

Purple Line Extension, Section 2

Pre-Construction Community Meeting

October 20, 2016



Purple Line Extension Project Alignment



Status of Sections 2 and 3

	Under Construction	Forecasted Schedule	
	Section 1	Section 2	Section 3
Length	3.92 Miles	2.59 Miles	2.59 Miles
New Stations	Wilshire/La Brea Wilshire/Fairfax Wilshire/La Cienega	Wilshire/Rodeo Century City/ Constellation	Westwood/UCLA Westwood/VA Hospital
Pre-Construction Activities	Current - 2016	2016 - 2018	2025 - 2027
Construction	2015 - 2023	2018 - 2026	2027 - 2035
Operations	2024	2026	2035

Section 2 Anticipated Schedule

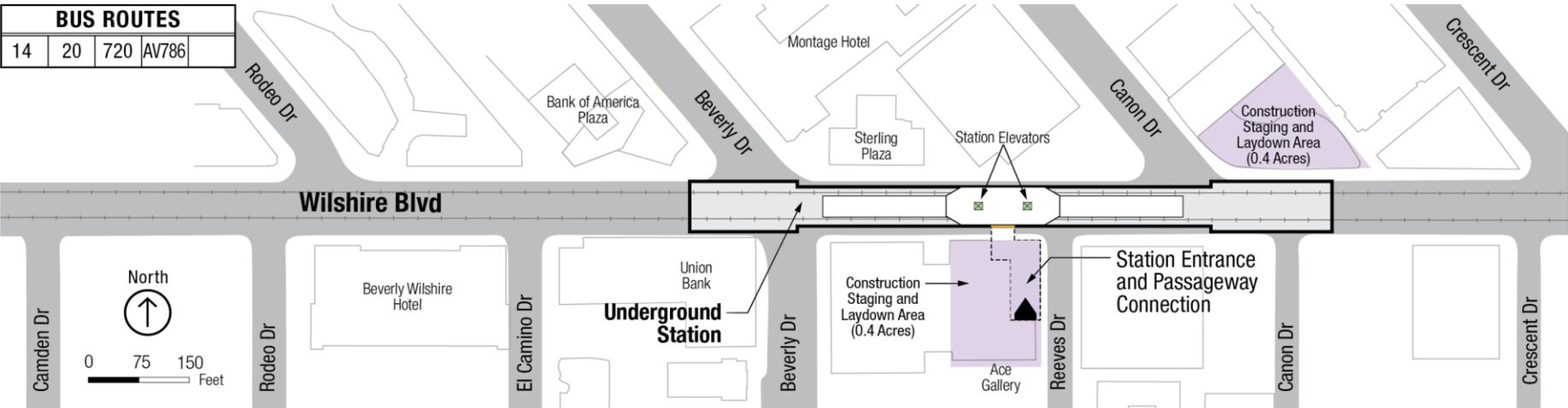
Pre-Construction Activities:	Current - 2018
Supplemental Environmental Impact Statement:	Current - Summer 2017
Full Funding Grant Agreement:	December 2016
Construction:	2018 - 2026
Operations:	2026

