 12.0 | 130.0 | 299.7 | 0.85 | 0.272 |
| P-42 | 159 | J-23 | J-31 | 12.0 | 130.0 | 687.0 | 1.95 | 1.264 |
| P-43 | 522 | J-20 | J-34 | 12.0 | 130.0 | 284.3 | 0.81 | 0.247 |
| P-44 | 927 | J-34 | J-35 | 12.0 | 130.0 | 295.8 | 0.84 | 0.266 |
| P-45 | 549 | J-35 | J-28 | 12.0 | 130.0 | 154.9 | 0.44 | 0.080 |
| P-46 | 724 | J-36 | J-37 | 8.0 | 130.0 | 26.6 | 0.17 | 0.022 |
| P-47 | 194 | J-37 | J-22 | 8.0 | 130.0 | 95.2 | 0.61 | 0.234 |
| P-48 | 191 | J-22 | J-38 | 8.0 | 130.0 | 144.9 | 0.92 | 0.510 |
| P-49 | 681 | J-38 | J-39 | 8.0 | 130.0 | 46.1 | 0.29 | 0.061 |
| P-51 | 617 | J-40 | J-41 | 8.0 | 130.0 | 17.2 | 0.11 | 0.010 |
| P-53 | 845 | J-42 | J-43 | 8.0 | 130.0 | 16.6 | 0.11 | 0.009 |
| P-54 | 202 | J-43 | J-30 | 8.0 | 130.0 | 91.6 | 0.58 | 0.218 |
| P-55 | 196 | J-30 | J-44 | 8.0 | 130.0 | 100.0 | 0.64 | 0.257 |
| P-56 | 322 | J-44 | J-45 | 8.0 | 130.0 | 37.9 | 0.24 | 0.042 |
| P-57 | 917 | J-45 | J-46 | 8.0 | 130.0 | 19.4 | 0.12 | 0.012 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-58 | 286 | J-46 | J-47 | 8.0 | 130.0 | 26.9 | 0.17 | 0.023 |
| P-59 | 353 | J-47 | J-48 | 8.0 | 130.0 | 5.1 | 0.03 | 0.001 |
| P-60 | 395 | J-48 | J-49 | 8.0 | 130.0 | 8.5 | 0.05 | 0.003 |
| P-61 | 1,032 | J-49 | J-50 | 8.0 | 130.0 | 16.7 | 0.11 | 0.009 |
| P-62 | 784 | J-50 | J-51 | 8.0 | 130.0 | 18.9 | 0.12 | 0.012 |
| P-63 | 320 | J-51 | J-43 | 8.0 | 130.0 | 44.2 | 0.28 | 0.056 |
| P-64 | 1,006 | J-45 | J-46 | 8.0 | 130.0 | 18.5 | 0.12 | 0.011 |
| P-65 | 1,099 | J-44 | J-52 | 8.0 | 130.0 | 15.9 | 0.10 | 0.009 |
| P-66 | 1,206 | J-44 | J-52 | 8.0 | 130.0 | 15.2 | 0.10 | 0.008 |
| P-67 | 480 | J-49 | J-53 | 8.0 | 130.0 | 8.2 | 0.05 | 0.003 |
| P-68 | 463 | J-53 | J-48 | 8.0 | 130.0 | 2.7 | 0.02 | 0.000 |
| P-69 | 261 | J-47 | J-54 | 8.0 | 130.0 | 10.9 | 0.07 | 0.005 |
| P-70 | 754 | J-50 | J-55 | 8.0 | 130.0 | 18.3 | 0.12 | 0.011 |
| P-71 | 884 | J-55 | J-51 | 8.0 | 130.0 | 4.9 | 0.03 | 0.001 |
| P-72 | 126 | J-41 | J-56 | 8.0 | 130.0 | 12.2 | 0.08 | 0.006 |
| P-73 | 122 | J-56 | J-42 | 8.0 | 130.0 | 8.7 | 0.06 | 0.003 |
| P-74 | 184 | J-55 | J-57 | 8.0 | 130.0 | 33.8 | 0.22 | 0.035 |
| P-75 | 321 | J-57 | J-56 | 8.0 | 130.0 | 20.8 | 0.13 | 0.014 |
| P-76 | 708 | J-42 | J-58 | 8.0 | 130.0 | 4.9 | 0.03 | 0.001 |
| P-77 | 680 | J-58 | J-43 | 8.0 | 130.0 | 17.8 | 0.11 | 0.010 |
| P-78 | 481 | J-29 | J-59 | 8.0 | 130.0 | 86.3 | 0.55 | 0.195 |
| P-79 | 182 | J-59 | J-60 | 8.0 | 130.0 | 37.7 | 0.24 | 0.042 |
| P-80 | 1,020 | J-60 | J-61 | 8.0 | 130.0 | 10.3 | 0.07 | 0.004 |
| P-81 | 1,309 | J-61 | J-62 | 8.0 | 130.0 | 5.2 | 0.03 | 0.001 |
| P-82 | 287 | J-62 | J-63 | 8.0 | 130.0 | 7.2 | 0.05 | 0.002 |
| P-83 | 375 | J-63 | J-60 | 8.0 | 130.0 | 12.1 | 0.08 | 0.005 |
| P-84 | 1,038 | J-28 | J-64 | 8.0 | 130.0 | 101.8 | 0.65 | 0.265 |
| P-85 | 268 | J-64 | J-65 | 8.0 | 130.0 | 56.9 | 0.36 | 0.090 |
| P-86 | 175 | J-65 | J-66 | 8.0 | 130.0 | 34.7 | 0.22 | 0.036 |
| P-87 | 128 | J-66 | J-67 | 8.0 | 130.0 | 13.4 | 0.09 | 0.007 |
| P-88 | 151 | J-67 | J-68 | 8.0 | 130.0 | 6.2 | 0.04 | 0.002 |
| P-89 | 224 | J-68 | J-69 | 8.0 | 130.0 | 10.8 | 0.07 | 0.004 |
| P-90 | 189 | J-69 | J-59 | 8.0 | 130.0 | 33.1 | 0.21 | 0.033 |
| P-91 | 870 | J-66 | J-70 | 8.0 | 130.0 | 5.4 | 0.03 | 0.001 |
| P-92 | 762 | J-70 | J-69 | 8.0 | 130.0 | 6.9 | 0.04 | 0.002 |
| P-93 | 415 | J-70 | J-67 | 8.0 | 130.0 | 3.6 | 0.02 | 0.000 |
| P-94 | 979 | J-64 | J-71 | 8.0 | 130.0 | 28.9 | 0.18 | 0.026 |
| P-95 | 707 | J-71 | J-65 | 8.0 | 130.0 | 6.3 | 0.04 | 0.002 |
| P-96 | 471 | J-71 | J-72 | 8.0 | 130.0 | 19.3 | 0.12 | 0.012 |
| P-97 | 308 | J-72 | J-73 | 8.0 | 130.0 | 5.9 | 0.04 | 0.001 |
| P-98 | 378 | J-73 | J-68 | 8.0 | 130.0 | 4.6 | 0.03 | 0.001 |
| P-99 | 522 | J-73 | J-63 | 8.0 | 130.0 | 10.5 | 0.07 | 0.004 |
| P-100 | 496 | J-72 | J-62 | 8.0 | 130.0 | 13.4 | 0.09 | 0.006 |
| P-101 | 124 | J-39 | J-74 | 8.0 | 130.0 | 49.2 | 0.31 | 0.069 |
| P-102 | 128 | J-74 | J-40 | 8.0 | 130.0 | 43.9 | 0.28 | 0.055 |
| P-103 | 320 | J-74 | J-75 | 8.0 | 130.0 | 5.4 | 0.03 | 0.001 |
| P-104 | 185 | J-75 | J-76 | 8.0 | 130.0 | 44.7 | 0.29 | 0.057 |
| P-105 | 586 | J-76 | J-77 | 8.0 | 130.0 | 18.0 | 0.11 | 0.011 |
| P-106 | 182 | J-77 | J-57 | 8.0 | 130.0 | 13.0 | 0.08 | 0.005 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-107 | 632 | J-76 | J-78 | 8.0 | 130.0 | 16.1 | 0.10 | 0.009 |
| P-108 | 631 | J-78 | J-77 | 8.0 | 130.0 | 5.5 | 0.04 | 0.001 |
| P-109 | 935 | J-38 | J-79 | 8.0 | 130.0 | 39.2 | 0.25 | 0.045 |
| P-110 | 179 | J-79 | J-75 | 8.0 | 130.0 | 39.3 | 0.25 | 0.046 |
| P-111 | 1,087 | J-79 | J-80 | 8.0 | 130.0 | 18.8 | 0.12 | 0.012 |
| P-112 | 170 | J-80 | J-81 | 8.0 | 130.0 | 18.8 | 0.12 | 0.011 |
| P-113 | 302 | J-81 | J-82 | 8.0 | 130.0 | 37.9 | 0.24 | 0.043 |
| P-114 | 410 | J-82 | J-83 | 8.0 | 130.0 | 57.0 | 0.36 | 0.091 |
| P-115 | 758 | J-83 | J-37 | 8.0 | 130.0 | 36.2 | 0.23 | 0.039 |
| P-116 | 203 | J-82 | J-84 | 8.0 | 130.0 | 9.5 | 0.06 | 0.004 |
| P-117 | 205 | J-81 | J-85 | 8.0 | 130.0 | 9.5 | 0.06 | 0.004 |
| P-118 | 479 | J-36 | J-83 | 8.0 | 130.0 | 30.4 | 0.19 | 0.028 |
| P-119 | 742 | J-36 | J-86 | 8.0 | 130.0 | 13.4 | 0.09 | 0.006 |
| P-120 | 681 | J-86 | J-37 | 8.0 | 130.0 | 22.9 | 0.15 | 0.017 |
| P-121 | 621 | J-40 | J-87 | 8.0 | 130.0 | 16.1 | 0.10 | 0.009 |
| P-122 | 577 | J-87 | J-41 | 8.0 | 130.0 | 5.5 | 0.04 | 0.001 |
| P-123 | 653 | J-38 | J-88 | 8.0 | 130.0 | 40.7 | 0.26 | 0.049 |
| P-124 | 646 | J-88 | J-39 | 8.0 | 130.0 | 21.9 | 0.14 | 0.015 |
| P-125 | 191 | J-21 | J-89 | 8.0 | 130.0 | 121.0 | 0.77 | 0.365 |
| P-126 | 822 | J-89 | J-90 | 8.0 | 130.0 | 68.4 | 0.44 | 0.127 |
| P-127 | 276 | J-90 | J-91 | 8.0 | 130.0 | 20.2 | 0.13 | 0.013 |
| P-128 | 273 | J-91 | J-92 | 8.0 | 130.0 | 94.5 | 0.60 | 0.231 |
| P-130 | 271 | J-93 | J-94 | 8.0 | 130.0 | 41.3 | 0.26 | 0.050 |
| P-131 | 511 | J-94 | J-95 | 8.0 | 130.0 | 20.4 | 0.13 | 0.014 |
| P-132 | 342 | J-95 | J-96 | 8.0 | 130.0 | 61.7 | 0.39 | 0.105 |
| P-133 | 214 | J-96 | J-89 | 8.0 | 130.0 | 65.2 | 0.42 | 0.116 |
| P-134 | 273 | J-94 | J-91 | 8.0 | 130.0 | 74.3 | 0.47 | 0.148 |
| P-135 | 536 | J-95 | J-90 | 8.0 | 130.0 | 53.9 | 0.34 | 0.082 |
| P-136 | 920 | J-93 | J-97 | 8.0 | 130.0 | 28.7 | 0.18 | 0.025 |
| P-137 | 679 | J-97 | J-96 | 8.0 | 130.0 | 16.1 | 0.10 | 0.009 |
| P-138 | 205 | J-21 | J-98 | 8.0 | 130.0 | 69.7 | 0.44 | 0.132 |
| P-139 | 215 | J-98 | J-99 | 8.0 | 130.0 | 31.0 | 0.20 | 0.029 |
| P-140 | 680 | J-99 | J-100 | 8.0 | 130.0 | 10.9 | 0.07 | 0.004 |
| P-141 | 647 | J-100 | J-101 | 8.0 | 130.0 | 5.0 | 0.03 | 0.001 |
| P-143 | 291 | J-102 | J-103 | 8.0 | 130.0 | 11.4 | 0.07 | 0.005 |
| P-144 | 334 | J-103 | J-104 | 8.0 | 130.0 | 19.8 | 0.13 | 0.013 |
| P-145 | 131 | J-104 | J-98 | 8.0 | 130.0 | 32.7 | 0.21 | 0.032 |
| P-146 | 331 | J-99 | J-105 | 8.0 | 130.0 | 14.2 | 0.09 | 0.007 |
| P-147 | 291 | J-105 | J-106 | 8.0 | 130.0 | 10.7 | 0.07 | 0.004 |
| P-148 | 127 | J-106 | J-101 | 8.0 | 130.0 | 3.5 | 0.02 | 0.001 |
| P-149 | 416 | J-105 | J-103 | 8.0 | 130.0 | 2.4 | 0.02 | 0.000 |
| P-150 | 490 | J-106 | J-102 | 8.0 | 130.0 | 1.3 | 0.01 | 0.000 |
| P-151 | 274 | J-92 | J-107 | 8.0 | 130.0 | 114.5 | 0.73 | 0.330 |
| P-152 | 304 | J-107 | J-31 | 8.0 | 130.0 | 209.3 | 1.34 | 1.009 |
| P-153 | 283 | J-90 | J-108 | 8.0 | 130.0 | 102.2 | 0.65 | 0.267 |
| P-154 | 299 | J-108 | J-32 | 8.0 | 130.0 | 67.2 | 0.43 | 0.123 |
| P-155 | 543 | J-107 | J-108 | 8.0 | 130.0 | 74.9 | 0.48 | 0.150 |
| P-156 | 532 | J-108 | J-109 | 8.0 | 130.0 | 20.0 | 0.13 | 0.013 |
| P-157 | 876 | J-101 | J-110 | 8.0 | 130.0 | 2.6 | 0.02 | 0.000 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-158 | 158 | J-110 | J-102 | 8.0 | 130.0 | 6.8 | 0.04 | 0.002 |
| P-159 | 1,042 | J-104 | J-111 | 8.0 | 130.0 | 12.9 | 0.08 | 0.006 |
| P-160 | 721 | J-111 | J-112 | 8.0 | 130.0 | 3.5 | 0.02 | 0.001 |
| P-161 | 322 | J-112 | J-34 | 8.0 | 130.0 | 43.4 | 0.28 | 0.055 |
| P-162 | 291 | J-110 | J-111 | 8.0 | 130.0 | 3.5 | 0.02 | 0.000 |
| P-163 | 406 | J-112 | J-113 | 8.0 | 130.0 | 19.9 | 0.13 | 0.013 |
| P-164 | 587 | J-10 | J-114 | 8.0 | 130.0 | 22.0 | 0.14 | 0.016 |
| P-165 | 524 | J-114 | J-115 | 8.0 | 130.0 | 50.8 | 0.32 | 0.073 |
| P-166 | 581 | J-115 | J-116 | 8.0 | 130.0 | 43.1 | 0.27 | 0.054 |
| P-167 | 567 | J-116 | J-117 | 8.0 | 130.0 | 56.1 | 0.36 | 0.088 |
| P-168 | 319 | J-117 | J-35 | 8.0 | 130.0 | 116.5 | 0.74 | 0.341 |
| P-169 | 184 | J-115 | J-118 | 8.0 | 130.0 | 15.9 | 0.10 | 0.009 |
| P-170 | 288 | J-118 | J-119 | 8.0 | 130.0 | 32.4 | 0.21 | 0.032 |
| P-171 | 294 | J-119 | J-120 | 8.0 | 130.0 | 48.8 | 0.31 | 0.068 |
| P-172 | 658 | J-120 | J-117 | 8.0 | 130.0 | 52.2 | 0.33 | 0.077 |
| P-173 | 692 | J-116 | J-120 | 8.0 | 130.0 | 4.9 | 0.03 | 0.001 |
| P-174 | 331 | J-119 | J-121 | 8.0 | 130.0 | 8.2 | 0.05 | 0.003 |
| P-175 | 405 | J-118 | J-122 | 8.0 | 130.0 | 8.2 | 0.05 | 0.002 |
| P-176 | 312 | J-35 | J-123 | 8.0 | 130.0 | 24.4 | 0.16 | 0.019 |
| P-177 | 558 | J-123 | J-124 | 8.0 | 130.0 | 12.7 | 0.08 | 0.006 |
| P-178 | 492 | J-124 | J-125 | 8.0 | 130.0 | 3.5 | 0.02 | 0.000 |
| P-179 | 199 | J-125 | J-126 | 8.0 | 130.0 | 21.2 | 0.14 | 0.015 |
| P-180 | 199 | J-126 | J-27 | 8.0 | 130.0 | 32.2 | 0.21 | 0.031 |
| P-181 | 492 | J-123 | J-126 | 8.0 | 130.0 | 0.3 | 0.00 | 0.000 |
| P-182 | 708 | J-124 | J-127 | 8.0 | 130.0 | 4.9 | 0.03 | 0.001 |
| P-183 | 583 | J-127 | J-125 | 8.0 | 130.0 | 6.4 | 0.04 | 0.001 |
| P-184 | 312 | J-34 | J-128 | 8.0 | 130.0 | 55.0 | 0.35 | 0.085 |
| P-185 | 521 | J-128 | J-129 | 8.0 | 130.0 | 52.5 | 0.34 | 0.078 |
| P-186 | 201 | J-129 | J-19 | 8.0 | 130.0 | 137.8 | 0.88 | 0.465 |
| P-187 | 283 | J-128 | J-130 | 8.0 | 130.0 | 1.5 | 0.01 | 0.000 |
| P-188 | 827 | J-130 | J-131 | 8.0 | 130.0 | 3.6 | 0.02 | 0.001 |
| P-189 | 683 | J-131 | J-132 | 8.0 | 130.0 | 14.3 | 0.09 | 0.007 |
| P-190 | 737 | J-132 | J-133 | 8.0 | 130.0 | 24.6 | 0.16 | 0.019 |
| P-191 | 142 | J-133 | J-129 | 8.0 | 130.0 | 74.9 | 0.48 | 0.150 |
| P-192 | 354 | J-133 | J-134 | 8.0 | 130.0 | 39.9 | 0.25 | 0.047 |
| P-193 | 291 | J-134 | J-135 | 8.0 | 130.0 | 15.3 | 0.10 | 0.008 |
| P-194 | 177 | J-135 | J-131 | 8.0 | 130.0 | 0.3 | 0.00 | 0.000 |
| P-195 | 388 | J-134 | J-128 | 8.0 | 130.0 | 14.3 | 0.09 | 0.007 |
| P-196 | 411 | J-130 | J-135 | 8.0 | 130.0 | 5.2 | 0.03 | 0.001 |
| P-198 | 298 | J-136 | J-137 | 8.0 | 130.0 | 32.7 | 0.21 | 0.032 |
| P-199 | 934 | J-137 | J-138 | 8.0 | 130.0 | 8.8 | 0.06 | 0.003 |
| P-200 | 150 | J-138 | J-139 | 8.0 | 130.0 | 6.9 | 0.04 | 0.002 |
| P-201 | 193 | J-139 | J-19 | 8.0 | 130.0 | 31.6 | 0.20 | 0.030 |
| P-202 | 541 | J-136 | J-140 | 8.0 | 130.0 | 46.0 | 0.29 | 0.061 |
| P-203 | 595 | J-140 | J-139 | 8.0 | 130.0 | 51.7 | 0.33 | 0.076 |
| P-204 | 303 | J-32 | J-140 | 8.0 | 130.0 | 110.8 | 0.71 | 0.311 |
| P-205 | 706 | J-137 | J-141 | 8.0 | 130.0 | 10.7 | 0.07 | 0.004 |
| P-206 | 737 | J-141 | J-138 | 8.0 | 130.0 | 2.5 | 0.02 | 0.000 |
| P-207 | 455 | J-24 | J-142 | 8.0 | 130.0 | 72.0 | 0.46 | 0.140 |

