2016 FRA Rail Program Delivery Meeting

Mitigation & Communities Ms. Odessa L. Phillip, PE Baltimore & Potomac Tunnel Project Baltimore, Maryland

Introduction

- BSCE, Howard University
- Masters of Engineering, University of MD College Park
- Professional Engineer, MD
- Former Adjunct Professor, Howard University College of Engineering, Architecture and Computer Sciences
- President, Assedo Consulting LLC







Presentation Agenda

Project Background Funding/Team Location Alternatives Impacts Public Outreach NEPA Process Targeted Outreach Approach Mitigation Working Group

Project Background

Baltimore & Potomac Tunnel Project

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Project Funding

- MDOT was awarded a \$60 million HSIPR grant from the FRA
- Grant covers the NEPA study process and preliminary design efforts
- Grant does NOT include funds for final design or construction

High Speed Intercity Passenger Rail (HSIPR) Program

Unprecedented Investment in Rail Infrastructure

FRA has solicited applications for more than \$10 billion in grant funding. To date, 39 states, the District of Columbia, and Amtrak have submitted applications requesting more than \$75 billion—well in excess of the available funding— for projects and corridors in every region of the country. Approximately 99% of the nearly \$10.1 billion allocated to the HSIPR Program across funding sources has been obligated.



B&P Tunnel Project Team



U.S. Department of Transportation Federal Railroad Administration

Grantor/NEPA Lead

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Maryland Department of Transportation

Grantee



Tunnel Owner

Project Partner



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What is the B&P Tunnel Project?

An engineering and environmental study (NEPA) to develop and evaluate alternatives to the existing Amtrak tunnel

An evaluation of alternatives designed to improve capacity, reliability and travel time for existing and projected passenger rail service on Amtrak's Northeast Corridor (NEC)



Existing B&P Tunnel

- Opened in 1873
- 2-track railroad tunnel
- 1.4 mile-long tunnel system
- Made up of three shorter tunnels:
 - Gilmor Street Tunnel
 - Wilson Street Tunnel
 - John Street Tunnel
- Connects West Baltimore MARC and Penn Stations
- Carries Amtrak, MARC, & Norfolk Southern trains on NEC
 - 142 trains (21,600 passengers) per day
 - 2 freight trains per day







B&P Tunnel Project Map



Project Purpose

The purpose of the project is to **address the structural and operational deficiencies** of the existing B&P Tunnel and to accommodate future highperformance intercity passenger rail service goals of the tunnel which:

Is approaching the end of its useful life

- Does not provide enough capacity to support current and projected demands
- Is not suited for modern high-speed usage due to tight clearances and sharp curves, which limit train speeds through the tunnel to 30 mph



Project Purpose (cont'd)

- Improve travel time
- Accommodate existing and projected travel demand for passenger rail services (regional and commuter)
- Eliminate impediments to existing and projected operations along the NEC
- Provide operational reliability
- Take into account the value of the existing tunnel as an important element of Baltimore's rail infrastructure

Alternatives Considered



Alternatives Retained



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Refined Alternatives



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Preferred Alternative

- Results in the best improvements to travel time;
- **Provides accessibility** improvements to the West Baltimore MARC Station; and
- Takes into account public comments that reduce environmental impacts



Preferred Alternative Project Elements

- Constructs 4-tracks in individual tunnel bores
- Shifts location of West Baltimore MARC station
- Requires 3 tunnel ventilation plants along the alignment

Four Track Tunnel

- Four tracks are needed to accommodate future highfrequency passenger train service on the NEC
- Four tracks located in four separate tunnel bores are proposed.



