



West Corridor Monthly Progress Report

January 2010



Regional Transportation District

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PROJECT UPDATE

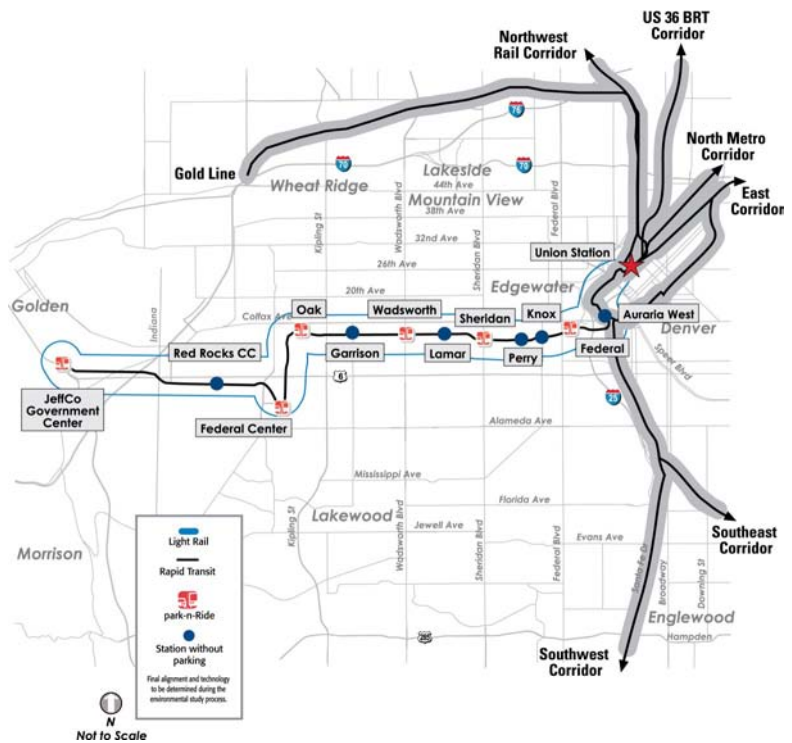
Major construction continues along the West Corridor with the most visible construction being the bridges along 6th Avenue on the west end of the corridor. This month work continued on the following bridges:

- Colfax Avenue light rail bridge
- Indiana light rail bridge at 6th Avenue
- 6th Avenue light rail bridge (near the Federal Center)
- Wadsworth light rail bridge
- Federal Blvd. bridge
- Lakewood Gulch light rail bridge

Demo continued on the properties at Sheridan and construction began on the Sheridan Bridge. Right-of-way acquisition, utility relocation and delivery of ties and rail also continued along the corridor in January.

RTD's Contractor, Denver Transit Construction Group (DTCG), has continued to place MSE walls, retaining walls, and cast-in-place walls along the corridor. Wall construction is most visible along 6th Avenue between Simms Street/Union Boulevard and Indiana Street.

Construction of storm sewer inlets, manholes, piping and other drainage improvements continued along 6th Avenue, at Collins Avenue, North Avenue and at Harlan and 13th Avenue.



UTILITY RELOCATION

Design Overview

The estimated total number of work orders for this project is 260 which includes 209 for private utility owners and 51 for public utilities that will be constructed by RTD's Contractor. RTD has prepared 254 work orders for utility relocations; this number includes work performed by the Utility Owners and work performed by RTD's Contractor.

Construction

Xcel has completed the relocation of electric facilities located along 13th Avenue from Quail to Sheridan, Johnson to Van Gordon, and Knox Court to Federal. Xcel Energy-Electric will complete all known electric relocation construction by summer of 2010 with the exception of electric construction that requires coordination with DTCG construction.

Xcel Energy-Gas will complete all known gas relocation construction by spring 2010 with the exception of gas construction that requires coordination with DTCG construction.

Qwest has completed removing the transite conduits that were in conflict with the proposed LRT construction along 13th Avenue from Garrison to Estes. Qwest will complete all known communications relocation construction by December 2010 with the exception of construction that requires coordination with DTCG construction.

