Nixon / Green / Dhu Varren:
Roundabout Design Update

July 13, 2016
Design Features

**Road or Bike Lane**

**Sidewalk or Shared Path**

**Colored Pavement (Splitter Island)**
Topics

- Goals
- Design Features
- Next steps
Goals

- **Safety** for all users
- **Efficient** traffic flow
- **Minimize** impacts

... a balancing act
Design Features

Previous Meeting... 3 Versions
Design Features

Previous Meeting...
3 Versions

Advancing Communities™
Design Features

Option 3: 120' Diameter Circular Roundabout with DHU Varren Centered

Previous Meeting... 3 Versions

Advancing Communities™
Design Features

Version #2

DHU VARREN ROAD

ALTERNATE PATHWAY ALIGNMENT TO MINIMIZE WETLAND IMPACTS

PROPOSED DHU VARREN ROAD SHIFTED SOUTH FROM CURRENT ROAD ALIGNMENT:
- SOUTH WETLAND IMPACTED ONLY
- EXTENDED CONSTRUCTION LIMITS
Design Features

- Re-align Dhu Varren
- “Amp up” safety everywhere
- Lower vehicle speeds
Dhu Varren alignment:
- Line up Dhu Varren and Green
- Dhu Varren: 20 feet from the pond
Design Features

Speed Reduction:
- “Distant” speed reduction curves
- Long splitter islands (150 – 240 feet)
- Narrow “tunnel” effect
Design Features

Speed Reduction:

- Entry to Exit

- Consistent speeds = efficient flow

- Approx. 15 – 20 mph
Design Features

Pedestrians:

- 13 – 15 feet crossing length
- One direction at a time
- Visibility
Design Features

Pedestrians:

- 8 – 10 feet wide
- Lighting, signing, and marking
- ADA compliant
Design Features

Bicycles:

- 5 feet wide on-street bike lane
- Ramp entrance and exits
- 10 feet wide shared-use path
Design Features

Busses:

- 3 stops
- TBD… meet with AATA
- Traffic flow and convenience
Design Features

Environmental:
- Minimize wetland impacts
- Dhu Varren – north
- Nixon – west
- Burr oak tree
Design Features

Environmental:
- Ongoing effort...
- Wetland mitigation
- Stormwater design
Next steps

- Stormwater Design and Permitting
- AATA Bus Stops
- Bicycle and Sidewalk
- Utilities and Streetlights
- Construction Staging