



Erosion Control Mat  
(North American Green S75  
or Approved Equal, See  
Erosion Control Sheets)

Existing Conditions (24-Hour Storm)								
Site	Area	CN	1-Year	2-Year	5-Year	10-Year	25-Year	100-Year
KTA to Channel	41.01	90.5	74.63	100.45	134.96	160.76	195.02	246.07
Site to Channel	38.97	65.6	10.15	20.88	38.60	53.40	74.55	108.38
Site to Pond	8.77	76.8	9.65	15.05	22.92	29.10	37.55	50.47

Developed Conditions (24-Hour Storm)								
Site	Area	CN	1-Year	2-Year	5-Year	10-Year	25-Year	100-Year
KTA to Channel	39.88	90.8	82.05	110.66	147.42	174.86	211.25	265.47
Site to Channel	10.03	90.0	23.53	31.58	42.31	50.32	60.96	76.80
Site to Pond	38.84	84.8	72.95	103.03	144.13	175.25	216.83	279.08

Stage (elev)	Storage (acre-ft)	Discharge (cfs)*
1259.50	0.00	0.000
1260.50	1.92	4.058
1261.50	4.03	4.455
1262.50	6.34	4.866
1263.50	8.86	5.290
1264.00	10.22	5.508
1265.00	13.06	5.725
1265.50	14.54	10.880

DWS=1265.00  
4'-Wide Overflow Weir

\* Discharge rate includes pond infiltration rate of 2"/hr

NOTE: Detention pond shall be constructed concurrently with initial grading of property; ensure any sediment accumulated during construction is dredged upon completion of each project phase.

**FINAL**  
 Engineer: T. AUSTIN  
 Designer: M. TUCKER  
 P.O. Job No.: 1558  
 Date: JANUARY 2014  
 Sheet 11 of 43

**POE & ASSOCIATES, INC.**  
 CONSULTING ENGINEERS  
 5940 E. Central, Suite 200 • Wichita, KS 67208-4242  
 Phone 316/685-1111 • FAX 316/685-4444

**POE**

SOUTH FORK COMMERCIAL ADDITION  
 PAVING & DRAINAGE IMPROVEMENTS  
 DETENTION POND  
**CITY OF WICHITA, KANSAS**  
 GARY JANZEN, P.E. - CITY ENGINEER  
 PROJECT NO. 468-84826 OCA NO. (751507)  
 PROJECT NO. 472-85050 OCA NO. (766279)

No.	Date	By	Approved	Revision