

2017 MAX Program

Red & Blue Line Platform Extension

John Rhone Vice President, Capital Design & Construction June 22, 2017

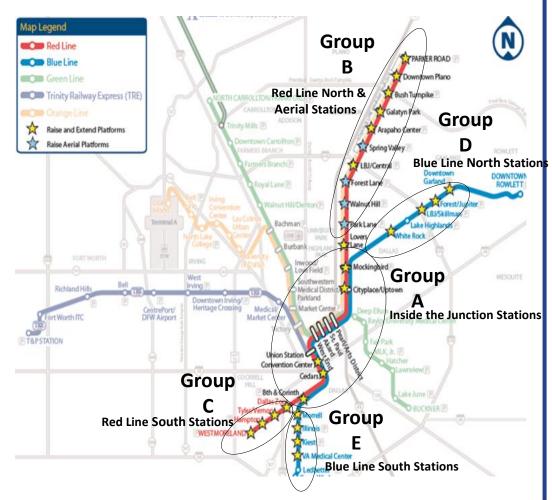
Project Goals and Objectives

- Increase capacity: Move more passengers by 2021 with ability to run three car train
- Minimize impact to customers
- Engage multiple
 Architectural/Engineering/Contracting
 Community to provide opportunities to small
 and/or disadvantaged businesses



Project Narrative

- The project will modify platforms at 28 rail stations along the Red and Blue light rail lines to accommodate 3car trains. Modifications include extending platforms and/or raising portions of the platform to permit level boarding. This modification will increase the carrying capacity of the system and enhance the core capacity of the network.
- The construction phase is anticipated to be complete in 2021 with final contract closeouts in 2nd quarter 2022.





Project Description

Increase platform length by 100 ft. at 28 stations

CROF Cleaning platform

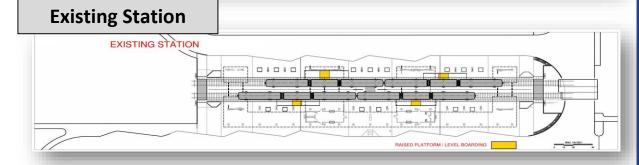
Westmoreland track and roadway

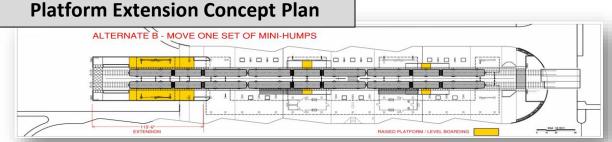


Platform Extensions

- Allow 3-car trains at each station
- Increase passenger capacity by 33%
- Operational Flexibility
- Minimize passenger disruption







- Mini-humps are rebuilt on one platform to align with those on the other
- A future construction phase is required prior to fleet replacement to achieve full, level boarding

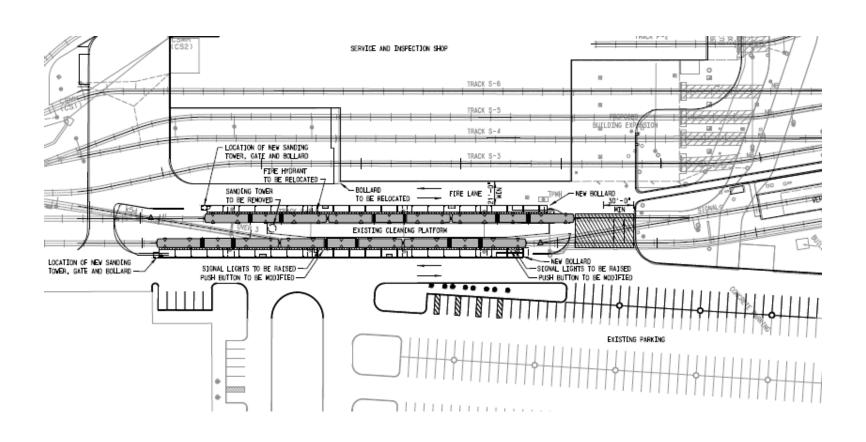
 MULTI-AGENCY

Related Platform Extensions Issues

- Existing CROF Cleaning Platform only accommodates 2-car trains: Included in Final 30% Design
- Westmoreland Tail Track only accommodates 2-car trains: Included in Final 30% Design



CROF Cleaning Platform





Platform Extensions

CROF Cleaning Platform Scope of Work:

- Add new cleaning platforms (2) on both sides of existing cleaning platform.
- New Platform will long enough to accommodate 3-car trains.
- Canopies are included in the platform plans.
- Cleaning platforms design is subject to Value Engineering Recommendations



Program of Interrelated Projects Platform Extensions

Schedule Overview

- FTA acknowledgment of PD completion and approval to postpone
 Request to Enter Engineering received October 6, 2016
- Request to Enter Engineering January 2017
- Anticipated approval to Enter Engineering July 2017
- Anticipated FFGA executed December 2018
- Anticipated Revenue Service 2021



Station Concept Review

CONCEPT TYPES

| Concept 2 Si Concept 3 Ae Concept 4 Ae Concept 5 Co Concept 6 M Concept 7A Ci | ide Platform ide Platform erial Platform erial Platform enter Platform ockingbird ity Place ity Place |
|---|---|
|---|---|

Relocate all mini-humps & extend platform Relocate mini-humps on one side of platform & extend platform Relocate mini-humps & add one mini-hump with elevator mods Relocate mini-humps & add one mini-hump Relocate all mini-humps & extend platform Relocate mini-humps & add single humps each side Maintain mini-humps & extend platform at level boarding elevation Maintain mini-humps & extend platform at existing elevation, add one mini-hump at each platform

Concept 1 Arapaho

Lovers Lane White Rock Dallas Zoo

Concept 2 Hampton Illnos LBJ/Skillman 8th & Corinth Cedars LBJ/Central Galatyn Park Bush Turnpike Downtown Plano Tyler/Vernon Morrell Convention Center

Concept 3 Park Lane Forest lane Spring Valley Concept 4 Walnut Hill Concept 5 Parker Road Forest/Jupiter Downtown Garland VA Medical Center Kiest Westmoreland

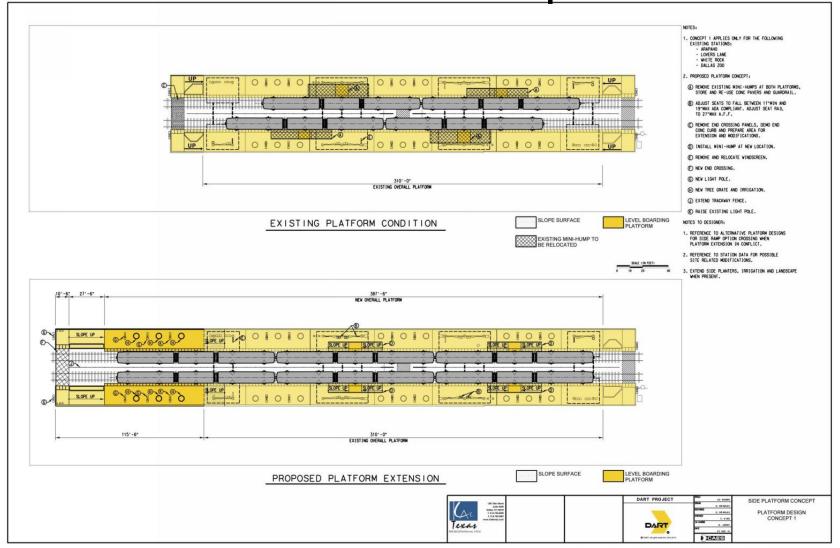
Concept 6 Mockingbird Concept 7A & 7B City Place



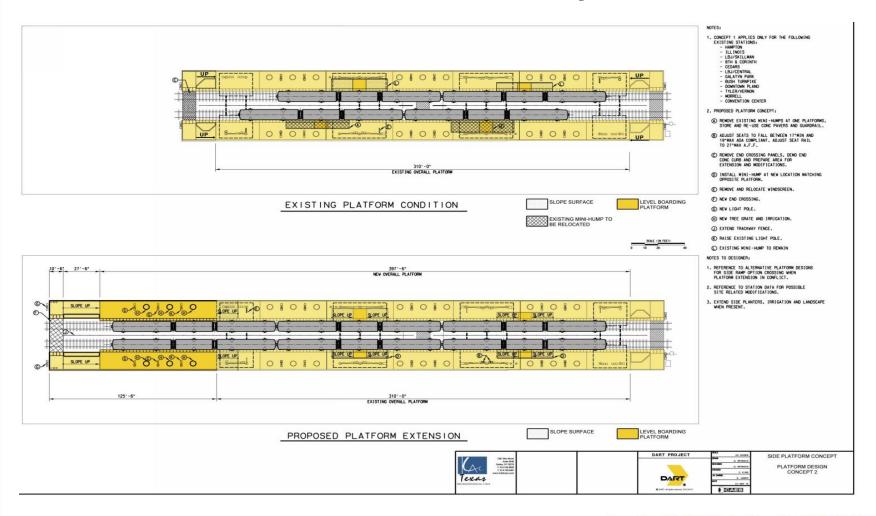
Station Concept Review

- The following is a review of all 7 concepts in the project. The following items will be addressed at each concept:
- Demolition of existing humps
- New location of humps, platform extension and canopy addition
- Site adaptations

