October 2, 2019

Re: Mast Arm Poles
MP-3 Standard Loads – 90 MPH Wind
Virginia
ATS# 16362-3

This is to certify that the traffic poles for the above referenced intersection were designed in accordance with:

- The project plans and specifications
- VDOT 2016 Road and Bridge Specifications
- The 2013 AASHTO Specification (LTS-6), Using:
  - 90 mph wind velocity with Appendix C
  - 25 Year Recurrence
  - Fatigue Category II (No fatigue loads for mast arms smaller than 50')
    - Natural Wind Gusts (11.2 MPH)
    - No Galloping Loads
    - No truck-induced Gust
  - Maximum Standard Loading (MP-3)

The following identifies this submittal’s documents:

ATS Drawings: 16362-3(A) Rev. B, 16362-3(B) Rev. B & 16362-3(C) Rev. B
Calculations Dated: September 11, 2019, Consisting of 370 pages

In accordance with the Virginia Department of Transportation Road and Bridge Specification, I am a registered Professional Engineer holding a valid license in the Commonwealth of Virginia.

Sincerely,

Armand A. Damiano, P.E.