

## Dulles Corridor Metrorail Project – Phase 2 Quarterly Update

Keith Couch
Capital Rail Constructors

**July 2014** 







## **Project Team**







**Clark Construction** 

**Kiewit Infrastructures South** 

**Parsons** 

**Dewberry** 

SOM

**Mass Electric Construction** 

JV

JV

**Subcontractor-Design** 

**Subcontractor-Design** 

**Subcontractor-Design** 

**Subcontractor-**

**Electrical/System** 





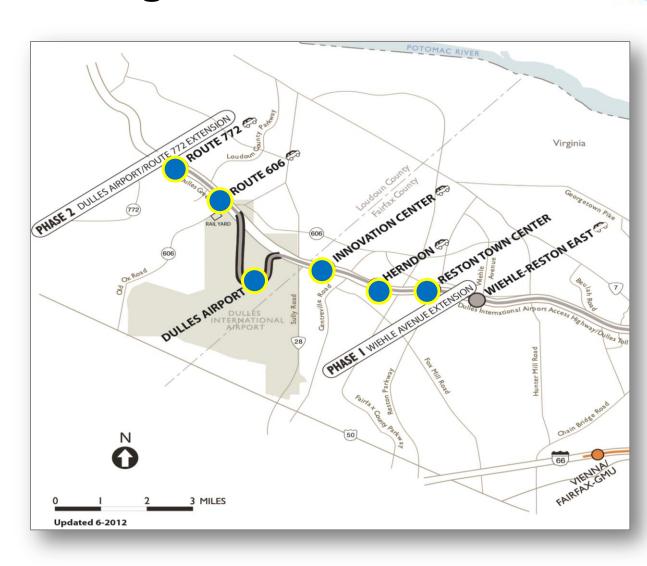






## Phase 2, Package A— Overview

- 11.4 -mile extension from Wiehle Avenue in Reston to Ashburn
- 6 stations:
  - Reston Town Center
  - Herndon
  - Innovation Center
  - Dulles Airport
  - Route 606
  - Route 772/Ashburn
- Value: \$1,177,777,000
- Contract Type:
  - Lump Sum Design/Build
- Schedule: 5 years



## Scope of Work- Overview

**Five Major Components:** 

- 1. Civil
- 2. Structures
- 3. Facilities
- 4. Rail
- 5. Systems

Herndon

Centreville Rd.

