US 231
How to get a State Highway built when the funding falls short!

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The Area Plan Commission was designated the MPO for the Lafayette Metropolitan Area following the 1970 Census when the urbanized population Exceeded 50,000 persons. The MPO’s First long-range Transportation Plan, Adopted in 1978, included the US 231 Relocation project.
The 1978 plan expected that between 1991 and 1995 the southernmost section would be constructed, right-of-way would be purchased for the middle section and design would be completed for the Northernmost section.
1992 Record of Decision, $18 million
  $14 million construction
$  4 million right-of-way estimate

2003 Environmental Assessment, $59 million
  $48 million construction
  $10 million right-of-way estimate
$  1 million utility

2006 Major Moves, $87 million
  $62 million construction
  $23 million right-of-way estimate
$  2 million utility

2007, $98 million
  $62 million construction
  $23 million right-of-way estimate
  $13 million utility
INDOT communicated to the local community that they will not spend more than $75 million on the project, and asked the local community to eliminate the $23 million gap by contributing funds and/or suggesting design changes that reduce the estimate cost.

2008 before negotiation - $98 million
- $62 million construction
- $24 million right-of-way estimate
- $12 million utility
- All construction cost overruns will be INDOT’s responsibility
- INDOT assumptions
  1. Relocation costs are included in the right-of-way amount
  2. Approx. 23 property owners north of SR 26 - approx. 10 relocations
  3. Purdue share = $14 million right-of-way and $10 million utilities

2008 after negotiation - $88.7 million (INDOT funding available $76 million)
- $56.2 million construction
- $22.5 million right-of-way estimate
- $10 million utility
An Organized approach to providing all of the essential functions at the LOWEST cost.

~ H. Stewart Kline & Associates
~ Kevin Hall
Alignment Option #1

Savings: $3,676,000.00
Alignment Option #2

Savings: $2,639,000.00
231 Median Options
Southern Section (River Rd to State St)

► Option A
- Widen median to 12 meters and eliminate slotted drain and barrier.
- Advantages – simplifies drainage structures, shoulder width reduced. total savings of $1,500,000.
- Disadvantages – require more area to mow.

► Option B
- Design as 45 mph Urban Arterial.
- Advantages – Eliminates barrier and slotted drain, and reduces pavement. total savings of $2,300,000.
- Disadvantages – Would be inconsistent with the section south of the project.
Reduce Median Width by 10 ft.

- Meets design standards
- Right-of-way needs reduced by 2.6 acres
- Structure lengths reduced

Savings: $354,000.00
Other Options Considered

► Change back/front slopes in ditches
► North leg – reduce median to 10’ barrier
► North leg – reduce grass area
► One contract instead of Two
Total Savings

► Option 1 Alignment = $3,676,000.00
► Option B Median = $2,415,000.00
► North median width = $354,000.00

Grand Total = $6,445,000.00
Project Summary
US 231

Cost Reductions

- Value Engineering: $6,500,000
- Redesign Costs: $1,000,000
- Reduced Estimate for Weather Station: $1,500,000
- Utility Cost Reduction (PU): $2,000,000
- Value Engineering: $300,000

Total Cost Reductions: $9,300,000

Revised Project Cost: $88,700,000

Funding Summary

- INDOT: $76,000,000
- Tippecanoe County: $8,000,000
- MPO/STP: $2,700,000
- Purdue University/PRF: $2,000,000 (commitment)

Total: $88,700,000
QUESTIONS?
US 231

Thank you for your time!

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