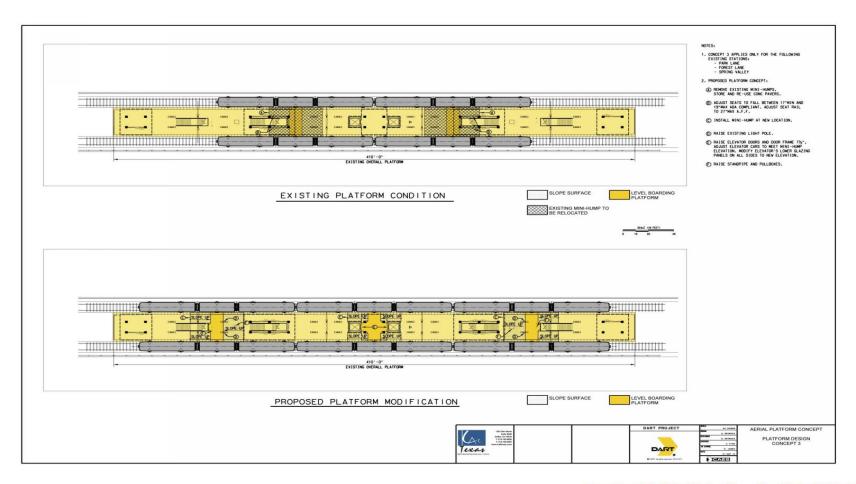




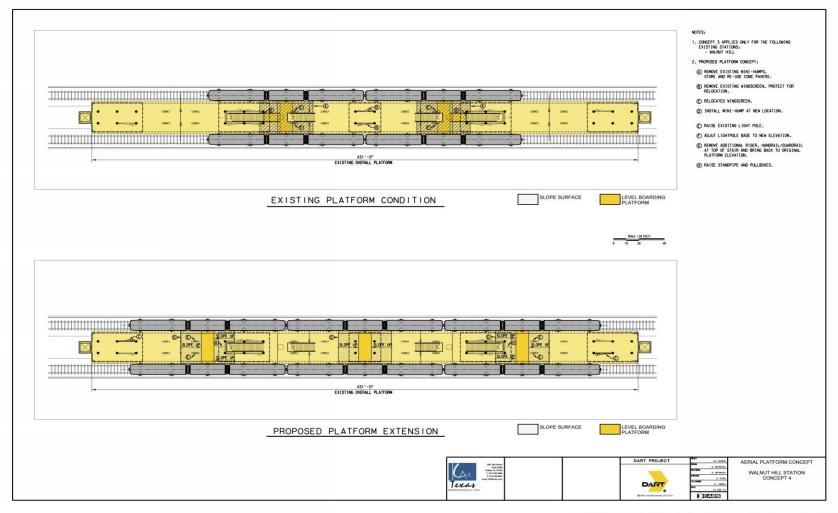




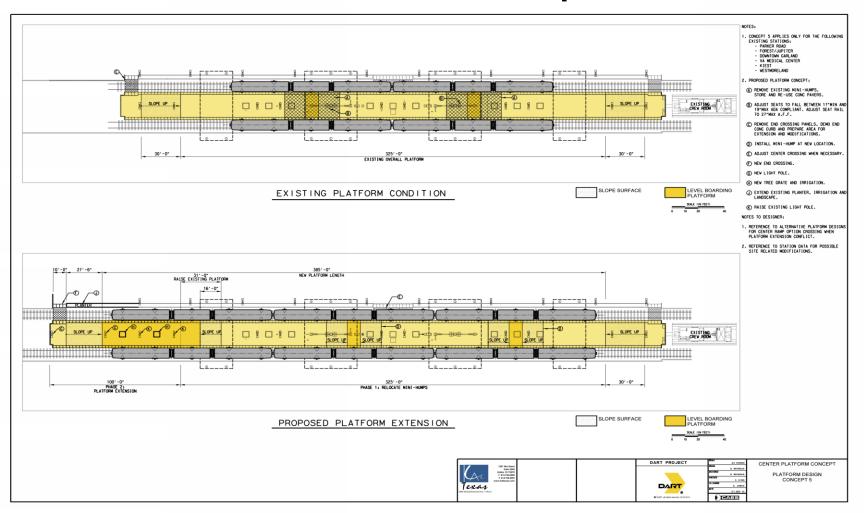




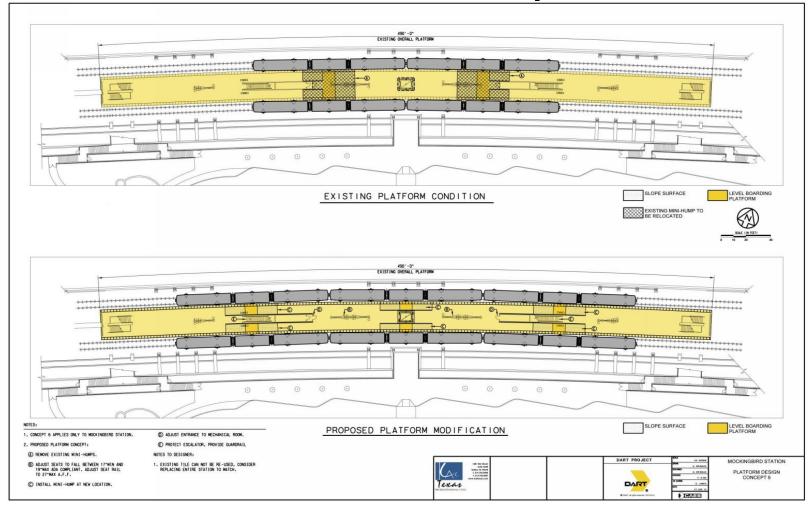




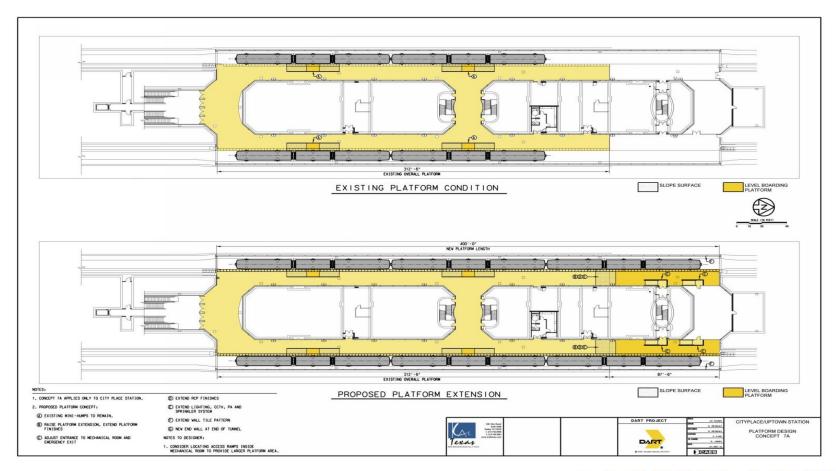














Westmoreland Tail Track Modified Concept



- Extend Tail Tracks to Westmoreland
- Close Driveway A
- Modify Driveway B
 - Extend one-way section east to new driveway D
- Add new driveway D
- Modify Intersection E
 - Add traffic signal



Westmoreland Station Tail Track and Driveway

- DART is currently extending its LRT Station Platforms to accommodate 3car trains.
- Due to constraints to the east the Westmoreland platform must be extended to the west
- The current tail track only accommodates 2-car trains. It must also be extended to accommodate 3-car trains.
- DART must close a circulation driveway to construct the Tail Track Extension
- DART proposes to add a new drive south to Glenfield Avenue to replace this circulation
- Two new property acquisitions are required to construct the new driveway



DART Background

- Growth: North Texas is growing rapidly and DART and North Texas public transportations allows us to efficiently and numbly accommodate a larger population.
- **Future:** Public transportation provides mobility around North Texas now and will allow for flexibility as our region continues to grow.
- Collaboration: North Texas public transportation is embedded into how our region operates. Therefore, DART is committed to being a good neighbor and working with stakeholders and the public.
- **Economic Development:** Here in North Texas, public transportation is driving our local economy.



Questions?

