Taking it to the Streets: The Sunset Avenue Complete Street Reconstruction Project

Presented by:
Rich Michal, PE, MBA, M Arch, LEED-AP, Executive Director of Facilities-Butler University
John Hazlett, LEED AP O+M Team Leader: Integrated Planning-Williams Creek Consulting
Butler University

• Founded in 1855
• 295 acre campus
• Located 5 miles north of downtown Indianapolis
• 60 major academic fields and 19 graduate programs
• Current enrollment: ~5,000 students
Existing Campus Green Infrastructure

- Porous Pavement – West Parking
- Rain Garden – Schrott Center
- Rain Garden – Clowes Hall
Sunset Avenue - Existing Conditions
City of Indianapolis-Complete Streets Policy

<table>
<thead>
<tr>
<th>City’s Policy Element</th>
<th>Butler’s Project Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support integrated multimodal transportation</td>
<td>Accommodate future public transportation</td>
</tr>
<tr>
<td>Promote pedestrian safety</td>
<td>Traffic calming and connectivity</td>
</tr>
<tr>
<td>Accommodate bicyclists</td>
<td>Enhance bike safety</td>
</tr>
</tbody>
</table>

Sec 431-803 (c): “The City shall foster partnerships with neighboring communities, businesses and school districts to develop facilities that further the City’s Complete Streets Policy”

City of Indianapolis $1.5M + Butler University $1.5M = $3M Streetscape Project
Complete Street Principles and Project Goals

- Mass transit, bikes, safety & connectivity
- New Streetlight Standard

- Wayfinding and branding
- Define campus edge
- Aesthetics
Sunset Avenue Streetscape Project
Sunset Avenue-Streetscape Retrofit
Sunset Avenue: Porous Pavement & Subsurface Storage

• 5,500 sf Permeable Bike Lane
• Captures Runoff from West Side of Sunset Avenue
• Curb Turnouts & Subsurface Hydraulic Connection Divert Runoff to Rain Gardens
Sunset Avenue-Linear Rain Gardens

- Native Plant Material
- Species Selection:
  - Inundation and Salt Tolerance
  - Limited Diversity
  - Showy Species vs. Wild & Wooly
Sunset Avenue-Hinkle Fieldhouse Parking
Sunset Avenue-Hinkle Rain Gardens
Sunset Avenue-Permeable Bus Turnout

- Captures Hinkle Fieldhouse Runoff

- Permeable Pavers – 5,000 sf
  - Incorporated into Median Design Campus Standard Paver
  - Use on other GI Projects Throughout Campus
Bus Turnout
Sunset Avenue – Stormwater Modeling Results
Lessons Learned

- In house maintenance requirements
- Construction site stabilization
- Utilization of Public Private Partnership model
- Flexibility during design (new garage)
- Neighborhood outreach
And After!
Questions?

Rich Michal
Executive Director of Facilities
Butler University
rmichal@butler.edu

John Hazlett
Team Leader-Integrated Planning,
Williams Creek Consulting
jhazlett@williamscreek.net
317.430.2154