

Public Facilities Review
Committee (PFRC)
Meeting #5
May 4, 2022



Agenda

- I. Welcome, Introductions
- 2. Project Updates
- 3. Next Steps / Adjourn

Team Introductions

Project Team









Arlington County Transit Division

- Pierre Holloman Assistant Transit Bureau Chief
- William Jones Transit Services Manager

Arlington County Facilities and Engineering Division

• **John Mir** – Facilities Design and Construction Manager













Design Consultants

- **Greg Shipley**, AIA, LEED AP BD+C Stantec Architecture, Inc. Project Manager
- Osvaldo Ramos, P.E. Timmons Group Civil Engineer

Next Steps

Previous

- PFRC Meeting #1 Dec 2020: Concept Master Plan
- PFRC Meeting #2 Feb 2021: Schematic Massing and Exterior Building Aesthetics
- PFRC Meeting #3 Jun 2021: Updated Exterior Aesthetics
- PFRC Meeting #4 Sep 2021: Project Update

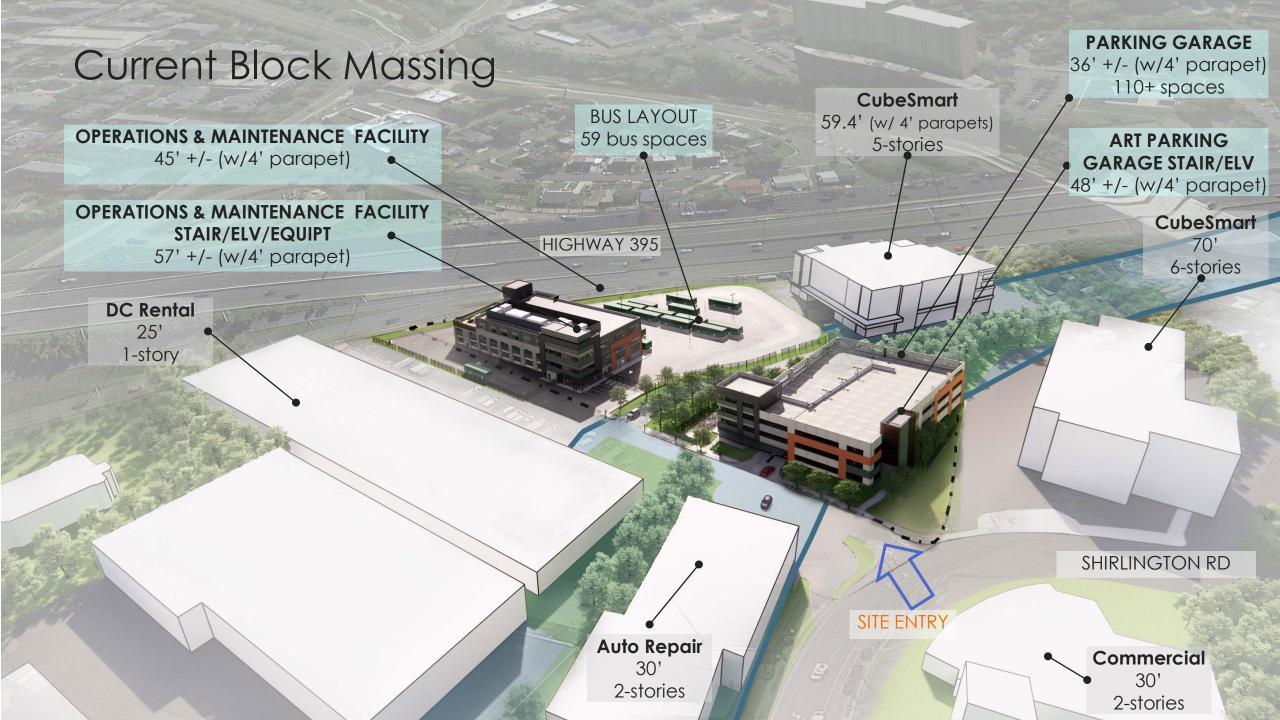
Today – PFRC Meeting #5

Project Update

Next Steps

- Permitting
- County Board (GMP and Use Permit Approval)
- Construction

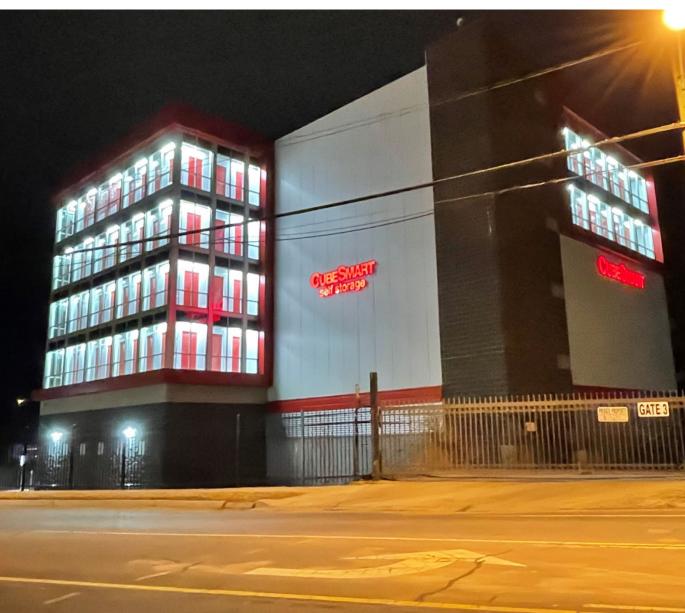
Updated Exterior Aesthetics





Shirlington Approach View

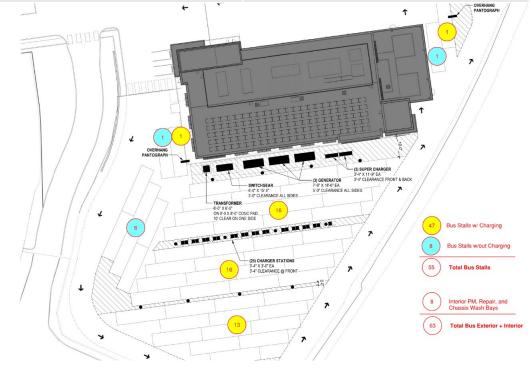


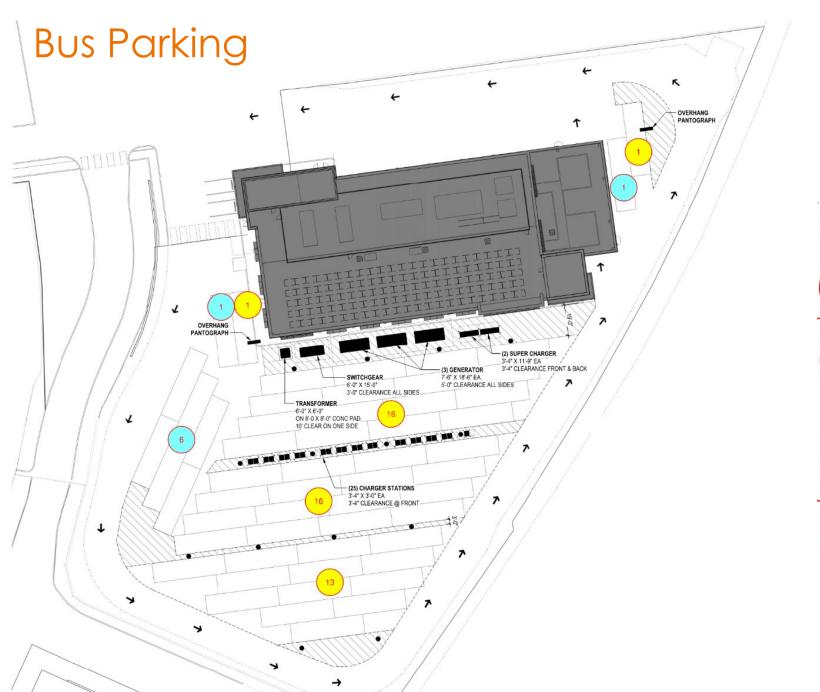


Bus Parking

Site w/ CNG	Description	Site w/ BEB
No	Fueling on Site	Yes
59	# Exterior Bus Parking Stalls	55
8	# Interior Bus Bays	8
67	Total Buses (Exterior + Interior)	63







