



**BENCH MARKS**

- BM #10+00**  
TOP OF PK NAIL STA 10+00 NORTHWEST CORNER OF BOAT PARKING AREA ELEVATION 616.65
- BM #15**  
THE HIGHEST POINT OF THE LARGE ROCK STA 16+03 +/- 20' RT ELEVATION 637.86
- BM "C"**  
STA 411+00 RT - (NORTHWEST CORNER OF N9TH STREET AND THE DAM ACCESS ROAD) ON THE NORTH RIM BOLT OF THE FIRE HYDRANT ELEVATION 653.51
- BM #A**  
THE TOP OF THE GUARDRAIL POST, BASE LINE STA 425+00 ELEVATION 646.40
- BM #TA 9/13**  
THE TOP OF THE GUARDRAIL POST, BASE LINE STA 431+88 ELEVATION 646.40
- BM #TB 9/13**  
NORTHWEST CORNER OF THE CONCRETE SLAB WHICH THE SITTING BENCH SETS UPON STA 53+00 RT ELEVATION 625.73
- BM "CC"**  
NORTHWEST CORNER OF CONCRETE GRILL SLAB LARGE PAVILION STA. 54+97 LT ELEVATION 624.42
- BM "9/20 AA"**  
THE TOP OF THE GAURDRAIL POST, BASE LINE STA 442+72 ELEVATION= 644.84

