



Construction Project Briefing

May 10, 2023



Today's Presentation

- CDOT - Lake Line - Damen Station
- Non-Revenue Maintenance
- Traction Power Upgrades - Canal Tie House, Barry and Damen Substations
- Refresh & Renew Program
- Red and Purple Modernization Project



Project Title: CDOT - Lake Line - Damen Station

Justification of Need:

Priority of Project:	Medium
Total Project Budget:	
Construction Contract Value:	\$67,316,000.00
Earned to Date:	27%
Percent Change Orders to Construction Contract:	4.6%
Percent Time Used:	61%
DBE:	MBE: 30% WBE: 8% VBE: 0.96%
Funding Source:	TIF/CMAQ
Estimated Start Date/Estimated Length of Project:	897 days after NTP – New SC Date: 3/28/24
Designer of Record:	Perkins and Will
Construction Manager/General Contractor:	Arcadis / FH Paschen



Project Title: CDOT - Lake Line - Damen Station

Impact on Customers:	This will be a new Elevated CTA Station on the Lake Branch of the Green Line at Damen and Lake Streets. CTA has also implemented slow zones due to structural on-going work.
Benefit to System:	The new station will provide transit connectivity, convenience and amenities to residents, workers and visitors alike.
Benefit to Community:	New, modern transit facility that will serve the burgeoning needs of the Kinzie Industrial Corridor. The new station will also support visitors to the United Center, Malcom X College and educational institutions.
Impact on Accessibility:	This will be a fully accessible CTA station equipped with escalator and elevator access to both platforms and accessible path to the new station house.
Customer Communication Need:	Customer and Community facing is being handled through CDOT.

Comparable Projects:

Morgan Station on Green Line



Project Title: CDOT - Lake Line - Damen Station

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none"><li data-bbox="211 353 611 375">• Pour pier caps at bents 2222 & 2223<li data-bbox="211 425 765 447">• Frame and pour leveling pads at bents 2224 & 2226<li data-bbox="211 497 745 519">• Remove rivets to install new bolsters 2224 & 2226<li data-bbox="211 570 616 591">• Frame and pour 1st lift of Tower walls<li data-bbox="211 602 759 624">• Move shoring towers to 2224 & 2226 / transfer load<li data-bbox="211 674 739 696">• Prepare Mock-Up for Architectural Exposed Steel	Completed On-Going On-Going On-Going May Planned Q3



Project Title: CDOT - Lake Line - Damen Station



Damen Station

**Pouring Pier Cap
Foundation at
Bents 2222 and
2223 south**



Project Title: CDOT - Lake Line - Damen Station



Damen Station

**Ironworkers
installing
Reinforcement
Core Tower Wall**



Project Title: CDOT - Lake Line - Damen Station



Damen Station

Installing Concrete Forms at Core Tower



Project Title: Non-Revenue Rail Vehicle Facility

Justification of Need:

Priority of Project:	Medium
Total Project Budget:	\$65,902,503
Construction Contract Value:	\$44,370,833
Earned to Date:	43% (thru January 2023)
Percent Change Orders to Construction Contract:	4% (Change Order #1 – \$1,694,221 – Executed October 4 th , 2022)
Percent Time Used:	81%
DBE:	Goal: 30% Design / 27% Construction Commitment: 30% Design / 27% Construction Workforce Goals: 10% Career Opportunity/ 10% Apprentice/ 35% EDA Outreach events conducted: 3 (CTA / Clark) Contract is on track to meet the DBE goal
Funding Source:	IDOT - Rebuild Illinois
Estimated Start Date/Estimated Length of Project:	NTP: 3/24/21 Project Duration 803 Days – Change Order 1
Designer of Record:	STV Inc.
Construction Manager/General Contractor:	WSP/Clark Construction

Detailed Overview of Scope: Perform Design/Build Services to design and construct a new maintenance facility at the CTA’s 63rd Lower Yard. This facility will be utilized to repair and maintain CTA’s Non-Review Rail Mounted Equipment Fleet. This facility will include three maintenance and inspection tracks, a vehicle wash track with equipment, a paint booth, a welding room, a multipurpose lunchroom and classroom, locker and washroom facilities, supervision offices, and storage facilities.



