

# Fiscal Year 2020 Program Management Annual Program Evaluation

## **Presentation Overview**

- Purpose and Process
- Capital Program Status
- Capital Program Costs and Schedules
- Adjustments for FY20
- Summary
- Next Steps



## **Purpose**

- Annual evaluation of Metro's capital program
- Reporting to the Board any project budget and schedule changes, and reasons for the changes
- A project management tool bringing greater consistency, transparency, and discipline
- Facilitates financial planning
- Reduces the number of requests to the Board for budget adjustments



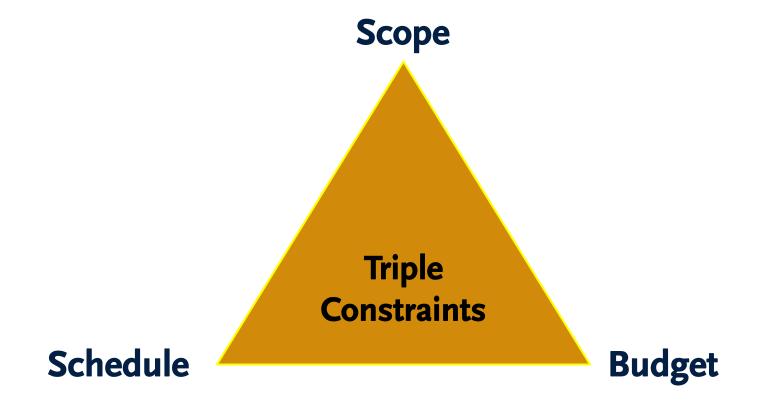
### **Process**

- A review of project costs and schedules
- Update project capital cost estimates to current conditions, including price trends and changes
- Focus on budget to complete current project phase/milestone
- Include APE results in the FY20 Budget review and adoption by the Board



## **Project Management**

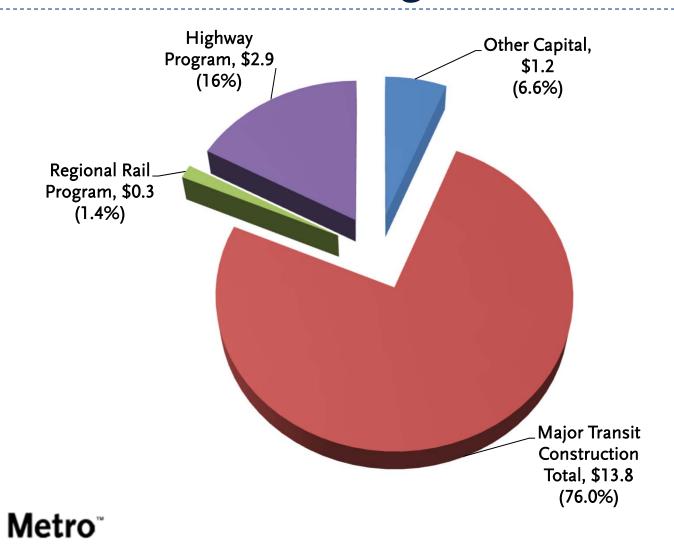
One side of the triangle cannot be changed without affecting the other sides:



## FY20 Scope

- APE focuses on only those capital projects, managed by Program Management, with a total project cost greater than \$5M:
  - Major Transit Construction Projects 9 projects
  - Other Transit Capital Projects 23 projects
  - Regional Rail Projects 5 projects
  - Highway Program 26 projects
- There are 63 projects and approximately \$18.1 billion of approved project budgets included in the FY20 APE review which is an increase of 13.1% from \$16 billion in FY19.
- Project budgets in the APE focus on authorized funding amounts.
- Project funding amounts remain within the annual budget limit approved by the Board.

# FY20 Current Program: \$18.1 B

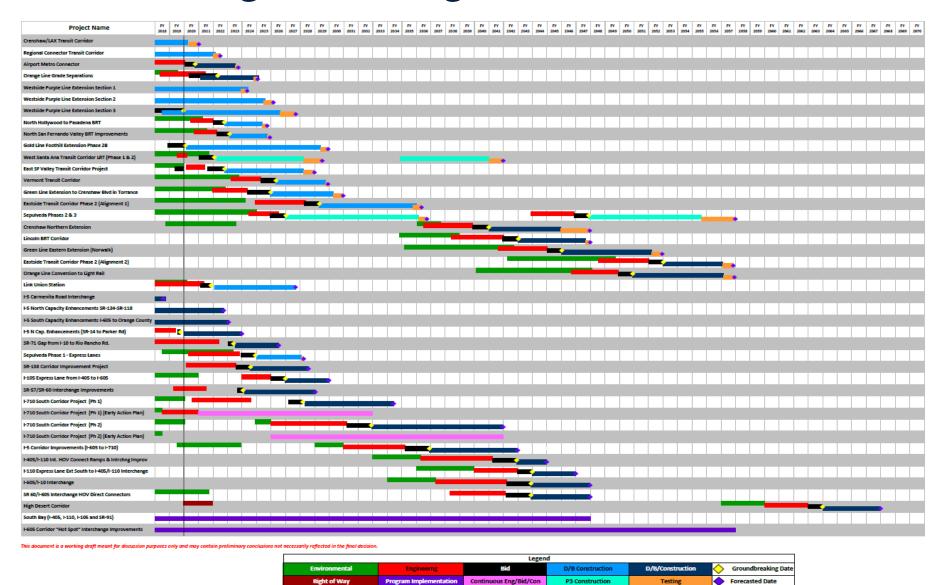


\$ in billions

## **Program Highlights**

- In addition to the projects in APE, Program Management manages/oversees 40+ projects less than \$5M;
   Operations Capital Improvements projects, State of Good Repair projects, and other Transit Capital projects.
- Including projects within the APE, there are over 100 projects being managed by Program Management.
- Overall Program dollars increased 8.9% from \$16.8 billion in FY19 to \$18.3 billion in FY20.
- Metro's capital program will continue to grow with continued implementation of Measure M and Twentyeight by 2028.

## Metro Program Management Master Schedule



## **Program Challenges**

- Deliver multiple large and complex projects on-time within budget
- Collaborate with stakeholders to meet community expectations
- Commitment of efficient third party review/approval by various external jurisdictions
- Encourage competitive and qualified pool of contractors, small businesses, and workforce on Metro projects
- Manage cost risks impacted by shortage of skilled workers, good
   Contractors and utility resources in a growing construction market
- Maintain sufficient resources and staffing needed to manage and support project delivery
- Addressing Contractor claims in a fair and equitable manner
- Achieve continuous improvement in project delivery through innovation and application of best practices and lessons learned

## **Strategic Initiatives**

Continue to implement strategic initiatives to bring improved planning, consistency, transparency, and discipline to project delivery:

- Conduct Annual Program Evaluation of Metro's capital program
- Establish reliable Life-of-Project budgets
- Engage robust management and support services consulting teams to augment technical expertise and resources
- Enhance Risk Management Program
- Enhance Construction Claims Management Program
- Improved Best Practices/Lessons Learned Program
- Implement new Document Control/Change Control system (Unifier)

## **Strategic Initiatives**

- Implement new quality assurance approach
- Conduct readiness reviews before projects are released
- Utilize project delivery method selection process
- Utilize Integrated Project Management Office (IPMO) and defined decision making ladders
- Implement Board delegation of authority as approved in January 2018.

