

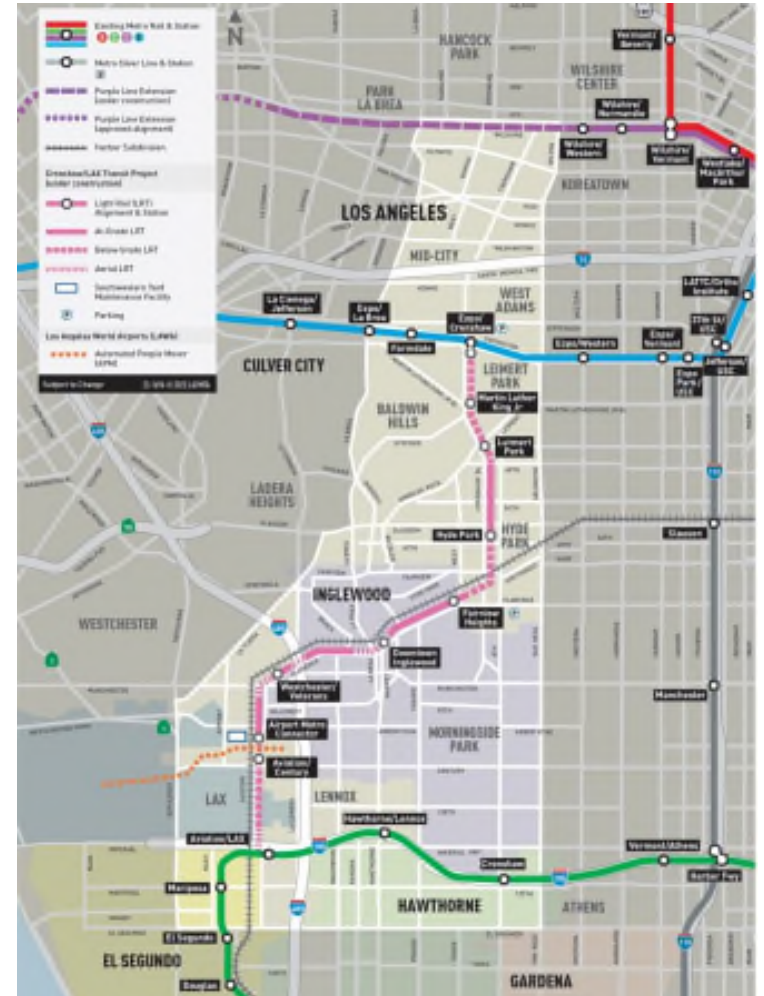
Next stop: more rail.

C & K Line Operating Plan Update



K Line is Now Open

- The K (Crenshaw) Line Project is a new 8.5-mile, eight station light rail line linking the C Line (Green) to the E Line (Expo).
- On October 7, 2022 the K Line began operating between Expo/Crenshaw and Westchester/Veterans stations.
- A free bus shuttle connects the Westchester/Veterans and Aviation/LAX stations.
- K Line connection to the C Line anticipated in late 2023.
- Airport Metro Connector (AMC) is now under construction, with an anticipated late 2024 opening.



Background: 2018 Board Motion

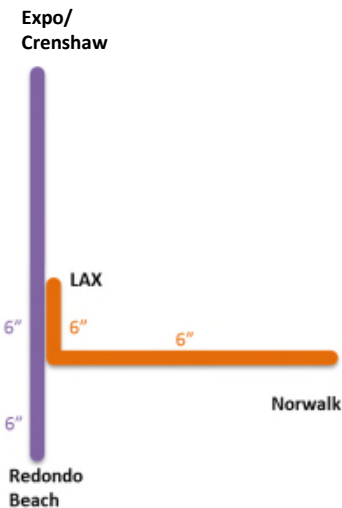
Motion 28.1 from Board Item 2018-0730 in December 2018: that the Board instruct the CEO to:

- A. implement Alternative C-3 for the Crenshaw/LAX -Green Line Operating Plan as a 1 year pilot plan in anticipation of the opening of the LAX Automated People Mover (APM) and 96th Street Station, maintaining the existing headways on the Green Line;
- B. report back to the Metro Board one (1) year after the pilot is over to reevaluate the ridership and travel demand; and
- C. as a new policy, bring future substantive changes to rail operating plans to the Metro Board for approval as a matter of course, instead of “receive and file.”