**Reston Town Center** 



Route 772

**Broad Run** 

Route 606

**Aerial Structure** 

**Dulles Airport** 

Horsepen Run

**Innovation Center** 



## **Civil: At-Grade Guideway**

■ Track: 89,100 track feet

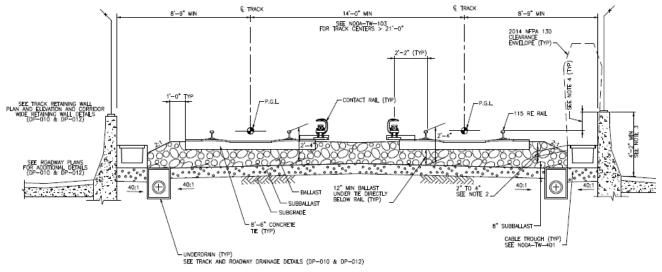
Barrier Wall: 79,000 linear feet

Barrier Concrete: 44,500 cubic yards

■ Ballast Stone: 133,900 tons

■ Sub-ballast: 91,400 tons

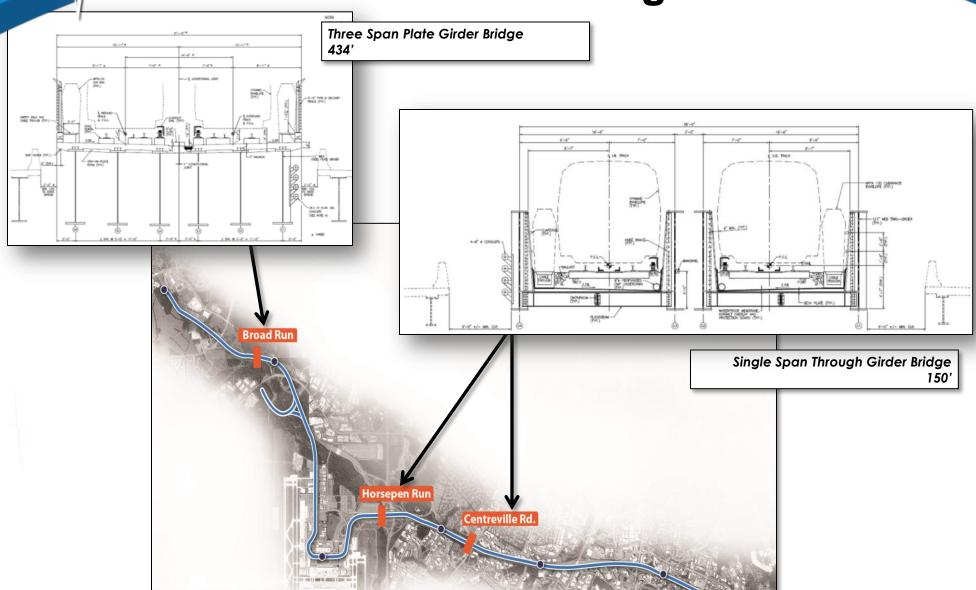
Storm: 78,000 linear feet

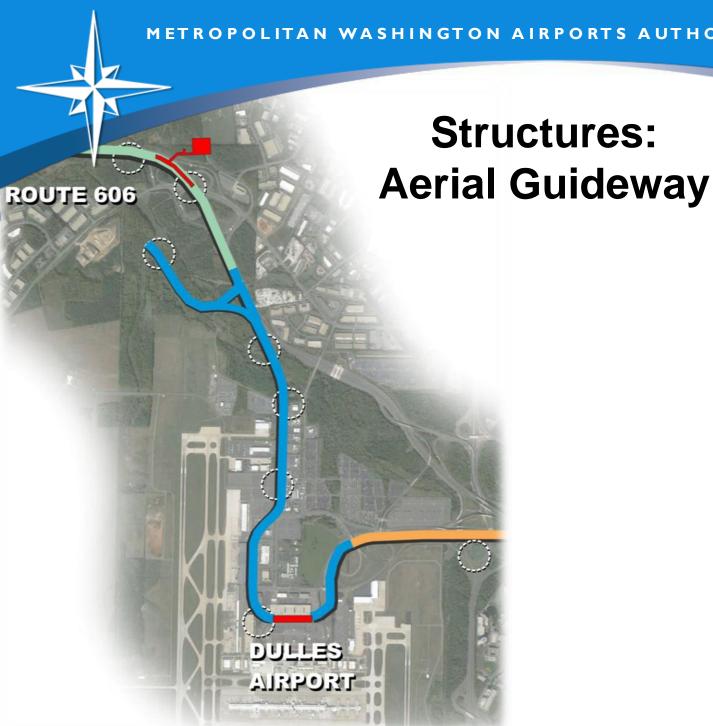




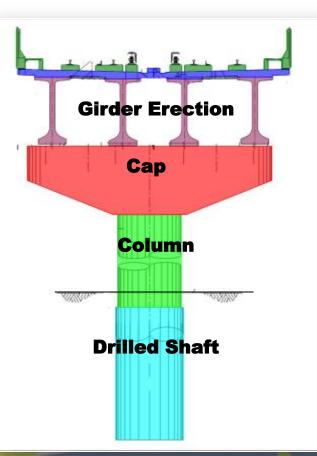


## Structures: Bridges









- Typical Span 110' 150' / 305 Spans
- 119 Piers, 4 stages of construction







## **Facilities: Dulles Airport Station**







#### Since Notice to Proceed (July 2013)

- Man-Hours: 500,000+
- No Environmental Enforcement Actions
- Lost Time Rate: 0.00 compared to industry rate of 1.4
- Recordable Incident Rate: 0.00 compared to industry rate of 3.7

#### **Current Program Focus:**

- Work Zone Safety / Adjacent to Traffic
- Utility Relocation
- New Employees
- Lower Tier and Specialty Contractors
- Craft Involvement & Training