| Label | Length (ft) | Start Node | Stop Node | Diameter (in) | Hazen-Williams C | Flow (Absolute) (gpm) | Velocity (ft/s) | Headloss Gradient (ft/1000ft) |
|-------|-------------|------------|-----------|---------------|------------------|-----------------------|-----------------|-------------------------------|
| P-208 | 323 | J-142 | J-143 | 8.0 | 130.0 | 30.4 | 0.19 | 0.028 |
| P-209 | 165 | J-143 | J-144 | 8.0 | 130.0 | 16.5 | 0.11 | 0.010 |
| P-210 | 203 | J-144 | J-18 | 8.0 | 130.0 | 2.5 | 0.02 | 0.000 |
| P-211 | 201 | J-142 | J-145 | 8.0 | 130.0 | 34.6 | 0.22 | 0.036 |
| P-212 | 294 | J-145 | J-146 | 8.0 | 130.0 | 20.7 | 0.13 | 0.014 |
| P-213 | 535 | J-147 | J-146 | 8.0 | 130.0 | 6.8 | 0.04 | 0.002 |
| P-214 | 779 | J-147 | J-148 | 8.0 | 130.0 | 2.8 | 0.02 | 0.000 |
| P-215 | 206 | J-148 | J-144 | 8.0 | 130.0 | 14.0 | 0.09 | 0.007 |
| P-216 | 307 | J-146 | J-149 | 8.0 | 130.0 | 6.9 | 0.04 | 0.002 |
| P-217 | 352 | J-145 | J-150 | 8.0 | 130.0 | 6.9 | 0.04 | 0.002 |
| P-218 | 285 | J-143 | J-151 | 8.0 | 130.0 | 6.9 | 0.04 | 0.002 |
| P-219 | 691 | J-147 | J-152 | 8.0 | 130.0 | 2.7 | 0.02 | 0.000 |
| P-220 | 678 | J-152 | J-148 | 8.0 | 130.0 | 4.2 | 0.03 | 0.001 |
| P-221 | 522 | J-18 | J-153 | 8.0 | 130.0 | 156.1 | 1.00 | 0.586 |
| P-222 | 186 | J-153 | J-154 | 8.0 | 130.0 | 84.7 | 0.54 | 0.189 |
| P-223 | 296 | J-154 | J-155 | 8.0 | 130.0 | 68.1 | 0.43 | 0.126 |
| P-224 | 324 | J-155 | J-156 | 8.0 | 130.0 | 51.6 | 0.33 | 0.075 |
| P-225 | 207 | J-156 | J-157 | 8.0 | 130.0 | 35.1 | 0.22 | 0.037 |
| P-226 | 308 | J-157 | J-25 | 8.0 | 130.0 | 47.8 | 0.30 | 0.065 |
| P-227 | 531 | J-154 | J-158 | 8.0 | 130.0 | 4.0 | 0.03 | 0.001 |
| P-228 | 483 | J-158 | J-154 | 8.0 | 130.0 | 4.2 | 0.03 | 0.001 |
| P-229 | 203 | J-155 | J-159 | 8.0 | 130.0 | 8.3 | 0.05 | 0.003 |
| P-230 | 204 | J-156 | J-160 | 8.0 | 130.0 | 8.3 | 0.05 | 0.003 |
| P-231 | 192 | J-153 | J-161 | 8.0 | 130.0 | 63.2 | 0.40 | 0.110 |
| P-232 | 1,123 | J-161 | J-162 | 8.0 | 130.0 | 21.5 | 0.14 | 0.015 |
| P-233 | 742 | J-162 | J-163 | 8.0 | 130.0 | 13.2 | 0.08 | 0.006 |
| P-234 | 629 | J-163 | J-161 | 8.0 | 130.0 | 33.4 | 0.21 | 0.034 |
| P-235 | 384 | J-163 | J-164 | 8.0 | 130.0 | 38.4 | 0.25 | 0.044 |
| P-236 | 649 | J-164 | J-165 | 8.0 | 130.0 | 16.6 | 0.11 | 0.009 |
| P-237 | 146 | J-165 | J-166 | 8.0 | 130.0 | 16.7 | 0.11 | 0.009 |
| P-238 | 193 | J-166 | J-26 | 8.0 | 130.0 | 39.5 | 0.25 | 0.046 |
| P-239 | 651 | J-164 | J-167 | 8.0 | 130.0 | 14.6 | 0.09 | 0.007 |
| P-240 | 630 | J-167 | J-165 | 8.0 | 130.0 | 7.3 | 0.05 | 0.002 |
| P-241 | 179 | J-157 | J-168 | 8.0 | 130.0 | 12.7 | 0.08 | 0.005 |
| P-242 | 278 | J-168 | J-169 | 8.0 | 130.0 | 27.2 | 0.17 | 0.023 |
| P-243 | 318 | J-169 | J-170 | 8.0 | 130.0 | 41.7 | 0.27 | 0.051 |
| P-244 | 165 | J-170 | J-166 | 8.0 | 130.0 | 56.2 | 0.36 | 0.088 |
| P-245 | 194 | J-168 | J-171 | 8.0 | 130.0 | 7.2 | 0.05 | 0.002 |
| P-246 | 203 | J-169 | J-172 | 8.0 | 130.0 | 7.2 | 0.05 | 0.002 |
| P-247 | 259 | J-170 | J-173 | 8.0 | 130.0 | 7.2 | 0.05 | 0.002 |

| Label | Elevation (ft) | Flow (Out net) (gpm) | Hydraulic Grade (ft) |
|-------|-------------------|-------------------------|-------------------------|
| R-1 | 1,390.0 | 1,985.5 | 1,390.0 |

