Construction Project Briefing

January 20, 2010



Today's Presentation

- Cermak Station Project
- Brown Line Capacity Expansion Project
- Subway Escalators Project
- Dearborn Subway Tie Replacement Project
- Systemwide Communications Upgrade Project
- Security Camera Project
- Howard Signals Project
- Loop Signals Project
- Blue Line Signals Project



Project Title: Cermak Station Project Managing Department: Facilities Construction

Justification of Need:	Reconstruct station entrance after vehicle accident and fatality; make station ADA compliant
Priority of Project:	High
Project Budget	\$12.5M
Earned to Date:	\$45.3K
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	9%
Funding Source:	ARRA (Federal Stimulus Funds)
Procurement Status:	Permit in process, Archer entrance package being executed
Estimated Start Date/Estimated Length of Project:	November 2009 – 15 month construction duration
Project Manager:	Steven Mascheri (GM); Chris Mulcrone (PM)

Detailed Overview of Scope:

- New auxiliary entrance at Archer Avenue
- New station house with new revenue equipment, elevator, escalator, and bike racks at Cermak entrance
- Attain ADA compliance upon project completion



Project Title: Cermak Station Project Managing Department: Facilities Construction

Impact on Customers:	Cermak entrance will be closed during construction. CTA will construct new Archer entrance to keep station open.
Benefit to System:	 Station will become ADA-compliant Third means of egress from platform for station access & exiting
Benefit to Community:	Station will become ADA-compliantNew Archer Avenue auxiliary entrance
Impact on Accessibility:	Station will become ADA-compliant
Estimated # of Jobs Created:	50 on-site jobs (Contractor, CM, PM)
Customer Communication Need:	Cermak entrance to be closed during construction and will reroute customers to Archer auxiliary entrance

Comparable Projects:

Brown Line Capacity Expansion Project



Project Title: Cermak Station Project Managing Department: Facilities Construction

Construction Progress

Phase	Description	Status
Zoning Approval	 Special use variance required for construction of Archer Entrance. 	Approved
Design	 Design of Archer entrance completed, permit has been applied for Design of Cermak entrance underway, expected completion end of 2009. 	Final permit comments rec'd from DOB. Cermak design to be complete 12/31/09
Construction	 Construction of Archer entrance began November 2009. Construction of Cermak Entrance to begin after completion of Archer entrance. 	Construction to be completed 12/31/10

Delay Explanation:

No current delays.

Justification of Need:	Accommodate increased ridership, provide accessibility, upgrade support systems
Total Project Budget:	\$529.9M
Earned to Date:	\$501.1M or 94.6% (through October 2009 Financials)
Percent Change Orders to Construction Contract:	7.93% (includes all 7 contracts)
Percent Time Used to Date:	97% (through October 2009)
Funding Source:	FFGA
Estimated Start Date/Estimated Length of Project	NTP 12/2004; Completion Date 12/31/2009
Project Manager:	Bob Wittmann (GM); Pedro Hurtado and John Titzer (PM)

Detailed Overview of Scope:

- Extend platforms to allow for 8-car operations
- Make stations ADA accessible
- Rehab 18 stations; add elevators to 13 stations
- Restore 8 historic stations in agreement with the Illinois Historic Preservation Agency
- Upgrade signal, power and communications delivery system

Construction Progress

Phase	Description	Status
Construction	FullertonStation substantially complete on December 31, 2009.	Substantially Complete
	BelmontStation substantially complete on December 31, 2009.	Substantially Complete

