Link Union Station (Link US) Project



Construction Network Presentation April 21, 2021



Link Union Station Overview

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The Link to Southern California



Link US Project Benefits

What will Link US Provide?



Metro Regional Rail focus on Network Integration





Los Angeles Union Station Today

Built in 1939 | Largest model hub in Southern California

Link US Funding Partners & Stakeholders



Link US – Two Phases, A and B



Phase A - Funded

Phase	B -	Not F	und	ed

SEGMENT 1 – THROAT AREA	SEGMENT 2 – COMMERCIAL & CENTER ST	SEGMENT 3 – VIADUCT & RUN-THROUGH	SEGMENT 4 – RAIL YARD/CONCOURSE AREA
 Rail signal, communications and track work Utility relocation 	 Property acquisition Utility relocation Street and ATP improvements 	 Viaduct structure over US-101 (full width) and south of US-101 to 1st Street. Two run-through tracks from Union Station Platform 4 to mainline tracks 	 Raising of the rail yard, including new platforms and tracks, new stairs, escalators and elevators, and new bridges over Cesar Chavez Avenue and Vignes Street. Proposed modified expanded

3. Signal and communication

- Proposed modified expanded passageway, including including East and West Plazas
- 3. Add remaining run-through tracks and new lead track in the throat



Link US Funding Plan (Phase A funded)

Funding Source	Amount (\$ in millions)				
State Proposition 1A/High Speed Rail Bonds	\$423.335				
State Transit Intercity Rail Capital Program (TIRCP)	\$337.571				
State Transportation Improvement Program (STIP)	\$60.820				
Measure R	\$51.672				
SCRRA JPA Contribution (Non-Metro)	\$40.000				
Other HSR Funds	\$18.726				
Measure M	\$13.274				
LOSSAN/Amtrak	\$5.000				
Total	\$950.398				

"Our partnership with Metro is key to implementing high-speed rail improvements in Southern California.... The partnership has reached several major milestones over the last year, including completing a Memorandum of Understanding in September 2019 and **the Authority's Board of Directors approving the Link US Funding Plan in April 2020**. This vital step establishes the **Authority's commitment to provide an additional \$423 million in Proposition 1A bookend funds** toward construction of Phase A at an estimated cost of \$950 million." – Page 76 of Revised Draft HSR 2020 Business Plan

Link US Project Phase A

Preliminary Rendered Concept of Two run-through track operation on Platform 4





Source: CHSRA

LINK UNION STATION PHASE A KEY ELEMENTS



- Area 1 Throat (North of the Station)
- Area 2 Station Area & Platform Modifications
- Area 3 US-101 Viaduct Freeway Improvements & Commercial Street ATP
- Area 4 Run-through Tracks West Bank Tie-In & Bridge over Amtrak Lead

Area 1 - William Mead Homes Sound Wall on Retaining Wall



Benefits:

- a. Reduced noise impacts to WMH residents which also addresses request by Council District 1
- b. EIR mitigation measure

WILLIAM MEAD HOMES SOUND/RETAINING WALL LAYOUT

NOISE MITIGATION - SOUND WALL

Area 1 - Looking Southwest from Bolero Lane/Bloom Street



Existing Conditions



Proposed Project - Vegetation (Vines) on Sound Wall and Retaining Wall

Conceptual Rendering

PROPOSED LIMITS OF QUIET ZONE ON THE WEST BANK

Area 1 - Quiet Zone Ready Improvements at N. Main Street Railroad Grade Crossing



PROPOSED SAFETY IMPROVEMENTS AT N. MAIN STREET

Area 1 - Quiet Zone Ready Improvements





Area 2 Station - Project Elements



Area 2 Station – Platform 4 Modifications



Area 2 Station – Platform 4 Modifications



PROPOSED PLATFORM 4 IMPROVEMENTS WITH NEW CANOPY

Area 3 – Run-through Track Structure South of Union Station



Area 3 – US 101 Viaduct and Freeway Modifications



Area 3 – US 101 Viaduct



-d

APPROACH TO FULL LANE CLOSURE FOR CONSTRUCTION OF RUN-THROUGH TRACK BRIDGE

Area 3 – Requires Joint Approval by Caltrans & LADOT

Proposed Closure

- a. Full Closure on Weekends
- b. Maximum Closure Duration: From Friday 10 PM to Monday 5 AM
- c. <u>Up to 5</u> Weekend Closures in NB US-101 and <u>5</u> Weekend Closures in SB US-101
- d. Only 1 direction of US-101 will be closed on a particular weekend
- e. Utilize approved TMP Data Sheet to complete a Major TMP for Caltrans/LADOT Approval

APPROACH TO FULL LANE CLOSURE FOR CONSTRUCTION OF RUN-THROUGH TRACK BRIDGE

Area 3 – Recommended Closure Limits

1. Northbound Closure

I-10 WB from I-5 NB/I-10 WB interchange to Alameda Street

US 101 NB from I-5 NB/SR 60 WB interchange to Alameda Street

- Spread WB I-10 traffic to SB I-5 and SB I-710
- Protect neighborhoods West of US 101

