



Todays Presentation

- Traction Power Upgrades Canal Tie House, Barry and Damen Substations
- Western Brown line Station Improvements
- O'Hare Line Harlem Station Bus Bridge Improvements
- Racine Station ADA & Traction Power Improvement Project
- Refresh & Renew Project
- Red and Purple Modernization Project



High

Justification of Need:

Priority of Project:

The CTA has identified additional traction power demands based on results from the Blue Line Load Flow study and determined that three (3) areas along the blue line O'Hare branch and Dearborn subway may experience problems with running the new fleet at the service levels proposed. To continue providing a reliable and safe service, it is necessary to build two (2) new traction power substations, one at Barry and the other at Damen with all their infrastructure support along with installing a new Tie Breaker house in the Dearborn subway. Also, the project includes the replacement of all traction power equipment at the Haymarket substation.

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Total Project Budget:	\$122.8 Million
Construction Contract Value:	\$67.9 Million
Earned to Date:	86% (As of September 2024)
Percent Change Orders to Construction Contract:	16.7%
Percent Time Used:	105.5% (As of September 2024)
DBE:	Goal: 25% Commitment: 25.3% Workforce Goals: 10% Career Opportunity/ 8% Apprentice/ 25% EDA Contract is on track to meet the DBE goal
Funding Source:	CTA Bonds / Rebuild Illinois
Estimated Start Date/Estimated Length of Project:	NTP: October 20, 2021, Estimated Duration 1020 days/Substantial Completion August 5, 2024
Designer of Record:	TYLin
Construction Manager/General Contractor:	WSP / John Burns Construction



Impact on Customers:	Minor service disruptions during track access occurrences.
Benefit to System:	The new Traction Power Substation will increase service reliability to the Blue Line.
Benefit to Community:	New buildings will enhance and will blend with the surrounding community and will benefit transit riders in the Blue Line with a safer and more reliable service.
Impact on Accessibility:	N/A
Customer Communication Need:	Construction Activity Notices.

Comparable Projects:

East Lake, Milwaukee & Illinois (ELMI) and Broadway substations

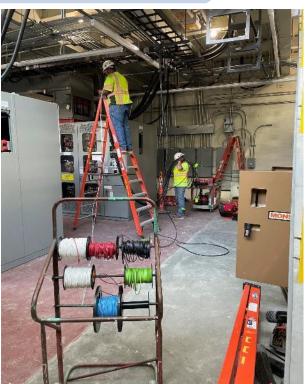


Construction Progress

Phase	Description	Status
Haymarket Substation	 Equipment testing and commissioning Parking Lot Restoration	Ongoing Ongoing
Canal Tie- House	 Commission Tie-House Interior Tie-House Build-Out Cable connections to Tie-House 	Ongoing Ongoing Ongoing
Damen Substation	 Installation of Traction Power Equipment Equipment Testing and Commissioning Build building interior, flooring, rooms and finishes 	Ongoing Upcoming Ongoing
Barry Substation	 Installing substation electrical equipment. Build exterior walls and roof. Build building interior, flooring, rooms and finishes 	Upcoming Ongoing Upcoming
Belmont Crossover	Punchlist work.	Ongoing

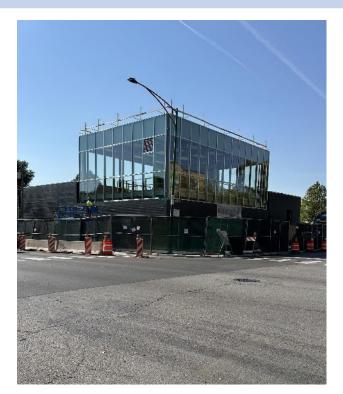






Interior Electrical Installation at Damen



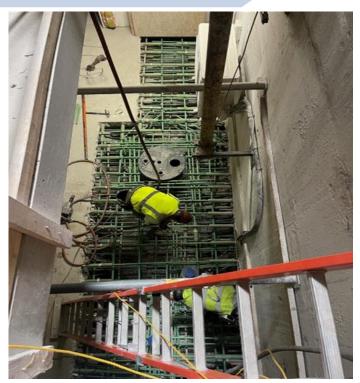




Curtainwall Installation at Barry

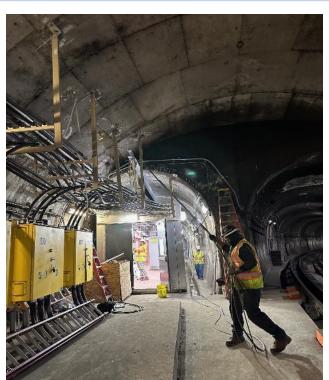






Pavement Restoration/Pump Installation at Barry







Interior Build-Out at Canal Tie-House



Justifica	tion	of	Nee	d:

Improvements to Ravenswood Western Station are necessary to bring the station into compliance with current provisions of the Americans with Disabilities Act (ADA), adapt to redeveloped adjacent storefronts, improve security, and extend the useful life of the station through replacement of deteriorated site, building, and platform components. This project is being delivered by a progressive design build delivery method, which is advantageous for both schedule and the design to budget requirement.

Priority of Project:	Medium
Total Project Budget:	\$30.0 M
Construction Contract Value:	\$19.0 M
Earned to Date:	\$7.0 M
Percent Change Orders to Construction Contract:	0
Percent Time Used:	19%
DBE:	DBE goal: 30%. DBE Firms: American Survey & Engineering, PC, Facet Engineering, GSG Consultants. Inc., Quigg Engineering.
Funding Sources:	Chicago Tax Increment Funding, Federal 2022, Federal 2023, CTA bonds
Estimated Start Date/Estimated Length of Project:	GC NTP1: May 11, 2023; NTP2: 8/6/24. Substantial Completion: January 13, 2026 (NTP2 + 525 days)
Designer of Record:	CDM Smith
Construction Manager/General Contractor:	CM: AECOM. GC: FH Paschen.



Impact on Customers:	CTA customers may be redirected to use alternate station entrance. Platform closures and back rides will be necessary. The work will also require some temporary bus reroutes and lane closures on Western and Lincoln.
Benefit to System:	State of good repair improvements to the building envelope, platform, platform guardrails and canopy, and interior finishes. New customer assistant booth, reconstructed operator bathroom facility.
Benefit to Community:	Increased station accessibility, improved safety through renovated sidewalks, walkway pavements, lighting, cameras, and signage. Overall improved appearance as a result of painting.
Impact on Accessibility:	New ADA-compliant curbs, bus turnaround islands, replacement of elevator cabs and sidewalks for improved accessibility.
Customer Communication Need:	Construction Activity Notices, coordination with Alderman, press releases.
Comparable Projects:	

Quincy Loop Station Upgrade



Construction Progress

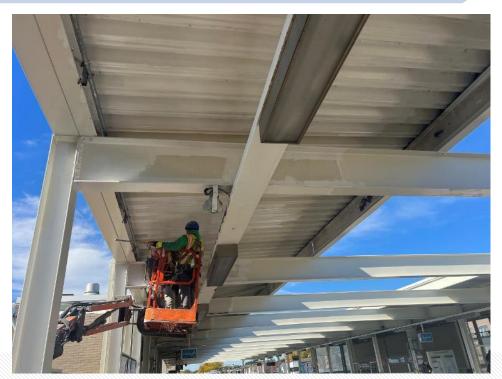
Phase	Description	Status
Construction	Stage 1 - Advance Package	
	Cleaning and painting of track structure	Complete
	Cleaning and painting of platform guardrails and canopy	Complete
	Remediation of pigeon waste on station roof	Complete
	Platform edge repair Inbound	Complete
	Platform concrete spalling repair	Complete
	Stage 2 Construction	
	Permitting	On-going
	Building Envelope (masonry repairs, storefront replacement)	Q2 '25
	Electrical Upgrade	Q3 '25
Design	Elevator Cab Replacement	Q4 '25
	Stage 1 Design – 100%	Complete
	Stage 2 Design – 90%	Under Review
	Stage 2 Design – 100%	11/27/24





