

# **Construction Project Briefing**

**January 9, 2019**



# Today's Presentation

- **ELMI – East Lake, Milwaukee, Illinois Substation Upgrade**
- **95<sup>th</sup> Street Terminal Improvement Program**
- **Quincy Loop Station Upgrade**
- **Belmont and Jefferson Park Station Improvements (Blue Line)**
- **Garfield Green Station Renovation**
- **Red Purple Modernization Project**



# Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade

Justification of Need:	The existing traction power equipment at these substations is well past its useful life and needs to be replaced to assure reliable 600-volt DC traction power. Rehabilitate the substation buildings to a state of good repair.
Priority of Project:	High
Total Project Budget:	\$ 69M
Construction Contract Value:	\$ 42.9M
Earned to Date:	48.5%
Percent Change Orders to Construction Contract:	0
Percent Time Used:	60%
DBE:	Goal: 20% / Commitment: 20% Contract is on track to meet the DBE goal Outreach events conducted: 2 (CTA)
Funding Source:	CTA Bonds, RTA Bonds
Estimated Start Date/Estimated Length of Project:	NTP: April 10, 2017; Substantial Completion March 8, 2020
Designer of Record:	T.Y. Lin International
Construction Manager/General Contractor:	STV

**Detailed Overview of Scope:**

Rehabilitation of existing buildings and building envelopes to a state of good repair at East Lake, Milwaukee, and Illinois. Scope of work includes replacement of roof, tuck-pointing, hazardous material abatement, structural repairs and improvements, plumbing and mechanical repairs and improvements, and electrical repairs and improvements.

Replace existing AC/DC conversion equipment at all locations and getaway cables at East Lake.

Part of the scope of this project includes CTA purchasing 10 East Lake from ComEd.



# Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade

Impact on Customers:	There will be minimum impact to CTA customers.
Benefit to System:	<ul style="list-style-type: none"><li>• Additional traction power capacity</li><li>• Reduced traction power related train defects</li><li>• Improved reliability for revenue service</li><li>• Improved safety</li></ul>
Benefit to Community:	Improved Reliability and Safety
Impact on Accessibility:	None
Estimated # of Jobs Created:	897 indirect, 188 direct
Customer Communication Need:	Construction activity notices will be provided to inform businesses and residents regarding temporary construction impacts (noise, dust, street/alley closures) throughout the project.

## Comparable Projects:

- Traction Power Systems Upgrades and Improvements Kimball, Princeton, and State Substation Projects.



# Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade

## Construction Progress

Phase	Description	Status
<p><b>Construction</b></p>	<ul style="list-style-type: none"> <li>• Traction power testing is ongoing at Illinois Substation.</li> <li>• Traction power cable installation is ongoing at Illinois and Milwaukee Substation</li> <li>• Final building repairs are being completed at Illinois and Milwaukee Substations</li> <li>• All of the DC Switchgear is in service at Milwaukee Substation.</li> <li>• Transformers, Rectifiers and AC Switchgear are being tested at Milwaukee Substation and placed in service.</li> <li>• Demolition of existing traction power equipment is complete at Illinois and Milwaukee.</li> <li>• Manufacturing of traction power equipment is in progress at East Lake Substation.</li> <li>• Factory Acceptance Testing of traction power equipment at East Lake Substation is progressing.</li> <li>• Tuckpointing, masonry, demo, and lead paint abatement is in progress at East Lake Substation.</li> </ul>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Completed</p> <p>Ongoing</p> <p>Completed</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>

