

JOINT MEETING

DART Opportunities Luncheon



FEATURING: **DART**

WHEN:

April 3, 2024
11am - 1:15pm

Networking:
11am - 11:30am

WHERE:

Vouv Meeting & Event Space
4445 Sigma Road
Dallas, TX 75244

SPECIAL GUEST SPEAKERS:



Darryl Spencer
Vice President of
Engineering &
Construction



Dee Leggett
Executive Vice
President/Chief
Development Officer



Sherre Holmes
Senior
Manager
Procurement

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Platinum



Gold



Silver



Presenters Panel

- **Speakers Panel:**

- ❖ **Dee Leggett – Executive Vice President / Chief Development Officer,**
Dallas Area Rapid Transit (DART)
- ❖ **Darryl E. Spencer, P.E. – Vice President,**
Engineering & Technical Services,
Dallas Area Rapid Transit (DART)
- ❖ **Sherre Holmes – Sr. Manager, Procurement,**
Dallas Area Rapid Transit (DART)



Today's Discussion



Why Are We Here and Why This Matters?



System Modernization Program Approach



PSP 2.0 - Procurement Overview



DART Strategic Vision

Introduction to the Strategic Plan Effort



DART is in the process of developing a new Strategic Plan to guide our agency into the future.

This effort comes at the perfect time as we celebrate 40 years of success and outline our first steps toward the next 40 years.



The Strategic Plan will help us move from Point A to Point B - our future vision.

This vision is aspirational, exciting, and full of opportunities for us all to contribute towards a better future.



The main theme of our journey to Point B is to move from being a service people sometimes use, to being valued as a key regional asset that helps people and cities thrive.

As we develop the Strategic Plan, we are focused on goals, ideas, and initiatives to move us towards Point B – and you will be a big part of it. Stay tuned for more information this fall.



We are here

Our Destination

Six Pillars of Strategic Plan



EMPOWERED AGENCY

Build a nimble organization that can act quickly and effectively by streamlining processes and empowering employees.



QUALITY SERVICE

Deliver a quality customer experience defined by strong rider advocacy and built on professional pride and continuous improvement.



FANTASTIC SPACES

Create fantastic spaces that add value to our communities, enhance the rider experience, and foster a sustainable and thriving region.



CULTURE OF CONTRIBUTION

Create a culture that aligns roles and responsibilities with the vision, deepens organizational trust, and encourages growth.



SEAMLESS MOBILITY

Integrate mobility options to create a seamless travel experience defined by frequency and reliability to position DART as first in mind.



STRATEGIC RELATIONSHIPS

Position DART as a collaborative leader and recognized regional economic and mobility asset.



DART System Modernization

System Modernization Program Core Elements



VEHICLES

Replace up to 95 oldest LRVs, over 500 Buses, and some TRE commuter rail vehicles.



UNIFIED SIGNAL SYSTEM

Modernize signal systems on the oldest lines to maximize safety, communications, reliability, and network capacity.



RESILIENCY

Enhance resiliency of operations during extreme weather events.



STATIONS & PASSENGER FACILITIES

Raise the remaining platforms to support universal level boarding along with additional improvements to other passenger facilities.



OPERATING FACILITIES

Modify operating facilities to support new vehicle maintenance activities and future proof for technology advancements.

DART Design Goals

➔ **Customer Experience**

Focus on improving the customer experience – Security, Cleanliness, Reliability, & Amenities

➔ **State of Good Repair**

Continued stewardship of system assets – Operability, Maintainability, Reliability, & Resiliency

➔ **Modernization**

Enhance mobility options – Level Boarding, Unified Signal System, Facility Improvements, System Resiliency, Capacity and Efficiency



Opportunities to Optimize and Expedite Modernizations

Additional Studies that might influence Program:

DART Strategic Plan

City / DART Area Plans

2045 Transit System Plan

Sustainability Plan

Zero Emissions Fleet Transition Plan

HVAC Facility Assessment

State of Good Repair Assessment and Management Strategy

DART Security Plan / Crime Prevention Through Environmental Design (CPTED)

Bus Operating Facilities Master Plan

Mobility+ Bus Corridor & Mobility Hub Guidelines Planning

Vulnerability Assessment and Resiliency Plan (grant application submitted)