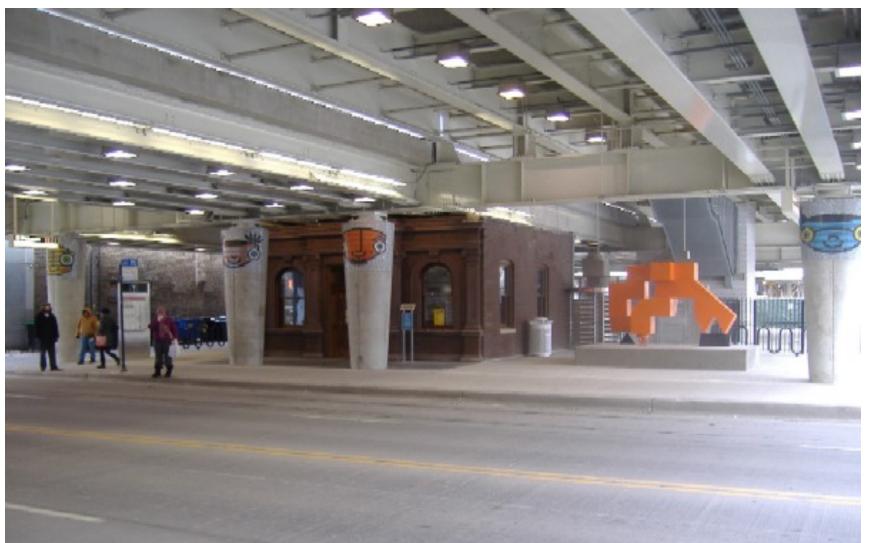
Dela	ay Explanation:
۹	No current delays.





Belmont Station main entrance





Belmont Station auxiliary entrance



Project Title: Subway Escalators Managing Department: Facilities Construction

Justification of Need:	Escalators beyond useful life; high maintenance cost
Total Project Budget:	\$22.8M
Construction Contract Value:	\$17.1M
Earned to Date:	\$14.0M or 81%
Percent Change Orders to Construction Contract:	3.98%
Percent Time Used to Date:	70%
Funding Source:	FTA
Estimated Start Date/Estimated Length of Project	NTP 1/7/08; Completion Date 9/22/10
Project Manager:	Bob Wittmann (GM); Rick Herndobler (PM)

Detailed Overview of Scope:

Replace nine escalators, reopen one exit and relocate one escalator facility on Red and Blue Lines Subway



Project Title: Subway Escalators Managing Department: Facilities Construction

Construction Progress

Phase	Description	Status
Completed	Jackson/Van Buren Red (street to mezzanine escalator)	Returned o service 2/19/09
	Monroe/Adams Red (platform to mezzanine escalator)	Returned to service 3/19/09
	Adams/Jackson Red (street to mezzanine escalator)	Returned to service 4/18/09
	Randolph/Washington Blue (platform to mezzanine escalator)	Returned to service 5/4/09
	Adams/Jackson Red (street to mezzanine escalator)	Returned to service 9/4/09
	Harrison Red (platform to mezzanine escalator)	Returned to service 9/9/09
	Monroe/Adams Red (street to mezzanine escalator)	Returned to service 9/28/09
Construction	Monroe/Adams Red (street to mezzanine)	Return to service scheduled in March 2010
	Madison/Monroe Blue (platform to mezzanine)	Return to service scheduled in July 2010
Delay Explanation	on:	
No delays		



Project Title: Dearborn Subway Tie Replacement Project Managing Department: Power & Way Construction

Justification of Need:	Growing number of slow zones in Dearborn Subway
Priority of Project:	Critical
Total Project Budget:	\$87.8M
Construction Contract Value:	\$58M
Earned to Date:	\$48.9M
Percent Change Orders to Construction Contract:	3%
Percent Time Used to Date:	77%
Funding Source:	ARRA
Procurement Status:	Completed
Estimated Start Date/Estimated Length of Project:	NTP 3/27/09; Total project length = 345 days from NTP (March 7, 2010).
Project Manager:	Carole Morey (GM); David Heard (PM)

Detailed Overview of Scope:

Work includes replacement of all wooden half-ties and ballasted track with direct fixation track systems, replacement of portions of running rail and all contact rail and contact rail chairs, special track work in LaSalle Crossover, negative return and signal work, concrete repair in deteriorated sections of tunnel and foot walk, and grouting and sewer cleaning.



