Purple Line Extension
Section 2 Community Meeting
September 28, 2017
Agenda

• Century City/Constellation Station
  – Advance Utility Relocation (AUR)
  – Launch Box
  – Geotech/potholing

• Rodeo Drive Station
  – Advance Utility Relocation (AUR)
  – Geotech/potholing
  – Ace Gallery Demo
## Sections 1, 2 & 3 Status

*Subject to change. The PLE project team is working to deliver the project consistent with Measure M*

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<tr>
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<th>Under Construction</th>
<th>Forecasted Schedule</th>
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Purple Line Extension
Section 2 Alignment

Map showing the alignment of the Purple Line Extension from Century City/Constellation to Wilshire/La Cienega.
Century City/Constellation Station

Rendering shows length of the underground station box on Constellation Bl from Century Park East to Avenue of the Stars.
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<td>Power - Construction</td>
<td>Power - Cable Pulling &amp; Splicing</td>
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Advance Utility Relocation
Advance Utility Relocation
Schedule and Work Hours

**Completed**
DWP (Water): May thru June 2017

**Underway**

Telecommunication: Now through September 2017
  - Work Hours: Sundays Thru Thursdays, 7pm-6am

Southern CA Gas: August 14 through early 2018
  - Work hours: Sundays thru Thursdays, 7pm-6am

AT&T: August through 2018
  - Work hours: Mondays thru Fridays, 6am-6pm; 10pm-6am west of Avenue of the Stars on Constellation Bl.

**Upcoming**

DWP (Power) Cable Pulling/Splicing: October through early 2019
  - Anticipated Work hours: Sundays thru Thursdays, 7pm-6am.

*Dates subject to change*
Advance Utility Relocation
Traffic Control

**Constellation Bl**
- Reduced to one lane each direction between Century Park East and Solar Way intermittently (day/night)
- Turn restrictions onto Avenue of the Stars, Century Park East and building driveways intermittently
- Driveways and valet open at all times

**Avenue of the Stars**
- Reduced to one lane each direction intermittently
- Left turn restrictions onto eastbound Constellation Bl intermittently
Advance Utility Relocation

Holiday Moratorium Exemption

- A holiday moratorium on construction activities in the City of Los Angeles begins Thanksgiving Weekend through New Years.

- Metro is requesting an exemption to allow pre-construction work activities such as design builder geotechnical boring, excavation and installation of conduits and vaults, cable pulling and splicing, and tie-into existing facilities, to continue on Constellation between Century Park East and Avenue of the Stars.

- No work west of Avenue of the Stars during moratorium.
- **Night work:** Sundays thru Thursdays, 7pm to 6am
- **Day work:** Mondays thru Fridays, 6am to 6pm
- **No work:** Thanksgiving weekend

- No work October 2 or 3 to accommodate Westfield Century City Grand Opening
Anticipated Start Date: November 2017

- Confirmation of underground conditions before major construction begins by design builder
- Temporary lane closures similar to advanced utility relocation
- Evening hours preferred:
  - 7pm-6am
- 2-3 days per location
Potholing/Geotechnical Survey

Locations

4 locations
Constellation Blvd.
Pothole Locations
Century City/Constellation Station
Century City/Constellation
Launch Box at Constellation Blvd.

Design & Construction Schedule

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<td>TBM Support</td>
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Anticipated: Spring 2018*

- 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
- Weekend closures may be needed to install piles across intersections

*Dates subject to change
Pile Drilling Installation
Example from Wilshire/La Cienega
Anticipated: Summer 2018*

- 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:
  - Approximately 1000 feet long
  - Approximately 70 feet wide
  - Approximately 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

*Dates subject to change
Decking Installation
Set-Up
Decking example from Wilshire/Fairfax, aerial view of decking progress from roof of the Petersen Automotive Museum
Full Closure of Constellation
East Century Plaza Driveway

- Expected Duration: 9 Months
- Anticipated timing: August 2018
- Access to driveways and alleys maintained