Tunnel Ventilation

Ventilation Plant:

- Above-grade structure that houses tunnel ventilation fans, operation and control rooms, and other equipment
- Ventilates the tunnel during normal, maintenance, and fire emergency operations

Electrical Panels





Ventilation Fans

Alternative 3, Option B

NORTH PORTAL RENDERING



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Proposed Vent Plant NORTH PORTAL LOCATION

1-83

• MICA

Proposed Vent Plant Location

W. North. Ave

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Mt. Royal Terrace

Vent Areas of Consideration MID TUNNEL SITE



Alternative 3, Option B

SOUTH PORTAL RENDERING

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Public Outreach

Understanding the Community

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Project Neighborhoods

- Penn North/ Reservoir Hill
- Bolton Hill
- Greater Rosemount/ Midtown Edmonston
- Sandtown-Winchester
- Harlem Park
- Southwestern Baltimore



West Baltimore MARC Station



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American Ice Company



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Midtown Edmonson



Midtown Edmonston



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Sandtown-Winchester



Reservoir Hill



Reservoir Hill - Whitelock Community Garden



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Baltimore Penn Station



Initial Outreach Approach

- Adhere to spirit of NEPA regulations
 Identify impacted communities
 - Disseminate postcard notifications using zip code list (20,000)
 - Develop project website
 - Hold Public Information Meetings at predetermined project phases
 - Scoping Meeting/Purpose & Need
 - Alternatives Meeting
 - DEIS Public Hearing(s)

NEPA Outreach Process



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Outreach Obstacles

- Socioeconomics
- Uninformed elected officials & communities
- Distrust of government
- Poor communication
- Fear of change
- Misinformation to community
- Meeting/information overload
- Civil Unrest

Community Reaction to Project



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Modified Outreach Approach

Grassroots Approach

- Partnered w/ Baltimore City DOT to reach elected officials, community leaders, residents and property owners
- Refined project mailing list using GIS
- Scheduled targeted meetings at project milestones
- Simplified project materials (website)
- Developed and disseminated newsletters & fact sheets
- Attended community meetings and presented project updates
- Convened mitigation working group

Modified Outreach Process



Revised mailing list



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Public Materials





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Grassroots Outreach



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Public Meeting



Public Meeting



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Targeted Meeting Series



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Targeted Meeting Series



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Mitigation Changing the conversation

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DEIS Comment Themes



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Community Concerns

- Transportation (Freight)
- Hazardous Materials
- Neighborhood character
- Economic Development
- Equity
- Quality of Life
- Noise
- Air Quality **

Mitigate UP

- FRA expressed desire to leave community improved
- Engaged a group of leaders and vocal opponents to work with team to develop potential solutions
- Keep a fully transparent process

Mitigation Discussion

QUESTIONS

How do you mitigate for long term, historical Impacts to Baltimore?

Can you put resources to invest in existing programs? How do you frame in perpetuity these preasures? Preserve archeological findings Use existing tunnel for community Measure and report value of community input into process

VENT PLANT

Create joint community use for physical facility job training center community center

Community BETTERMENT Upgrade lighting in communities Secure old tunnel Positive re-use of existing tunnel. Maintain property values based on current tax assessment Improve (protected bike lanes) to W.Balt MARC and Penn Stettion Maintain ability to secure insurance Establish fund to help secure a floor for property values (indexed to market value)

Mitigation Elements

Community

- Parks & Recs facilities funds
- Community Garden funds
- Design & landscaping
- Vent plant screening

Economy

- Coordinate w/ local job training organization
- Create contractor goals for disadvantaged workers

Mitigation Elements (cont'd)

Transportation

- Streetscape, pedestrian & bike funds
- MOT Plan for Construction
- Retain existing tunnel for future
- Additional station amenities at West Baltimore MARC
- Natural Resources
 - SWM Plan
 - E&SC Plan
 - Rodent Abatement Plan

Lessons Learned

- Communities get information differently
 - Create high-tech (website, email list) and low-tech (newsletters/fliers) options
 - Address misinformation immediately!
- Open house format doesn't always work
 Present information to community
- Too many agency meetings
 - Go to THEIR regularly scheduled meetings
- Be prepared to LISTEN!
- Work WITH the community

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Thank you!

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