

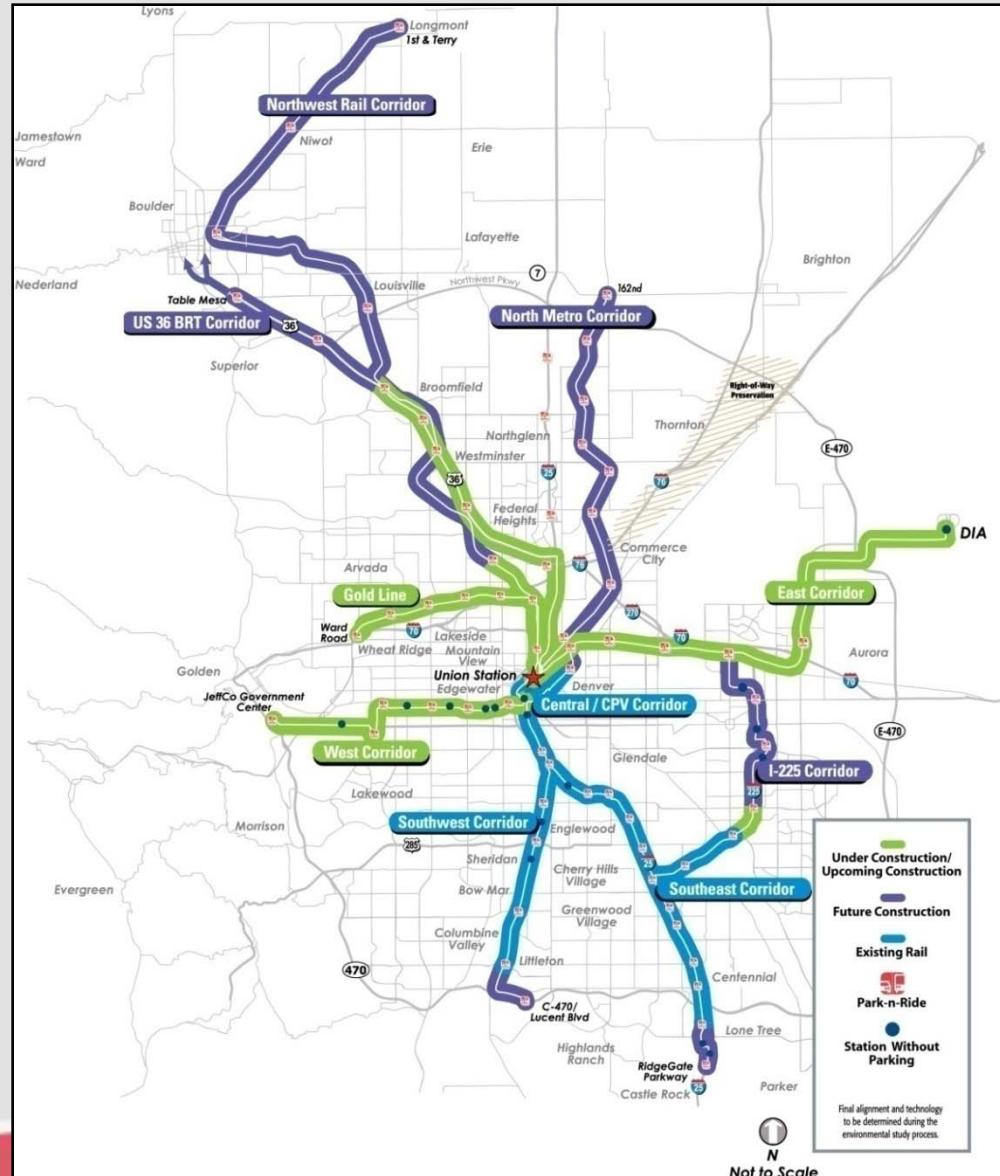
West Rail Line Update

FTA Presentation

August 15, 2011

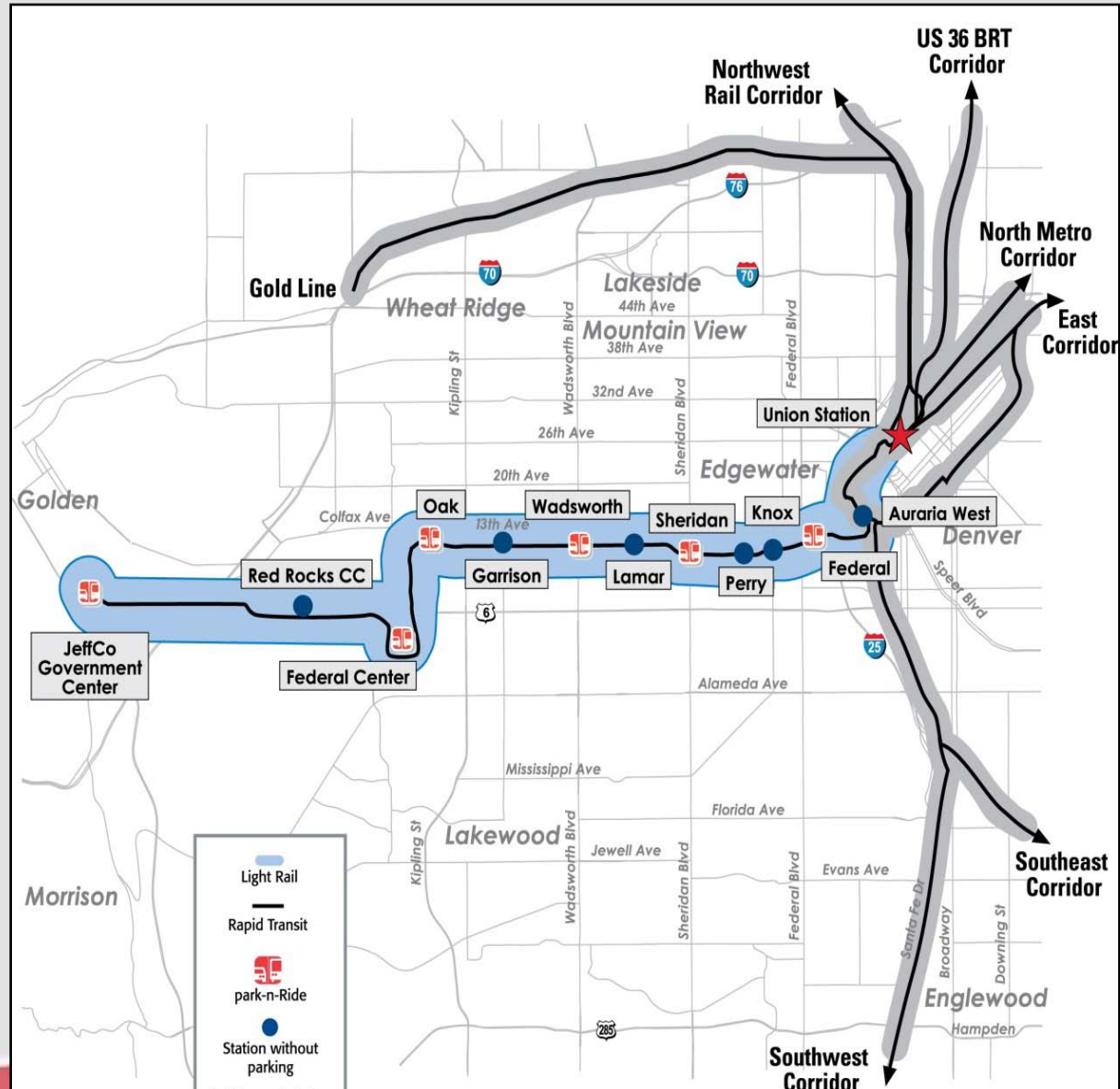
The RTD FasTracks Plan

- 122 miles of new light rail and commuter rail
- 18 miles of Bus Rapid Transit (BRT) service
- 31 new park-n-Rides; more than 21,000 new spaces
- Enhanced Bus Network & Transit Hubs (FastConnects)
- Redevelopment of Denver Union Station



West Rail Line

- 12.1 miles of light rail
- 12 Stations
- 5,605 parking spaces
- Daily Ridership
19,300 – 2013
29,700 – 2030
- Train Frequency
Auraria – Fed Center
 - 5 min (peak)
 - 15 min (off peak)
 Fed Center to Jeffco
 - 15 min
- Project Budget-\$707M
- Opening May 2013



West Rail Economic Impacts

Through June 2011, RTD West Corridor added more than \$200 million to the local economy.

✓DTCG Wages Paid	\$20.6 million
✓Equipment, services and supplies	\$58.2 million
✓Subcontractors	\$130.1 million

- At the height of construction, employee numbers reached more than 550 people. More than 80% are hired locally.
- DTCG is directly conducting business with 832 businesses/vendors
90% of these business have local offices.
- DTCG has subcontracted to more than 60 firms who employ crews and purchase supplies from local distributors.
- Contractors on the West Corridor employ local certified Disadvantaged Business Enterprises (DBE)

West Rail Construction Schedule

Now – Summer 2012	Civil Construction Continues
Now – Dec 2012	BBRI (Systems) Construction
July 23 – August 14	CPV Closed for Tie-in
Fall 2011 – Spring 2013	Wads/Sheridan Garage Design/Construction
Jan – May 2013	Operations Testing
May 2013	Opens to the public


West Rail Construction Progress

Bridges/Structures	98% complete
Drainage Improvements	98% complete
Stations/Parking	36% complete
Track	49% complete
Walls	88% complete

Total Construction progress – 65% complete

Overall West Rail progress – 80% complete

**Construction progress as of May 2011*

The background is a solid red color with a curved white line that starts from the top left and curves towards the right, creating a sense of depth and movement.

