





DART

“It’s All Connected”

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Rail Program Development

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AGENDA

- DART System Overview
- Green Line Expansion (CM/GC)
- Orange Line Expansion(DB)
- Blue Line Expansion(DB)
- Cotton Belt (PPP)
- Rail Project Life Cycle
- Lessons Learned

Light Rail Expansion through 2018

Northwest Corridor
2010

Rowlett Corridor
2012

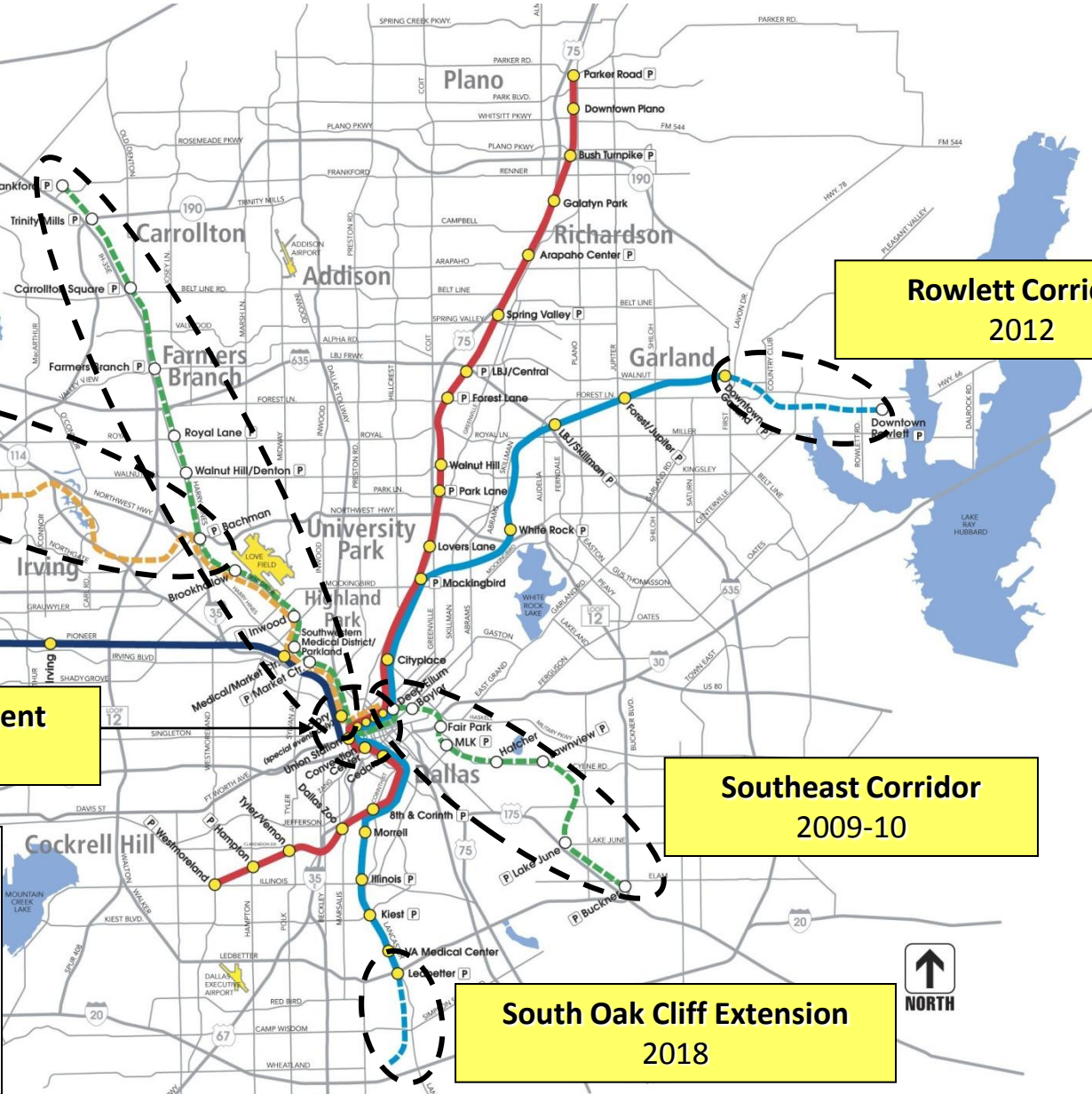
Irving/DFW Corridor
2011-2013

2nd Downtown Alignment
2016

Southeast Corridor
2009-10

South Oak Cliff Extension
2018

-  Light Rail Blue Line & Station (Existing)
-  Light Rail Red Line & Station (Existing)
-  Trinity Railway Express **TRE** Commuter Rail & Station (Existing)
-  Future Irving/DFW Light Rail Line
-  Future NW/SE Light Rail Line
-  Future Light Rail Expansion



Green Line Construction

- Daily average 1,475 workers
 - 95% local residents
- 3 major contracts
 - Total value - \$1 Billion
 - Paid to date - \$800 Million (through November 30, 2009)
 - 80% complete to date (through November 30, 2009)
- Safety Rates
 - Workforce hours to date – 9,890,209