New Light Rail Fleet Amenities

Upgraded Lighting, Passenger Doors, Cleanliness features

Accent LED lighting around windows, rails and signage to increase visibility



Pre-lit doors with LED lighting and safety messaging

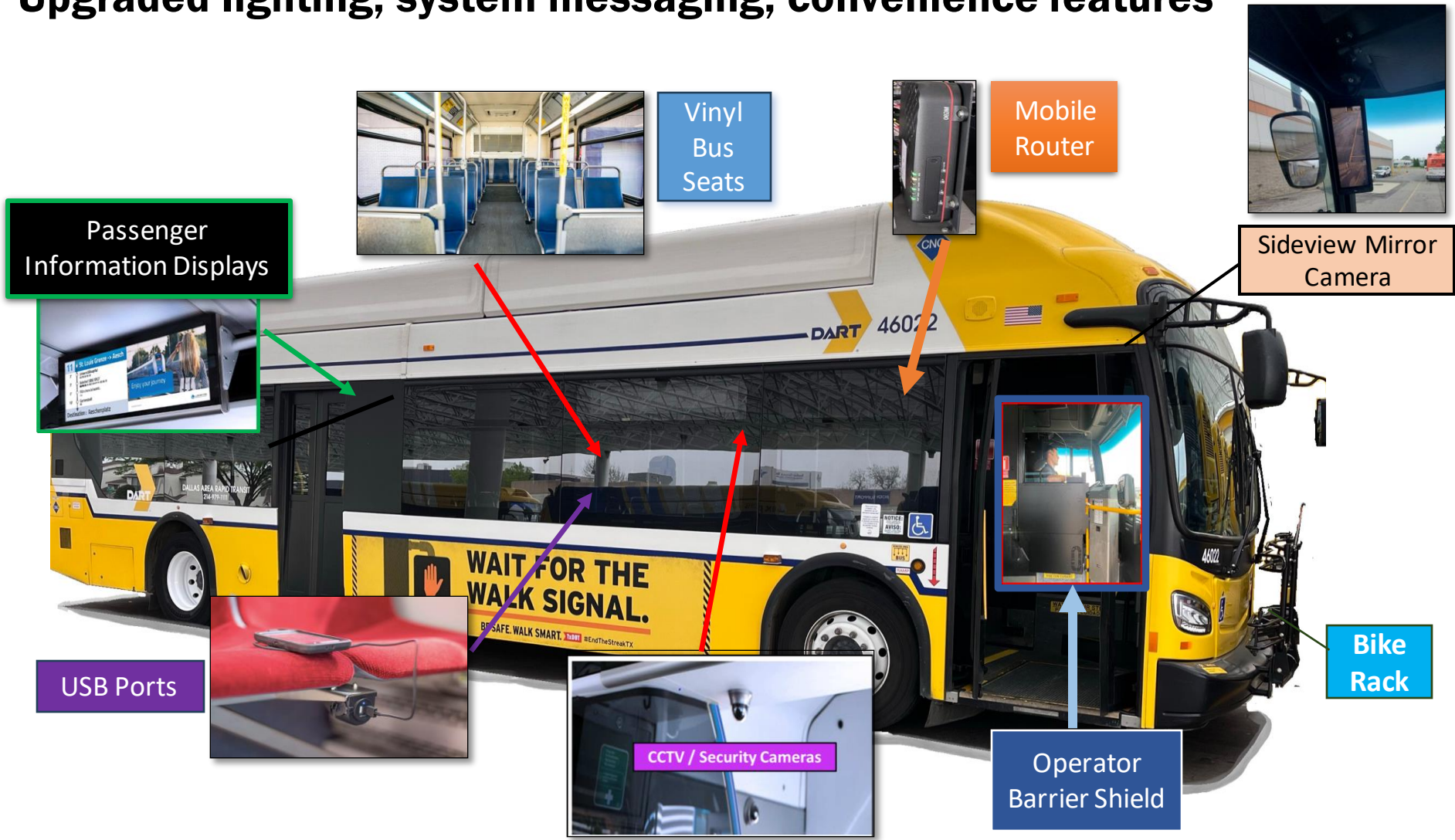


Larger receptacles for trash and recycling that are easier for riders to find and use