N/A



# Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade



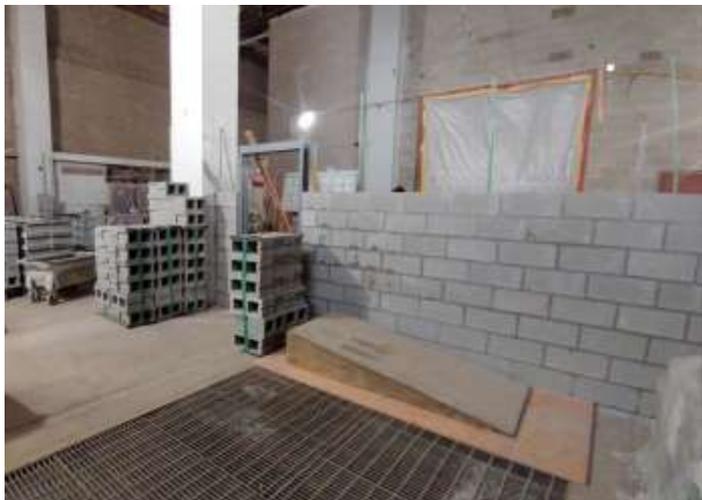
Battery Installation at Illinois Substation



Concrete Transformer Pads Poured at Milwaukee Substation



# Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade



Interior CMU Wall Installation at East Lake Substation



# Project Title: 95<sup>th</sup> Terminal Improvement Program

Justification of Need:	The terminal is functionally obsolete and does not allow for optimal bus operations and pedestrian flow.
Priority of Project:	High
Total Project Budget:	\$280 M
Construction Contract Value:	Advance Package 1: \$ 2,482,588 Advance Package 2: \$24,697,210 Main Terminal Contract: \$188,395,277
Earned to Date:	Advance Package 1: 100% Advance Package 2: 100% Main Terminal Contract: 88%
Percent Change Orders to Construction Contract:	Advance Package 1: (0.3%) Advance Package 2: 7% Main Terminal Contract: 4.7%
Percent Time Used:	Advance Package 1: 100% Advance Package 2: 100% Main Terminal Contract: 100%
DBE:	Advance Package 1: Goal: 30% / Commitment: 35.19% / Final Attainment*: 37.26%  Advance Package 2: Goal: 30% / Commitment: 30% / Final Attainment*: 37.80%  Main Terminal Contract: Goal: 27% / Commitment: 27% Contract is on track to meet the DBE goal  Outreach events conducted: 8  *Attainment is based on progress payments and may vary over the life of the project
Funding Source:	Federal, State, Bond



# Project Title: 95<sup>th</sup> Terminal Improvement Program

Estimated Start Date/Estimated Length of Project:	Main Terminal Contract: NTP: Nov 24, 2015; North Terminal – Terminal operational December 30, 2018.
AP1/AP2 Construction Manager/General Contractor:	Walsh / Il in One JV
Main Terminal Contractor:	F.H. Paschen / Milhouse JV
Owners Representative:	Jacobs/SQN JV

**Detailed Overview of Scope:**

The 95th Terminal Improvement Project will create new South and North terminal buildings at 95th on the Dan Ryan Red Line. The new terminal buildings will create a functional and efficient intermodal facility to enhance bus service and improve pedestrian safety. Scope includes the replacement and expansion of the terminal and platform and the addition of bus and pedestrian bridges. New administrative office space will be built and new bus bays will be provided around the terminal buildings.



# Project Title: 95<sup>th</sup> Terminal Improvement Program

Impact on Customers:	Track closures and weekend station closures during construction. Temporary relocation of certain bus operations to nearby streets during construction phasing.
Benefit to System:	Improved customer circulation and safety by relieving congestion. Improved bus service and improved pedestrian safety.
Benefit to Community:	Improved pedestrian safety with new pedestrian bridge over 95 <sup>th</sup> Street, longer train platform extending to the new South Terminal Building.
Impact on Accessibility:	New south and north terminal buildings with improved accessible routes to buses.
Estimated # of Jobs Created:	3,640 indirect, 762 direct
Customer Communication Need:	Requires periodic track closures and possible station closures with bus shuttle service. Bus Operations may be relocated to adjacent streets during certain phases of construction.