Comcast has completed their relocation construction along 13th Avenue to Harlan that runs parallel with the proposed LRT guideway. Comcast still needs to remove two overhead crossings along 13th Avenue between Oak and Lamar.

Consolidated Mutual Water Company will complete all known utility relocation construction by summer 2010 with the exception of the waterline construction that requires construction coordination with DTCG.

Adesta will complete all known relocation construction by spring of 2010 if necessary to accommodate LRT construction.

As of January 2010, the project has completed 65 percent of the Dry Utility Relocation Construction for the West Corridor.

FORCASTED WORK ORDERS FOR DRY UTILITIES	TOTAL # WO WRITTEN FOR DRY UTILITIES	TOTAL # DRY UTILITIES NEGOTIATED	WO DRY UTILITIES DESIGN COMPLETE	WO DRY UTILITIES CONSTRUCTION COMPLETE	% DRY UTILITIES DESIGN STARTED	% DRY UTILITIES CONSTRUCTION STARTED
209	204	188	175	135	84%	65%

STRUCTURAL CONSTRUCTION



Retaining Walls in Jeffco

Construction is underway on walls in Jefferson County. Crews worked on installation of this wall in January.



Retaining wall along 6th Avenue

Work is also underway on retaining walls near the Red Rocks CC Station along 6th Avenue.

STRUCTURAL CONSTRUCTION (continued)



Wadsworth Bridge

This month, crews continued to work on the bridge that will carry light rail over the top of Wadsworth Blvd.



Indiana Bridge

Work continued on the Indiana Bridge which will take light rail over both 6th Avenue and Indiana Street with one bridge.

CIVIL CONSTRUCTION

Civil work conducted during this month consisted primarily of the continuing construction of sewer (storm and sanitary) systems and major drainage structures within and adjacent to the LRT guideway.



Concrete Tie Delivery

Concrete ties are unloaded at the Federal Center storage area



13th Avenue (Carr to Zephyr)

Construction of this major drainage culvert continued during the month of January.

CIVIL CONSTRUCTION (continued)



Lena Gulch

Drainage culvert work continues in Jefferson County.



Collins Street

Final steps to complete the construction of this drainage improvement started in January.

RIGHT-OF-WAY

The right-of-way for the West Corridor project includes 20 parcel impacts (original total acquisition); 52 parcel impacts (owned by government entities); four parcel impacts (owned by railroad companies); two parcel impacts (partial acquisition changed to total acquisition); and 241 parcel impacts (partial acquisitions).

The process to acquire the right-of-way for the original total acquisitions began early in the project and currently possession of 19 of the 20 properties has been completed. Negotiations continue on the one remaining parcel.

Many of the total acquisitions involved relocation. Two properties contained apartments with approximately 160 tenants. The relocation of all apartment tenants has been completed.

The process to acquire the right-of-way from a governmental entity involves negotiations through an Inter-Governmental Agreement (IGA). The IGA by and between the Regional Transportation District and the Colorado Department of Transportation has been signed. Pursuant to a fully executed IGA by and between the City of Lakewood and the Regional Transportation District, permits will be issued by the City of Lakewood on their property required for the project at the request of DTCG. The acquisition from the Railroad Companies involves a separate agreement process.

The Real Estate Exchange Agreement by and between RTD and the City and County of Denver for property west of Federal Blvd. has been signed by RTD and has been approved by the Denver City Council. All streets within the park have been vacated by ordinance and quitclaim between CCD and RTD will be exchanged on or before February 15, 2010.