## **Design-Build Status**

Design Status:	55% Complete
<ul><li>Geotechnical Work</li></ul>	86% Complete
<ul><li>Initial Survey Work</li></ul>	95% Complete
<ul><li>Track Design</li></ul>	66% Complete
<ul><li>Systems Design</li></ul>	43% Complete
<ul><li>Civil Design</li></ul>	62% Complete
<ul><li>Utilities Design</li></ul>	69% Complete
<ul><li>Facilities Design (Stations)</li></ul>	40% Complete
<ul><li>Wayside Design</li></ul>	55% Complete
<ul> <li>Structures Design (Aerial Guideway and 3 Bridge</li> </ul>	es) 59% Complete
<ul> <li>Design Packages Issued</li> </ul>	71
<ul><li>Issued for Permit (IFP) Packages Issued</li></ul>	8
<ul><li>Permits Received</li></ul>	4
<ul><li>Issued for Construction (IFC) Packages Issued</li></ul>	4





## 12 Month Look Ahead Schedule

## **Dulles Segment:**

- Aerial Structure
  - Start Aerial Structure Drilled Shafts
  - Start Aerial Structure Column and Caps
  - Start Aerial Structure Girder Erection
  - Start Aerial Deck
- Dulles Airport Station
  - Start Dulles Station Excavation
  - Start Dulles Station Foundations
- Utility Relocation
- GSE Demolition
- Tree Relocation



## 12 Month Look Ahead Schedule

## **East Segment:**

#### Civil

- Start Enabling Work (MOT and E&S)
- Start Jack and Bore
- Start Civil Work (earthmoving, drainage)

#### Stations

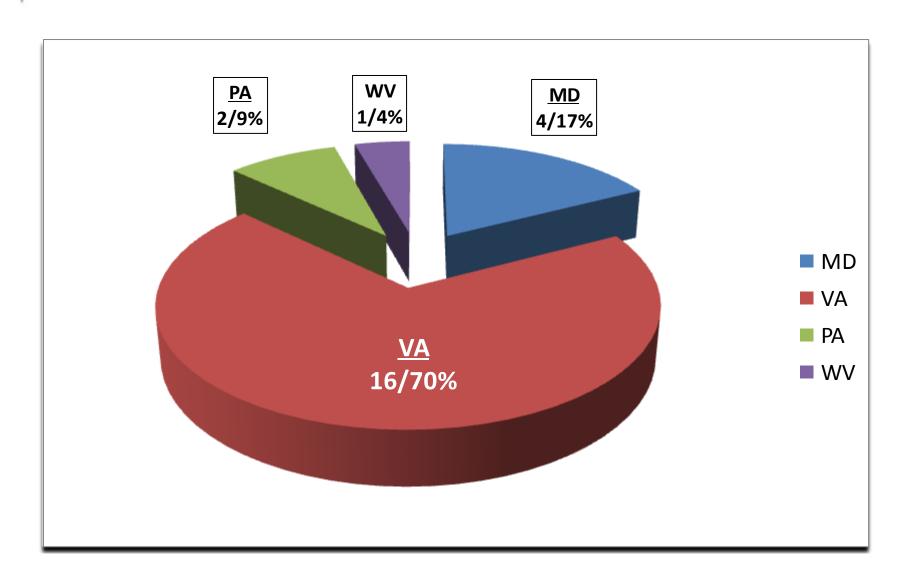
- Start Innovation Station Foundations
- Start Herndon-Monroe Foundations
- Start Innovation Station Precast Erection