<b>Comparable Projects:</b>
<ul style="list-style-type: none"> <li>Wilson Station</li> </ul>



# Project Title: 95<sup>th</sup> Terminal Improvement Program

## Construction Progress

Phase	Description	Status
<b>Construction</b>	<ul style="list-style-type: none"> <li>▪ South Terminal:                             <ul style="list-style-type: none"> <li>▪ Various punchlist work is ongoing.</li> </ul> </li>   <li>▪ North Terminal Building:                             <ul style="list-style-type: none"> <li>▪ Interior room and wall construction is complete.</li> <li>▪ Buildout of the interior concourse level continues; wall finishes, painting, granite flooring, and wayfinding signage installation is ongoing.</li> <li>▪ Red ribbon metal panel installation is nearly complete.</li> <li>▪ Electrical conduit/wire rough-ins and plumbing installation at the concourse level and platform level is ongoing.</li> <li>▪ Escalator and elevator city inspection is complete</li> <li>▪ Pedestrian Bridge structural slab and roofing complete; curtain wall and red ribbon metal panel installation is ongoing.</li> <li>▪ Communications devices such as cameras, speakers, phones, and digital train tracker / bus</li> </ul> </li>   <li>▪ North Terminal Bus Area:                             <ul style="list-style-type: none"> <li>▪ Site area fencing installation is complete.</li> <li>▪ Bus canopy panel installation is ongoing; electrical and communication device installation is ongoing.</li> <li>▪ Bus shelters and bus supervisor kiosk installation is ongoing.</li> <li>▪ Bus movement testing is complete, bus bay assignments finalized, and CTA Bus Operator training for the new terminal is ongoing.</li> </ul> </li>   <li>▪ 96<sup>th</sup> Interlocking work continues; testing and commissioning expected to be complete Q1 2019 allowing for full operational service</li> </ul>	<p>Ongoing</p> <p>Complete Ongoing</p> <p>Ongoing Ongoing</p> <p>Complete Ongoing</p> <p>Ongoing</p> <p>Complete Ongoing</p> <p>Ongoing Ongoing</p> <p>Ongoing</p>
<b>Delay Explanation:</b>		
N/A		



# Project Title: 95<sup>th</sup> Terminal Improvement Program



95<sup>th</sup> Street North Terminal Opening



# Project Title: 95<sup>th</sup> Terminal Improvement Program



95th Street Pedestrian Bridge



# Project Title: 95<sup>th</sup> Terminal Improvement Program



North Terminal Building Interior



# Project Title: 95<sup>th</sup> Terminal Improvement Program



Pedestrian Bridge Connection North and South Terminals



# Project Title: Quincy Loop Station Upgrade

<b>Justification of Need:</b>	The Station is not currently accessible. The project will provide another accessible Loop station, as well as provide additional repairs and improvements throughout the station.
<b>Priority of Project:</b>	High
<b>Total Project Budget:</b>	\$18M
<b>Construction Contract Value:</b>	\$11.7M
<b>Earned to Date:</b>	86%
<b>Percent Change Orders to Construction Contract:</b>	0
<b>Percent Time Used:</b>	100%
<b>DBE:</b>	Goal: 30%, Commitment: 30% Contract is on track to meet the DBE goal Outreach events conducted: 1 (CTA)
<b>Funding Source:</b>	TIF, CTA Bonds
<b>Estimated Start Date/Estimated Length of Project:</b>	NTP: July 27, 2016; Contract substantial Completion, February 1, 2018 (Actual projected – 4 <sup>th</sup> Qtr. 2018)
<b>Designer of Record:</b>	Exp US Services
<b>Construction Manager/General Contractor:</b>	Parsons Brinckerhoff/Ragnar Benson Construction, LLC

**Detailed Overview of Scope:** The station will include the following features:

- Two (2) new Elevators with connection bridges to stationhouses.
- One new exit stair.
- New electrical service.
- New and upgraded Electrical fixtures.
- Painting upgrades.
- Replacement of existing wood floors with new tile floors at both stationhouses.