Project Title: Non-Revenue Rail Vehicle Facility

Impact on Customers:	While no direct impact to rail service, this facility will allow CTA Rail Maintenance to efficiently maintain the CTA's non-revenue fleet. This will result in equipment being in good working order and ready to perform necessary repairs and upkeep to the CTA system. This will allow CTA to maintain reliable service to our customers.
Benefit to System:	The ability to effectively and efficiently maintain the CTA's non-revenue fleet will result in equipment being in good working order and ready to perform necessary repairs and upkeep to the CTA system.
Benefit to Community:	This facility will be design to compliment the surrounding neighborhood from an aesthetic perspective. It will also bring additional activity to the immediate neighborhood.
Impact on Accessibility:	The building will obtain City of Chicago Building permits, which included accessibility reviews.
Customer Communication Need:	Customer impact will be minimal. Community outreach efforts are ongoing with local elected official and the neighboring school to discuss and minimize impacts during construction. Communications will continue with the surrounding residences and business regarding any upcoming impacts to the surrounding area during construction.

Comparable Projects:



Project Title: Non-Revenue Rail Vehicle Facility

Construction Progress

Phase	Description	Status
Construction	Design Phase <ul style="list-style-type: none">• Design Package 3 – W48 Waterline Permit• Design Package 4 – 61st Street Parking Lot• Final Design	In-Progress In-Progress Complete
	Construction Phase <ul style="list-style-type: none">• Structural Steel Installation• Clerestory Framing• Roof Drain Installation• Roofing Installation• Punch Windows Frame Installation• Duct banks Installation• Punch Windows Glass Installation• Wash Pit Excavation• Helicopter Lift for Equipment• Oil-Water Separator Installation	Complete Complete In Progress In Progress In Progress In Progress In Progress In Progress Upcoming Upcoming

Delay Explanation:



Project Title: Non-Revenue Rail Vehicle Facility



CAP - Installing Roof Drains



Project Title: Non-Revenue Rail Vehicle Facility



Concord – Wash Pit Excavation



Project Title: Non-Revenue Rail Vehicle Facility



Aldridge – Pouring Duct Banks



Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations

Justification of Need:

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.

Priority of Project:	High
Total Project Budget:	\$122.8 Million
Construction Contract Value:	\$67.8 Million
Earned to Date:	32% (As of March 2023)
Percent Change Orders to Construction Contract:	0
Percent Time Used:	52% (As of March 2023)
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: 10.20.21 Estimated Duration 1020 days/Substantial Completion August 5, 2024
Designer of Record:	TYLin
Construction Manager/General Contractor:	WSP / John Burns Construction



Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations

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



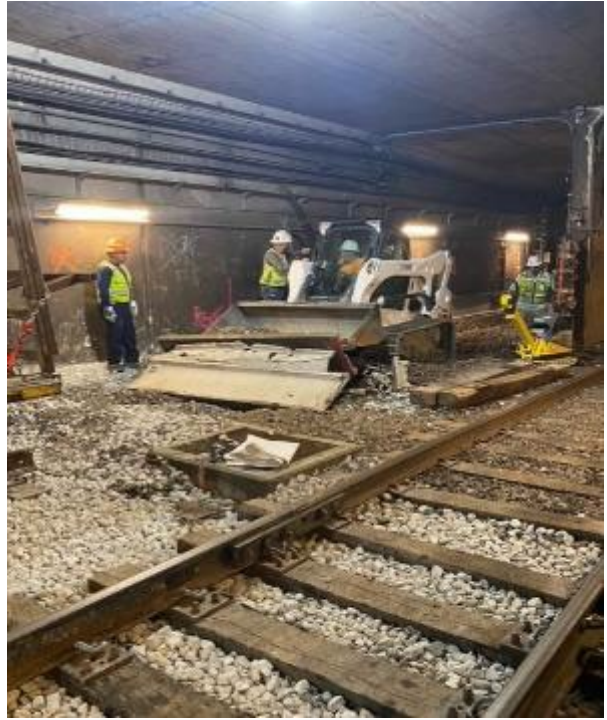
Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations

Construction Progress

Phase	Description	Status
Haymarket Substation	<ul style="list-style-type: none">• Install new electrical equipment	Upcoming
	<ul style="list-style-type: none">• Build building interior, flooring, rooms and finishes	Upcoming
	<ul style="list-style-type: none">• Equipment testing and commissioning.	Upcoming
Canal Tie-House	<ul style="list-style-type: none">• Fabricate new Canal Tie-House equipment	Ongoing
	<ul style="list-style-type: none">• Install new Canal Tie-House equipment	Ongoing
	<ul style="list-style-type: none">• Install, form, and pour new Ductbank 2	Upcoming
Damen Substation	<ul style="list-style-type: none">• Fabricate new substation electrical equipment	Ongoing
	<ul style="list-style-type: none">• Build building exterior walls and roof	Ongoing
	<ul style="list-style-type: none">• Build building interior, flooring, rooms and finishes	Upcoming
Barry Substation	<ul style="list-style-type: none">• Obtain foundations permit	Ongoing
	<ul style="list-style-type: none">• Obtain building permit	Ongoing
	<ul style="list-style-type: none">• Site excavation and preparation for foundation micropiles and grade beams.	Upcoming
Belmont Crossover	<ul style="list-style-type: none">* Pre-planning and site verification	Ongoing
	<ul style="list-style-type: none">• Pre-Building trackwork and pre-cast ductbanks	Ongoing
	<ul style="list-style-type: none">• Mobilize and demo existing traction power ductbanks	Ongoing



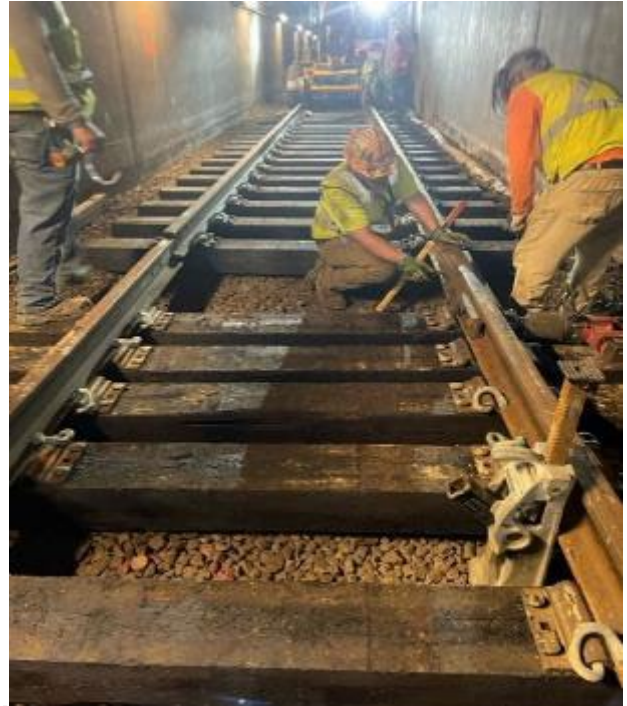
Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations



Old NB track, ballast and pre-cast walkway removal at Belmont



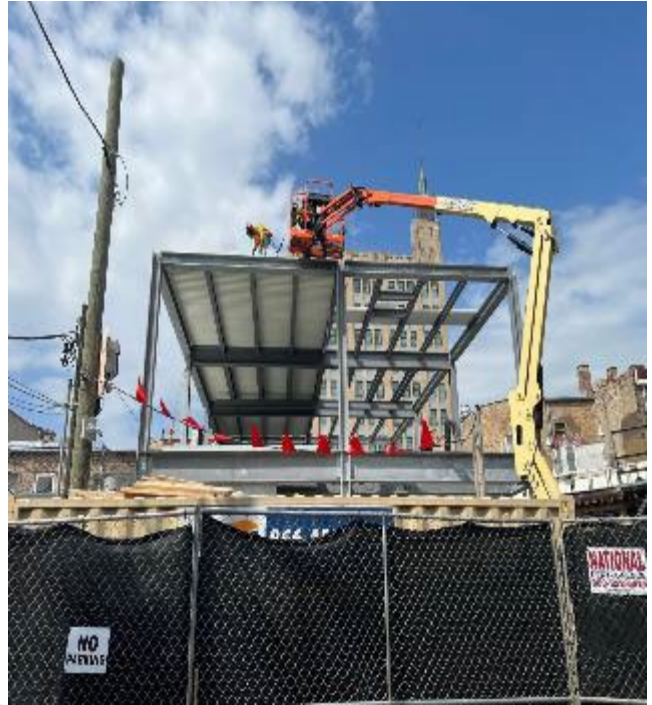
Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations



NB track replacement and inspection at Belmont



Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations



Continued Structural Steel erection and roof installation at Damen



Project Title: Refreshed & Renewed

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.