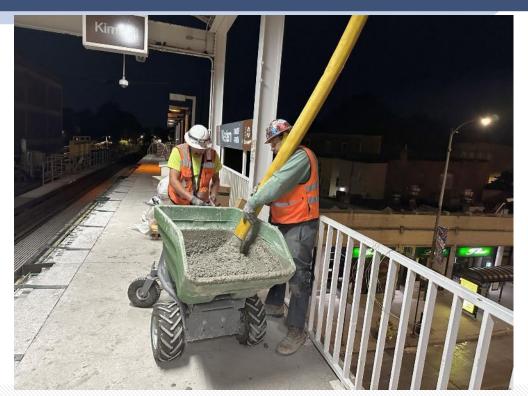
Canopy Before Painting





Inbound Platform – Painting Canopy Steel





Pumping Concrete to Buggy from Western Avenue Median





Platform edge replacement - Placing New Concrete Nosing



Project Title: O'Hare Line – Harlem Station Bus Bridge Reconstruction

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The condition of the Harlem Station bus bridge was initially identified as an infrastructure need in 2013. At that time, CTA noted significant deterioration to the concrete deck, concrete piers, and structural steel support elements due to salt corrosion and water infiltration. More recently, critical defects caused by concrete deck expansion joint failure have been identified in the south pier. The bridge needs to be replaced before it becomes a safety hazard and has to be taken out of service.

	taken out of service.
Priority of Project:	Medium
Total Project Budget:	\$40.0 M
Construction Contract Value:	\$20.4 M
Earned to Date:	\$7.0M
Percent Change Orders to Construction Contract:	0
Percent Time Used:	79%
DBE:	DBE goal: 25%. DBE Firms: MW Powell, Highway Safety Corp., Argo Construction LLC, Vision Painting, Alpine Demolition, W.E.B. Production & Fabricating, AC Iron LLC, S & J Construction, Livewire Electrical Systems.
Funding Sources:	Rebuild Illinois, Federal 2020, Federal 2016, Surface Transportation Program (CMAP)s
Estimated Start Date/Estimated Length of Project:	GC NTP: September 5, 2023. Substantial Completion: March 8, 2025 (NTP + 550 days)
Designer of Record:	HNTB
Construction Manager/General Contractor:	CM: TranSystems/TY Lin JV. GC: John Burns Construction Company.



cta Project Title: O'Hare Line - Harlem Station Bus **Bridge Reconstruction**

Impact on Customers:	Minor changes in bus service and Park & Ride access for those who use the Harlem Blue Line Station on the O'Hare Branch. Rail service will not be impacted.
Benefit to System:	New bridge superstructure and interface between bridge and station, new concrete approaches, bridge deck, ADA-compliant curbs and sidewalks, new canopy on bridge. New bus operator bathroom facility, painting, improved drainage.
Benefit to Community:	Replacement of the bridge before it becomes unsafe will help ensure continuity of service on bus routes out of the O'Hare Line Harlem Station.
Impact on Accessibility:	New ADA-compliant curbs and sidewalks for improved accessibility.
Customer Communication Need:	Construction Activity Notices, coordination with Alderman, press releases.

Comparable Projects:

Montrose Bridge Replacement (IDOT).



Cta Project Title: O'Hare Line - Harlem Station Bus **Bridge Improvements**

Construction Progress

Phase	Description	Status
Construction		
	Repour Top of Bridge Abutment Walls	Completed
	Selective Demolition of South Bridge Pier	Completed
	Cut the Top of Pier #2 Columns (center pier)	Completed
	Set Bridge Bearings Abutments and Center Pier	On-Going
	Install and Detail New Structural Bridge Steel	Planned mid Q4
	Pour New Bridge Deck	Planned Late Q4
	Pour Parapet Wall and Sidewalk	Planned Spring '25
	Install below bridge lighting	Planned Spring '25



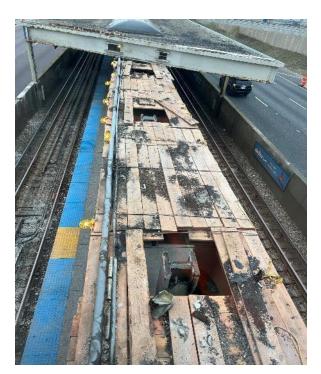
Project Title: O'Hare Line – Harlem Station Bus Bridge Reconstruction



View of Station Looking North



Project Title: O'Hare Line – Harlem Station Bus Bridge Reconstruction





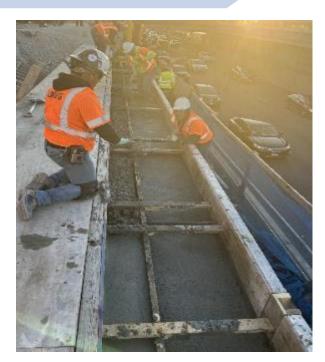
Center Columns at Platform – Completed Column Top