 - DART Recordable 2.02 (National 5.4)
 - DART Cost Measurement Goal \$.35
 - Actual cost to date is \$0.17



Construction Safety & Security Program

DART Employees

- Photo “ID” Badge
 - 4-Hour Construction Training
- Visitor Badge(s)
 - Escort Required
 - Non-Escort Required

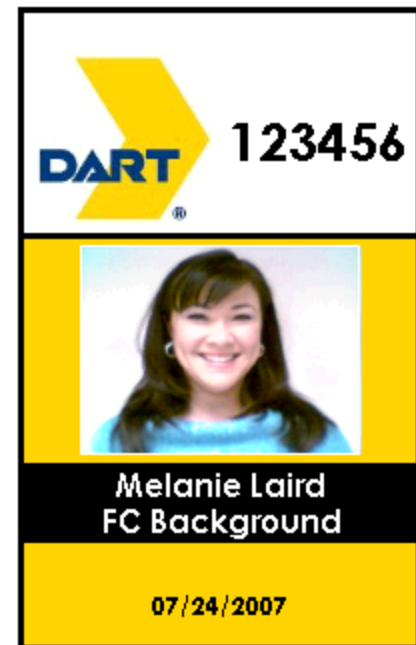
Contractor Personnel

- Photo “ID” Badge
 - Drug Test
 - Criminal Background
 - Social Security – Verification
 - 4-Hour Construction Training
 - Visitor Badge(s)

Dart Employee Badge



Dart Subcontractor Badge



Alternative Project Delivery Systems

Use of CM/GC's

- Early Involvement of Contractor to Assist in Validation of Costs and Schedule
- Collaboration With all Members of the Project Team
- Reduction of Changes During Construction



Orange Line Design-Build (Irving 1 & 2)



- Contractor: KSWRP
Kiewit, Stacy & Witbeck, Reyes, Parsons
- Contract Value: \$430M
- Design:
 - Majority of Design Complete
 - Systems Design Underway
- Construction:
 - Ready to Cross Levee with Trinity River Bridge
 - Site Prep for Station Construction
 - Excavation Underway in I-2

Blue Line Design-Build (Rowlett 1)




