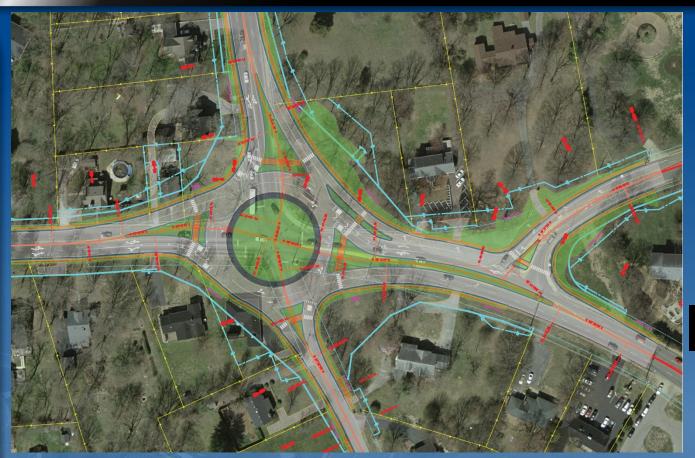
Development of Bowling Green's First Roundabout





BURGESS & NIPLE
Engineers ■ Surveyors ■ Planners

Greg Meredith P.E., *District 3 Chief District Engineer*Arrell Thompson P.E., *Burgess & Niple*Joe Plunk, P.E., *District 3 Project Development Branch Mgr*

Sept. 9, 2014

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Outline

- 1. Existing Conditions
- 2. Pre-design Project History
- 3. Benefits of Roundabouts
- 4. Development of Design Project
- Getting the Project to Letting



Benefits of Roundabouts

- 1. Conflict points are reduced
- 2. Geometrics encourage speed reduction
- 3. Lower operating speeds reduce crash severity
- 4. Continuous flow reduces delay
- Reduced fuel consumption (noise & air quality impacts)
- 6. Operation/maintenance costs can be less than signalized

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Project Purpose & Need

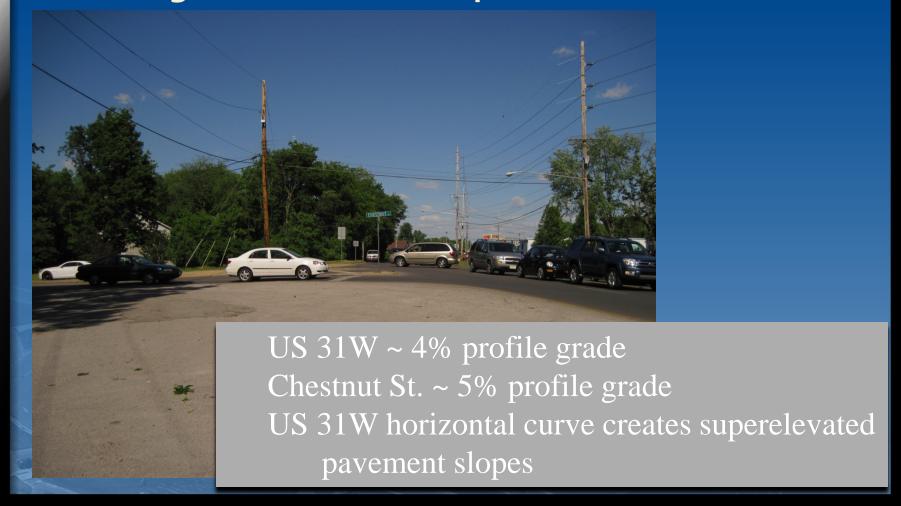
The purpose of this project is to improve safety and mobility for motorists, bicyclists, and pedestrians along US 31W through the intersections with University Boulevard/Loving Way and with Chestnut Street.





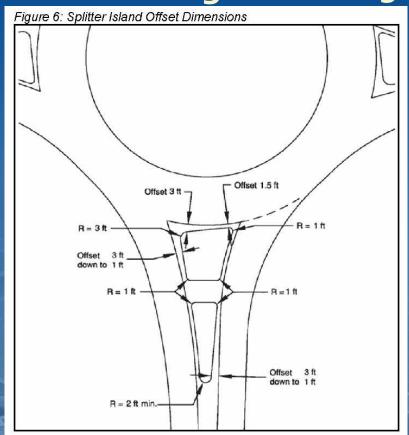


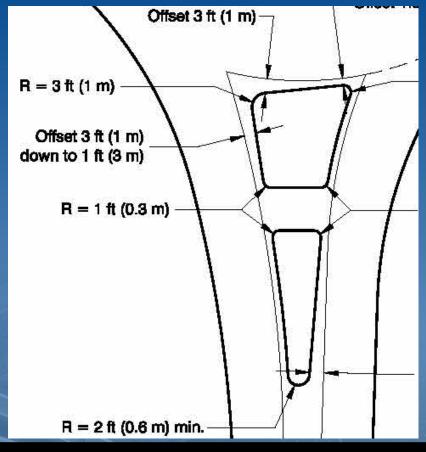
2. Profile grade and cross slopes into intersection





3. Designing and Building the Roundabout to KYTC Design Memo 03-10







4. Keeping Utilities Out of Sight Triangles



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Roundabout Construction



Roundabout Construction



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Utility Coordination

- •KYTC acquired utility easements
- •KYTC paid 100% for private if dates met



- •7 utilities
- •BGMU 69 kV trans. line
- AT&T duct bank