

## DESIGN AND CONSTRUCTION MANUAL DESIGN MODIFICATION REQUEST

PROJECT NAME: Lee's Summit Joint Operations Facility

PREMISE ADDRESS: 2 NE Tudor Road

PERMIT NUMBER:						
OWNER'S NAME:   City of Lee's Summit	OWNER'S NAME:   City of Lee's Summit					
TO: The City Engineer In accordance with the Lee's Summit Design and Construction Manual (DCM) Section 1002.A, I wish to apply for a modification to one or more specification (s). The following articulates my request for your review and action. (NOTE: Cite specific code sections and engineering justification and drawings.)						
The request is for a modification to emergency spillway to the top of be Retention Performance Criteria. Thi 0.70-ft. See attached summary of d	rm per APWA 5608.4 Sto is request is to modify the	ormwater Detenio	on and			
SUBMITTED BY:  NAME: Michael Makris, P.E.  ADDRESS: 7101 College Blvd, Suite 400  CITY, STATE, ZIP Overland Park, KS, 66210  Email: Mike.Makris@ibhc.com	)	17. Mile	<u> </u>			
FORWARDING MANAGER:	RECOMMENDATION	( ) APPROVAL	( ) DENIAL			
SIGNATURE:	DATE:	(t				
GEORGE BINGER III, P.E. – CITY ENGINEER:	( ) APPROVED	( ) DENIED				
SIGNATURE:	DATE:					
COMMENTS						
A COPY MUST BE ATTACHED TO THE APPROVED PLANS						

## Design and Construction Manual - Modification Request - Spillway Depth

## **Summary of Request:**

The request is to allow the development of the Lee's Summit Police Joint Operations Facility and Detention Modifications.

The proposed detention will be provided by modification of the existing dry detention pond. Presently, the outlet of the pond includes two 30" CMP outlet pipes, the proposed solutions considers replacing the existing CMP structures an outlet control structure with a weir wall.

The current emergency overflow spillway discharges onto property proposed for multifamily construction. This creates potential for downstream flooding during an event that activates the emergency spillway. To prevent this the proposed design raises the top of berm height to 1005.50 and relocates the spillway to the discharge on Commerce Drive. To provide the flow required for the 100-year event the spillway will need to be constructed of concrete and include a retaining wall to stabilize the berm along the northside of the site.

Proposed Detention Pond			
Storm Event	Peak Release (cfs)	Stage Storage Elevation	
Water Quality	0.37	997.5	
*2-year	23.73	999.49	
10-year	34.50	1000.85	
100-year	55.61	1002.75	
Bottom of Spillway		1003.75	
Top of Spillway		1004.70	
Top of Berm		1005.50	

Full documentation of this design is provided in the Final Stormwater Management Report for the Lee's Summit Joint Operations Campus.