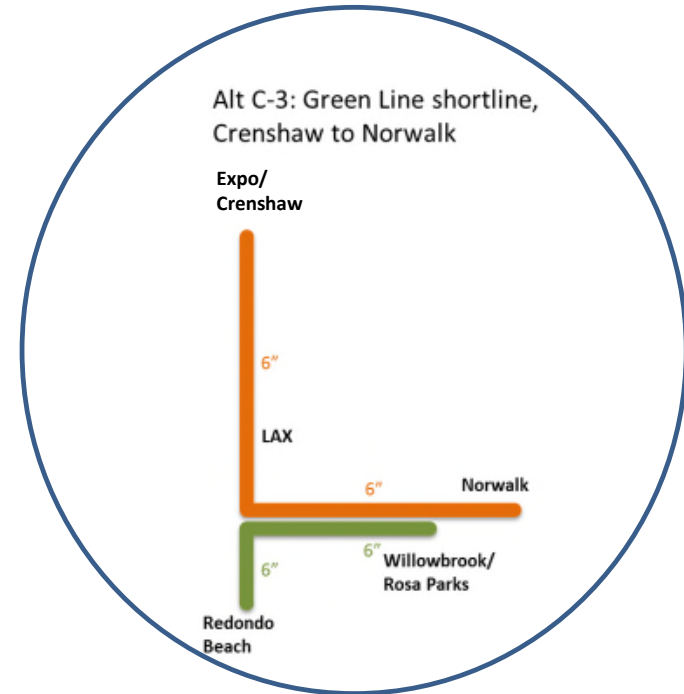
Alt C-1: Crenshaw/Norwalk Interline with Redondo Shuttle



Alt C-2: Crenshaw/Redondo Interline, Norwalk Shortline



Alt C-3: Green Line shortline, Crenshaw to Norwalk



What Has Changed Since 2018



New construction and opening schedule for AMC and K Line



NextGen Bus Plan, increased connections with C Line to match travel patterns



Operator Shortage

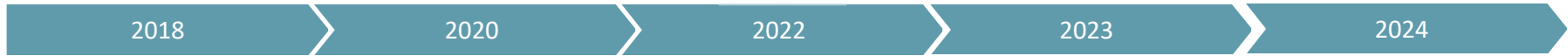


Future Torrance and Northern Extensions of C & K Lines

Project Sequencing

- Motion 28.1 in 2018 assumed a one-year pilot of C-3 operating plan would be completed before the new station for LAX would start construction.
- Construction of the Airport Metro Connector began in late 2021, before the K Line opening in October 2022, which prevented the implementation of C3
 - *This makes the one-year pilot evaluation no longer possible ahead of the opening of the LAX Automated People Mover and LAX/Metro Transit Center Station (AMC).*
- Metro is now seeking to revisit with the community on the selection of a permanent option for integrating the C Line (Green) and K Lines in anticipation of the opening of the LAX Metro Transit Center Station (AMC)

Project Sequencing



Metro Board Motion 2018-0730

- Intended to have C Line continue to operate the current routing for a 1-year pilot, well in advance of AMC opening.
- Board motion directs staff to revisit the Operations Plan in anticipation of AMC. This review addresses that directive.

Project Delays

- Due to delays in the Crenshaw/LAX project, minimal 14-month gap now between Crenshaw and AMC openings.
- With a 14 month window, there is not enough time to run a 12-month pilot prior to AMC opening.

Alignment Opens

Westchester/Veterans to Expo/Crenshaw (October 2022).

More Openings

Aviation/LAX to Expo/Crenshaw, integrated with the C Line (Late 2023).