DART BLUE LINE | THE NEXT WAVE

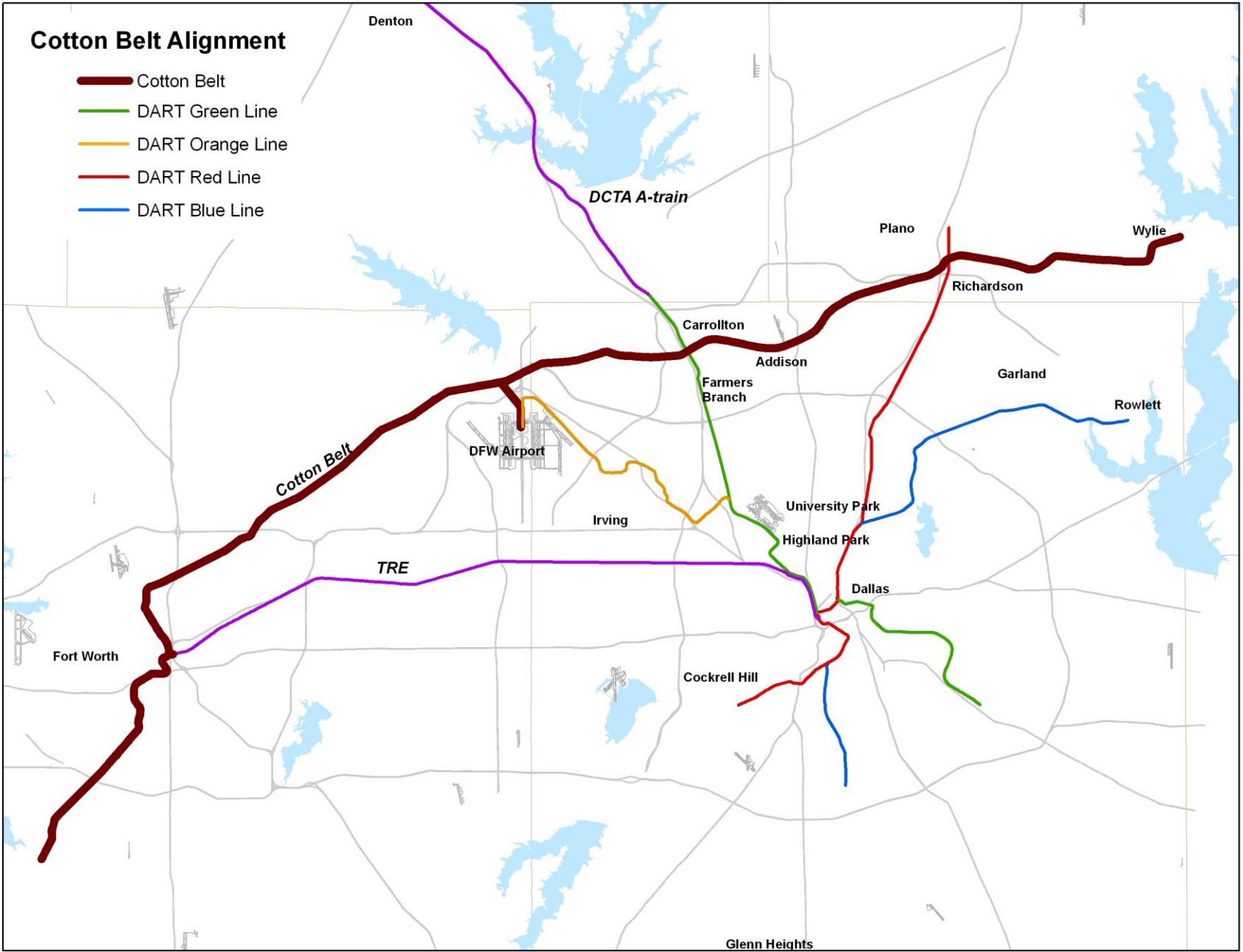
- Contractor: Austin Bridge & Road
- Contract Value: \$187M
- Design:
 - Art & Design Nearing Completion
 - Focus on Design of Bridge Structure
 - Ongoing Utility & Drainage Efforts
- Construction:
 - Clearing Efforts Completed
 - Haul Road Installed
 - Shaft Drilling at Rowlett Creek

Cotton Belt Project

- Project Objective Enhance Regional Rail
- Provide Connections to:
 - Red Line in Plano/Richardson
 - Green Line in Carrollton and DCTA A-train
 - Orange Line and The “T “ at DFW Airport
 - TRE in Ft Worth