MAXIMUM DAY DEMAND PLUS FIRE FLOW

RESIDUAL PRESSURE ANALYSIS

AVAILABLE FIRE FLOW ANALYSIS

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-1 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 46.9 | 52.2 | J-2 | J-2 | P-2 | 1.95 | True |
| J-2 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 31.3 | 32.5 | J-147 | J-147 | P-2 | 6.74 | True |
| J-3 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 31.3 | 30.8 | J-147 | J-147 | P-2 | 6.74 | True |
| J-4 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 30.9 | 30.5 | J-147 | J-147 | P-2 | 6.74 | True |
| J-5 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 28.5 | 30.5 | J-147 | J-147 | P-2 | 6.74 | True |
| J-6 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 32.1 | 31.0 | J-147 | J-147 | P-2 | 6.74 | True |
| J-7 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 31.3 | 30.5 | J-147 | J-147 | P-2 | 6.74 | True |
| J-8 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 29.3 | 30.5 | J-147 | J-147 | P-2 | 6.74 | True |
| J-9 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.9 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-10 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 22.6 | 25.7 | J-114 | J-114 | P-11 | 7.52 | True |
| J-11 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 30.0 | 28.9 | J-86 | J-86 | P-2 | 6.74 | True |
| J-12 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 45.8 | 46.9 | J-1 | J-1 | P-12 | 6.38 | True |
| J-13 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 50.8 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-14 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 32.0 | 29.9 | J-147 | J-147 | P-2 | 6.74 | True |
| J-15 | 196.4 | 3,000.0 | 3,196.4 | 3,000.0 | 3,196.4 | 27.9 | 28.9 | J-16 | J-16 | P-15 | 9.39 | True |
| J-16 | 114.7 | 3,000.0 | 3,114.7 | 3,000.0 | 3,114.7 | 22.5 | 27.9 | J-15 | J-15 | P-15 | 9.39 | True |
| J-18 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 50.4 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-19 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 51.5 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-20 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.3 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-21 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.6 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-22 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 51.6 | 46.9 | J-1 | J-1 | P-24 | 4.62 | True |
| J-23 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 31.4 | 30.6 | J-147 | J-147 | P-2 | 6.74 | True |
| J-24 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 49.9 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-25 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.0 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-26 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 32.1 | 30.0 | J-147 | J-147 | P-2 | 6.74 | True |
| J-27 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 32.0 | 30.0 | J-147 | J-147 | P-2 | 6.74 | True |
| J-28 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 32.0 | 30.0 | J-147 | J-147 | P-2 | 6.74 | True |
| J-29 | 0.0 | 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 30.7 | 30.0 | J-86 | J-86 | P-2 | 6.74 | True |
| J-30 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 54.6 | 46.9 | J-1 | J-1 | P-37 | 4.54 | True |
| J-31 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 50.9 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-32 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 51.5 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-34 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.7 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-35 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 53.6 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-36 | 5.9 | 1,000.0 | 1,005.9 | 1,000.0 | 1,005.9 | 48.2 | 46.9 | J-1 | J-1 | P-47 | 5.04 | True |
| J-37 | 5.9 | 1,000.0 | 1,005.9 | 1,000.0 | 1,005.9 | 50.1 | 46.9 | J-1 | J-1 | P-47 | 5.21 | True |
| J-38 | 11.7 | 1,000.0 | 1,011.7 | 1,000.0 | 1,011.7 | 51.4 | 46.9 | J-1 | J-1 | P-24 | 4.43 | True |
| J-39 | 11.7 | 1,000.0 | 1,011.7 | 1,000.0 | 1,011.7 | 52.4 | 46.9 | J-1 | J-1 | P-24 | 4.29 | True |

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-40 | 6.6 | 1,000.0 | 1,006.6 | 1,000.0 | 1,006.6 | 52.4 | 46.9 | J-1 | J-1 | P-24 | 4.16 | True |
| J-41 | 6.6 | 1,000.0 | 1,006.6 | 1,000.0 | 1,006.6 | 53.1 | 46.9 | J-1 | J-1 | P-24 | 4.07 | True |
| J-42 | 8.0 | 1,000.0 | 1,008.0 | 1,000.0 | 1,008.0 | 53.4 | 46.9 | J-1 | J-1 | P-37 | 4.18 | True |
| J-43 | 8.0 | 1,000.0 | 1,008.0 | 1,000.0 | 1,008.0 | 54.1 | 46.9 | J-1 | J-1 | P-37 | 4.32 | True |
| J-44 | 19.3 | 1,000.0 | 1,019.3 | 1,000.0 | 1,019.3 | 53.6 | 46.9 | J-1 | J-1 | P-55 | 5.40 | True |
| J-45 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.7 | 46.9 | J-1 | J-1 | P-55 | 4.75 | True |
| J-46 | 6.8 | 1,000.0 | 1,006.8 | 1,000.0 | 1,006.8 | 52.8 | 46.9 | J-1 | J-1 | P-37 | 4.44 | True |
| J-47 | 6.8 | 1,000.0 | 1,006.8 | 1,000.0 | 1,006.8 | 52.6 | 46.9 | J-1 | J-1 | P-37 | 4.43 | True |
| J-48 | 6.8 | 1,000.0 | 1,006.8 | 1,000.0 | 1,006.8 | 52.4 | 46.9 | J-1 | J-1 | P-37 | 4.41 | True |
| J-49 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.4 | 46.9 | J-1 | J-1 | P-37 | 4.39 | True |
| J-50 | 12.8 | 1,000.0 | 1,012.8 | 1,000.0 | 1,012.8 | 53.5 | 46.9 | J-1 | J-1 | P-37 | 4.28 | True |
| J-51 | 12.8 | 1,000.0 | 1,012.8 | 1,000.0 | 1,012.8 | 53.9 | 46.9 | J-1 | J-1 | P-37 | 4.25 | True |
| J-52 | 19.3 | 1,000.0 | 1,019.3 | 1,000.0 | 1,019.3 | 50.9 | 46.9 | J-1 | J-1 | P-55 | 5.40 | True |
| J-53 | 6.8 | 1,000.0 | 1,006.8 | 1,000.0 | 1,006.8 | 51.6 | 46.9 | J-1 | J-1 | P-37 | 4.40 | True |
| J-54 | 6.8 | 1,000.0 | 1,006.8 | 1,000.0 | 1,006.8 | 50.6 | 46.9 | J-1 | J-1 | P-69 | 6.43 | True |
| J-55 | 12.8 | 1,000.0 | 1,012.8 | 1,000.0 | 1,012.8 | 53.5 | 46.9 | J-1 | J-1 | P-37 | 4.20 | True |
| J-56 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 53.4 | 46.9 | J-1 | J-1 | P-37 | 4.11 | True |
| J-57 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 53.6 | 46.9 | J-1 | J-1 | P-37 | 4.11 | True |
| J-58 | 8.0 | 1,000.0 | 1,008.0 | 1,000.0 | 1,008.0 | 52.1 | 46.9 | J-1 | J-1 | P-37 | 4.25 | True |
| J-59 | 9.6 | 1,000.0 | 1,009.6 | 1,000.0 | 1,009.6 | 53.9 | 46.9 | J-1 | J-1 | P-78 | 4.34 | True |
| J-60 | 9.6 | 1,000.0 | 1,009.6 | 1,000.0 | 1,009.6 | 53.6 | 46.9 | J-1 | J-1 | P-78 | 4.27 | True |
| J-61 | 9.6 | 1,000.0 | 1,009.6 | 1,000.0 | 1,009.6 | 51.4 | 46.9 | J-1 | J-1 | P-78 | 4.24 | True |
| J-62 | 9.6 | 1,000.0 | 1,009.6 | 1,000.0 | 1,009.6 | 53.4 | 46.9 | J-1 | J-1 | P-78 | 4.20 | True |
| J-63 | 9.6 | 1,000.0 | 1,009.6 | 1,000.0 | 1,009.6 | 53.5 | 46.9 | J-1 | J-1 | P-78 | 4.22 | True |
| J-64 | 9.8 | 1,000.0 | 1,009.8 | 1,000.0 | 1,009.8 | 53.0 | 46.9 | J-1 | J-1 | P-78 | 3.76 | True |
| J-65 | 9.8 | 1,000.0 | 1,009.8 | 1,000.0 | 1,009.8 | 53.0 | 46.9 | J-1 | J-1 | P-78 | 3.96 | True |
| J-66 | 9.8 | 1,000.0 | 1,009.8 | 1,000.0 | 1,009.8 | 52.8 | 46.9 | J-1 | J-1 | P-78 | 4.08 | True |
| J-67 | 9.8 | 1,000.0 | 1,009.8 | 1,000.0 | 1,009.8 | 52.9 | 46.9 | J-1 | J-1 | P-78 | 4.12 | True |
| J-68 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 53.2 | 46.9 | J-1 | J-1 | P-78 | 4.17 | True |
| J-69 | 9.6 | 1,000.0 | 1,009.6 | 1,000.0 | 1,009.6 | 53.5 | 46.9 | J-1 | J-1 | P-78 | 4.23 | True |
| J-70 | 9.8 | 1,000.0 | 1,009.8 | 1,000.0 | 1,009.8 | 52.0 | 46.9 | J-1 | J-1 | P-78 | 4.14 | True |
| J-71 | 9.8 | 1,000.0 | 1,009.8 | 1,000.0 | 1,009.8 | 53.0 | 46.9 | J-1 | J-1 | P-78 | 4.00 | True |
| J-72 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 53.3 | 46.9 | J-1 | J-1 | P-78 | 4.13 | True |
| J-73 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 53.2 | 46.9 | J-1 | J-1 | P-78 | 4.17 | True |
| J-74 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.5 | 46.9 | J-1 | J-1 | P-24 | 4.23 | True |
| J-75 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.7 | 46.9 | J-1 | J-1 | P-24 | 4.23 | True |
| J-76 | 6.6 | 1,000.0 | 1,006.6 | 1,000.0 | 1,006.6 | 52.4 | 46.9 | J-1 | J-1 | P-24 | 4.15 | True |

