



Interoffice Memorandum

December 13, 2016

TO: Mayor Teresa Jacobs  
and Board of County Commissioners

FROM: Mark V. Massaro, P. E., Director, Public Works Department

CONTACT PERSON: Ruby Dempsey Rozier, Manager  
Traffic Engineering Division

PHONE NUMBER: (407) 836-7890

SUBJ: **Installation of a Traffic Signal at the Intersection of Winter Garden  
Vineland Road (CR 535) and Lake Cawood Drive / Windermere High  
School Bus Loop**

GMB Engineers & Planners, Inc. staff has conducted a traffic study for the new Windermere High School. The study warrants the installation of a traffic signal at the intersection of Winter Garden Vineland Road (CR 535) and Lake Cawood Drive / Windermere High School Bus Loop.

The study evaluated the traffic flow operation at the proposed bus loop driveway. The results of the analysis indicates that acceptable traffic operating conditions are expected to be maintained at the school's driveway operating under traffic signal control during the a.m. arrival and p.m. dismissal periods. Due to the limited availability of gaps in the traffic stream on Winter Garden Vineland Road (CR 535) especially during the a.m. arrival period, a stop controlled school driveway will operate inefficiently causing very long delays and potentially unsafe conditions as drivers will be forced to take abrupt maneuvers. A signal warrant analysis supports the justification for installing a traffic signal at this location. The traffic signal warrant analysis shows that conditions were satisfied for Warrant 3 (Peak Hour Vehicular Volume).

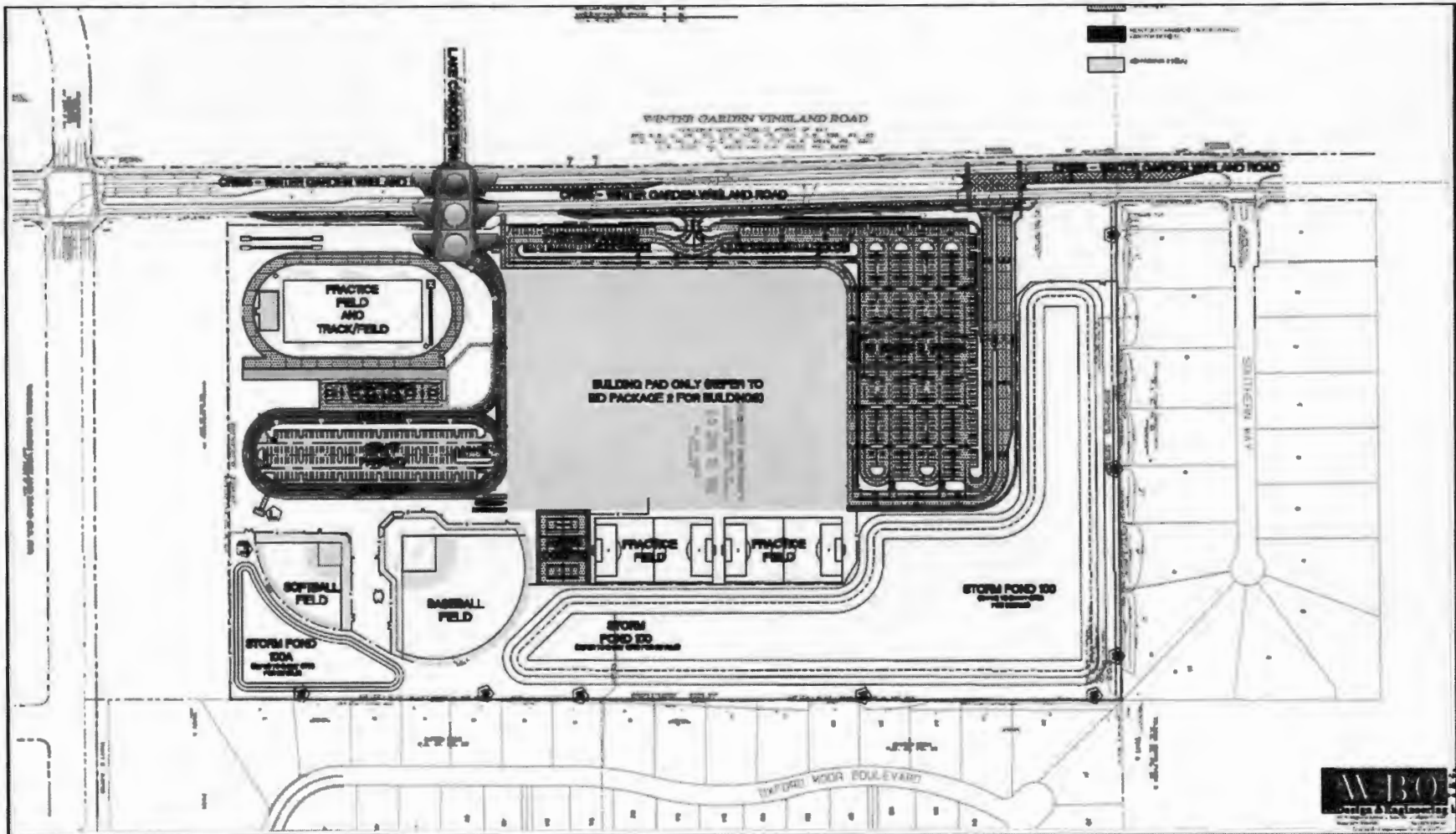
Staff recommends that the Board approve the installation of a traffic signal at the intersection of Winter Garden Vineland Road (CR 535) and Lake Cawood Drive / Windermere High School Bus Loop.

**Action Requested: Approval of installation of a traffic signal at the intersection of  
Winter Garden Vineland Road (CR 535) and Lake Cawood  
Drive / Windermere High School Bus Loop. District 1.**

MVM/RDR/AHW/nad

Attachments

# CR 535 and Lake Cawood Drive Location Map



**Proposed Signal**  
**District 1: Commissioner Betsy VanderLey**