BROWARD COUNTY
BOARD OF COUNTY COMMISSIONERS

DESIGN SERVICES FOR WILES ROAD
FROM UNIVERSITY DRIVE TO RIVERSIDE DRIVE

MAY 12, 2017

Presented by:
The Keith & Schnars Team
Members in Attendance

**PRINCIPAL-IN-CHARGE**
- Errol Kalayci (K&S)

**PROJECT MANAGER**
- C. Bryan Wilson, P.E. (K&S)

**ROADWAY**
- Mark Kline, P.E., (K&S)

**DRAINAGE**
- Shahin Shafiq, P.E., PTOE, PMP (K&S)

**Signing, Marking, Signals**
- Eva Campello, P.E., (CTS)
Ability of Professional Personnel

ORGANIZATIONAL CHART

PROJECT MANAGER
C. Bryan Wilson, P.E.
Project Manager
31 Years

QA/QC
Xavier Arroyo, P.E.
QA/QC
19 Years

PROJECT PRINCIPAL
Mark J. Moshier, P.E.
Project Principal
29 Years

ORGANIZATIONAL CHART

DRAINAGE DESIGN
Isabel Nayak, P.E.*
Drainage Task Manager
23 Years

HIGHWAY DESIGN
S. Mark Kline, P.E.*
Highway Task Manager
34 Years
Matt Neidoff, P.E.
Lead Designer
12 Years
Nata Adjai, E.I.
Highway Designer
3 Years

SIGNING AND MARKING
Steve Hughes, P.E.*
Task Manager
15 Years
Eva Campello, P.E.
Lead Designer
8 Years

GEOTECH
Partha Ghosh, P.E.*
Geotech Manager
24 Years
Zhijun Pan, P.E.
Lead Geotech
10 Years

LANDSCAPE ARCHITECTURE
Todd Mohler, RLA, ISA, ARSCA**
Landscape Task Manager
20 Years
Chris Miller, RLA, ISA LEED AP, LIA, FNGLA
Landscape Architect
22 Years
Kirk Hoosac, RLA
Landscape Architect
11 Years

LIGHTING DESIGN
Fabricio Savio, P.E.*
Lighting Task Manager
14 Years
Charles Newberry, E.I.
Lighting Designer
13 Years

SURVEY
Robert K. Krisak, P.L.S.*
Survey Task Manager
38 Years
Benjamin Hoyloe, P.S.M.
Lead Surveyor
16 Years

* Task Manager
** XX Years of Experience
Project Approach

ROADWAY DESIGN

Design Criteria:
- County Incentive Grant Program (CIGP) through FDOT
- Broward County Engineering Minimum Standards
- Florida Green Book
- FDOT Specifications
- FDOT Standards
- FDOT Design Manual (at University Drive Intersection)

Design Speed = 45 MPH    Posted Speed = 45 MPH

2 - 12ft lanes, 22ft Curbed Median, 8ft grass shoulders, 6ft sidewalks
ROADWAY DESIGN

Typical Section:
• Typically 110ft Right of Way (Min.), 144ft at University Dr., 132ft at Riverside
• 16’ Median Proposed (to accommodate bike lane)
• 38’ Roadway Section
Design Services for Wiles Road from University Drive to Riverside Drive

PAVEMENT DESIGN

Existing:
- ¾” Type I
- 1 ½” Type S-I
- 12” Limerock (LBR 100)
- 12 Stabilized Subgrade (LBR 40)

Existing SN = 3.67
Required Minimum S_n = 3.84

Proposed: Resurf.
- Mill ¾” (Avg.)
- 1” CF-9.5 Friction Course
- ¾” Type SP Structural Course

Widening
- 1” CF-9.5 Friction Course
- 2” Type SP Structural Course
- Opt. Base Group 9
- 12” Stabilized Subgrade

R/W Varies 55’ Min. R/W 55'
Design Services for Wiles Road from University Drive to Riverside Drive

**Project Approach**

**COMPLETE STREETS**

- 6’ minimum width continuous sidewalks on both sides of the street
- 5’ bike lanes in each direction. (The right of way width does not allow for development of a 3’ buffer (*desirable*) adjacent to the bike lanes. Establishment of a buffer area would require reducing median width, lanes widths and/or sidewalk widths below acceptable criteria).
- 11’ minimum through lane width
- Minimum median width of 16’
Project Approach

CRITICAL ISSUES

• Back of Sidewalk adjacent to Royal Eagle Plaza
Project Approach

CRITICAL ISSUES

- Redevelopment – Coral Springs Nursery
CRITICAL ISSUES

- Proposed re-development as Autozone and Cumberland farms
Project Approach

Design Services for Wiles Road from University Drive to Riverside Drive
CRITICAL ISSUES

- Coordination with proposed University Drive Widening Project
CRITICAL ISSUES - DRAINAGE

- Project Lies in Hillsboro Canal Basin (WB Lanes) and C-14 West Basin (EB Lanes)
- SFWMD
  - N. Springs Improvement District
  - Sunshine Water Control District
- Existing Split System
  - Sized for 6 Lanes
  - South Trunk Line French Drain
  - Condition of French Drain
    - Permit Indicates 30” Slotted RCP
    - Add FD to mitigate loss of Swale
- Existing SFWMD Permit 06-00477-S accounted for half of Wiles Road in 1988.
- Water Quality and quantity for additional impervious area will be met in FD.
**Project Approach**

**DRAINAGE - Permitting**
- Modify Permit 86-00039S (1986)
- Outside 100yr Flood Plain
  - No flood Plain Impacts anticipated
- Early Local Agency Involvement
- Pre-Application Meetings

- Coordination Already started:
  - Steve Zielnicki, Craig A Smith (SWCD)
  - Jane Early, NDIS
  - Eduardo Lopez & Carlos DeRojas, SFWMD
  - Mike Troxell, Thomas Engineering for Nursery Project.