# Project Title: Quincy Loop Station Upgrade

## Construction Progress

Phase	Description	Status
<b>Construction</b>	<p><b><u>Street Level, East Side:</u></b></p> <ul style="list-style-type: none"> <li>• East elevator is completed and opened for service.</li> <li>• Elevated connection bridge walkway build out is completed and opened for service.</li> <li>• East elevator control closet roof installation continues.</li> <li>• City elevator inspection punch list correction items continues.</li> </ul> <p><b><u>Street Level, West Side:</u></b></p> <ul style="list-style-type: none"> <li>• West elevator is completed and opened for service</li> <li>• Elevated connection bridge walkway build out is completed and opened for service.</li> <li>• West elevator control closet roof installation continues..</li> </ul> <p><b><u>Other planned activities:</u></b></p> <ul style="list-style-type: none"> <li>• Electrical conduit /wiring installation throughout the station continues.</li> <li>• New janitor closets build out continues with doors and panel installation.</li> <li>• New drop metal ceiling installation and lighting at mezzanine level completed.</li> <li>• New station access ADA doors installation are completed and opened for service.</li> <li>• New exit stair build out is completed and opened for service.</li> <li>• Street site work, light poles, concrete sidewalk and curbs continues</li> <li>• Exit stairs, railings, barriers and gates build out continues.</li> </ul>	<p>Completed</p> <p>Completed</p> <p>Ongoing</p> <p>Ongoing</p> <p>Completed</p> <p>Completed</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Ongoing</p> <p>Ongoing</p>



# Project Title: Quincy Loop Station Upgrade



New Elevator Connection Walkway Bridge



# Project Title: Quincy Loop Station Upgrade



New Elevator Connection Walkway Bridge



# Project Title: Quincy Loop Station Upgrade



New Elevator Entrance Street Level



# Project Title: Quincy Loop Station Upgrade



New Elevator Platform Level



# Project Title: Belmont and Jefferson Park Station Improvements

Justification of Need:	Most elements of the Belmont and Jefferson Park Stations have not experience major renovation or updating since being built in 1970. In order to bring both stations to a state of good repair, upgrades are required. In addition, Jefferson Park Bus Terminal will be brought up to current ADA standards.
Priority of Project:	High
Total Project Budget:	\$ 42.2 M
Construction Contract Value:	\$ 30.8 M
Earned to Date:	36% (thru Nov)
Percent Change Orders to Construction Contract:	0
Percent Time Used:	66%
DBE:	Goal: 30% / Commitment: 30% Contract is on track to meet the DBE goal <b>Outreach events conducted: 2 (CTA HQ and Community First Hospital)</b>
Funding Source:	CTA PBV, CTA Bonds, RTA Bonds, IDOT, FTA, TIF, TIFIA
Start Date/Length of Project:	NTP: October 16, 2017; Substantial completion Belmont & Jefferson Park Rail Stations: December 31, 2018; Substantial completion Belmont Bus turnaround and canopy; 1 <sup>st</sup> quarter 2019; and Substantial completion Jefferson Park Bus Terminal: July 8, 2019
Designer of Record:	EXP
Construction Manager/General Contractor:	Parsons Brinckerhoff/Walsh Construction

**Overview of Scope:** Both the Belmont and Jefferson Park Stations will be brought to a state of good repair. Scope of work includes electrical and lighting upgrades, floor replacements, sidewalk repair, updated signage, wall repairs, water mitigation, and improved customer amenities. Belmont will also receive a Gateway Canopy element that will invoke a sense of community and protect customers from the elements. Jefferson Park Bus terminal will be brought to current ADA standards via larger bus islands, improved lighting and signage, and repaired pavement and sidewalks.



