

# Dulles Corridor Metrorail Project Phase 2 – Package B

#### Quarterly Update to MWAA Board of Directors

Michael Barker Hensel Phelps

March 2019







# Phase 2 Package B -Agenda

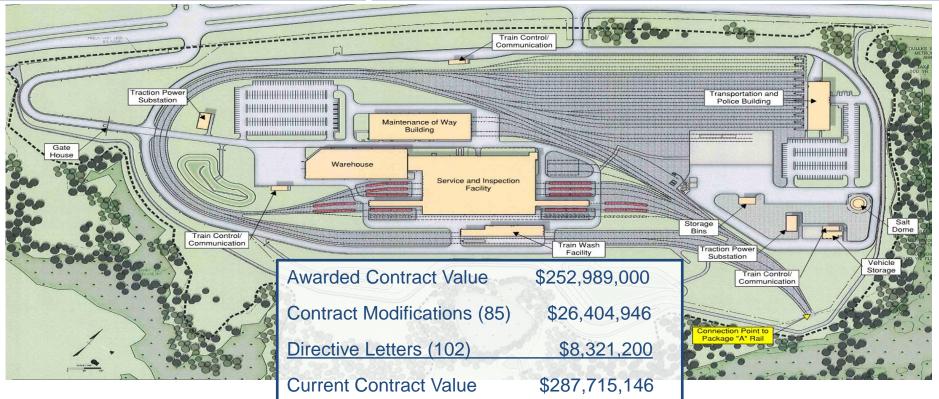


- Contract/Project Overview
- Safety
- Schedule
- Project Status
- DBE
- Diversity
- Environmental





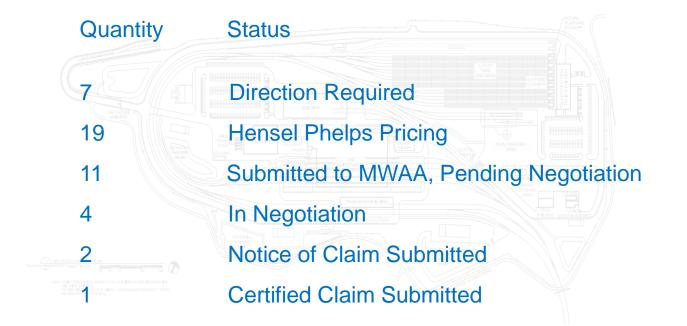
#### Project Status - Value







#### **Project Status – Outstanding Changes**







#### **Outstanding Cost and Schedule Impacts**

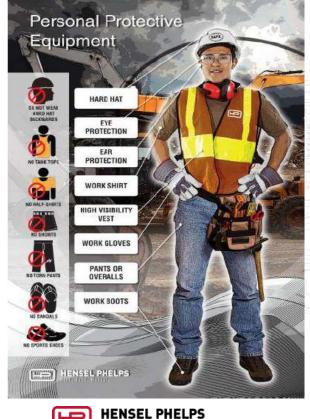






METROPOLITAN WASHINGTON AIRPORTS AUTHORITY

#### **Project Safety Record**



Plan. Build. Manage

Man-Hours: 1,820,320 (2015 - 2018) **PROJECT DART RATE:** 1.32 (Days Away, Restricted, Transferred) **Safety Orientation:** 2200 +(Total Trained) **Project OSHA Recordable Rate:** 1.75 **Project Wide** COLUMN T 0.22 **Hensel Phelps** -Lost Time Rate – Project Wide: 0.11 Lost Time Rate – Hensel Phelps: 0.00



#### **Project Schedule Overview**







# **Project Schedule – 12 Mo Look Ahead**

1 <sup>st</sup> Quarter 2019	2 <sup>nd</sup> Quarter 2019	3 <sup>rd</sup> Quarter 2019	4 <sup>th</sup> Quarter 2019
<ul> <li>Finish and Punch Buildings</li> </ul>	Finish and Punch Site	<ul> <li>Change Order Work</li> <li>System Integration</li> </ul>	System Integration     Testing for Changes
<ul> <li>Commissioning of Industrial Equipment</li> </ul>	Commissioning of     Industrial Equipment	<ul> <li>Testing for Changes</li> <li>Demonstrations for</li> </ul>	Demonstrations for Changes
• Energizing Third Rail	Mill and Pave     Mercure Circle	Changes	Project Closeout
<ul> <li>System Integration Testing</li> <li>Training</li> </ul>	<ul> <li>System Integration Testing</li> <li>Training</li> </ul>	<ul> <li>Project Closeout</li> <li>Safety &amp; Security Documentation fro Changes</li> </ul>	<ul> <li>Safety &amp; Security Documentation fro Changes</li> </ul>
	<ul> <li>Demonstrations</li> <li>Safety &amp; Security Documentation</li> </ul>		