Station Overview

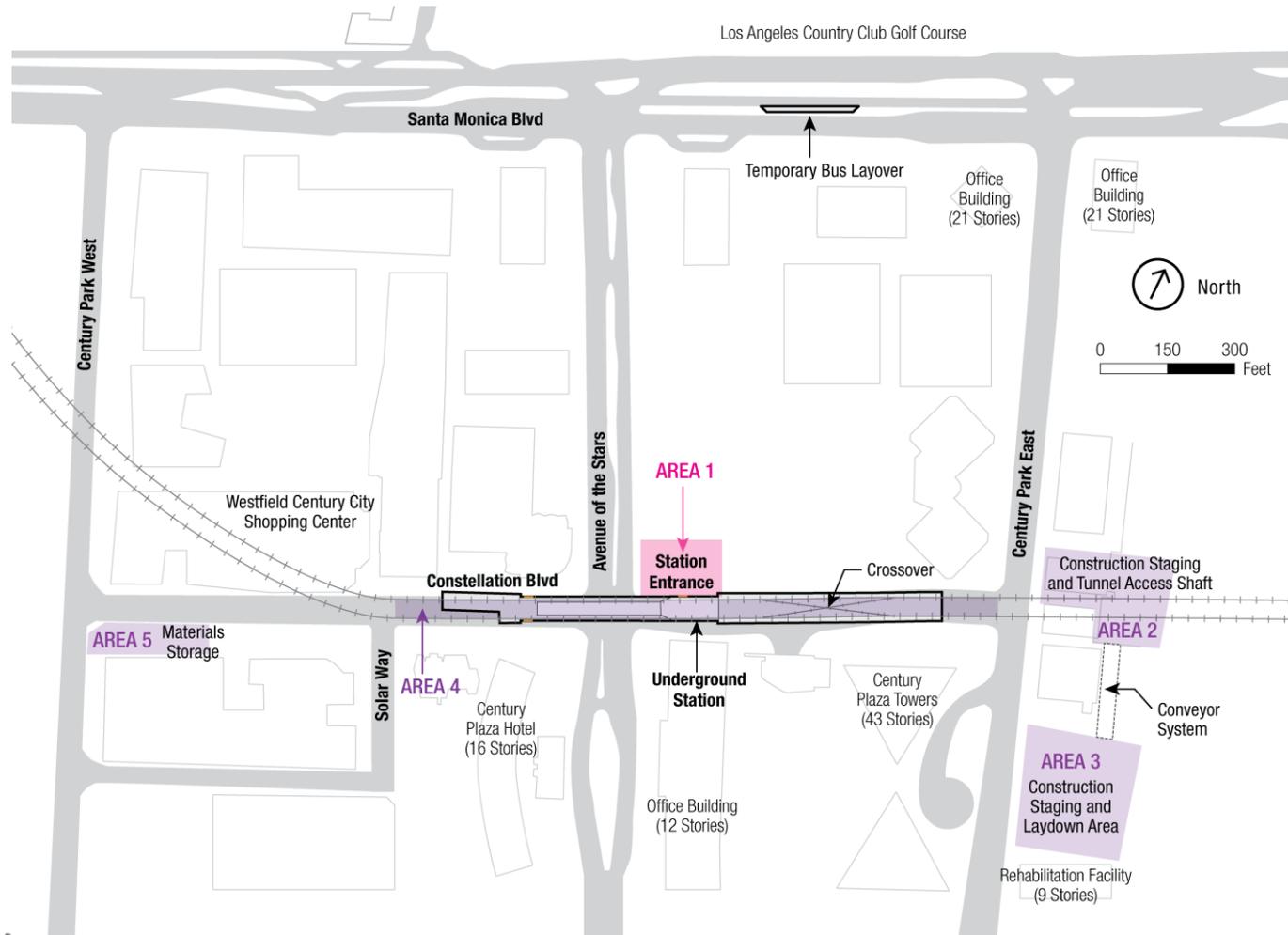
Typical Subway Station Entrance



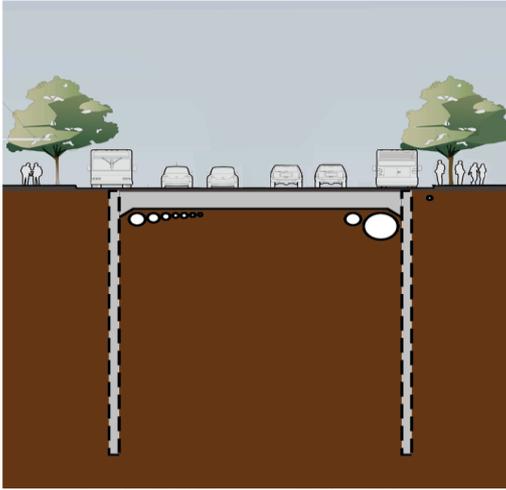
Rodeo Drive Station Box



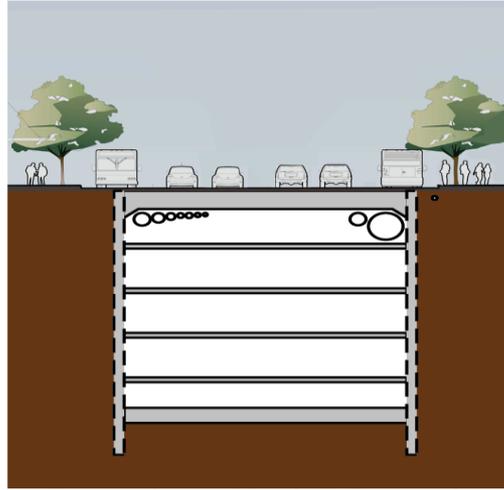
Century City Station Box