West Rail Line Project Elements

Project Elements

Safety is priority

- Safety on the West Rail Line
- Bicyclists
 - ✓ Bike paths
- Pedestrians
 - ✓ Sidewalks
- Crossings
 - ✓ Safety
 - ✓ Quiet crossings
- Schools
 - ✓ Safety

Safety and Security

- Security cameras on trains, on station platforms and at parking structures
- Emergency telephones on station platforms and elevators
- Training and drills will be conducted with the first responder community (Police and Fire) prior to operation
- Security officers will patrol trains, station areas, and park-n-rides
- Transit Watch Program including 24-hour telephone number (text and e-mail) to RTD's security command center

Bicyclists: Bike Paths

- West Rail Line is a bike and pedestrian friendly project
- The bike path will be both an on-street and off-street configuration, running parallel to the West Rail Line for the majority of the alignment
- More than half of the bike path in Lakewood will be a dedicated path, separate from the street.
 - Elevated crossings on bridges adjacent to the light rail: Kipling and Wadsworth
 - Signage will be placed for the street portion of the bike path, but they will need to share the road with automobiles
- All light rail stations will feature bicycle parking using bike racks and/or bike lockers
- Bicycles are allowed on RTD buses and light rail trains



Bicyclists: Safety

- Design team has worked to eliminate as many bicycle crossings as possible. However, there are still four locations where bikes must cross the light rail tracks

- ✓ Harlan Street
- ✓ Estes Street
- ✓ Garrison Street
- ✓ Oak Street



*Oak Street
Bike Crossing*

- At each crossing, the bike path will cross the tracks at street level, adjacent to automobile traffic
- Throughout the year, bike path maintenance, including snow removal, crack filling and other general maintenance, will be done by the city where the bike path is located

Pedestrians: Sidewalks and Safety

- Federal and Sheridan Bridges (over light rail) feature widened sidewalks, increasing safety for pedestrians and bicyclists traveling on these roadways
- Pedestrian warning signs will be provided at all crossings
- Pedestrian tunnel built under elevated guideway just east of Kipling Street



Pedestrian Tunnel

- ✓ Tunnel serves the Lakewood community by providing a safe alternative for students going to and from Eiber Elementary School (north) adjacent to the guideway
- ✓ Concrete tunnel is 14 feet long, 8 feet wide, 9 feet tall and includes lighting for added safety
- ✓ The pedestrian tunnel will open when the West Rail Line opens in May 2013

Crossings

Closures — 10



Nelson Street

Grade Separations — 14



Kipling Bridge

At-Grade — 20



Teller Street

Safety: At-Grade Crossings

- RTD is committed to funding grade crossing improvements to mitigate noise and safety impacts as required by federal guidelines
- RTD working with the Public Utilities Commission regarding the at-grade crossings in the community neighborhoods
- RTD has always included the following safety measures, which are still in place:
 - ✓ Quad gates (two gates on the north side and two gates on the south side of each crossing)
 - ✓ Flashing lights
 - ✓ Pavement Markings
 - ✓ Signage



Perry Street

Safety: Quiet Crossing

- Quiet crossings on the West Rail Line — 11
 - ✓ RTD has approval to run quiet through the crossings (no horns, no train level bells on gates)
 - ✓ Required: a pedestrian specific, low-level audible signal on the crossings to alert pedestrians of approaching trains
 - ✓ Train horn will sound for safety reasons
 - When maintenance crews are along the tracks
 - Emergency situations such as pedestrians along the tracks or vehicles rushing the gates
 - ✓ Each Quiet crossing requires installation and maintenance of active grade crossing warning devices: flashing lights and gates at public crossings, advance warning signs, and constant warning time devices

Safety: Schools

Objective

- To ensure that all West Corridor schools, including principals, faculty, parents and students are informed in a timely manner about safety information and cautions that should take place during construction and operation

Goals

- To inform target audience (students, parents, and teachers) about the safety concerns and tips dealing with construction and operation of the light rails
- To distribute the information in a timely manner

Method of Communication

Fact Sheets	Safety Tips
Posters	Booth
Construction Schedule	Coloring books/pages
Construction Emergency Contact Magnets	

Light Rail Activation/Service Changes

Activation

- Process kicked off in April
- RTD departments are involved
- Identifies all tasks necessary for successful start-up
- More than 400 tasks have been identified to date
- Includes service plans for bus and light rail

Service Changes (bus and rail)

- Draft plans ready – Aug. 2011
- Stakeholder review begins Aug. 2011
- Comments incorporated
- Public Hearings – Spring 2012



Integration of rail operations

Testing will begin in early 2013

- Testing of trains/drivers

- Simulated service – 30 days

- Pre-Revenue Tours

Safety Training and Information

- Operation Lifesaver

- School packets and field trips

- Neighborhood Presentations

Grand Opening

- Station Parties – Jurisdictions involved in hosting

- Free Ride weekend

- Volunteers at all stations initially to assist riders

First test train on West Rail Line: 8-7-2011



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