More Openings

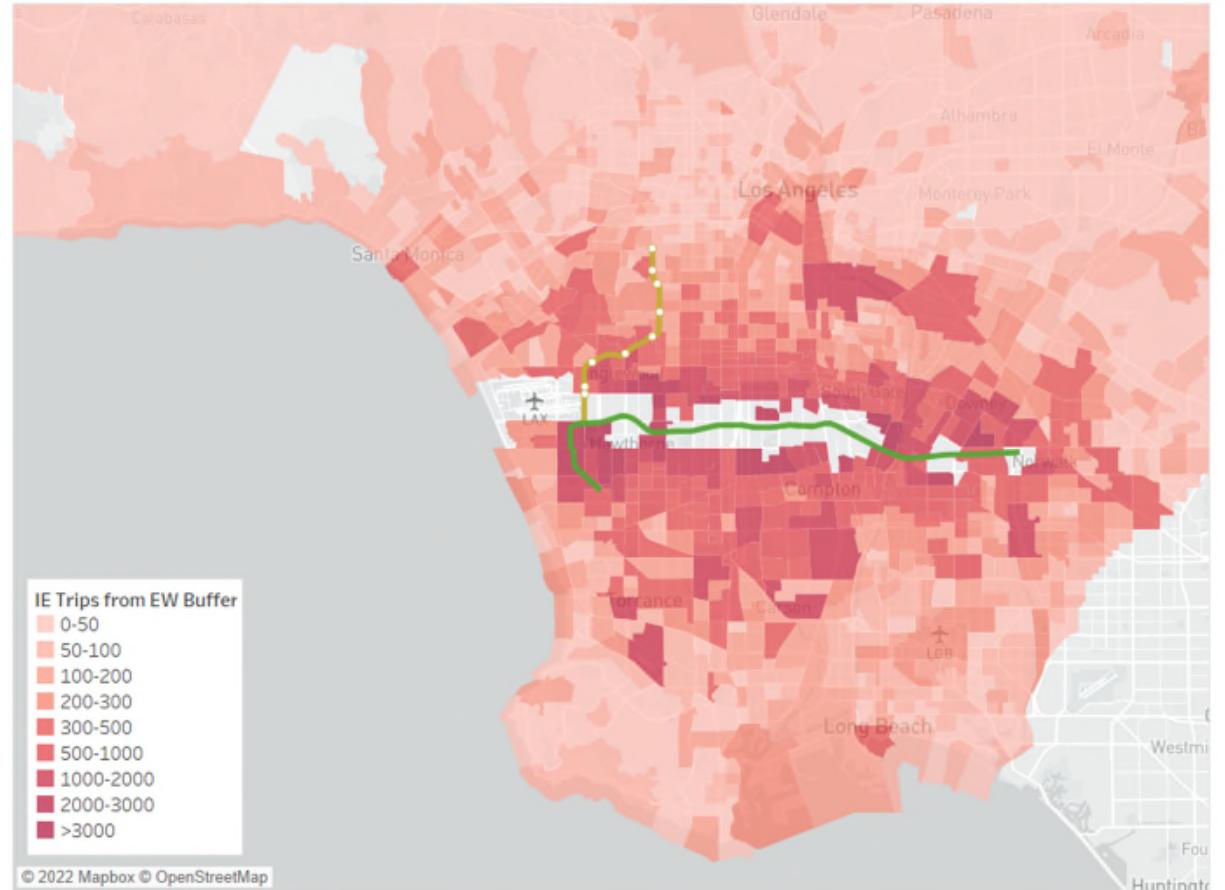
LAX/Metro Transit Center Station (AMC) opens (Late 2024).

There is no longer enough time to conduct a one-year pilot of the C-3 operating plan before adopting a permanent operating plan.

A recommendation must be developed that is consistent with the new LAX Automated People Mover and the 96th St Station (AMC).