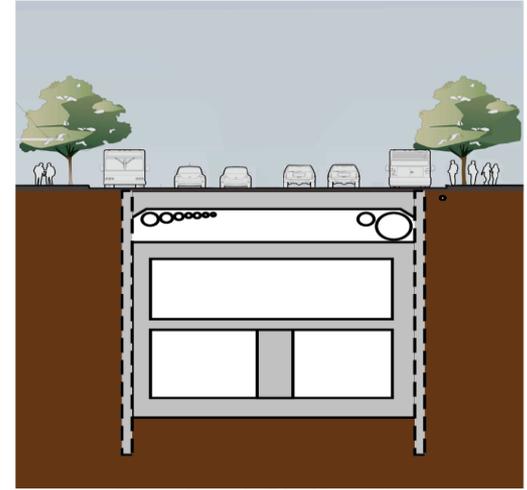
Station Construction Overview



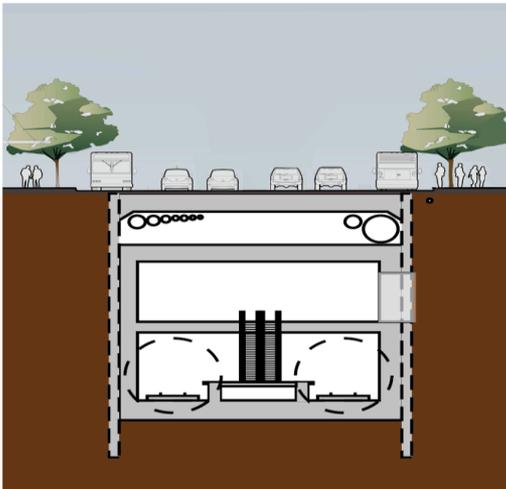
Install Piles and Decking



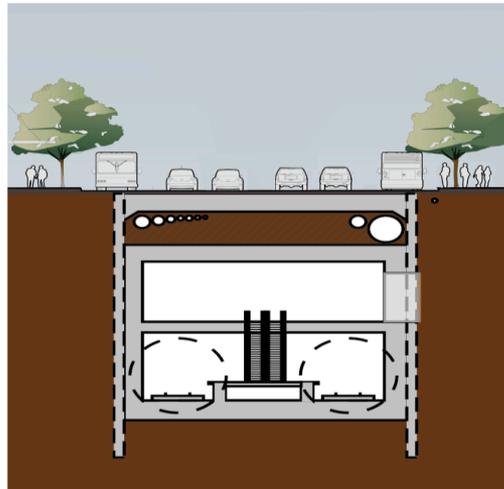
Excavate and Install Supports
(from beneath decking)



