TELFORD ROAD
SAFETY IMPROVEMENTS

Brandon Baxter, P.E., PTOE
Ragan-Smith Associates, Inc.

2015 TSITE Spring Meeting
Kingsport, Tennessee
May 21, 2015

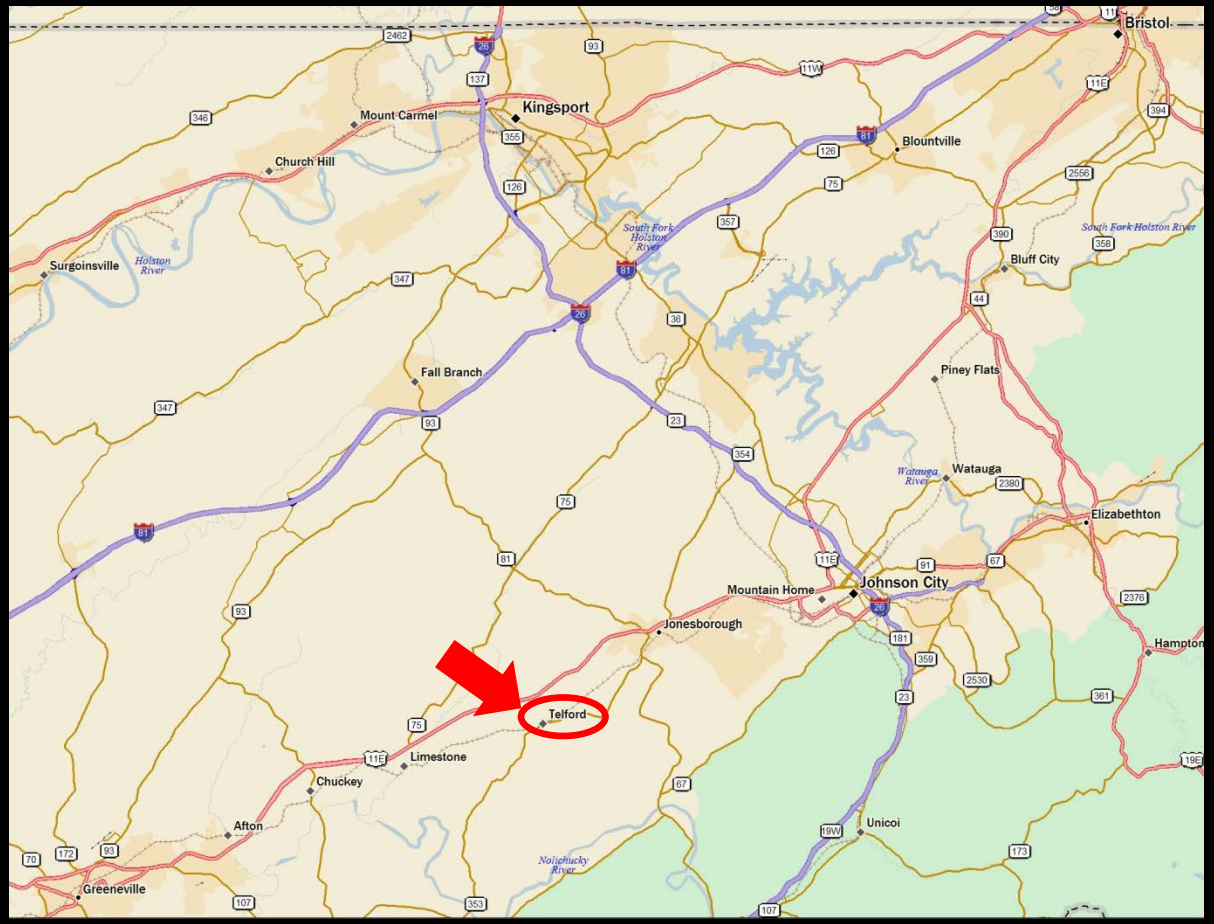
RAGAN SMITH

Project Summary

- Identified Through TDOT Safety Needs Planning Process
- Road Safety Audit
  - Started in 2010
  - Completed in 2011
- Included in August 2014 Bid Letting
- Currently Under Construction

RAGAN SMITH

Project Location



RAGAN SMITH

Project Location

RAGAN SMITH

Crash Data Summary

- Project Qualified for Hazard Elimination Safety Program (HESP) Funds
- 3-Years of Crash Data:
  - 2003 – 2005 for South Portion of Project
  - 2005 – 2007 for North Portion of Project
- Telford Road Crash Rate:
  - 26.703 crashes/million veh-mi of travel
  - Over 10 times greater than statewide average

