

Construction Project Briefing

May 14, 2010



Today's Presentation

- **Cermak Station Project**
- **Subway Escalators 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:	\$4.2M
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	40%
Funding Source:	ARRA (Federal Stimulus Funds)
Procurement Status:	<ul style="list-style-type: none"> • Archer auxiliary entrance: Under construction • Cermak main entrance: Applying for permit in Spring 2010
Estimated Start Date/Estimated Length of Project:	Started in November 2009 and a 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:	<ul style="list-style-type: none"> • Station will become ADA-compliant • Third means of egress from platform for station access & exiting
Benefit to Community:	<ul style="list-style-type: none"> • Station will become ADA-compliant • New 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:
<ul style="list-style-type: none"> • Brown Line Capacity Expansion Project



Project Title: Cermak Station Project

Managing Department: Facilities Construction

Construction Progress

Phase	Description	Status
Design	<ul style="list-style-type: none"> ▪ Archer design complete, permit issued in December ▪ Design of Cermak underway; 30% progress set issued – CTA departments reviewing and providing comments 	Archer complete; Cermak Under Design
Archer Construction:	<ul style="list-style-type: none"> ▪ Stationhouse steel erected, concrete walkway poured ▪ Underground utilities relocated. ▪ Fabricating stationhouse finish materials (doors, lights, etc) ▪ Finalizing process plan for platform cut to new stationhouse 	Scheduled completion June 1, 2010
Cermak Construction:	<ul style="list-style-type: none"> ▪ Preparing site for new stairs, escalator, and elevator ▪ Finalizing electrical to Archer Entrance 	Scheduled completion December 31, 2010

Delay Explanation:
<ul style="list-style-type: none"> • No current delays.



Project Title: Cermak Station Project

Managing Department: Facilities Construction



Archer stationhouse steel erected and being built out for passenger use.



Project Title: Cermak Station Project

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Structural steel in place; framing out new platform staircase to Archer stationhouse.



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:	\$14.1M or 82%
Percent Change Orders to Construction Contract:	3.98%
Percent Time Used to Date:	82%
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:	
<ul style="list-style-type: none"> 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 July 2010
	Madison/Monroe Blue (platform to mezzanine)	Return to service scheduled in August 2010

Delay Explanation:
<ul style="list-style-type: none"> 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:	\$2.5M (Signal); \$320K (JOC)
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	34% (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:	<ul style="list-style-type: none"> • Courtesy notification to the Alderman and Community about the project. • Train announcements about reduced speeds due to workers on ROW.

Comparable Projects:	
<ul style="list-style-type: none"> • Blue Line Signals Project • Loop Signals Project 	



Project Title: Howard Signals Project

Managing Department: Power & Way Construction

Construction Progress

Phase	Description	Status
Construction	▪ Printed circuit boards received, installation to start April 2010	Ongoing
JOC Construction	▪ Wight-Hill started work 6/10/09, HVAC and roof work is substantially complete.	Close-Out

Delay Explanation:

- 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:	\$50.6M or 74.5%
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	5/2010	
Milestone 7	Tower 18 Interlocking	8/2009	6/2010	
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:	\$185.6M
Earned to Date:	\$183.4M or 99%
Percent Change Orders to Construction Contract:	7.4%
Percent Time Used to Date:	100% of original time, 100% 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	<ul style="list-style-type: none"> Partial substantial completion from Forest Park to Jefferson Park for signal work. Punch list work continues. 	Ongoing
Construction	<ul style="list-style-type: none"> Additional work: Automatic Vehicle Identification Upgrades, Worker Ahead Zone Modifications, Track Markers, and Lake Street Cable Rerouting for Blocked Duct Bank. Testing of 13th and 17th Towers started 1/25/10 and will continue for five weeks. Testing to be completed March 19, 2010. 	<p>Ongoing</p> <p>Started 1/25/10</p>

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.