Project Title: Dearborn Subway Tie Replacement Project Managing Department: Power & Way Construction

Impact on Customers:	One construction season (2009-2010); 2 Single Tracks, 21 Line Cuts
Benefit to System:	Slow zones in Dearborn Subway will be eliminated; can safely run trains at higher speeds.
Benefit to Community:	Faster commute time through the Dearborn subway once construction is complete.
Impact on Accessibility:	N/A
Estimated # of Jobs Created:	Over 200 on-site jobs (Contractor, CM, PM)
Customer Communication Need:	Project website, signage, additional Customer Assistants at Blue Line Stations

Comparable Projects:

- Block 37 Half Tie Project (Red and Blue Lines)
- State Street Subway Tie Project



Project Title: Dearborn Subway Tie Replacement Project Managing Department: Power & Way Construction

Construction Progress

Phase	Description	Status
Milestone A	 Tie demolition, rail replacement and placement of temporary plates between the North Portal and Grand Crossover 	Completed 8/24/09
Milestone B	 Half-tie replacement and replacement of rail from 1000 feet south of Grand crossover to south end of platform at Clark/Lake. 	Completed 8/31/09
Milestone C	 Half-tie replacement and replacement of running rail from south end of platform at Clark/Lake to east of river. 	Completed 12/14/09
	 Removal of ballast, pour of new invert and half-ties and replacement of running rail from east of river to south portal. 	
	Special track work at LaSalle crossover.	

Delay Explanation:

No current delays.

Remaining Work:

Remaining work to complete includes: 3rd rail chairs, sewer cleaning, grouting, concrete repair and punchlist work. All work will be completed under 24 nighttime single tracks.



Project Title: Systemwide Communications Upgrade Managing Department: Power & Way Construction

Justification of Need:	Upgrade communication infrastructure to address technological changes.
Priority of Project:	High
Construction Contract Value:	\$44.5M
Earned to Date:	\$37.7M
Percent Change Orders to Construction Contract:	43%
Percent Time Used to Date:	98%
Funding Source:	IDOT, RTA, Bond funds
Procurement Status:	N/A
Start Date/Estimated Length of Project:	NTP given 9/1/05; contract extended to 12/31/09
Project Manager:	Carole Morey (GM); Herb Nitz (PM)

Detailed Overview of Scope:

- Upgrade of new fiber optic and copper backbone
- Installation of over 40 miles of new fiber and over 60 miles of new copper (w/Brown Line)
- Installation of over 120 new high-speed fiber optic nodes

Project Title: Systemwide Communications Upgrade Managing Department: Power & Way Construction

Impact on Customers:	N/A
Benefit to System:	Improve system-wide communication capabilities, reduce operating costs and support future technology enhancements that can improve safety, security and efficiency.
Benefit to Community:	N/A
Impact on Accessibility:	N/A
Estimated # of Jobs Created:	N/A
Customer Communication Need:	N/A

Comparable Projects:

Blue Line Signals project



Project Title: Systemwide Communications Upgrade Managing Department: Power & Way Construction

Construction Progress

Phase	Description	Status
Construction	 Brown Line Communications package (excludes VMS scope) 	Ongoing, complete by 12/31/09
	 Digital Advertising/ VMS signs (Brown Line) 	
	 The implementation of Digital Advertising on the Brown Line has been suspended. Instead, variable message signs (VMS) will be installed at the Belmont and Fullerton stations. VMS/Digital Advertising signs at the remaining Brown Line stations will be installed under a separate contract. 	Complete by 12/31/09
Testing/ Cutovers/ Substantial	 Systemwide (base contract) 	Complete by 12/31/09
Completion	 Systemwide (Change order #7) 	Jan/Feb 2010
Delay Explanation:		
Base co	Order (6/1/09) extended contract for an additional 7 months at no cost to ntract work and Brown Line communications package will be complete by , Bulletin #15 work will be substantially complete January/February 2010.	12/31/09. Change



Project Title: Security Camera Initiative Managing Department: Power & Way Construction