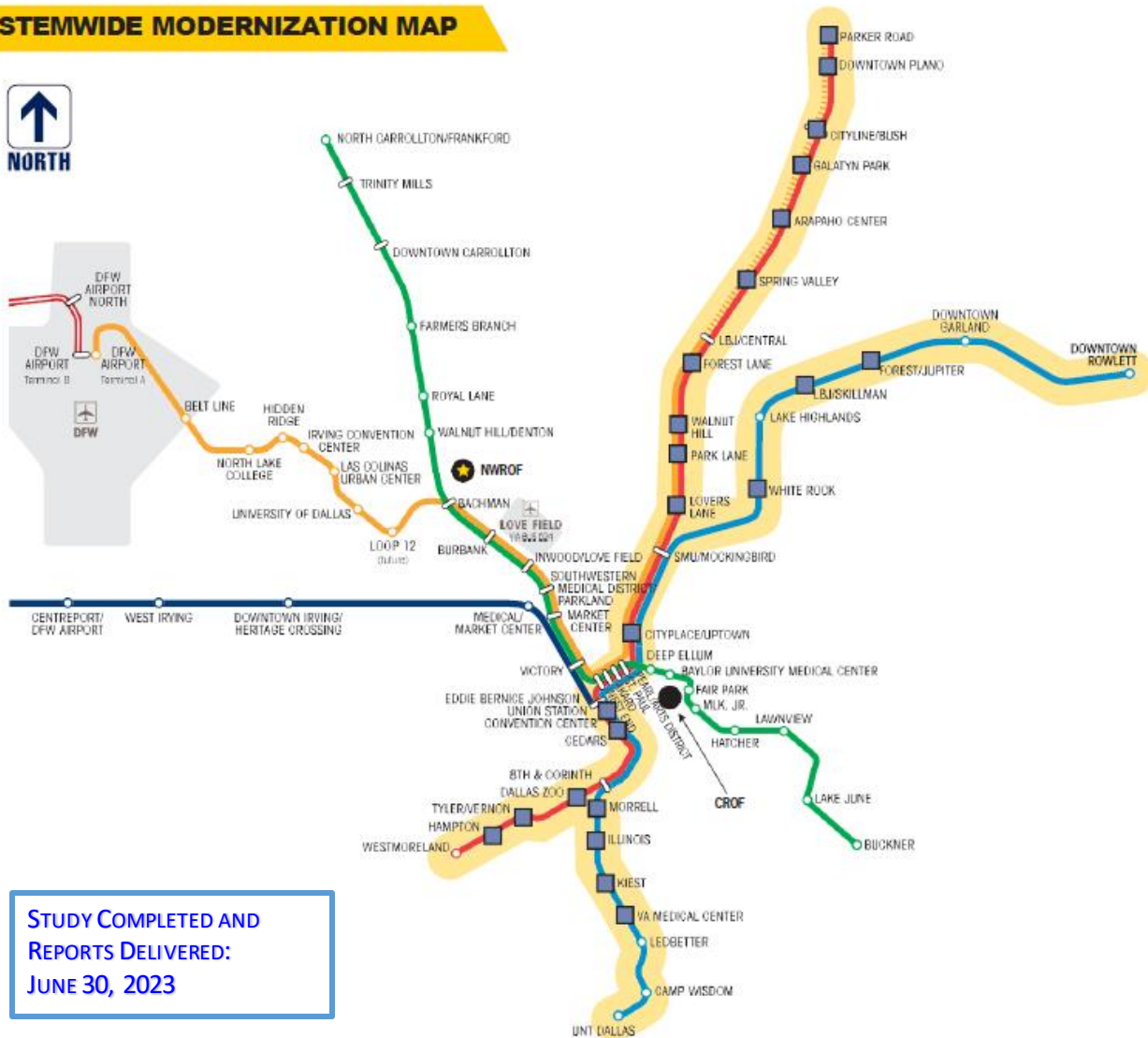


New Bus Fleet Amenities

Upgraded lighting, system messaging, convenience features



SYSTEMWIDE MODERNIZATION MAP



STUDY COMPLETED AND
REPORTS DELIVERED:
JUNE 30, 2023

- Signal System Upgrade
- LRT Station Platforms to be Raised
- LRT Blue Line
- LRT Green Line
- LRT Orange Line
- LRT Red Line
- Trinity Railway Express
- LRT Operating Facility
- ★ CDCC



Unified Signal System

UNIFIED SIGNAL SYSTEM
Modernize signal systems on the oldest lines to maximize safety, communications, reliability, and network capacity.