RIGHT OF WAY (Continued)

Acquisition Tables

# of Parcel Impacts (Total Acquisition)	# of Parcels Certified	# of Appraisals In Process	# of Appraisals Completed	FMV Determinations	Acceptance	Ready for Construction
20	20	0	20	20	19	17
# of Parcel Impacts (Owned by Government Entities)	# of Parcels Certified	IGAs are pending			IGAs approved CDOT Lakewood CCD (273)	Ready for Construction
52	52				45	45
# of Parcel Impacts (Owned by Railroad Companies)	# of Parcels Certified	Agreements are pending			Acceptance	Ready for Construction
4	4				2	2
# of Parcel Impacts (Partial Acquisition changed to Total Acquisition)	# of Parcels Certified	# of Appraisals or Value Findings in Process	# of Appraisals or Value Findings Completed	FMV Determinations or Value Findings Approved	Possession/Closing	Ready for Construction
2	2	0	2	2	2	2
# of Parcel Impacts (Partial Acquisition)	# of Parcels Certified	# of Appraisals or Value Findings in Process	# of Appraisals or Value Findings Completed	FMV Determinations or Value Findings Approved	Possession /Closing	Ready for Construction
241	241	6	235	235	131	127
TOTAL # of Parcel Impacts	TOTAL # of Parcels Certified	TOTAL # of Appraisals or Value Findings in Process	TOTAL # of Appraisals or Value Findings Completed	TOTAL # of FMV Determinations or Value Findings Approved	TOTAL # of Acceptance	TOTAL # Ready for Construction
319	319	6	257	257	199	193

QUALITY MANAGEMENT

The RTD FasTracks team has implemented a systematic Quality Management Oversight (QMO) program based on the FTA Quality Assurance/Quality Control Guidelines, and the international standard for quality systems, ISO 9001. RTD's Quality Management system is described in the RTD FasTracks *Quality Assurance Program Plan*. Specific processes are further described in the *Quality Management Oversight Program Manual*, and accompanying procedures.

The weekly Quality Team meetings and verification inspections of the contractor's construction work continued in January in accordance with the RTD Quality Management Oversight Program Manual; results of RTD verification inspections are communicated to the contractor, and tracked within RTD's Quality Management Oversight database to ensure any non-conformances are corrected to RTD's satisfaction and closed.

Kumar and Associates continued split sampling/testing of concrete and soil backfill and embankment. An emphasis was placed on determining the accuracy of methods used for developing proctors and good results were verified. Kumar also continued their audits of the material testing data entered into the Quality Records Database (QRD) for the project.

DTCG continued to finalize their updated Quality Management Plan and continues the process of updating requirements pertaining to document control.

In January, DTCG staff closed the audit of Hirschfeld Industries. They also continued their internal audit program.

During the next month, work will be done to complete revisions and finalize the re-submittal of DTCG's updated Quality Management Plan.

PUBLIC INFORMATION

January PI Activities

January 4	Twin Arms Apartments Meeting- Debbie
January 4	Jack Star- RPM Motor Sports Meeting
January 5	Harlan Businesses Meetings
January 6	Lakewood Construction Meeting
January 8	Denver Fire Department Meeting
January 8	6th Avenue West HOA Meeting – sidewalk on frontage road
January 12	West Corridor Small Stakeholders Meeting
January 13	Lakewood Construction Meeting
January 13	Wheat Ridge Optimist Club Presentation
January 14	Meeting with new Lakewood Councilman – Scott Koop
January 15	West Corridor E Newsletter Distribution
January 19	Ann Johnson- Wight Lateral Meeting
January 19	Sally Mayberry – GSA PIO
January 19	Marilyn Urioste – St. John’s Hospice–tree removal pre-meeting
January 20	Lakewood Construction Meeting
January 21	FTA Quarterly Meeting
January 22	Ruby DiNicola- Mailbox Relocation Meeting
January 24	Bill Taylor – encroachment issue at 13th/Allison with Holly Boehm
January 25	Laura Geiser- Estes Construction Meeting
January 25	Bill Taylor – TCE agreement with Jon Brazeal
January 26	Federal Boulevard Partnership Presentation
January 27	Lakewood Construction Meeting
January 29	West Corridor Internal Newsletter Distribution