November 2018

Looking East





# November 2018

# Looking Southwest





#### Service & Inspection Facility 186,000 sf

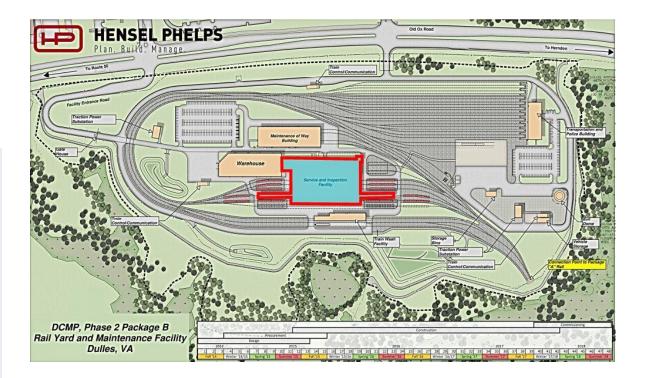
#### Percent Complete: 96%

Includes:

- a single story high bay maintenance area
   Primary Function:
  - is the maintenance, repair, interior and cleaning
- a two-story administrative area. Includes :yard control tower

Equipment Included:

- 20 turntables,
- 36 vehicle lifts,
- 4 truck lifts,
- 1 wheel trueing machine,
- 1 wheel and axle press,
- 1 wheel boring machine,
- 4 20-ton bridge cranes,
- 1 10-ton bridge crane
- 1 5-ton bridge crane.



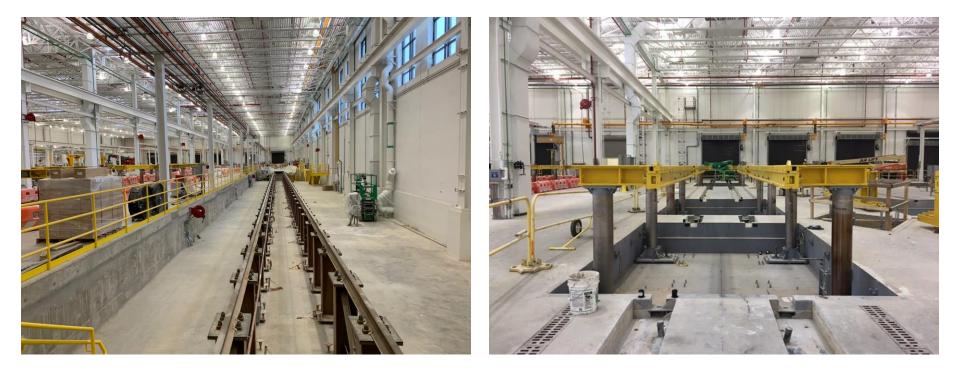


# November 2018

SIB







# SIB Shop Area





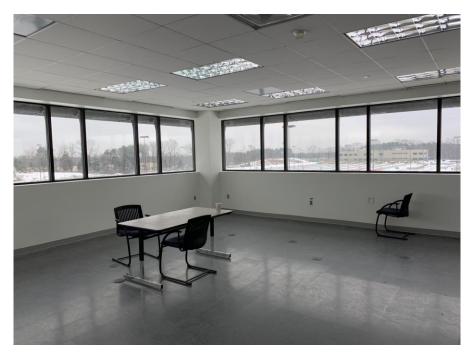


#### SIB Shop Area

#### SIB Shop Area







#### **Upper Mezzanine**

#### SIB Control Tower



Maintenance of Way Facilities 67,000 sf

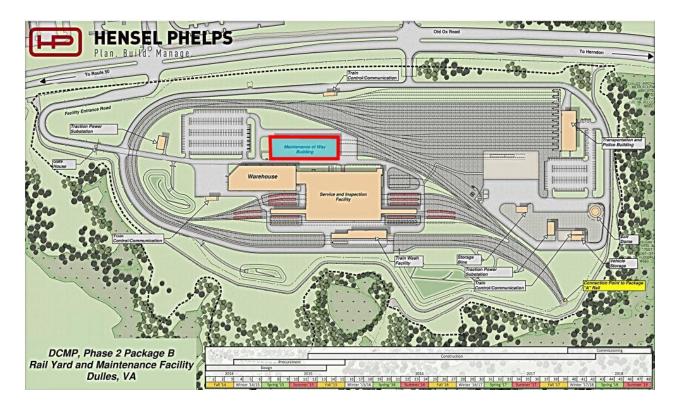
Percent Complete: 92%

#### Consists of:

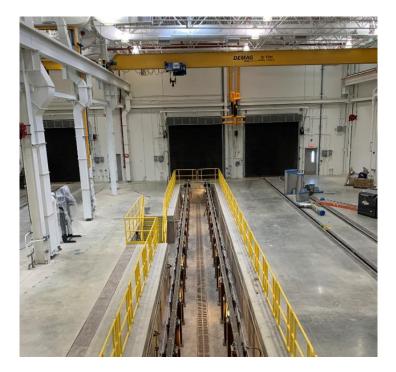
- a single story high bay maintenance area and
- · a two-story administrative area