## **Metro Transit Program**



# **Metro Transit Capital Projects**

| Туре                          | Project Budget (in millions) | # of Projects |
|-------------------------------|------------------------------|---------------|
| Major Transit Construction    | \$13,774                     | 9             |
| Other Transit Capital         | \$1,194                      | 23            |
| Misc. Capital                 | \$392                        | 6             |
| Security/Safety               | \$124                        | 2             |
| Rail Facilities               | \$295                        | 5             |
| Wayside Systems               | \$253                        | 3             |
| Bus Facilities                | \$130                        | 7             |
| Total Transit Capital Program | \$14,967                     | 32            |



## **Metro Transit Capital Program Summary**

#### **Projects Completion in FY19:**

- Burbank Airport North Metrolink Station
- Division 3 Master Plan Phases II-IV
- BOS Bus Deferred Maintenance Imp.
- MOL to MRL North Hollywood
- 7<sup>th</sup> Metro and BLOC
- Universal City Pedestrian Bridge



### Project Completion Planned in FY20:

- Metro Silver Line Improvements and Upgrades
- Crenshaw/LAX Project
- New Blue Projects
- Blue Line Rehabilitation/Willowbrook Station

## **Metro Transit Capital Program Summary**

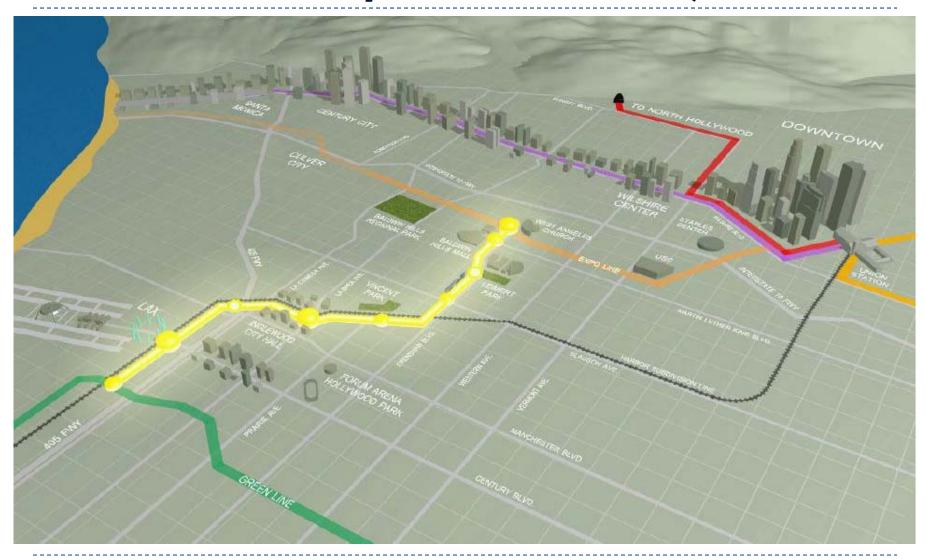
# Projects Transitioned from Planning to Program Management in FY19:

- Orange Line Bus Rapid Transit Improvement Project
- East San Fernando Valley Transit Corridor Project

#### Planned Transition to Program Management in FY20:

- Fuel Storage Tanks FY20-FY22
- Rail Operation Center and Bus Operation Center
- North Hollywood to Pasadena Bus Rapid Transit Project

# **Crenshaw/LAX Transit Project**



## **Crenshaw/LAX Transit Project**

Project Budget: \$2,058.0 M Project Completion: 2020

**Project Complete: 91%** 

#### **Accomplishments:**

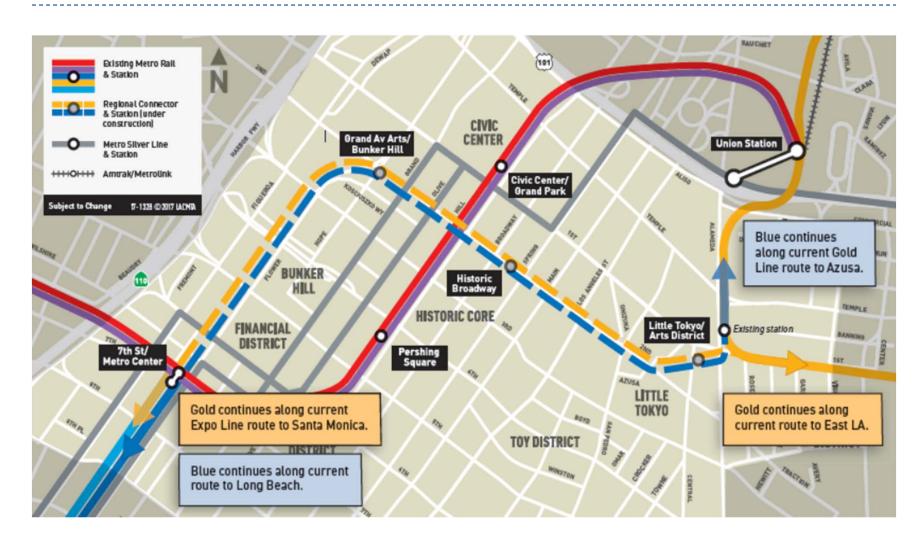
 Work continues on remaining infrastructure at all eight stations with systems procurements, installations and testing activities continuing at various locations.

 Guideway activities including street crossings, remaining trackwork installation and follow-on systems installations continue through out the alignment.

#### Challenges/Risks:

- Limited remaining cost contingency.
- Contractor falling behind schedule with limited options available to mitigate any delays.
- A high number of complex electric and systems tests must be successfully completed.

# **Regional Connector Transit Project**



## **Regional Connector Transit Project**

Project Budget: \$1,795.8 M

**Project Completion: 2022** 

(Excludes finance costs; includes \$40M non-FFGA)

**Project Complete: 55%** 

#### **Accomplishments:**

- Successfully completed the decking of Flower Street. Project will be underground in steady state for next two years from 7th/Metro to Little Tokyo.
- Completed excavation of 2nd Street Cross-over Cavern earlier than planned; balance of excavations at the three stations complete with structural concrete work now underway.
- Finalized all planned design units including the added over-build interface designs at the Historic Broadway Station to accommodate high-rise development over the station entrance area.

