Construction Project Briefing

September 11, 2013



Today's Presentation

- Farwell/Armitage/Hill Substations
- Red Line South Reconstruction Project (Track & Station)
- Bus Hoist Replacement Program
 - ✓ Phase 1 Forest Glen, South Shops, 77th Street Bus Garage
 - √ Phase 2 Kedzie Bus Garage
 - √ Phase 3 North Park Garage
 - **✓** Phase 4 Chicago and 103rd Garage



Justification of Need:	Substation equipment is obsolete and has exceeded its current lifespan
Priority of Project:	High
Total Project Budget:	\$56,918,563.00
Construction Contract Value:	\$46,684,000.00
Earned to Date:	4%
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	34.69%
Funding Source:	State Capital Program
Estimated Start Date/Estimated Length of Project:	NTP issued September 30, 2012
Designer of Record:	Laramore, Douglass and Popham(LDP)
Construction Manager/General Contractor:	STV (CM), F.H. Paschen (GC)
Project Manager:	Barney Gray (GM); David Heard (PM)

Detailed Overview of Scope:

Construct Three (3) New Traction Power Substations namely, Farwell, Armitage, Hill

Modify Orleans Switch Room Modify Weed Switch Room Modify Sedgwick Substation



Impact on Customers:	9 Single Tracks, and 6 Reroutes. Street and lane closures around worksites, Curtailed access to resident garages(at Armitage)
Benefit to System:	Additional traction power capacity reduced traction power related train defects, improved reliability for revenue service, and improved safety.
Benefit to Community:	Improved safety.
Impact on Accessibility:	None.
Estimated # of Jobs Created:	40
Customer Communication Need:	Construction Activity Notices will be needed to alert businesses and residents to weekend, night work and power outages.

Comparable I	Projects:
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NA



Construction Progress

Phase	Description	Status
Construction	 Farwell – Excavation of embankment was completed. Reinforcing bars for mat slab being installed in preparation for concrete installation. 	Ongoing
	 Armitage – Installation of track level platforms and cable supports continues. Further work pending permit by CDOT Office of Underground Coordination (OUC). Anticipating issuance of permit in September. 	
	 Hill – Foundation removal and installation of Earth Retention System (ERS) was completed. Worksite has been excavated and sump pit has been installed. Stone installed in preparation for installation of Foundation Concrete. 	

Delay Explanation:

• CDOT OUC reviewing earth retention permit requirements for Armitage. FHP continues to coordinate with OUC as necessary.





Platform for getaways at Armitage Substation





Contractor installing reinforcing bars for foundation installation at Farwell Substation





Hill worksite, ERS and CA-7 stone, preparation for foundation installation



Project Title: Red Line South Reconstruction Project Managing Department: Power & Way Construction

Justification of Need:	The existing ties, rail and track components, as well the underlying ballast and drainage systems have reached or exceeded their useful life. In addition, this project is necessary to provide accessibility at all of the Dan Ryan stations and to improve customer experience at these stations.		
Priority of Project:	High		
Total Project Budget:	\$425M		
Funding Source:	RTA/IDOT CTA-2012-LI		
Designer of Record:	T.Y. Lin International; TranSystems Corporation		
Construction Manager:	Parsons Brinckerhoff		
Project Manager:	Robert Wittmann (GM); Brittany Dyra (PM)		
	Track Renewal	Station Improvements	
Construction Contract Value:	\$220,166,000	\$43,875,000	
Earned to Date:	\$41.0M	\$6.4M	
Percent Change Orders to Construction Contract:	(-2.1%)	0.0%	
Percent Time Used to Date:	35.9% (as of June)	66.1% (as of June)	
Estimated Start Date/Estimated Length of Project:	Notice To Proceed: October 4, 2012 Substantial Completion: October 24, 2014	Notice To Proceed: December 21, 2012 Substantial Completion: October 6, 2013	
General Contractor:	Kiewit Infrastructure Co.	F.H. Paschen, S. N. Nielsen & Associates, LLG	



Project Title: Red Line South Reconstruction Project Managing Department: Power & Way Construction

Impact on Customers:	The Dan Ryan Red Line branch from Cermak to 95 th will be shutdown for 154 days from May 19 th , 2013 to October 20, 2013. There may be single track outages prior to the line cut to perform preparatory work.
Benefit to System:	Reduced maintenance costs; Improved reliability; New infrastructure
Benefit to Community:	Improved customer travel times by eliminating slow zones; New elevators at Garfield, 63 rd and 87 th
Impact on Accessibility:	Garfield, 63 rd and 87 th stations will be accessible.
Estimated # of Jobs Created:	1150
Customer Communication Need:	Preliminary outreach started last fall. A comprehensive outreach plan will be implemented to ensure all customers clearly understand travel alternatives and construction impacts.