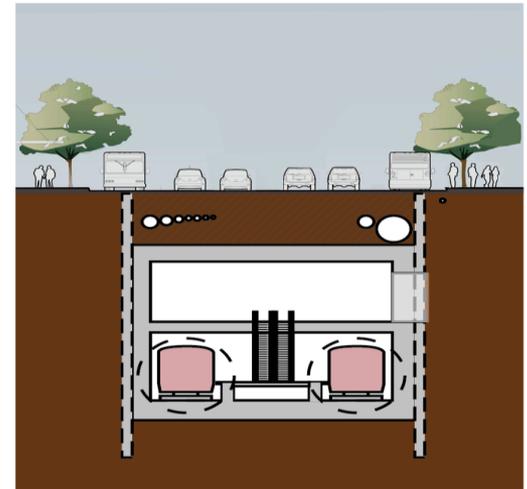
Construct Station Box



Complete Station Box



Backfill Above Structure



Remove Decking and
Restore Street

Noise Mitigation

5 Step Noise Control Plan

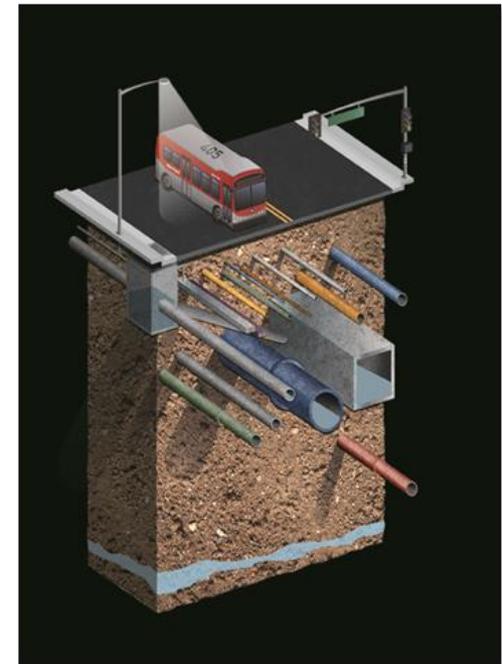
1. Training
2. Scheduling of Noisy Activities
3. Noise Control Measures
4. Monitoring
5. Response

Advance Utility Relocation (AUR)

- Relocation of utility lines (telecom, gas, water, power, sewer) will occur over the next two years
- Day and night-time hours
- Traffic plans will be approved by the cities of Los Angeles and Beverly Hills
- Noisiest activities include saw-cutting and jack-hammering



Recent AUR work at Wilshire/La Cienega



Rendering of AUR work 10

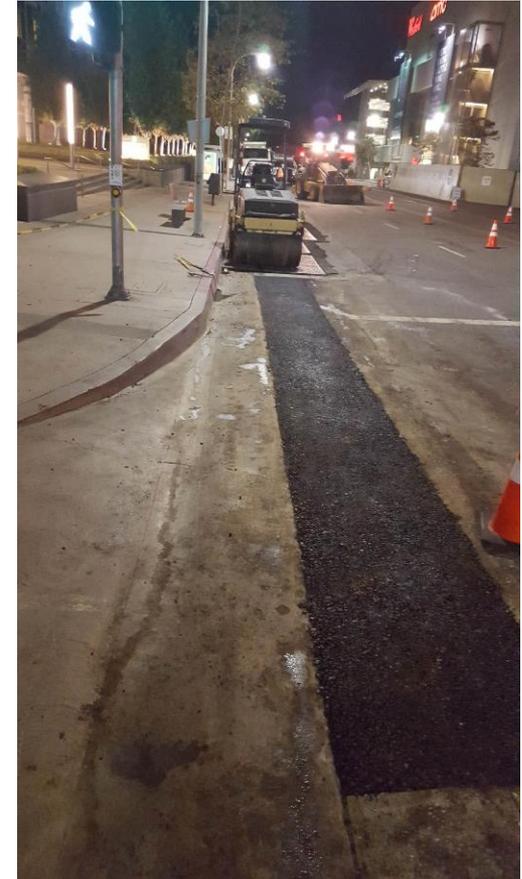
Advance Utility Relocation: Century City

Current Work Activities

- Relocating telecommunication lines
- Includes installation of traffic control devices, excavation and shoring, placement of temporary trench plates, utility construction, and surface restoration
- Intermittent street closures on Constellation Blvd between Avenue of the Stars and Century Park West
 - Coordinating with Westfield Mall and Century Plaza Hotel construction activities and events in the area
- Work is anticipated to last 8 months

