



DATE: October 30, 2015

TO: Project file, Kenosha Road and Grass Lake Road Culvert Replacement

FROM: Paula Trigg, County Engineer

SUBJ: Emergency Procurement for Culvert Replacement on Kenosha Road and Grass Lake Road

The purpose of this memo is to explain the need for an emergency procurement to replace the culverts on Kenosha Road 300 feet north of 21st Street, and on Grass Lake Road 625 feet east of IL Route 83. The procurement will include all necessary professional engineering services and contractual construction services based on quotations and expertise rather than the sealed bidding process.

The Lake County Division of Transportation (LCDOT) regularly inspects the culverts in our system and we have a repair and replacement schedule in place to help manage this asset. Earlier this summer, one of the culverts scheduled for replacement in 2016 unexpectedly collapsed. With careful inspection, it was determined that heavy rains earlier in the year had caused the culvert to deteriorate more quickly than expected.

This event prompted our maintenance crews to go out and take another look at some of the older culverts in the system that would soon be due for replacement. We spent a great deal of time continuously monitoring these culverts to watch for changing conditions.

As a result of this analysis, we have made the decision to replace two additional culverts before winter. While both culverts are currently safe, we don't want to take the chance that either will deteriorate should the elements be worse than expected over the winter season.

The Kenosha Road culvert is a 42 inch circular corrugated metal pipe installed in 1966. The culvert is heavily rusted at the waterline and throughout the culvert, with section loss and holes present. The Grass Lake Road culvert is a 3' x 3' concrete box culvert installed in 1939. Significant portions of the vertical culvert walls near the culvert base have deteriorated and eroded away, leaving exposed reinforcement bars and openings in the culvert walls. Additionally, there is settlement in the Grass Lake Road pavement above the culvert.

Kenosha Road and Grass Lake Road are county owned highways and therefore it is the position of Lake County that the need to remedy and repair the culverts to protect the traveling public constitutes an emergency and justifies invoking Article 6-103 of the Lake County Purchasing Ordinance. Kenosha Road will have one way traffic during the repair (with a flagger) and Grass Lake Road will require a roadway closure that will be less than 5 days.

Therefore, as County Engineer of Lake County, I hereby declare that an emergency exists, and that the term as defined in Article 6-103 of the Lake County Purchasing Ordinance effective February 12, 2013 exists, and I hereby invoke Article 6-103 of the Lake County Purchasing Ordinance.

Furthermore, I am hereby directing my staff to determine which contractual construction firms would appropriately implement the determined repair. The selected construction firm shall include within their recommendation pricing, quantities, and overall costs for the implementation of the recommended remedy.

An appropriation of funds for the above-said professional engineering services and contract construction services will be presented to the County Board at its December 8, 2015 meeting or a future meeting.



Paula J Trigg
Director of Transportation/County Engineer