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-77 | 6.6 | 1,000.0 | 1,006.6 | 1,000.0 | 1,006.6 | 53.1 | 46.9 | J-1 | J-1 | P-24 | 4.08 | True |
| J-78 | 6.6 | 1,000.0 | 1,006.6 | 1,000.0 | 1,006.6 | 51.3 | 46.9 | J-1 | J-1 | P-24 | 4.12 | True |
| J-79 | 11.7 | 1,000.0 | 1,011.7 | 1,000.0 | 1,011.7 | 52.4 | 46.9 | J-1 | J-1 | P-24 | 4.32 | True |
| J-80 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 49.5 | 46.9 | J-1 | J-1 | P-24 | 4.49 | True |
| J-81 | 5.9 | 1,000.0 | 1,005.9 | 1,000.0 | 1,005.9 | 48.1 | 46.9 | J-1 | J-1 | P-24 | 4.50 | True |
| J-82 | 5.9 | 1,000.0 | 1,005.9 | 1,000.0 | 1,005.9 | 48.4 | 46.9 | J-1 | J-1 | P-24 | 4.52 | True |
| J-83 | 5.9 | 1,000.0 | 1,005.9 | 1,000.0 | 1,005.9 | 48.9 | 46.9 | J-1 | J-1 | P-47 | 4.70 | True |
| J-84 | 5.9 | 1,000.0 | 1,005.9 | 1,000.0 | 1,005.9 | 46.9 | 46.9 | J-1 | J-1 | P-116 | 6.42 | True |
| J-85 | 5.9 | 1,000.0 | 1,005.9 | 1,000.0 | 1,005.9 | 47.0 | 46.9 | J-1 | J-1 | P-117 | 6.42 | True |
| J-86 | 5.9 | 1,000.0 | 1,005.9 | 1,000.0 | 1,005.9 | 47.1 | 46.9 | J-1 | J-1 | P-47 | 5.15 | True |
| J-87 | 6.6 | 1,000.0 | 1,006.6 | 1,000.0 | 1,006.6 | 51.6 | 46.9 | J-1 | J-1 | P-24 | 4.12 | True |
| J-88 | 11.7 | 1,000.0 | 1,011.7 | 1,000.0 | 1,011.7 | 49.9 | 46.9 | J-1 | J-1 | P-24 | 4.37 | True |
| J-89 | 7.9 | 1,000.0 | 1,007.9 | 1,000.0 | 1,007.9 | 52.1 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-90 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 51.1 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-91 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 50.1 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-92 | 12.0 | 1,000.0 | 1,012.0 | 1,000.0 | 1,012.0 | 49.6 | 46.9 | J-1 | J-1 | P-151 | 3.57 | True |
| J-93 | 7.9 | 1,000.0 | 1,007.9 | 1,000.0 | 1,007.9 | 49.0 | 46.9 | J-1 | J-1 | P-130 | 4.48 | True |
| J-94 | 7.9 | 1,000.0 | 1,007.9 | 1,000.0 | 1,007.9 | 50.4 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-95 | 7.9 | 1,000.0 | 1,007.9 | 1,000.0 | 1,007.9 | 50.9 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-96 | 7.9 | 1,000.0 | 1,007.9 | 1,000.0 | 1,007.9 | 52.3 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-97 | 7.9 | 1,000.0 | 1,007.9 | 1,000.0 | 1,007.9 | 49.5 | 46.9 | J-1 | J-1 | P-137 | 3.69 | True |
| J-98 | 3.7 | 1,000.0 | 1,003.7 | 1,000.0 | 1,003.7 | 52.2 | 46.9 | J-1 | J-1 | P-138 | 4.59 | True |
| J-99 | 3.7 | 1,000.0 | 1,003.7 | 1,000.0 | 1,003.7 | 52.1 | 46.9 | J-1 | J-1 | P-138 | 4.48 | True |
| J-100 | 3.7 | 1,000.0 | 1,003.7 | 1,000.0 | 1,003.7 | 51.5 | 46.9 | J-1 | J-1 | P-138 | 4.43 | True |
| J-101 | 3.7 | 1,000.0 | 1,003.7 | 1,000.0 | 1,003.7 | 52.6 | 46.9 | J-1 | J-1 | P-138 | 4.39 | True |
| J-102 | 3.7 | 1,000.0 | 1,003.7 | 1,000.0 | 1,003.7 | 52.3 | 46.9 | J-1 | J-1 | P-138 | 4.36 | True |
| J-103 | 3.7 | 1,000.0 | 1,003.7 | 1,000.0 | 1,003.7 | 52.0 | 46.9 | J-1 | J-1 | P-138 | 4.39 | True |
| J-104 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 51.9 | 46.9 | J-1 | J-1 | P-138 | 4.46 | True |
| J-105 | 3.7 | 1,000.0 | 1,003.7 | 1,000.0 | 1,003.7 | 52.6 | 46.9 | J-1 | J-1 | P-138 | 4.41 | True |
| J-106 | 3.7 | 1,000.0 | 1,003.7 | 1,000.0 | 1,003.7 | 52.8 | 46.9 | J-1 | J-1 | P-138 | 4.39 | True |
| J-107 | 12.0 | 1,000.0 | 1,012.0 | 1,000.0 | 1,012.0 | 50.3 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-108 | 12.0 | 1,000.0 | 1,012.0 | 1,000.0 | 1,012.0 | 51.1 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-109 | 12.0 | 1,000.0 | 1,012.0 | 1,000.0 | 1,012.0 | 47.6 | 46.9 | J-1 | J-1 | P-156 | 6.46 | True |
| J-110 | 3.7 | 1,000.0 | 1,003.7 | 1,000.0 | 1,003.7 | 52.5 | 46.9 | J-1 | J-1 | P-138 | 4.31 | True |
| J-111 | 12.2 | 1,000.0 | 1,012.2 | 1,000.0 | 1,012.2 | 52.6 | 46.9 | J-1 | J-1 | P-138 | 4.00 | True |
| J-112 | 12.2 | 1,000.0 | 1,012.2 | 1,000.0 | 1,012.2 | 51.8 | 46.9 | J-1 | J-1 | P-161 | 4.42 | True |
| J-113 | 12.2 | 1,000.0 | 1,012.2 | 1,000.0 | 1,012.2 | 47.9 | 46.9 | J-1 | J-1 | P-163 | 6.46 | True |

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-114 | 48.4 | 1,000.0 | 1,048.4 | 1,000.0 | 1,048.4 | 52.7 | 46.9 | J-1 | J-1 | P-164 | 3.56 | True |
| J-115 | 5.2 | 1,000.0 | 1,005.2 | 1,000.0 | 1,005.2 | 52.4 | 46.9 | J-1 | J-1 | P-168 | 4.18 | True |
| J-116 | 5.2 | 1,000.0 | 1,005.2 | 1,000.0 | 1,005.2 | 52.0 | 46.9 | J-1 | J-1 | P-168 | 4.54 | True |
| J-117 | 5.2 | 1,000.0 | 1,005.2 | 1,000.0 | 1,005.2 | 52.2 | 46.9 | J-1 | J-1 | P-168 | 4.87 | True |
| J-118 | 5.2 | 1,000.0 | 1,005.2 | 1,000.0 | 1,005.2 | 52.1 | 46.9 | J-1 | J-1 | P-168 | 4.31 | True |
| J-119 | 5.2 | 1,000.0 | 1,005.2 | 1,000.0 | 1,005.2 | 52.3 | 46.9 | J-1 | J-1 | P-168 | 4.44 | True |
| J-120 | 5.2 | 1,000.0 | 1,005.2 | 1,000.0 | 1,005.2 | 52.4 | 46.9 | J-1 | J-1 | P-168 | 4.55 | True |
| J-121 | 5.2 | 1,000.0 | 1,005.2 | 1,000.0 | 1,005.2 | 50.1 | 46.9 | J-1 | J-1 | P-174 | 6.42 | True |
| J-122 | 5.2 | 1,000.0 | 1,005.2 | 1,000.0 | 1,005.2 | 49.4 | 46.9 | J-1 | J-1 | P-175 | 6.42 | True |
| J-123 | 7.2 | 1,000.0 | 1,007.2 | 1,000.0 | 1,007.2 | 52.5 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-124 | 7.2 | 1,000.0 | 1,007.2 | 1,000.0 | 1,007.2 | 51.3 | 46.9 | J-1 | J-1 | P-180 | 3.69 | True |
| J-125 | 7.2 | 1,000.0 | 1,007.2 | 1,000.0 | 1,007.2 | 52.0 | 46.9 | J-1 | J-1 | P-179 | 4.33 | True |
| J-126 | 7.2 | 1,000.0 | 1,007.2 | 1,000.0 | 1,007.2 | 52.9 | 46.9 | J-1 | J-1 | P-180 | 4.07 | True |
| J-127 | 7.2 | 1,000.0 | 1,007.2 | 1,000.0 | 1,007.2 | 50.1 | 46.9 | J-1 | J-1 | P-179 | 4.06 | True |
| J-128 | 6.4 | 1,000.0 | 1,006.4 | 1,000.0 | 1,006.4 | 51.5 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-129 | 6.4 | 1,000.0 | 1,006.4 | 1,000.0 | 1,006.4 | 51.3 | 46.9 | J-1 | J-1 | P-186 | 3.92 | True |
| J-130 | 6.4 | 1,000.0 | 1,006.4 | 1,000.0 | 1,006.4 | 51.3 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-131 | 6.4 | 1,000.0 | 1,006.4 | 1,000.0 | 1,006.4 | 51.1 | 46.9 | J-1 | J-1 | P-186 | 3.55 | True |
| J-132 | 6.4 | 1,000.0 | 1,006.4 | 1,000.0 | 1,006.4 | 49.2 | 46.9 | J-1 | J-1 | P-186 | 3.63 | True |
| J-133 | 6.4 | 1,000.0 | 1,006.4 | 1,000.0 | 1,006.4 | 50.8 | 46.9 | J-1 | J-1 | P-191 | 3.86 | True |
| J-134 | 6.4 | 1,000.0 | 1,006.4 | 1,000.0 | 1,006.4 | 50.8 | 46.9 | J-1 | J-1 | P-186 | 3.57 | True |
| J-135 | 6.4 | 1,000.0 | 1,006.4 | 1,000.0 | 1,006.4 | 51.0 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-136 | 8.1 | 1,000.0 | 1,008.1 | 1,000.0 | 1,008.1 | 48.0 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-137 | 8.1 | 1,000.0 | 1,008.1 | 1,000.0 | 1,008.1 | 48.2 | 46.9 | J-1 | J-1 | P-200 | 3.81 | True |
| J-138 | 8.1 | 1,000.0 | 1,008.1 | 1,000.0 | 1,008.1 | 50.0 | 46.9 | J-1 | J-1 | P-200 | 4.75 | True |
| J-139 | 8.1 | 1,000.0 | 1,008.1 | 1,000.0 | 1,008.1 | 50.7 | 46.9 | J-1 | J-1 | P-201 | 3.95 | True |
| J-140 | 8.1 | 1,000.0 | 1,008.1 | 1,000.0 | 1,008.1 | 50.3 | 46.9 | J-1 | J-1 | P-204 | 3.70 | True |
| J-141 | 8.1 | 1,000.0 | 1,008.1 | 1,000.0 | 1,008.1 | 47.6 | 46.9 | J-1 | J-1 | P-200 | 4.36 | True |
| J-142 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 48.6 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-143 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 49.1 | 46.9 | J-1 | J-1 | P-210 | 3.98 | True |
| J-144 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 49.2 | 46.9 | J-1 | J-1 | P-210 | 4.23 | True |
| J-145 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 47.5 | 46.9 | J-1 | J-1 | P-211 | 4.55 | True |
| J-146 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 46.5 | 46.8 | J-149 | J-149 | P-210 | 3.85 | True |
| J-147 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 46.0 | 46.8 | J-152 | J-152 | P-210 | 3.98 | True |
| J-148 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 48.0 | 46.8 | J-147 | J-147 | P-215 | 4.70 | True |
| J-149 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 44.3 | 46.5 | J-146 | J-146 | P-216 | 6.41 | True |
| J-150 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 45.2 | 46.9 | J-1 | J-1 | P-217 | 6.41 | True |

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-151 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 47.1 | 46.9 | J-1 | J-1 | P-218 | 6.41 | True |
| J-152 | 4.3 | 1,000.0 | 1,004.3 | 1,000.0 | 1,004.3 | 45.4 | 46.5 | J-147 | J-147 | P-215 | 4.39 | True |
| J-153 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 49.8 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-154 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 49.7 | 46.9 | J-1 | J-1 | P-222 | 4.12 | True |
| J-155 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 49.8 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-156 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 50.6 | 46.9 | J-1 | J-1 | P-225 | 3.98 | True |
| J-157 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 51.7 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-158 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 48.6 | 46.9 | J-1 | J-1 | P-222 | 4.12 | True |
| J-159 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 48.4 | 46.9 | J-1 | J-1 | P-229 | 6.42 | True |
| J-160 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 49.1 | 46.9 | J-1 | J-1 | P-230 | 6.42 | True |
| J-161 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 49.1 | 46.9 | J-1 | J-1 | P-231 | 4.21 | True |
| J-162 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 47.2 | 46.9 | J-1 | J-1 | P-231 | 3.90 | True |
| J-163 | 5.1 | 1,000.0 | 1,005.1 | 1,000.0 | 1,005.1 | 49.8 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-164 | 4.5 | 1,000.0 | 1,004.5 | 1,000.0 | 1,004.5 | 50.1 | 46.9 | J-1 | J-1 | P-237 | 3.90 | True |
| J-165 | 4.5 | 1,000.0 | 1,004.5 | 1,000.0 | 1,004.5 | 50.8 | 46.9 | J-1 | J-1 | P-237 | 4.59 | True |
| J-166 | 0.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 52.0 | 46.9 | J-1 | J-1 | P-238 | 3.87 | True |
| J-167 | 4.5 | 1,000.0 | 1,004.5 | 1,000.0 | 1,004.5 | 49.3 | 46.9 | J-1 | J-1 | P-237 | 4.32 | True |
| J-168 | 4.5 | 1,000.0 | 1,004.5 | 1,000.0 | 1,004.5 | 51.4 | 46.9 | J-1 | J-1 | P-241 | 3.92 | True |
| J-169 | 4.5 | 1,000.0 | 1,004.5 | 1,000.0 | 1,004.5 | 51.3 | 46.9 | J-1 | J-1 | P-2 | 3.55 | True |
| J-170 | 4.5 | 1,000.0 | 1,004.5 | 1,000.0 | 1,004.5 | 51.6 | 46.9 | J-1 | J-1 | P-244 | 4.33 | True |
| J-171 | 4.5 | 1,000.0 | 1,004.5 | 1,000.0 | 1,004.5 | 49.9 | 46.9 | J-1 | J-1 | P-245 | 6.41 | True |
| J-172 | 4.5 | 1,000.0 | 1,004.5 | 1,000.0 | 1,004.5 | 49.7 | 46.9 | J-1 | J-1 | P-246 | 6.41 | True |
| J-173 | 4.5 | 1,000.0 | 1,004.5 | 1,000.0 | 1,004.5 | 49.6 | 46.9 | J-1 | J-1 | P-247 | 6.41 | True |

