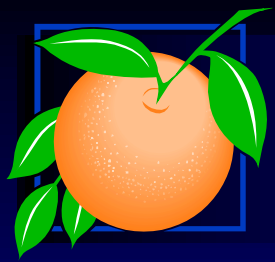




ROADWAY LIGHTING PROGRAM

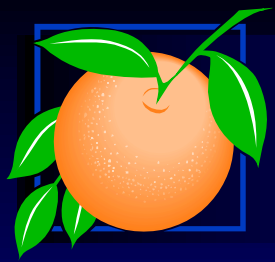
Public Works Department

February 6, 2018



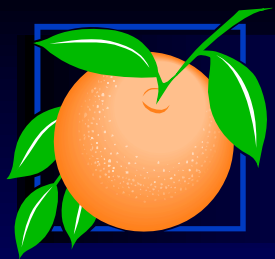
Presentation Outline

- **Background**
- **Standards**
- **Current Roadway Lighting Program**
- **Future Lighting Needs**
- **Summary**



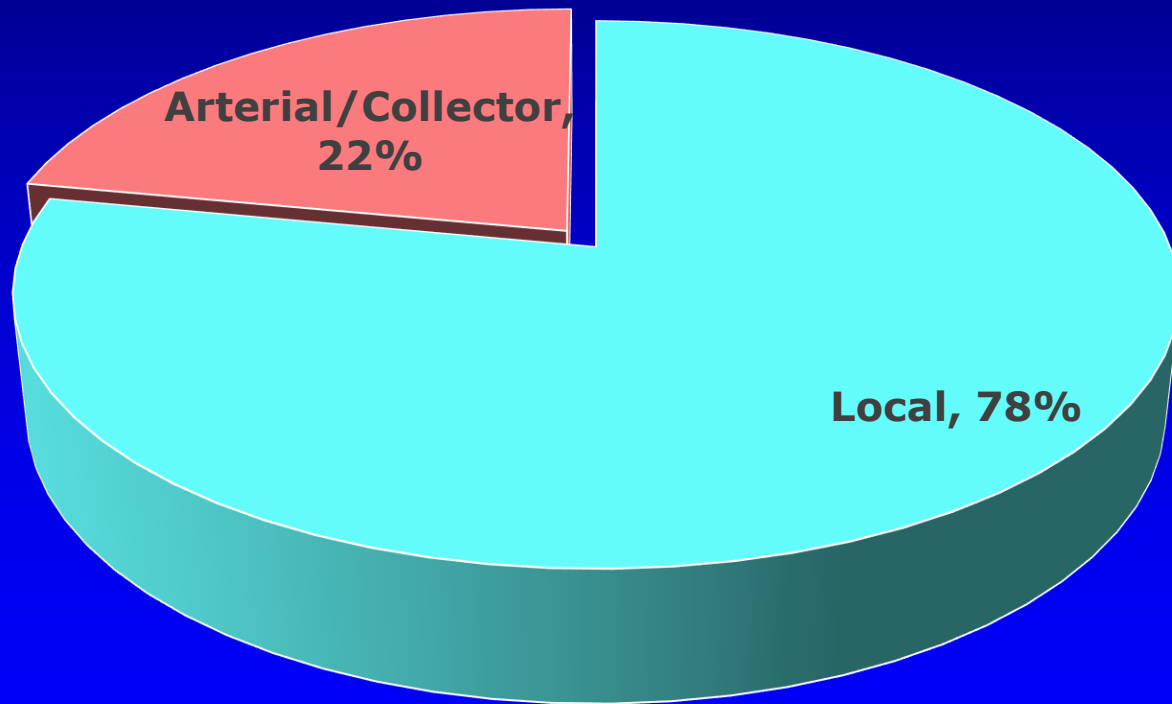
Presentation Outline

- **Background**
- **Standards**
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- **Future Lighting Needs**
- **Summary**