#### Challenges/Risks:

- Costs of ~\$25M for three-year extension of Mangrove Yard Temporary Construction Easement represent an increase of \$10M from COLA's January 2017 valuation.
- Scope enhancements for the pedestrian bridge at Grand Av Arts/Bunker Hill Station are estimated to exceed project budget by \$6M stressing available contingency.
- Finalizing the permanent easement from the COLA for the Mangrove Fan Plant are impacting construction with potential impacts to the critical path and budget.
- Escalating costs for the fan plant change order.
- The project is completing an FTA mandated budget and schedule Risk Refresh at the 50% completion milestone. The Board will be informed of any outcomes which are projected to threaten existing project contingency levels.

# Westside Purple Line Extension Project



## **Westside Purple Line Extension Section 1**

Project Budget: \$2,778.9 M Forecast Completion: 2023

Project Complete: 46%

#### **Accomplishments:**

- Commenced Reach 1 tunnel drive from Wilshire/La Brea Station to Wilshire/Western TBM Retrieval Site.
- Completed excavation and temporary TBM support slab at Wilshire/Western TBM Retrieval Site. Began Wilshire/Fairfax Station concrete operations.
- Contract C1078 (Division 20 MOW/NRV Building Location 64) achieved substantial completion.

#### Challenges/Risks:

- Higher cost of ROW acquisition.
- Subcontractor ability to get the required resources to perform the work.
- Wilshire /La Cienega Station dewatering.
- Water quality impacting treatment/maintenance of the water system.
- Potential schedule claim from contractor.

## **Westside Purple Line Extension Section 2**

Project Budget: \$ 2,440.9 M Forecast Completion: 2025

Project Complete: 15%

#### **Accomplishments:**

- Completed third party advanced utility relocations at Wilshire/Rodeo Station.
- Completed TBM mobilization.
- Completed civil work for third party advanced utility relocations at Century City Constellation Station.
- Completed final design for stations and tunnels.
- Completed installation of soldier piles for TBM Launch Box in Century City.

#### Challenges/Risks:

- The City of Beverly Hills City Council approved the Memorandum of Agreement for the C1120 Contract on August 21, 2018, but made execution of the agreement contingent on reaching a settlement agreement related to the NEPA lawsuit.
- Third party utility relocation and resource constraints at private utility companies may cause delay.

## **Westside Purple Line Extension Section 3**

Project Budget: \$3,223.6 M
(Excludes finance costs) Forecast Completion: 2027

#### **Accomplishments:**

- Issued Notice to Proceed for Contract C1151 (Tunnels).
- Real estate certification in progress and beginning property acquisitions.
- Contract C1153 (Wilshire/UCLA Advanced Utility Relocations) substantially completed.
- Metro third party utility relocations continue.
- Contractor begins final design of the tunnels.

#### Challenges/Risks:

- Required construction and staging areas at the VA Hospital may not be available in time to begin construction as currently planned.
- Obtaining lane closures and peak hour exemptions.
- Tariff potentially impacting D/B contractors.
- Receipt of Full Funding Grant Agreement.

## **Gold Line Foothill Extension Phase 2B**



## **Gold Line Foothill Extension Phase 2B**

Project Budget: \$1,406.9 M Forecast Completion: 2029

Project Complete: 3%

#### **Accomplishments:**

Received SB1 Funding in the amount of \$249 million.

• First Design Build contract completed, first of two Utility Relocation contracts. Commenced work on pole line eliminations.

#### Challenges/Risks:

- Address and resolve funding gap to fully fund approved alignment construction to Claremont.
- Constructing while under operations and accommodating future projects.
- Metrolink, SANBAG, City coordination.
- Freight and Metrolink track relocation work.
- Metrolink Coordination: Grade Separation of crossings not-warranted by Metro Grade Crossing Policy.

## **Orange Line Bus Rapid Transit Improvements**



## **Orange Line Bus Rapid Transit Improvements**

Current Authorized Project Budget: \$22.0 M

Forecast Completion: 2024

#### **Accomplishments:**

- Project is exempt from CEQA (July 2018 Board Report).
- Ceremonial ground breaking in October 2018.
- Completed Basis of Design and 15% Design of Sepulveda Grade Separation, and 15% design of gates at eight locations.
- 95% completed Traffic Analysis and Pilot Gate design.

#### Challenges/Risks:

- Relocate Sepulveda parking lot access road through adjacent property to fit additional escalators.
- Progressing of Van Nuys Grade Separation Station Design being coordinated with ESFV environmental process.
- Mitigation of traffic impacts.
- Integration with Sepulveda and ESFV Transit Corridor projects.
- Maintaining existing bus operation during construction.
- City of Los Angeles approvals.
- ROW acquisitions and major utility relocations.
- Future PUC regulations requires approval for gates with bus operations.

## **East San Fernando Valley Transit Corridor**



## **East San Fernando Valley Transit Corridor**

Current Authorized Project Budget: \$21.2 M

Forecast Completion: 2028

#### **Accomplishments:**

- Locally preferred alternative selected in June 2018.
- FEIS/FEIR
  - SHPO consultation on Findings of Effect
  - Grade crossing safety analysis
  - Orange Line Station connection
- Engineering
  - Finalizing advanced conceptual engineering (10% design)
  - Updating cost estimates
  - Receipt of preliminary engineering proposals

#### Challenges/Risks:

- A shared right-of-way with Metrolink.
- Design for connection with Metro Orange Line needs to be finalized.

## **Airport Metro Connector**



## **Airport Metro Connector**

Current Authorized Project Budget: \$151.1 M

Forecast Completion: 2024

#### **Accomplishments:**

- Engineering completed 60% design and Shoo-fly design.
- Los Angeles World Airport (LAWA) Interface and coordination continues.
- Commence Ardent and Honeywell Monitoring.
- Complete Phase II Environmental Site Assessment.
- Finalize agreement with So. Cal. Gas.
- Completed Utility Relocation design and potholing for Gas Lines transmission with So. Cal.
   Gas.
- Advertise for professional services contract for construction support services.
- Real Estate has commenced acquisition of Hertz property and is anticipating finalized sale and ownership by end of FY19.

#### Challenges/Risks:

- Real Estate relocation, advance utility relocation, relocation of clean energy facility, schedule integration with LAWA's Automated People Mover project and construction of Shoofly.
- Constructing project under full Metro operations of the Crenshaw and Green Lines.
- Coordination of the Crenshaw Line Opening and LAWA LAMP interface and contractors.

## Patsaouras Plaza Busway Station

Project Budget: \$39.8 M Project Completion: 2020

**Project Complete: 67%** 

#### Challenges/Risks:

Numerous Third party delays.