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-1 | 0.0 | 1,000.0 | 1,000.0 | 10,000.0 | 10,000.0 | 46.9 | 52.2 | J-2 | J-2 | P-1 | 7.96 | True |
| J-2 | 0.0 | 3,000.0 | 3,000.0 | 3,981.0 | 3,981.0 | 31.3 | 32.5 | J-147 | J-147 | P-2 | 8.30 | True |
| J-3 | 0.0 | 3,000.0 | 3,000.0 | 3,877.4 | 3,877.4 | 31.3 | 30.8 | J-147 | J-147 | P-2 | 8.14 | True |
| J-4 | 0.0 | 3,000.0 | 3,000.0 | 3,736.5 | 3,736.5 | 30.9 | 30.5 | J-147 | J-5 | P-2 | 7.91 | True |
| J-5 | 0.0 | 3,000.0 | 3,000.0 | 3,513.4 | 3,513.4 | 28.5 | 30.5 | J-147 | J-4 | P-2 | 7.56 | True |
| J-6 | 0.0 | 3,000.0 | 3,000.0 | 3,894.6 | 3,894.6 | 32.1 | 31.0 | J-147 | J-147 | P-2 | 8.16 | True |
| J-7 | 0.0 | 3,000.0 | 3,000.0 | 3,822.5 | 3,822.5 | 31.3 | 30.5 | J-147 | J-147 | P-2 | 8.05 | True |
| J-8 | 0.0 | 3,000.0 | 3,000.0 | 3,609.8 | 3,609.8 | 29.3 | 30.5 | J-147 | J-7 | P-2 | 7.71 | True |
| J-9 | 0.0 | 1,000.0 | 1,000.0 | 3,421.6 | 3,421.6 | 52.9 | 46.9 | J-1 | J-86 | P-23 | 7.59 | True |
| J-10 | 0.0 | 3,000.0 | 3,000.0 | 3,121.4 | 3,121.4 | 22.6 | 25.7 | J-114 | J-114 | P-11 | 7.83 | True |
| J-11 | 0.0 | 3,000.0 | 3,000.0 | 3,572.8 | 3,572.8 | 30.0 | 28.9 | J-86 | J-86 | P-2 | 7.65 | True |
| J-12 | 0.0 | 1,000.0 | 1,000.0 | 1,566.7 | 1,566.7 | 45.8 | 46.9 | J-1 | J-2 | P-12 | 10.00 | True |
| J-13 | 0.0 | 1,000.0 | 1,000.0 | 3,544.2 | 3,544.2 | 50.8 | 46.9 | J-1 | J-147 | P-2 | 7.61 | True |
| J-14 | 0.0 | 3,000.0 | 3,000.0 | 3,783.7 | 3,783.7 | 32.0 | 29.9 | J-147 | J-147 | P-2 | 7.99 | True |
| J-15 | 196.4 | 3,000.0 | 3,196.4 | 3,214.1 | 3,410.5 | 27.9 | 28.9 | J-16 | J-16 | P-15 | 10.00 | True |
| J-16 | 114.7 | 3,000.0 | 3,114.7 | 3,126.5 | 3,241.2 | 22.5 | 27.9 | J-15 | J-15 | P-15 | 9.75 | True |
| J-18 | 0.0 | 1,000.0 | 1,000.0 | 3,461.8 | 3,461.8 | 50.4 | 46.9 | J-1 | J-147 | P-2 | 7.47 | True |
| J-19 | 0.0 | 1,000.0 | 1,000.0 | 3,594.7 | 3,594.7 | 51.5 | 46.9 | J-1 | J-137 | P-2 | 7.69 | True |
| J-20 | 0.0 | 1,000.0 | 1,000.0 | 3,727.3 | 3,727.3 | 52.3 | 46.9 | J-1 | J-136 | P-2 | 7.90 | True |
| J-21 | 0.0 | 1,000.0 | 1,000.0 | 3,563.4 | 3,563.4 | 52.6 | 46.9 | J-1 | J-98 | P-125 | 7.67 | True |
| J-22 | 0.0 | 1,000.0 | 1,000.0 | 2,426.5 | 2,426.5 | 51.6 | 46.9 | J-1 | J-86 | P-24 | 10.00 | True |
| J-23 | 0.0 | 3,000.0 | 3,000.0 | 3,845.1 | 3,845.1 | 31.4 | 30.6 | J-147 | J-136 | P-2 | 8.09 | True |
| J-24 | 0.0 | 1,000.0 | 1,000.0 | 3,367.3 | 3,367.3 | 49.9 | 46.9 | J-1 | J-147 | P-27 | 8.48 | True |
| J-25 | 0.0 | 1,000.0 | 1,000.0 | 3,362.2 | 3,362.2 | 52.0 | 46.9 | J-1 | J-157 | P-226 | 8.44 | True |
| J-26 | 0.0 | 3,000.0 | 3,000.0 | 3,796.0 | 3,796.0 | 32.1 | 30.0 | J-147 | J-147 | P-2 | 8.01 | True |
| J-27 | 0.0 | 3,000.0 | 3,000.0 | 3,777.9 | 3,777.9 | 32.0 | 30.0 | J-147 | J-127 | P-2 | 7.98 | True |
| J-28 | 0.0 | 3,000.0 | 3,000.0 | 3,795.9 | 3,795.9 | 32.0 | 30.0 | J-147 | J-147 | P-2 | 8.01 | True |
| J-29 | 0.0 | 3,000.0 | 3,000.0 | 3,639.2 | 3,639.2 | 30.7 | 30.0 | J-86 | J-86 | P-2 | 7.76 | True |
| J-30 | 0.0 | 1,000.0 | 1,000.0 | 2,447.0 | 2,447.0 | 54.6 | 46.9 | J-1 | J-52 | P-37 | 10.00 | True |
| J-31 | 0.0 | 1,000.0 | 1,000.0 | 3,799.2 | 3,799.2 | 50.9 | 46.9 | J-1 | J-136 | P-2 | 8.01 | True |
| J-32 | 0.0 | 1,000.0 | 1,000.0 | 3,714.0 | 3,714.0 | 51.5 | 46.9 | J-1 | J-136 | P-2 | 7.88 | True |
| J-34 | 0.0 | 1,000.0 | 1,000.0 | 3,746.4 | 3,746.4 | 52.7 | 46.9 | J-1 | J-136 | P-2 | 7.93 | True |
| J-35 | 0.0 | 1,000.0 | 1,000.0 | 3,795.7 | 3,795.7 | 53.6 | 46.9 | J-1 | J-147 | P-2 | 8.01 | True |
| J-36 | 5.9 | 1,000.0 | 1,005.9 | 2,028.0 | 2,033.9 | 48.2 | 46.9 | J-1 | J-86 | P-47 | 10.00 | True |
| J-37 | 5.9 | 1,000.0 | 1,005.9 | 1,963.0 | 1,968.9 | 50.1 | 46.9 | J-1 | J-86 | P-47 | 10.00 | True |
| J-38 | 11.7 | 1,000.0 | 1,011.7 | 2,555.3 | 2,567.1 | 51.4 | 46.9 | J-1 | J-88 | P-24 | 10.00 | True |
| J-39 | 11.7 | 1,000.0 | 1,011.7 | 2,666.0 | 2,677.7 | 52.4 | 46.9 | J-1 | J-88 | P-24 | 10.00 | True |

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-40 | 6.6 | 1,000.0 | 1,006.6 | 2,656.9 | 2,663.5 | 52.4 | 46.9 | J-1 | J-87 | P-102 | 10.00 | True |
| J-41 | 6.6 | 1,000.0 | 1,006.6 | 2,685.5 | 2,692.1 | 53.1 | 46.9 | J-1 | J-87 | P-72 | 10.00 | True |
| J-42 | 8.0 | 1,000.0 | 1,008.0 | 2,733.0 | 2,741.1 | 53.4 | 46.9 | J-1 | J-58 | P-37 | 10.00 | True |
| J-43 | 8.0 | 1,000.0 | 1,008.0 | 2,605.2 | 2,613.3 | 54.1 | 46.9 | J-1 | J-58 | P-37 | 10.00 | True |
| J-44 | 19.3 | 1,000.0 | 1,019.3 | 1,908.7 | 1,928.0 | 53.6 | 46.9 | J-1 | J-52 | P-55 | 10.00 | True |
| J-45 | 0.0 | 1,000.0 | 1,000.0 | 2,192.4 | 2,192.4 | 52.7 | 46.9 | J-1 | J-46 | P-55 | 10.00 | True |
| J-46 | 6.8 | 1,000.0 | 1,006.8 | 2,408.4 | 2,415.3 | 52.8 | 46.9 | J-1 | J-47 | P-55 | 10.00 | True |
| J-47 | 6.8 | 1,000.0 | 1,006.8 | 2,358.0 | 2,364.8 | 52.6 | 46.9 | J-1 | J-54 | P-37 | 9.36 | True |
| J-48 | 6.8 | 1,000.0 | 1,006.8 | 2,328.7 | 2,335.5 | 52.4 | 46.9 | J-1 | J-53 | P-37 | 9.21 | True |
| J-49 | 0.0 | 1,000.0 | 1,000.0 | 2,332.3 | 2,332.3 | 52.4 | 46.9 | J-1 | J-53 | P-37 | 9.19 | True |
| J-50 | 12.8 | 1,000.0 | 1,012.8 | 2,636.4 | 2,649.2 | 53.5 | 46.9 | J-1 | J-49 | P-37 | 9.97 | True |
| J-51 | 12.8 | 1,000.0 | 1,012.8 | 2,665.0 | 2,677.8 | 53.9 | 46.9 | J-1 | J-55 | P-37 | 10.00 | True |
| J-52 | 19.3 | 1,000.0 | 1,019.3 | 1,908.7 | 1,928.0 | 50.9 | 46.9 | J-1 | J-44 | P-55 | 10.00 | True |
| J-53 | 6.8 | 1,000.0 | 1,006.8 | 2,209.1 | 2,215.9 | 51.6 | 46.9 | J-1 | J-49 | P-37 | 8.76 | True |
| J-54 | 6.8 | 1,000.0 | 1,006.8 | 1,559.9 | 1,566.7 | 50.6 | 46.9 | J-1 | J-47 | P-69 | 10.00 | True |
| J-55 | 12.8 | 1,000.0 | 1,012.8 | 2,715.3 | 2,728.1 | 53.5 | 46.9 | J-1 | J-57 | P-37 | 10.00 | True |
| J-56 | 0.0 | 1,000.0 | 1,000.0 | 2,792.9 | 2,792.9 | 53.4 | 46.9 | J-1 | J-41 | P-37 | 10.00 | True |
| J-57 | 0.0 | 1,000.0 | 1,000.0 | 2,792.1 | 2,792.1 | 53.6 | 46.9 | J-1 | J-77 | P-37 | 10.00 | True |
| J-58 | 8.0 | 1,000.0 | 1,008.0 | 2,520.1 | 2,528.1 | 52.1 | 46.9 | J-1 | J-42 | P-37 | 9.50 | True |
| J-59 | 9.6 | 1,000.0 | 1,009.6 | 2,421.2 | 2,430.8 | 53.9 | 46.9 | J-1 | J-70 | P-78 | 10.00 | True |
| J-60 | 9.6 | 1,000.0 | 1,009.6 | 2,471.1 | 2,480.7 | 53.6 | 46.9 | J-1 | J-61 | P-78 | 10.00 | True |
| J-61 | 9.6 | 1,000.0 | 1,009.6 | 2,327.5 | 2,337.0 | 51.4 | 46.9 | J-1 | J-62 | P-78 | 9.38 | True |
| J-62 | 9.6 | 1,000.0 | 1,009.6 | 2,514.8 | 2,524.4 | 53.4 | 46.9 | J-1 | J-61 | P-78 | 10.00 | True |
| J-63 | 9.6 | 1,000.0 | 1,009.6 | 2,504.4 | 2,514.0 | 53.5 | 46.9 | J-1 | J-62 | P-78 | 10.00 | True |
| J-64 | 9.8 | 1,000.0 | 1,009.8 | 2,864.7 | 2,874.5 | 53.0 | 46.9 | J-1 | J-65 | P-78 | 10.00 | True |
| J-65 | 9.8 | 1,000.0 | 1,009.8 | 2,691.2 | 2,701.0 | 53.0 | 46.9 | J-1 | J-66 | P-78 | 10.00 | True |
| J-66 | 9.8 | 1,000.0 | 1,009.8 | 2,601.1 | 2,610.9 | 52.8 | 46.9 | J-1 | J-70 | P-78 | 10.00 | True |
| J-67 | 9.8 | 1,000.0 | 1,009.8 | 2,571.6 | 2,581.4 | 52.9 | 46.9 | J-1 | J-70 | P-78 | 10.00 | True |
| J-68 | 0.0 | 1,000.0 | 1,000.0 | 2,538.5 | 2,538.5 | 53.2 | 46.9 | J-1 | J-70 | P-78 | 10.00 | True |
| J-69 | 9.6 | 1,000.0 | 1,009.6 | 2,498.8 | 2,508.4 | 53.5 | 46.9 | J-1 | J-70 | P-78 | 10.00 | True |
| J-70 | 9.8 | 1,000.0 | 1,009.8 | 2,557.8 | 2,567.5 | 52.0 | 46.9 | J-1 | J-67 | P-78 | 10.00 | True |
| J-71 | 9.8 | 1,000.0 | 1,009.8 | 2,663.1 | 2,672.9 | 53.0 | 46.9 | J-1 | J-65 | P-78 | 10.00 | True |
| J-72 | 0.0 | 1,000.0 | 1,000.0 | 2,561.2 | 2,561.2 | 53.3 | 46.9 | J-1 | J-73 | P-78 | 10.00 | True |
| J-73 | 0.0 | 1,000.0 | 1,000.0 | 2,537.2 | 2,537.2 | 53.2 | 46.9 | J-1 | J-72 | P-78 | 10.00 | True |
| J-74 | 0.0 | 1,000.0 | 1,000.0 | 2,718.1 | 2,718.1 | 52.5 | 46.9 | J-1 | J-88 | P-24 | 10.00 | True |
| J-75 | 0.0 | 1,000.0 | 1,000.0 | 2,715.0 | 2,715.0 | 52.7 | 46.9 | J-1 | J-81 | P-24 | 10.00 | True |
| J-76 | 6.6 | 1,000.0 | 1,006.6 | 2,709.7 | 2,716.3 | 52.4 | 46.9 | J-1 | J-78 | P-104 | 10.00 | True |

