



PACT Meeting #8

CONSTRUCTION PRESENTATION

February 10, 2011



Presentation Topics

- **Construction Duration**
 - **Constructability**
 - **Construction Impacts**
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Construction Duration

Construction duration is based on funding availability (in total or in part). If funding for construction of the entire corridor were available at project outset, any of the alternatives could be constructed in a four- to six- year duration.

Funding is not yet available for the construction of the entire project.

Construction Duration

The following factors, however, require consideration:

- ▶ Roadway construction activity is not likely to start sooner than three years after the Record of Decision is signed
 - ▶ Two to three years would be required to complete right-of-way acquisition, design work, and construction contractor procurement
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Construction Duration

- ▶ A minimum of four years is required under ideal conditions for construction
 - ▶ If funding is only available in smaller amounts, the construction duration could become considerably longer
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Construction Duration

Timeline Summary

FEIS: 12 months

ROD: 6 months to 1 year

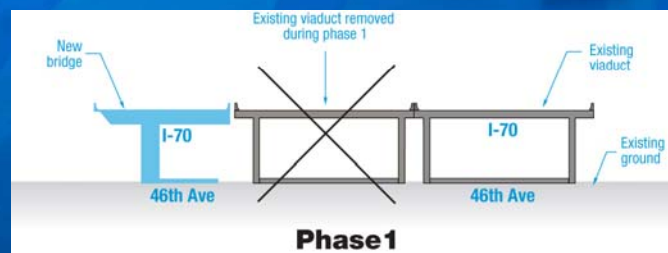
Design (including ROW): 2 to 3 years minimum

Construction: 4 to 6 years (full funding available)

Total: 8 to 11 years minimum

Constructability: Current

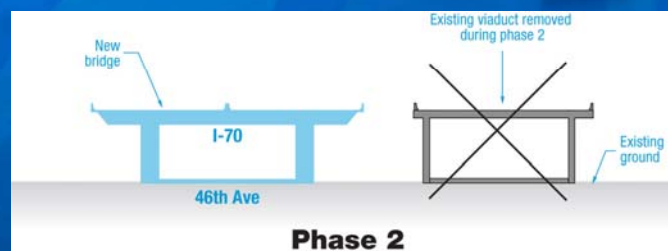
1. Build a new bridge section
2. Transfer one direction of traffic to the new bridge
3. Take down half of the old viaduct



Phase 1
Brighton Boulevard to Colorado Boulevard

Constructability: Current

1. Build a new bridge section where the old was just taken down
2. Temporarily transfer the other direction of traffic to the new bridge
3. Take down the remaining viaduct



Phase 2
Brighton Boulevard to Colorado Boulevard

Constructability: Current

1. Build a new bridge section where the remaining viaduct was just taken down
2. Transfer traffic to its permanent location

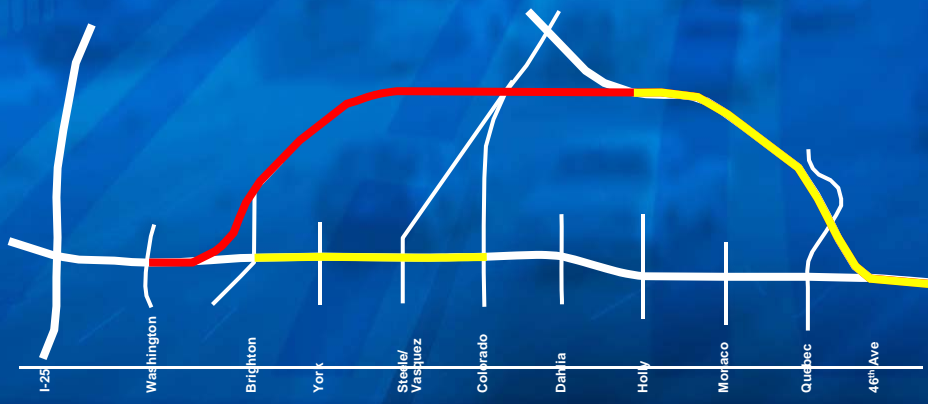
Brighton to Colorado: 5+ years, \$666 to 847 M



