



COLLIN COUNTY

Public Works Department
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Date: March 14, 2018
To: Commissioners Court
From: Jon Kleinheksel *ck*
Re: CR 1219 Upgrade

The previously planned upgrade of CR1219 has been suspended until certain logistical and financial considerations are finalized. Originally, PW had proposed to pave the road with 2 course asphalt. Due to the nature of the prevailing traffic, PW staff determined this was not a viable option. Traffic consists mainly of heavy trucks (concrete mixers, heavy aggregate haulers) originating from and returning to Charlie's Concrete plant. Chip seal roads are generally not as structurally capable of supporting heavy truck traffic compared to concrete roads. PW performed a traffic study in August 2017 which revealed a utilization of approximately 650 vehicles, most being heavy trucks.

Currently, the surface of half of the road has been ground, processed and compacted (full depth reclamation) but no pavement has been applied yet. The other half from the concrete plant north to FM982 is suffering from advanced pavement distress and displays conspicuous symptoms of shoving, edge cracking, and base failure.

Concerning this section of the road, PW has identified three options

1. Cost participate with Princeton to have a contractor construct an engineered, concrete road
2. Use County staff to FDR and reconstruct the road with 2 course asphalt
3. Add flexbase, blade and compact the road rendering it a rock road

From a cost and durability perspective, option 1 is the optimal solution. The other options will ultimately prove more expensive, require continued maintenance and will not tolerate the heavy loads as well as concrete. Should you require additional information, please contact me and I will respond accordingly.