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**DRAINAGE REPORT
FOR
WEST TOWNE INDUSTRIAL
SECOND ADDITION
WICHITA, SEDGWICK COUNTY,
KANSAS**

July 9, 2008



WEST TOWNE INDUSTRIAL 2nd ADDITION
DRAINAGE ANALYSIS
November 16, 2007

INTRODUCTION

This report contains the documentation and calculations for the proposed plat West Towne Industrial Second Addition. This site consists of lot 1 West Towne Industrial Addition, portion of Hoover Road Right of Way and a portion of the abandoned A.T.&S.F Railroad Right of Way. Located between Hoover Road and the Wichita-Valley Center Flood Control Right of Way, and south of the vacated A.T.&S.F. Railroad Right of Way. The area is currently zoned Limited Industrial and shown "Zone X" according to the Fema/Firm Community Panel # 200328 0345E. Existing off-site drainage travels along the West edge of the property, in the Hoover Road East side road ditch and along the East edge of the property, on the Flood Control Right of Way.

The site will be developed into two lots with commercial property and adjacent parking lot.

HYDROLOGY

A site drainage plan for West Towne Industrial Addition was developed and approved in 1997. The Drainage Plan for West Towne Industrial 2nd Addition is to preserve the previously approved drainage plan with the amendment to incorporate the vacated railroad and Hoover Road Right of Ways. The drainage analysis of existing and proposed drainage conditions were modeled using the Rational Method. Design variables for Time of Concentration, Rainfall Intensity, and Runoff Coefficients have been determined using the City of Wichita Drainage and Storm Sewer Policy for Design Criteria and Documentation. These results are shown the Drainage Plan attached.

On site runoff detention was note required because this site is directly adjacent to the Big Slough Right of Way and this Flood Control Right of Way includes ponding areas outside the levee system and has been developed to accommodate detention for this local area. The Proposed Drainage Conditions change from the Existing Conditions by a increase the runoff to west, into the Hoover Road Ditch and reduces the runoff to the East, into the Flood Control Right of Way. This change is an increase of 1.9cfs during a 5 Year Rainfall Event and 3.7cfs during a 100 Year Rainfall Event. Downstream Road Right of Way and ditches have been developed to accommodate this change.

SUMMARY

Attached is an original copy of the Drainage Plan, Preliminary Plat, a copy of the FIRMette.