- The initial work stoppage and limited access to construction site since partially resuming work have led team to forecast a completion date of May 2020, assuming that construction resumes in April 2019.
- Project needs an LOP budget increase to settle delay claims due to the work stoppage that resulted from the paleontological and archeological discoveries.
- FTA and SHPO approvals to resume construction are imminent.



# Metro Blue Line Signal Rehabilitation Project

Project Budget: \$118.9 M Project Completion: 2021

Project Complete: 40%

#### **Accomplishments:**

- Construction In Progress MBL Resignalling contract (Mass Electric).
- In Design Develop scope of work and design package for Firestone Corrosion repair.

#### Challenges/Risks:

- This is one of several projects to be completed during the planned eight-month shut down of the Metro Blue Line that begins January 2019.
- Coordination between the three projects during shutdown of the Metro Blue Line.



New train control



Project adds 4 Crossovers

## Willowbrook/Rosa Parks Station Project

Project Budget: \$109.4 M Project Completion: 2020

#### Accomplishments:

- Completed relocation of utilities and improvements to the Non-Revenue rail crossing.
- Construction of the Customer Service building and Bike Hub is underway.
- Demolition of Blue Line platform and Mezzanine has started with the New Blue shutdown.



#### Challenges/Risks:

- Cost estimate of Park and Ride lot improvements up from \$7M to 8M, but in line with remaining contingency.
- Coordination between the projects during shutdown of the Metro Blue Line.

## **Emergency Security Operations Center**

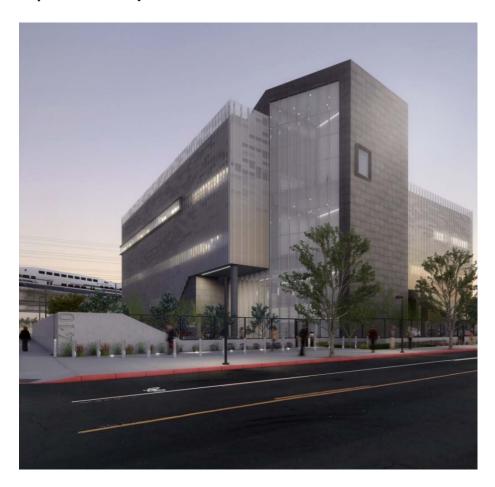
Project Budget: \$ 112.7 M Project Completion: Phase 1 in 2021

#### Accomplishments:

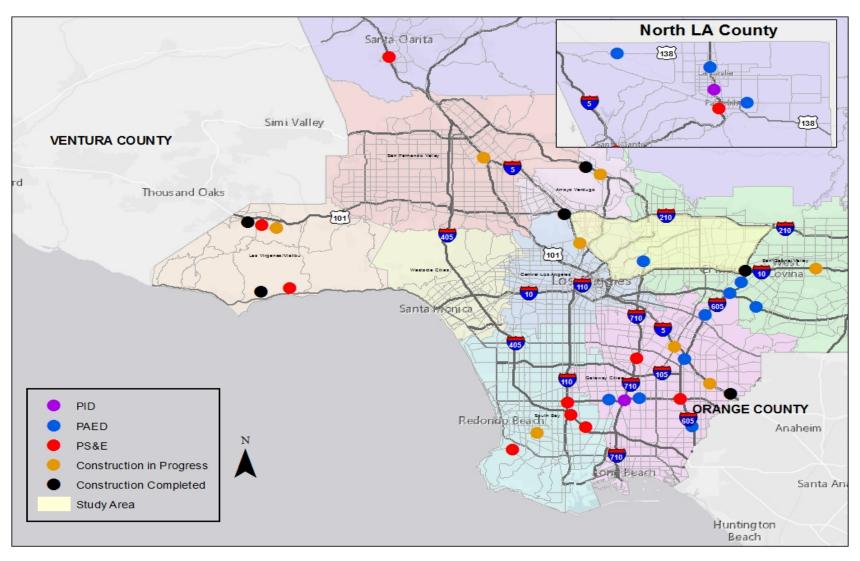
 Issued the revised RFQ/RFP package in October 2018.

#### Challenges/Risks:

- Competitive market may cause cost proposals to be higher than estimated which will widen the funding shortfall.
- State funding of \$112.7 million has to be used by March 2021.



# **Highway Program**





# Highway Program Status Summary (Measure R and M Funded)

| # | Project  | Current Phase  | Estimated Cost<br>through Current<br>Phase (\$mil) | Current Phase<br>Completion |
|---|--|--|--|-----------------------------|
| 1 | I-5 South Valley View Interchange                                | Construction   | \$631.1  | 2022                        |
| 2 | I-5 South - San Antonio, Imperial Hwy and Orr Day                | Construction   | \$323.3  | 2020                        |
| 3 | I-5 South – Florence Ave Interchange                             | Construction   | \$211.7  | 2020                        |
| 4 | I-5 North – North of Buena Vista to South of Magnolia Blvd       | Construction   | \$399.4  | 2022                        |
| 5 | I-5 North - Magnolia Blvd to SR 134                              | Construction   | \$165.9  | 2020                        |
| 6 | I-5 North HOV Project SR 14 to Parker Road                       | Plans, Specs, and<br>Estimate                          | \$51.4   | 2019                        |
| 7 | I-605 Corridor Hot Spots – I-605/I-5 Interchange<br>Improvements | Project Approval/<br>Environmental<br>Documents (PAED) | \$30.3   | 2021                        |
| 8 | I-605 Corridor Hot Spots – I-605/SR 60 Interchange Improvements  | PAED   | \$41.2   | 2021                        |
| 9 | Westbound SR-91 Shoemaker to Alondra Improvements                | PAED   | \$9.3  | 2019                        |

# Highway Program Status Summary (Measure R and M Funded)

|     | #  | Project  | Current Phase | Estimated Cost<br>through Current<br>Phase (\$mil) | Current Phase<br>Completion |
|-----|----|--|---------------|--|-----------------------------|
|     | 10 | I-605 Corridor Hot Spots – I-605 Beverly Interchange Improvements  | PAED & PS&E   | \$4.2  | 2020                        |
|     | 11 | I-605 from SR-91 to South Street Improvements  | PAED & PS&E   | \$4.4  | 2019                        |
| New | 12 | I-605/Valley Boulevard Interchange Improvements  | PAED & PS&E   | \$2.1  | 2020                        |
| New | 13 | SR-60/7th Avenue Interchange Improvements  | PAED & PS&E   | \$2.0  | 2020                        |
| New | 14 | EB SR-91 Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements  | PAED & PS&E   | \$7.4  | 2020                        |
|     | 15 | Interstate 405 Crenshaw Blvd On and Off Ramp Improvements  | PAED & PS&E   | \$24.4   | 2020                        |
| New | 16 | I-405 Auxiliary Lanes – I-105 to Artesia Blvd  | PAED & PS&E   | \$4.1  | 2020                        |
|     | 17 | I-710 (South) Corridor Improvement Projects  | PAED & PS&E   | \$91.0   | 2019                        |
|     | 18 | I-710 (South) Early Action Projects Soundwalls (Bell Gardens, Commerce, Compton, East Los Angeles, Long Beach) | PS&E & ROW    | \$10.1   | 2019                        |
|     | 19 | SR-710 (North) Corridor EIR/EIS  | PAED          | \$47.1   | 2019                        |

