



Station Design and Implementation

TLC FY 17 Montgomery County: Bus Rapid Transit Station Design

TPB Peer Exchange

January 13, 2020

Station Design

- Grant from Metropolitan Washington Council of Governments TLC Land Use Connections Program
- Develop modular, scalable design for BRT system



Metropolitan Washington
Council of Governments

MC DOT

Montgomery County Department of Transportation

ZGF

ZIMMER GUNSUL FRASCA ARCHITECTS LLP



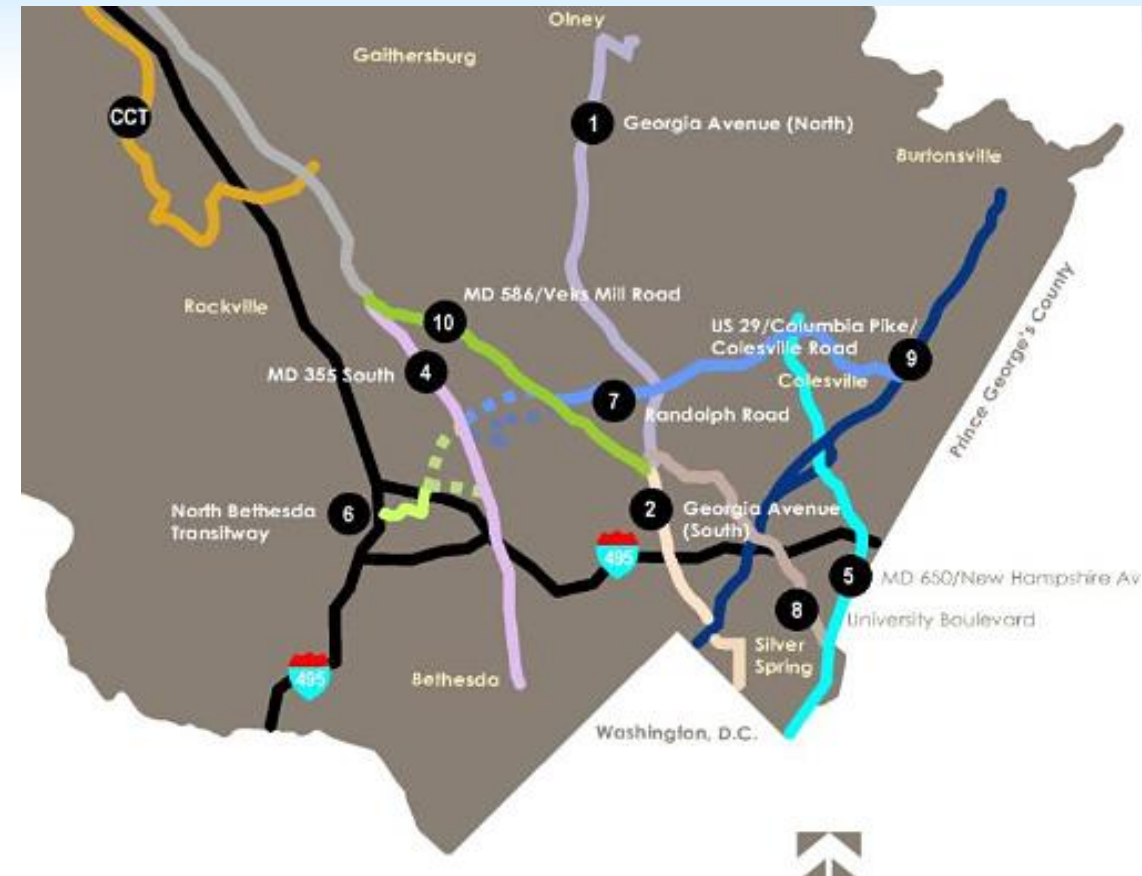
WMC
DC

WILES MENSCH CORPORATION-DC

BRT in Montgomery County

- Countywide Transit Corridors Functional Master Plan, 2013
 - 100-mile BRT Network, 10 Corridors
 - Establishes Right of Way