Project Title: O'Hare Line - Harlem Station Bus Bridge Reconstruction



South Abutment Poured



North Abutment Concrete Being Placed



Justification of Need:	The existing Racine station is not accessible, and the ADA Improvements will add an elevator, and provide an ADA compliant ramp with adequate clearances for wheelchairs and mobility devices. In addition, to accommodate growth in ridership and maintain reliable service, the CTA procured newer generations of rail car fleets, which required traction power improvements consisting of constructing a new Morgan substation as well as upgrading existing traction power equipment within the Hermitage substation to meet higher power demands on the Forest Park branch of the Blueline.
Priority of Project:	High
Total Project Budget:	\$106,217,468
Construction Contract Value:	\$75,400,000
Earned to Date:	40% (thru September 2024)
Percent Change Orders to Construction Contract:	0%
Percent Time Used:	54% (thru September 2024)
DBE:	Goal: 25% Commitment: 25% Workforce Goals: 10% Career Opportunity, 15% Apprentice, 25% EDA The contract is on track to meet the DBE goal
Funding Source:	IDOT - Rebuild Illinois
Estimated Start Date/Estimated Length of Project:	NTP: 5/12/2023, Project Duration: 925 days (NTP through Substantial Completion)
Designer of Record:	HNTB
Construction Manager/General Contractor:	Congress Corridor Partners, a JV between (WSP/Ardmore) / F.H. Paschen, S.N. Nielsen & Associates



Impact on Customers:	 Minor service disruptions during 54hr weekend TAOs. No rail service between IMD and UIC-Halsted stations during weekend linecuts. The Racine station will be OOS during the weekend linecuts. No access to Racine stationhouse from Racine street until completely rebuild, the Loomis stationhouse will remain in service during this time. Local bus shuttles will be provided during weekend linecuts.
Benefit to System:	 The project will make the Racine station fully accessible. The project will add more power to boost reliability and meet service demands. The project will reduce the Racine station and Hermitage substation maintenance needs.
Benefit to Community:	When completed, the project is expected to accommodate all the accessibility needs for riders traveling through the Racine station utilizing various mobility devices.
Impact on Accessibility:	• YES
Customer Communication Need:	 GCR outreach with surrounding stakeholders. Construction activity notices will be distributed as needed. Advanced service disruption signs and posters will be installed as needed.

Comparable Projects:

The Illinois Medical District (IMD) Station Improvements



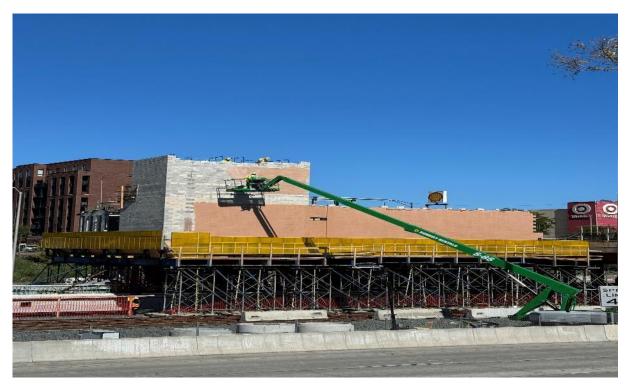
Construction Progress

Phase	Description	Status
Construction	Racine Stationhouse Entrance: Structure & shell Main stairs and elevator Bridge level interiors Electrical and mechanical rooms Electrical and mechanical rooms Electrical and sanitary underground services Racine Platform New Concourse Extension: Structure & shell MEP and communication systems Racine Platform and Canopy: Canopy demolition and restoration MEP and communication systems Racine Platform and Canopy: Canopy demolition and restoration MEP and communication systems Loomis Stationhouse Entrance: Demolition of existing stationhouse, ramp and columns Structure & Shell Bridge Level Interiors Electrical and Mechanical Rooms Electrical and Mechanical Rooms Electrical and Sanitary Underground Services Loomis New ADA Ramp: Installation of new ADA ramp and columns Installation of new and proofing system and MEP Morgan Substation: Structure & shell Bridge (1**) level and equipment (2**rd) level interiors Electrical and sanitary underground services Traction power equipment delivery, installation, testing and commissioning Hermitage Substation: Removal of existing traction power equipment Traction power equipment delivery, installation, testing and commissioning	Ongoing Ongoing Ongoing Planned Ongoing Planned Ongoing Planned

