# Minneapolis Bus Garage

**Construction Update** 

Business Item 2021-20:
Independent Testing Agency Contract 18P430
Amendment #2

Carrie Desmond, Project Manager January 25, 2020





## **Project Description**

- Project Completion 2023
- 11 Acre Site
- North Loop / West of downtown Minneapolis
- 350,000 sq. ft.
- 24 maintenance bays
- 216 bus capacity
- 400+ living wage jobs at full capacity
- 300+ construction jobs



Heywood Campus Map





## **Project History & Schedule**

- Bus Maintenance & Storage Facility
  - Land Acquisition: 2006 2016
  - Demolition & Site Preparation: 2009-2017
  - Design: 2011-2019
  - Construction: 2020-2022
  - Start of Operations: 2023



Rendering Main Building Entrance

## Future Projects

- Solar Array & Battery Storage Design: 2021-2022
- Solar Array & Battery Storage Construction: 2022-2023
- Electric Bus Charging Design: 2019-2022
- Electric Bus Charging Construction: 2023 & Beyond\*



<sup>\*</sup> Funding dependent



# **Construction Highlights: May 2020**

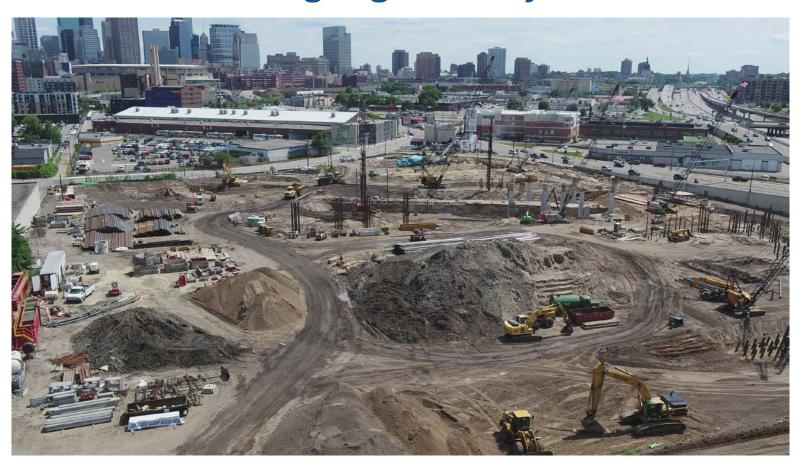


Week 2 of construction





## **Construction Highlights: July 2020**



Earthmoving, pile driving, construction over Bassett Creek stormwater tunnel





## **Construction Highlights: September 2020**



Pile driving, excavation for rainwater storage tank, retaining wall foundation





## **Construction Highlights: November 2020**



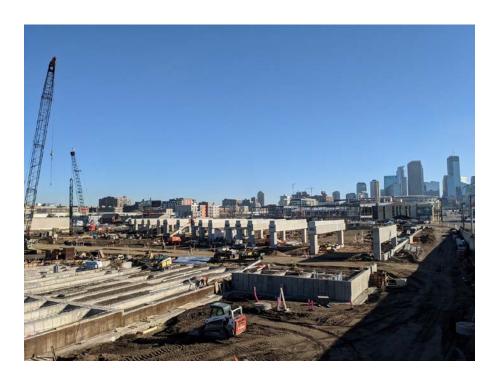


Transfer girders over Bassett Creek stormwater tunnel





## **Construction Highlights: December 2020**





Floor slab forming, geothermal loop installation, steel erection for operations and admin building





## **Construction Highlights: January 2020**





Precast wall panel and column erection for the operations building





#### **Construction Facts**

- 60 Miles of Steel Pile Driven
  - ≈ 5280 60' buses in a row
  - ≈ 7x length of bus fleet
  - ≈ 1.5x length of Northstar
- Dewatering of 22M Gallons
  - ≈ 33 Olympic swimming pools
- Removal of 28,000 Tons Soil
  - ≈ 6 inches covering entire 24acre Heywood Campus
  - ≈ 8 feet covering first floor of new MTPD building



Pile driving construction crew





## **Sustainability Highlights**

- 40,000 Gallon Rainwater Storage Tank
  - Save 2.6M gallons potable water/year for bus wash
- Geothermal System
  - Heat/cool operations building
- Thermal Wall Paneling
  - Preheats outside air in winter
- LED Lighting
- 2MW Solar Array



40,000 gallon rainwater storage tank (Fall 2020)



Rainwater filtration system for bus wash (Fall 2020)





## **Total Project Budget & Funding**

#### **Budget (millions)**

Land/Site Prep: \$ 11.8

Design/Mgmt: \$ 12.0

Construction: \$ 115.5

Contingency: \$ 7.7

Equipment: \$ 4.5

Future Projects\*: \$ 8.5

Total: \$ 160.0

### **Funding (millions)**

Local Funding: \$82.7

Federal Funding: \$ 76.9

MWMO: \$ 0.4

Total: \$160.0

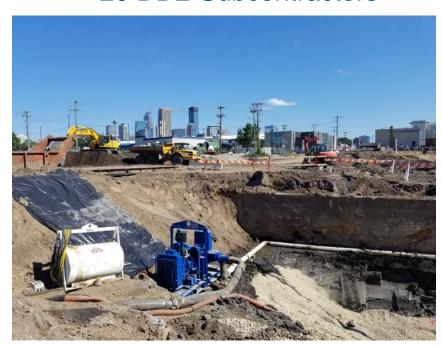


<sup>\*</sup>See slide 3 for future projects



## **DBE Participation**

- Construction Goal: 15%
  - 20 DBE Subcontractors



Dewatering pumps and piping – DBE

- ITL Goal: 10%
  - 1 DBE Subcontractor



DBE pile driving observation



## **Independent Testing Laboratory**

#### **Additional Services**

- Environmental Oversight
  - Dewatering test samples
  - Dewatering permits
- Soils Monitoring
  - Soils sampling
- Pile Driving Oversight
  - Additional rigs to monitor

#### **Cost Control Measures**

- Dewatering
  - On site filtration
  - Storm & sanitary discharge
- Soils Reuse
  - Subgrade in deep excavation
  - Limit hauling off site





## **Proposed Action**

 That the Metropolitan Council authorize the Regional Administrator to execute a contract amendment with Braun Intertec Corporation not to exceed \$315,000 for a total contract value of \$1,325,398.64 for additional Independent Testing Laboratory Services for the new Minneapolis Bus Garage.