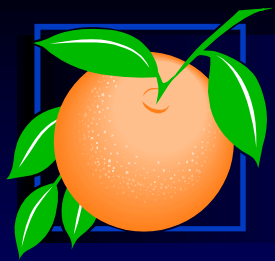


Background

County Roads

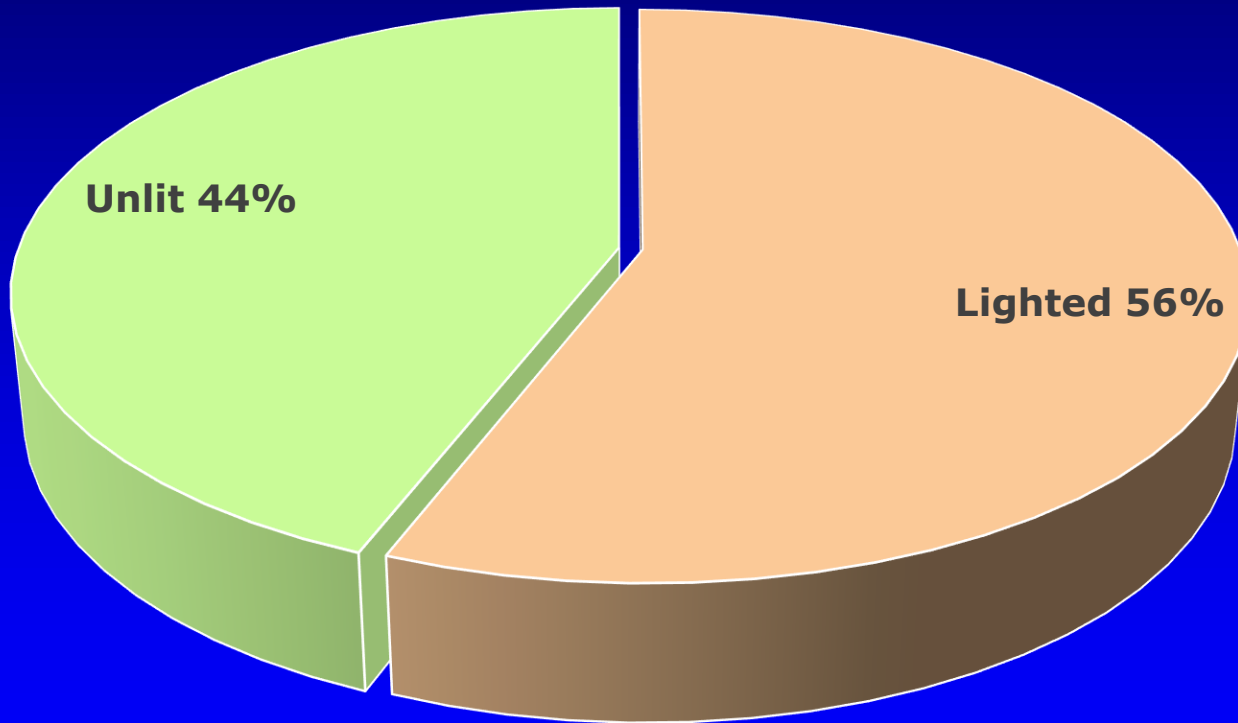


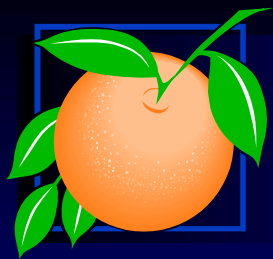
2600 miles



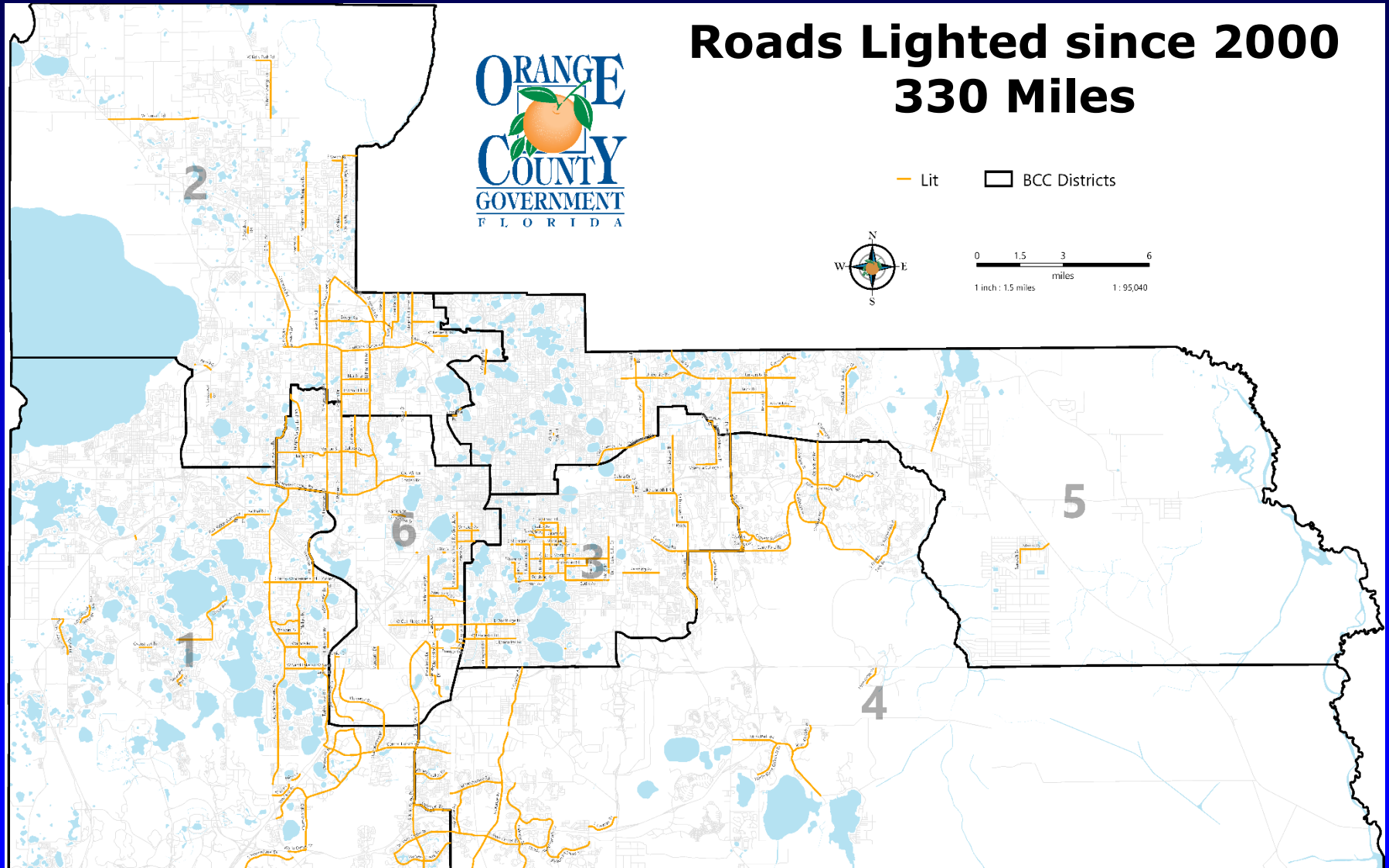
Background

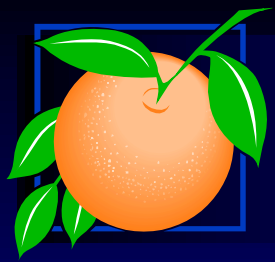
Arterial/Collector Roads





Background



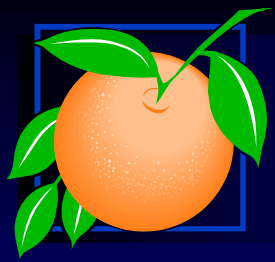


Background

Benefits

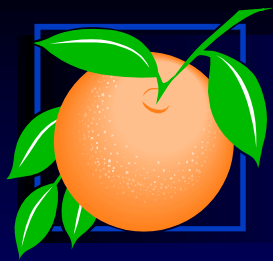
- **Neighborhood Safety**
- **Community Spirit**
- **Accident Reduction**