Delay Explanation:

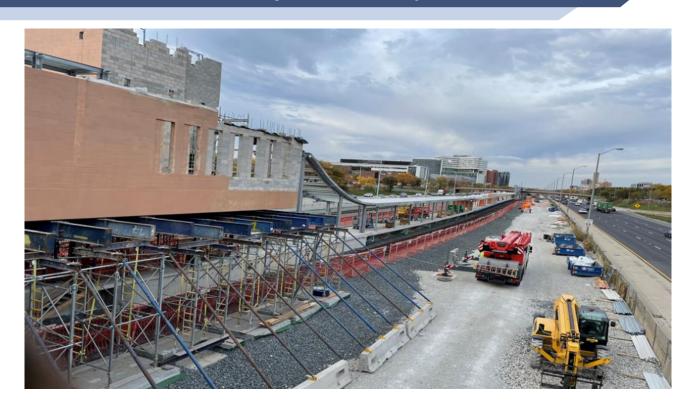
N/A





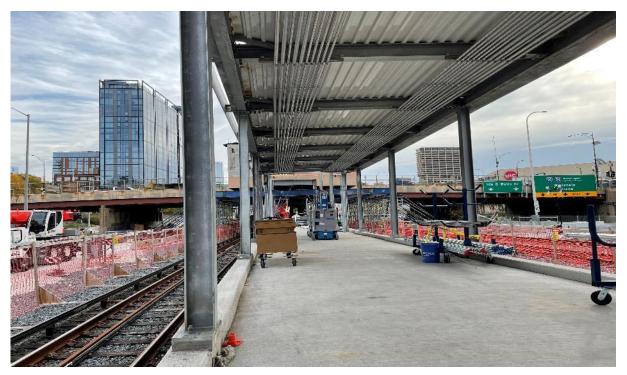
Racine Stationhouse South Wall Construction





Racine Stationhouse North Wall Construction





Racine Platform Extension Roofing and Conduits





Morgan Substation Construction (1st, 2nd, Top Roof) levels



Justification of Need:	The Refreshed & Renewed Program is a CTA Facilities Maintenance implemented plan to promote safety, security and longevity to all CTA Facilities including, but not limited to: Rail Stations and Platforms, Bus Garages and Rail Shops across the system. The Refreshed & Renewed Program performs major improvement work at these transit operations facilities for both the customer and the internal needs of the Authority.
Priority of Project:	Medium
Total Project Budget:	\$6,500,000
Expended to Date:	\$1,954,835
Used last Month:	\$179,440
Funding Source:	Various
Estimated Start Date/Estimated Length of Project:	January 2021 to December 31, 2024
Contractor	CTA Forces
1	

29 Rail Stations and 14 Bus-turn-arounds will receive lighting upgrades, painting and deep cleaning as part of this program for the current year.

29 Stations and 14 Bus-turn-arounds will have a detailed Scope of work which includes:

- · Maintaining Cleanliness throughout public, as well as back-of-house areas
- Ensuring stations are graffiti free;
- · Re-painting painted surfaces;
- Maintaining pathways of ingress and egress are clear of obstruction;
- · LED lighting conversions and component;
- · Removing obstructions from windows and store front systems that may impede natural light and safe viewing points.
- · Address and repair any unsafe defects such as spalling concrete and rotted wooden platforms;
- Replacing outdated and damaged signage;
- · Maintaining a warm/cool working environment.



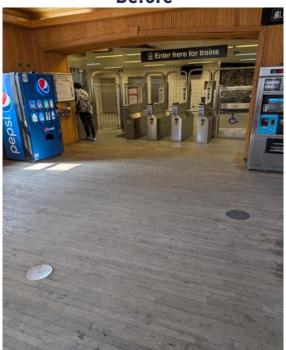
Department	Description	Status
Facility Maintenance	Rail Stations Full Program Scope 29 Stations (24 of 29 Completed) Cicero-Pink Kedzie-Pink Ridgeland-Green Sedgwick-Brown Paulina-Brown Davis Oakton/Skokie-Yellow Grand-Red Granville-Red	Completed Completed Completed In Progress In Progress Scheduled Scheduled Scheduled
	Bus Turnaround Full Program (12 of 14 Completed) Grand/Streeter (Navy Pier) 47th/Lake Park Austin/Jackson Division/Austin Grand/Nordica Grand/Latrobe	Completed Completed Completed Completed In Progress Scheduled

