



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.

Total Project Budget:	\$122.8 Million
Construction Contract Value:	\$67.9 Million
Earned to Date:	90% (As of November 2024)
Percent Change Orders to Construction Contract:	16.7%
Percent Time Used:	91.5% (As of November 2024, including time extension)
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:

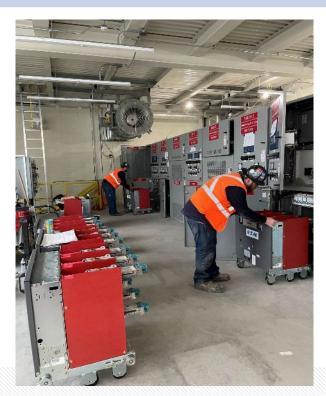
East Lake, Milwaukee & Illinois (ELMI) and Broadway substations



Construction Progress

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







Equipment Testing at Damen







Interior Finishes at Barry



cta Project Title: Western Brown Line Station Improvements

Justification of Need:	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:	\$8.7 M
Percent Change Orders to Construction Contract:	0
Percent Time Used:	29%
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: August 6,2024; Substantial Completion: January 13, 2026 (NTP2 + 525 days)
Designer of Record:	CDM Smith
Construction Manager/General Contractor:	CM: AECOM. GC: FH Paschen.



Project Title: Western Brown Line Station Improvements

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:	

Comparable Projects:

Quincy Loop Station Upgrade



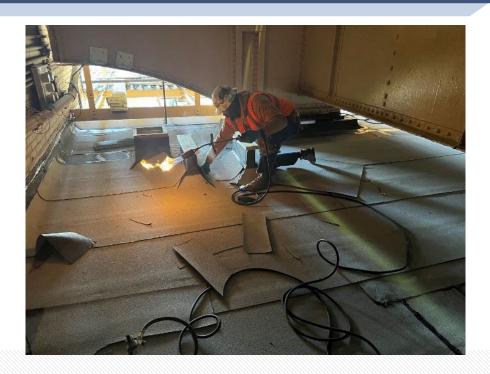
Project Title: Western Brown Line Station Improvements

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	
	Install Steel Angles	Complete
	Install Station Roofing	On-going
	Replace Exterior Entry Drip Pans	Q1 '25
	Replace Lincoln Walkway Lighting	Q1 '25
	Permitting	On-going On-going
	Building Envelope (masonry repairs, storefront replacement)	Q2 '25
	Electrical Upgrade	Q3 '25
Design		
	Stage 1 Design – 100%	Complete
	Stage 2 Design – 90%	Complete
	Stage 2 Design – 100%	Q1 '25



Project Title: Western Brown Line Station Improvements



Station House – Install Roofing around Equipment Curbs



Project Title: Western Brown Line Station Improvements



Inspecting Bolts for New Angles at Platform Level



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

JIIS	THE	ation	i of l	Need:

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:	\$8.5M
Percent Change Orders to Construction Contract:	0
Percent Time Used:	88%
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		
	Install and Detail New Structural Bridge Steel	Completed
	Set Deck Formwork and install Rebar	Planned late Q1 '25
	Pour New Bridge Deck	Planned late Q1 '25
	Pour Parapet Wall and Sidewalk	Planned early Q2 '25
	Install below bridge lighting	Planned Spring '25
	Install Bridge Canopy Steel/Roofing	Planned Spring '25
	Install Masonry for Bus Washroom	Planned Spring '25
	Directional Bore for Water and Sewer	Planned Spring '25



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



Ironworkers Torquing Bolts at Splice Plate



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



Preparing Existing Station House Beam for Repair/Paint



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:	45% (thru November 2024)
Percent Change Orders to Construction Contract:	0%
Percent Time Used:	60% (thru November 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 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 Loomis Stationhouse Entrance: Demolition of existing stationhouse, ramp and columns Structure & Shell Bridge Level Interiors Electrical and Mechanical Rooms Electrical and Sanitary Underground Services Loomis New ADA Ramp: Installation of new ADA ramp and columns Installation of new and profing system and MEP Morgan Substation: Structure & shell Bridge (1st) level and equipment (2nd) level interiors Electrical and Sanitary underground services Traction power equipment delivery, installation, testing and commissioning Hernitage Substation: Removal of existing traction power equipment Traction power equipment delivery, installation, testing and commissioning	Ongoing Ongoing Ongoing Ongoing Planned Ongoing Ongoing Ongoing Ongoing Planned

Delay Explanation:

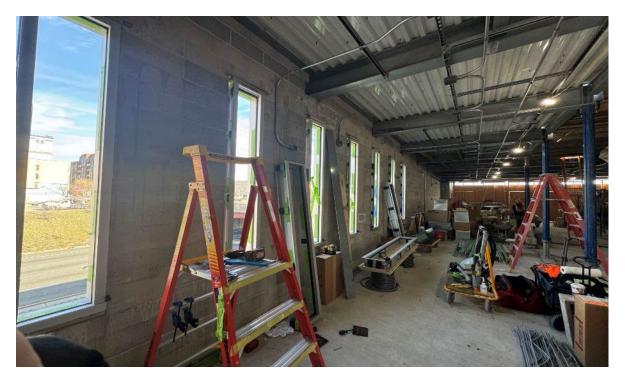
N/A





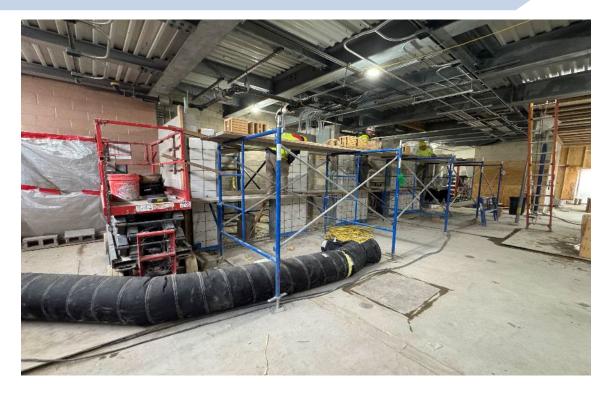
Racine Stationhouse Looking South





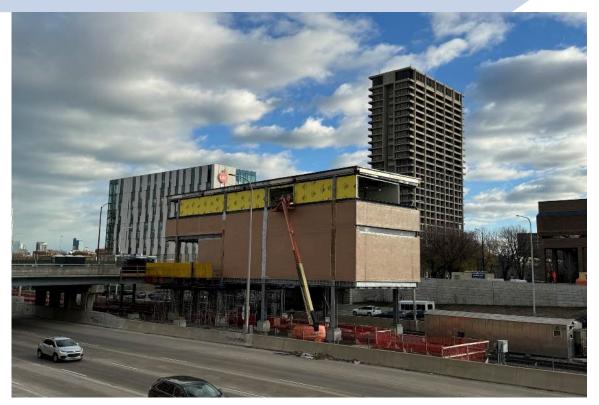
Racine Stationhouse Windows





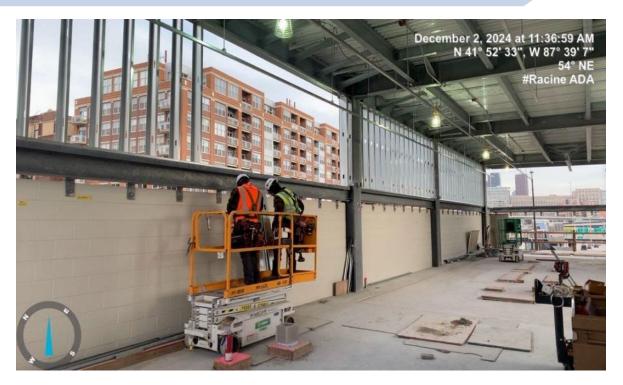
Racine Stationhouse Interior Rooms





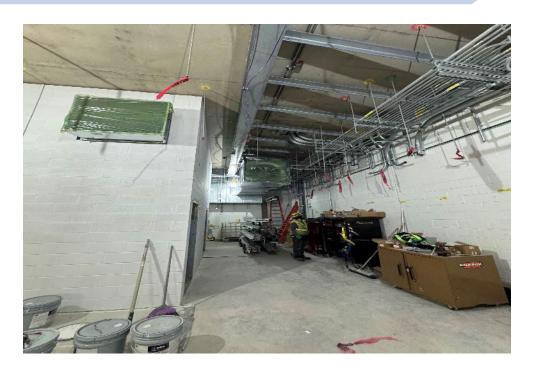
Morgan Substation Looking SE





Morgan Substation 2nd Level Louvers





Morgan Substation 1st Level Conduits and Bus Duct



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:	\$2,112,218
Used last Month:	\$42,473
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.

${\bf 29\ Stations\ and\ 14\ Bus\text{-}turn\text{-}arounds\ will\ have\ a\ detailed\ Scope\ of\ work\ which\ includes:}$

- · 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.