Presentation Outline

- Background
- **Standards**
- Current Roadway Lighting Program
- Next Steps



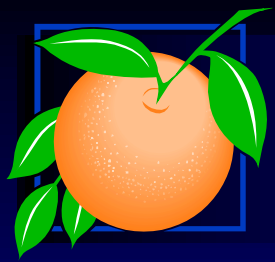
Standards

- **Duke Energy**



- **Orlando Utilities Commission (OUC)**

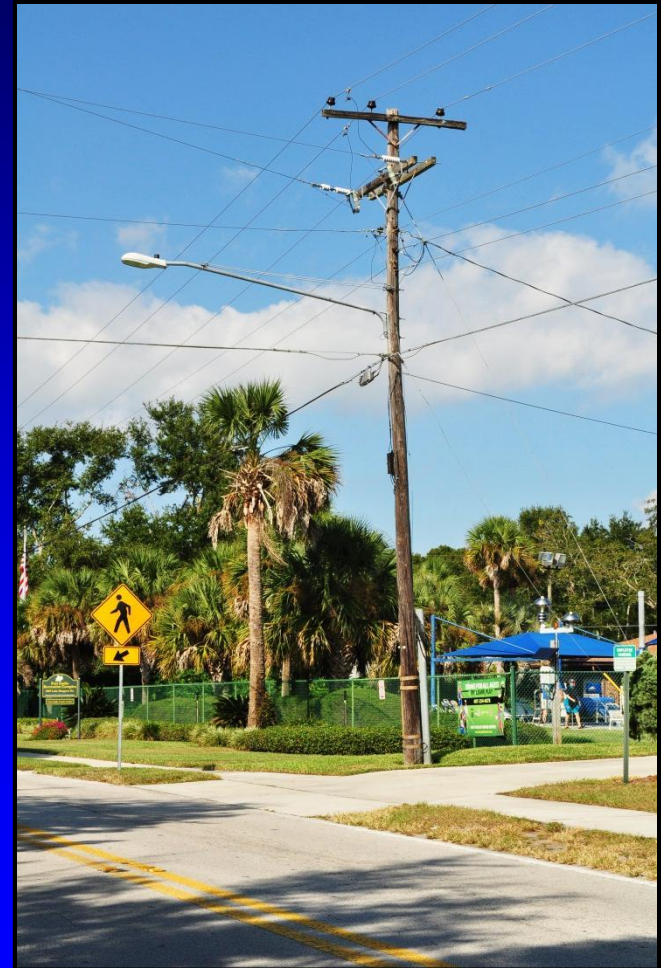


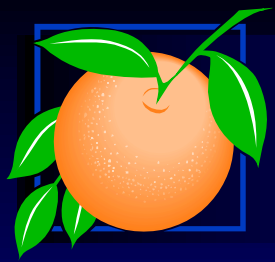


Standards

Light Poles

- Existing Wood Poles
- Concrete Poles
- Aluminum Poles

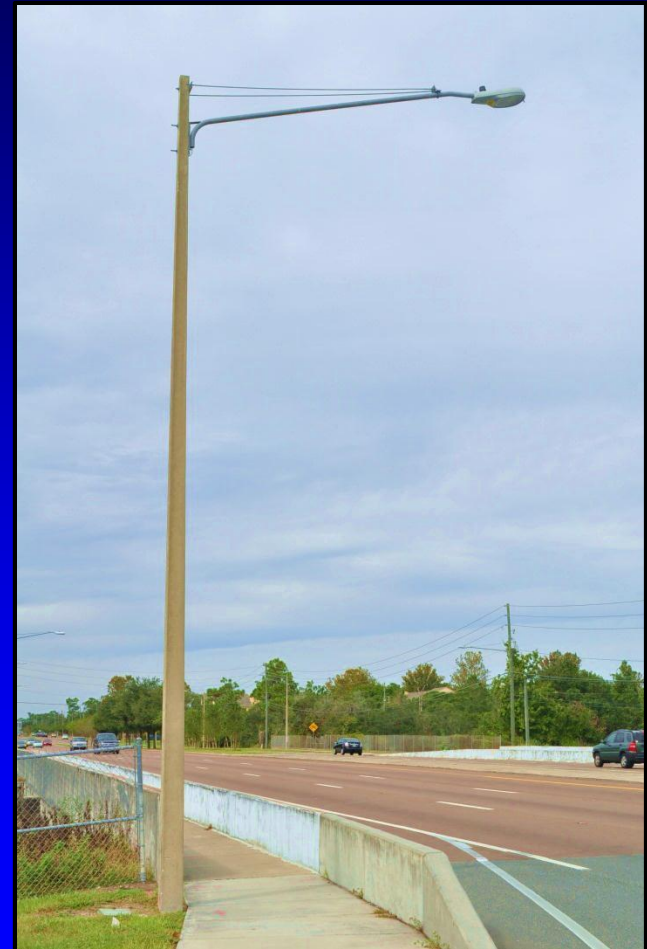


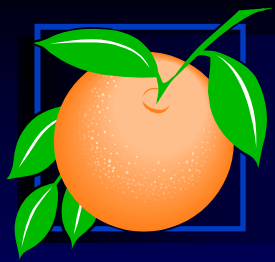


Standards

Light Poles

- Existing Wood Poles
- Concrete Poles
- Aluminum Poles



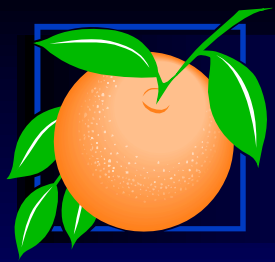


Standards

Light Poles

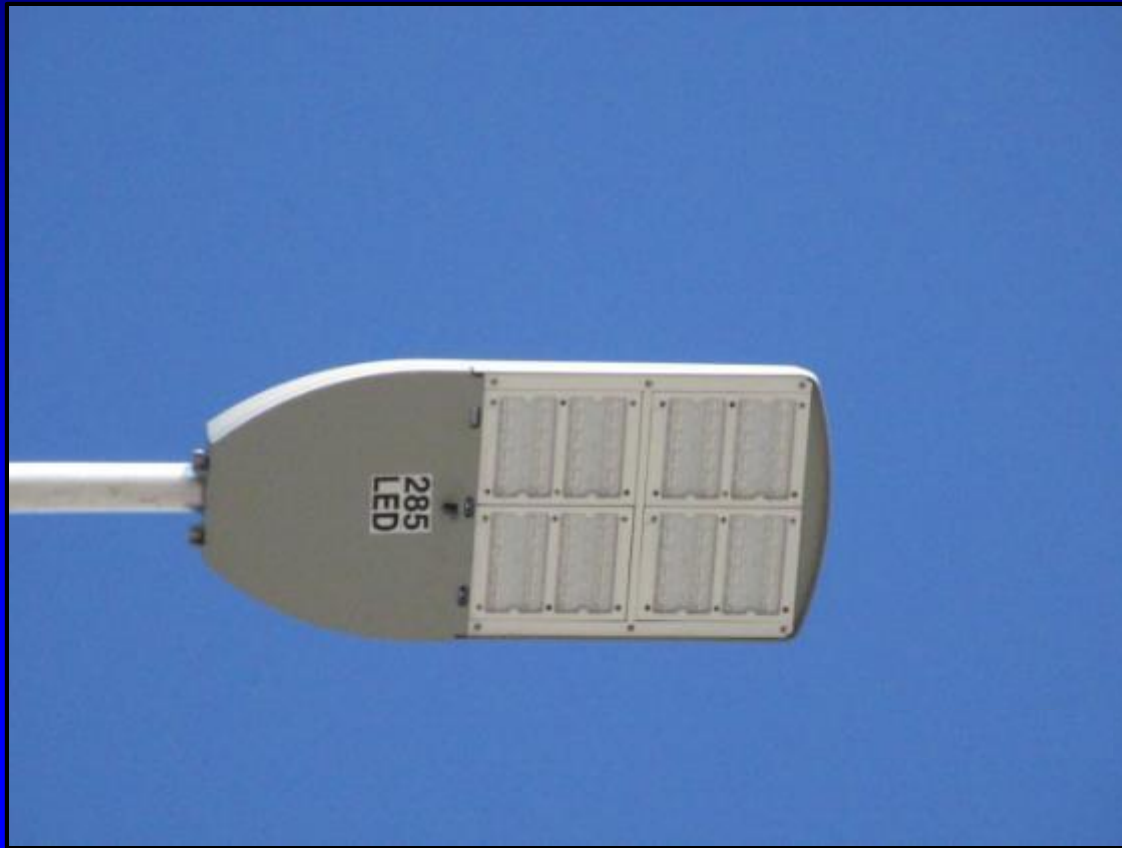
- Existing Wood Poles
- Concrete Poles
- Aluminum Poles