Weatherization Initiatives

Issue: Ice and/or snow accumulation on bottom of the contact wire, resulting in loss on conductivity to LRV and system slowdown or shutdown.



Solutions:

- 1) Contact Wire Heater
 - Mockingbird Depression & CROF Yard Lead
- 2) Anti-icing Paste/Gel
 - DART is procuring 2 rail vehicles w/on-board applicators
- 3) Shrouds (Ice Caps) for Contact Wire Strategic locations only



Extreme Heat – Overhead Catenary Wire

Issue: Extreme heat causes the conductors of the overhead contact system to expand to the point where the counterweights bottom out on the lower temperature limit plate. This effect causes conductors to sag, resulting in reduced speeds. This creates 10- to 15-minute delays in DART's travel times. System speed reductions were imposed to 40-mph systemwide in 2023.

In worst-case scenarios, catenary entanglements occur with the LRV pantograph result in extended service disruptions.

Number of Destructive Interfaces in 2023: 35



Solution: Replace counterweights with automatic tensioning device system wide (511 units), eliminating regular adjustments.

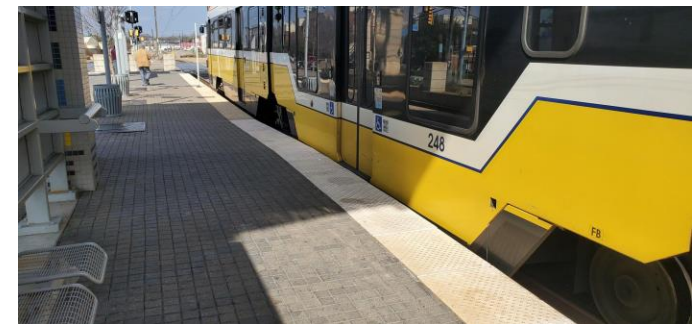
New LRV Station Amenities

Optimize and improve existing features

- 23 Red and Blue Line Stations to be raised by 7.5 inches (18 at grade, 4 aerial, 1 subway station)
- This will allow for universal accessibility at all doors on new vehicles
- Current vehicles will continue to be accessible via the low-floor section of each vehicle until all LRVs are replaced



