

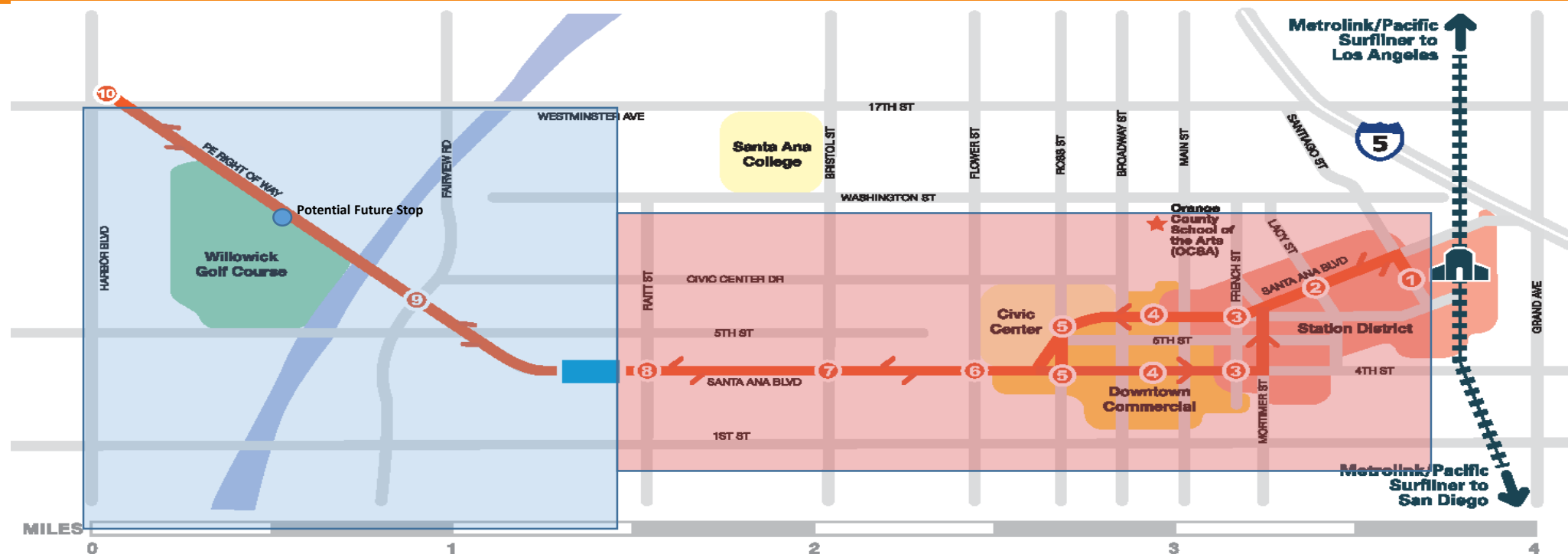
OC Streetcar Project Quarterly Update

Background

- Measure M2 Project S – Transit Extensions to Metrolink approved by Orange County voters in November 2006
- Key OC Streetcar project (Project) implementation dates:

Key Milestone	Date	Contract Execution Amount (in Millions)
Vehicle Contract Award	March 2018	\$51.52
Construction Contract Award	September 2018	\$220.53
Full Funding Grant Agreement Executed	November 2018	\$148.96