- Network of corridors with diverse land uses



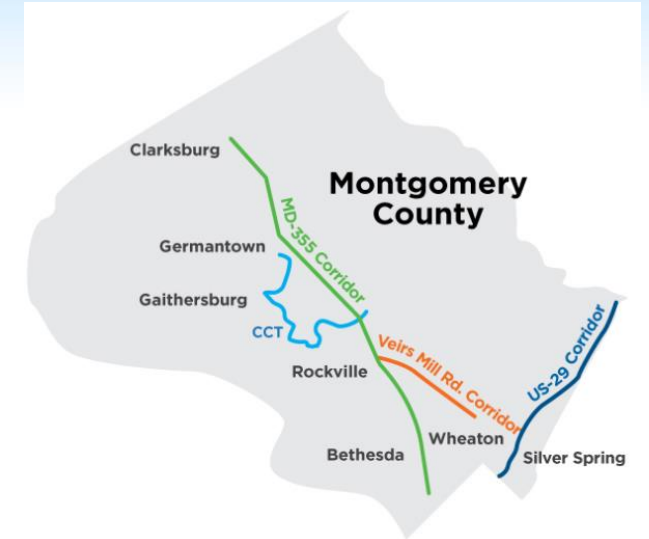
Where Are We Now?

- US 29 FLASH
 - Construction to be complete Spring 2020
 - Service starts Summer 2020
 - Study for adding dedicated bus lanes or managed lanes ongoing

- MD 355 BRT
 - Phase I Planning completed this summer
 - Beginning Preliminary Design
 - RFI Issued in September

- Veirs Mill Road BRT
 - Beginning Preliminary Design

- CIP includes funds for planning of New Hampshire Avenue (FY22) and North Bethesda Transitway (FY24)



Station Design Criteria and Goals

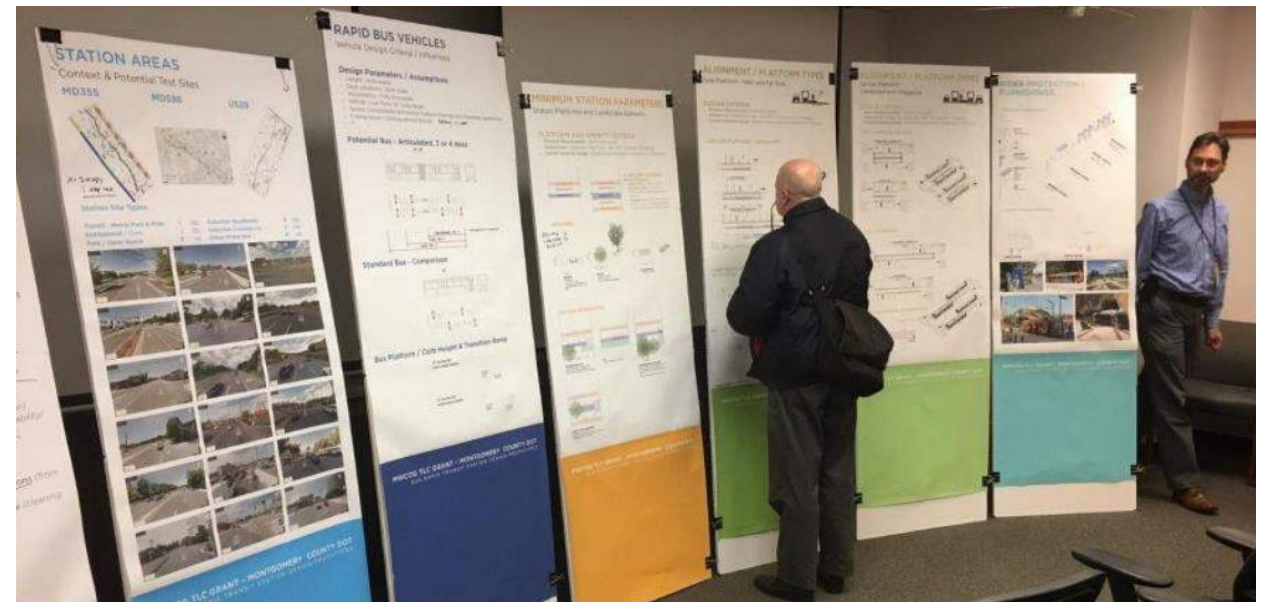
- Easy to Find and Use
- Accessible
- Safe and Comfortable
- Adaptable and Context Sensitive
- Maintainable
- A Good Life-Cycle Investment