*Dates subject to change*
<table>
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<tr>
<th>CONSTRUCTION PHASING</th>
<th>STREET CLOSURE</th>
<th>CONSTRUCTION ACTIVITY</th>
<th>ANTICIPATED DURATION</th>
<th>WORK HOURS</th>
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<tr>
<td>STAGE 1</td>
<td>NORTH SIDE</td>
<td>LAUNCH BOX PILING + NORTH SIDE &amp; PARTIAL BULKHEADS</td>
<td>20 WORKING DAYS</td>
<td>Nighttime 8PM to 6AM</td>
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<td>Daytime 7AM to 4PM</td>
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<td>*STAGE 1A</td>
<td>NORTH SIDE + DRIVEWAY</td>
<td>LAUNCH BOX PILING - NORTH SIDE + DRIVEWAY</td>
<td>3 WEEKENDS</td>
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<td>SOUTH SIDE</td>
<td>LAUNCH BOX PILING - SOUTH SIDE &amp; PARTIAL BULKHEADS</td>
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<td>STAGE 3</td>
<td>FULL STREET</td>
<td>LAUNCH BOX DECKING</td>
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<td>SOUTH SIDE</td>
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<td>STAGE 5</td>
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<td>Daytime 7AM to 4PM</td>
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Launch Box Piling
Stage 1 & 1A
Launch Box Piling and Excavation
Stage 2 & 4
Launch Box Decking
Stage 3

CONSTELLATION BOULEVARD

CENTURY PARK EAST

OF THE STARS

AVENUE

Private Driveway

M Metro

59-HOUR FULL STREET CLOSURE
FRIDAY 8PM TO MONDAY 6AM
S Signalized Intersection

STAGE 3
Launch TBM! – Full Closure
Stage 5
Launch Box TBM Support

Stage 6
Truck Haul Route
Monitoring and Coordination

• COLA/Metro/ TPOG will monitor traffic
• Turn lanes will remain open for use (except for full street closure on weekends)
• Access to driveways & entrances will be maintained (except for weekends)
• Access for Emergency Vehicles & First Responders will be maintained
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
Century Tower Property

- Remove Sidewalk/Replace with Temporary Sidewalk
- Remove Street Furniture
- Remove Street Lighting/Replace with Temporary Lighting
- Protect Landscaping

- Remove Trees/Replant Trees
- Protect Signage
- Protect Landscaping
Wilshire/Rodeo Station
Wilshire/Rodeo Station

Rendering shows length of the underground station box on Wilshire Bl from Canon Dr to Beverly Dr Dr
Southern California Edison
Red=power
Start date – September 5, 2017

- No conflict with Santa Monica Blvd project

44 working days

- **Stage 1**: 5 days
  - COMPLETE
- **Stage 2**: 15 days
  - Sunday, 10am-6pm; Monday – Wednesday, 9am-4pm
- **Stage 3**: 6 days
  - Sun 10am-6pm, Mon-Wed, 9am-4pm
- **Stage 4**: 7 days
  - Sunday, 10am-6pm; Monday-Wednesday, 9am-4pm
- **Stage 5/5a**: 11 days
  - Monday-Friday, 9am-4pm
SCE Advanced Utility Relocation
Monitoring and Adjustment

• City of Beverly Hills/Metro traffic engineers will monitor traffic
• Local Access Only signs
• Signal timing adjustments
• Crosswalk timing adjustments
• Traffic Control Officers (TCO)
• Beverly Hills Police Department support
• Any other adjustments as needed to work plans, traffic plans or detours
• Monitor bus stops and zones
SCE Advance Utility Relocation
Wayfinding Signage Locations
SCE Advanced Utility Relocation
Wayfinding Signage Examples

![Wayfinding Signage Examples](image-url)
Advanced Utility Relocation
Wilshire/Rodeo Station

*City of Beverly Hills Council approval required, subject to change

- SCE Phase 1: September 5, 2017
- SCE Phase 2: November 2017
  - Same traffic plans as SCE Phase 1
- SCG: February 2018
- AT&T: February 2018