Primary function:

- the maintenance and repair of the revenue track maintenance equipment
- houses the MOW department.









#### MWB Maintenance Bay







#### MWB Second Floor

**MWB Second Floor** 



#### Transportation & Police Building 35,000 sf

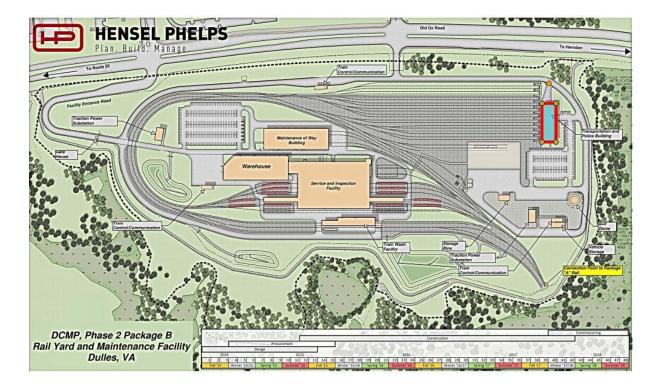
#### Percent Complete: 92%

#### Consists of:

- a single story high bay maintenance area and
- a two-story administrative area

Primary function:

- the maintenance and repair of the revenue track maintenance equipment
- houses the MOW department.











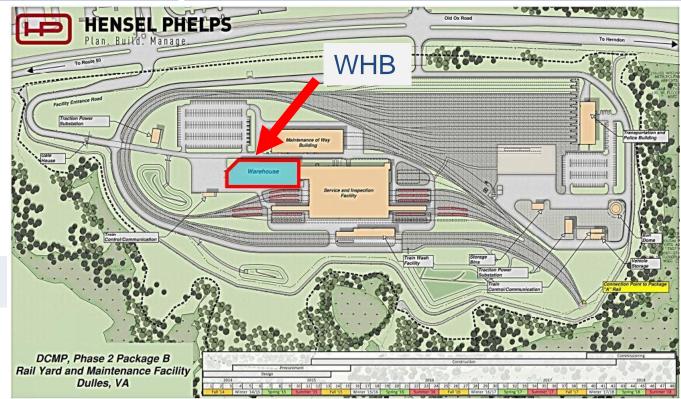
#### **TPB** Looking East



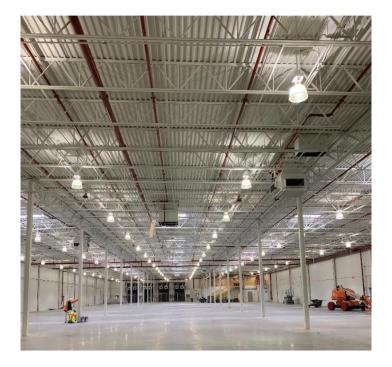
# Warehouse 50,000 sf

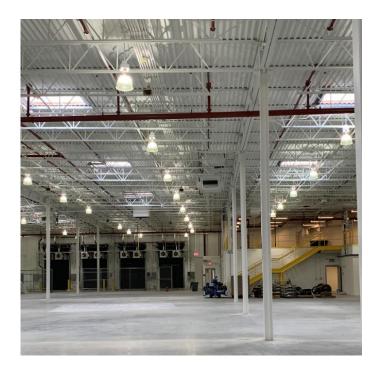
Percent Complete: 90%

Single story, high bay building that stores rail car maintenance parts.









#### Warehouse

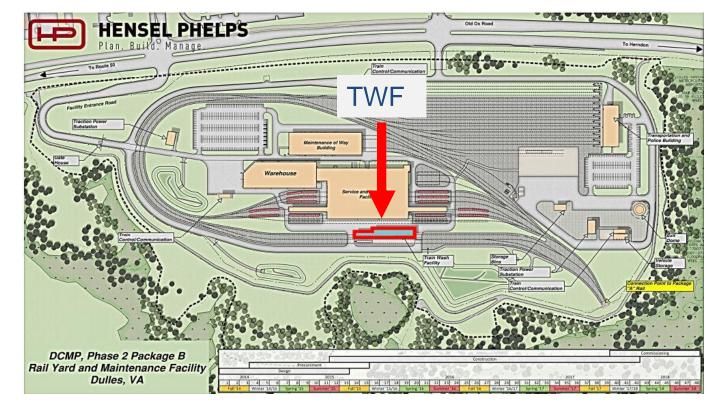


Train Wash Facility 14,000 sf

Percent Complete: 86%

Single story structure that washes the rail cars.

