Oakwood Hills
Pedestrian Access Project

Kevin Breisch
Benjamin Holderman

Fourteenth Annual School of Science, Engineering, and Health Symposium
April 28, 2017
Our Mission

• To provide safe and efficient pedestrian access from Messiah College to the future Oakwood Hills Development
Crossing W. Lisburn Road
Alternate Solutions Analysis

• Safety
• Cost
• Build Time
• Practicability
Final Alternative Solutions

- Pedestrian Crosswalk
- Pedestrian Bridge
- Pedestrian Tunnel
Final Alternative Solutions

• Upper Allen Township Park Connectivity Plan
Final Alternative Solutions

- Upper Allen Township Park Connectivity Plan
Final Alternative Solutions

• Crosswalk and stream bridge
• Bridge
• Tunnel
Grantham Road Sidewalk
Design Standards

• Sidewalk Criteria
  – Dimensions
  – Concrete Type

• Sidewalk Lighting
  – Type of Fixture
  – Estimated Light Spacing
Survey Information and Utilities
What’s Next

• Oakwood Hills
  – Bridge and Tunnel Research

• Grantham Road
  – Preliminary Sidewalk Designs
Acknowledgments

Project Advisers
  Bryan Hoover
  Dr. Brian Swartz

Student Volunteers
  Kevin Breisch
  Benjamin Holderman
  Ales Issis
  Caleb Stevens
  Justin Witter
Acknowledgments

**Project Partners**
Rider Musser Development, LLC
Messiah College

**Additional Support**
H. Edward Black & Associates, Ltd.
Chris Bauer, M*cMahon
Ronald Powell, Century Engineering
Thomas Bass, CCJM
Questions?