Brighton Boulevard to Colorado Boulevard

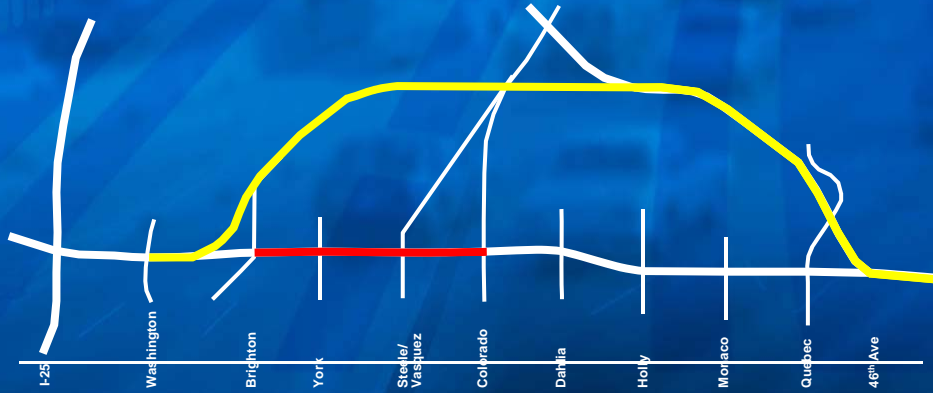
Constructability: Realignment

1. Construct realigned highway from existing I-70 to existing I-270 (almost 3 miles)



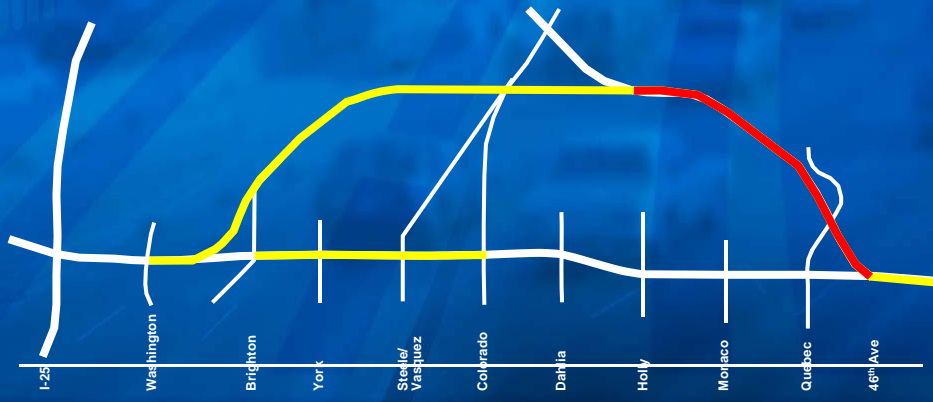
Constructability: Realignment

1. Construct realigned highway from existing I-70 to existing I-270 (almost 3 miles)
2. Remove existing I-70 Viaduct



Constructability: Realignment

3. Reconstruct I-270 to add additional travel lanes

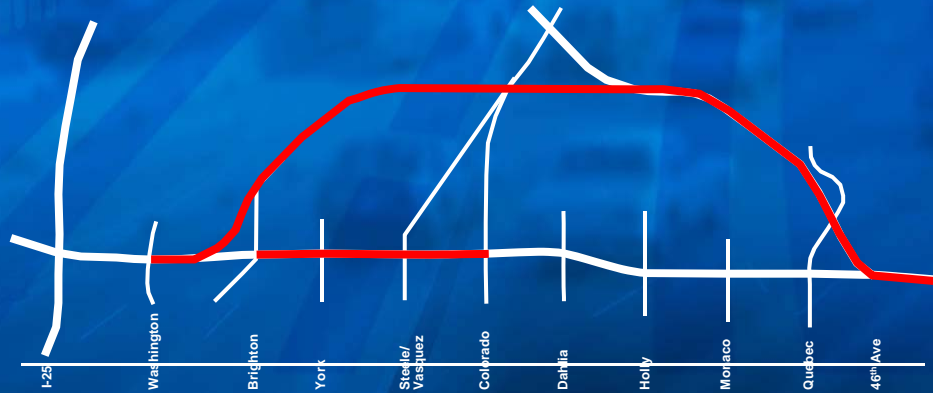


Constructability: Realignment

Washington to Colorado: 3 years, \$875 M to 1.1 B

Colorado to Quebec/I-70: 4+ years, \$423 M

Total: 4+ years (min), \$1.3 to 1.5 B



Constructability

- Existing Alignment
 - Several phases required to make improvements, can be constructed in a minimum of 5+ years
- Realignment
 - Traffic can continue to use I-70 during construction, may be able to expedite construction due to fewer phases
 - Construction of almost 3 miles of the realignment can be completed off-line
 - Avoids \$150 to \$200 million in anticipated future capacity improvements for two miles of I-270

Impacts from Construction

During the development of the DEIS, assumptions were made on how resources might be impacted. Resources potentially impacted include:

- ▶ Temporary congestion and road closures, and possible sidewalk/bike path rerouting
- ▶ Temporary business access rerouting
- ▶ Right of way/temporary easements
- ▶ Temporary view obstructions and construction staging

Impacts from Construction

- ▶ Air quality through fugitive dust and construction machinery emissions
- ▶ Noise during the use of heavy machinery and site excavation

Details of these impacts will be better understood and refined when design is finalized just prior to construction. We will be reevaluating these impacts when design is finalized.

► Questions?