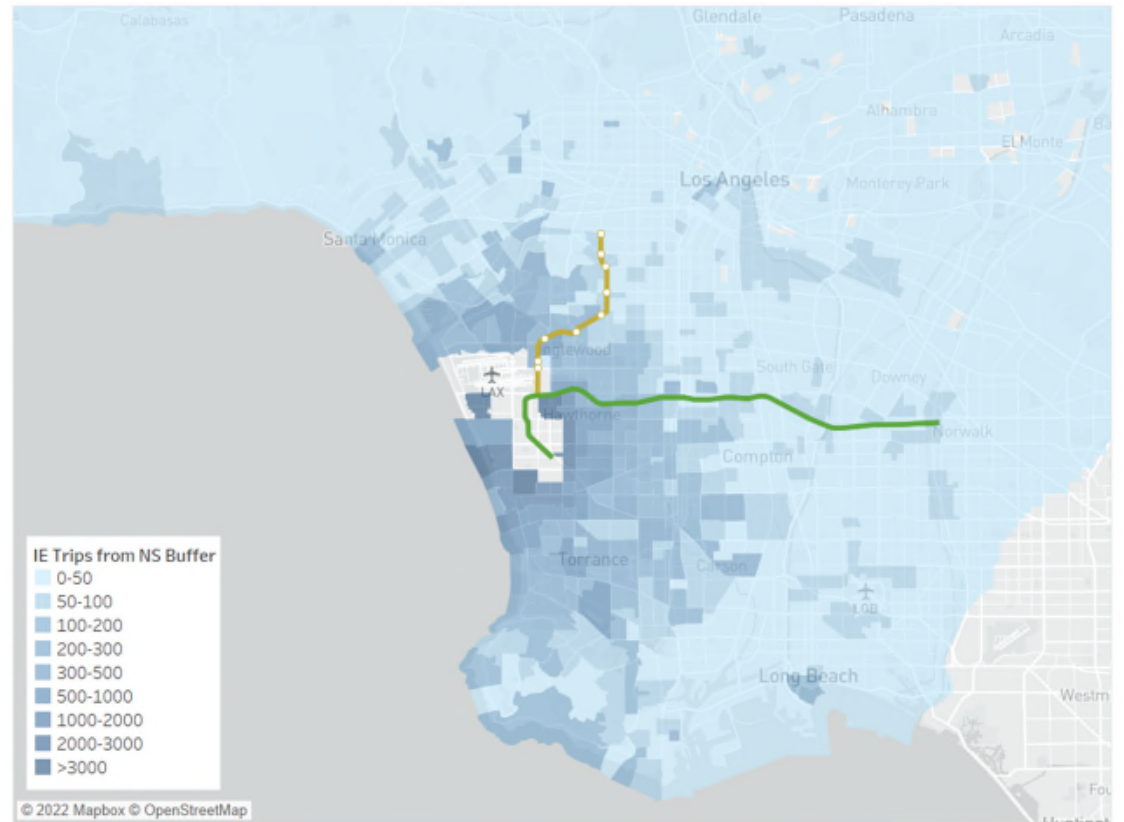
2021 Travel Patterns – C Line East

- This map illustrates all trips (not just transit trips) in 2021 (COVID) originating in the catchment zone (grey area) around the C Line between Norwalk and Aviation/LAX Stations.
- In 2021, similar to 2019 (pre-COVID), travel from this zone was mostly destined for areas surrounding C Line.