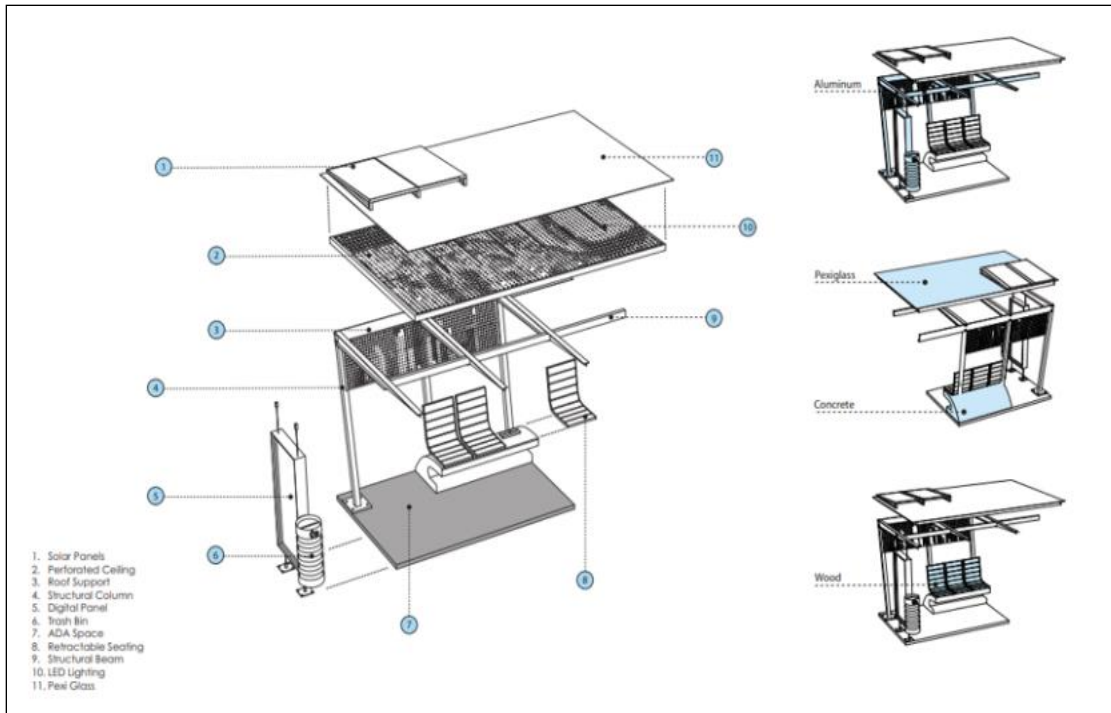
Fully Raised Platform



Mini-Level Boarding Area

New Bus Stop Amenities

Optimize and improve existing features



Improve lighting, visibility and comfort level with next generation bus shelter

New Facility Amenities

Bus & Rail Maintenance Facilities, etc.



Rail Maintenance Facilities Mods

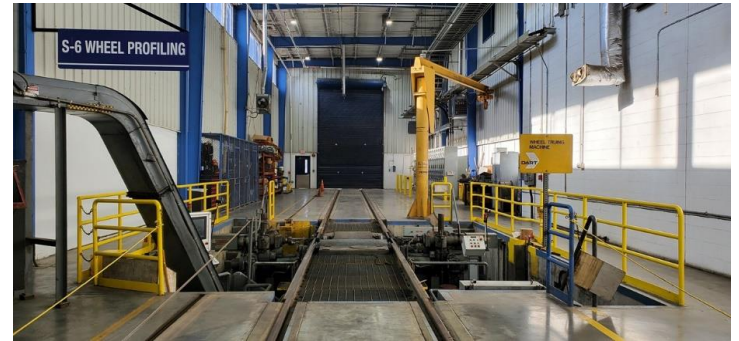
Modifications to both Central and Northwest
Rail Operating Facilities



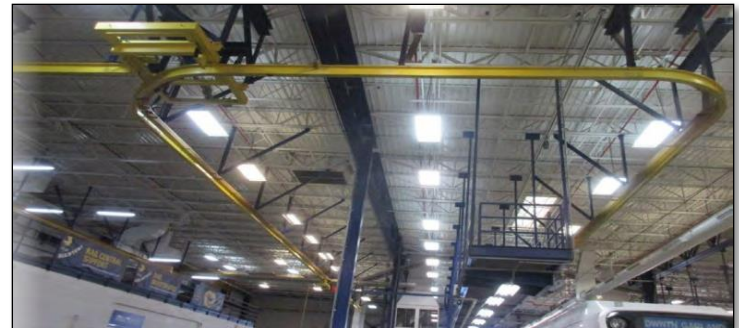
General platform and fall protection view