Bus Stalls w/ Charging

8 Bus Stalls w/out Charging

55 Total Bus Stalls

8 Interior PM, Repair, and Chassis Wash Bays

(63) Total Bus Exterior + Interior



Pantograph Infrastructure



Future Pantograph Infrastructure w/ Photovoltaic Panels





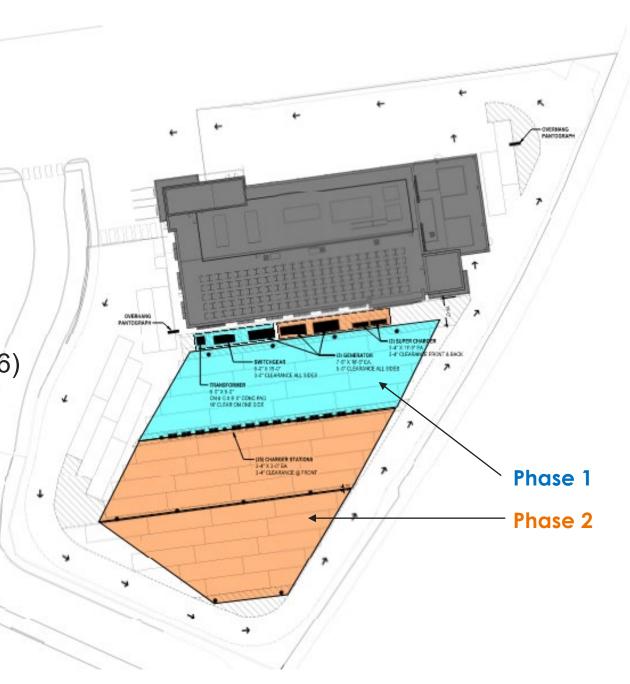
Phasing

Phase 1

- Transformer
- Switchgear
- Generator (1)
- Underground electrical ductbanks
- Overhead infrastructure for (45) stations
 with pantographs and PV Panels for first (16)
- Charging Cabinets (8)

Phase 2

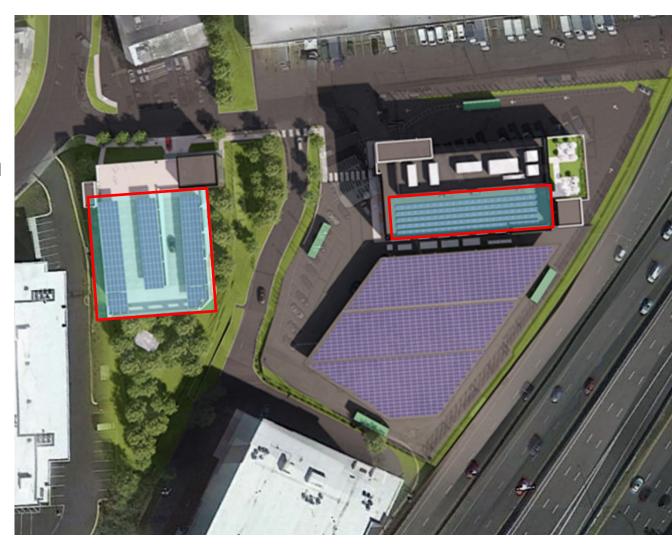
- Additional generators (2)
- Remaining (29) Pantographs plus (2) Mast pantographs and fast chargers
- The remaining Charging Cabinets (15)





Initial GMP: AOMF Building & Parking Structure

- Energy Cost Savings 39.34%
- Equivalent to 15 EA points + 1 pt. for Regional Priority
- 23.7 % Renewable Energy Production equal to 3 points + 1 pt. for EP
- 5 pts. under LEED v4.1 for Renewables
- LEED Gold 70 Anticipated points