Rendering of AUR work
SCG and AT&T Utility Relocation
Combined Traffic Control

Starting February 2018

- SCG and AT&T will work simultaneously within work zone
  - Will reduce overall duration of work
  - Work is scheduled from February through May 2018
- Stage 1-3 will look similar to SCE
  - Work is set up in morning and taken down each night
  - Will accommodate awards season
- Stage 4 -8 will take place behind K-rail
  - K-rail to remain 24/7 and work will take place behind it during approved working hours
  - Set up will take place after awards season (March)
SCG and AT&T Utility Relocation
Stage 1: 16 days. Sunday: 10am-6pm, Monday-Wednesday: 9am-4pm
SCG and AT&T, Stage 2: 20 days
Sun 10am-6pm, Mon-Wed 9am-4pm
SCG and AT&T, Stage 2A: 3 days
Sun 10am-6pm, Mon-Wed 9am-4pm
SCG and AT&T, Stage 3: 9 days
Sun 10am-6pm, Mon-Wed 9am-4pm
SCG and AT&T, Phase 4-7
Traffic Proposal

- Medians and parking removed from work zone
- Buses relocated outside of work zone
- Wilshire Bl two lanes each direction from west of Beverly Bl to east of Cannon Dr
SCG and AT&T
Stage 4: 34 days, 7am-7pm

K-Rail 24/7

Traffic Control for Stage 4 Construction
SCG and AT&T
Stage 5: 5 days, 7am-7pm

K-Rail 24/7

LEGEND:
- CLOSED LANES OF TRAVEL
- PROPOSED WORK AREAS
- AT&T DUCT BANK
- SCG GAS MAIN
- SIGNALIZED INTERSECTION

TRAFFIC CONTROL FOR STAGE 5 CONSTRUCTION
SCG and AT&T
Stage 6: 12 days, 7am-7pm

K-Rail 24/7
SCG and AT&T
Stage 7: 6 days, 7am-7pm

K-Rail 24/7

FLAGGERS WILL BE ASSIGNED TO KEEP ALLEY OPEN AT ALL TIMES.

LEGEND:
- CLOSED LANES OF TRAVEL
- PROPOSED WORK AREAS
- AT&T DUCT BANK
- SCG GAS MAIN

TRAFFIC CONTROL FOR STAGE 7 CONSTRUCTION
SCG and AT&T
Stage 8: 6 days, 7am-7pm

K-Rail 24/7
## Wilshire/Rodeo Station Schedule

*As of September 2017, subject to change*

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Traffic Survey
Scope of Work

- Traffic counts are obtained by setting up video cameras at each intersection
  - 2 – 4 cameras per intersection
  - 2 days setup/ 1 day recording / 1 day removal = 4 days, per location
  - All survey locations completed within the same work week
  - No impact to traffic
  - All video cameras will be mounted on poles outside of the public right of way
- Field Visits will consist of 1 or 2 person crews writing down the existing number of lanes, turn lanes, signal configurations, and photographs of intersections.
Traffic Survey
Examples of Recording Equipment
Traffic Survey

Locations

- Santa Monica Bl & Beverly Bl
- Rodeo Dr & Wilshire Bl
- El Camino Dr & Wilshire Dr
- Robertson Bl & Burton Wy
- Robertson Bl. & Wilshire Bl
- Wilshire Bl from Rodeo Dr to Crescent Dr
- Santa Monica Bl, north of Wilshire Bl

Note:
Red dot • = intersection requires field visit and traffic counts
Green dot • = intersection requires traffic counts only
Orange line = roadway segment requires field visit and traffic counts
Blue line = roadway segment requires traffic counts
Geotechnical Site Investigation

Purpose of Investigation

• Gather additional soil information to validate existing data and characterize subsurface conditions for the design and construction of stations, tunnels, and cross passages
  • Cross passages connect the two tunnels and house mechanical and electrical equipment along the alignment

• Install groundwater monitoring wells and gas probes to be used for monitoring prior to and during construction
Geotechnical Site Investigation

Scope of Work

- 13 soil boring locations
- Approximately 85 ft to 150 ft deep
- 8 inches or less in diameter
- 1 boring at each cross passage location
- 3 borings at the planned station
- Soil samples will be collected and visually classified in the field
  - Then stored, transported, and tested in the laboratory
- Installation of Ground Water Monitoring Wells/Gas Probes
  - 5 cross passage locations
  - Equipment used to monitor ground water levels and concentration of gas
Geotechnical Site Investigation

Drilling Operations

• Truck-mounted drill rig
• Traffic and noise control will be set-up before drilling and taken down after drilling
• All equipment and debris will be removed from the site daily
• Steel plates will be properly placed over unfinished holes to allow traffic to move smoothly over the boring location