Delay Explanation:

N/A







After



Kedzie/Pink – LED lighting upgrades & Hardwood Floor Refinishing



Before



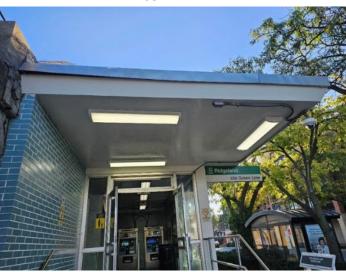
After





Before After





Ridgeland/ Green – Painting, Ceiling repairs & LED fixture replacement



Before



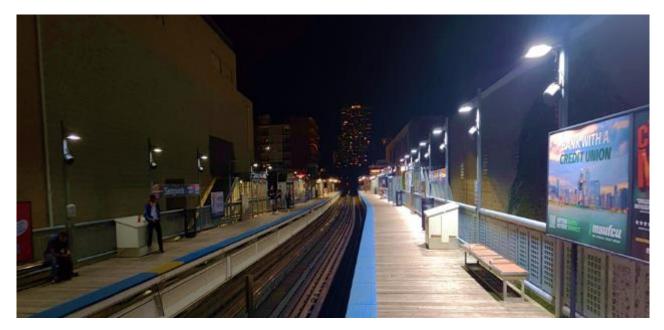
After



Ridgeland/ Green - Platform LED lighting upgrades



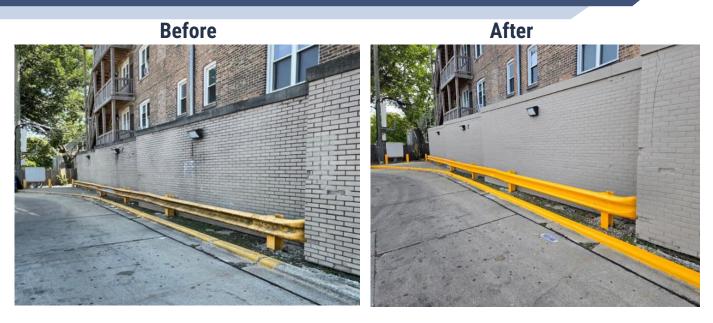
Before After



Sedgewick/Brown – LED lighting upgrades



Project Title: Refresh & Renew



Division/Austin BTA – Painting & LED lighting replacements



Project Title: Refresh & Renew







47th/Lake Park BTA – Painting and Refurbishment



Project Title: Refresh & Renew

Before After



Austin/Jackson BTA - Floor Tile Installation



Justification of Need:	The RPM Phase One Project is greatly needed in order to expand capacity on CTA's most utilized rail line and to replace aging infrastructure.			
Priority of Project:	High			
Total Project Budget:	\$ 2.1 Billion (excludes Transit TIF interest payments)			
Construction Contract Value:	Original - \$1,272,275,929 Current - \$1,383,992,301			
Earned to Date:	81.7%			
Percent Change Orders to Construction Contract:	8.8%			
Percent Time Used:	85.2%			
DBE:	Design: Goal: 20% / Commitment: 20.64% Construction Goal: 20% / Commitment: 20% Workforce Goals: 10% WIOA / 15% Apprentice / 35% EDA	Contractor is on track to meet the DBE goal		
Funding Source:	CTA Financing, FTA Core Capacity Grant, CMAQ, TIFs			
NTP / Construction Start / Estimated Completion:	February 8, 2019 / October 2019 / 2025			
Design-Build Contractor:	Walsh-Fluor Design-Build Team			
Owners Representative:	Elevated Solutions Partners			

Detailed Overview of Scope: RPM Phase One consists of the following elements that will allow CTA to expand service along the Red and Purple lines:

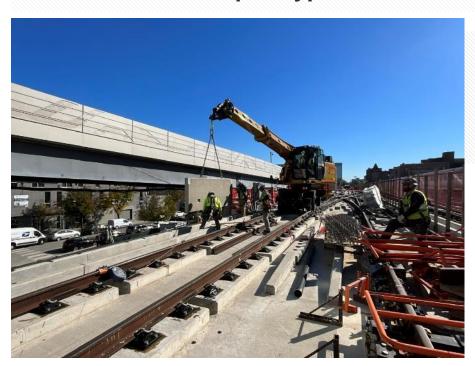
- Lawrence to Bryn Mawr Modernization (LBMM) complete reconstruction and addition of ADA accessibility at four Red Line stations (Lawrence, Argyle, Berwyn, and Bryn Mawr) and reconstruction of 6 miles of track, structures, and viaducts from Leland Ave. to Ardmore Ave.
- Red-Purple Bypass (RPB) Construction of a grade-separated bypass for the Brown Line at Clark Junction, just north of Belmont Ave. Includes realignment and
 reconstruction of 1.4 miles of mainline tracks and structure between Belmont station and south of Cornelia Ave.
- Corridor Signal Improvements (CSI) Installation of new higher-capacity signal system on 23 miles of track between Belmont and Howard stations.



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Phase	Description	Status
Administrative /	Continued submittal/revisions of required management plans	Ongoing
Design:	Continued Design Development in support of Signal Improvements	Ongoing
	Red-Purple Bypass (RPB)	
	 Civil At-Grade Improvements – drainage installation and sewer lining, pavement restoration 	Ongoing
Construction:	North Mainline Stage 3 track work and plinth installation	Ongoing
	Ravenswood Stage 3 track work And Mark Stage 3 track work Ravenswood St	Ongoing
	Installation of noisewall for NM4 Installation of wall for Clark Substation	Ongoing
	Installation of wall for Clark Substation Installation of utilities for Vautravers Building	Ongoing Ongoing
	Continue installation of traction power cable and other traction power materials for NM3/NM4	Ongoing
	Lawrence to Bryn Mawr Modernization	Origoning
	Concrete substructure work and segmental erection	Ongoing
	Bryn Mawr and Hollywood Aux Station	
	Structural building work	Ongoing
	 Platform precast panel installation, canopy erection 	Ongoing
	 Berwyn Station 	
	 Foundation work 	Complete
	 Structural building work 	Started
	Platform precast panels	Started
	- Argyle Station	
	Foundation workPlatform electrical	Ongoing
	Lawrence Station	Ongoing
	Foundation work	Ongoing
	Platform electrical, steel detailing	Ongoing
	- Trackwork - plinths	Ongoing
	Corridor Signal Improvements (CSI)	- Grigoring
	 RPB Stage 2 systems punchlist activities 	Ongoing
	 Continued signal system testing monitoring at Clark, Kenmore, Barry and Lakewood-Seminary Relay Houses 	Ongoing
	 Termination of signal cable and junction boxes along track 4 near Jarvis 	Ongoing
	 Continued installation of impedance bond brackets and prep for cabling between Morse and Thorndale 	Ongoing
	 Installation of tray along NM4 at RPB and began installation of signal and communications fiber optic cabling 	Ongoing
	Completed DGTrack migration events at Montrose Relay House	Complete
	Began DGTrack migrations at Loyola Audio House	Ongoing
Delay		
Explanation:		



