

| RUN                                | FROM STRUCTURE | INVERT ELEVATION | TO STRUCTURE | INVERT ELEVATION | PIPE SLOPE % | STORM SEWERS, CLASS A, TYPE 1 |          |          |          | STORM SEWER (WATER MAIN REQUIREMENTS) |          |          |          | PIPE CULVERT CL A TY 1 24" | CLSM CU YD | TRENCH BACKFILL CU YD |
|------------------------------------|----------------|------------------|--------------|------------------|--------------|-------------------------------|----------|----------|----------|---------------------------------------|----------|----------|----------|----------------------------|------------|-----------------------|
|                                    |                |                  |              |                  |              | 12" FOOT                      | 15" FOOT | 18" FOOT | 24" FOOT | 12" FOOT                              | 15" FOOT | 18" FOOT | 24" FOOT |                            |            |                       |
| 301                                | 101            | 723.87           | 103          | 718.76           | -3.25        |                               |          |          |          | 157.2                                 |          |          |          |                            | 8.1        |                       |
| 302                                | 102            | 723.65           | 105          | 718.41           | -3.47        | 151.0                         |          |          |          |                                       |          |          |          |                            | 11.2       |                       |
| 303                                | 103            | 718.75           | 104          | 718.68           | -1.00        |                               |          |          |          | 7.0                                   |          |          |          |                            |            |                       |
| 304                                | 104            | 718.64           | 108          | 717.24           | -2.45        |                               |          |          |          | 57.0                                  |          |          |          |                            | 7.5        |                       |
| 305                                | 106            | 718.53           | 105          | 718.46           | -1.00        | 7.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 306                                | 105            | 718.34           | 111          | 715.38           | -2.16        | 137.0                         |          |          |          |                                       |          |          |          |                            | 18.0       |                       |
| 307                                | 107            | 717.33           | 108          | 717.26           | -1.00        |                               |          |          |          | 7.0                                   |          |          |          |                            |            |                       |
| 308                                | 108            | 717.17           | 110          | 715.28           | -2.45        |                               |          |          |          | 77.0                                  |          |          |          |                            | 10.1       |                       |
| 309                                | 109            | 715.50           | 110          | 715.43           | -1.00        |                               |          |          |          | 7.0                                   |          |          |          |                            |            |                       |
| 310                                | 110            | 715.22           | 114          | 713.35           | -1.60        |                               |          |          |          | 117.0                                 |          |          |          |                            | 16.6       |                       |
| 311                                | 112            | 715.53           | 111          | 715.46           | -1.00        | 7.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 312                                | 111            | 715.31           | 115          | 712.79           | -2.16        | 117.0                         |          |          |          |                                       |          |          |          |                            | 21.5       |                       |
| 313                                | 113            | 713.59           | 114          | 713.52           | -1.00        |                               |          |          |          | 7.0                                   |          |          |          |                            |            |                       |
| 314                                | 114            | 713.30           | 117          | 712.07           | -1.60        |                               |          |          |          | 77.0                                  |          |          |          |                            | 5.4        |                       |
| 315                                | 116            | 712.91           | 115          | 712.84           | -1.00        | 7.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 316                                | 115            | 712.48           | 118          | 711.54           | -0.85        |                               | 110.0    |          |          |                                       |          |          |          |                            | 21.0       |                       |
| 317                                | 117            | 711.70           | 120          | 710.49           | -0.90        |                               |          |          |          | 134.0                                 |          |          |          |                            |            |                       |
| 318                                | 121            | 710.49           | 120          | 710.39           | -1.00        |                               |          |          |          | 10.3                                  |          |          |          |                            |            |                       |
| 319                                | 119            | 711.95           | 118          | 711.88           | -1.00        | 7.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 320                                | 118            | 711.52           | 124          | 710.46           | -0.85        |                               | 124.3    |          |          |                                       |          |          |          |                            | 16.7       |                       |
| 321                                | 122            | 710.11           | 123          | 709.95           | -0.50        |                               |          |          |          |                                       | 31.3     |          | 5.5      |                            |            |                       |
| 322                                | 124            | 710.44           | 125          | 710.06           | -0.85        |                               | 44.9     |          |          |                                       |          |          | 7.7      |                            |            |                       |
| 323                                | 123            | 709.94           | 126          | 709.61           | -0.50        |                               |          |          |          |                                       | 66.0     |          |          |                            |            |                       |
| 324                                | 125            | 709.74           | 129          | 709.24           | -0.85        |                               |          | 61.3     |          |                                       |          |          |          |                            | 4.5        |                       |
| 325                                | 128            | 710.29           | 127          | 710.39           | -1.00        |                               |          |          |          | 9.7                                   |          |          |          |                            |            |                       |
| 326                                | 127            | 710.25           | 130          | 710.04           | -0.27        |                               |          |          |          | 79.0                                  |          |          |          |                            | 2.2        |                       |
| 327                                | 129            | 708.68           | 131          | 708.40           | -0.40        |                               |          |          | 144.3    |                                       |          |          |          |                            | 59.6       |                       |
| 328                                | 130            | 710.03           | 132          | 709.87           | -0.27        |                               |          |          |          | 58.7                                  |          |          |          |                            | 5.8        |                       |
| 329                                | 131            | 708.10           | 133          | 707.94           | -0.35        |                               |          |          | 46.4     |                                       |          |          |          |                            | 9.8        |                       |
| 330                                | 136            | 709.84           | 135          | 709.76           | -1.00        | 7.5                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 331                                | 135            | 709.73           | 137          | 709.41           | -0.50        | 64.0                          |          |          |          |                                       |          |          |          |                            |            |                       |
