Construction Project Briefing

April 16, 2014



Today's Presentation

- Traction Power Farwell/Armitage/Hill Substations
- 18th Connector Track and Structure Renewal
- Harrison Station Rehabilitation
- Bus Hoist Replacement Program
 - **✓** Phase 1 Forest Glen, South Shops, 77th Street Bus Garage
 - √ Phase 2 Kedzie Bus Garage
 - **✓** Phase 2 North Park Garage
 - √ Phase 2 Chicago and 103rd Garage
- Milwaukee Blue Line Track Renewal



Justification of Need:	Substation equipment is obsolete and has exceeded its current lifespan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:	32%
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	69%
Funding Source:	State Capital Program
Estimated Start Date/Estimated Length of Project:	NTP issued August 30, 2012; substantial completion 810 days after NTP
Designer of Record:	Laramore, Douglass and Popham (LDP)
Construction Manager/General Contractor:	STV (CM), F.H. Paschen (GC)
Project Manager:	Barney Gray (GM); Premal Vora (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:	Nine single tracks, and six reroutes. Street and lane closures around worksite 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:	89	
Customer Communication Need:	Construction activity notices will be needed to alert businesses and residents to weekend, night work and power outages.	

Comparable Projects:

• NA



Construction Progress

Description	Status
 Farwell – Ductbank risers will be installed this spring. Section gap installation work is complete. Exterior masonry work is complete (with the exception of the west wall – requires warmer weather due to space constraints). Site utilities are being installed. 	Ongoing
 Armitage – CTA track column replacement work continues with earth retention installation, excavation, lagging and bracing installation followed by temporary shoring in order to remove and replace twenty-seven column foundations. Exterior column foundation replacement is complete. 	
 Hill – Exterior masonry work is on going. Interior finishing, including painting and utility rough in, is on going. Ductbank work is continuing, with earth retention installation and excavation, followed by conduit installation. 	
	 Farwell – Ductbank risers will be installed this spring. Section gap installation work is complete. Exterior masonry work is complete (with the exception of the west wall – requires warmer weather due to space constraints). Site utilities are being installed. Armitage – CTA track column replacement work continues with earth retention installation, excavation, lagging and bracing installation followed by temporary shoring in order to remove and replace twenty-seven column foundations. Exterior column foundation replacement is complete. Hill – Exterior masonry work is on going. Interior finishing, including painting and utility rough in, is on going. Ductbank work is continuing, with earth retention

Delay Explanation:

- First floor of Farwell Substation does not meet flatness requirements of equipment. Floor topping is being redone. Equipment will be installed once the floor meets requirements.
- Unforeseen underground conditions and a high water table have been encountered within CTA Right of Way at Armitage Substation, creating delay and requiring a site dewatering plan for future excavation work.
- Unsuitable soils and unforeseen underground conditions have been encountered within CTA Right of Way in the Hill Ductbank installation.



Project Title: Traction Power Systems Upgrades and Improvements Managing Department: Power & Way Construction



Farwell Substation



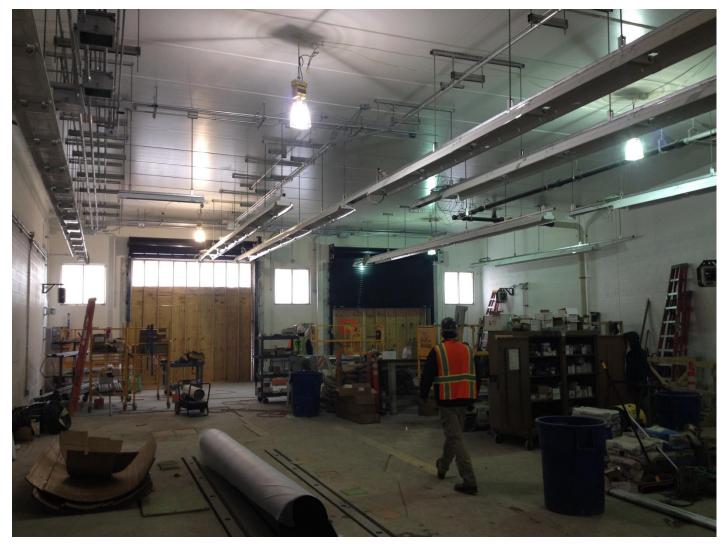
Project Title: Traction Power Systems Upgrades and Improvements Managing Department: Power & Way Construction



Armitage Substation: new column foundation



Project Title: Traction Power Systems Upgrades and Improvements Managing Department: Power & Way Construction



Hill Substation: interior





Hill Ductbank: new conduit installation



Project Title: 18th Connector Track and Structure Renewal

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.
Priority of Project:	High
Total Project Budget:	\$425M
Construction Contract Value:	\$220,129,367
Earned to Date:	\$194.1M
Percent Change Orders to Construction Contract:	0.0%
Percent Time Used to Date:	72.4% (as of March)
Funding Source:	RTA/IDOT CTA-2012-LI; City of Chicago TIF
Estimated Start Date/Estimated Length of Project:	Notice To Proceed: October 4, 2012 Substantial Completion: October 24, 2014
Designer of Record:	T.Y. Lin International; TranSystems Corporation
Construction Manager:	Parsons Brinckerhoff
Project Manager:	Brittany Dyra (GM)
General Contractor:	Kiewit Infrastructure Co.