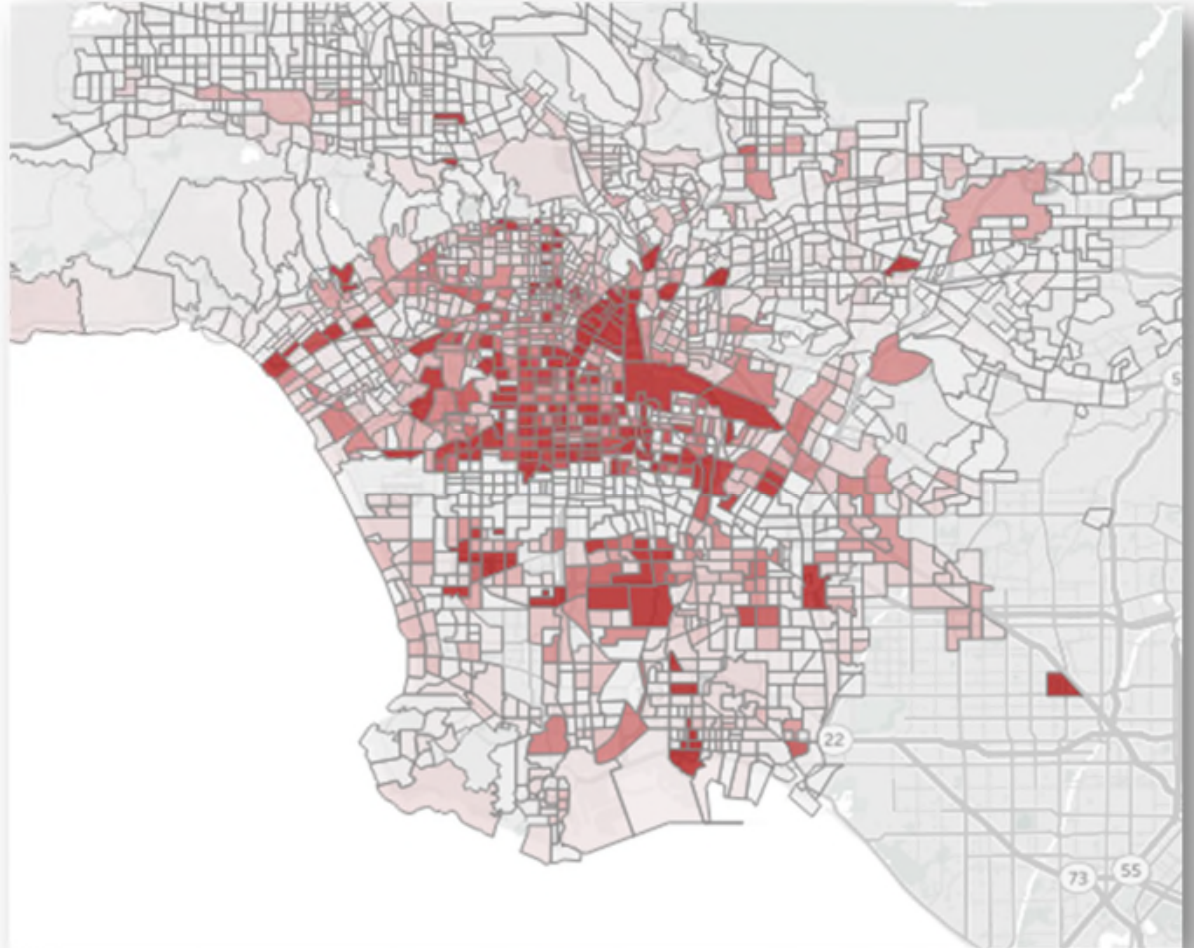
2021 Travel Patterns – C Line West

- This map illustrates all trips (not just transit trips) in 2021 (COVID) originating in the catchment zone around the C Line between Aviation/LAX and Redondo Beach Stations (area shown in light grey)
- In 2021, similar to 2019 (pre-COVID), trips from this zone are primarily destined for areas to the north and south of the zone