# Project Title: Belmont and Jefferson Park Station Improvements

Impact on Customers:	<ul style="list-style-type: none"> <li>• 8 Weekend Station Closures at Belmont</li> <li>• Belmont Bus Turnaround Closed up to 90 Days for Construction</li> <li>• 8 Weekend Single Tracks</li> <li>• 45 Nightly Single Tracks</li> <li>• Longitudinal Partial Platform Closures: 3 weeks each side at Belmont and Jefferson Park</li> <li>• One half of Jefferson Park Bus Terminal Closed at a time (Bus stops temporarily relocated) during terminal construction</li> </ul>
Benefit to System:	Extensive renovations to both stations. Jefferson Park Bus Terminal will meet current ADA standards.
Benefit to Community:	Improved reliability, safety and accessibility
Impact on Accessibility:	Improves accessibility in the Jefferson Park Bus Terminal.
Estimated # of Jobs Created:	546 indirect, 114 direct
Customer Communication Need:	Construction activity notices and customer notices will be needed to alert customers, businesses and residents to weekend and night work occurrences. Extensive communication will be required for weekend closures, extended partial platform closures, and bus terminal closures.

<b>Comparable Projects:</b>	
<ul style="list-style-type: none"> <li>• O'Hare Line – Addison, Irving Park, Montrose, Harlem, and Cumberland Station Renovations</li> </ul>	



# Project Title: Belmont and Jefferson Park Station Improvements

## Construction Progress

Phase	Description	Status
<b>Design</b>	<ul style="list-style-type: none"><li>• Achieve Final Design</li></ul>	Complete
<b>Construction</b>	<ul style="list-style-type: none"><li>• Topping Slab Replacement at Belmont Platform</li></ul>	Complete
	<ul style="list-style-type: none"><li>• Construction at Belmont Station</li></ul>	Ongoing
	<ul style="list-style-type: none"><li>• Installation of Belmont Gateway Canopy</li></ul>	Ongoing
	<ul style="list-style-type: none"><li>• Topping Slab Replacement at Jefferson Park Rail Station</li></ul>	Complete
	<ul style="list-style-type: none"><li>• Construction at Jefferson Park Rail Station</li></ul>	Complete
	<ul style="list-style-type: none"><li>• Construction at North Half of Jefferson Park Bus Terminal.</li></ul>	Ongoing
	<ul style="list-style-type: none"><li>• Construction at South Half of Jefferson Park Bus Terminal.</li></ul>	Planned

**Delay Explanation:**



# Project Title: Belmont and Jefferson Park Station Improvements



**New Floor and Lights Installed - Belmont**



# Project Title: Belmont and Jefferson Park Station Improvements



**New Stair Enclosure at Belmont**



# Project Title: Belmont and Jefferson Park Station Improvements



Belmont Station Platform



# Project Title: Garfield Green Station Renovation

Justification of Need:	The purpose of the project is to upgrade and enhance The Garfield Gateway, as well as create a transit gateway to the community. The project will increase pedestrian access and flow at the operational station with a variety of streetscape improvements, including crosswalk enhancements, new lighting, bike racks, landscaping, and traffic control devices. Also, the original historic landmark street level station will be refurbished.
Priority of Project:	High
Total Project Budget:	\$42 M
Construction Contract Value:	25,978,000
Earned to Date:	40% (Thru Oct. )
Percent Change Orders to Construction Contract:	0%
Percent Time Used:	91.1%
DBE:	DBE Goal: 30% Contract is on track to meet the DBE goal <b>Outreach events conducted: 2 (CTA HQ &amp; Arts Incubator)</b>
Estimated Start Date/Estimated Length of Project:	NTP: October 25, 2017 Substantial Completion : January 8, 2019
Designer of Record:	Walsh Construction Company / Exp US Services
Construction Manager / Owners Representative:	Arcadis

**Detailed Overview of Scope:**

This Project will bring elements of Garfield Station and the historic station to a state of good repair and enhance the aesthetics of the station. A new platform slab will be installed along with new furniture, signage, and mid-platform exit stairs. A new canopy will be placed that extends to an 8 car length and will have new LED light fixtures and new speakers. The historic track structure will be painted and new access stairs will be installed. The operational stationhouse will be refinished, a new escalator to the southbound tracks will be installed, and existing elevators will be improved. Street level improvements include bike lanes, a new bus stop configurations, and a new walkway.



