

Rick McClung, Thu 6/3/2021 2:21 PM

Hi Mayor & Katherine,

Please read the email chain below from Roy. There is a problem with the cable system, it looks as though the cable pole spacing would need to be every 2 feet where the road bends and this will cause a visual disturbance and the whole reason for the cable system was to improve the visual over a regular guardrail system.

This will need to be reviewed by council and a decision to be made on how to proceed.

Let me know how I can help and Roy said he would help with any questions.

Thanks,

Rick

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**From:** Roy Kinion [mailto:[rkinion@co.lincoln.or.us](mailto:rkinion@co.lincoln.or.us)] , June 03, 2021 11:21 AM

Rick,

I am forwarding the information that we received from one of the suppliers of the cable system and the comments from Steve Hodge, County Engineer. The system requested by the Yachats City Council does not meet the traffic standards required by Lincoln County Public Works. There will have to be a decision made on how to proceed. I am still offering to give the City of Yachats \$50,000 to pay for the guardrail replacement project so the City could decide what standards they would like to meet and then they could deliver the project. I am willing to discuss this further.

Roy L. Kinion

Public Works Director

Lincoln County, Oregon

541-574-1211

[rkinion@co.lincoln.or.us](mailto:rkinion@co.lincoln.or.us)

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**From:** James Hodge <[jhodge@co.lincoln.or.us](mailto:jhodge@co.lincoln.or.us)>, May 20, 2021 at 10:48 AM

If we were to reduce the pole spacing to 2 foot, we would still have a 6 foot deflection (if we use the straight line reduction for deflection). Now it is true that a slower speed would cause less of a yielding of the cable and a shorter deflection; however, that's assuming the mass of the vehicles are the same (passenger car versus heavy truck). Since speed and mass are variables that we cannot control, it's better to place a barrier system that handles routine traffic conditions. Both the high and low tensions systems fail this application.

Steve Hodge, P.E.

County Engineer

Lincoln County Public Works

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**From:** Don Gripne <[gripnedn@earthlink.net](mailto:gripnedn@earthlink.net)> **Date:** Thu, May 20, 2021 at 9:39 AM

The high tension cable systems that Trinity has cannot be installed with the radii that you have to deal with. Our min. radius is 650'. When you tension high tension cable on a curve, the cable tends to go straight like the cord for a curve. What we look at is the M.O. for the curve to see how far the cable would be from the curve. You will have this problem with any of the high tensions systems.

Before the high tension systems, there was the low tension systems. With this system, it would follow the curve a lot easier than the high tension will. This system has much higher deflection than the high tension. You can put in reduced post spacing which will reduce the deflection. Also, you have low speed, 25 mph. With the speed, the anticipated deflection would be about 20% .

The information I have on the low tension system is that for 16' post spacing, the deflection was determined to be about 11 feet. This would be for a 60 mph speed. With 4' post spacing, the deflection was reduced to 7 feet. If you assume a straight line reduction in deflection between the 16' and 4 foot post spacing, you could come up with a post spacing for the deflection that you would want for your condition.