# Highway Program Status Summary (Measure R and M Funded)

|     | #  | Project                                      | Current Phase                               | Estimated Cost<br>through Current<br>Phase (\$mil) | Current Phase<br>Completion |
|-----|----|--|---|--|-----------------------------|
| New | 20 | SR-710 (North) TSM/TDM                       | PS&E/ROW/Construction                       | \$45.0   | TBD                         |
| New | 21 | SR-710 (North) Mobility Improvement Projects | PAED/PS&E/Construction                      | \$515.0  | TBD                         |
|     | 22 | Soundwall Package 10                         | PS&E/ROW                                    | \$11.8   | 2020                        |
|     | 23 | Soundwall Package 11                         | Construction                                | \$89.2   | 2021                        |
|     |    |  | Subtotal Measure R & M<br>Highway Projects: | \$2,721.4 M  |                             |

# Highway Program Status Summary (Non-Measure R and M Funded)

| #  | Project   | Current Phase                                      | Estimated Cost<br>through Current<br>Phase (\$mill) | Current Phase<br>Completion |
|----|---|--|---|-----------------------------|
| 24 | SR-57/SR-60 Interchange Improvements (Eastbound and Westbound flyover off-ramp to Grand Ave, Eastbound on-ramp SR-60) | PS&E & ROW   | \$74.0  | 2021                        |
| 25 | SR 71: Interstate 10 to Mission Blvd (North)  | PS&E & ROW   | \$60.9  | 2022                        |
| 26 | SR 71: Mission Blvd to SR-60 (South)  | PS&E & ROW   | \$35.2  | 2019                        |
|    |   | Subtotal Non-Measure R &M Funded Highway Projects: | \$170.1   |                             |
|    |   | TOTAL HIGHWAY PROGRAM:                             | \$2,891.5 M   |                             |

| Projects Completed in FY19                     |  |  |
|--|--|--|
| I-5 South – Alondra Blvd Overcrossing          |  |  |
| I-5 South – Shoemaker, Rosecrans, Bloomfield   |  |  |
| I-5 South – Carmenita Interchange              |  |  |
| I-5 North – HOV from SR 118 to SR 170          |  |  |
| I-5 North – HOV SR 170 to North of Buena Vista |  |  |

| Project Completion Planned in FY20     |
|--|
| -5 North – HOV from Magnolia to SR-134 |
| -5 South – Imperial Highway            |

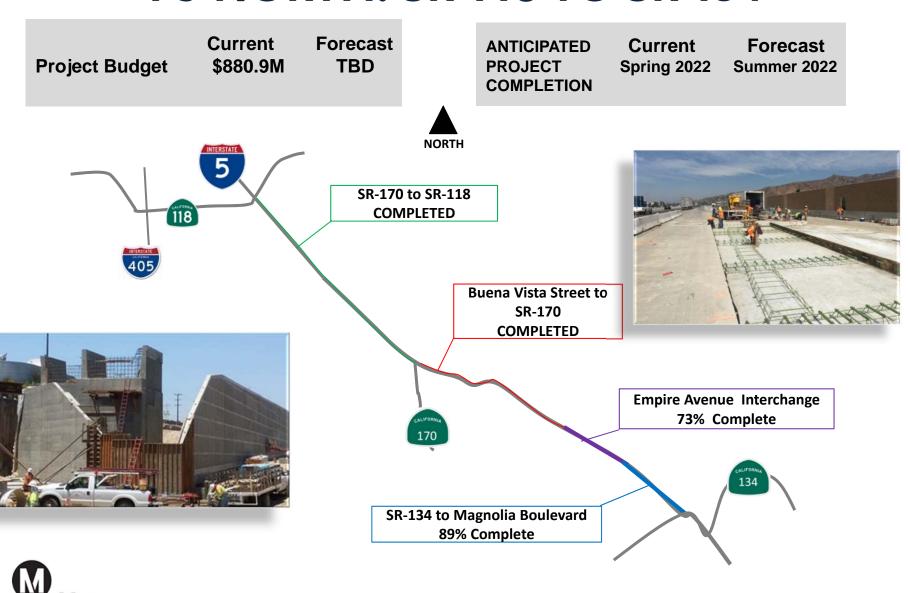
# **I-5 Construction Projects (By Caltrans)**







## I-5 NORTH: SR 118 TO SR 134



## **I-5 SOUTH: ORANGE COUNTY LINE TO I-605**

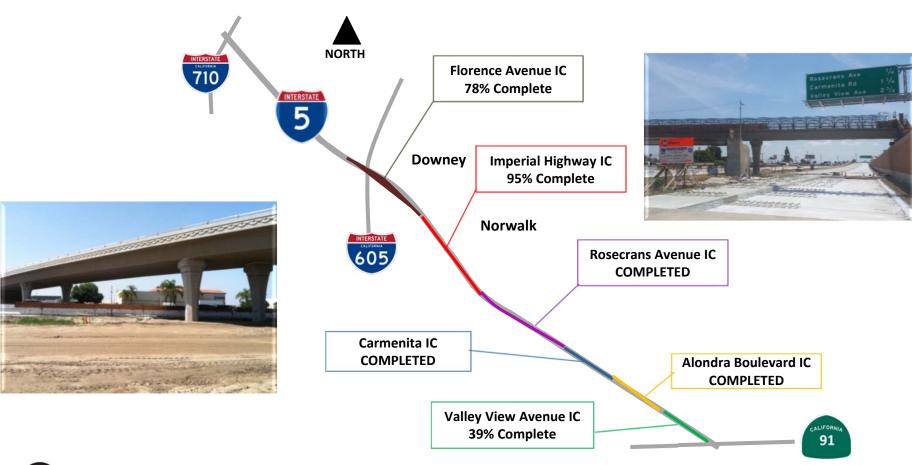
**Project Budget** 

Current \$1.888B Forecast TBD

ANTICIPATED PROJECT COMPLETION

**Current** Summer 2022

Forecast Fall 2022





# I-5 N Capacity Enhancements (SR14 to Parker Road)

PHASE: PS&E

Approved Budget: \$51.4M

Estimated Cost to Complete Project: \$657.4 M

(includes all phases)

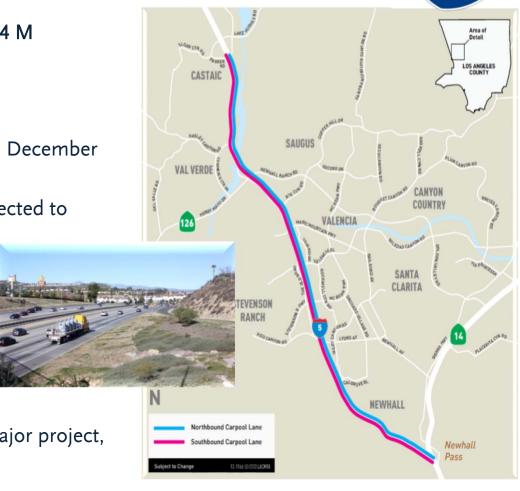
### **Accomplishments:**

 100% of PS&E submitted to Caltrans in December of 2018.

