



METRO
Green Line
EXTENSION



Business Item 2023-105

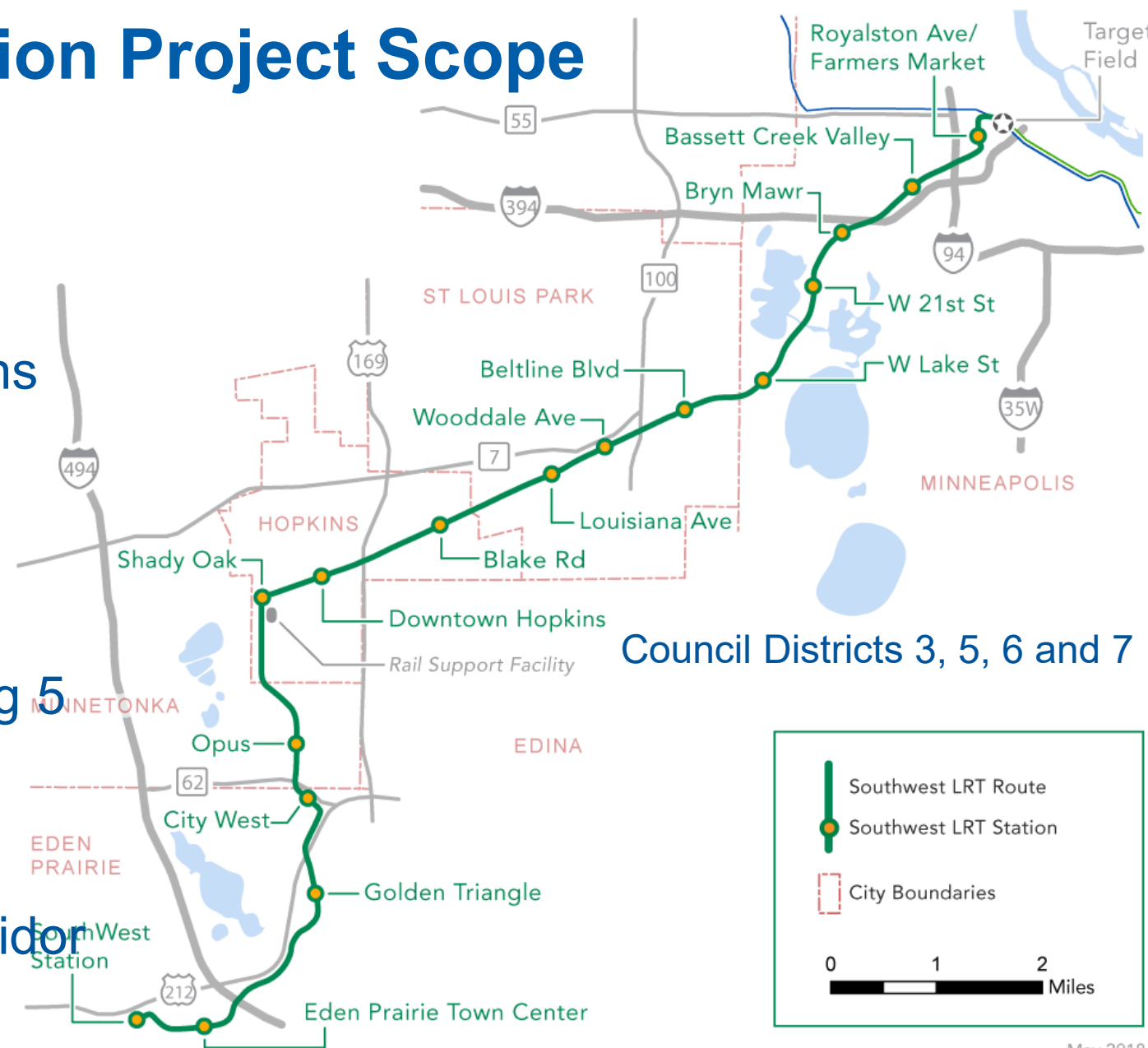
**METRO Green Line Extension
Systems Construction Change Order and
Cumulative Change Order Authority Increase
Contract 17P000**

