




COLLIN COUNTY

Public Works Department
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Date: January 31, 2019
To: Commissioner's Court
From: Jon Kleinheksel 
Re: 2019 Proposed Road Projects Schedule

The past few years have presented unique challenges for the Road & Bridge division at Public Works. Since the drought ended in 2014, Collin County has received an unprecedented amount of precipitation. This rainfall and the associated storms were detrimental to our road network and caused moderate to extensive damage to numerous roads. From 2015, roads crews responded to 191 different roads that experienced assorted damage including washed out culverts, bridge erosion and road base failure caused by flooding. The repercussions have been significant to the department's long range plans. PW staff have been forced to defer road projects and city work to focus on addressing storm related road repairs.

Despite this, PW staff has compiled a comprehensive record of anticipated reconstruction projects for 2019 as well as all remaining Capital Improvement Projects to apprise Commissioners' Court of planned activities. The attached documents group the projects into two major categories:

- Capital Improvement Program – Rock/Dirt to Asphalt
- Road Reconstruction (Full Depth Reclamation)

Since its inception, Public Works developed annual upgrade lists based on priority and ease of acquiring necessary ROW. Roads with obstinate landowners were rescheduled for later years and replaced with "ready" roads. Today, we find that most of the remaining roads fall into the "difficult" category due to either mutual boundary or ROW acquisition considerations. Of the 54.07 miles remaining,

- 26.84 miles are active projects and scheduled for upgrade in calendar year 2019 (see attached tentative schedule).
- 23.05 miles are deferred due to possible annexation or pending development.
- 4.18 miles are currently being monitored to determine the financial investment. These roads are seldom used and are either:
 - Field access or dead ends with no residence to actively access property
 - Currently field roads or potentially anticipating future development

Road projects with a significant tree presence along the borders of the roadway will receive increased scrutiny from PW staff. Established practice encourages the removal of trees in this area to preserve the integrity of the new road base. Root systems are known to deplete sub base structures of vital moisture which cause deterioration of the base and subsequent failure of the road surface.

Both road project types (CIP & Reconstruction) will receive a 2 course chip seal pavement surface. This decision was based on accumulated data which asserts a substantial cost and time savings compared to HMAC pavement operations. In addition, Public Works will continue to research industry surface treatments designed to prolong the life cycle of asphalt roads and enhance the visual aesthetics of the recently paved road with a uniform blacktop finish.

Should you require additional information, please contact me and I will respond accordingly.