 Preparing for construction phase - projected to start in January, 2020.

### Challenges/Risks:

- Coordination with Caltrans' ongoing pavement rehabilitation project.
- Coordination with projects by others.
- Project now classified by FHWA as a major project, requiring additional coordination and documentation.



# I-605 "Hot Spots"

**PHASE: Various** 

Approved Budget: \$101.0 M

**Estimated Cost to Complete Current Project Phases:** 

\$101.0 M

#### **Accomplishments:**

- Final PAED for the Westbound SR-91 From Shoemaker to Alondra completed in January, 2019.
- Pursuing early action projects parallel to the development of the I-605 corridor environmental document.
- Initiated PAED and PS&E for multiple Early Action Interchange projects now in progress, with estimated completions through 2021.
- Continuing strong collaborative work with local agencies, communities in developing new projects and programs to address congestion in the corridor.

### Challenges/Risks:

 Continue to break down corridor mega projects into smaller, fundable projects with independent utility.



**I-710 South Corridor Improvement Projects** 

PHASE: PAED

Approved Budget: \$91.0M

Estimated Cost to Complete Phase: \$91.0M

Subsequent phases include specific freeway and interchange improvements, arterial and local crossing projects

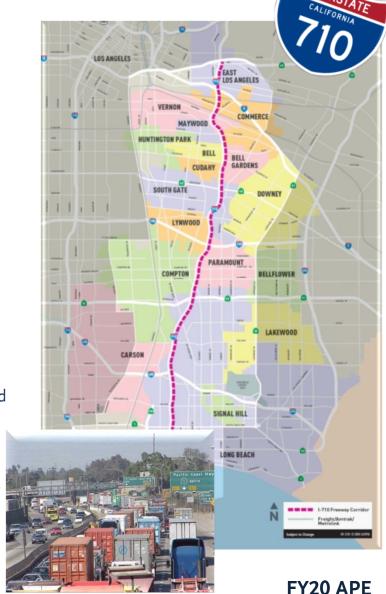
Accomplishments:

The Recirculated DEIR/SDEIS was released in July 2017

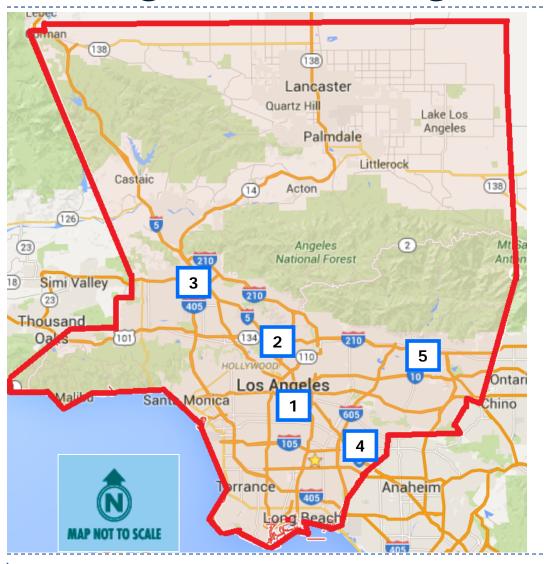
- Metro Board adopted Locally Preferred Alternative in March 2018. In Summer 2019, staff to seek board approval of I-710 South Initial Stage Program for Alternative 5C, currently in development. Environmental phase will be completed by Summer 2019 with Caltrans approval of the document.
- Pursuing early action local projects during the development of the corridor environmental documents
- Strong collaborative work with local agencies, communities, and Metro Board members in addressing community concerns.

#### Challenges/Risks:

- Funding to pursue design and construction of all potential early action projects and the proposed corridor improvements
- Strategy to resolve: Pursuing funding and implementation of early action projects with independent utility.



# Regional Rail Program (LA County)



- 1. LINK Union Station
- Doran Street and Broadway/Brazil Grade Separation Project
- 3. Brighton to Roxford Double Track Project
- 4. Rosecrans/Marquardt
  Grade Separation Project
- Lone Hill to CP White Double Track Project

| Los Angeles County: |  |
|---------------------|--|
|                     |  |

# Regional Rail Program Summary

| # | Project   | Current<br>Phase   | Estimated Costs<br>through Current<br>Phase (\$mil) | Current<br>Phase<br>Completion |
|---|---|--|---|--------------------------------|
| 1 | LINK Union Station Project                                    | Environmental & PE   | \$70.4  | 2019                           |
| 2 | Doran Street and Broadway/<br>Brazil Grade Separation Project | Environmental/PE   | \$8.6   | 2020                           |
| 3 | Brighton to Roxford Double Track Project                      | Environmental/ Final Design  | \$16.7  | 2020                           |
| 4 | Rosecrans/Marquardt Grade<br>Separation Project               | Environmental;<br>Plan, Specification & Estimate<br>Final Design, Real Estate Acq. | \$156.4 (including construction)                    | 2021                           |
| 5 | Lone Hill to White Double Track<br>Project                    | Environmental & Final Design   | \$10.0  | 2020                           |
|   |   | Total Regional Rail Program  | \$262.1   |                                |

## **Project Completed in FY19**

Bob Hope Airport/Hollywood Way Metrolink Station

## **Project Closed in FY19**

Raymer to Bernsen Double Track

# Link Union Station (LINK US)

Estimated Cost to Complete Environmental/PE: \$70.4 M

Current Phase Completion Date: 2019

### **Accomplishments:**

- Phase A of the project is funded with a total of \$950 Million. Received concurrence from funding partners on the project scope for Phase A, including number of run-through tracks and the northern loop track, so that Phase A could be completed within the budget of \$950 Million.
- On January 17 2019, the Draft EIR was released for public review and comment. The DEIR includes both Phases A and B of the project.