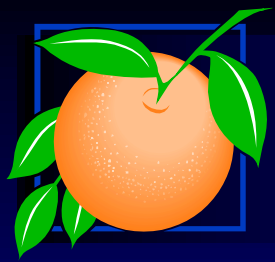




Standards

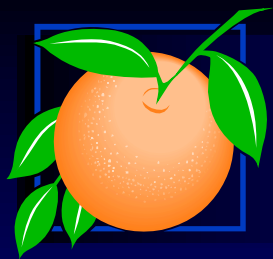
LED Light Fixtures





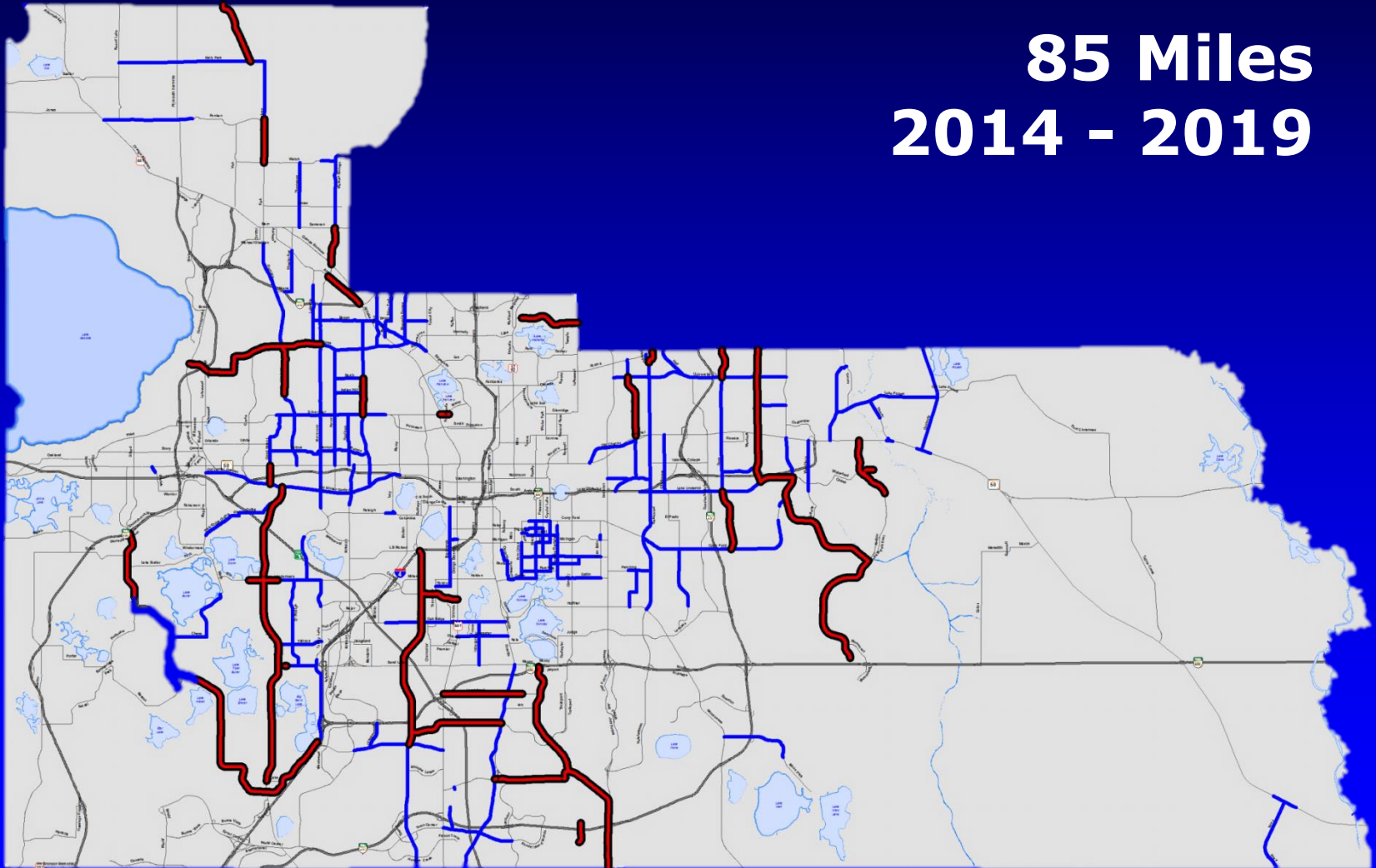
Presentation Outline

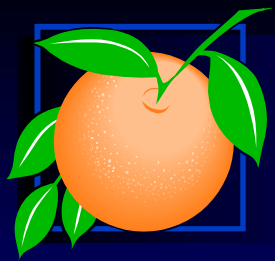
- Background
- Standards
- **Current Roadway Lighting Program**
- Future Lighting Needs
- Summary



Current Program

**85 Miles
2014 - 2019**

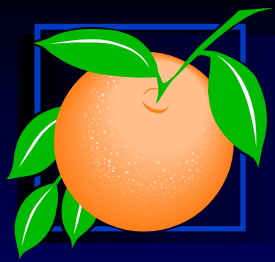




Current Program

Roadway Lighting Evaluation Criteria

- **Continuity of roadway lights**
- **Number of night time accidents**
- **Crime rate**
- **Activity centers - bus routes, churches & schools**
- **Speed limit and traffic volumes**

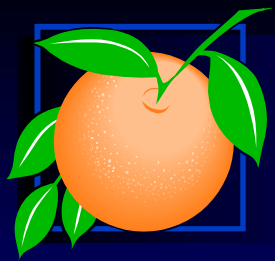


Current Program

Status

- **30 of 85 miles have been lighted**
- **9 miles are under construction or pending construction**
- **46 miles under design or remaining to be designed**

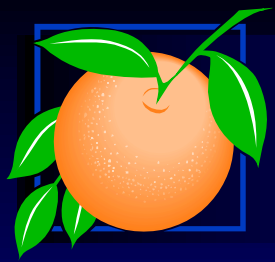




Current Program

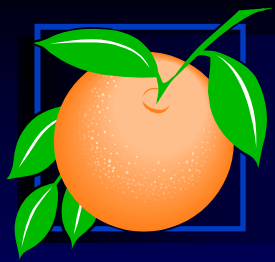
Challenges

- **County relies on utility companies for schedule and costs**
- **Utility companies complete the design and construction**



Presentation Outline

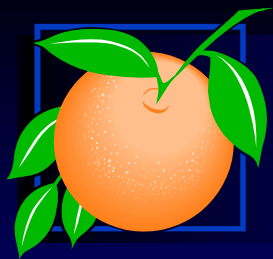
- Background
- Standards
- Current Roadway Lighting Program
- **Future Lighting Needs**
- Summary



