

PURPOSE & NEED

The purpose of the East Powell Road Project:

To improve current and future mobility on East Powell Road.

The needs of the East Powell Road Project are:

■ Capacity

- 2012 Average Daily Traffic (ADT): 10,000 vehicles per day (vpd).
- 2035 ADT: 17,000 vpd.
 - Capacity of a two-lane road: 14,000 vpd.
- Existing Level of Service (LOS): E & F (both are failing LOS).
- Many of these intersections will be over capacity by 2015.

■ Design Deficiencies

- Horizontal curve immediately east of the I-71 does not meet current design standards.
- Vertical curves between Coldharbor Boulevard and Green Tree Drive do not meet current design standards.
- Cross slopes on curves of existing roadway do not meet current design standards.

■ Safety

- Left turn crashes at the intersections are higher than statewide averages.
- High number of crashes at horizontal curve immediately east of the I-71.

■ Pedestrian/Bicycle Facilities

- Currently no pedestrian or bicycle facilities on East Powell Road.
- Orange Township has identified a future trail along East Powell Rd.

The project goals are as follows:

- Provide sufficient capacity to accommodate future traffic
- Improve safety by designing new road to current design standards
- Furnish a pedestrian and bicycle path
- Minimize the amount of private property needed for the project