Public & Stakeholder Involvement

- Technical Stakeholder Advisory Group (TAG)
- Open Houses
- Corridor Advisory Committees

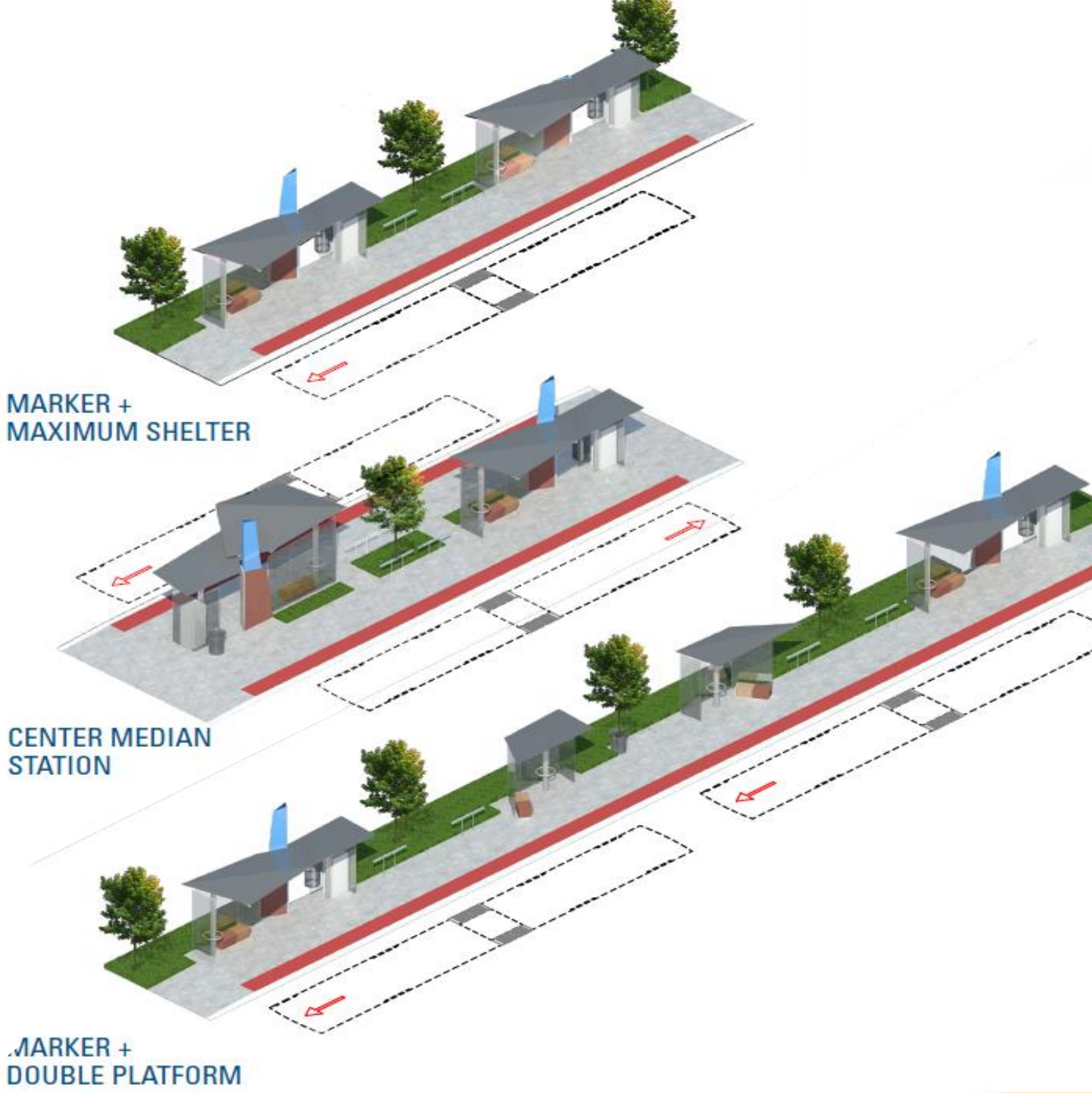
