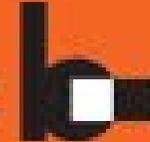


# Orange County Public Schools



**WINNER**

the broad prize  
for urban education



Traffic Considerations – COVE Committee  
October 15, 2015

## Typical Task Assignments (Starting 2014)

- **Evaluate Existing Schools**
  - Traffic Counts at Existing Driveways / Site Visual Reviews
  - Traffic Analysis / Comparison
  - Adjacent Street LOS (If required – may lead to off-site analysis)
  - Recommendations for Site Improvements
- **Capital Renewal/Comprehensive/Replacement Schools**
  - Traffic Counts at Existing Driveways / Site Visual Reviews
  - Traffic Analysis / Trip Generation / Comparison
  - Adjacent Street LOS (If required – may lead to off-site analysis)
  - Recommendations for Site Plan Development
- **New Schools**
  - Traffic Counts on Adjacent Streets
  - Trip Generation / Trip Assignment to Adjacent Streets
  - Adjacent Street LOS
  - Off-site Improvement Analysis

## Schools Evaluated to Date

- Elementary Schools

- Lake Weston (Comprehensive)
- Audubon Park (Existing)
- Avalon Park (Existing)
- Lockhart (Comprehensive)
- Millenia (New)
- Tangelo Park (Comprehensive)
- Dream Lake (Replacement)
- Riverside (Replacement)

- Middle Schools

- Liberty (Capital Renewal)
- Avalon (New)
- Carver (Comprehensive)
- Maitland (Existing)

# Trip Data Summary

- Trip Generation ES (AM School and Road Peak)
  - Range 36% - 104% of Student Population
  - Average = 65% of Student Population (55% enter, 45% exit)
  - ITE Code (national standard) = 45% of Student Population
- Trip Generation MS (PM School and Road Peak)
  - Range 17% - 45% of Student Population
  - Average = 29% of Student Population (45% enter, 55% exit)
  - ITE Code = 30% of Student Population
- Trip Generation MS (AM School Peak)
  - Range 21% - 58% of Student Population
  - Average = 43% of Student Population
  - ITE Code = 54% of Student Population