Project Title: 18th Connector Track and Structure Renewal

Construction Progress

Phase	Description	Status
Construction	Kiewit Infrastructure Co. (KIC) is preparing for upcoming work along the 18 th Connector. The scope of this work includes replacement of various track components including ties, rail, ballast, drainage, contact rail and the installation of a new walkway. In addition, KIC will complete structure painting.	Ongoing

Delay	Exp	lanati	on:
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N/A



Project Title: Harrison Station Rehabilitation

Justification of Need:	The station is old and suffers from extensive leaking and water damage
Priority of Project:	High
Total Project Budget:	\$10,000,000
Construction Contract Value:	\$6,400,000
Earned to Date: (thru January)	14.0%
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	35%
Funding Source:	TIF
Estimated Start Date/Estimated Length of Project:	NTP issued November 26 th , 2013; Final Acceptance scheduled 330 days after NTP
Design/Build Contractor	Kiewit Infrastructure (DBC) Altus Works (Lead Design Subconsultant)
Construction Manager:	Parsons Brinkerhoff (CM),
Project Manager:	Steven Mascheri (GM); Charles Freeman (PM)

Detailed Overview of Scope:

New station finishes including:

- New flooring, wall finishes, signage upgrades
- Lighting replacement (LED)
- New stair enclosures at Harrison entrances



Project Title: Harrison Station Rehabilitation

Impact on Customers:	One 42 day Polk entrance closure from April thru May One 42 day Harrison entrance closure from June thru July Various weekend station closures
Benefit to System:	This project will mitigate the water infiltration problem at both entrances to the station platform and provide a safer, more user friendly fare control design.
Benefit to Community:	Improved safety/customer comfort/finishes
Impact on Accessibility:	None.
Estimated # of Jobs Created:	72
Customer Communication Need:	Construction activity notices will be needed to alert businesses, schools, and residents to weekend work, night work, and service interruptions.

Comparable Projects:

• Station renovation portion of the North Main Line Station Renovation Project (2012)



Project Title: Harrison Station Rehabilitation

Construction Progress

Description	Status
 Polk Street Entrance – Location of the source of the water infiltration, management of water infiltration, replacement of the wall surfaces, flooring surfaces, and new fare equipment installation. 	Polk entrance closure: April – May '14
 Harrison Street Entrance – Location of the source of the water infiltration, management of water infiltration, replacement of the wall surfaces, flooring surfaces, and new fare equipment installation. Installation of two (2) new entry Kiosks on the East and West entrances at street level. 	Harrison entrance closure: June – July '14
 Platform – Removal of the topping slab and installation of new granite flooring. New lighting and signage throughout. 	Weekend station closures
	 Polk Street Entrance – Location of the source of the water infiltration, management of water infiltration, replacement of the wall surfaces, flooring surfaces, and new fare equipment installation. Harrison Street Entrance – Location of the source of the water infiltration, management of water infiltration, replacement of the wall surfaces, flooring surfaces, and new fare equipment installation. Installation of two (2) new entry Kiosks on the East and West entrances at street level. Platform – Removal of the topping slab and installation of new granite flooring.

Delay Explanation:

N/A



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: 77 th /SS/ Forest Glen	Phase 2: Kedzie	Phase 2: North Park	Phase 2: Chicago/103 rd
Bus Hoist Equipment Contract Value:	\$1,668,052	\$1,163,892	\$779,769	\$1,066,901
Construction Contract Value:	\$2,663,345	\$3,145,143	\$1,869,630	\$2,820,651
Value Earned to Date (Construction and Hoists):	\$4,288,084	\$4,227,808.00	\$2,551,989	\$1,400,820
Percent Change Orders to Construction Contract:	25%	0%	0%	0%
Percent Time Used to Date:	99%	99%	95%	50%
Estimated Start and Completion Date:	NTP 11/21/12 Projected completion 10/18/13.	NTP 3/4/13 Projected completion 12/20/13.	NTP 6/24/13 Projected completion 3/05/14.	NTP 9/10/13 Projected completion 08/11/14.
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)			
Funding Source:	FTA and RTA Grants			

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.



