# Construction Project Briefing

January 7, 2013



# **Today's Presentation**

- Traction Power Farwell/Armitage/Hill Substations
- Bus Hoist Replacement Program

✓ Phase 1 – Forest Glen, South Shops, 77<sup>th</sup> Street Bus Garage

- ✓ Phase 2 Kedzie Bus Garage
- ✓ Phase 3 North Park Garage
- ✓ Phase 4 Chicago and 103<sup>rd</sup> 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Justification of Need:	Substation equipment is obsolete and has exceeded its current lifespan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:	24%
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	57%
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); 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 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:	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			



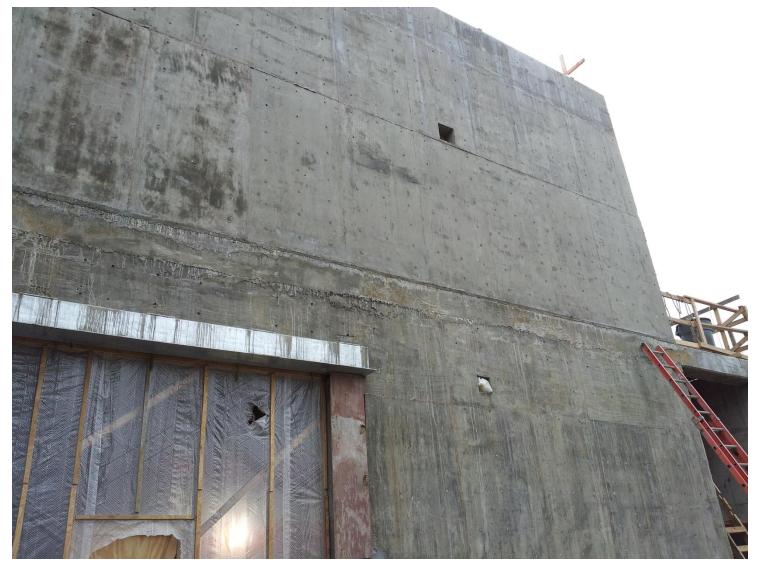
#### **Construction Progress**

<ul> <li>is proceeding w by delivery and</li> <li>Armitage – CT installation, exporter to removinstallation has sequence the w</li> <li>Hill – Masonry installation. Th While the build cast roof plank</li> </ul>	ctural work for the substation is complete. Work will continue with masonry s. Roofing work and exterior framing work will continue. The interior work with painting and dielectric flooring installation. Equipment testing, followed d installation, is scheduled for the beginning of the year. A track column replacement work continues with earth retention cavation, lagging and bracing installation followed by temporary shoring in re and replace twenty-seven column foundations. Initial drilling and H-Pile s revealed unknown existing conditions that requires the contractor to re- work, but has not stopped progress at the site. work has progressed with the concrete block 1 <sup>st</sup> floor structural wall e masonry work will continue with the façade brick and stone finishes. ling is progressing, site work will also be completed for utilities. The pre- tinstallation will be completed while masonry is being finished. The will continue with earth retention installation and excavation, followed by ation.	Ongoing

#### **Delay Explanation:**

- Unforeseen underground conditions have been encountered within CTA Right of Way at Armitage Substation.
- High water table on site at Armitage caused CDOT to request a site dewatering plan for future excavation work.





Farwell Substation: stripped east wall





Farwell Substation: 1<sup>st</sup> floor painting





Armitage Substation: excavation around column base





Hill Substation: transformer pad concrete pour



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

Justification of Need:	The existing bus hoists a	re beyond their useful life a	and many are not functioning	g.:
Priority of Project:	High			
Construction Phase	Phase 1: 77 <sup>th</sup> /SS/ Forest Glen	Phase 2: Kedzie	Phase 2: North Park	Phase 2: Chicago/103 <sup>rd</sup>
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	\$3,878,131	\$2,251,989	\$0
Percent Change Orders to Construction Contract:	25%	0%	0%	0%
Percent Time Used to Date:	99%	90%	85%	0%
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 7/09/14.
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.



# 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:	80 (phases 1 thru 4)
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:	<ul> <li>Forest Glen – Close out in progress.</li> </ul>	Closeout
	<ul> <li>South Shops – Close out in progress.</li> </ul>	
	<ul> <li>77<sup>th</sup> Garage –Close out in progress.</li> </ul>	
Phase 2:	<ul> <li>Kedzie Garage – 12 lifts total: 8 lifts installed, working on the last 4 lifts. Work on the wash pit and inspection pit are 85% Complete. Concrete pits at the last 4 bays are being completed. Lifts scheduled to be installed by Mid-December 2013.</li> <li>North Park Garage – 13 lifts total: 5 lifts installed, work ongoing at 4 more lifts. Lifts at bays 6-9 will be installed by Mid-December.</li> <li>103<sup>rd</sup> and Chicago Garages – NTP issued 9/10/13. Demolition for phase 1 has started.</li> </ul>	Construction Construction 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.



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



**Chicago-Excavation** 



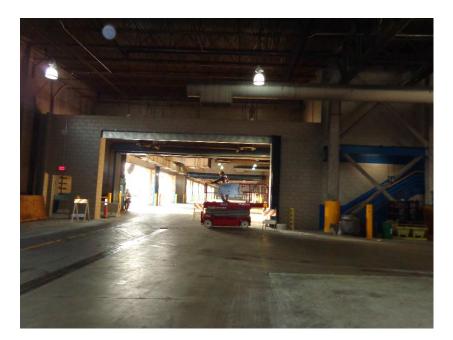
#### **Chicago- Pits Formed**



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



103<sup>rd</sup>- Demolition



Kedzie – High Speed Door