2. Southbound Closure

US 101 SB from Broadway to Mission Street

- Serve SB US 101 trips destined for Downtown
- Protect Little Tokyo



Area 3 – Center Street Bridge



Area 3 – Center Street Bridge

Key Constraints:

- a. Vehicle sight distance
- b. Vertical clearance under bridge
- c. Avoid Red/Purple Line Tunnel below
- d. Maintain traffic during construction

Key Features:

- a. Outrigger bent cap to span tunnel and preserve sight distance
- b. Column and abutment foundations to avoid Red/Purple Line tunnel
- c. Columns located to preserve vehicle sight distance



TYPICAL SECTION

Area 3 – Existing LADWP Power Lines & Poles in Conflict with Project



Area 3 - Third Party Utility Relocations and Service Modifications

LADWP Power

• Undergrounding of existing overhead lines along Commercial and Center Streets into existing and new duct bank

Southern California Gas

• Relocation of impacted 8" gas line along Commercial Street

AT&T

• Removal of existing telecom line along Commercial Street and restoration of service to Amay's Bakery property

Wilcon/Crown Castle, Frontier, and SCE Telecom

 Relocation of impacted telecom lines along Commercial and Center Streets into joint duct bank

LADWP Water

 Removal of existing 8" lines along Commercial Street and construction of new service lines to Amay's Bakery and Metro Division 20 properties from Aliso Street

All third-party utility relocations to be designed and constructed by third party owners ahead of project construction

Area 3 – Proposed Active Transportation Improvements

Note:

Per agreement with City of LA, active transportation is limited to Class IV bike lanes only with bollards and associated restriping (no R/W takes included)

View from Southeast Corner of Commercial/Garey Intersection

Area 4 - BNSF Yard – Project Elements



Link Union Station Phase B Elements

NOT FUNDED for Final Design and Construction



Accommodates the future HSR run-through tracks as part of Phase B

Phase B Construction Phasing

Example Construction Schematic



Phase B Construction Phasing

Passenger Circulation Through Construction

Passenger Circulation Through Construction



- Maintain access to platforms
- Managing crowding and congestion
- Maintain ADA accessibility
- Provide Signage for convenient Wayfinding



LINK US PHASE B- New West Plaza



Passenger & Retail Amenities to support a World Class Rail & Transit Terminal Station

Link US Phase B New Platforms & Passenger Concourse





New Platforms and Passenger Concourse by raising of entire rail yard from the Vignes Bridge up to 15 feet at Los Angeles Union Station

Concept Rendering – subject to change

Phase A - CMGC Project Delivery Approach



The Link US Project will use a CMGC project delivery approach using an integrated project management support services. The CMGC Support Services role is to facilitate the collaboration and partnership between Metro, CMGC and Designer/Engineer to design and construct to budget and schedule.

CMGC Project Delivery

Assemble a Team to Deliver a Successful Project.

- Stakeholders
- Designer
- CMGC Contractor
- CMGC Support Services
- Metro





CMGC Project Delivery – Phase A





Preliminary Program Schedule – Phase A

Subject to Change

LINK US PROGRAM SCHEDULE	2022			2023			2024	2025	2026	2027		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4
	JFM	A M J	JAS	OND	JFM	AMJ	JAS	OND				
Phase A Design:												
EARLY CONSTRUCTION - US-101 BRIDGE & HIGHWAY												
A&E/CMGC VALUE ENGINEERING												
65% US-101 EARLY BRIDGE & HIGHWAY DESIGN												
95% & 100% US-101 EARLY BRIDGE & HWY DESIGN												
PROCUREMENT OF EARLY CONSTRUCTION		95% CN	IGC Fee	Propos	sal🛉	•	Award	CMGC	Early Constru	ction Contrac	t	
EARLY CONSTR. US-101 FOUNDATIONS & HWY.				CMGC S		mits FFP						
MAIN CONSTRUCTION												
35% A&E/CMGC VALUE ENGINEERING												
65% DESIGN												
65% A&E/CMGC VALUE ENGINEERING												
95% & 100% DESIGN												
FIXED PRICE, PROCUREMENT & BOARD APPROVAL				95% CN	5% CMGC Fee Proposal 🔶 🔶		•	Award CMG	C Constructio			
MAIN CONSTRUCTION					CMGC Submits FFP							
										Phase /	A Constructio	n Complete
CM SUPPORT SERVICES (Pre-Construction)												
CM SUPPORT SERVICES (During Construction)												
Phase B Design:												
CMGC SUPPORT SERVICES												
A&E/CMGC VALUE ENGINEERING												
35% DESIGN (65% TRACK)												

CMGC Procurement Overview – Phase A

Dates Subject to Change



Procurement Overview

Vendor/Contract Management Points of Contact for this Procurement:

Fred Origel, Director, V/CM (323) 903-4111 OrigelF@metro.net

Noelle Santos, Sr. Contract Administrator, V/CM (213) 922-3647 <u>Santosn@metro.net</u>

*During the proposal period, only contact the personnel listed above with the exception of DEOD, Ethics, and Metro Pre-Qual Dept.



QUESTIONS?





Concept Rendering – subject to change