Work Hours

- Work began September 2016
- Sunday through Thursday night
- 8pm to 6am



Asphalt paving in Century City

Advance Utility Relocation: Rodeo Drive

Work Activities

- Relocation of Southern California Edison lines
- Anticipated start date of March 2017
- Construction Community Meeting in advance of starting
- Construction notices will provide work hours and details



Recent AUR work at Wilshire/La Cienega



Recent AUR work in Century City

Potholing/Survey Traffic Reconfiguration

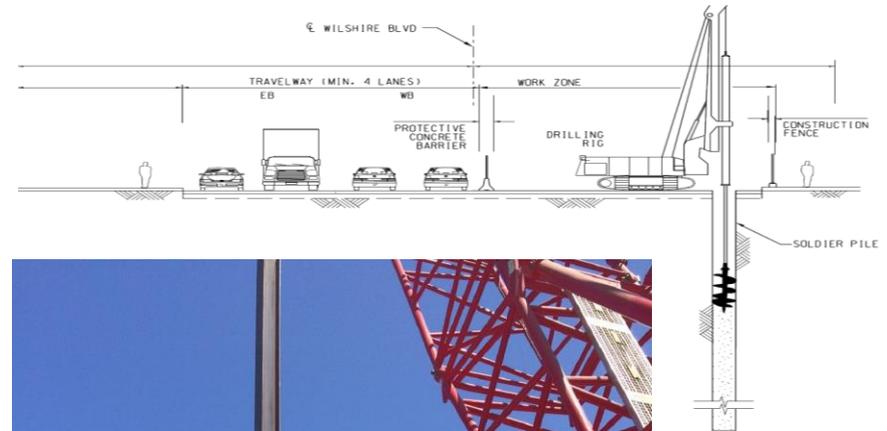
- Confirmation of information shown on City records before major construction begins
- Work hours TBD by Cities of Los Angeles and Beverly Hills
- Temporary lane closures similar to AUR



Existing potholing work at La Cienega

Pile Drilling Installation

- Pile installation includes:
 - Rig to drill holes
 - Crane to lift piles into holes
- All work occurs behind k-rail (concrete barriers)
- Street will be reduced during operation
- Additional weekend closures may be needed to install piles across intersections
- Estimated to start in mid-2018



Pile Installation Traffic Reconfiguration

- Medians and parking removed from work zone
- Buses relocated outside of work zone



Example on Wilshire Blvd

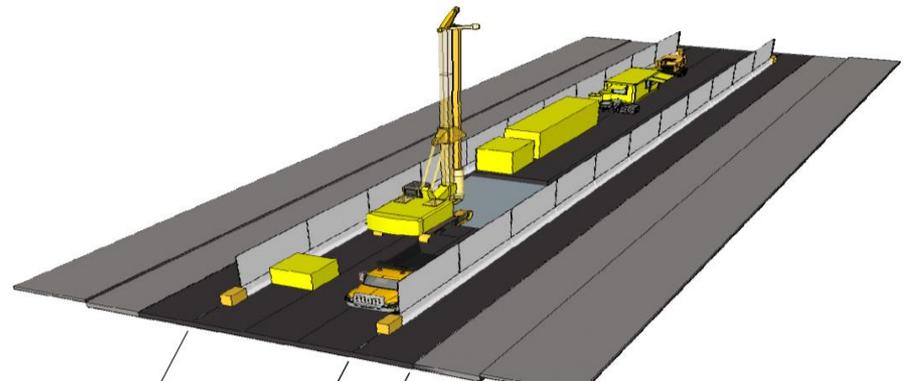
Ground Improvements

Overview

- Purpose is to reinforce and strengthen soil with concrete to support tunneling and cross-passage
- Occur between stations where tunnels connect
- Grouting is an example of a construction process that uses high-pressure air and grout to create a deep soil-concrete block