Body Lifts

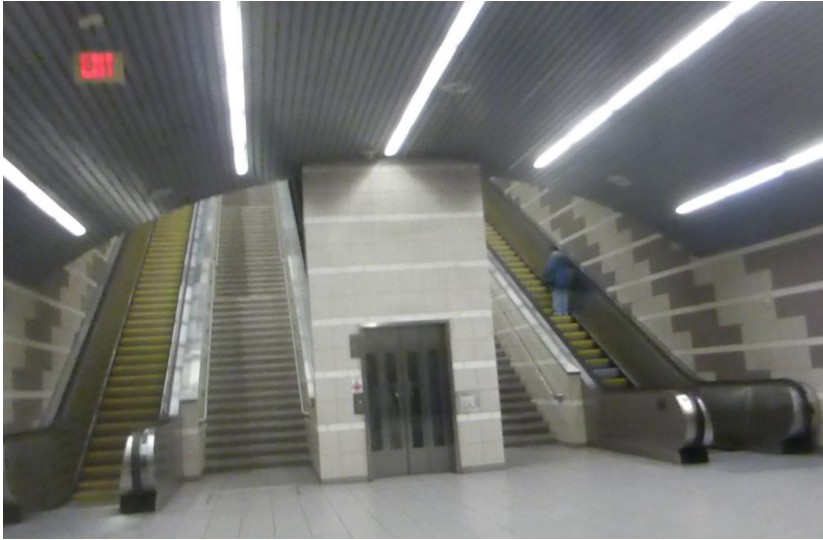


Wheel Profiling



Monorail Crane

CityPlace Station Modernization Update



A photograph of a city street featuring a tram. The tram is blue and yellow, with 'LED BETTER' on its destination sign and the number '171' on its side. The tram is positioned on tracks in the middle of the street. In the background, there are modern buildings, including one with a large '1505' sign. A yellow rectangular box is superimposed over the tram, containing the text 'Future Procurements'.

Future Procurements

Professional Services Pool Contract C-2047867

- Worked to pre-qualify 35 firms to meet various contract services DART utilizes with regular frequency, including:
 - Civil/ Structural/ Environmental/ Surveying
 - Architectural/ Electrical and Mechanical
 - ITS/ Traffic Engineering
 - Systems Engineering
 - Miscellaneous Support
- 65 Contracts Awarded

Future Direction for Professional Services

- Focus on Multi-Year Task Order Based Assignments
- Reduce Number of Contracts
- Rotate Small Dollar Task Orders (\leq \$250K)
- Minimize the Use of Seconded Staff to Allow Flexibility in Firm Resource Management
- Decrease Procurement Timeline
- Decrease Expenses Incurred to 'Chase Work'
- Increase Competition for Larger Opportunities (\geq \$7M)
- Small Business Carve Outs in Multiple Awards Procurements

Future Direction for Professional Services

Future Direction	Current PSP Category	Number of Future Awards
General Engineering, Architectural and Design Services (GEADS)	Groups 1, 2, & 3	Multiple Awards (incl 2 SBEs)
Third Party Project Support Services (TPPS)*	All Groups	Single Award
Construction Management Support (CMS)	Group 5	Multiple Awards (incl 2 SBEs)
Systems Engineering and Design Services (SEDS)	Group 4	Single Award
Real Estate Management Support (REMS)	Group 5	Single Award
Project Controls Support (PCS)	Group 5	Single Award
System Safety Certification (SSC)	Group 5	Single Award
Management and Project Support (MAPS)	Group 5	Multiple Awards (incl 2 SBEs)

Successor Contract Timeline

Contract	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29
PSP Active	Orange	Orange	Orange	Orange	Orange	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
After PSP:	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
• Due Diligence	Light Blue	Light Blue	Light Blue	Yellow	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
• Solicitation	Light Blue	Light Blue	Light Blue	Light Blue	Green	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
• Active	Light Blue	Light Blue	Light Blue	Light Blue	Orange	Orange	Orange	Orange	Orange	Orange

Issued **3/27/2024** Third Party Project Support Services

Issued 3Q FY 24
 General Engineering, Architectural and Design Services
 Construction Management Support
 Systems Engineering and Design
 Real Estate Management Support
 Project Controls Support
 System Safety Certification
 Management and Project Support



Successor Contract Timeline

- Mar/Apr: Issue Request for Proposal
- April/May : Proposals Due
- May/July: Evaluations and Negotiations Complete
- August: Award Recommendation to the Board
- October: Award Contract

What can you do now?

- Network to develop Teams
- Register your firm in Bonfire at <https://dart.bonfirehub.com/>

Upcoming Opportunities

- Various State of Good Repair Remediation Projects
- Design HVAC Systems within Bus & Rail Maintenance Facilities
- Crime Prevention Through Environmental Design (CPTED) Recommendations will enhance DART security
- Mobility Hub Guidelines and Selected Projects
- Sustainability and Resiliency Projects
- Corrosion Control Program Refinement & Training
- Removal of Center Crosswalks at LRV Stations
- Phase 2 Cotton Belt Hike and Bike Trail
- High-Capacity Bus Corridor Treatments
- Loop 12 Infill Station Design on Orange Line

Thank You!



DART.org