



# STORM SEWER SYSTEM

**PID :** 116570 **Date :** 07/02/2023 **Project :** ERI-006

**Location :** Camp Roundabout

**Description :** D709-HW703 West Leg, North Side Storm Run

**Designer :** BLS

**Rainfall Area:** A

**Just Full Capacity Frequency (yrs.) :** 10

**Hydraulic Gradient Frequency (yrs.) :** 25

**Minimum Pipe Size :** 12.00

**Tailwater Elevation (ft.):** 0.00

| JUNCTION<br>From | STATION<br>To | From<br>To | Δ AREA            | Δ CA         | BEGIN          | RAINFALL               |           | DISCHARGE |           | PIPE           |                 |                    | F/L PIPE          | MEAN          | JUST FULL          | FRICT              | HYGR EL.          | COVER             | COVER          | COVER          | INLET TYPE       |
|------------------|---------------|------------|-------------------|--------------|----------------|------------------------|-----------|-----------|-----------|----------------|-----------------|--------------------|-------------------|---------------|--------------------|--------------------|-------------------|-------------------|----------------|----------------|------------------|
|                  |               |            | Σ AREA<br>(acres) | Σ CA         | TIME<br>(min.) | INTENSITY<br>(10 yrs.) | (25 yrs.) | (10 yrs.) | (25 yrs.) | DIAM.<br>(in.) | LENGTH<br>(ft.) | SLOPE<br>(ft./ft.) | IN / OUT<br>(ft.) | VEL<br>(fps.) | CAPACITY<br>(cfs.) | SLOPE<br>(ft./ft.) | IN / OUT<br>(ft.) | IN / OUT<br>(ft.) | MINUS<br>HY GR | MINUS<br>CROWN | MANNING'S<br>'n' |
| D709             | D705          |            | 0.11<br>0.11      | 0.10<br>0.10 | 10.00          | 4.94                   | 5.53      | 0.5       | 0.5       | 12             | 62.0            | 0.0040             | 608.90<br>608.65  | 2.07          | 2.11               | 0.0003             | 609.32<br>609.30  | 612.33<br>612.20  | 3.01           | 2.43           | CB 3<br>0.015    |
| D705             | D703          |            | 0.10<br>0.21      | 0.09<br>0.19 | 10.50          | 4.85                   | 5.31      | 0.9       | 1.0       | 12             | 161.0           | 0.0040             | 608.65<br>608.00  | 2.46          | 2.11               | 0.0011             | 609.16<br>608.71  | 612.20<br>611.00  | 3.04           | 2.55           | CB 3<br>0.015    |
| D704             | D703          |            | 0.19<br>0.40      | 0.17<br>0.36 | 10.00          | 4.94                   | 5.01      | 0.8       | 0.9       | 12             | 7.0             | 0.0143             | 608.00<br>607.90  | 3.82          | 3.97               | 0.0008             | 608.61<br>608.60  | 610.40<br>611.00  | 1.79           | 1.40           | CB 3<br>0.015    |
| D703             | HW70          |            | 0.12<br>0.52      | 0.11<br>0.47 | 11.59          | 4.65                   | 5.01      | 2.2       | 2.3       | 15             | 262.0           | 0.0027             | 607.75<br>607.05  | 2.59          | 3.11               | 0.0018             | 608.60<br>607.98  | 611.00<br>609.00  | 2.40           | 2.00           | CB 2-2B<br>0.015 |