Red-Purple Bypass



North Main Line Noise wall Installation



Red-Purple Bypass



North Main Line Clark Street Wall Installation



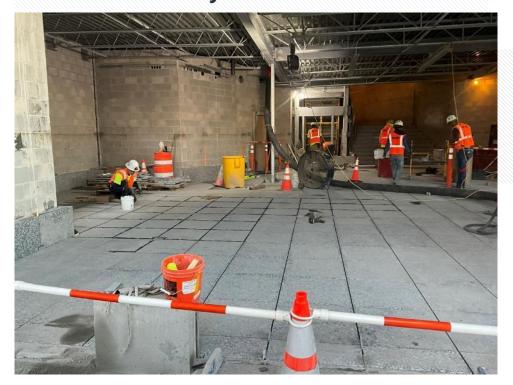
Lawrence to Bryn Mawr Modernization



Hollywood Station
Platform
Elevator Installation



Lawrence to Bryn Mawr Modernization



Hollywood
Station Granite
Flooring
Installation



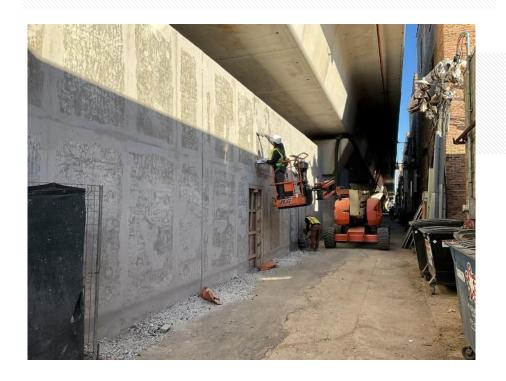
Lawrence to Bryn Mawr Modernization



Berwyn Platform Canopy Installation



Lawrence to Bryn Mawr Modernization



Argyle Station Patching Wall Work



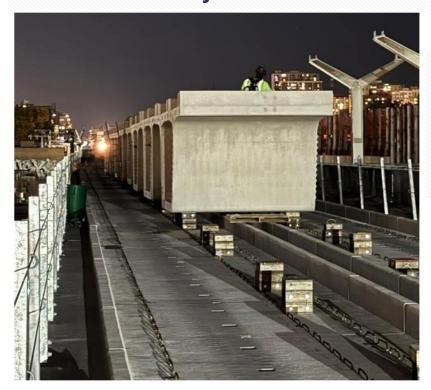
Lawrence to Bryn Mawr Modernization



Lawrence Station Rebar Work for Slab on Grade



Lawrence to Bryn Mawr Modernization



Segmental Box Girder Staging South of Lawrence



Community Outreach	Major Activities	Timing
CTA staff provided a walking project tour to Edgewater Chamber of Commerce leadership on Oct. 17.	 Weekly Red-Purple Bypass Project updates for 44th ward Lawrence to Bryn Mawr project updates for 46th, 48th wards Meeting with Explore Uptown and Argyle area businesses to talk about Lawrence-Bryn Mawr Under-L Activation programming Edgewater Chamber of Commerce – project update Monthly virtual office hours (October) Lakeview East Chamber of Commerce – project update Edgewater Chamber of Commerce – project tour 	Weekly Bi-weekly Oct. 4 Oct. 8 Oct. 11 Oct. 17



RPM Phase One Design-Build DBE Attainment Through September 30, 2024

RPM Phase I Design-Build DBE Attainment through September 30, 2024





RPM Phase One Design-Build Workforce Attainment Through September 30, 2024

RPM Phase I Design-Build Workforce Attainment through September 30, 2024



RPM Phase I has created 2,455 construction trade labor jobs on the design-build team





RPM Phase I Workforce Goals Goals Attainment 11.50 10 Workforce Innovation & Opportunity Act (WIOA) 12.38 15 32.06 35 Economically Disadvantaged Area (EDA)



September 2024 Outreach Events

September 18

•	City of Chicago Procurement Summit	September 5	•	Q3 Outreach Event @ Gately Park	September 19
•	Metropolitan Water Reclamation District (MWRD) Summit	September 6	•	E Squared Lunch and Learn	September 20
•	FH Paschen Meet The Contractor @ Sulzer Library	September 9	•	Illinois Office of Faith-Based Community Development @ JLM Center	September 23
•	Women's Business Development Center (WBDC) Conference	September 12	•	Red Line Extension-Meet The Contractor @ Olive-Harvey College	September 25
•	Q3 Workforce Outreach Event @ Columbus Park Refectory	September 12	•	Tracks To Trades @ Paul Simon Job Corp Campus	September 26



Driving Small Businesses

The Distance: Cyber Security







October 2024 Outreach Events

•	CTA Small Business Education Series: Professional Services (First Day)	October 1	•	2024 Chicago Builds Expo	October 22
•	Illinois Hispanic Chamber of Commerce – Business Expo and Conference	October 3	•	CTA Small Business Education Series: Professional Services (Graduation)	October 22
	2024 Technology Summit (Bush Infotech Group)	October 8	•	2024 Chicago Builds Expo	October 23
	2024 Teermology Currinit (Bush Innoteer Group)		•	Driving Small Businesses The Distance:	October 23
•	CTA Small Business Education Series: Professional Services (Second Day)	October 8		CTA Compliance Do's, Don'ts, and Musts	
•	Citywide Career Fair	October 10	•	Red Line Extension Roadshow: Federation of Women Contractors	October 24
•	Building Small Businesses Orientation	October 10	•	Red Line Extension Roadshow: Black Contractors, Owners, and Executives	October 24
•	CTA Small Business Education Series: Professional Services (Third Day)	October 15		Illinois Asian American Civil Engineers Event	October 30