| 332                                | 138            | 709.84           | 137          | 709.76           | -1.00        | 8.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 333                                | 139            | 709.48           | 140          | 709.40           | -1.00        | 8.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 334                                | 137            | 709.39           | 141          | 708.96           | -0.50        | 87.0                          |          |          |          |                                       |          |          |          |                            | 17.8       |                       |
| 335                                | 140            | 709.06           | 144          | 708.63           | -0.50        | 87.0                          |          |          |          |                                       |          |          |          |                            | 16.0       |                       |
| 336                                | 143            | 708.99           | 144          | 708.91           | -1.00        | 8.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 337                                | 141            | 708.94           | 145          | 708.73           | -0.50        | 42.0                          |          |          |          |                                       |          |          |          |                            |            |                       |
| 338                                | 142            | 709.10           | 141          | 709.02           | -1.00        | 8.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 339                                | 146            | 708.97           | 145          | 708.89           | -1.00        | 8.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 340                                | 144            | 708.61           | 150          | 708.08           | -0.50        | 107.0                         |          |          |          |                                       |          |          |          |                            | 23.0       |                       |
| 341                                | 145            | 708.72           | 147          | 708.41           | -0.50        | 62.0                          |          |          |          |                                       |          |          |          |                            |            |                       |
| 342                                | 148            | 708.58           | 147          | 708.50           | -1.00        | 8.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 343                                | 149            | 708.57           | 150          | 708.51           | -1.00        | 6.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 344                                | 150            | 708.06           | 154          | 707.80           | -0.50        | 53.8                          |          |          |          |                                       |          |          |          |                            | 13.9       |                       |
| 345                                | 147            | 708.39           | 151          | 708.20           | -0.50        | 38.8                          |          |          |          |                                       |          |          |          |                            |            |                       |
| 346                                | 152            | 707.25           | 151          | 707.19           | -1.00        |                               |          | 6.7      |          |                                       |          |          |          |                            |            |                       |
| 347                                | 153            | 707.64           | 152          | 707.28           | -1.00        |                               |          | 36.0     |          |                                       |          |          | 14.4     |                            |            |                       |
| 348                                | 153            | 709.00           | 154          | 708.95           | -1.00        | 5.4                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 349                                | 157            | 707.93           | 151          | 707.51           | 0.50         |                               | 82.3     |          |          |                                       |          |          |          |                            | 13.2       |                       |
| 350                                | 156            | 708.31           | 154          | 708.11           | 0.50         |                               | 39.3     |          |          |                                       |          |          |          |                            | 10.6       |                       |
| 351                                | 155            | 709.18           | 156          | 709.12           | -1.00        | 6.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 352                                | 160            | 708.58           | 156          | 708.32           | 0.50         |                               | 52.0     |          |          |                                       |          |          |          |                            | 9.3        |                       |
| 353                                | 158            | 709.17           | 157          | 709.09           | -1.00        | 8.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 354                                | 164            | 708.57           | 157          | 707.94           | 0.50         |                               | 126.5    |          |          |                                       |          |          |          |                            | 39.0       |                       |
| 355                                | 159            | 708.98           | 160          | 708.92           | -1.00        | 6.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 356                                | 167            | 709.17           | 160          | 708.60           | 0.50         |                               | 114.5    |          |          |                                       |          |          |          |                            | 15.3       |                       |
| 357                                | 161            | 709.44           | 162          | 709.38           | -1.00        |                               |          |          |          | 5.7                                   |          |          |          |                            |            |                       |
| 358                                | 162            | 709.38           | 163          | 709.01           | -1.00        |                               |          |          |          | 44.6                                  |          |          | 9.9      |                            |            |                       |
| 359                                | 163            | 708.70           | 164          | 708.59           | -1.00        |                               | 23.4     |          |          |                                       |          |          |          |                            |            |                       |
| 360                                | 165            | 708.88           | 164          | 708.80           | -1.00        | 8.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 361                                | 166            | 709.42           | 167          | 709.36           | -1.00        | 6.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| 362                                | 170            | 709.80           | 167          | 709.24           | 0.50         | 112.5                         |          |          |          |                                       |          |          |          |                            | 13.7       |                       |
| 363                                | 168            | 709.17           | 163          | 708.72           | 0.50         |                               | 89.5     |          |          |                                       |          |          | 23.0     |                            |            |                       |
| 364                                | 172            | 710.16           | 171          | 710.08           | -1.00        |                               |          |          |          | 8.0                                   |          |          |          |                            |            |                       |
| 365                                | 169            | 709.97           | 170          | 709.91           | -1.00        | 6.0                           |          |          |          |                                       |          |          |          |                            |            |                       |
| FILL EXISTING CULVERT STA 26+54.92 |                |                  |              |                  |              |                               |          |          |          |                                       |          |          | 6.2      |                            |            |                       |
| SAFETY LIMIT TOTALS                |                |                  |              |                  |              | 1,194.0                       | 806.7    | 104.0    | 190.7    | 718.9                                 | 144.3    | 97.3     | 0.0      | 0.0                        | 66.6       | 389.8                 |

NOTE: SEE LOCATION MAP ON COVER SHEET FOR FUNDING LIMITS to SAFETY, STP, AND NHS.