Justification of Need:	Increase security at stations and rail yards.	
Priority of Project:	High/Critical	
Total Project Budget (Phases 1 and 2 only):	\$17.9M	
Construction Contract Value:	JOC Work Order #1 = \$1.2M	
	JOC Work Order #2 = \$2.3M	
Earned to Date:	\$435,000	
Percent Change Orders to Construction Contract:	N/A	
Percent Time Used to Date:	Phase 1 = 83%	
Funding Source:	DHS, RTA (AFC portion)	
Start Date/Estimated Length of Project:	t: NTP given 7/21/09 for first six Green Line Stations; NTP given 9/17/09 for remaining 11 Green Line stations	
Project Manager:	Carole Morey (GM); Herb Nitz (PM)	

Detailed Overview of Scope:

Phase 1: Security cameras at 17 Green Line stations (complete by 12/31/09)

Project Title: Security Camera Initiative Managing Department: Power & Way Construction

Impact on Customers:	N/A
Benefit to System:	Improved security
Benefit to Community:	Improved security
Impact on Accessibility:	N/A
Estimated # of Jobs Created:	N/A
Customer Communication Need:	N/A

Comparable Projects:

- Subway camera project
- Dan Ryan Camera change order



Project Title: Security Camera Initiative Managing Department: Power & Way Construction

Construction Progress

Phase	Description	Status
Construction	 Green Line – Lake Branch (Central, Laramie, Cicero, Pulaski, Conservatory/Central Park, California) 	NTP given 7/21/09
	 Infrastructure is complete; installation of cameras began mid- November 	
	 Green Line – South Main Branch (Cottage Grove, King Drive, Ashland, Halsted, Garfield, 51st, 47th, 43rd, Indiana, 35th, Roosevelt) Work is currently underway at all 11 stations 	NTP given 9/17/09
Design/ Procurement	 Phase 2 design being performed by CTA Technology 	Ongoing
Delay Explanation:		
No current delays.		



Project Title: Howard Signals Project Managing Department: Power & Way Construction

Justification of Need:	Restore Reliability and Improve Performance of the Train Control System
Priority of Project:	High
Total Project Budget:	\$7M
Construction Contract Value:	\$5.5M (Signal); \$355K (JOC); \$555K* (Additional JOC work funded)
Earned to Date:	\$0 (Signal); \$320K (JOC)
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	14% (Signal); 100% (JOC); 0% (Additional JOC)
Funding Source:	CTA Bonds
Estimated Start Date/Estimated Length of Project:	NTP issued August 6, 2009; Completion by July 27, 2011
Project Manager:	Barney Gray (GM); Grace Ohs (PM)

Detailed Overview of Scope:

- Upgrade existing Vital Processor Interlocking (VPI) systems at Interlockings near the Howard Street Station. Upgrades to Communication hardware and software. Also includes replacement of faceplates for Howard Control Panel, new CTC Workstation, and new Maintainer's overview displays.
- Project also includes supplemental JOC work at Howard Tower. Roof replacement, HVAC replacement, and new fire suppression system is included.
- Additional \$555K in JOC work includes Jarvis wall and abutment repair and backup generators.

*Additional \$555K JOC work will be paid out of separate funds allocated by Capital Finance department.

Project Title: Howard Signals Project Managing Department: Power & Way Construction

Impact on Customers:	During non-rush periods, reduced train speeds when workers are on the ROW.
Benefit to System:	Improve signal system at Howard Interlocking to prevent delays to service.
Benefit to Community:	More consistent travel times due to increased reliability.
Impact on Accessibility:	N/A
Estimated # of Jobs Created:	N/A
Customer Communication Need:	 Courtesy notification to the Alderman and Community about the project. Train announcements about reduced speeds due to workers on ROW.
Comparable Projects:	
Blue Line Signals ProjectLoop Signals Project	



Project Title: Howard Signals Project Managing Department: Power & Way Construction

Construction Progress

Phase	Description	Status
Construction	Investigation and Design	Ongoing
JOC Construction	 Wight-Hill started work 6/10/09, HVAC and roof work is substantially complete. 	Close-Out

No current delays.