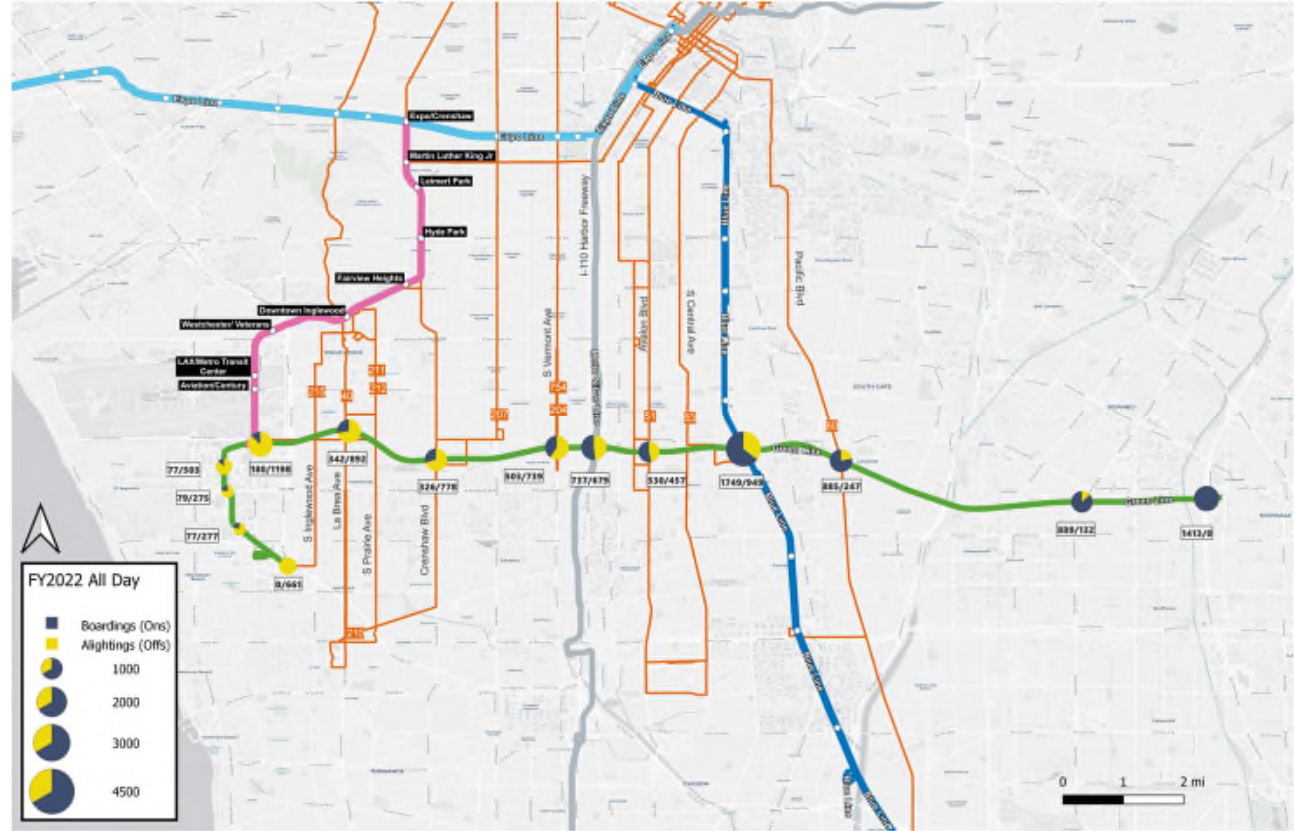
C Line Ridership (TAP data)

- This map illustrates transit trips based on TAP data for C Line between Norwalk and Aviation/LAX Stations.
- C Line riders travel to Equity Focus Communities primarily north of the C Line in South LA, and to downtown LA (red areas).
- The NextGen Bus Plan (October 2020) has now created an all-day frequent network of 10-min. with better bus services connecting C Line riders to their final destinations.



2022 C Line – Westbound All Day

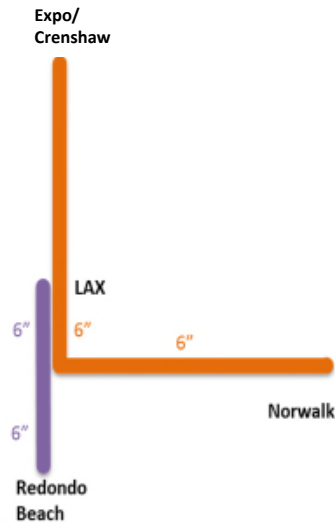
- In 2022, C Line ridership shows the same patterns as 2019.
 - High turnover (boarding/alighting) of C Line riders occurs at stations between Willowbrook/Rosa Parks and Aviation/LAX
 - These stations link C Line riders with Metro A Line (Blue) Rail, J Line (Silver) BRT, and other key NextGen north-south bus corridors (Central, Avalon, Vermont, Western, Crenshaw, Hawthorne)
 - These NextGen Tier 1 all-day high frequency (10-minute or better weekdays) north-south bus corridors link with Equity Focus Communities



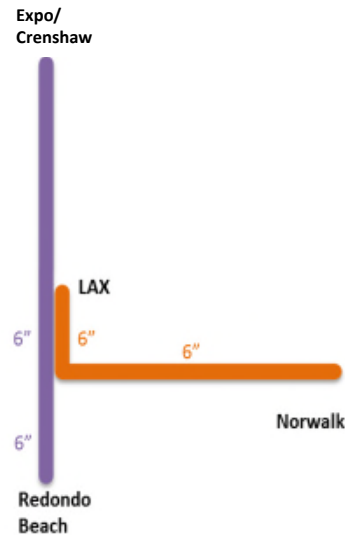
Operational Impacts

- The COVID-19 pandemic and a tight labor market has resulted in a continuing shortage of operators.
- C3 requires significantly more operators and railcars than either C1 or C2 as it has more service overlap between the two lines.