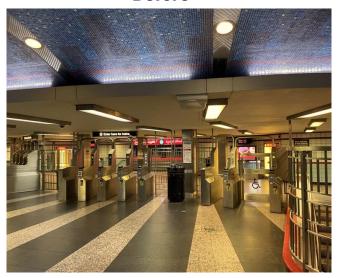
Department	Description	Status
Facility Maintenance	Rail Stations Full Program Scope 29 Stations (29 of 29 Completed) Cicero-Pink Kedzie-Pink Ridgeland-Green Sedgwick-Brown Paulina-Brown Davis Qakton/Skokie-Yellow Granville-Red Grand-Red	Completed
	Bus Turnaround Full Program (14 of 14 Completed) Grand/Streeter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

Delay Explanation:

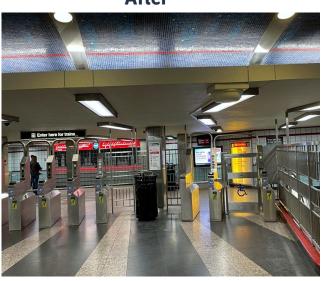
N/A



Before



After



Grand/Red – LED lighting upgrades



Before



After



Grand/Red – LED lighting upgrades







After



Grand/Latrobe BTA – Floor Tile Installation; Painting



Justification of Need:	The RPM Phase One Project is greatly needed in order to expand cato replace aging infrastructure.	apacity on CTA's most utilized rail line and
Priority of Project:	High	
Total Project Budget:	\$ 2.1 Billion (excludes Transit TIF interest payments)	
Construction Contract Value:	Original - \$1,272,275,929 Current - \$1,390,526,621	
Earned to Date:	81.7%	
Percent Change Orders to Construction Contract:	9.3%	
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.



Phase	Description	Status
Administrative / Design:	Continued submittal/revisions of required management plans Continued Design Development in support of Signal Improvements Part Ruman (DRR)	Ongoing Ongoing
Construction:	Red-Purple Bypass (RPB) Civil At-Grade Improvements – drainage installation and sewer lining, pavement restoration North Mainline Stage 3 track work and plinth installation Ravenswood Stage 3 track work Installation of noisewall for NM4 Installation of wall for Clark Substation Installation of utilities for Vautravers Building Continue installation of traction power cable and other traction power materials for NM3/NM4 Continue installation of ANR rail and Contact rail along NM#/NM4 at RPB Began installation of the NM5 traction power tie switch at the south end of the flyover track	Ongoing Ongoing Ongoing Ongoing Complete Complete Ongoing Ongoing Started
	Lawrence to Bryn Mawr Modernization Concrete substructure work and segmental erection	Ongoing
	 Bryn Mawr and Hollywood Aux Station Structural building work Platform precast panel installation, canopy erection Building Finishes MEP work Began build out of station comm room; started cable installations for technology devices Berwyn Station Structural building work Platform precast panels Platform canopy MEP work 	Ongoing Ongoing Ongoing Ongoing Started Ongoing Complete Ongoing Ongoing
	Argyle Station Structural building work Platform precast panels Lawrence Station	Complete Started
	Foundation work Platform electrical, steel detailing Platform precast panels Structural building work Trackwork – plinths, tamped tracks 1 and 2 in the area between Thorndale Interlocking and the new closed deck trackwork	Complete Complete Ongoing Ongoing Ongoing
	Corridor Signal Improvements (CSI) Continued signal system testing monitoring at Clark, Kenmore, Barry and Lakewood-Seminary Relay Houses Installation of signal and communications fiber optic cabling in the RPB area	Ongoing Ongoing