# Project Title: Garfield Green Station Renovation

Impact on Customers:	<p><b>Track Occurrences</b></p> <ul style="list-style-type: none"> <li>• 30 Nightly Single Tracks</li> <li>• Maximum 6 Weekend Line cuts</li> </ul> <p><b>Operational Stationhouse Closure</b></p> <ul style="list-style-type: none"> <li>• 90 day closure of operational stationhouse. (Once temp. station is complete)</li> <li>• 14 day platform closure: per platform. (Back riding on each side)</li> <li>• Construction of temporary stationhouse just north of stationhouse.</li> </ul>
Benefit to System:	Increased reliability and safety for customers, rail and bus operations.
Benefit to Community:	The overall aesthetics of the Garfield station, historic station, and the track structure will be improved. New LED light fixtures, platform furniture, speakers and communications, and mid-platform exit stairs will also be added. There will also be improvements to the streetscape (bus stop, landscaping) and the parking lot.
Impact on Accessibility:	The current elevator will be improved and a new escalator will be added to the Southbound tracks. New speakers and new signage.
Estimated # of Jobs Created:	114 indirect, 546 direct
Customer Communication Need:	Construction Activity Notices regarding construction-related impacts.

<b>Comparable Projects:</b>	
<ul style="list-style-type: none"> <li>• Quincy Loop Station Upgrade</li> </ul>	



# Project Title: Garfield Green Station Renovation

## Construction Progress

Phase	Description	Status
<b>Construction</b>	<ul style="list-style-type: none"><li>• Platform canopy Installation.</li><li>• Platform topping removal and replacement.</li><li>• Painting historic track structure.</li><li>• Operational stationhouse demolition.</li><li>• Northside of Garfield sidewalk demolition.</li><li>• Operational stationhouse gypsum board ceiling installation.</li><li>• Installed granite flooring in the station house.</li><li>• Installed west escalator truss and stairs.</li><li>• Installation of elevator exterior cladding frames.</li><li>• Installation of elevator cabs.</li><li>• Historic station house interior structural repairs.</li><li>• Paint removal from exterior of historic station house and masonry restoration.</li><li>• Installation underground sewer utilities.</li></ul>	Completed Completed Ongoing Completed Completed Completed Completed Completed Ongoing Ongoing Ongoing Ongoing Ongoing



# Project Title: GARFIELD GREEN STATION RENOVATION



Street Level



# Project Title: GARFIELD GREEN STATION RENOVATION



Elevator Tower



# Project Title: GARFIELD GREEN STATION RENOVATION



Platform Level



A photograph of a construction site for a station renovation. The scene is an elevated platform with a glass and steel roof structure. Several workers in high-visibility vests and hard hats are visible, some standing on wooden walkways and others near the tracks. The tracks are lined with blue tactile paving. The text is overlaid in a large, dark blue font.

**Successful Workforce  
Initiatives  
CTA Garfield Gateway  
Station Renovation**

# Garfield Green Line Station: Workforce Goals and Current Attainment

Category	Goal (% of total labor hours)	Current Attainment (% of hours completed as of 1/3/2019)
Workforce Investment Opportunity Act (WIOA) (Disadvantaged individuals)	10%	21%
Union Apprentice	10%	13%
City of Chicago Residency	50%	54%
Neighborhood Footprint	7.5%	21%

**MICHAEL NEAL**



- Carpenter
- Resident of Chicago's Englewood neighborhood

**JEFFREY LANE**



- Laborer
- Veteran
- Resident of Chicago's Washington Park neighborhood.

**ALEXIS COBB**



- Carpenter
- Mother
- Resident of Chicago's Washington Park neighborhood.