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:	80 (phases 1 thru 4)
Customer Communication Need:	N/A

Comparable Projects:

• N/A



Construction Progress

Phase	Description	Status
Phase 1:	■ Forest Glen – Close out in progress.	Closeout
	South Shops – Close out in progress.	
	■ 77 th Garage –Close out in progress.	
Phase 2:	 Kedzie Garage – 12 lifts total: 12 lifts installed. Punch list and substantial completion have been issued. 	Close Out
	 North Park Garage – 13 lifts total: 13 lifts installed. Punch list and substantial completion have been issued. 	Punch list
	 103rd and Chicago Garages –9 lifts total: 4 have been installed at Chicago and 5 are currently being installed at 103rd (they will be turned over by March 24, 2014). Substantially complete with wash bays and inspection bays by August 2014. 	Construction

Delay Explanation:

Phase 1: Due to the elevation of the existing drainage lines they could not be reused and new lines needed to be installed.

Phase 2: Equipment installation dates were extended to better accommodate installation of hoists and minimize impact to bus operations. Three week delay at 103rd Garage due to failed drainage (sump pump) equipment.



103rd- Lift Install



Chicago- Bay 12 Demolition



Justification of Need:	The existing ties and track components have reached or exceeded their useful life, resulting in slow zones between Damen Station and Kimball Subway.
Priority of Project:	High
Total Project Budget:	\$30,264,684
Construction Contract Value:	\$20,395,680 (Design/Build)
Earned to Date:	16% (design and mobilization)
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	31%
Funding Source:	FTA/IDOT
Estimated Start Date/Estimated Length of Project:	NTP Issued August 30, 2013; Substantial Completion January 31, 2015 (NTP + 519 Days)
Designer of Record:	HW Lochner (for Kiewit Infrastructure Co.)
Construction Manager/General Contractor:	Parsons Brinckerhoff (CM), Kiewit Infrastructure Co. (DBC)
Project Manager:	John Titzer (GM); William Polacek (PM)

Detailed Overview of Scope:

- Improvements to 18,680 track feet along the elevated portion of the Logan Square Connector on the O'Hare Blue Line.
- Scope includes replacement of ties, plates, timber guard, other track material and footwalk from North of Damen Station to the Kimball Subway Portal.
- Damen/North Ave reverse curves will be reconstructed to increase speed through the curve.



Impact on Customers:	Ten line cuts and two single tracks. Street and lane closures around worksites, curtailed access to resident garages under the right of way. Bus shuttles required on line cut weekends.
Benefit to System:	Reduced maintenance costs; Improved reliability; New infrastructure
Benefit to Community:	Improved customer travel times by eliminating slow zones
Impact on Accessibility:	None.
Estimated # of Jobs Created:	82
Customer Communication Need:	Construction activity notices will be needed to alert businesses and residents to weekend, night work and power outages.

Comparable Projects:

- Englewood Green Line Track work
- Ravenswood-Loop Connector Project



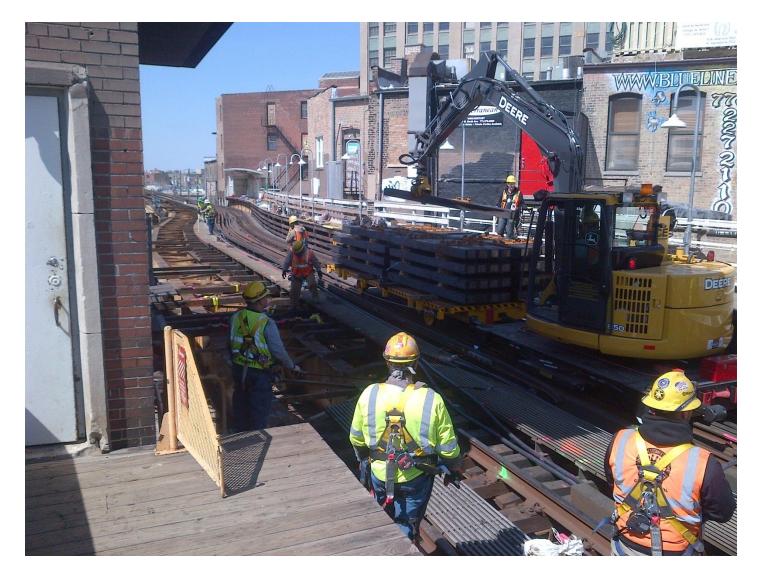
Construction Progress

Phase	Description	Status
Design	■ Milestone 1 – RFP Validation	Complete
Design	■ Milestone 2 – 90% Design	Complete
Design	■ Milestone 3 – 100% Design	Complete
Construction	Mobilization	Complete
Construction	 Contractor preparing for first line cut weekend, which is currently scheduled for the weekend of March 21st. (Western to Logan Square) 	Ongoing
Construction	 Contractor is preparing for second line cut weekend, which is currently scheduled for the weekend of April 4th. (Western to Damen) 	Ongoing
Construction	 Contractor is preparing for Third line cut weekend, which is currently scheduled for the weekend of April 11th. (Western to Damen) 	Ongoing
Construction	 Contractor is preparing for Fourth line cut weekend, which is currently scheduled for the weekend of April 25th. (Western to Damen) 	Ongoing

Delay Explanation:

N/A





Tie installation at Damen