This is an automatic system that sends the trains through multiple stations of cleaning and drying prior to exiting the facility.





#### Train Wash looking North



#### Inside Train Wash Facility





#### **Track Work**

Percent Complete: 94%

#### Sitework

Percent Complete: 99%

Asphalt Paving

Percent Complete: 47%





November 2018

Track





**Billing Curve** \$350,000,000 \$300,000,000 \$250,000,000 \$200,000,000 \$150,000,000 \$100,000,000 \$50,000,000 \$0 Jul-16 Sep-16 Sep-16 Sep-16 Jan-17 Jan-17 Jan-17 Jun-17 Jun-17 Jun-17 Jun-17 Jun-18 Sep-17 Jan-18 Jan-18 Jan-18 Jan-18 Jan-18 Jan-18 Jan-19 Jun-20 Ju Jul-14 Aug-14 Sep-14 Oct-14 Nov-14 Jan-15 Jun-15 Jun-15 Jun-15 Jun-15 Sep-15 Sep-15 Sep-16 Aar-16 May-16 Jun-16 Jun-17 Jun-15 Jun-15 Jun-15 Jun-16 Jun-17 Ju ----- Early Monthly Billing Late Monthly Billing Projected Remaining Work ------ Earned Work





#### **DBE Small Business Procurement**

#### **DBE** Participation



Total Awarded Subcontracts	\$228,788,924	
DBE Contracts Awarded	\$ 42,998,602	(14.94%)
Countable DBE Participation	\$ 37,561,661	(13.06%)

- Contracts Awarded
- DBE Participation Commitment







# **Current Project Labor Diversity**

	Professional		I Foreman		Laborer		Operator		Finisher		Carpenter		Painter /Glazier/Tile Setter		Pipefitter / Plumber		r Iron Worker / Welder		Mechanic / HVAC		Electrician	
African																						
American	9	2%	5	1%	26	6%	5	1%	6	1%	1	0%			:	5 1%			3	1%	12	3%
Caucasian	81	20%	9	2%	12	3%	14	3%	1	0%	3	1%	3	1%	8	3 2%	6	3 2%	15	4%	38	9%
Hispanic	16	4%	6	1%	29	7%	6	1%	23	6%	9	2%	30	7%	2	1 5%	5 10	) 2%	5	1%	25	6%
Other	12	3%									1	0%			(	5 1%			2	0%	3	1%
Female	12	3%			6	1%							2	0%								
African																						
America	n	72 1	5%		Car	ucas	ian	192	2 41%	6	His	panio	180	38%	C	Other	24	5%	Fer	male	20	4%
America		12	0 /0		Cut	1040	lan	10/	L +1/	U	1110	panie	, 100				<b>4</b> -1	570	1.01	nuis	20	770





#### **Current Labor by State**

	Prof	essional	sional Foreman		Laborer		Operator		Finisher		Carpenter		Painter/Glazier/Tile Setter		Pipefitter/Plumber		Iron Worker/Welder		Mechanic/HVAC		Electrician	
VA	57	13%	10	2%	26	6%	5 13	3%	. 5	1%	6	6 1%	25	5 6%	6 18	4%	9	2%	65	5 1%	61	14%
MD	45	10%	8	2%	29	6%	. 7	2%	22	5%	, 7	7 2%	5	5 1%	6 19	4%	7	2%	6 18	3 4%	8	2%
DC	3	1%			6	1%	. 2	0%	. 3	1%	,				0	0%	. 1	0%	6 1	I 0%	5	1%
Other	13	3%	2	0%	6	1%	5 3	1%			1	1 0%	. 3	3 1%	6 2	2 0%	1	0%	6 1	I 0%	5	1%
VA		235	5	50%			М	D	17	<b>'</b> 5	37	7%		DC		21	4%		Ot	her	37	8%

\*Includes other states PA, WV, NJ, AZ, OH, FL, TN, NC, KY, IN, GA & CA \*Manufacturing accounts for 64% of the other states





**Environmental** 

# Erosion and Sediment Control In Compliance – No Infractions

Spills/Releases

In Compliance – No releases







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