Example of truck-mounted drill rig
Geotechnical Site Investigation
Dust and Noise Mitigation

- Water will be sprayed on augers to mitigate minor dust
- Sources of noise: drill rig engine, hammer during sampling, etc.
- City of Beverly Hills noise limits: Ambient + 5db (at reference distance 50 ft.)
- Noise Mitigation: noise blankets around work area, noise-reducing enclosure/shroud/panel around engine, low-noise equipment

Example of noise mitigation blanket
Geotechnical Site Investigation

Schedule

• Anticipated start October 2017 for 2 months
• 3 to 5 days per boring location
• 2 to 3 hours spent on set-up and breakdown (including traffic control and noise mitigation efforts)

• Proposed work hours*:
  • Nighttime – 8pm – 6am (Commercial)
  • Daytime – 7am – 4pm (Residential)

*Requires City of Beverly Hills Council approval
ALL TURN LANES OPEN FOR USE
Typical Traffic Control for Work Zone in Middle Lanes

ALL TURN LANES OPEN FOR USE
Geotechnical Site Investigation
Monitoring and Coordination

- COBH/Metro/ TPOG will monitor traffic
- No turn restrictions
- Access to driveways & entrances will be maintained
- Access to bus stops & loading zones will be maintained
- Access for Emergency Vehicles & First Responders will be maintained
- Work coordinated with City of Beverly Hills Sanitation
Demolition of 9430 Wilshire Bl
Former Ace Gallery, future Construction Staging Yard
Demolition of 9430 Wilshire Bl
Former Ace Gallery, Future Construction Staging Yard

Site Address: 9430 Wilshire Bl
  • 2-Story Building on the corner of Wilshire Bl and Reeves Dr

Schedule
  • Anticipated Start in November 2017
  • Estimated Duration of Demolition Activities: 5-7 weeks

Traffic Impacts
  • Temporary Lane Closure along Wilshire Bl (approximately 2 weeks)
    • Temporary Turn Restriction on Reeves Dr
  • Sidewalk/Partial Lane Closure along Reeves Dr (duration of demolition)
    • Pedestrian protection to be installed
Demolition of 9430 Wilshire Bl
Former Ace Gallery, Future Construction Staging Yard

Dust Mitigation
• Water used to spray demo area

Noise Mitigation
• Equipment installed with low-noise mufflers and noise blankets on fencing around work area

Protection of the Park
• Fencing/barrier around work area including noise control measures
Next Steps
Wilshire/Rodeo Station

City Council on October 3, 2017
• Approval of Traffic Study
• Approval of Ambient Noise Study

City Council on October 17, 2017
• Approval of geotech/potholing permit
• Approval of SCE Phase 2

Notification process
• Hand delivered, email, website, social media

Continued Outreach and Communication
• Monthly meeting – 2nd Wednesday of each month at City of Beverly Hills City Hall
• “Traffic Alert” in local newspapers
• Construction notices
• Online and social media ads
Metro Business Interruption Fund

Helping local businesses as we build.
Update as of 9/8/17
Financial assistance to small “mom & pop” businesses with **25 or fewer employees** directly impacted by Metro Rail construction along three project areas

- Businesses must be located immediately adjacent to the rail corridor and meet other eligibility requirements
- Grant amount determined by loss of business revenue related to period of construction disruption
- 489 grants awarded with a total grant value of more than $10.5 million awarded to 241 small businesses
BIF Grant Award Update

Purple Line Extension, Section 1

- BIF Grants Awarded: 111
- BIF Grant Amount Awarded: $2,601,295.57
- Number of small businesses awarded: 50
- BIF Business Advisor: Brian Lazo, PCR, 213.739.2999

Purple Line Extension, Section 2

- Outreach activities started in Century City
- BIF Business Advisor: Darrell Smith, PCR, 213.739.2999
Next Community Meeting
Beverly Hills

Updates on La Cienega and Rodeo Stations
October 11, 2017
6:30pm – 8pm

Beverly Hills City Hall
Municipal Gallery
455 N. Rexford Drive
Beverly Hills, CA 90210
Stay in Touch

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