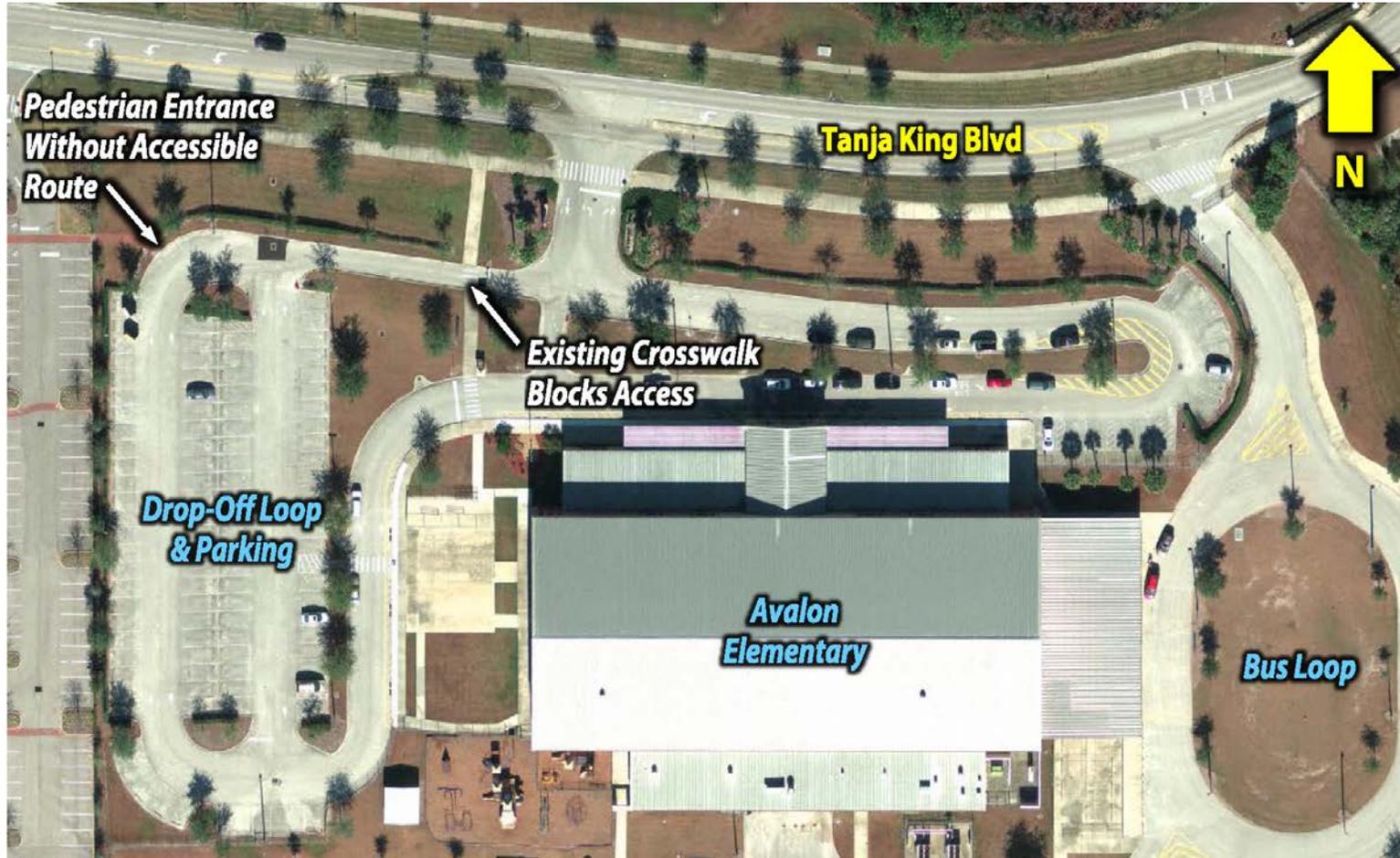
# Stacking / Queue Analysis

- Visual Estimates
  - AM Queue closely corresponds to 15 minute peak traffic counts
  - 15 minute Peak ranges 30-50% of Peak Entrance Hour Traffic
  - Based on Peak Hour Trips (previous slide)
    - ES Queue = 10 – 18% of Student Population
    - MS Queue = 7 – 12% of Student Population
- Range Demonstrates Varying Character of Schools
  - Queues on existing schools should be based on counts
  - Queues on new schools should be based on similar or close proximity schools.

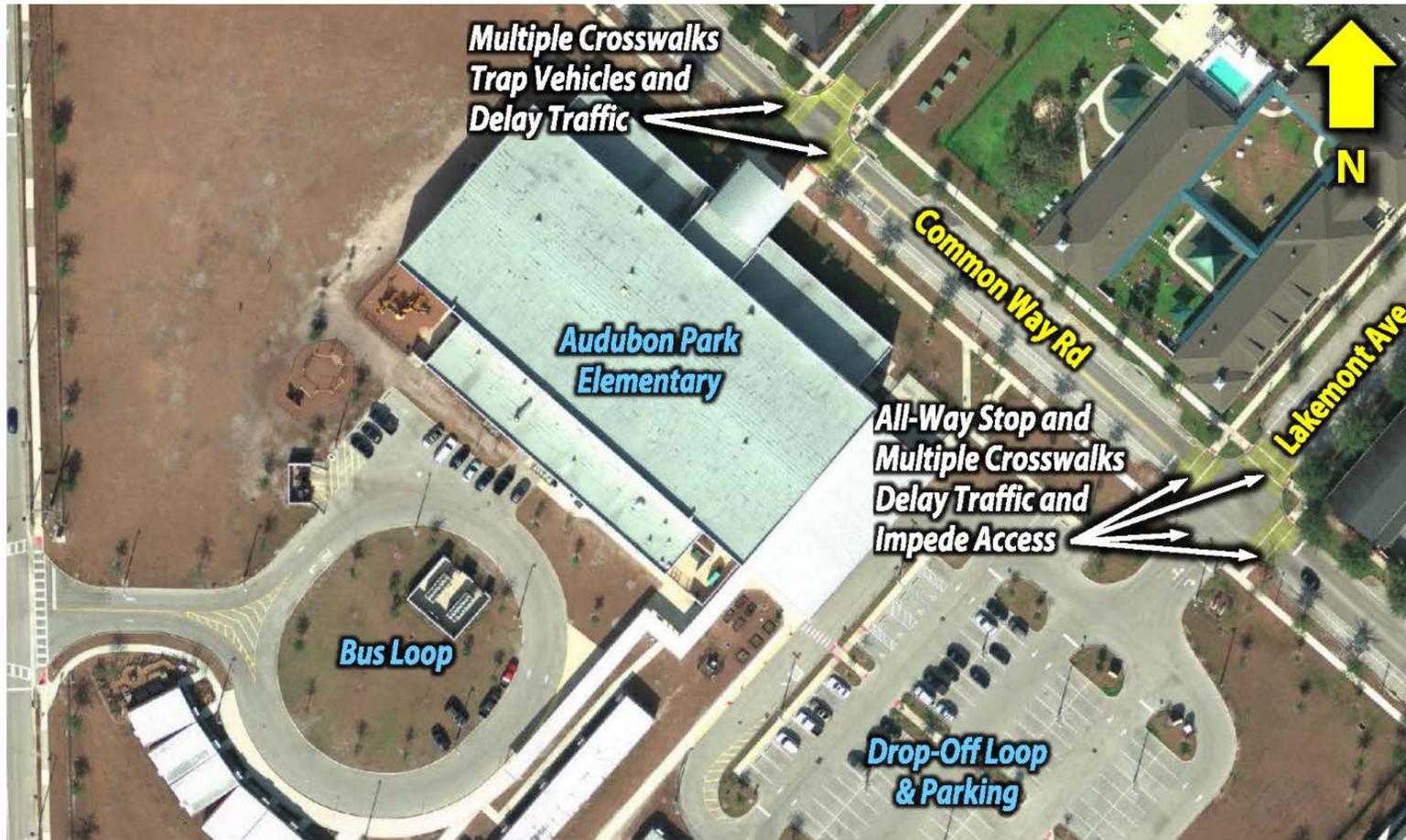
## Issues Observed

- Offsite
  - Roadways without adequate capacity
  - Intersections not adequate (turn lane lengths)
  - Pedestrian access conflicting with traffic
  - Drop-off in neighborhoods
- Onsite
  - Inadequate Stacking (not often)
  - Queue operations (double stacking?)
  - Pedestrian Crossing conflicting with traffic
  - Exit traffic stopped by entrance traffic

# Sample – Avalon ES



# Sample – Audubon ES



# Sample – Dommerich ES

