

REPORT SUMMARY

GENERAL SCOPE

This report will cover the preliminary drainage calculations for the proposed Gander Mountain Retail Store. The site is currently a undeveloped tract of land located at the southwest corner of the intersection of Wichita Street and Dewey Street in Wichita, KS, a part of the Southeast Quarter (SE/4) of Section Twenty (20), Township Twenty-seven (27), Range One (1) East. This report presents the preliminary supporting calculations and exhibits for the storm sewer improvements.

HISTORIC CONDITIONS

The proposed site historically was an industrial and commercial building area of Wichita. Street location appears to be the same general location as the present layout. With the close proximity of the Arkansas River, one can assume that stormwater runoff flowed directly to the river via sheet flow in the streets and any underground storm sewer systems that were in place at the time.

PRESENT CONDITIONS

The existing site is currently a sparsely grassed vacant city lot. Rainwater sheet flows in an easterly direction to an area drain inlet and a curb inlet located in Wichita Street. Runoff is collected and piped underground through existing 60 inch and 42 inch storm sewer pipes. These pipes flow westerly along the south portion of the proposed site and discharge into the Arkansas River.

DRAINAGE SUMMARY

The proposed Gander Mountain Store will be constructed so that surface runoff from the east and south sides of the building site will drain to the east and be collected by the existing storm sewer system. Building roof drainage and runoff from the north side of the building will be collected locally and piped underground with discharge points directly into the Arkansas River.