

Drainage Report

Mount Carmel River Addition, To Wichita, Sedgwick County, Kansas



November 2007



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Drainage Report

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- Drainage Plan
- Final Plat
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Drainage Report

MOUNT CARMEL RIVER ADDITION

Introduction

The subject property is located on Mount Carmel north of 18th Street North, about one-half mile east of West Street. The property was previously platted. The tract of land is under one acre and is zoned single family SF-5. We are platting the property into one single-family lot from the current two single-family lots.

Current Conditions

The site is served by City of Wichita utilities. Single family residential abuts the property on the east, west and south, and by the river on the north. The property has a single house on it. The soils are a Type B, with a low runoff coefficient. There are no signs of wetlands and the land is not in a floodplain. The land drains to the north to the river. The site drains at a slope of about 0.3%.

The attached plat with topography shows existing features including contours and utilities, and proposed easements.

Proposed Improvements

There are no proposed improvements.

Site Hydrological Analysis

Existing site conditions have been modeled using the rational method. The Values for Rainfall Intensity and Runoff Coefficients were established using the *Drainage and Storm Sewer Policy for Design Criteria and Documentation, City of Wichita, Kansas*. A time of concentration of 15 minutes was used as the minimum inlet time. A proposed time of concentration of 15 minutes was also used. Results are shown on the drainage plan.

Future Development

There will be no future development of this plat.