# Project Title: RPM Advance Contracts

Justification of Need:	<ul style="list-style-type: none"> <li>• Advance Utility Relocation to relocate utilities in conflict with future RPM Phase One construction.</li> <li>• Demolition Work Orders: Two Mid-Con Work Orders to demolish buildings at 18 parcels to facilitate future RPM Phase One Construction.</li> </ul>
Priority of Project:	High
Total Project Budget:	<ul style="list-style-type: none"> <li>• Additional support costs as part of RPM Phase One Project Budget of \$2.2B</li> <li>• Advance Utility Relocation: \$35,000,000 per Ordinance No. 017-53</li> <li>• Demolition: \$4,380,195 Construction Contract Value</li> </ul>
Construction Contract Value:	<ul style="list-style-type: none"> <li>• Advance Utility Relocation: \$14,388,661 (Work Orders Authorized as of 11/20/18)</li> <li>• Demolition: \$4,380,195</li> </ul>
Earned to Date:	<ul style="list-style-type: none"> <li>• Advance Utility Relocation: 39% (ComEd ductbank), 25% (all work)</li> <li>• Demolition: 63%</li> </ul>
Percent Change Orders to Construction Contract:	<ul style="list-style-type: none"> <li>• Advance Utility Relocation: N/A</li> <li>• Demolition: 0%</li> </ul>
Percent Time Used:	<ul style="list-style-type: none"> <li>• Advance Utility Relocation: 42%</li> <li>• Demolition: 100%</li> </ul>
DBE:	<ul style="list-style-type: none"> <li>• Advance Utility Relocation: CTA Diversity continues to work with Utilities to provide opportunities for DBEs and other diverse contractors.</li> <li>• Demolition: Work Orders are on track to meet the DBE goals of 30%</li> </ul>
Funding Source:	CTA Bonds, FTA Core Capacity Grant, CMAQ, TIFs
Estimated Start Date/Estimated Length of Project:	<ul style="list-style-type: none"> <li>• Advance Utility Relocation NTP: 06/25/18 (373 days) Planned Substantial Completion: 07/02/19</li> <li>• Demolition NTP: 01/16/18 (322 Days) Planned Substantial Completion: 01/25/19 (Contractor notified of potential Liquidated Damages)</li> </ul>



# Project Title: RPM Advance Contracts

Designer of Record:	<ul style="list-style-type: none"><li>• Advance Utility Relocation: Relevant Utility Agency</li><li>• Demolition: CTA</li></ul>
Construction Manager/General Contractor:	<ul style="list-style-type: none"><li>• Advance Utility Relocation: CM= WSP; GCs = Relevant Utility Agency or Contractor</li><li>• Demolition: CM = WSP; GCs = ICC Group Inc. and John Burns Construction</li></ul>
<p><b>Detailed Overview of Scope:</b></p> <ul style="list-style-type: none"><li>• Advance Utility Relocation: Relocate underground and overhead facilities ahead of track and station construction.</li><li>• Demolition: Demolish properties needed for RPM Phase One ahead of track and station construction.</li></ul>	



# Project Title: RPM Advance Contracts

Impact on Customers:	Periodic flagging activities while poles being set/removed. Flagging and Track Impacts during select demolition activities.
Benefit to System:	Reduces risk and duration for the future RPM Phase One Design-Build Project.
Benefit to Community:	Reduces risk and duration for the future RPM Phase One Design-Build Project.
Impact on Accessibility:	None
Estimated # of Jobs Created:	N/A
Customer Communication Need:	Construction Activity Notices will be provided to inform businesses and residents regarding temporary construction impacts (noise, dust, street/alley closures) throughout the advance work.