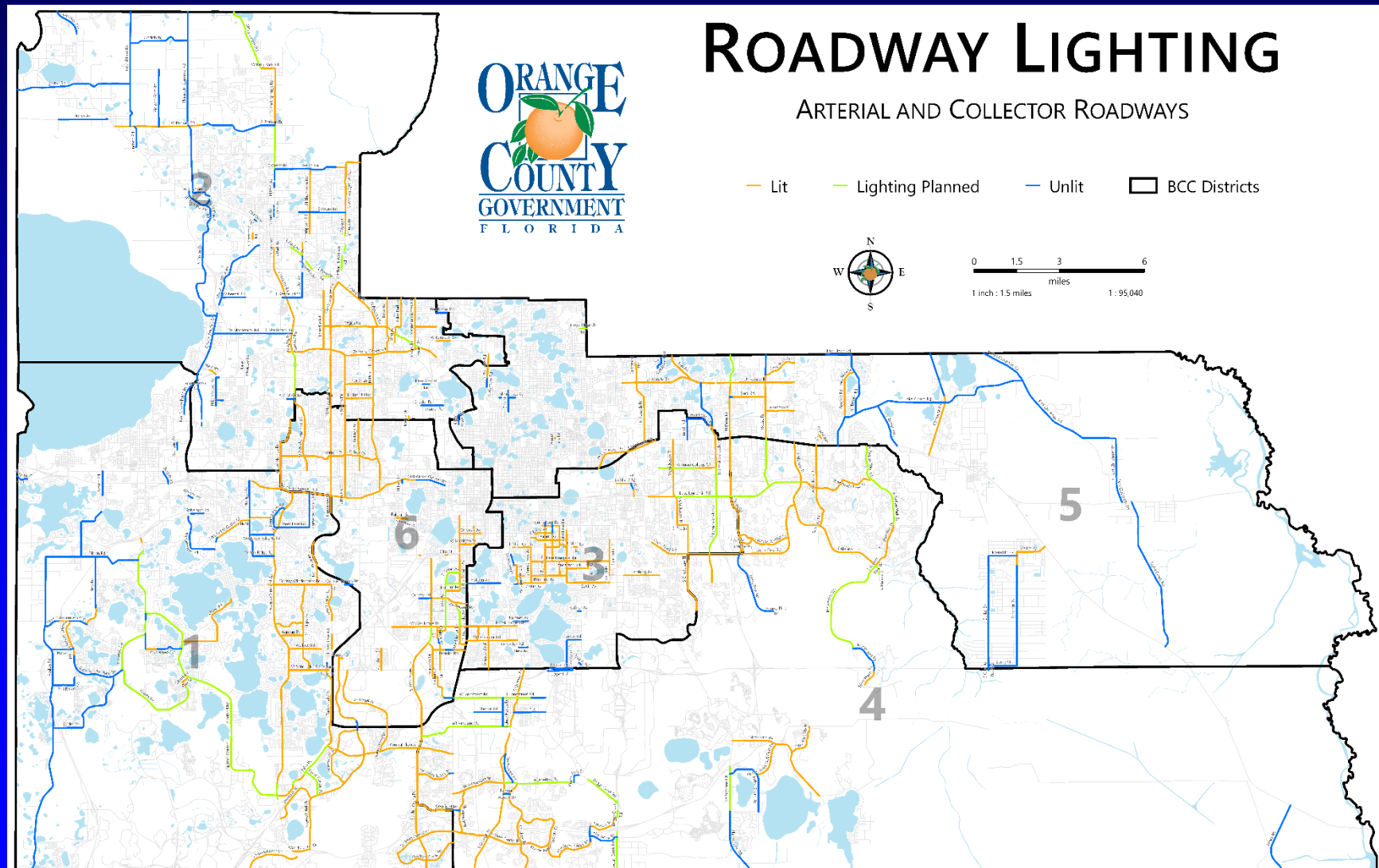
Future Lighting Needs

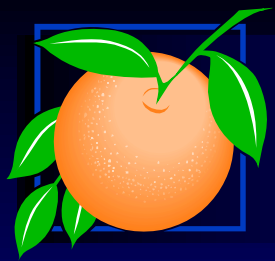
- **166 miles of unlit county collector and arterial roads**
 - 155 miles of 2 lane roads
 - 11 miles of 4 & 6 lanes
- **24 additional miles are planned with future CIP widening projects**