Cotton Belt Alignment

-  Cotton Belt
-  DART Green Line
-  DART Orange Line
-  DART Red Line
-  DART Blue Line



DART Vehicle Concept

- Diesel Powered Multiple Unit (DMU)
- Meets Board Commitments to Dallas
- Meets DART Policy for Vehicle on Cotton Belt Corridor
- Complies with Federal Railroad Administration (FRA) Requirements
- Potential Regional and National Vehicle



Rail Project Lifecycle

Rail Project Implementation Lifecycle Summary - Federally Funded

Tuesday, August 19, 2008

CPRF to add project to Financial Plan & System Plan
Includes documented:

- Scope
- Budget
- Schedule
- Risk Categories

Displayed on Project Portal

PROJECT COST/ESTIMATING CONSIDERATIONS

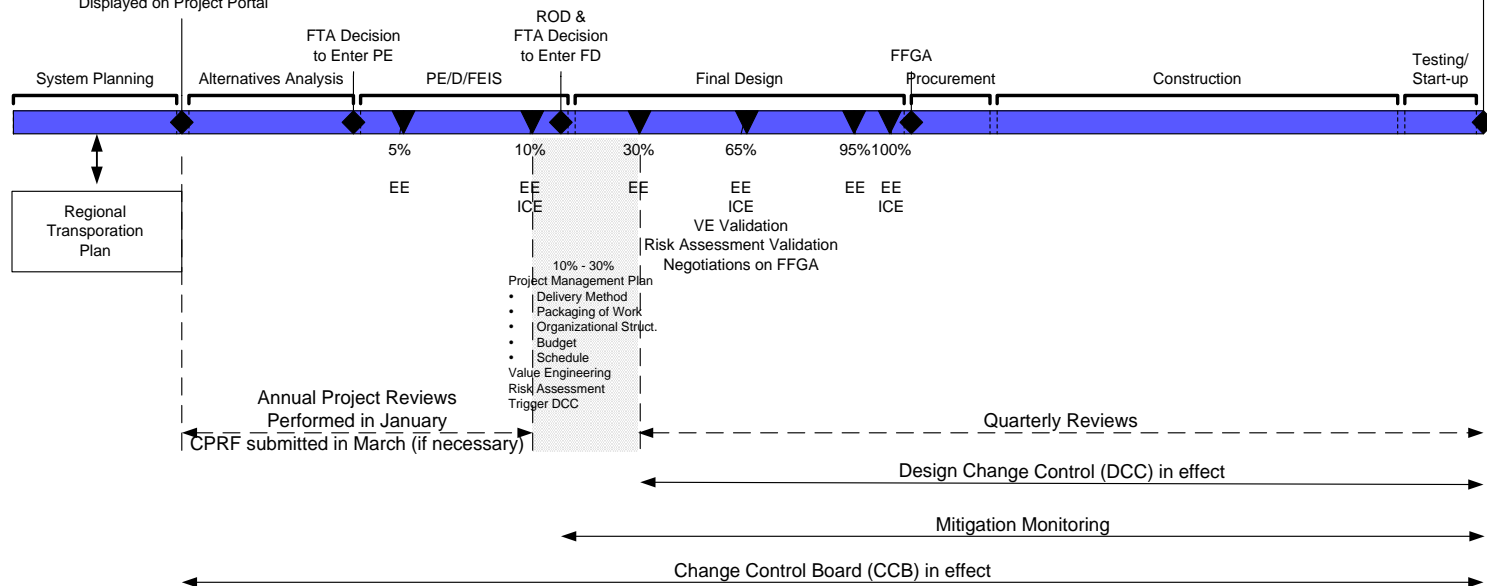
Design Contingency
• Function of design/estimating uncertainties

Construction Contingency
• To fund Contract Changes
• Governed by CCB

Program/Project Contingency
• Function of Risks

Escalation

Turn-over to Operations





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