Justification of Need:

Priority of Project:	Medium
Total Project Budget:	\$6,500,000
Expended to Date:	1,339,342.00
Used last Month:	\$188,143.00
Funding Source:	Various
Estimated Start Date/Estimated Length of Project:	January 2021 to December 31, 2023
Contractor	CTA Forces

29 stations 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.

12 Bus Turnarounds will have a detailed Scope of work which includes:

- Ensuring area is graffiti free;
- Re-painting painted surfaces;
- LED lighting conversions and component;
- Address and repair any unsafe defects such as spalling concrete;
- Upgrades to employee facilities.



Project Title: Refreshed & Renewed

Impact on Customers: (Slow zones, single tracks, reroutes, weekends, etc.)	No track access occurrences within the scheduled work of the Refreshed & Renewed program will affect customers. Minimal impacts to customers will be work-arounds at any given station/ facility that may affect customers, or employees, for a relatively short amount of time (Typically less than 1 day.)
Benefit to System:	The Refreshed & Renewed Program is implemented to promote the continued safety, security and longevity of all CTA Facilities including, not limited to: Rail Stations and Platforms, Bus Garages and Rail Shops across the system.
Benefit to Community:	Improved overall lighting and wayfinding signage, newly painted & refreshed stations, safety, cleanliness and appearance. Focus on the Customer experience, both Internal and external.
Comparable Projects:	
<ul style="list-style-type: none">• Station Renewal• Logan Square Station Renewal	



Project Title: Refreshed & Renewed

Department	Description	Status
Facility Maintenance	<p><u>Rail Stations Full Program Scope 29 Stations (3 of 29 Completed)</u></p> <ul style="list-style-type: none">• Addison/ Red Line• 35th/ Red Line• 35th/ Green Line• Montrose/ Brown• Halsted/ Orange• Cicero/ Green <p><u>Bus Turnaround Full Program (2 of 12 Completed)</u></p> <ul style="list-style-type: none">• 79th & South Shore• 63rd & Archer• Central & Harrison	<p>Completed</p> <p>Completed</p> <p>Completed</p> <p>In-Progress</p> <p>In-Progress</p> <p>Scheduled</p> <p>Completed</p> <p>Scheduled</p> <p>Scheduled</p>

