Medical Center Station Access Improvement Study

February 24, 2009
BRAC Implementation Committee Meeting
Medical Center Station

- Primarily serves large employment base:
  - NIH: Over 18,000 employees
  - NNMC: 8,000 employees
Study Goals

- **Project Goals:**
  - Encourage and support transit ridership
  - Reduce trip time
    - Both vehicles and pedestrians
  - Increase pedestrian safety
  - Explore cost effectiveness of potential alternatives
Alternatives

1. No build
2. Deep elevators
3. Shallow tunnel
4. Deep elevators & shallow tunnel
5. Pedestrian bridge
Alternative 1: No Build
Alternative 2: Deep Elevators
Alternative 2: Deep Elevators
Alternative 3: Shallow Tunnel
Alternative 3: Shallow Tunnel
Alternative 4: Deep Elevators & Shallow Tunnel
Alternative 4: Deep Elevators & Shallow Tunnel
Alternative 5: Pedestrian Bridge
Alternative 5: Pedestrian Bridge
## Comparison of Alternatives

<table>
<thead>
<tr>
<th>Performance Measure</th>
<th>Alternatives</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td><strong>Increase Pedestrian Safety</strong></td>
<td></td>
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<tr>
<td># of conflicting traffic movements</td>
<td>High</td>
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<tr>
<td><strong>Reduce Trip Time</strong></td>
<td></td>
</tr>
<tr>
<td>Vehicular delay</td>
<td>High</td>
</tr>
<tr>
<td>Pedestrian travel time (minutes)</td>
<td>7</td>
</tr>
</tbody>
</table>
# Comparison of Alternatives

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<thead>
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<tr>
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<tr>
<td>Order of Magnitude Project Cost* FY08$ (M)</td>
<td>1</td>
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<tr>
<td>Traffic Disruption</td>
<td>Low</td>
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</tbody>
</table>

* Cost estimates may increase during design phase depending on the following factors:
  - Utilities
  - Subsurface investigation
  - Construction method
Future Station Activity

New entrance: 550-720 peak hour passengers
Ridership Growth

Over 16,000 daily passengers expected by 2020

- NIH: 51% (2007) → 41% (2020)
- NNMC: 15% (2007) → 31% (2020)
- Patients & Visitors: 4% (2007) → 5% (2020)
- Misc.: 6% (2007) → 4% (2020)
Next Steps

- Refine alternatives
- Final report

Questions or comments?
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