## Challenges/Risks:

- Board approval of contract modification to complete the Preliminary Engineering and Environmental Clearance as early as Spring 2019.
- \$423 Million in Prop 1A HSR funds need to be secured as soon as possible to mitigate the risk that funding may become unavailable with the uncertainty of the overall CHSR program.
- Acquisition for the BNSF property by the State/CHSRA.
- Additional environmental documentation may be required if the NEPA process result in a different outcome than the CEQA process.

# Doran Street and Broadway/ Brazil Grade Separation Project

Est. Cost to Complete Environmental/Design: \$8.6 M Current Phase Completion Date: 2020

#### **Accomplishments:**

- Received CPUC approval to modify the one-way interim at-grade improvements at Doran Street crossing to a two-way configuration with quiet zone ready improvements on 1/10/19.
- Received CTC staff recommendation on 12/28/2018, under ATP cycle 4, for \$16.3M of the \$22.2M needed for design and construction of both structures.

### Challenges/Risks:

- Board approval of active transportation elements to the project.
- Obtaining construction funding for the interim improvements at Doran Street and improvements for the grade separation.
- An additional \$500K in third party costs to account for the scope of work modifications.



# **Brighton to Roxford Double Track Project**

Estimated Cost to Complete Environmental/Final Design: \$16.7M

Current Phase Completion Date: 2020

## **Accomplishment:**

- July 2018, Board approved programming \$11,528,416 for professional services for the B2R project to accommodate the changes necessary to accommodate the East San Fernando Valley Transit Corridor (ESFVTC) Project and a new pedestrian underpass for the Burbank Airport North Metrolink Station and other design changes to a 100% design level.
- January 2019 Planning and Programming Committee approved contract mod. to get design team restarted.

## Challenges/Risks:

- Shifting of Metrolink tracks east to accommodate ESFVTC; grade crossings to be designed to accommodate 4 tracks to avoid unnecessary future rework; transforming existing single-main-track alignment with passing sidings into double mainline track segment.
- ESFVTC could no longer accommodate the second track shown on B&R plans resulting in \$3M increase and right-of-way and construction impacts of approximately \$65M.
- If federal funds are applied, NEPA process must be followed adding time to the schedule.



## Rosecrans/Marquardt Grade Separation Project

Current Estimate for Total Project: \$156.4 M

**Current Phase Completion Date: 2021** 

## **Accomplishments:**

- NEPA Clearance (Environmental Assessment approved: 5/02/18, and FONSI approved: 11/07/18);
   Funding agreement with CHSRA executed: 5/01/18; C&M agreement with BNSF executed: 3/22/18;
   Cooperative & Funding agreement with City of SFS executed: 7/13/18.
- All funding sources intact; right-of-way acquisitions and design work are in progress all appraisal for all full take properties have been completed and acquisition efforts are in progress; project plans & specs being progressed towards 90% submittal milestone scheduled for April 24, 2019.

## Challenges/Risks:

- June 2020 deadline for all real estate work, ROW certifications and SCE utility relocation work completed while using TCEP funds under Senate Bill 1.
- Project must be ready to issue bid and award construction by November 2020 to comply with other funding sources.
- Duration of ROW acquisition could substantially delay ROW
   Certification required to bid project; possibility of TCE's part takes to turn into full takes; possibility of SCE's pole relocation work not 100% complete before start of construction contract.



## **Lone Hill to White Double Track**

Estimated Cost to Complete Environmental/Final Design: \$10.0 M

Current Phase Completion Date: 2020

## Accomplishment:

Preliminary Engineering phase completed.

## Challenges/Risks:

 Staff will be seeking Board approval to advance the final design of this project in the Spring in 2019.



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# **FY20 Summary**

## New Projects with Planned Adoption of Life-of-Project Budget:

- Orange Line Bus Rapid Transit Improvement Project
- North Hollywood to Pasadena Bus Rapid Transit Project
- East San Fernando Valley Transit Corridor Project
- West Santa Ana Branch Project
- Division 20 Portal Widening Turnback Facility
- Airport Metro Connector Project
- Metro Eastside Access Improvement Project
- Rail Operations Center and a new Bus Operations Center
- I-5 North HOV Project

# Existing Projects with Potential Adjustments to LOP Budget (separate Board action required):

- Patsaouras Plaza Busway Station
- Metro Gold Line I-210 Barrier Replacement Phase I
- Emergency Security Operations Center
- I-5 North: SR 118 to SR 134

# **Next Steps**

- Project Managers to manage project scope, budget, and schedule for quality, on-time and within budget delivery
- To present project-specific Life-of-Project budgets for Board review and adoption
- Maintain resources and staffing needed to manage and support project delivery
- Seek additional revenue sources needed to fulfill funding commitment required to build and deliver projects, including Twenty-eight by 2028