Delay Explanation:
N/A



Project Title: Refreshed & Renewed

Before



After



Addison/Red Line
Repair & paint storefront panels & framing

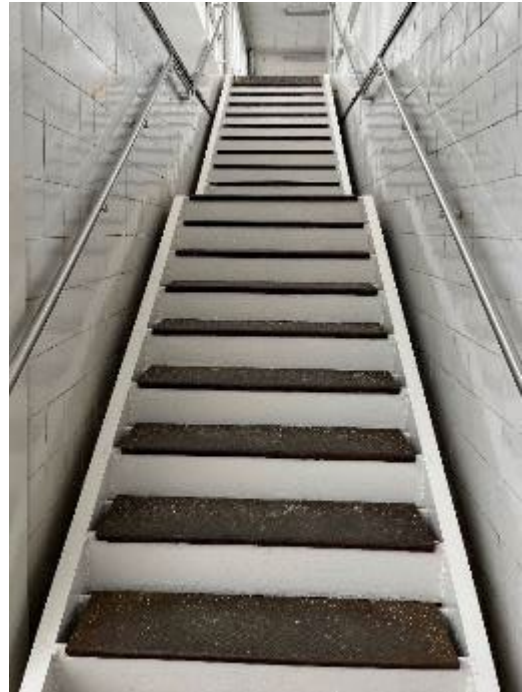


Project Title: Refreshed & Renewed

Before



After



35th/Red Line - Paint all staircases



Project Title: Refreshed & Renewed

Before



After



35th/Red Line – Paint all staircases

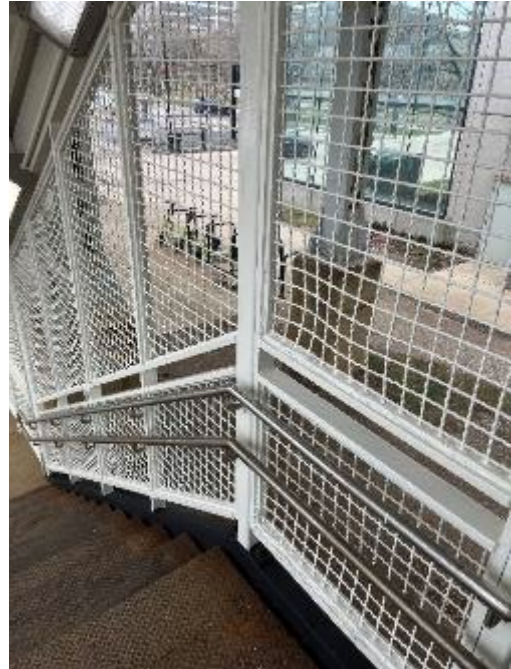


Project Title: Refreshed & Renewed

Before



After



35th/Green Line – Paint all staircases



Project Title: Refreshed & Renewed

Before



After



35th/Green Line – Paint aux station entrance & PM Rotogate (CTA Revenue) Inspect all LED lighting; replace fixtures & bulbs, as necessary, Replace all damaged/missing signage; as necessary.



Project Title: Refreshed & Renewed

Before



After



79th & South Shore – Painting & Lighting Upgrade



Project Title: Refreshed & Renewed

Before



After



79th & South Shore – Flooring Upgrade



Project Title: RPM Phase One – Design-Build Contract

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 - \$1,268,818,121	
Earned to Date:	62.4%	
Percent Change Orders to Construction Contract:	-0.27%	
Percent Time Used:	74.0%	
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-Flour 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:	
	<ul style="list-style-type: none"> • 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. 	

