
To:	Harrison Netz Savion, LLC	From:	Matt Clementi, PE Stantec
File:	Wood County Solar	Date:	July 13, 2020

Reference: Preliminary Estimate – Road Repair Costs

This memo is a preliminary estimate of possible road repair costs due to proposed construction activities associated with the construction of a utility-scale solar facility.

The proposed Wood County Solar facility is expected to generate 150 MWac (Mega Watts – alternating current) with photovoltaic panels on approximately 1200 acres.

During construction of the solar facility, it is assumed that there may be some damage to existing roadways. Over the construction period, approximately 10 semi-truck loads of construction equipment and machinery will be brought onto the site with large off-road equipment (dozers, graders, loaders, etc.). There will be one large, heavy load semi-truck brought onto the site with the substation transformer.

Additionally, there will also be:

- approximately 400-500 semi-trucks with materials for trackers and solar panels.
- approximately 150 concrete trucks.
- approximately 2500 dump-trucks with aggregate materials for internal roadways.
- approximately 10 additional trucks with cable and other equipment and supplies.

Since the vast majority of the truck loads will be standard weight vehicles, the trucks will not be traveling at a high rate of speed, and the existing road base is made up of sandy soils, significant roadway damage is not expected.

However, it is likely that at various access points, the road edges may be damaged by the turning, stopping, and unloading of trucks. It can be estimated that approximately \$20,000 of repairs would be required at approximately 5 locations. Additionally, the intersection of Range Line Road and Blue Ridge Lane will see a significant amount of turning movements which may cause damage, repairs of which could be estimated at \$20,000. Various additional minor repairs could be covered by an additional \$30,000 contingency.

Based on previous town of Saratoga road construction projects, completely rebuilding the affected roadway would cost approximately \$900,000.

Spot repairs based on the above analysis could be estimated at \$150,000.

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