



COLLIN COUNTY

Special Projects
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November 11, 2015

To: Judge Self and Commissioners

From: Clarence Daugherty, P.E., Director of Engineering

Re: Award of Construction Contract to Repair Erosion Underneath Bridge on
County Road 419 at Brinlee Creek - Bond Project No. 07-0014
(Location Map Attached)

Collin County contracted with Dannenbaum Engineering for the design of a new bridge to replace existing culverts on County Road 419 at Brinlee Creek. A construction contract in the amount of \$323,052 was subsequently awarded to Massana Construction and the bridge work was substantially completed in June 2014.

During the flooding rains in May of this year, a storm event occurred in which the water surface elevation exceeded the 100 year design elevation by 1.5 feet. This event resulted in significant erosion of the stone rip rap protection underneath and alongside the bridge. Before and after photographs are attached for your reference.

With the bridge work completed, it would be difficult to get equipment underneath the bridge structure to replace the rock rip rap material. As such, Dannenbaum has developed a new design that would replace the rip rap underneath the bridge with concrete, which can be pumped into place from above.

Massana Construction has provided a proposal in the amount of \$49,738.00 to perform the repair work (see attached). They estimate this amount to be roughly half of their actual cost to make the needed repairs. Funding for this project would come from County bond projects that were completed under budget.

The Engineering Department requests Commissioners Court's authorization to enter into a contract with Massana Construction for this work. If approved, a budget amendment in the amount of \$49,738 to cover the repair cost is requested.

We will be available to answer any questions you might have regarding this matter.

xc: Bill Bilyeu
Monika Arris
Matt Dobecka
Jeff Durham