Detailed Overview of Scope:

- The limits of the project are the South subway portal near 16th/Clark on the north to approximately 95th Street on the south and including portions of the 18th Connector.
- Replacement of deteriorated track components, including new running rail, ties, fasteners, ballast, and drainage improvements.
 Structural work includes expansion joint replacement, new waterproofing, concrete repairs. Systems work includes contact rail replacement, new supplemental negative return, temporary relocation and/or replacement of existing signal and communications infrastructure.
- Rehabilitation of various architectural, civil, structural, mechanical and electrical elements at eight (8) stations along the Dan Ryan Red Line branch: Cermak/Chinatown, Sox/35th, 47th, Garfield, 63rd, 69th, 79th, and 87th. This work includes interior and exterior painting, platform canopy repairs, lighting and window repairs, and station cleaning.
- Construction of new elevators at Garfield, 63rd and 87th stations.
- New railing at the 69th St. bus bridge.

Project Title: Red Line South Reconstruction Project Managing Department: Power & Way Construction

Construction Progress

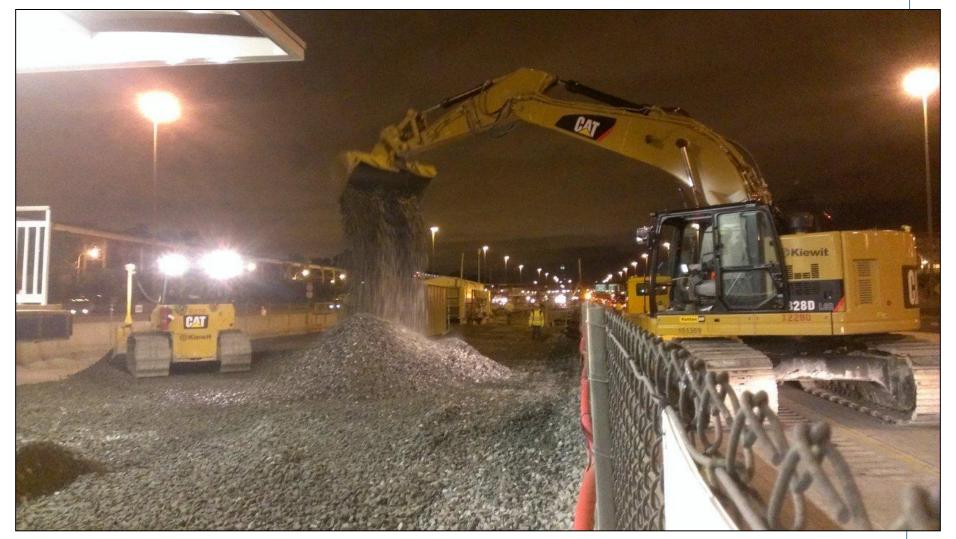
Phase	Description	Status
Construction	Red South is on schedule and budget with 46 days left as of 9/3. The primary duct bank was completed 8/22. Excavation for the drainage system is complete and back fill will complete this week. The last section of ballast installation is underway between 47th and 35th. As noted my last report track has been installed from 95th to 63rd and is now in progress between 63rd and 47th. Signal and traction power testing is in progress from 95th through 69th.	Ongoing
	The northern section of the project from 16th to 35th station shows a similar level of completion with track installed throughout.	
	The station contractor is also on schedule and budget. Elevator tower work continues with the electrical feed work complete at 63rd, Garfield and 87th. Exterior elevator panels are complete at 63rd, will be complete this week at 87th and in progress at Garfield. Interior elevator cab construction is underway at Garfield, 63rd and 87th. Painting continues throughout.	