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Observations

RAGAN SMITH

Project Recommendations and Current Status

- Recommended Improvements Included:
  - Sign Update/Replacement to MUTCD Standards
  - Application of Skid Resistant Pavement Surface
  - Correction of Superelevation/Slope in Select Areas
  - Realignment to Mitigate Geometric Deficiencies
- Included in August 2014 Bid Letting
  - Total Bid was $1,947,914.90
- Currently Under Construction

RAGAN SMITH

Before

RAGAN SMITH

After

RAGAN SMITH

Before

RAGAN SMITH

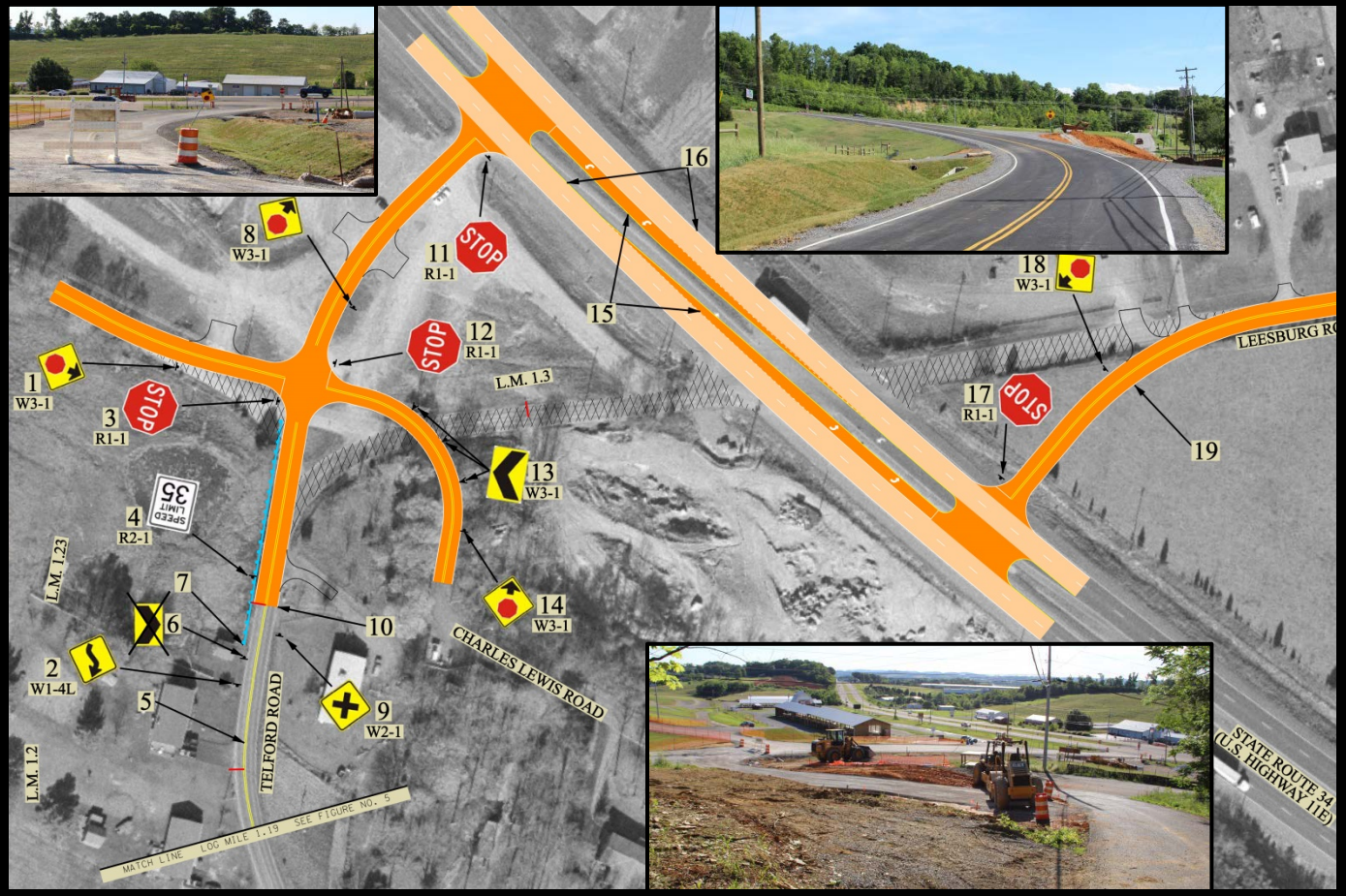
After

RAGAN SMITH

Before

RAGAN SMITH

After



RAGAN SMITH

Before

RAGAN SMITH

After

RAGAN SMITH

Local Feedback

- *"This project is a great improvement for Washington County."*
- *"Another positive from this project is a [new] business is [going] to locate on the Telford side [of Highway 11E]."*
- *"This project will better insure the safety of the traveling public and the community of Telford for a very long time."*

RAGAN SMITH

Questions?

RAGAN • SMITH