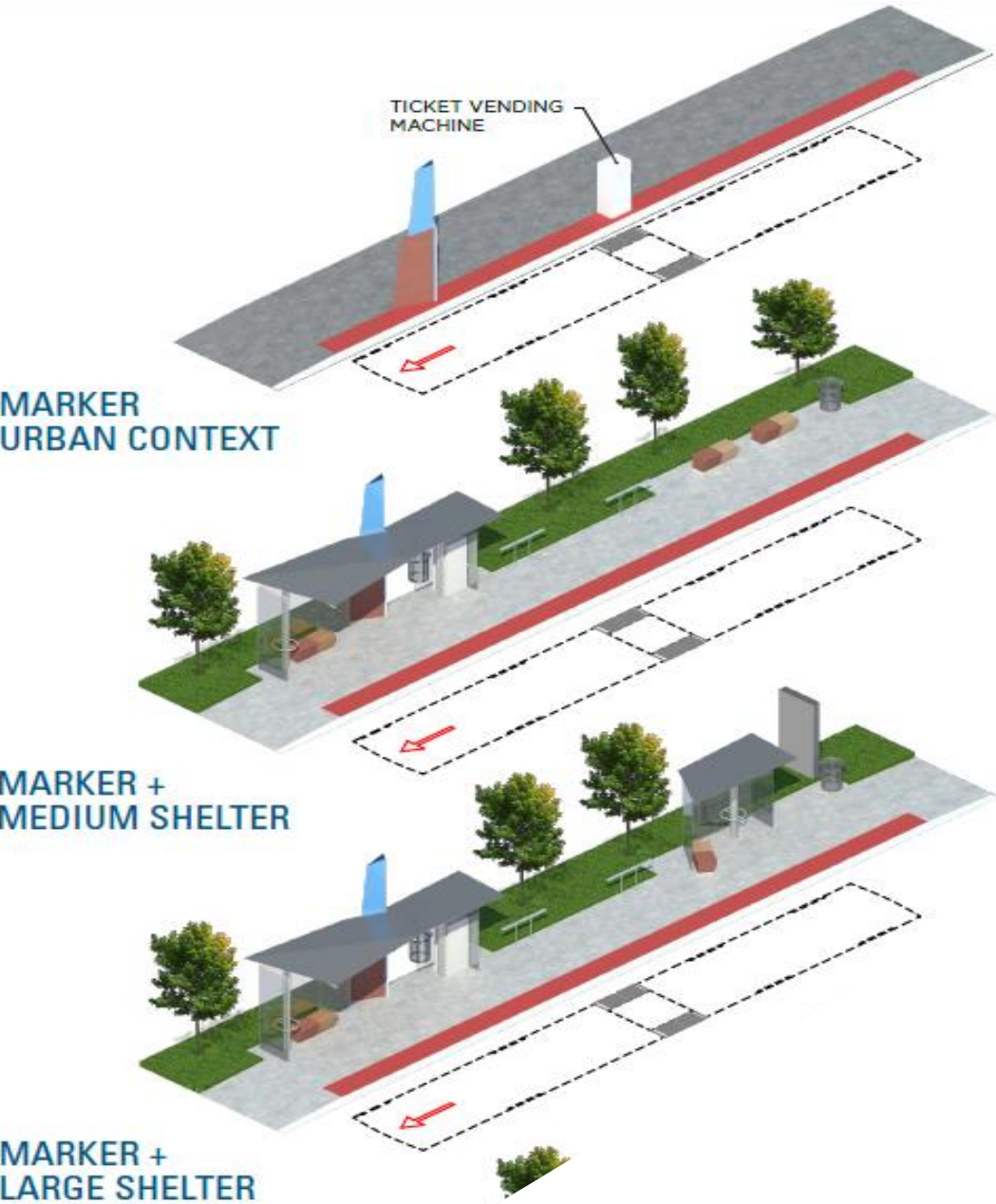
connectivity
 natural-resources
 rapid-growth diversity
 high-tech green safety moving
 educated diverse innovative
 beautiful open crowded
 advanced language