<p><b>Curve #1</b>                  P.I. STA. = 18+50                  Δ = 55-00-00                  D = 49-42-37                  R = 115.26                  T = 60.00                  L = 110.64                  E = 14.68                  P.C. STA. = 17+90.00                  P.T. STA. = 19+00.64</p>	<p><b>Curve #9</b>                  P.I. STA. = 424+60                  Δ = 51-00-00                  D = 34-09-39                  R = 167.72                  T = 80.00                  L = 149.29                  E = 18.10                  P.C. STA. = 423.80.00                  P.T. STA. = 425.29.29</p>	<p><b>Curve #17</b>                  P.I. STA. = 436+73.05                  Δ = 49-30-00                  D = 44-01-22                  R = 130.15                  T = 60.00                  L = 112.16                  E = 13.16                  P.C. STA. = 436+13.05                  P.T. STA. = 437+25.49</p>	<p><b>Curve #D (Lower Level)</b>                  P.I. STA = 58+50.00                  Δ = 36-30-00                  D = 41-59-07                  R = 136.47                  T = 45.00                  L = 86.94                  E = 7.23                  P.C. STA = 58+05.00                  P.T. STA = 58+91.94</p>
<p><b>Curve #2</b>                  P.I. STA. = 400+75                  Δ = 64-30-00                  D = 40-10-04                  R = 142.64                  T = 90.00                  L = 160.58                  E = 26.02                  P.C. STA. = 399+85.00                  P.T. STA. = 401+45.58</p>	<p><b>Curve #10</b>                  P.I. STA. = 426+90                  Δ = 34-15-00                  D = 44-08-05                  R = 129.82                  L = 77.60                  E = 6.03                  P.C. STA. = 426+50.00                  P.T. STA. = 427+60.00</p>	<p><b>Curve #18A</b>                  P.I. STA = 440+85.00 "LT"                  Δ = 46-45-00                  D = 26-04-04                  R = 219.80                  T = 95.00                  L = 179.34                  E = 19.65                  P.C. STA = 439+90.00                  P.T. STA = 441+69.34</p>	<p><b>Curve #E (Lower Level)</b>                  P.I. STA = 61+05.00                  Δ = 65-15-00                  D = 33-20-35                  R = 171.84                  T = 110.00                  L = 195.69                  E = 32.19                  P.C. STA = 59+95.00                  P.T. STA = 61+90.69</p>
<p><b>Curve #3</b>                  P.I. STA. = 404+61                  Δ = 26-30-00                  D = 11-15-39                  R = 115.26                  T = 60.00                  L = 110.64                  E = 14.68                  P.C. STA. 403+41.00                  P.T. STA. 405+76.33</p>	<p><b>Curve #11</b>                  P.I. STA. = 427+70                  Δ = 50-45-00                  D = 54-21-03                  R = 105.42                  T = 50.00                  L = 93.37                  E = 11.26                  P.C. STA. = 427+30.00                  P.T. STA. = 428+23.37</p>	<p><b>Curve #18B</b>                  P.I. STA = 440+45.00 "RT"                  Δ = 20-30-00                  D = 10-21-39                  R = 553.01                  T = 100.00                  L = 197.86                  E = 8.97                  P.C. STA = 439+45.00                  P.T. STA = 441+42.86</p>	<p><b>Curve #I (Lower Level Return loop)</b>                  P.I. STA = 58+00.00 (A)                  Δ = 16-15-00                  D = 8-10-48                  R = 700.45                  T = 100.00                  L = 198.66                  E = 7.10                  P.C. = 57+00.00 (A)                  P.T. = 58+98.66 (A)</p>
<p><b>Curve #4</b>                  P.I. STA. = 408+80                  Δ = 89-30-00                  D = 51-38-04                  R = 110.96                  T = 110.00                  L = 173.33                  E = 45.28                  P.C. STA. 407+70.00                  P.T. STA. 409.43.33</p>	<p><b>Curve #12</b>                  P.I. STA. = 428+85                  Δ = 33-30-00                  D = 28-44-24                  T = 60.00                  L = 116.56                  E = 8.83                  P.C. STA. = 428+25.00                  P.T. STA. = 429+41.56</p>	<p><b>Curve #19</b>                  P.I. STA = 443+20.00 "LT"                  Δ = 89-15-00                  D = 59-31-37                  R = 96.25                  T = 95.00                  L = 149.93                  E = 38.99                  P.C. STA = 442+25.00                  P.T. STA = 443+74.93</p>	<p><b>Curve #J (Lower Level Return Loop)</b>                  P.I. STA = 60+16.00 (A)                  Δ = 103-30-00                  D = 63-11-58                  R = 90.66                  T = 115.00                  L = 163.77                  E = 55.78                  P.C. = 59+01.00                  P.T. = 60+64.77</p>
<p><b>Curve #5</b>                  P.I. STA. = 416+82                  Δ = 44-30-00                  D = 42-37-08                  R = 134.44                  T = 55.00                  L = 104.41                  E = 10.82                  P.C. STA. = 416+27.00                  P.T. STA. = 417+31.41</p>	<p><b>Curve #13</b>                  P.I. STA. = 431+10 "BK"                  Δ = 84-30-00                  D = 32-31-39                  R = 176.15                  T = 160.00                  L = 259.78                  E = 61.82                  P.C. STA. = 429+50.00                  P.T. STA. = 432+09.78</p>	<p><b>Curve #20</b>                  P.I. STA = 442+45.00 "RT"                  Δ = 77-30-00                  D = 51-05-39                  R = 112.14                  T = 90.00                  L = 151.68                  E = 31.65                  P.C. STA = 441+55.00                  P.T. STA = 443+06.68</p>	<p><b>Curve #K (Lower Level)</b>                  P.I. STA = 53+15.00                  Δ = 92-15-00                  D = 18-55-04                  R = 302.87                  T = 315.00                  L = 487.64                  E = 134.12                  P.C. STA = 50+00.00                  P.T. STA = 54+87.64</p>
<p><b>Curve #6</b>                  P.I. STA. = 417+95                  Δ = 44-00-00                  D = 38-34-54                  R = 148.51                  T = 60.00                  L = 114.04                  E = 11.66                  P.C. STA. = 417+35.00                  P.T. STA. = 418+49.04</p>	<p><b>Curve #14</b>                  P.I. STA. = 431+51.00 "AH"                  Δ = 49-30-30                  D = 48-02-03                  R = 119.28                  T = 55.00                  L = 103.07                  E = 12.07                  P.C. STA = 430+96.00                  P.T. STA = 431+99.07</p>	<p><b>Curve #A (Lower Level)</b>                  P.I. STA = 53+15.00                  Δ = 92-15-00                  D = 18-55-04                  R = 302.87                  T = 315.00                  L = 487.64                  E = 134.12                  P.C. STA = 50+00.00                  P.T. STA = 54+87.64</p>	<p><b>Curve #L (Lower Level Return Loop)</b>                  P.I. STA = 61+20.50 (A)                  Δ = 30-45-00                  D = 29-10-33                  R = 196.38                  T = 54.00                  L = 105.40                  E = 7.29                  P.C. = 60+66.50 (A)                  P.T. = 61+71.90 (A)</p>
<p><b>Curve #7</b>                  P.I. STA. = 419+20                  Δ = 26-30-00                  D = 44-58-16                  R = 127.41                  T = 30.00                  L = 58.93                  E = 3.48                  P.C. STA. = 418+90.00                  P.T. STA. = 419+48.93</p>	<p><b>Curve #15</b>                  P.I. STA. = 432+54.07 "AH"                  Δ = 53-00-00                  D = 51-56-22                  R = 110.31                  T = 55.00                  L = 102.04                  E = 12.95                  P.C. STA = 431+99.07                  P.T. STA = 433+01.11</p>	<p><b>Curve #B (lower level)</b>                  P.I. STA = 56+50.00                  Δ = 35-15-00                  D = 33-05-46                  R = 173.12                  T = 55.00                  L = 106.51                  E = 8.53                  P.C. STA = 55+95.00                  P.T. STA = 57+01.51</p>	<p><b>Curve #M (Lower Level)</b>                  P.I. STA = 57+51.51                  Δ = 56-45-00                  D = 61-53-41                  R = 92.57                  T = 50.00                  L = 91.69                  E = 12.64                  P.C. STA = 57+01.51                  P.T. STA = 57+93.20</p>
<p><b>Curve #8</b>                  P.I. STA. = 420+45                  Δ = 69-00-00                  D = 43-45-14                  R = 130.95                  T = 90.00                  L = 157.70                  E = 27.95                  P.C. STA. = 419+55.00                  P.T. STA. = 421+12.70</p>	<p><b>Curve #16</b>                  P.I. STA = 435+60.00                  Δ = 47-30-00                  D = 42-01-04                  R = 136.36                  T = 60.00                  L = 113.05                  E = 12.62                  P.C. STA = 435+00.00                  P.T. STA = 436+13.05</p>	<p><b>Curve #C (Lower Level)</b>                  P.I. STA = 57+51.51                  Δ = 56-45-00                  D = 61-53-41                  R = 92.57                  T = 50.00                  L = 91.69                  E = 12.64                  P.C. STA = 57+01.51                  P.T. STA = 57+93.20</p>	

CITY OF SHELBYVILLE	
DATE: 02-11-09	APPROVED BY: [Signature]
DRAWN BY: SAS	REVISION: Cbp
CURVE DATA	