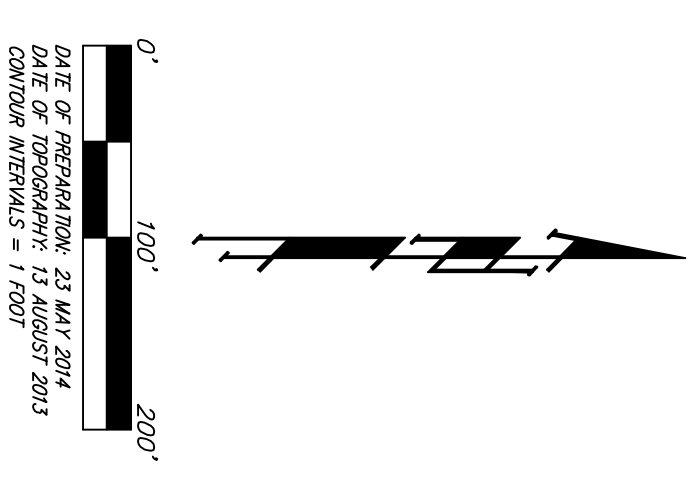


DRAINAGE CONCEPT

THE WATERFRONT SEVENTH ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



DATE OF REVISION: 21 MAR 2014
 DATE OF DEVELOPMENT: 12 AUGUST 2013
 CONTOUR INTERVALS = 1 FOOT

- CS = Catch Basin
- CB = Cable TV Pedestal
- EB = Electric Box
- MB = Gas Meter
- ICV = Irrigation Control Valve - Valve Box
- LP = Light Pole Mast
- SMW = Sanitary Sewer Manhole
- ATF = AT Federal
- ATF Pad = ATF Federal
- TR = Tree
- HT = Hydro Transformer
- HTM = Hot Water
- HTL = Hot Water
- HTW = Hot Water
- HTM = Transformer

- WM = WATER LINE
- ATF = AT Federal
- A-1X1 = A-1X1
- CAS = GAS
- CAE = CABLE TV
- COV = COV
- SSW = SANITARY SEWER
- UES = UNDERGROUND ELECTRIC LINE
- UE = UE

TOTAL SITE FLOWS	
EXISTING [pre detention]	DEVELOPED [pre detention]
Area = 24.6 acres	Area = 24.6 acres
CN = 84	CN = 91
Tc = 30 min	Tc = 36 min
Q 2 = 31 cfs	Q 2 = 49 cfs
Q 3 = 44 cfs	Q 3 = 67 cfs
Q 10 = 34 cfs	Q 10 = 79 cfs
Q 100 = 92 cfs	Q 100 = 124 cfs

CN's and Tc's used are to match the approved
 Waterfront 7th Drainage Plan by MKEC to correspond
 to the original pond design.

SWS Pipes as shown will be sized and final location determined at
 Final Plan and Drainage Plan.

Ponds located in Reserve C were sized and constructed in
 previous phases of Waterfront Additions. The ponds currently
 provide detention and water quality treatment. Downstream
 Channel Protection is provided by the Waterfront complex pond
 system [per approved Waterfront 7th Drainage Plan, MKEC 2012].

Table 3.2 - Normal Pool Volumes

EMA	EMA	Area	Pool Vol.	Cont. Vol.	Cont. Vol.
(ft ²)	(ft ²)	(acres)	(ft ³)	(ft ³)	(ft ³)
1391	17,500	63,5705	0	0.0	
1381	20,137	42,523	82,670	1.6	
1366	54,468	105,729	2.4		
1365	75,383	89,6423	20.0		

At the normal pool elevation of 1314.4, a minimum water quality pool volume of 20 acre-ft is provided. This pool will remove the required zone of back-swept total suspended solids (TSS) from the stormwater runoff. The pool will also provide a minimum water quality pool volume of 20 acre-ft. The pool will act as a standard wet pond with 100% of the WQV contained within the permanent pool volume.

DRAINAGE CONCEPT
THE WATERFRONT
SEVENTH ADDITION

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03 JUN 2013