# **Appendix: Project Listing by Type**

| T      | TRANSIT CAPITAL PROJECTS WITH TOTAL PROJECT COSTS > \$5 M            | ТҮРЕ                               | BUDGET(\$ MIL.) |
|--------|--|------------------------------------|-----------------|
| 1 (    | Crenshaw/LAX Light Rail Transit: Construction                        | Major Construction                 | \$2,058.0       |
| 2 R    | Regional Connector: Construction                                     | Major Construction                 | \$1,795.8       |
| 3 V    | Westside Purple Line Extension Section 1 Project                     | Major Construction                 | \$2,778.9       |
| 4 V    | Westside Purple Line Extension Section 2 Project                     | Major Construction                 | \$2,440.9       |
| 5 V    | Westside Purple Line Extension Section 3 Project                     | Major Construction                 | \$3,223.6       |
| 6 0    | Gold Line Foothill Extension Phase 2B Project                        | Major Construction                 | \$1,406.9       |
| 7 (    | Orange Line Bus Rapid Transit Improvements                           | Major Construction                 | \$22.0          |
| 8 V    | West Santa Ana Branch  | Major Construction                 | \$26.5          |
| 9 E    | East San Fernando Valley   | Major Construction                 | \$21.2          |
|        | •  | Major Transit Construction Total   | \$13,773.8      |
| 10 P   | Patsaouras Bus Plaza Paver Retrofit                                  | Misc. Capital Projects             | \$9.1           |
| 11 0   | Division 20 Portal Widening Turnback Facility                        | Misc. Capital Projects             | \$188.7         |
|        | Division 22 Paint and Body Shop                                      | Misc. Capital Projects             | \$11.0          |
| 13 R   | Rail to Rail Corridor Active Transportation Connector Project        | Misc. Capital Projects             | \$11.4          |
| 4 N    | Metro Eastside Access Improvements Project                           | Misc. Capital Projects             | \$21.0          |
| 5 A    | Airport Metro Connector Project                                      | Misc. Capital Projects             | \$151.1         |
| $\neg$ | · · · · · · · · · · · · · · · · · · ·                                | Misc. Capital Projects Total       | \$392.3         |
| 6 N    | Metro Gold Line I-210 Barrier Replacement Phase I                    | Security/Safety                    | \$11.1          |
| 7 N    | Metro Emergency Security Operations Center                           | Security/Safety                    | \$112.7         |
|        | 5 / / /  | Security/Safety Total              | \$123.8         |
| 8 S    | Southwestern Maintenance Yard  | Rail Facilities Improvements       | \$157.0         |
| 9 S    | Systemwide Elevator Installations (Vertical Systems)                 | Rail Facilities Improvements       | \$8.0           |
| -      | Light Rail Transit Freeway Stations Sound Enclosures                 | Rail Facilities Improvements       | \$8.6           |
| -      | Metro Red Line Civic Center Station Escalator/Elevator Modernization | Rail Facilities Improvements       | \$12.0          |
| -      | Willowbrook/Rosa Parks Station Improvement                           | Rail Facilities Improvements       | \$109.4         |
|        |  | Rail Facilities Improvements Total | \$295.0         |
| 3 N    | Metro Blue Line Pedestrian Safety Enhancement at Grade Crossings     | Wayside Systems                    | \$31.4          |
| _      | Metro Blue Line Track and System Refurbishment                       | Wayside Systems                    | \$102.3         |
| _      | Metro Blue Line Signal System Rehabilitation                         | Wayside Systems                    | \$118.9         |
|        |  | Wayside Systems Total              | \$252.6         |
| 26 B   | Bus Rapid Transit Freeway Station Sound Enclosure                    | Bus Facilities Improvements        | \$5.8           |
| _      | Fuel Storage Tank Program (FY17 - F19)                               | Bus Facilities Improvements        | \$13.2          |
| -      | Metro Silver Line Improvements & Upgrades                            | Bus Facilities Improvements        | \$7.8           |
| -      | Division 1 Improvements  | Bus Facilities Improvements        | \$20.9          |
| -      | Bus Facility Maintenance Improvements & Enhancements Phase II        | Bus Facilities Improvements        | \$20.9          |
| _      | Bus Facility Maintenance Improvements & Enhancements Phase III       | Bus Facilities Improvements        | \$21.7          |
| _      | Patsaouras Plaza Bus Station Construction                            | Bus Facilities Improvements        | \$39.8          |
| - 1'   |  | Bus Facilities Improvements Total  | \$130.0         |
| -      |  | TRANSIT CAPITAL TOTAL              | \$14,967        |

# **Appendix: Project Listing by Type**

|    | HIGHWAY  | ТҮРЕ                              | CURRENT ESTIMATE |
|----|--|-----------------------------------|------------------|
|    |  |                                   | (\$ MIL.)        |
| 1  | I-5 South – Valley View Interchange                                      | Measure R Highway Capital Project | \$631.1          |
| 2  | I-5 South – San Antonio, Imperial Hwy and Orr Day                        | Measure R Highway Capital Project | \$323.3          |
| 3  | I-5 South – Florence Ave. Interchange                                    | Measure R Highway Capital Project | \$211.7          |
| 4  | I-5 North – North of Buena Vista to South of Magnolia Blvd               | Measure R Highway Capital Project | \$399.4          |
| 5  | I-5 North - Magnolia Blvd to SR 134                                      | Measure R Highway Capital Project | \$165.9          |
| 6  | I-5 North HOV Project SR 14 to Parker Road                               | Measure R Highway Capital Project | \$51.4           |
| 7  | I-605 Corridor Hot Spots – I-605/I-5 Interchange Improvement             | Measure R Highway Capital Project | \$30.3           |
| 8  | I-605 Corridor Hot Spots – I-605/SR 60 Interchange Improvement           | Measure R Highway Capital Project | \$41.2           |
| 9  | I-605 Corridor Hot Spots - SR-91 Westbound Widening at I-605 Interchange | Measure R Highway Capital Project | \$9.3            |
| 10 | I-605 - Beverly Interchange Improvement Project                          | Measure R Highway Capital Project | \$4.2            |
| 11 | I-605 from SR-91 to South St. Improvements Project                       | Measure R Highway Capital Project | \$4.4            |
| 12 | I-605/Valley Boulevard Interchange Improvements                          | Measure R Highway Capital Project | \$2.1            |
| 13 | SR-60/7th Avenue Interchange Improvements                                | Measure R Highway Capital Project | \$2.0            |
| 14 | EB SR-91 Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements    | Measure R Highway Capital Project | \$7.4            |
| 15 | I-405 Crenshaw Blvd On and Off Ramp Improvements                         | Measure R Highway Capital Project | \$24.4           |
| 16 | I-405 Auxiliary Lanes - Artesia Blvd to I-105                            | Measure R Highway Capital Project | \$4.1            |
| 17 | I-710 (South) Corridor Improvement Projects                              | Measure R Highway Capital Project | \$91.0           |
| 18 | I-710 (South) Early Action Projects - Soundwall Projects (3 locations)   | Measure R Highway Capital Project | \$10.1           |
| 19 | I-710 (North) Corridor EIR/EIS   | Measure R Highway Capital Project | \$47.1           |
| 20 | SR-710 (North) TSM/TDM   | Measure R Highway Capital Project | \$45.0           |
| 21 | SR-710 (North) Mobility Improvement Projects                             | Measure R Highway Capital Project | \$515.0          |
| 22 | Soundwall Package 10   | Measure R Highway Capital Project | \$11.8           |
| 23 | Soundwall Package 11   | Measure R Highway Capital Project | \$89.2           |
|    |  | Measure R Highway Total           | \$2,721.4        |
| 24 | SR 57 and SR 60 Mixed Flow Interchange                                   | Other Highway Projects            | \$74.0           |
| 25 | SR 71: Interstate 10 to Mission Blvd                                     | Other Highway Projects            | \$60.9           |
| 26 | SR 71: Mission Blvd to Rio Rancho Road                                   | Other Highway Projects            | \$35.2           |
|    |  | Other Highway Total               | \$170.1          |
|    |  | HIGHWAY PROGRAM TOTAL             | \$2,891.5        |
|    |  |                                   |                  |
|    | REGIONAL RAIL  | ТҮРЕ                              | CURRENT ESTIMATE |
|    |  |                                   | (\$ MIL.)        |
| 1  | LINK Union Station Project   | Regional Rail                     | \$70.4           |
| 2  | Doran Street and Broadway/Brazil Safety and Access Project               | Regional Rail                     | \$8.6            |
| 3  | Brighton to Roxford Double Track Project                                 | Regional Rail                     | \$16.7           |
| 4  | Rosecrans/Marquardt Grade Separation Project                             | Regional Rail                     | \$156.4          |
| 5  | Lone Hill to White Double Track Project                                  | Regional Rail                     | \$10.0           |
|    |  | REGIONAL RAIL PROGRAM TOTAL       | \$262.1          |
|    |  | Total Program:                    | \$18,121         |