Prototype Design



Design Framework





**URBAN MIXED-USE
US 29 – FENTON ST**



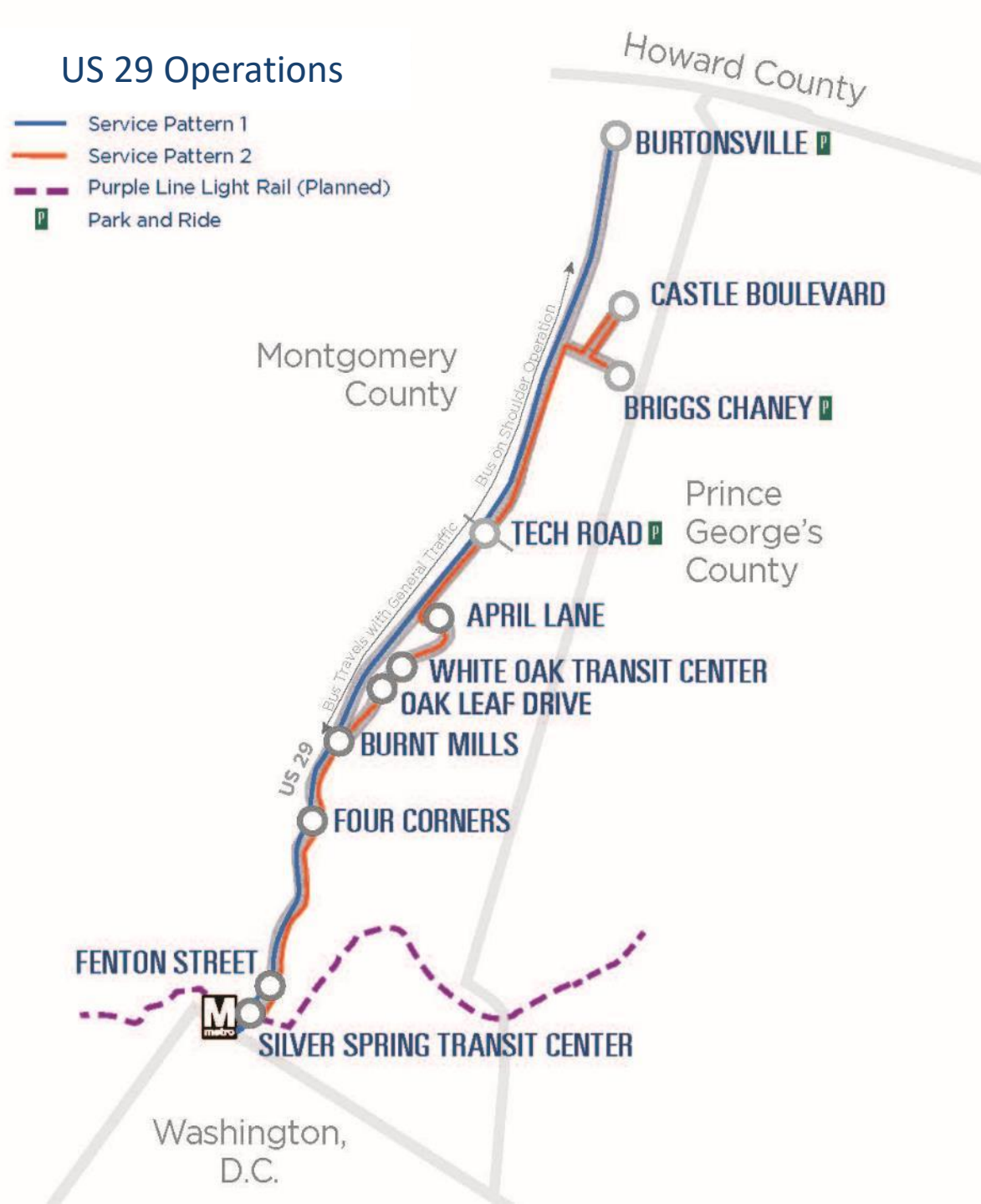
**PARK & RIDE –
HIGHEST CAPACITY
US 29 – BURTONSVILLE**



Implementation

US 29 FLASH

- Silver Spring Transit Center to Burtonsville
- Frequent all-day service
 - 7 days/week
 - Similar hours to Metrorail
 - 7.5 minutes peak; 15 minutes off-peak
- 11 Stations (18 platforms)
- Bus on shoulder north of Tech Road (~40%)



Lessons Learned

Constructability





Constructability

Pipe Bending
Installation
Utility Impacts



Questions?

Contact

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