Example of grouting at Wilshire and Detroit behind k-rail

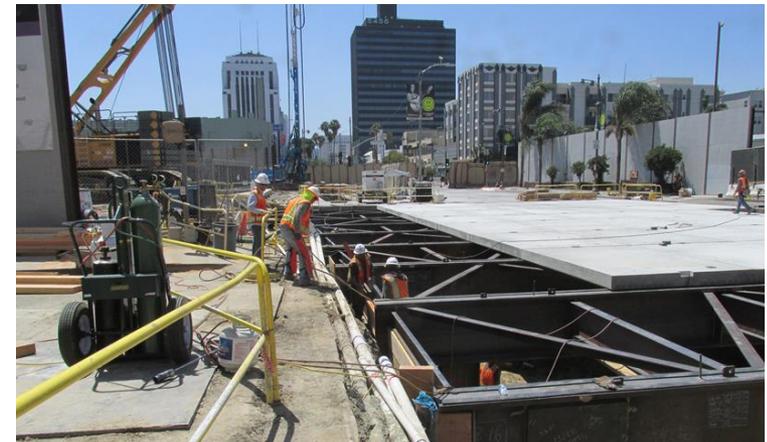


Decking Installation

- Construction of a concrete deck, curb-to-curb
- Sidewalks will be maintained or pedestrian detours created
- Decking will serve as the temporary street surface
- Traffic will travel on the installed deck panels while the station is constructed underground
- Typical station:
 - Approx. 1000 feet long
 - Approx. 70 feet wide
 - Approx. 75 - 90 feet deep
- Metro will work closely with first responders on emergency access and safety
- Additional activities under decking closures: ground improvements, piling, temporary civil improvements