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-77 | 6.6 | 1,000.0 | 1,006.6 | 2,742.4 | 2,749.0 | 53.1 | 46.9 | J-1 | J-78 | P-106 | 9.99 | True |
| J-78 | 6.6 | 1,000.0 | 1,006.6 | 2,452.4 | 2,459.0 | 51.3 | 46.9 | J-1 | J-76 | P-24 | 8.81 | True |
| J-79 | 11.7 | 1,000.0 | 1,011.7 | 2,640.6 | 2,652.4 | 52.4 | 46.9 | J-1 | J-81 | P-24 | 10.00 | True |
| J-80 | 0.0 | 1,000.0 | 1,000.0 | 2,295.7 | 2,295.7 | 49.5 | 46.9 | J-1 | J-81 | P-24 | 9.16 | True |
| J-81 | 5.9 | 1,000.0 | 1,005.9 | 2,250.0 | 2,255.9 | 48.1 | 46.9 | J-1 | J-85 | P-24 | 9.03 | True |
| J-82 | 5.9 | 1,000.0 | 1,005.9 | 2,288.7 | 2,294.5 | 48.4 | 46.9 | J-1 | J-84 | P-24 | 9.21 | True |
| J-83 | 5.9 | 1,000.0 | 1,005.9 | 2,183.3 | 2,189.2 | 48.9 | 46.9 | J-1 | J-82 | P-47 | 10.00 | True |
| J-84 | 5.9 | 1,000.0 | 1,005.9 | 1,560.8 | 1,566.7 | 46.9 | 46.9 | J-1 | J-82 | P-116 | 10.00 | True |
| J-85 | 5.9 | 1,000.0 | 1,005.9 | 1,560.8 | 1,566.7 | 47.0 | 46.9 | J-1 | J-81 | P-117 | 10.00 | True |
| J-86 | 5.9 | 1,000.0 | 1,005.9 | 1,986.9 | 1,992.7 | 47.1 | 46.9 | J-1 | J-36 | P-47 | 10.00 | True |
| J-87 | 6.6 | 1,000.0 | 1,006.6 | 2,497.2 | 2,503.8 | 51.6 | 46.9 | J-1 | J-40 | P-24 | 8.96 | True |
| J-88 | 11.7 | 1,000.0 | 1,011.7 | 2,452.8 | 2,464.5 | 49.9 | 46.9 | J-1 | J-38 | P-24 | 9.47 | True |
| J-89 | 7.9 | 1,000.0 | 1,007.9 | 3,076.0 | 3,083.9 | 52.1 | 46.9 | J-1 | J-93 | P-125 | 10.00 | True |
| J-90 | 0.0 | 1,000.0 | 1,000.0 | 3,396.4 | 3,396.4 | 51.1 | 46.9 | J-1 | J-91 | P-153 | 8.78 | True |
| J-91 | 0.0 | 1,000.0 | 1,000.0 | 3,249.7 | 3,249.7 | 50.1 | 46.9 | J-1 | J-93 | P-127 | 7.92 | True |
| J-92 | 12.0 | 1,000.0 | 1,012.0 | 2,892.5 | 2,904.5 | 49.6 | 46.9 | J-1 | J-91 | P-151 | 10.00 | True |
| J-93 | 7.9 | 1,000.0 | 1,007.9 | 2,248.6 | 2,256.5 | 49.0 | 46.9 | J-1 | J-97 | P-130 | 10.00 | True |
| J-94 | 7.9 | 1,000.0 | 1,007.9 | 3,114.8 | 3,122.7 | 50.4 | 46.9 | J-1 | J-93 | P-134 | 9.95 | True |
| J-95 | 7.9 | 1,000.0 | 1,007.9 | 3,173.0 | 3,180.9 | 50.9 | 46.9 | J-1 | J-93 | P-125 | 8.42 | True |
| J-96 | 7.9 | 1,000.0 | 1,007.9 | 2,955.7 | 2,963.6 | 52.3 | 46.9 | J-1 | J-97 | P-133 | 10.00 | True |
| J-97 | 7.9 | 1,000.0 | 1,007.9 | 2,632.9 | 2,640.8 | 49.5 | 46.9 | J-1 | J-93 | P-137 | 9.67 | True |
| J-98 | 3.7 | 1,000.0 | 1,003.7 | 2,233.6 | 2,237.3 | 52.2 | 46.9 | J-1 | J-104 | P-138 | 10.00 | True |
| J-99 | 3.7 | 1,000.0 | 1,003.7 | 2,291.2 | 2,294.9 | 52.1 | 46.9 | J-1 | J-100 | P-138 | 10.00 | True |
| J-100 | 3.7 | 1,000.0 | 1,003.7 | 2,320.6 | 2,324.3 | 51.5 | 46.9 | J-1 | J-99 | P-138 | 10.00 | True |
| J-101 | 3.7 | 1,000.0 | 1,003.7 | 2,342.4 | 2,346.0 | 52.6 | 46.9 | J-1 | J-100 | P-138 | 10.00 | True |
| J-102 | 3.7 | 1,000.0 | 1,003.7 | 2,356.8 | 2,360.5 | 52.3 | 46.9 | J-1 | J-103 | P-138 | 10.00 | True |
| J-103 | 3.7 | 1,000.0 | 1,003.7 | 2,343.6 | 2,347.3 | 52.0 | 46.9 | J-1 | J-102 | P-138 | 10.00 | True |
| J-104 | 0.0 | 1,000.0 | 1,000.0 | 2,301.7 | 2,301.7 | 51.9 | 46.9 | J-1 | J-103 | P-138 | 10.00 | True |
| J-105 | 3.7 | 1,000.0 | 1,003.7 | 2,327.6 | 2,331.3 | 52.6 | 46.9 | J-1 | J-99 | P-138 | 10.00 | True |
| J-106 | 3.7 | 1,000.0 | 1,003.7 | 2,343.2 | 2,346.9 | 52.8 | 46.9 | J-1 | J-101 | P-138 | 10.00 | True |
| J-107 | 12.0 | 1,000.0 | 1,012.0 | 3,164.4 | 3,176.4 | 50.3 | 46.9 | J-1 | J-92 | P-152 | 10.00 | True |
| J-108 | 12.0 | 1,000.0 | 1,012.0 | 3,446.2 | 3,458.2 | 51.1 | 46.9 | J-1 | J-109 | P-154 | 10.00 | True |
| J-109 | 12.0 | 1,000.0 | 1,012.0 | 1,554.7 | 1,566.7 | 47.6 | 46.9 | J-1 | J-2 | P-156 | 10.00 | True |
| J-110 | 3.7 | 1,000.0 | 1,003.7 | 2,390.0 | 2,393.7 | 52.5 | 46.9 | J-1 | J-102 | P-138 | 10.00 | True |
| J-111 | 12.2 | 1,000.0 | 1,012.2 | 2,590.3 | 2,602.5 | 52.6 | 46.9 | J-1 | J-110 | P-138 | 10.00 | True |
| J-112 | 12.2 | 1,000.0 | 1,012.2 | 2,311.9 | 2,324.1 | 51.8 | 46.9 | J-1 | J-113 | P-161 | 10.00 | True |
| J-113 | 12.2 | 1,000.0 | 1,012.2 | 1,554.5 | 1,566.7 | 47.9 | 46.9 | J-1 | J-2 | P-163 | 10.00 | True |