**Anticipated Permitting**

<table>
<thead>
<tr>
<th>District/Department</th>
<th>Agency</th>
<th>Permit Type</th>
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<tbody>
<tr>
<td>South Florida Water Management District</td>
<td>SFWMD</td>
<td>Environmental Resource Permit Mod</td>
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<tr>
<td>North Springs Improvement District</td>
<td>NSID</td>
<td>Drainage Permit</td>
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<tr>
<td>Sunshine Water Control District</td>
<td>SWCD</td>
<td>Drainage Permit</td>
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<tr>
<td>Florida Department of Environmental Protection</td>
<td>FDEP</td>
<td>NPDES</td>
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</table>
Project Approach

CRITICAL ISSUES - UTILITIES

- Utility easements on both sides of ROW
- FPL Dist. Line in Easement - Isolated impacts
- FPL Fibernet splice vaults

<table>
<thead>
<tr>
<th>Utility Owner</th>
<th>Contact</th>
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<tbody>
<tr>
<td>Advance Cable Comm.</td>
<td>Diego Perez</td>
</tr>
<tr>
<td>AT&amp;T</td>
<td>Otis Keeve</td>
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<tr>
<td>Broward Co. Traffic Engineering</td>
<td>Bob Blount</td>
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<td>Broward Co. OES</td>
<td>Eva Florian</td>
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<tr>
<td>City of Coral Springs</td>
<td>Najla Zerrouki</td>
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<td>Leonard Maxwell-Newbold</td>
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<tr>
<td>FPL Distribution</td>
<td>Byron Sample</td>
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<tr>
<td>FPL Fibernet</td>
<td>Danny Hasket</td>
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<tr>
<td>TECO Peoples Gas</td>
<td>Max Chamorro</td>
</tr>
</tbody>
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Project Approach

MAINTENANCE OF TRAFFIC

Design Services for Wiles Road from University Drive to Riverside Drive
Project Approach

CRITICAL ISSUES

• Investigate Relocating Oaks
Past Performance

Andrews Avenue Segment 5
- FDOT Funded Project on Broward County Facility
- Green Book Criteria
- Coordinated Typical Section / Design elements with Broward County sign off

Client: FDOT District 4  
Start Date: May, 2011  
Completion Date: January, 2015 (Design), (2016 Construction)  
Completed on Schedule: Yes  
Completed on Budget: Yes

Atlantic Boulevard Streetscape
- Pompano Beach CRA Funded on FDOT Facility
- Redesigned Roadway Typical to incorporate complete street elements

Client: Pompano Beach CRA  
Start Date: July, 2010  
Completion Date: June, 2013  
Completed on Schedule: Yes  
Completed on Budget: Yes

Wiles Rd. – SR-7 to Powerline Rd.
- Two Separate Projects
- Prepared Design Survey, Roadway Design, Pavement Design, Signing and Marking Lighting, Landscape and Bridge Design
- 4-Lane Widening / Reconstruction Incorporated dedicated Bike Lanes and wide sidewalks

Client: Broward County  
Start Date: June 1996  
Completion Date: April 2002  
Completed on Schedule: Yes  
Completed on Budget: Yes

Design Services for Wiles Road from University Drive to Riverside Drive
Design Services for Wiles Road from University Drive to Riverside Drive

A Leading Engineering Consulting Firm

- Multi-disciplinary
- Florida firm since 1929
- Incorporated in 1972
- Over 120 professionals
- Five office locations
A Broward County Firm for over 44 Years

- Locally owned and operated
- Over 120 Employees
- Significant recent investments in infrastructure and training
K&S Commitment to CBE

- **15% Committed**
  - CTS Engineering (CBE)
  - Geotechnical – GCME (SBE)

- **DBE Utilization Awards**
  - In 2014, Keith & Schnars was recognized by FDOT for exceeding the DBE goal for 2012-2013 fiscal year
  - In 2015, Keith & Schnars was awarded the FICE/FDOT DBE Utilization Award
Past Performance

Stellar Performance Ratings

- High ratings from government clients
- Request to team with our competitors based on our performance
- Broward County Contracts
Why K&S?

Ability, Expertise and Commitment

• Ability of Team Personnel
  – Experienced and knowledgeable, Committed Design Staff

• Project Experience
  – Broward County System Experience
  – All team members have recent design experience on Broward County facilities

• Broward County Team
  – All team members have Broward County offices
  – K&S’s Corporate Headquarters has been in Broward County for 44 years
Thank You!

Presented by:
The Keith & Schnars Team
Questions & Answers