Phase 1: AOMF Building w/PV on Roof + Parking Garage + **BEB Structure**

Total PV Area 40,874 SF

- **Energy Cost Savings 81%**
- Equivalent to 18 EA points + 1 pt. for Regional Priority
- LEED Renewable Energy Production equal to 3 points, OR 5 points under LEED v4.1 + 1 pt. EP
- LEED Gold 73 Anticipated points



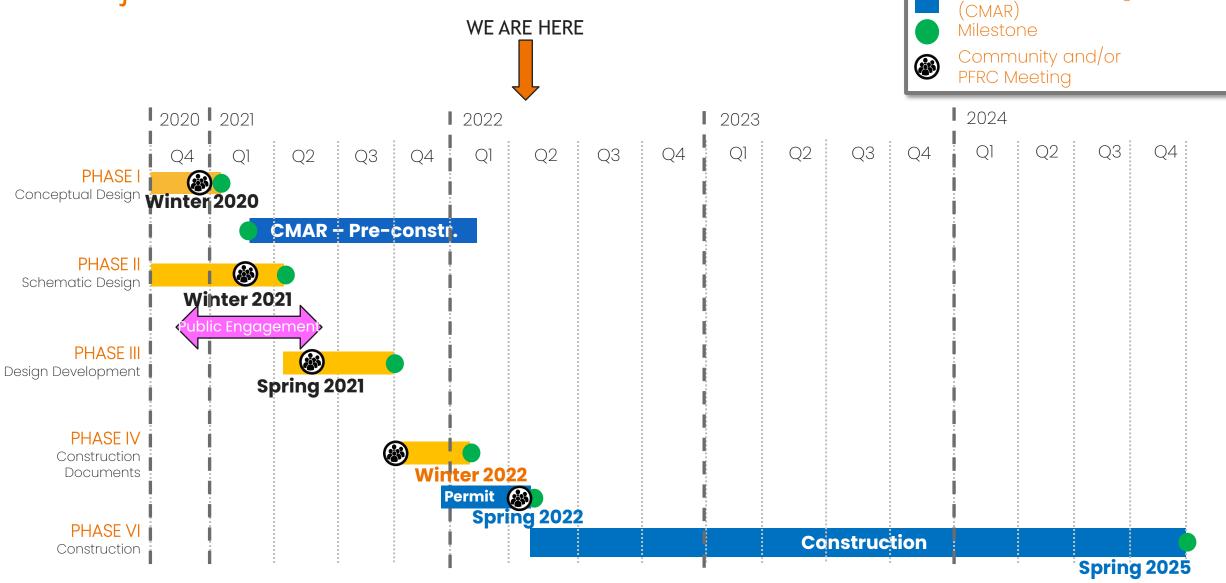
Comparative Analysis

	Energy Cost Savings	Renewable Energy Production	Utility Cost Saving per Year
AOMF BLDG	20.48%	0%	\$ 21,683
AOMF BLDG + PV on Roof	28.04%	9.48%	\$ 29,657
AOMF BLDG + PV on Roof + Parking AOMF BLDG + PV on Roof + Parking + BEB	39.34%	23.70%	\$ 41,619
(only first 16 bus spaces)	54.15%	42.33%	\$ 57,289

Full PV Installation

- AOMF BLDG and PV on Roof + Parking Structure + BEB Structure
- Total PV Area = 40,874 SF (4,355 SF + 6,600 SF + 10,792 SF + 19,127 SF)
- Energy cost savings of 81% (~2,416 MMBtu), means potential to offset over 81% of total building's annual consumption
- Saving \$67,118 in utility costs every year

Project Timeline



In Progress

Construction Manager at Risk







ART Operations and Maintenance Facility

Q&A

Arlington County Transit Division

- Pierre Holloman Assistant Transit Bureau Chief
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- William Jones Transit Services Manager
 - wjones@arlingtonva.us

Arlington County Facilities and Engineering Division

- John Mir Facilities Design and Construction Manager
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