Future Lighting Needs

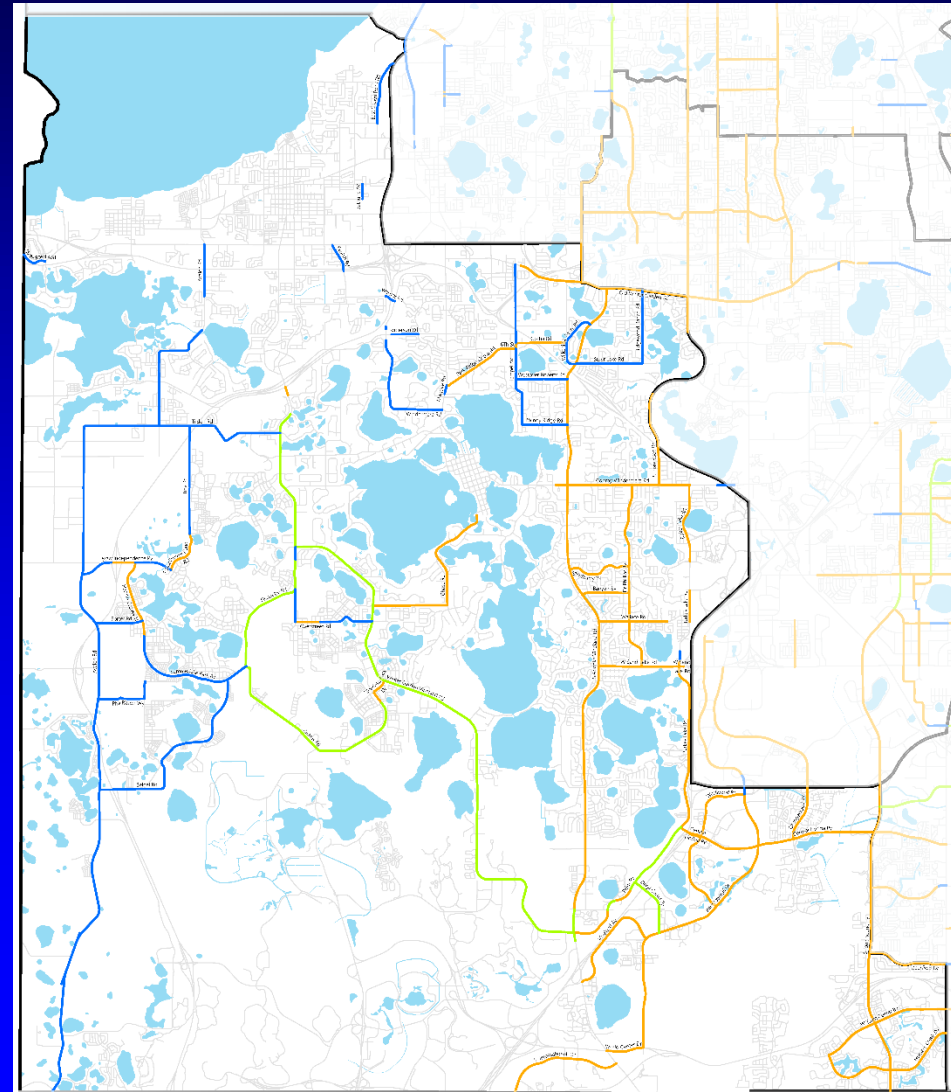




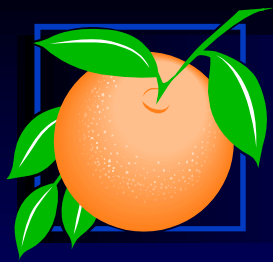
Future Lighting Needs

District 1

44 Miles Unlit



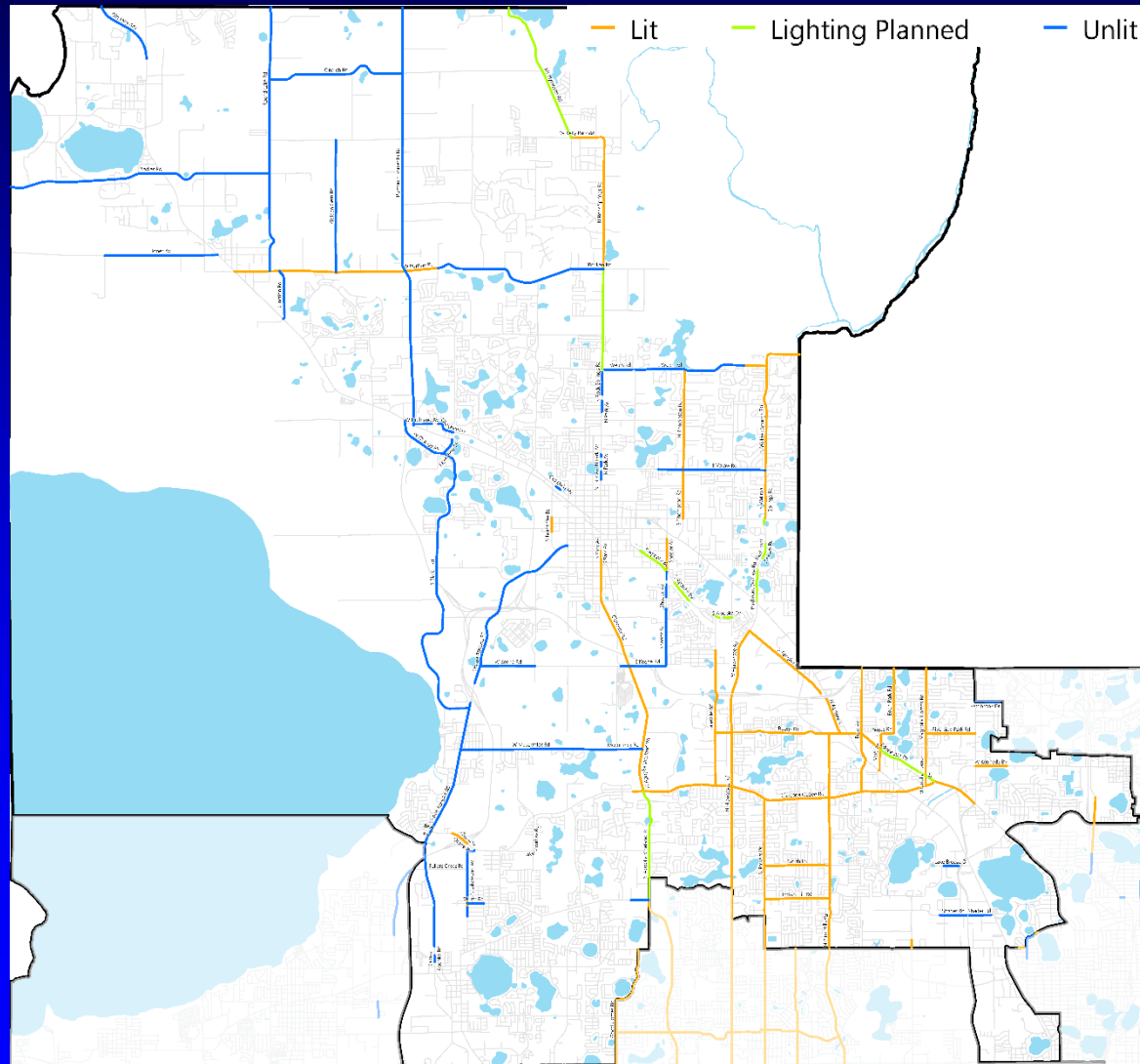
— Lit — Lighting Planned — Unlit

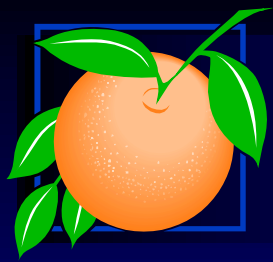


Future Lighting Needs

District 2

52 Miles Unlit

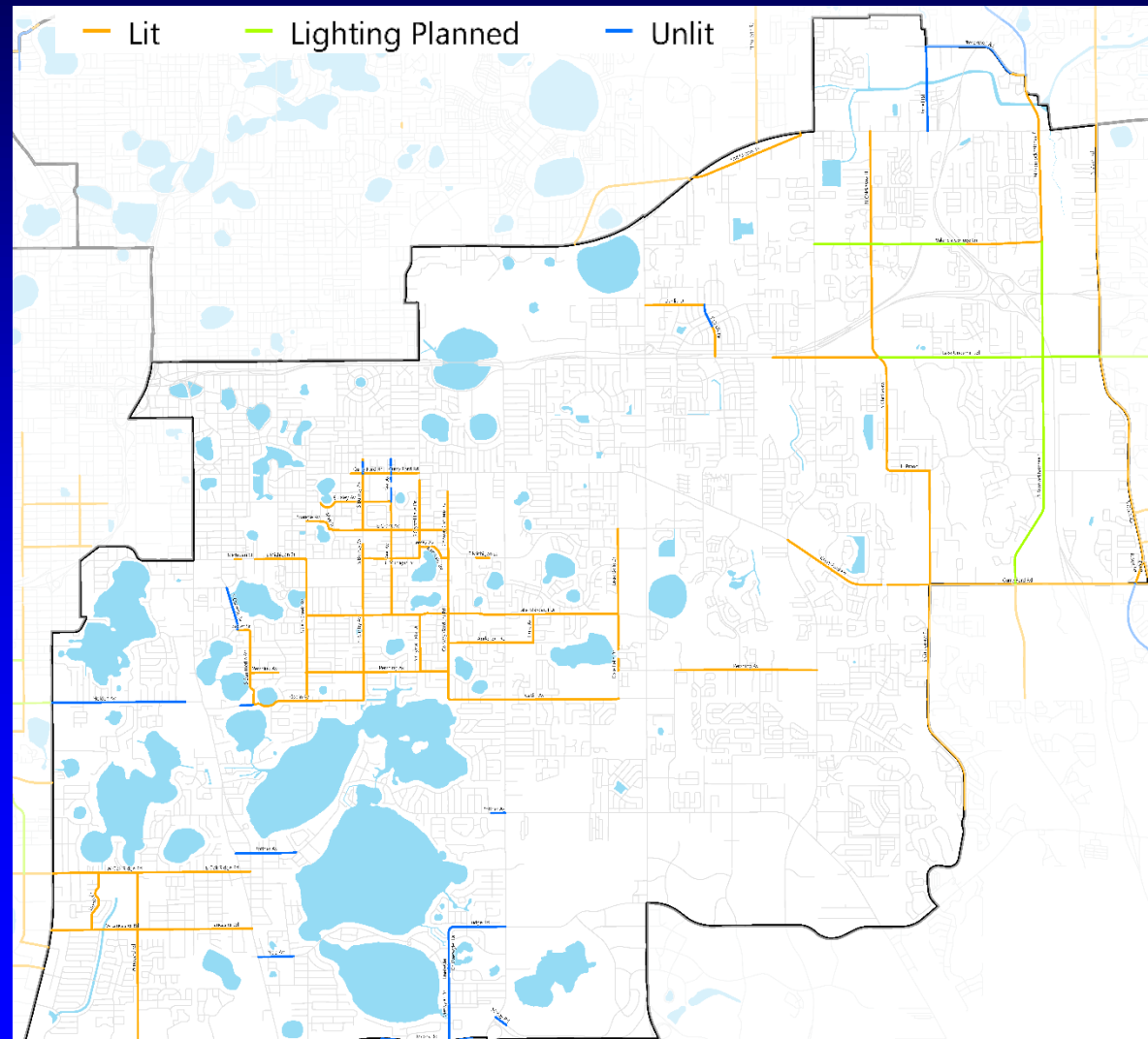


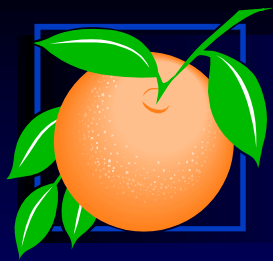


Future Lighting Needs

District 3

7 Miles Unlit

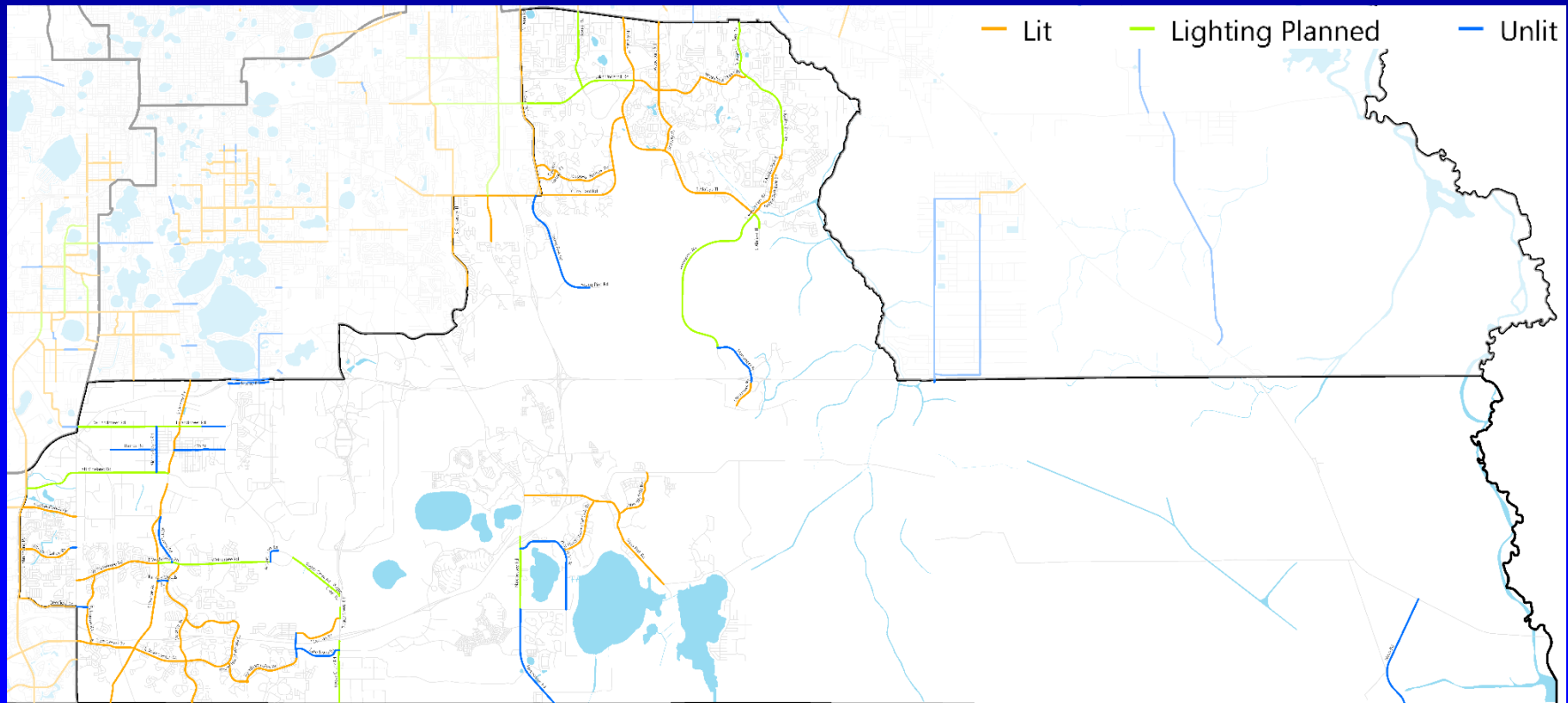


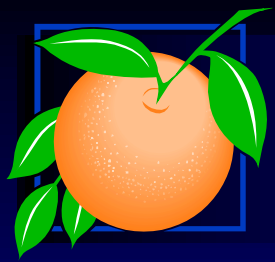


Future Lighting Needs

District 4

17 Miles Unlit