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-114 | 48.4 | 1,000.0 | 1,048.4 | 2,815.8 | 2,864.3 | 52.7 | 46.9 | J-1 | J-115 | P-164 | 9.68 | True |
| J-115 | 5.2 | 1,000.0 | 1,005.2 | 2,511.4 | 2,516.6 | 52.4 | 46.9 | J-1 | J-118 | P-168 | 10.00 | True |
| J-116 | 5.2 | 1,000.0 | 1,005.2 | 2,299.4 | 2,304.6 | 52.0 | 46.9 | J-1 | J-120 | P-168 | 10.00 | True |
| J-117 | 5.2 | 1,000.0 | 1,005.2 | 2,126.9 | 2,132.1 | 52.2 | 46.9 | J-1 | J-116 | P-168 | 10.00 | True |
| J-118 | 5.2 | 1,000.0 | 1,005.2 | 2,432.6 | 2,437.8 | 52.1 | 46.9 | J-1 | J-122 | P-168 | 10.00 | True |
| J-119 | 5.2 | 1,000.0 | 1,005.2 | 2,352.7 | 2,357.8 | 52.3 | 46.9 | J-1 | J-121 | P-168 | 10.00 | True |
| J-120 | 5.2 | 1,000.0 | 1,005.2 | 2,293.6 | 2,298.7 | 52.4 | 46.9 | J-1 | J-119 | P-168 | 10.00 | True |
| J-121 | 5.2 | 1,000.0 | 1,005.2 | 1,561.6 | 1,566.7 | 50.1 | 46.9 | J-1 | J-119 | P-174 | 10.00 | True |
| J-122 | 5.2 | 1,000.0 | 1,005.2 | 1,561.6 | 1,566.7 | 49.4 | 46.9 | J-1 | J-118 | P-175 | 10.00 | True |
| J-123 | 7.2 | 1,000.0 | 1,007.2 | 2,945.4 | 2,952.6 | 52.5 | 46.9 | J-1 | J-124 | P-176 | 10.00 | True |
| J-124 | 7.2 | 1,000.0 | 1,007.2 | 2,766.2 | 2,773.4 | 51.3 | 46.9 | J-1 | J-127 | P-180 | 10.00 | True |
| J-125 | 7.2 | 1,000.0 | 1,007.2 | 2,331.8 | 2,339.0 | 52.0 | 46.9 | J-1 | J-127 | P-179 | 10.00 | True |
| J-126 | 7.2 | 1,000.0 | 1,007.2 | 2,502.6 | 2,509.8 | 52.9 | 46.9 | J-1 | J-127 | P-180 | 10.00 | True |
| J-127 | 7.2 | 1,000.0 | 1,007.2 | 2,492.2 | 2,499.5 | 50.1 | 46.9 | J-1 | J-124 | P-179 | 10.00 | True |
| J-128 | 6.4 | 1,000.0 | 1,006.4 | 2,984.2 | 2,990.6 | 51.5 | 46.9 | J-1 | J-134 | P-184 | 10.00 | True |
| J-129 | 6.4 | 1,000.0 | 1,006.4 | 2,666.4 | 2,672.8 | 51.3 | 46.9 | J-1 | J-133 | P-186 | 10.00 | True |
| J-130 | 6.4 | 1,000.0 | 1,006.4 | 2,975.1 | 2,981.5 | 51.3 | 46.9 | J-1 | J-135 | P-187 | 10.00 | True |
| J-131 | 6.4 | 1,000.0 | 1,006.4 | 2,977.2 | 2,983.6 | 51.1 | 46.9 | J-1 | J-132 | P-186 | 10.00 | True |
| J-132 | 6.4 | 1,000.0 | 1,006.4 | 2,657.0 | 2,663.4 | 49.2 | 46.9 | J-1 | J-131 | P-186 | 9.17 | True |
| J-133 | 6.4 | 1,000.0 | 1,006.4 | 2,631.8 | 2,638.2 | 50.8 | 46.9 | J-1 | J-132 | P-191 | 10.00 | True |
| J-134 | 6.4 | 1,000.0 | 1,006.4 | 2,960.4 | 2,966.8 | 50.8 | 46.9 | J-1 | J-132 | P-186 | 10.00 | True |
| J-135 | 6.4 | 1,000.0 | 1,006.4 | 2,993.2 | 2,999.6 | 51.0 | 46.9 | J-1 | J-131 | P-186 | 10.00 | True |
| J-136 | 8.1 | 1,000.0 | 1,008.1 | 2,743.6 | 2,751.7 | 48.0 | 46.9 | J-1 | J-137 | P-202 | 9.59 | True |
| J-137 | 8.1 | 1,000.0 | 1,008.1 | 2,681.8 | 2,689.9 | 48.2 | 46.9 | J-1 | J-136 | P-200 | 10.00 | True |
| J-138 | 8.1 | 1,000.0 | 1,008.1 | 2,130.1 | 2,138.1 | 50.0 | 46.9 | J-1 | J-137 | P-200 | 10.00 | True |
| J-139 | 8.1 | 1,000.0 | 1,008.1 | 2,579.1 | 2,587.2 | 50.7 | 46.9 | J-1 | J-137 | P-201 | 10.00 | True |
| J-140 | 8.1 | 1,000.0 | 1,008.1 | 2,766.2 | 2,774.3 | 50.3 | 46.9 | J-1 | J-136 | P-204 | 10.00 | True |
| J-141 | 8.1 | 1,000.0 | 1,008.1 | 2,326.8 | 2,334.9 | 47.6 | 46.9 | J-1 | J-137 | P-200 | 10.00 | True |
| J-142 | 4.3 | 1,000.0 | 1,004.3 | 2,926.9 | 2,931.2 | 48.6 | 46.9 | J-1 | J-145 | P-210 | 10.00 | True |
| J-143 | 4.3 | 1,000.0 | 1,004.3 | 2,565.6 | 2,570.0 | 49.1 | 46.9 | J-1 | J-151 | P-210 | 10.00 | True |
| J-144 | 0.0 | 1,000.0 | 1,000.0 | 2,410.7 | 2,410.7 | 49.2 | 46.9 | J-1 | J-147 | P-210 | 10.00 | True |
| J-145 | 4.3 | 1,000.0 | 1,004.3 | 2,222.1 | 2,226.5 | 47.5 | 46.9 | J-1 | J-150 | P-211 | 10.00 | True |
| J-146 | 4.3 | 1,000.0 | 1,004.3 | 2,601.0 | 2,605.3 | 46.5 | 46.8 | J-149 | J-149 | P-210 | 9.81 | True |
| J-147 | 4.3 | 1,000.0 | 1,004.3 | 2,563.3 | 2,567.6 | 46.0 | 46.8 | J-152 | J-152 | P-210 | 10.00 | True |
| J-148 | 4.3 | 1,000.0 | 1,004.3 | 2,149.2 | 2,153.6 | 48.0 | 46.8 | J-147 | J-152 | P-215 | 10.00 | True |
| J-149 | 4.3 | 1,000.0 | 1,004.3 | 1,562.4 | 1,566.7 | 44.3 | 46.5 | J-146 | J-146 | P-216 | 10.00 | True |
| J-150 | 4.3 | 1,000.0 | 1,004.3 | 1,562.4 | 1,566.7 | 45.2 | 46.9 | J-1 | J-145 | P-217 | 10.00 | True |

| Label | Demand (gpm) | Fire Flow (Needed) (gpm) | Flow (Total Needed) (gpm) | Fire Flow (Available) (gpm) | Flow (Total Available) (gpm) | Pressure (Calculated Residual @ Total Flow Needed) (psi) | Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi) | Junction w/ Minimum Pressure (Zone @ Total Flow Needed) | Junction w/ Minimum Pressure (System) | Pipe w/ Maximum Velocity | Maximum Velocity (ft/s) | Satisfies Fire Flow Constraints? |
|-------|--------------|--------------------------|---------------------------|-----------------------------|------------------------------|--|--|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|
| J-151 | 4.3 | 1,000.0 | 1,004.3 | 1,562.4 | 1,566.7 | 47.1 | 46.9 | J-1 | J-147 | P-218 | 10.00 | True |
| J-152 | 4.3 | 1,000.0 | 1,004.3 | 2,300.0 | 2,304.3 | 45.4 | 46.5 | J-147 | J-147 | P-215 | 10.00 | True |
| J-153 | 5.1 | 1,000.0 | 1,005.1 | 3,197.5 | 3,202.6 | 49.8 | 46.9 | J-1 | J-161 | P-221 | 9.37 | True |
| J-154 | 5.1 | 1,000.0 | 1,005.1 | 2,483.4 | 2,488.5 | 49.7 | 46.9 | J-1 | J-158 | P-222 | 10.00 | True |
| J-155 | 5.1 | 1,000.0 | 1,005.1 | 2,956.3 | 2,961.4 | 49.8 | 46.9 | J-1 | J-159 | P-222 | 9.71 | True |
| J-156 | 5.1 | 1,000.0 | 1,005.1 | 2,519.9 | 2,525.0 | 50.6 | 46.9 | J-1 | J-160 | P-225 | 10.00 | True |
| J-157 | 0.0 | 1,000.0 | 1,000.0 | 3,315.0 | 3,315.0 | 51.7 | 46.9 | J-1 | J-156 | P-226 | 9.17 | True |
| J-158 | 5.1 | 1,000.0 | 1,005.1 | 2,483.6 | 2,488.7 | 48.6 | 46.9 | J-1 | J-154 | P-222 | 10.00 | True |
| J-159 | 5.1 | 1,000.0 | 1,005.1 | 1,561.6 | 1,566.7 | 48.4 | 46.9 | J-1 | J-155 | P-229 | 10.00 | True |
| J-160 | 5.1 | 1,000.0 | 1,005.1 | 1,561.6 | 1,566.7 | 49.1 | 46.9 | J-1 | J-147 | P-230 | 10.00 | True |
| J-161 | 5.1 | 1,000.0 | 1,005.1 | 2,417.2 | 2,422.3 | 49.1 | 46.9 | J-1 | J-162 | P-231 | 10.00 | True |
| J-162 | 5.1 | 1,000.0 | 1,005.1 | 2,438.8 | 2,443.9 | 47.2 | 46.9 | J-1 | J-161 | P-231 | 9.33 | True |
| J-163 | 5.1 | 1,000.0 | 1,005.1 | 2,895.9 | 2,901.0 | 49.8 | 46.9 | J-1 | J-162 | P-231 | 10.00 | True |
| J-164 | 4.5 | 1,000.0 | 1,004.5 | 2,587.9 | 2,592.4 | 50.1 | 46.9 | J-1 | J-167 | P-237 | 10.00 | True |
| J-165 | 4.5 | 1,000.0 | 1,004.5 | 2,193.9 | 2,198.5 | 50.8 | 46.9 | J-1 | J-167 | P-237 | 10.00 | True |
| J-166 | 0.0 | 1,000.0 | 1,000.0 | 2,615.8 | 2,615.8 | 52.0 | 46.9 | J-1 | J-165 | P-238 | 10.00 | True |
| J-167 | 4.5 | 1,000.0 | 1,004.5 | 2,330.9 | 2,335.4 | 49.3 | 46.9 | J-1 | J-164 | P-237 | 10.00 | True |
| J-168 | 4.5 | 1,000.0 | 1,004.5 | 2,571.1 | 2,575.6 | 51.4 | 46.9 | J-1 | J-171 | P-241 | 10.00 | True |
| J-169 | 4.5 | 1,000.0 | 1,004.5 | 2,994.0 | 2,998.5 | 51.3 | 46.9 | J-1 | J-172 | P-244 | 10.00 | True |
| J-170 | 4.5 | 1,000.0 | 1,004.5 | 2,328.4 | 2,333.0 | 51.6 | 46.9 | J-1 | J-173 | P-244 | 10.00 | True |
| J-171 | 4.5 | 1,000.0 | 1,004.5 | 1,562.2 | 1,566.7 | 49.9 | 46.9 | J-1 | J-147 | P-245 | 10.00 | True |
| J-172 | 4.5 | 1,000.0 | 1,004.5 | 1,562.2 | 1,566.7 | 49.7 | 46.9 | J-1 | J-147 | P-246 | 10.00 | True |
| J-173 | 4.5 | 1,000.0 | 1,004.5 | 1,562.2 | 1,566.7 | 49.6 | 46.9 | J-1 | J-147 | P-247 | 10.00 | True |

AFFIDAVIT OF Mailing of Notice of Hearing*

I, Alex Fish, Applicant for case PZ-PD-006-21, PZ-006-21 (Case number), personally caused 34 mailer(s) to be mailed by first class post regarding the public hearing associated with case Midway PZ-PD-006-21, PZ-006-21 on 3/25/2022 (Date), on a form prescribed by the planning division at least 28 days before the Planning and Zoning Commission Public Hearing, regarding the proposed PAD and MCPA (Type of application), in unincorporated Pinal County.

The notice(s) and mailing lists were mailed as attached.

Alex Fish
Applicant

STATE OF ARIZONA)
) SS:
COUNTY OF PINAL)



Subscribed and sworn to me by ~~Me~~ Sandra Friedlander this 25th day of March, 2022.

Sandra Friedlander
Notary Public
My Commission Expires: January 13, 2025

* as directed by your staff Coordinator
* please attach the mailer and the list addresses

1. 4T FARMS LLC PO BOX 189 STANFIELD, AZ 85172
2. ABCDW LLC FKA BADC LLC 1121 W WARNER RD STE 109 TEMPE, AZ 85284
3. BDD STUDS LLC PO BOX 189 MARICOPA, AZ 85139
4. BRYCON RESIDENTIAL CONST... 134 FRONTAGE RD NE RIO RANCHO, NM 87124
5. CARDONA CRUZ & CHARLOTT... 2935 N WHISPERING WINDS R... MARICOPA, AZ 85139
6. CLB FAMILY LLC 15420 E SILVER CREEK CT GILBERT, AZ 85298
7. CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284
8. ENTITLEMENTS LLC 1121 W WARNER RD STE 109 TEMPE, AZ 85284
9. FB5 LLC 2040 S ALMA SCHOOL RD STE ... CHANDLER, AZ 85286
10. HAM MESA LLC PO BOX 15662 PHOENIX, AZ 85060
11. JAVORSKI PAUL A & CAROL A 3045 N WHISPERING WINDS R... MARICOPA, AZ 85139
12. JB HOLDINGS INC MAIL RETURN
13. JOHNSTON BILL JR PO BOX 226 MARICOPA, AZ 85139
14. KILLIAN C MAX TR 4445 E HOLMES AVE STE 102 MESA, AZ 85206
15. KINDER MORGAN PO BOX 4372 HOUSTON, TX 77210
16. MARICOPA INVESTMENTS INC 14 N GRAND AVE FT THOMAS, KY 41075
17. MELANIE MIDWAY II LLC 2776 E VIRGINIA ST GILBERT, AZ 85296
18. MERIDIAN 80 LLC 1121 W WARNER RD STE 109 TEMPE, AZ 85284
19. PANTANO MIDWAY LLC 2776 E VIRGINIA ST GILBERT, AZ 85296
20. PBS & SM MIDWAY IV LLC 2776 E VIRGINIA ST GILBERT, AZ 85296
21. PLANNING DIVISION 85 N. FLORENCE STREET FIRST FLOOR, P.O. BOX 2973 FLORENCE, AZ 85132
22. RANCHO LOGAN MARICOPA LL... 8723 N 67TH ST PARADISE VALLEY, AZ 85253
23. RED RIVER EL DORADO 6500 L... 8501 N SCOTTSDALE RD STE 1... SCOTTSDALE, AZ 85253
24. RICHARDSON STEPHEN E & VI... 2763 S LARKSPUR ST GILBERT, AZ 85295
25. RIO INVESTMENTS LLC 1955 W BASELINE RD 113-319 MESA, AZ 85202
26. SA LOAN FUND LLC 1670 E RIVER RD STE 124 TUCSON, AZ 85718
27. SIMMONS HOLDINGS LLC PO BOX 2480 GILBERT, AZ 85299
28. STATE OF ARIZONA PO BOX 1348 FLORENCE, AZ 85132
29. STELLAR HOMES FINANCIAL G... 5727 N 7TH ST STE 407 PHOENIX, AZ 85014
30. TIM T LLC 731 N SMITH RD MARICOPA, AZ 85138
31. TOUSA RECOVERY ACQUISITI... 4350 E CAMELBACK RD STE A-... PHOENIX, AZ 85018
32. TP MIDWAY SPE LLC 1121 W WARNER RD STE 109 TEMPE, AZ 85284
33. TRES POINTS LLC 1121 W WARNER RD STE 109 TEMPE, AZ 85284
34. TRINITY FARMS INC PO BOX 4909 SCOTTSDALE, AZ 85261

Pinal County
AFFIDAVIT OF POSTING BROADCAST SIGN

I, the applicant's representative for case # PZ-006-21/PZ-PD-006-21, personally caused at least one sign to be posted in a visible place on or near the proposed project site at NEC Louis Johnson Dr and Teel Rd, at least 28 days before the Planning and Zoning Commission Public Hearing, in Pinal County.