Activities Planned for February 2010

February 3	Lakewood Construction Meeting
February 9	West Corridor Small Stakeholders Meeting
February 10	Lakewood Construction Meeting
February 12	West Corridor Elected Officials Briefing
February 15	West Corridor E Newsletter Distribution
February 16	West Corridor Facts and Snacks Presentation
February 17	Lakewood Construction Meeting
February 18	Eiberhood Board Meeting
February 23	St. Anthony’s Central Presentation
February 24	Lakewood Construction Meeting
February 26	West Corridor Internal Newsletter Distribution

DBE PARTICIPATION

Firm	DBE Goal	Actual for January 2010
David Evans & Associates	21%	19%
FRSC	10%	12%
Denver Transit Construction Group (DTCG)	13% Pre-Construction	21%
Denver Transit Construction Group (DTCG)	18% Construction	8.5%
Balfour Beatty Rail Inc. (BBRI)	18%	19%

RISK MANAGEMENT — SUMMARY

The Allocated Contingency of \$18,630,000 and unallocated Contingency of \$13,867,583.68, equaling \$32,497,583.68 in total contingency has not been drawn against through the fourth quarter 2009. Upon receipt of the final approved Baseline Schedule RTD will prepare the revised Contingency Drawdown Chart.

The Risk Register, on page 15-16, shows that the West Corridor has identified 15 Risks.

# of Low Risk	# of Medium Risk	# of High Risk
5	7	3

* Based on likelihood to occur, cost impact, schedule impact

Newly Identified Risks

There are no new risks to the West Corridor this month.

Focused Risks

The Risk Management Team (RMT) has focused their efforts on two main risks, the right-of-way (ROW) schedule impacts, and Hazardous Materials potential overruns to the budget. The final impact right-of-way will have to the schedule and budget is unknown until the schedule is finalized, and the critical ROW is acquired. The critical path scope being impacted is the Sheridan Bridge, and the Consolidated Mainline (CML) Bridge/Siegel Spur/Auraria.

To mitigate the right-of-way impacts to the schedule a collaborative group made up of RTD, DTCG and the ROW representatives meet weekly for collaborative mitigation of the ROW impact to the construction schedule. Hazardous Materials potential locations are showing up at the Burnham Yard Lead (BYL), at the 6th Avenue Bridge on the south end at the Federal Center, and at the Lakewood Gulch.

RTD will implement the existing Voluntary Cleanup Plan (VCUP) for BYL if hazardous materials are identified and mitigation is required. No schedule impact is anticipated. There is a likelihood RTD will hit hazardous materials at 6th Avenue Bridge. RTD is looking into potential grant funding and insurance to mitigate some of the cost that will be incurred due to hazardous materials.