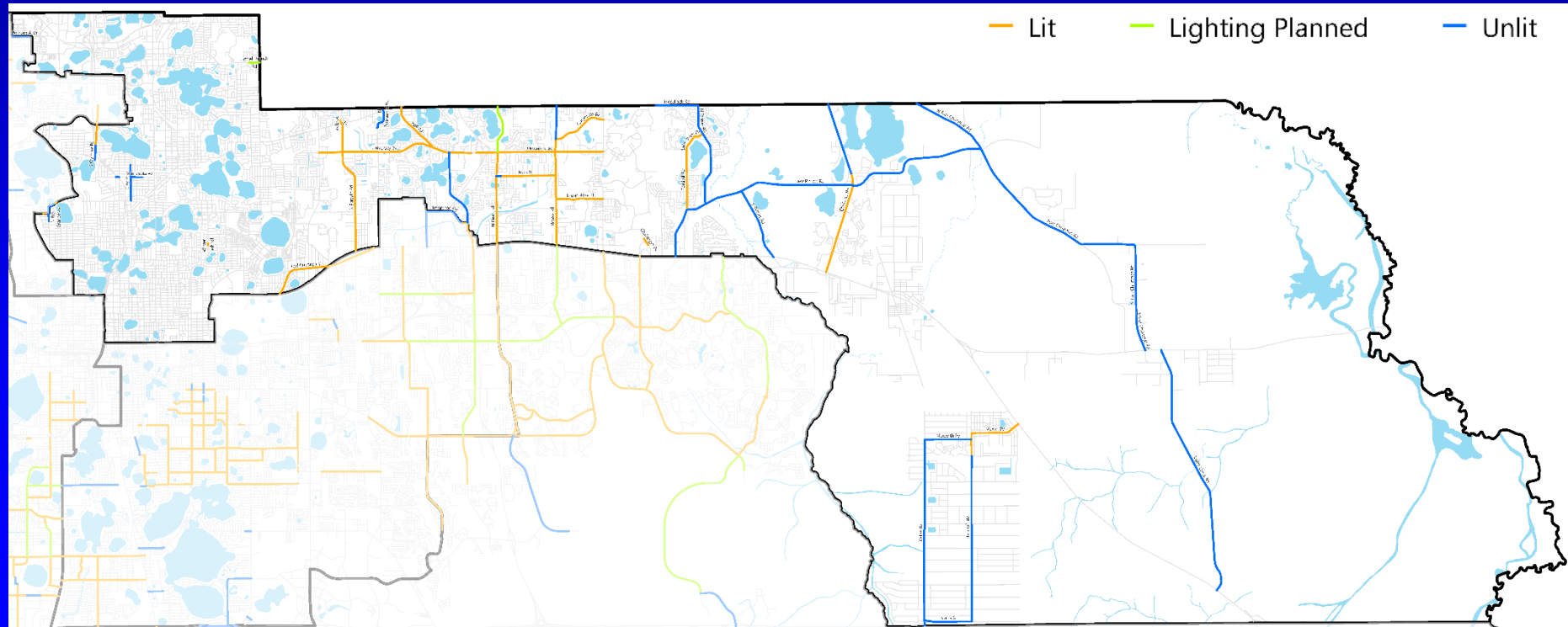


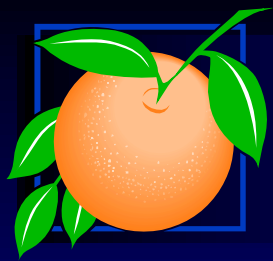


Future Lighting Needs

District 5

43 Miles Unlit



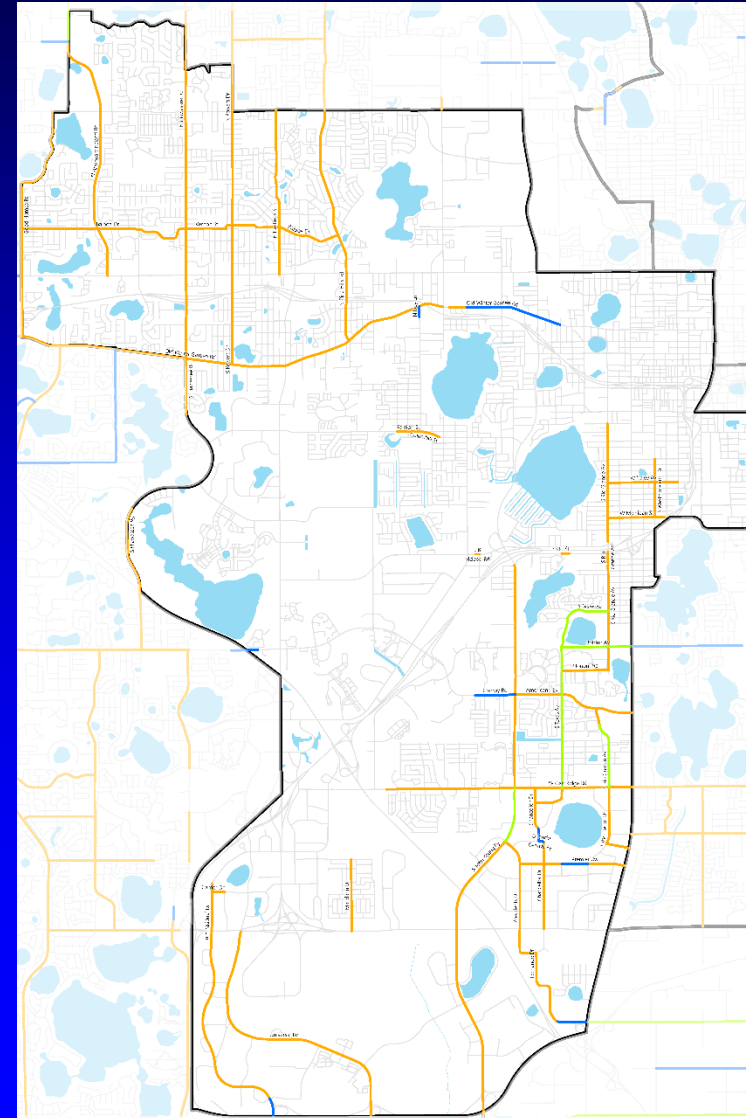


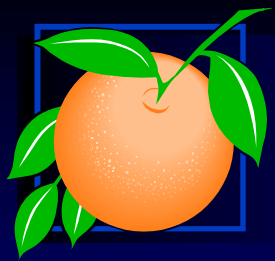
Future Lighting Needs

District 6

3 Miles Unlit

— Lit — Lighting Planned — Unlit

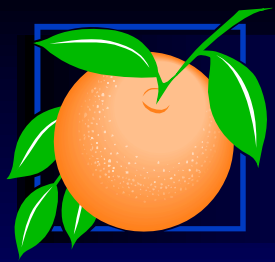




Future Lighting Needs

Roadway Lighting Evaluation Criteria

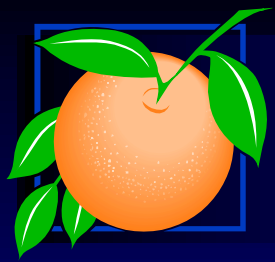
- **Continuity of roadway lights**
- **Number of night time accidents**
- **Activity centers, such as, bus routes, churches & schools**
- **Speed limit and traffic volumes**



Future Lighting Needs

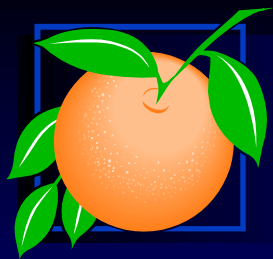
Next Steps

- **Review roadways and rankings based on criteria**
- **Develop program for 166 miles of collector and arterial roads**
- **\$16M program**
 - **\$2M per year for 8 years**
 - **Average 21 miles per year**
- **\$1.7M Annual Maintenance**



Presentation Outline

- Background
- Standards
- Current Roadway Lighting Program
- Future Lighting Needs
- **Summary**



Summary

- **2000-2014 – 303 Miles Lighted**
- **2014 Program – 85 Miles**
- **Future Needs - 166 Miles**



ROADWAY LIGHTING PROGRAM

Public Works Department

February 6, 2018