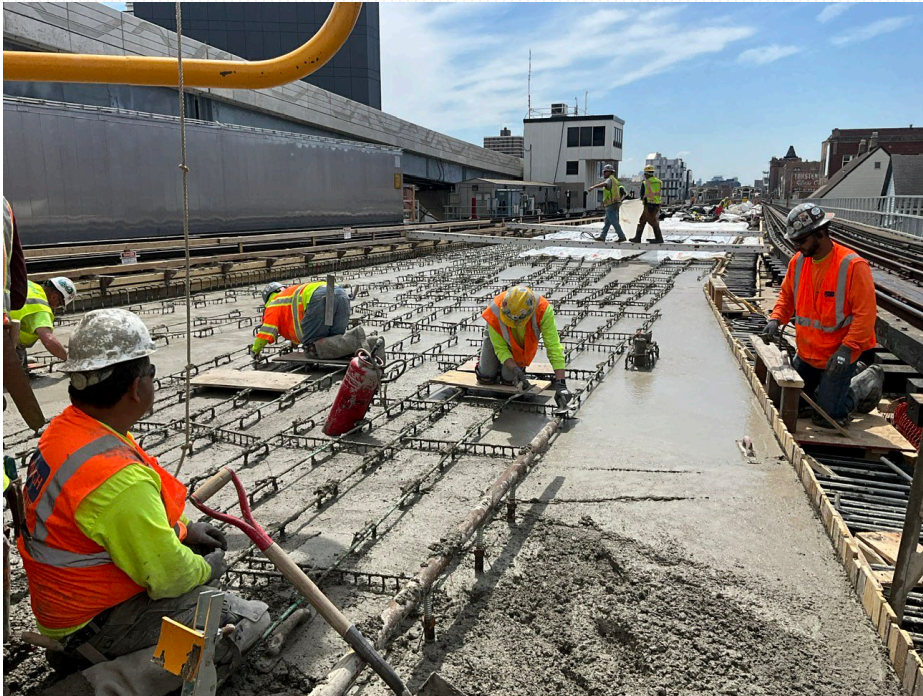


Project Title: RPM Phase One – Design-Build Contract

Phase	Description	Status
<p>Administrative / Design:</p> <p>Construction:</p>	<ul style="list-style-type: none"> ▪ Continued submittal/revisions of required management plans ▪ Continued Design Development in support of Red-Purple Bypass, Lawrence to Bryn Mawr Modernization, and Corridor Signal Improvements <ul style="list-style-type: none"> ▪ Red-Purple Bypass (RPB). <ul style="list-style-type: none"> – Ravenswood structure rehabilitation – Clark Relay House power distribution cable installation – Stage 2 Pre-cast beam and structural steel installation – North Mainline Stage 2 closed deck installation – Installation of signal cabling for permanent bypass track equipment – Installation of cable brackets below the new North Mainline structure ▪ Lawrence to Bryn Mawr Modernization <ul style="list-style-type: none"> – Pre-cast Segment fabrication – Bryn Mawr Temp Station construction (Stage B) – Argyle Temp Station construction (Stage B) – DF Track construction – Winona Relay House construction – Sound Wall Barrier erection – Track installation – Superstructure finishing activities – Steel erection for the south transition bridge – Footwalk and Handrail installation – Installation of traction power elements including contact rail, ANR, brackets and cables – Installation of CCTV camera poles and cabling along the LBMM structure ▪ Corridor Signal Improvements (CSI) <ul style="list-style-type: none"> – Installation of snake tray and brackets in NM4 walkway south of Winona Ave – Installation of hangers and cabling inside and below the LBMM structure – Wiring and pre-testing of Winona Relay Room equipment on site – Installation of signal equipment including track circuits, signals, switches, etc. 	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Completed</p> <p>Completed</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>
<p>Delay Explanation:</p>		



Red-Purple Bypass



**North Main Line
Concrete Deck
Pour**



Red-Purple Bypass



**Clark Relay House
HVAC Installation**



Lawrence to Bryn Mawr Modernization



**Bryn Mawr Stage
B Temp Station
Roof Trusses
Installation**

Lawrence to Bryn Mawr Modernization



**Argyle Temp Station
Power and Lights
Overhead Conduits
Installation**

Lawrence to Bryn Mawr Modernization



**Argyle Temp
Station
Platform
Installation**



Project Title: RPM Phase One – Design-Build Contract

Lawrence to Bryn Mawr Modernization



**Track Work
Third Rail
Installation**



Project Title: RPM Phase One – Design-Build Contract



WTS Innovative Transportation Solution Award

	Outreach type	Major Activities	Timing
Community	 <p><i>President Carter takes a swing at embankment wall as part of CTA's announcement on April 13.</i></p>	<ul style="list-style-type: none"> • Weekly Red-Purple Bypass Project updates for 44th ward • Lawrence to Bryn Mawr project updates for 48th ward • RPM Open for Business update meeting with Lakeview East, Edgewater and Uptown chambers • Sheridan Park neighbors project update • Buena Vista condo association project update • April monthly "Virtual Office" Q&A with constituents • Announcement and press conference about CTA plans to remove mile of embankment wall & create new public space 	<p>Weekly</p> <p>Bi-weekly</p> <p>March 16</p> <p>March 30</p> <p>March 31</p> <p>April 11</p> <p>April 13</p>
Workforce & SBE/DBE	 <p><i>CTA staff at Tracks to Trade Event at Simeon H.S..</i></p>	<ul style="list-style-type: none"> • Monthly DBE/Workforce Outreach & Compliance Meeting • Tracks to Trade Event at Simeon H.S. • DBE and Workforce Numbers as of 3/31/2023 • Dollars Awarded To Date: \$239,533,314 <ul style="list-style-type: none"> • Unique DBE Firms To Date: 89 • Unique Firms New to CTA: 34 • Total Labor Hours Produced: 1,202,435 • Total Dollars Earned: \$70,144,289 • Jobs created to date (construction trade labor on the design-build team): 1,821 individuals 	<p>Ongoing</p> <p>April 27</p>