RISK MANAGEMENT — REGISTER

PROJECT RISK REGISTER		Low (1)	Med (2)	High (3)	Legend	
Denver West Corridor		< 10%	<> 10-50%	> 50%	< 100	
REV : 1		< \$100K	<> \$100K - 500K	> \$500k	100-250	
DATE ISSUED : January 10		< 2 Mths	<> 2 - 6 Mths	> 6 Mths	> 250	
Risk ID	Risk Event	Probability	Cost \$	Time	Score	Discipline Lead
Project-Wide						
PW-1	Design errors (or omissions) on the part of DTCG/RTD/DEA/FSRC that result in modifications to the construction contract resulting in change orders (CO) affecting cost, schedule, or contract terms. (potential add'l cost for final \$\$ for Auraria, BYL, GSA, Knox walk, Indiana)	100	3	1	300	PAUL V F
PW-S	Potential issues surrounding details of interfaces between multiple contractors, sub-contractors, stakeholders, and other entities	65	2	1	130	JIM
SCC 10 Guideway and Track						
SCC10-28	May INCREASE amount of excavation above that allocated in the GMP. Hold till start work a subgrade	30	2	1	60	PAUL D
SCC 20 Stations, Stops, Terminal						
SCC 40 Sitework and Special Conditions						
SCC40-20	Utility relocations may not be completed without impacting WC schedule. Possible unknown utilities or unanticipated costs. (i.e. s platte,)	30	2	1	60	VIVIAN S
SCC40-25	Hazmat for the BYL starting initial testing	80	2	1	160	MATT H
SCC40-24	PUC Application and response. Potential denial of RTD request for no horns or bells at intersections in lakewood - Waiting final Signal Design	80	3	1	240	BRENDA T
SCC40-21	Hazmat and contaminated soil removal may be more significant than expected. Significant risk of unanticipated hazmat sites during construction. (DFC Parking/ Wadsworth)	100	3	2	600	MATT H
SCC 50 Systems						
SCC50-11	There are significant and varied interfaces with existing corridors. These interfaces (and cut-overs) pose significant schedule risks. (Auraria) will start a task force	50	2	1	100	FRANK
SCC 60 ROW						
SCC60-6	Delay in acquisition	100	3	3	900	NICK N
SCC60-8	Final ROW settlement costs exceed budget estimates.	50	2	1	100	NICK N
SCC60-9	Concern that coordination with ROW/Design will impact Burnham Yard Lead. That makes a potential schedule and possible cost impact (since the cost is RTD's figure). Should be ok	25	1	1	25	JOE C
SCC 70 LRV						
SCC 80 Professional Services						
SCC80-3	Staffing requirements and overhead costs may rise if schedule slips. (RTD Staff)	50	2	1	100	JERI T

RISK MANAGEMENT — REGISTER (Continued)

PROJECT RISK REGISTER		Low (1)	Med (2)	High (3)	Legend	
Denver West Corridor		< 10%	<> 10-50%	> 50%	< 100	
REV : 1		< \$100K	<> \$100K - 500K	> \$500k	100-250	
DATE ISSUED : January 10		< 2 Mths	<> 2 - 6 Mths	> 6 Mths	> 250	
Risk ID	Risk Event	Probability	Cost \$	Time	Score	Discipline Lead
SCC80-8	Possible conflicts of areas of responsibility for trackwork access and testing, delays in test completion, or other integration could lead to delays and additional staffing costs.	25	2	1	50	FRANK
Terms and Conditions						
T&C-6	Costs exceed budgeted allowance accounts (12 allowance accounts)	75	2	1	150	ERIKA
T&C-18	Change orders may arise due to vague areas of responsibility between Civil/Systems Contractors - future issue matrix responsibility further defined.	50	1	1	50	FRANK/PAUL

COST SUMMARY

As of the end of December 2009, the status of Change Control is as follows:

TYPES OF CHANGES	AMOUNT
· Design Work Orders:	0
· Design Change Orders (DCO):	20
· Design Pending Change Orders:	0
· Construction Work Orders:	0
· Construction GMP Change Orders (GCO):	35
· Construction Change Orders (CCO):	11
· Construction Pending Change Orders:	4
· Systems Work Orders:	0
· Systems Change Orders (SCO):	5
· Systems Pending Change Orders:	2

Change Orders executed in the month of December 2009 with costs in excess of \$100,000.

CO	DESCRIPTION	AMOUNT
	N/A this month	

Pending Changes in review in the month of December 2009 with costs in excess of \$100,000.

PCN	DESCRIPTION	AMOUNT
CCO#076	Wall D15A Caissons	\$487,376.62
CCO#088	Jeffco Temp. Parking Lot (CNPA)	388,674.23

Note: Executed construction change orders (CCO) are primarily for Guaranteed Maximum Price (GMP) work scope prior to full Notice to Proceed (NTP).