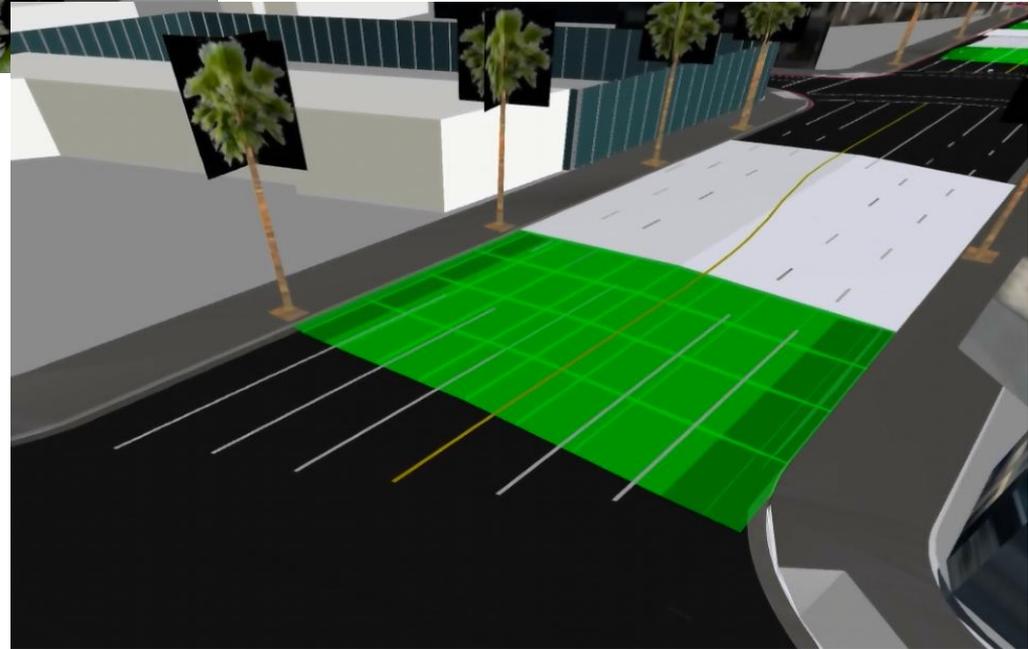


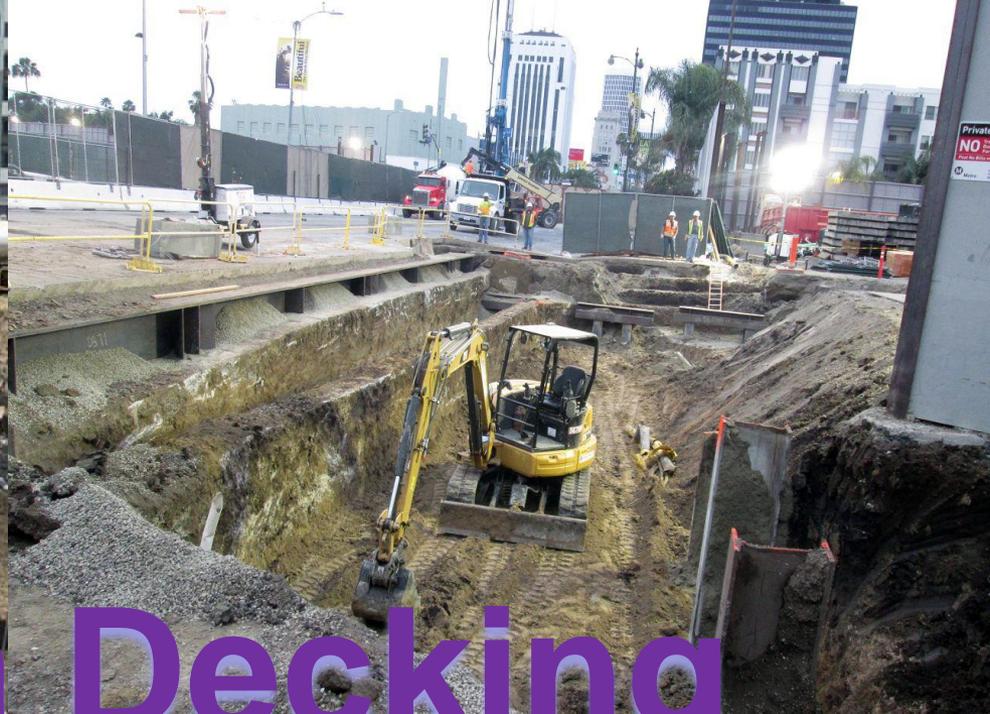
Asphalt removal on Wilshire Blvd near Detroit St



Steel beams welding prior to concrete deck panel installation

Decking Installation Set-Up





La Brea Decking



Station Construction

24/7 underground

- Work primarily occurs underground beneath concrete decking
- Surface activities include:
 - Deliveries
 - Soil removal
 - Concrete pumping
- Material delivery and hauling occurs day/night



Example of underground station construction

Deck Openings

What:

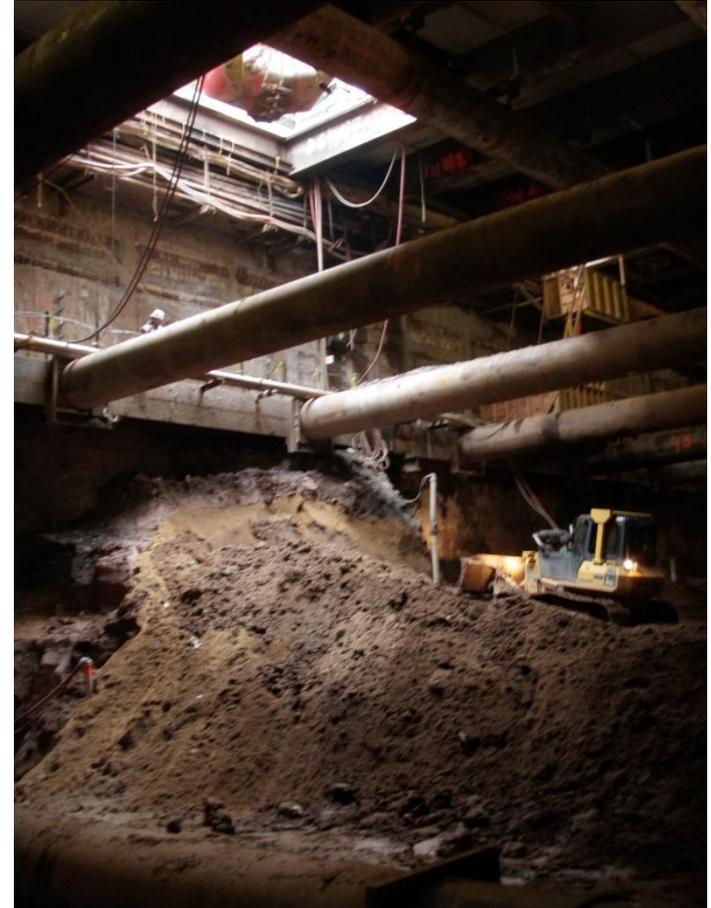
- Openings of the street-deck for the purpose of delivering materials for underground construction
- Done at deck locations that are designed to open and close
- Occur periodically, as needed