Delay	Explanation:
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• N/A



Project Title: Red Line South Reconstruction Project Managing Department: Power & Way Construction



BALLAST INSTALLATION



Project Title: Bus Hoist Replacement Program Managing Department: Facilities Construction

Justification of Need:	The existing bus hoists are beyond their useful life and many are not functioning.:			
Priority of Project:	High			
Construction Phase	Phase 1:	Phase 2:	Phase 3:	Phase 4:
Bus Hoist Equipment Contract Value:	\$1,668,052	\$1,163,892	\$779,769	\$1,066,901
Construction Contract Value:	\$2,663,345	\$3,135,143	\$1,869,630	\$2,820,651
Construction Value Earned to Date:	\$2,910,153	\$1,069,726	\$334,448	\$0
Percent Change Orders to Construction Contract:	25%	0%	0%	0%
Percent Time Used to Date:	90%	66%	28%	0%
Estimated Start and Completion Date:	NTP 11/21/12 Projected completion 9/30/13.	NTP 3/4/13 Projected completion 11/30/13.	NTP 6/24/13 Projected completion 1/22/14.	NOPA Routing Projected completion 4/10/14.
Designer of Record:	TranSystems Corporation			
Contractor	Paul Borg	Kiewit	F.H. Paschen	F.H. Paschen
Project Manager:	Steve Mascheri (GM); Shawn Riley (PM); Jacobs (CM)			

Detailed Overview of Scope:

Replacement of bus maintenance lifts including drainage, electrical work, and maintenance pads. Project has been sequenced to mitigate interference to CTA Bus Operations.



Project Title: Bus Hoist Replacement Program – Phase 1 Managing Department: Facilities Construction

Impact on Customers:	N/A
Benefit to System:	Improved capacity for maintenance facilities and reliable equipment for bus operations.
Benefit to Community:	N/A
Impact on Accessibility:	N/A
Estimated # of Jobs Created:	60 (phases 1 thru 3)
Customer Communication Need:	N/A

Comparable Projects:

• N/A



Project Title: Bus Hoist Replacement Program – Phase 1 Managing Department: Facilities Construction

Construction Progress

Phase	Description	Status
Phase 1	 Project has been sequenced to minimize impact to Bus Operations and Maintenance. 	Construction
	Forest Glen – 7 lifts installed. Close out in progress.	
	South Shops – 4 lifts installed and operational. Close out in progress.	
	77 th Garage – 7 lifts installed. Work at 4 of the 11 remaining pits in progress.	
Phase 2	 Kedzie Garage – 2 lifts operational, Work at 2 more of the 12 pits is in progress. Work on the wash pit and inspection pit are in progress. 	Construction
Phase 3:	 North Park Garage – Work on 5 of the 9 pits in progress. 	Construction
Phase 4:	■ 103 rd and Chicago Garages – NOPA Routing for signature 8/14/13.	Construction

Delay Explanation:

Phase 1: Elevation differential in underground drainage has resulted in the requirement to place new drainage lines as opposed to tying into existing drainage lines

Phase 2: No delay.

Phase 3: No delay

Project Title: Bus Hoist Replacement Program Managing Department: Facilities Construction



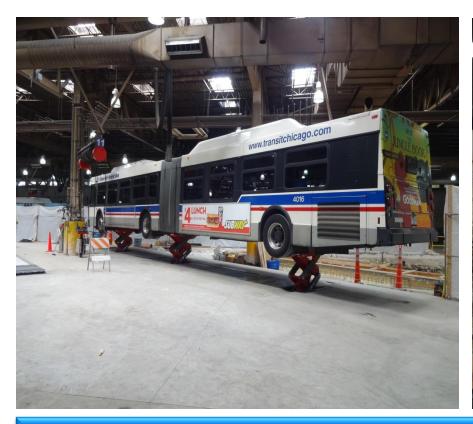


North Park – Underground Piping

Kedzie – Bays 9 & 10 Pit Walls



Project Title: Bus Hoist Replacement Program Managing Department: Facilities Construction





Kedzie – Bays 11 & 12 Operational

Kedzie Wash Bay & Inspection Pit Walls