PROJECT BUDGET

Corridor Element	Revised Budget (BUD)	Obligated/Committed to Date	% Committed	Actual to Date	% Complete	Estimate at Completion (EAC)	Budget Variance BUD-EAC
10 Guideway & Track Elements	\$140,411,463	\$127,470,437	90.78%	\$38,092,441	27.13%	\$140,411,463	\$0
20 Stations, Stops, Terminals	\$37,492,987	\$38,996,479	104.01%	\$97,068	0.26%	\$37,492,987	\$0
30 Support Facilities: Yards, Shops, Admin Bldgs	\$1,938,214	\$1,900,664	98.06%	\$1,905,562	98.32%	\$1,938,214	\$0
40 Siterwork & Special Conditions	\$172,025,286	\$185,099,971	107.60%	\$80,915,705	47.04%	\$172,025,286	\$0
50 Systems	\$71,176,471	\$59,073,007	83.00%	\$2,764,749	3.88%	\$71,176,471	\$0
60 ROW, Land, Existing Improvements	\$52,781,476	\$40,137,116	76.04%	\$35,001,109	66.31%	\$52,781,476	\$0
70 Vehicles	\$65,853,066	\$65,847,524	99.99%	\$64,755,199	98.33%	\$65,853,066	\$0
80 Professional Services	\$97,463,645	\$80,511,209	82.61%	\$69,691,253	71.50%	\$97,463,645	\$0
90 Unallocated Contingency	\$13,867,584	\$0	0.00%	\$0	0.00%	\$13,867,584	\$0
Capital Total	\$653,010,191	\$599,036,407	91.73%	\$293,223,086	44.90%	\$653,010,191	\$0
100 Finance Charges	\$56,819,809					\$56,819,809	
TOTAL PROJECT COST (10-100)	\$709,830,000					\$709,830,000	

Thru 11/30/09

Notes:

The actual cost for EIS/PE is included in the actual cost to date.

The Vehicle depreciation (\$14,157,497) is included in the Vehicle actual to date cost.

*Appropriations are updated on an annual basis

**Committed to Date includes Federal portion of CM/GC & Systems Contractors

PROJECT SCHEDULE

Attached is the West Corridor Summary Project Schedule through December 31, 2009

Milestones for December 2009

- Work started on the Sheridan Bridge.

Forecasted Milestones for January 2010

- Begin the preconstruction submittal process for the Decatur Bridge
- Completion of the structure for the Knox Box Culvert

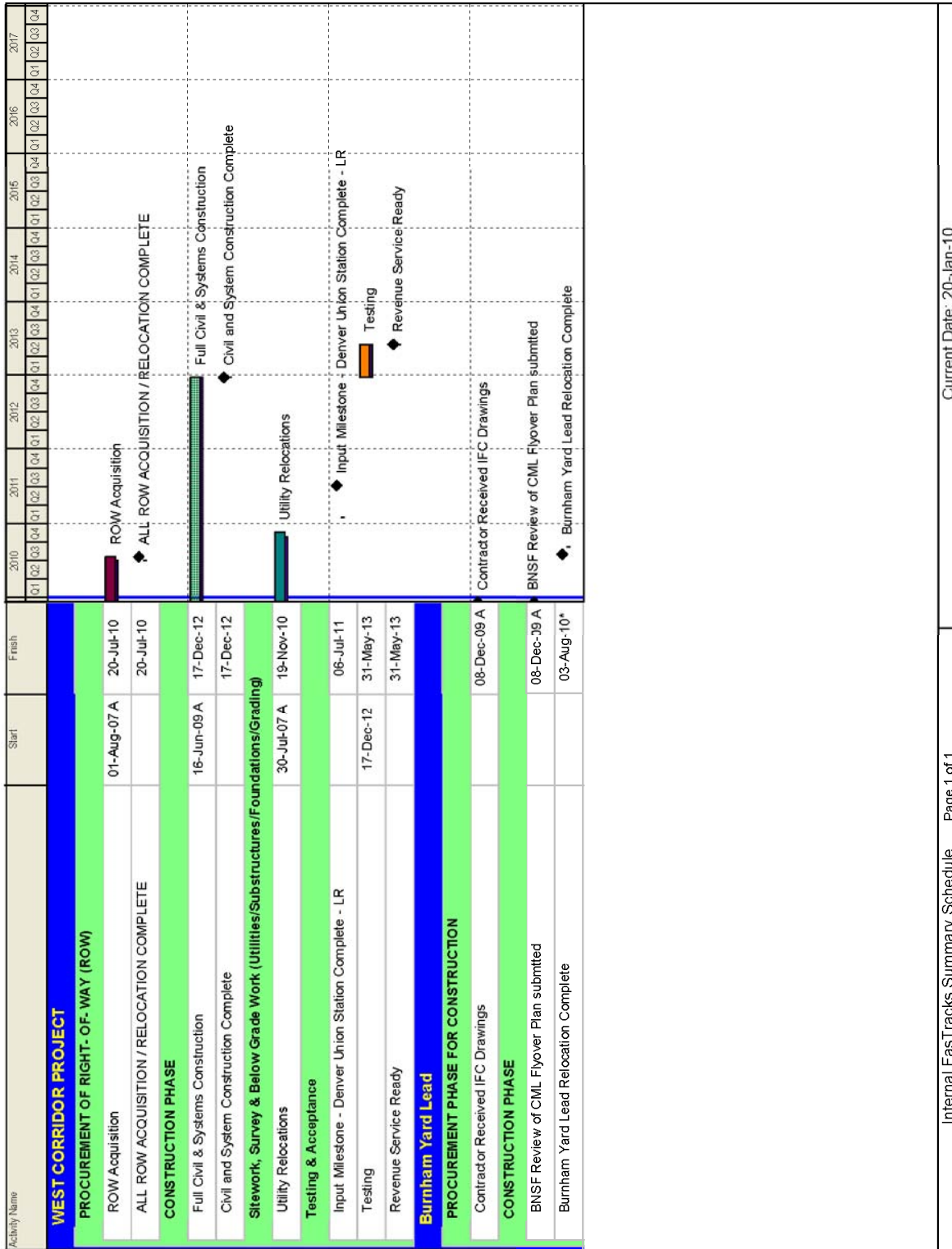
Major Work Ongoing:

Bridges/Structures: There are a total of 15 bridges/structures. The overall earned value is 48% complete.

Pedestrian Bridges/Structures: There are a total of four pedestrian structures. The overall earned value of 99% Complete.

Bridge	Start	Forecasted Finish	Percent Complete
Colfax Bridge	10-Jun-09 A	12-Apr-10	62.59%
I-70 Tunnel	01-Sep-09 A	14-May-10	73.31%
Indiana Bridge	16-Jun-09 A	20-Apr-11	58.60%
Union/Simms Tunnel Utilities	13-Apr-09 A	24-Jan-11	29.01%
US 6 Bridge	03-Mar-08 A	15-Feb-11	55.00%
Kipling Bridge	12-Feb-08 A	2-Apr-10	86.89%
West Dry Gulch Bridge	30-Apr-08 A	17-May-10	95.14%
East Dry Gulch Bridge	01-Aug-08 A	28-Jun-10	98.15%
Wadsworth Bridge	16-Jun-09 A	29-Oct-10	67%
Sheridan Bridge	1-Dec-09	4-May-11	0%
Federal Bridge	12-Jun-09 A	24-May-11	24.14%
Decatur Bridge	14-Dec-09	3-May-11	2.30%
Lakewood Gulch Bridge	15-May-09 A	22-Feb-10	86.31%
South Platte River Bridge	16-Jun-09 A	3-Mar-11	0%
CML Flyover	01-Jun-09 A	10-Feb-11	0%
Pedestrian Bridge/Structure	Start	Forecasted Finish	Percent Complete
Wolff Ped Bridge	02-Jul-08 A	26-Aug-09 A	100%
Tennyson Ped Bridge	02-Jul-08 A	12-Apr-10	98.83%
Hazel Court Ped Bridge	05-Aug-08 A	12-Apr-10	98.45%
Pikeview Ped Tunnel	15-Apr-09 A	17-Jun-09 A	100%

PROJECT SCHEDULE — (Continued)



Current Date: 20-Jan-10

Internal FasTracks Summary Schedule Page 1 of 1