



March 28<sup>th</sup>, 2022

To:

Sunny Shergill  
Clayton Valley Charter School  
1101 Alberta Way, Concord, CA 94521

From:

Silke Communications  
1771 Vineyard Drive, Suite 6  
Antioch, CA 94509

Regarding:

Radio Tower at Clayton Valley Charter School

Silke Communications Tower Team performed pre-job walk and site inspection of the existing radio tower at Clayton Valley Charter School. The tower's physical condition renders it unsafe to climb currently.

- The tower is leaning in two directions, it must be straightened and aligned.
- The existing guy wires are an old "3 strand" non-specific wire cable. This cable does not have a tensioning specification.
- The existing guy wire turnbuckles have been tightened to the limits and no further adjustment is possible. Some turnbuckle ends have been roofed over in past roofing projects. Guy wires cannot be tightened.
- The guy wire anchors appear to be standard 3/8<sup>th</sup> inch eye-lag bolts screwed into a deteriorating wooden roof.
- The tower's single point base mounting cup and plate are secured with only two bolts, of the four bolt positions, and the mounting cup needs to be inspected to ensure it is per specification.
- The "tower to roof" support structure is showing signs of deflection from the weight and tension of the tower.

Silke Communications strongly recommends the tower and building be inspected by a California Licensed Structural Engineer to review the existing tower's specifications, installation method of tower to the building and current condition of tower and tower mounting.

Silke Communications will be happy to review the Structural Engineer's findings with the team.



***Deflection in tower support mounting frame***



***Guy wire anchor pulling out of roof.***



***Tower mounting plate with two bolts and tower receiving cup***



***Non-Accessible turnbuckle and single cable clamp.***