Southern Boulevard: From Conceptualization to Implementation

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Project Location
What were some of the dangers of the old footprint?

- No sidewalks
- No lighting
- 7 Lanes of traffic to cross
- No refuge space for pedestrian
- All uncontrolled movements
- Signals too far away
Why did the pedestrian cross the road?

• TA Truck Stop
• Greyhound Bus Station
• Motel
When Past Ideas Collide with the Present

- High Number of Pedestrian/Vehicle Crashes
Project Timeline

• Project Authorization
• Peer Review
• Public Involvement Meeting
Project Timeline

• Project Authorization

• Peer Review

• Public Involvement Meeting
Project Timeline

• Plan Development
• Project Reviews
• Let to Contract
• Total Timeline

October 2017 – July 2018 (~10 months)

- 6 months from Authorization to Construction Bureau Submittal

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65.0 MILESTONE: PLAN-IN-HAND INSPECTION

Designer shall check topographic and survey information during the field review for accuracy and update as necessary. Review hydraulic design in field. Review and ensure that the details shown in the plans adequately depict the geotechnical recommendations. If additional survey information is needed, provide electronic file with shapes designating additional survey limits and (1) hard copy with additional areas red-lined, any horizontal and vertical control information needed, and relationship of construction alignment to survey alignment.

85.0 MILESTONE - PS&E INSPECTION

NOTE: All major design and/or right-of-way changes to high priority projects after the PS&E will require a written letter of justification to the State Design Engineer originating from the parties requesting the changes. The State Design Engineer must concur with these changes before any changes and revised submittals are made.

90.0 MILESTONE - FINAL BACK CHECK

The designer shall transmit plan sets and other items as noted below. This plan submittal shall be made no later than 16 weeks prior to the letting date or earlier if special circumstances exist (refer to the GDCP Miscellaneous Notes page). If bridge work is a part of the project, only the Bridge General Plan and Elevation drawings are required to be in the plan assembly for the Final Back Check submittal. Bridge drawings/bridge information does not have to be signed or stamped at this time. Therefore, complete bridge plans are not required for the Final Back Check submittal. All other plan assembly sheets are required to be in the plan assembly to constitute a complete Final Back Check plan submittal, i.e., signing design, lighting design, ITS design, utility sheets, drainage sheets, all soil borings, cross sections, etc. Incomplete Final Back Check plan submittals may be returned unless accompanied by written approval from the Quality Control Bureau Chief, Assistant Chief Engineer-Preconstruction, or Chief Engineer for the incomplete submittal.

95.0 MILESTONE - CONSTRUCTION REVIEW SUBMITTAL

99.0 MILESTONE - FINAL PLANS TO OFFICE ENGINEER

99.05 MILESTONE – PROJECT LETTING
Design Characteristics

• Sidewalks
Design Characteristics

• Roadway Lighting
Design Characteristics

- Markings and Refuge Area
Design Characteristics

• Markings and Refuge Area
Design Characteristics

- Controlled Movements / Access Management
Design Characteristics

• Distance between crossings

Old Footprint – Half a mile between signals
Design Characteristics

• Distance between crossings

- New Footprint
  - ~0.15 mi
  - ~0.25 mi
  - ~0.10 mi
Design Characteristics

• Location of Crossings

~0.15 mi

~0.12 mi

~0.12 mi

~0.10 mi
Issues During Construction

- Soil Conditions

Poor Soil Quality Under Service Road

Standing Water At Davenport U-Turn Bulb
Issues During Construction

- Drainage
- Pipe Flow
- Line Below
- Ditch Flow Line
Issues During Construction

• Drainage

Newly Graded Ditch
Issues During Construction

• Utilities
Thank you!

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