When:

- Following decking installation
- Throughout the duration of the project

How:

- Temporary lane closures as approved by Cities of Los Angeles and Beverly Hills



Example of deck opening from underneath the street decking

Tunneling

24/7 underground

Tunnel Boring Machine (TBM)

- Twin Tunnel Boring Machines (TBM)
 - TBM naming and art contest
- Not expected to generate surface noise or vibration
- Moves approximately 50 feet/day



Decking Removal Street Restoration

Decking Removal

- Once station is complete!
- Removal of temporary concrete deck, curb-to-curb
- Sidewalks will be maintained or pedestrian detours created
- Decking will serve as the temporary street surface
- Schedule will mimic decking installation
- Will work closely with first responders on emergency access and safety
- Additional activities under decking closures: jet grouting, piling, temporary civil improvements

Street Restoration

- Once decking is removed, permanent street surface will be completed
- New street paved with new curbs, gutters and sidewalks



Decking will be removed once station is constructed underground.

Pre-Construction Survey Overview and Benefits

- PCS is a process for recording the pre-existing conditions of a property prior to construction starting
- Standard practice for Metro construction projects
- Documents conditions before construction begins for buildings that:
 - Front tunnel alignment
 - Are immediately adjacent to construction staging sites
- Includes written report and photos

Benefits

- Copy provided to property owner
- No cost to property owner for survey or report
- Documents existing interior and exterior building conditions
- Used by all parties in the event of a damage claim

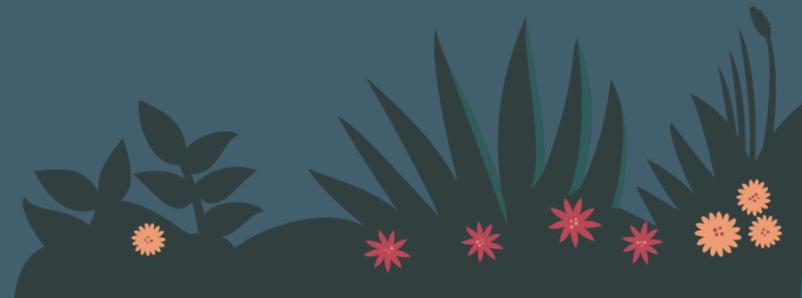


Property Acquisition

- Required for staging, construction and operations
- Governed by State and Federal law for all public agencies
- Various methods of acquisition
 - Permanent property need
 - Temporary construction staging
 - Subsurface (below ground) easements
- Fact Sheet available
- List of potential properties in FEIS/EIR online

Eat Shop Play

- Metro marketing and community engagement campaign to bring focused attention to businesses impacted by construction.
- Goal: make it easy for consumers to eat at local restaurants, shop at local stores and play at local destination.
- Online tools, traditional media and promotional materials available.
- Participation is free for businesses along the alignment.



Measure M Overview

- In June, Metro Board approved placing a “No Sunset” measure on the November ballot
- New ½ cent sales tax starting in July 2017
- Increases to 1-cent in 2039 when current ½ cent Measure R expires
- Continues until voters decide to repeal it
 - Through an initiative or Metro-sponsored measure
- Needs two-thirds approval by voters

Elements of Measure M

- New rail and bus rapid transit projects
- New highway projects
- Enhanced bus and rail service
- Local street, signal, bike/pedestrian improvements
- Affordable fares for seniors, students and persons with disabilities
- Maintenance/replacement of aging system
- Bike and pedestrian connections to transit facilities

Want more information? Visit metro.net/theplan



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