Red-Purple Bypass



North Main Line
Alley I
Noise Panel
Installation



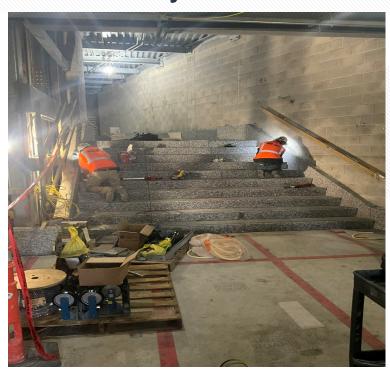
Red-Purple Bypass



North Main Line Clark Street Wall Patching Work



Lawrence to Bryn Mawr Modernization



Bryn Mawr Station
Hollywood Entrance
Granite Stairs
Installation



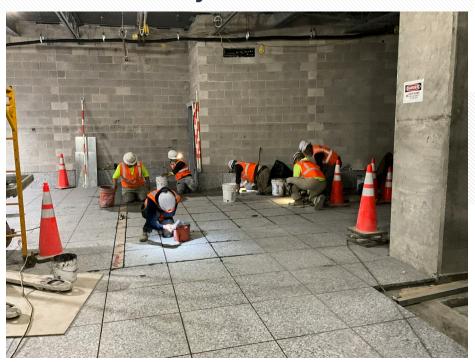
Lawrence to Bryn Mawr Modernization



Bryn Mawr Station
Bus Pad
Pour Work



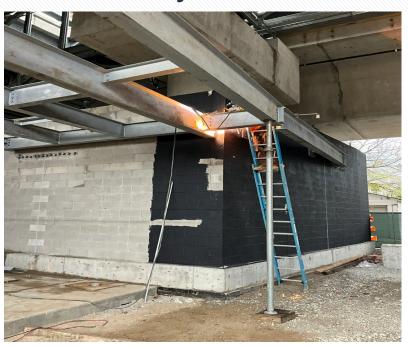
Lawrence to Bryn Mawr Modernization



Berwyn Station Granite Flooring Installation



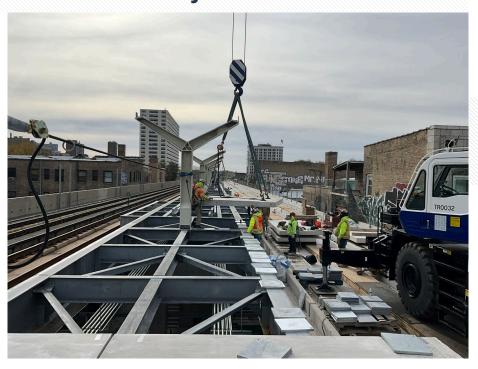
Lawrence to Bryn Mawr Modernization



Berwyn Station Welding Work



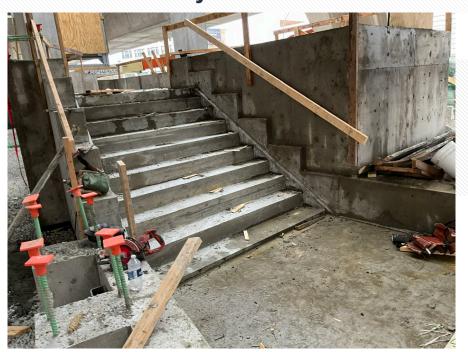
Lawrence to Bryn Mawr Modernization



Argyle Station Precast Panel Installation



Lawrence to Bryn Mawr Modernization



Lawrence Station
Stairs
Form Work



Community Outreach	Major Activities	Timing
The City Planning Department held a community meeting about future TOD sites in the 44th ward that will be available for development post-RPM construction.	 Weekly Red-Purple Bypass Project updates for 44th ward Lawrence to Bryn Mawr project updates for 46th, 48th wards Edgewater Chamber of Commerce – local businesses networking event Monthly virtual office hours (December) Chicago Department of Planning – TOD open house, 44th ward 	Weekly Bi-weekly Nov. 26 Dec. 2 Dec. 9



Project Title: Red Line Extension





Project Title: Red Line Extension





Project Title: Red Line Extension





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





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



RPM Phase I has created 2,557 construction trade labor jobs on the design-build team



2,139,608.19

\$

\$127,182,458.43 Wages Earned

RPM Phase I Workforce Goals



Workforce Innovation & Opportunity Act (WIOA)



Apprentice



Economically Disadvantaged Area (EDA)



December 2024 Outreach Events

•	Q4 Workforce Outreach Event @ Truman College	December 4 •	Olive-Harvey College Good Jobs Convening Panel Discussion & Luncheon	December 12
•	City of Chicago Veteran Business Enterprise Event	December 5		
	Obie and Mineral Committee Development Occurs in	• D	Black Contractors United (BCU) Holiday	December 13
١.	Chicago Minority Supplier Development Council (CMSDC) Holiday Brunch	December 6	Networking Event	
		•	RLE Roadshow @ National Association of	December 13
•	Red Line Extension (RLE) Certification Drive @ RLE Community Office	December 9	Minority Contractors	
		•	Follow Up – RLE Roadshow with Hispanic	December 16
•	RLE Roadshow @ Chatham Business Association	December 10	American Construction Industry Association	
•	Q4 Outreach Event @ Daley College	December 11 •	Chicago Public Schools (CPS) Capital Construction Summit	December 17
•	Holiday Small Business Diverse Supplier Expo	December 12		