#### Bridges

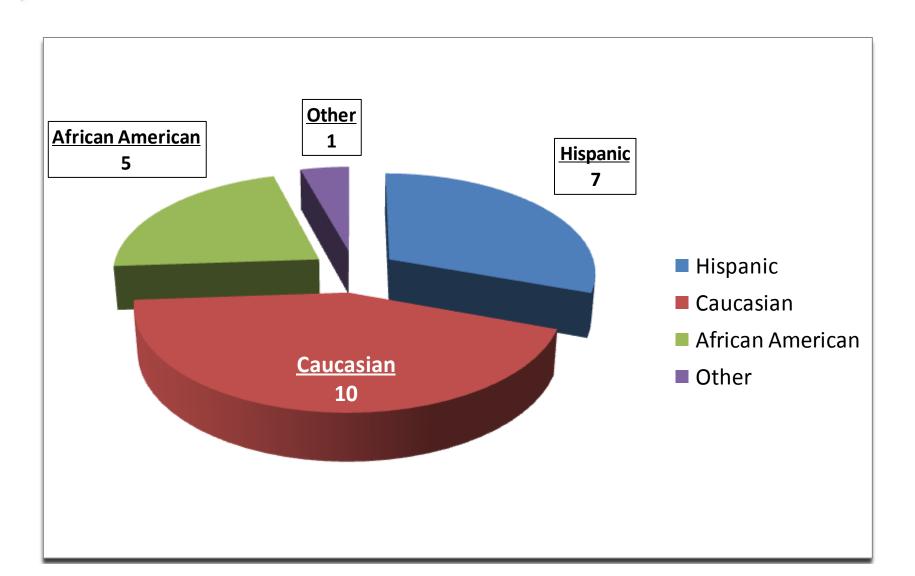
- Start Horsepen Run Bridge
- Start Centreville Road Bridge



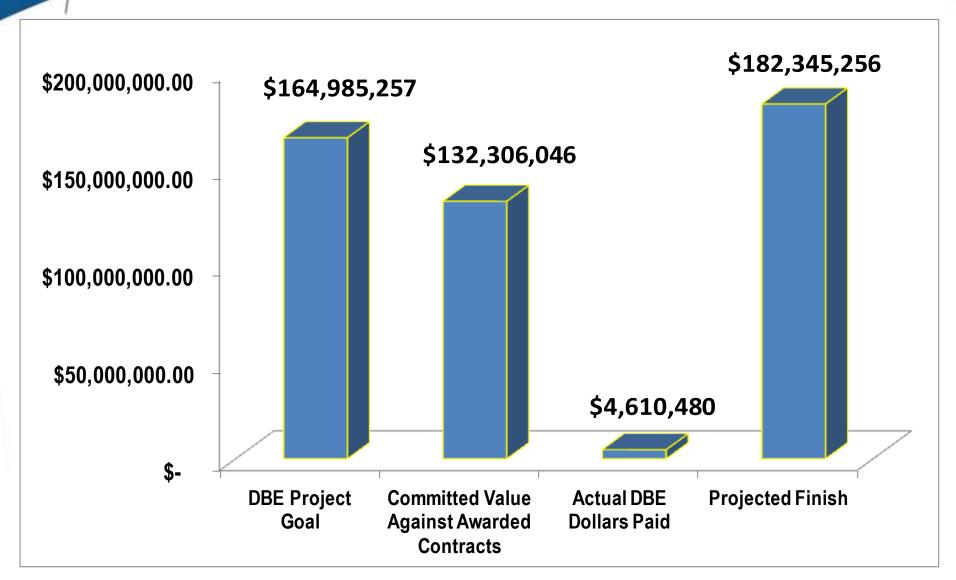




## Labor by Race/Ethnicity during May 2014







# Office of Federal Contract Compliance Programs (OFCCP) Status as of May 2014

#### **Outreach**

- Attended the Herndon Festival in June
- Events for the year being scheduled
- Have engaged "Helmets to Hardhats" in attempt to partner.

#### **Centralized Employment Assistance**

- Website under development to assist companies identify job seekers and vice versa. (Does not replace any company's normal hiring procedures.)
- Subcontractors will be required to utilize this tool as part of their good faith efforts.
- Walk-in Capital Rail Constructors (CRC) Employment Trailer at AP-4

#### **Training - For Employees and for Companies**

- 16-Step training for subcontractors starts in June.
- Subcontractors asked to identify their Department of Labor-approved apprenticeship program or submit proof of equivalency.

#### **Established Steering Committee**

Monthly Meeting with OFCCP Mid-Atlantic Regional Director and appropriate CRC staff.

#### METROPOLITAN WASHINGTON AIRPORTS AUTHORITY

## Geotechnical Testing, Survey, Utility Location















## **Test Shafts**









## **Tree Removal – Autopilot Drive**