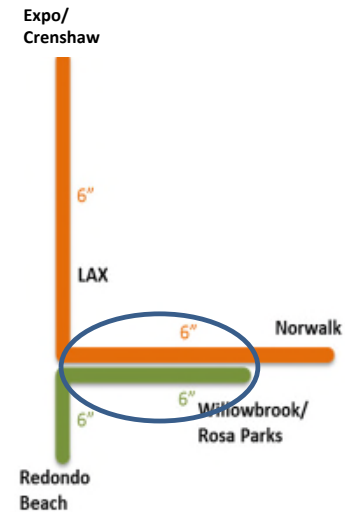
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Alt C-2: Crenshaw/Redondo Interline, Norwalk Shortline



Alt C-3: Green Line shortline, Crenshaw to Norwalk



Future Extension to Torrance (South)

C Line to Torrance Extension

- Measure M Project
- Draft EIR to be released in January 2022
- Opening Year 2030-2032

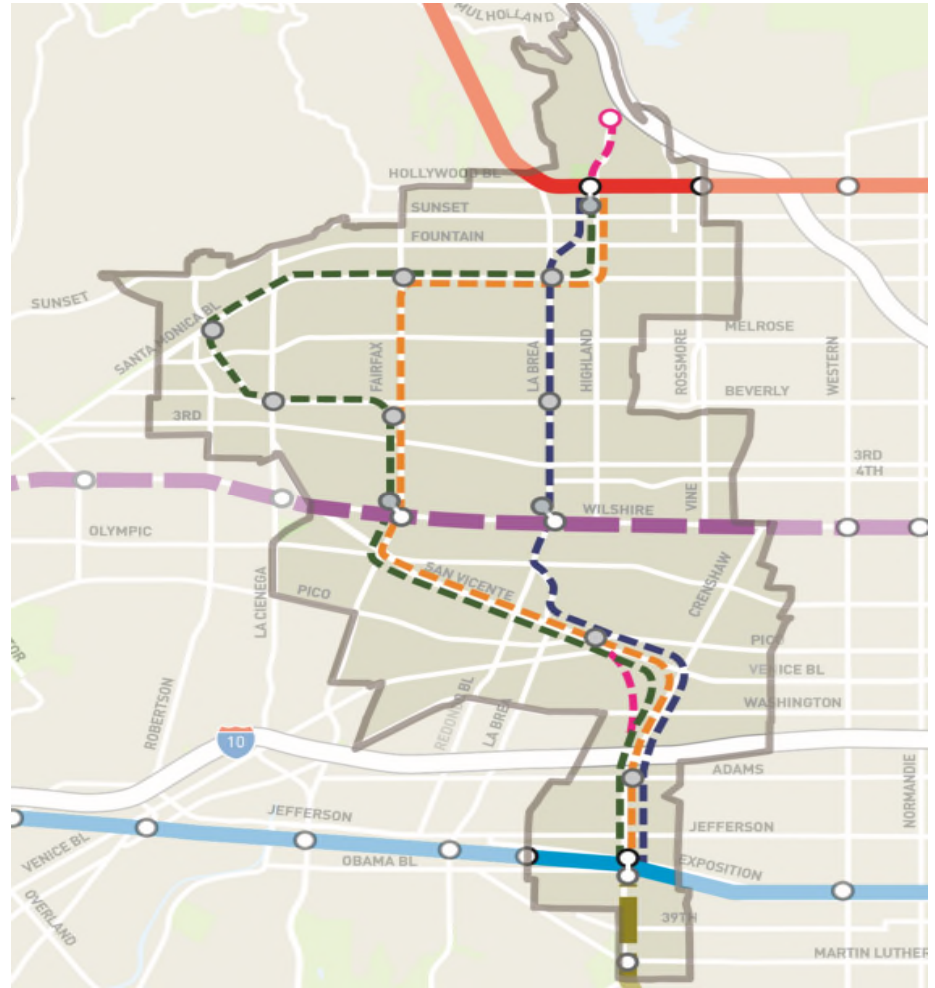


Future Extension to Hollywood (North)

