

# DETENTION EXHIBIT

## FIRST CHOICE STUDENT BUS PARKING - NORTH SITE

WICHITA, SEDGWICK COUNTY, KANSAS



**West Existing Area**  
 D.A. = 1.7 ac  
 CN = 75  
 Tc = 15 min  
 Q<sub>2</sub> = 0.9 cfs  
 Q<sub>5</sub> = 2.4 cfs  
 Q<sub>10</sub> = 4.0 cfs  
 Q<sub>100</sub> = 11.1 cfs

**East Existing Area**  
 D.A. = 3.6 ac  
 CN = 75  
 Tc = 15 min  
 Q<sub>2</sub> = 1.9 cfs  
 Q<sub>5</sub> = 5.1 cfs  
 Q<sub>10</sub> = 6.4 cfs  
 Q<sub>100</sub> = 25 cfs

**WEST DRY DETENTION (Bottom = 1320.0)**

| STAGE  | INFLOW  | OUTFLOW | ELEVATION |
|--------|---------|---------|-----------|
| 2 yr   | 3.7 cfs | 0.3 cfs | 1320.5    |
| 10 yr  | 7.7 cfs | 1.1 cfs | 1321.0    |
| 100 yr | 15 cfs  | 3.3 cfs | 1321.5    |

**PROPOSED POND**

| ELEVATION | AREA (sq ft) |
|-----------|--------------|
| 1320      | 6000         |
| 1321      | 1900         |
| 1322      | 3500         |

**EAST DRY DETENTION (Bottom = 1320.0)**

| STAGE  | INFLOW  | OUTFLOW | ELEVATION |
|--------|---------|---------|-----------|
| 2 yr   | 6.1 cfs | 2.0 cfs | 1320.9    |
| 10 yr  | 16 cfs  | 6.0 cfs | 1321.1    |
| 100 yr | 33 cfs  | 16 cfs  | 1321.5    |

**PROPOSED POND**

| ELEVATION | AREA (sq ft) |
|-----------|--------------|
| 1320      | 3800         |
| 1321      | 1200         |
| 1322      | 3500         |

NOTE: Proposed Pavement Grades shown are PRELIMINARY only and are subject to change at site plan.