**Nic Dial, Director of Construction for
Green Line Extension**

**Transportation Committee
Monday, July 10, 2023**

METRO Green Line Extension Project Scope

- 16 new LRT stations
- 44 significant structures:
 - 29 new bridges: LRT, pedestrian, roadway, freight
 - 7 existing bridges with modifications
 - 6 pedestrian tunnels
 - 2 cut and cover LRT tunnels:
 - Highway 62: 582 feet
 - Kenilworth: 2,236 feet
- 15 at-grade LRT crossings; including 5 shared crossings with freight rail
- 121 retaining walls
- LRT track: 14.5 miles
- 7.8 mi shared LRT & freight rail corridor
- Freight rail reconstruction
- Trail reconstruction



Systems Contract Overview

- Contract Award: Sept 18, 2019
- Contractor: Aldridge-Parsons, a Joint Venture
- Contract Value: \$194,411,000
- Change Orders: \$14,592,227.61*



PARSONS

Aldridge: HQ in Libertyville, IL

- Lead contractor for Systems on CCLRT
- Engaged in utility, transportation and commercial/industrial projects across the US with an emphasis on electrical and communications systems

Parsons Corporation: HQ in Centerville, VA

- Technology-focused contractor engaged in defense, intelligence, security and infrastructure engineering
- Experienced in systems integration and project planning

*Executed change orders as of June 21, 2023

Systems Contract Scope

- 20 traction power substations
 - Design, fabricate, install
- Overhead contact system
 - Poles, hangers, cabling
- Tunnel facilities
 - Ventilation, fire suppression, lighting
- Communications
 - Network, voice, paging, cameras
- Wayside signaling system
 - Signals, interlockings, crossings
- Testing and Integration



Negotiate and Execute Change Order with APJV

- During the Contractor's final phase of TPSS design, the Contractor discovered that the capacity of the manholes originally specified for TPSS sites was inadequate to handle the required cabling and conduits.
- Due to right of way constraints, it was determined that modifying the TPSS foundation design to include full basements acting as cable vaults would be the most economical solution.
- This change order will modify the foundation design at 18 of the 19 substations for a total cost of \$4,524,243.46.

Traction Power Substations in Local Storage



TPSS Basement Foundation



Cumulative Change Order Authority

- Council Procurement Procedure 14-1a Section 2.1.2.23 provides 10% cumulative change order authority on construction contracts without further authorization by the Council.
- Staff is requesting that the Council authorize an additional 7.48% cumulative change order authority for the APJV Contract. The request would result in the following amounts as shown in the table below:

Description	Amount	Change Order Authorization
Contract 17P000 original contract value	\$194,411,000.00	--
Currently authorized cumulative change order Authority	\$19,441,100.00	10.00%
Value of change orders executed as of June 21, 2023	\$14,592,227.61	7.51%
Current remaining authority	\$4,848,872.39	2.49%
Additional change order authority requested with this business item	\$14,542,546.70	7.48%
Requested cumulative change order authority	\$33,983,646.70	17.48%

Proposed Action

- That the Metropolitan Council authorize the Regional Administrator through the Green Line Extension Council's Authorized Representative to negotiate and execute a change order for Contract 17P000 with Aldridge – Parsons, a Joint Venture (APJV) in an amount not to exceed \$4,524,243.46 for work related to the Traction Power Substation (TPSS) Foundation Design Modification;
- And that the Council authorize an additional 7.48% (\$14.5 million) to the current 10% (\$19.4 million) cumulative change authority for Contract 17P000 with APJV, resulting in 17.48% (\$34.0 million) cumulative change order authority.

MORE INFORMATION

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