Crenshaw Northern Extension

- Measure M Project, has started its environmental work to make the project "shovel-ready"
- Measure M schedule has it opening Year 2047, but local efforts are underway to identify early delivery
- Provides key connections to the D Line (Purple) and B Line (Red) subways at Wilshire Bl and Hollywood

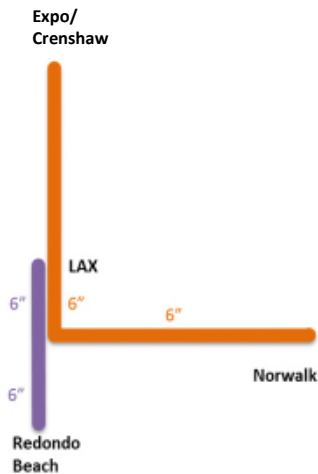
Combination of the existing K Line, the C Line west of Aviation/LAX Station, the Torrance and Hollywood extensions creates an easy to understand north-south corridor that matches overall regional travel demand.



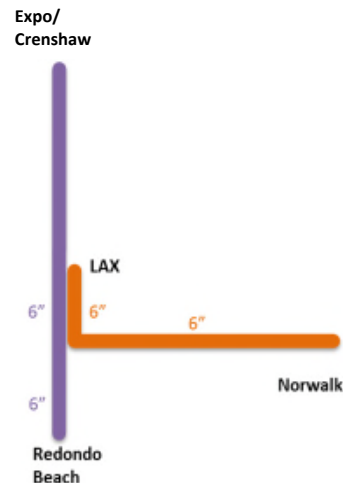
Evaluation of Options

Evaluation Criteria	C1	C2	C3
Simple network	Green	Green	Yellow
All branches have direct access to LAX Automated People Mover	Green	Green	Red
Matching Regional Travel Patterns	Green	Yellow	Yellow
Minimized Extra Rail Operators and Rail Cars	Yellow	Green	Red
Expansion South & North creates simple new North-South Line	Yellow	Green	Red

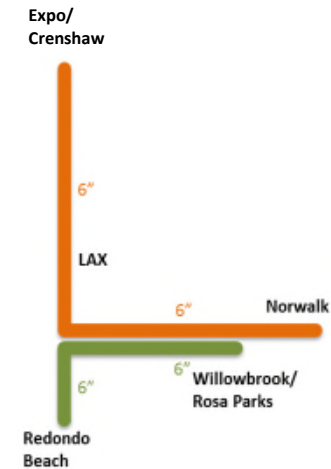
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Outreach Efforts – Have Your Say

- Survey Outreach to existing C Line, K Line, and other riders (in person, online)
- Public meetings/focus groups – dates to be announced
- Presentations at Metro Service Councils, Community Advisory Council and Crenshaw Leadership Council
- Stakeholder presentations (COGs, LAWA, Municipalities)
- Outreach to existing C Line (Green) and K Line riders
- Project updates sent out via email
- The Source, Twitter and Facebook postings

Next Steps

- Collect feedback with an online survey and public/stakeholder meetings (March):
- Surveys and feedback will be collected:
 - In-person at C & K Line Stations
 - Email: servicechanges@metro.net
 - Online at <https://cvent.me/g1QyXO?l=en-US> and QR code:
 - Phone: 213.922.2736
 - By mail: Attn: Service Development, One Gateway Plaza, Mail Stop 99-7-1, Los Angeles, CA 90012
- Input collected will help staff finalize an operating plan recommendation for the Metro Board to consider in mid-2023
- Implementation can happen as soon as late 2023 once AMC construction allows trains through the site
- LAX/Metro Transit Center (AMC) will open in late 2024