See attached photo exhibit.

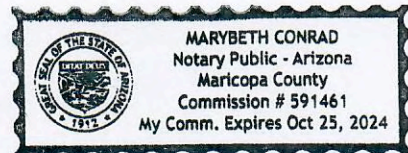
Dynamite Signs
Sign Company Name

Meghan Liggett
Sign Company Representative

Subscribed and sworn to be on 03/23/22 by Meghan Liggett.

IN WITNESS WHEREOF, I Hereto set my hand and official seal.

Mary Beth Conrad
Notary Public



My Commission expires: 10-25-24

PINAL COUNTY *Public Hearings*

Case Numbers: PZ-006-21/PZ-PD-006-21

Existing Zoning: SR PAD, CR-3 PAD, CR-4 PAD, CR-5 PAD
and CB-1 PAD

Proposed Zoning: R-7 PAD, MD PAD, MR PAD and C-1 PAD

Acreage: 704.05 Acres

Applicant Name: Alex Fish

Applicant Phone Number: 480-503-0718

Public Hearing
Information



Case Information Available at Pinal County Planning & Development Services
(520) 866-6442

NLA-1

45240–45598 W Louis Johnson Dr
Maricopa AZ 85139
+32.939716,-112.065539

Wednesday, March 23, 2022 at 1:19:00 PM

PINAL COUNTY *Public Hearings*

Case Numbers: PZ-006-21/PZ-PD-006-21

Existing Zoning: SR PAD, CR-3 PAD, CR-4 PAD, CR-5 PAD
and CB-1 PAD

Proposed Zoning: R-7 PAD, MD PAD, MR PAD and C-1 PAD

Acreage: 704.05 Acres

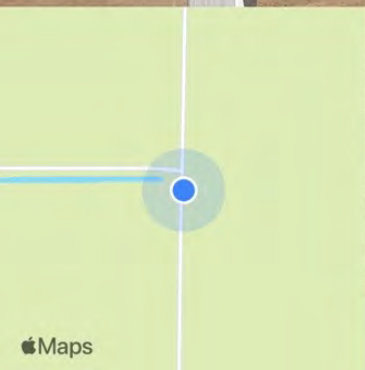
Applicant Name: Alex Fish

Applicant Phone Number: 480-503-0718

Public Hearing
Information



Case Information Available at Pinal County Planning & Development Services
(520) 866-6442



N Green Rd
Maricopa AZ 85139
+32.954028,-112.065563

Wednesday, March 23, 2022 at 1:42:32 PM

PINAL COUNTY *Public Hearings*

Case Numbers: PZ-006-21/PZ-PD-006-21

Existing Zoning: SR PAD, CR-3 PAD, CR-4 PAD, CR-5 PAD
and CB-1 PAD

Proposed Zoning: R-7 PAD, MD PAD, MR PAD and C-1 PAD

Acreage: 704.05 Acres

Applicant Name: Alex Fish

Applicant Phone Number: 480-503-0718

Case Information Available at Pinal County Planning & Development Services
(520) 866-6442

Public Hearing
Information



45556 W Louis Johnson Dr
Maricopa AZ 85139
+32.956410,-112.048240

Wednesday, March 23, 2022 at 2:26:57 PM

PINAL COUNTY *Public Hearings*

Case Numbers: PZ-006-21/PZ-PD-006-21

Existing Zoning: SR PAD, CR-3 PAD, CR-4 PAD, CR-5 PAD
and CB-1 PAD

Proposed Zoning: R-7 PAD, MD PAD, MR PAD and C-1 PAD

Acreage: 704.05 Acres

Applicant Name: Alex Fish

Applicant Phone Number: 480-503-0718

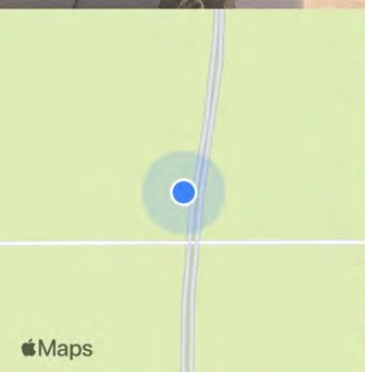
Public Hearing
Information



Case Information Available at Pinal County Planning & Development Services
(520) 866-6442

45556 W Louis Johnson Dr
Maricopa AZ 85139
+32 941080,-112.049437

Wednesday, March 23, 2022 at 4:22:06 PM



Apple Maps

600ft Buffer from Midway I PAD

| | | |
|---|--|--|
| , | , | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |
| , | CARDONA CRUZ & CHARLOTT... 2935 N WHISPERING WINDS R... MARICOPA, AZ 85139 | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |
| , | TRINITY FARMS INC PO BOX 4909 SCOTTSDALE, AZ 85261 | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |
| , | 4T FARMS LLC PO BOX 189 STANFIELD, AZ 85172 | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |
| , | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |
| , | JAVORSKI PAUL A & CAROL A 3045 N WHISPERING WINDS R... MARICOPA, AZ 85139 | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |
| , | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |
| , | RIO INVESTMENTS LLC 1955 W BASELINE RD 113-319 MESA, AZ 85202 | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |
| , | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |
| , | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 | CLB REAL PROPERTY HOLDIN... 1121 W WARNER RD STE 109 TEMPE, AZ 85284 |

CLB REAL PROPERTY HOLDIN...
1121 W WARNER RD STE 109
TEMPE, AZ 85284

PBS & SM MIDWAY IV LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

RED RIVER EL DORADO 6500 L...
8501 N SCOTTSDALE RD STE 1...
SCOTTSDALE, AZ 85253

CLB REAL PROPERTY HOLDIN...
1121 W WARNER RD STE 109
TEMPE, AZ 85284

ABCDW LLC FKA BADC LLC
1121 W WARNER RD STE 109
TEMPE, AZ 85284

BDD STUDS LLC
PO BOX 189
MARICOPA, AZ 85139

CLB REAL PROPERTY HOLDIN...
1121 W WARNER RD STE 109
TEMPE, AZ 85284

PANTANO MIDWAY LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

PBS & SM MIDWAY IV LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

CLB REAL PROPERTY HOLDIN...
1121 W WARNER RD STE 109
TEMPE, AZ 85284

MELANIE MIDWAY III LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

MARICOPA INVESTMENTS INC
14 N GRAND AVE
FT THOMAS, KY 41075

CLB REAL PROPERTY HOLDIN...
1121 W WARNER RD STE 109
TEMPE, AZ 85284

MELANIE MIDWAY III LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

TP MIDWAY SPE LLC
1121 W WARNER RD STE 109
TEMPE, AZ 85284

CLB REAL PROPERTY HOLDIN...
1121 W WARNER RD STE 109
TEMPE, AZ 85284

MELANIE MIDWAY III LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

KINDER MORGAN
PO BOX 4372
HOUSTON, TX 77210

CLB REAL PROPERTY HOLDIN...
1121 W WARNER RD STE 109
TEMPE, AZ 85284

PANTANO MIDWAY LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

RED RIVER EL DORADO 6500 L...
8501 N SCOTTSDALE RD STE 1...
SCOTTSDALE, AZ 85253

CLB REAL PROPERTY HOLDIN...
1121 W WARNER RD STE 109
TEMPE, AZ 85284

PANTANO MIDWAY LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

PBS & SM MIDWAY IV LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

CLB REAL PROPERTY HOLDIN...
1121 W WARNER RD STE 109
TEMPE, AZ 85284

JB HOLDINGS INC
MAIL RETURN
,

KINDER MORGAN
PO BOX 4372
HOUSTON, TX 77210

CLB FAMILY LLC
15420 E SILVER CREEK CT
GILBERT, AZ 85298

SA LOAN FUND LLC
1670 E RIVER RD STE 124
TUCSON, AZ 85718

KINDER MORGAN
PO BOX 4372
HOUSTON, TX 77210

KINDER MORGAN
PO BOX 4372
HOUSTON, TX 77210

RED RIVER EL DORADO 6500 L...
8501 N SCOTTSDALE RD STE 1...
SCOTTSDALE, AZ 85253

ENTITLEMENTS LLC
1121 W WARNER RD STE 109
TEMPE, AZ 85284

PANTANO MIDWAY LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

JOHNSTON BILL JR
PO BOX 226
MARICOPA, AZ 85139

RANCHO LOGAN MARICOPA LL...
8723 N 67TH ST
PARADISE VALLEY, AZ 85253

PBS & SM MIDWAY IV LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

PINAL COUNTY
PO BOX 827
FLORENCE, AZ 85132

STATE OF ARIZONA
PO BOX 1348
FLORENCE, AZ 85132

PINAL COUNTY
PO BOX 827
FLORENCE, AZ 85132

JOHNSTON BILL JR
PO BOX 226
MARICOPA, AZ 85139

TOUSA RECOVERY ACQUISITI...
4350 E CAMELBACK RD STE A-...
PHOENIX, AZ 85018

TP MIDWAY SPE LLC
1121 W WARNER RD STE 109
TEMPE, AZ 85284

TOUSA RECOVERY ACQUISITI...
4350 E CAMELBACK RD STE A-...
PHOENIX, AZ 85018

BRYCON RESIDENTIAL CONST...
134 FRONTAGE RD NE
RIO RANCHO, NM 87124

SIMMONS HOLDINGS LLC
PO BOX 2480
GILBERT, AZ 85299

PINAL COUNTY
PO BOX 827
FLORENCE, AZ 85132

MERIDIAN 80 LLC
1121 W WARNER RD STE 109
TEMPE, AZ 85284

STELLAR HOMES FINANCIAL G...
5727 N 7TH ST STE 407
PHOENIX, AZ 85014

RICHARDSON STEPHEN E & VI...
2763 S LARKSPUR ST
GILBERT, AZ 85295

BRYCON RESIDENTIAL CONST...
134 FRONTAGE RD NE
RIO RANCHO, NM 87124

TP MIDWAY SPE LLC
1121 W WARNER RD STE 109
TEMPE, AZ 85284

TRES POINTS LLC
1121 W WARNER RD STE 109
TEMPE, AZ 85284

TOUSA RECOVERY ACQUISITI...
4350 E CAMELBACK RD STE A-...
PHOENIX, AZ 85018

PBS & SM MIDWAY IV LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

FB5 LLC
2040 S ALMA SCHOOL RD STE ...
CHANDLER, AZ 85286

HAM MESA LLC
PO BOX 15662
PHOENIX, AZ 85060

KILLIAN C MAX TR
4445 E HOLMES AVE STE 102
MESA, AZ 85206

HAM MESA LLC
PO BOX 15662
PHOENIX, AZ 85060

TRES POINTS LLC
15420 E SILVER CREEK CT
GILBERT, AZ 85298

PINAL COUNTY
PO BOX 827
FLORENCE, AZ 85132

4T FARMS LLC
PO BOX 189
STANFIELD, AZ 85172

MELANIE MIDWAY II LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296

PINAL COUNTY
PO BOX 827
FLORENCE, AZ 85132

TIM T LLC
731 N SMITH RD
MARICOPA, AZ 85138

MELANIE MIDWAY II LLC
2776 E VIRGINIA ST
GILBERT, AZ 85296