<b>Comparable Projects:</b>



# Project Title: RPM Advance Contracts

## Construction Progress

Phase	Description	Status
Design	<ul style="list-style-type: none"><li>Advance Utility Relocation – Utilities are finalizing design and Work Orders.</li></ul>	Ongoing
Construction	<ul style="list-style-type: none"><li>Advance Utility Relocation – ComEd installing poles and duct bank.</li></ul>	Ongoing
	<ul style="list-style-type: none"><li>Demolition Package 1 –All work is substantially complete.</li></ul>	Complete
	<ul style="list-style-type: none"><li>Demolition Package 2 – Demolition work began on November 18, 2019 and will continue for several weeks until complete.</li></ul>	Ongoing
Close-Out	<ul style="list-style-type: none"><li>Demolition Package 1 - Review of submittals of warranties and as-built drawings.</li></ul>	Ongoing

### Delay Explanation:

N/A



# Project Title: RPM Advance Utility Work and Property Demolition



Setting Manhole South of Balmoral (left) and Service Feed Pull on Roscoe (right)



# Project Title: RPM Advance Utility Work and Property Demolition



Substantial Completion of Demolition at Bryn Mawr



# Project Title: RPM Broadway Substation Upgrade

Justification of Need:	The existing traction power equipment at these substations is well past its useful life and needs to be replaced to assure reliable 600-volt DC traction power. Rehabilitate the substation buildings to a state of good repair.
Priority of Project:	High
Total Project Budget:	\$25,954,699.00 (Part of RPM Phase One Project Budget of \$2.2B)
Construction Contract Value:	\$14,500,000.00
Earned to Date:	41%
Percent Change Orders to Construction Contract:	None at this time.
Percent Time Used:	63%
DBE:	Goal: 25% / Commitment: 25.17% Contract is on track to meet the DBE Goal Outreach events conducted: 1 (CTA HQ)
Funding Source:	CTA Bonds, FTA Core Capacity Grant, CMAQ, TIFs
Estimated Start Date/Estimated Length of Project:	NTP: August 2017; Substantial Completion: August 2019; (Length: 730 calendar days)
Designer of Record:	TY Lin
Construction Manager/General Contractor:	CM = STV; GC = Clark Construction Group

**Detailed Overview of Scope:**

Replace Broadway Substation traction power equipment and rehabilitate various structural, architectural, civil, mechanical, plumbing, and electrical elements.



# Project Title: RPM Broadway Substation Upgrade

Impact on Customers:	None to minimum during construction. Infrequent Track Access Occurrences (Track Out of Service and Reroutes).
Benefit to System:	<ul style="list-style-type: none"><li>• Additional traction power capacity</li><li>• Reduced traction power related train defects</li><li>• Improved reliability for revenue service</li><li>• Improved safety</li></ul>
Benefit to Community:	Improved Reliability and Safety
Impact on Accessibility:	None
Estimated # of Jobs Created:	450 indirect and 95 direct
Customer Communication Need:	Construction Activity Notices will be provided to inform businesses and residents regarding temporary construction impacts (noise, dust, street/alley closures) throughout the project.

## Comparable Projects:

- East Lake Substation (Loop and Adjacent Lines)
- Milwaukee Substation (Blue Line)



# Project Title: RPM Broadway Substation Upgrade

## Construction Progress

Phase	Description	Status
<b>Construction</b>	<ul style="list-style-type: none"><li data-bbox="388 234 1483 291">• Right-of-Way traction power cable replacement work, traction power equipment deliveries, and demolition, excavation, and replacement of remaining floor areas.</li><li data-bbox="388 329 1512 386">• Factory acceptance testing for the AC traction power equipment is complete and ready to be delivered to site.</li><li data-bbox="388 425 1205 454">• DC Gear scheduled to be delivered and installed during December</li></ul>	Ongoing  Ongoing  Ongoing

**Delay Explanation:**

N/A



# Project Title: RPM Broadway Substation Upgrade



Installation of Bracket Supports for Cable Trays and Conduit



# Project Title: RPM Broadway Substation Upgrade



54-Hour Weekend Trackwork