Project Title: Loop Signals Project Managing Department: Power & Way Construction

Justification of Need:	Upgrade Towers and Interlocking Control Systems to current technology; Tower 18 past useful life
Total Project Budget:	\$103.2M
Construction Contract Value:	\$67.9M
Earned to Date:	\$47.1M or 69.5%
Percent Change Orders to Construction Contract:	40.7%
Percent Time Used to Date:	100%
Funding Source:	FTA, RTA and Bond Funds
Estimated Start Date/Estimated Length of Project	NTP 2/21/07; Original Completion Date 9/2009; Revised Completion Date 9/2010
Project Manager:	Barney Gray (GM); Brittany Dyra (PM)

Detailed Overview of Scope:

- New Bi-directional Cab Signal System for the Loop
- Construction of new Control Tower at Lake/Wells
 - New control panel with remote controls for Tower 12 and Jefferson
- Installation of a new Signal Facility Building at Randolph/Wells
- Installation of a new Tower 12 Relay House
- Installation of new Interlocking at Jefferson

Project Title: Loop Signals Project Managing Department: Power & Way Construction

Construction Progress

Phase	Description	Original Completion Date	Revised Completion Date	Actual Completion Date
Milestone 1	Approved Signal Block Design	8/20/07	4/2008	3/18/08
Milestone 2	Approved Cable Plan	9/4/07	5/2008	5/21/08
Milestone 3	Approved Tower 18 Circuit Design	9/19/07	6/2008	12/2/08
Milestone 4	Audio Circuit Cutover	9/2008	N/A	9/14/08
Milestone 5	Tower 18 Relay Room	3/20/09	11/2009	TBD*
Milestone 6	Tower 18	None Provided	1/2010	
Milestone 7	Tower 18 Interlocking	8/2009	1/2010	
Milestone 8	Tower 12 Interlocking	8/2009	9/2010	
Milestone 9	Substantial Completion	9/2009	9/2010	

Delay Explanation:

Original project schedule to be complete 9/2009; current project schedule shows completion for 9/2010. See dates above for details.

* Tower 18 Relay Room cutover was completed 11/16/09; testing still remains related to this milestone



Project Title: Blue Line Signals Project Managing Department: Power & Way Construction

Justification of Need:	Signal system is beyond expected service life and upgrades needed for compatibility with new AC-powered railcars. Traction Power upgrades needed to reduce power shutdowns and service disruptions.
Total Project Budget:	\$243M
Construction Contract Value:	\$185.1M
Earned to Date:	\$168.4M or 91%
Percent Change Orders to Construction Contract:	6.2%
Percent Time Used to Date:	100% of original time, 99.5% with new date of 11/22/09
Funding Source:	CTA Bonds, RTA, FTA, IDOT
Estimated Start Date/Estimated Length of Project	NTP 12/1/05; Original Scope Completion Date 7/1/09, Substantial Completion Date for Additional Work 11/22/09
Project Manager:	Barney Gray (GM); Grace Ohs (PM)

Detailed Overview of Scope:

- Blue Line Signal and Traction Power Upgrades.
- Replace and upgrade signals, power distribution, and associated components at various facilities in the Dearborn Subway, and on the Congress and Kennedy Branches of the Blue Line and State Street Subway. Upgrades to communication facilities.

Project Title: Blue Line Signals Project Managing Department: Power & Way Construction

Construction Progress

Phase	Description	Status
Punch list	 Partial substantial completion from Forest Park to Jefferson Park for signal work. Punch list work continues. 	Ongoing
Construction	 Additional work: Automatic Vehicle Identification Upgrades, Worker Ahead Zone Modifications, Track Markers, and Lake Street Cable Rerouting for Blocked Duct Bank. 	Ongoing

Delay Explanation:

Contract Completion date extended from July 1, 2009 to November 22, 2009 for the completion of additional work. Final acceptance and punchlist items will continue after November 22, 2009.