OC Streetcar Features



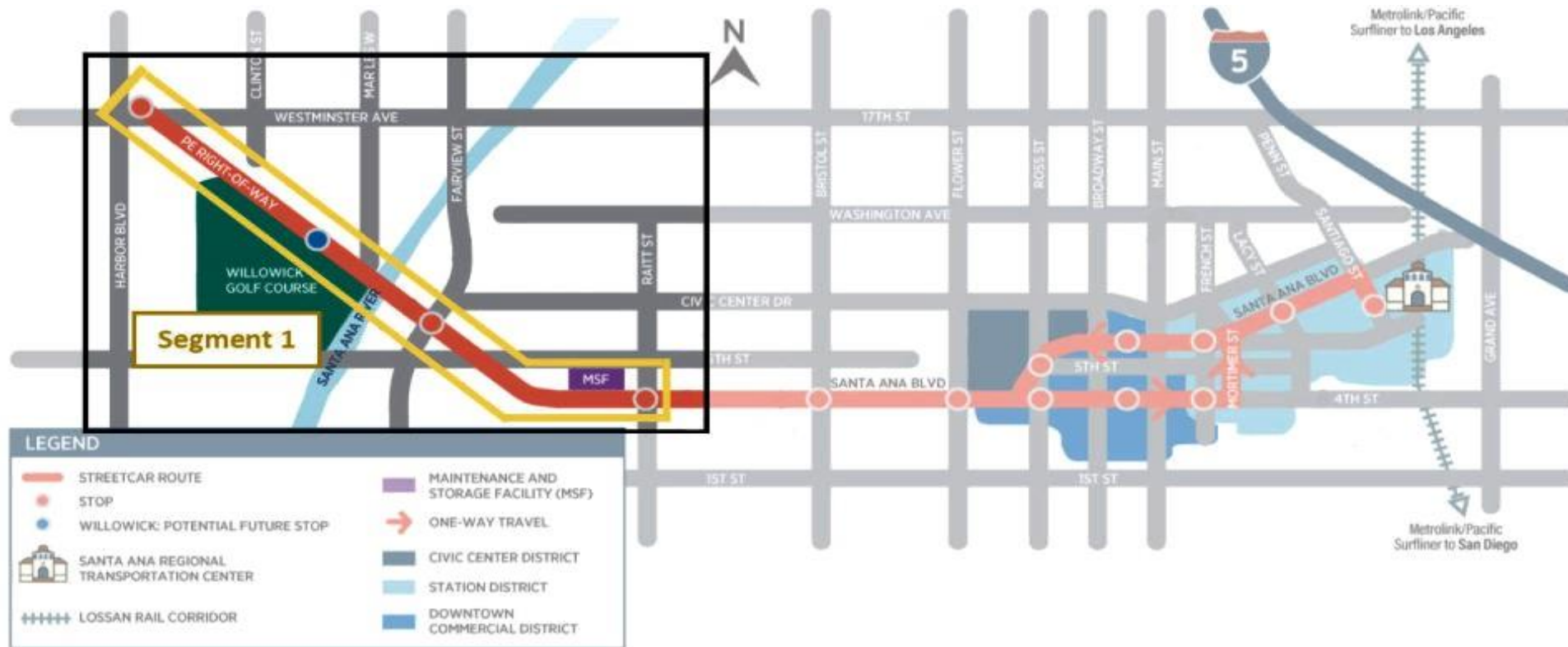
Pacific Electric Right-of-Way (PEROW)

- Dedicated right-of-way owned by the Orange County Transportation Authority (OCTA)
- Double-Track, Ties, and Ballast
- Two Bridges-Westminster and Santa Ana River
- Two Gated Crossings-Fairview and 5th Street
- Maintenance facility for eight cars west of Raitt Street
- Center Platforms
- Two-Wire Overhead Catenary System (OCS)

STREET RUNNING

- Traffic Signal Priority
- One-Way Couplet Downtown
 - 4th Street Eastbound, Santa Ana Boulevard Westbound
- Embedded Track (Block Rail)
- Side Platforms (except Santa Ana Regional Transportation Center)
- Protected bike lane on Santa Ana Boulevard
- One-Wire OCS with underground feeder

Construction—Segment 1



- Bridge foundations, bents, abutments and piers completed. Temporary falsework supports to build Westminster bridge installed. Retaining walls for bridge approaches beginning construction.
- Testing, manifesting, and hauling of contaminated materials from PEROW to approved disposal facilities is progressing.
- Establish rail laydown and welding area in PEROW.

Santa Ana River Bridge



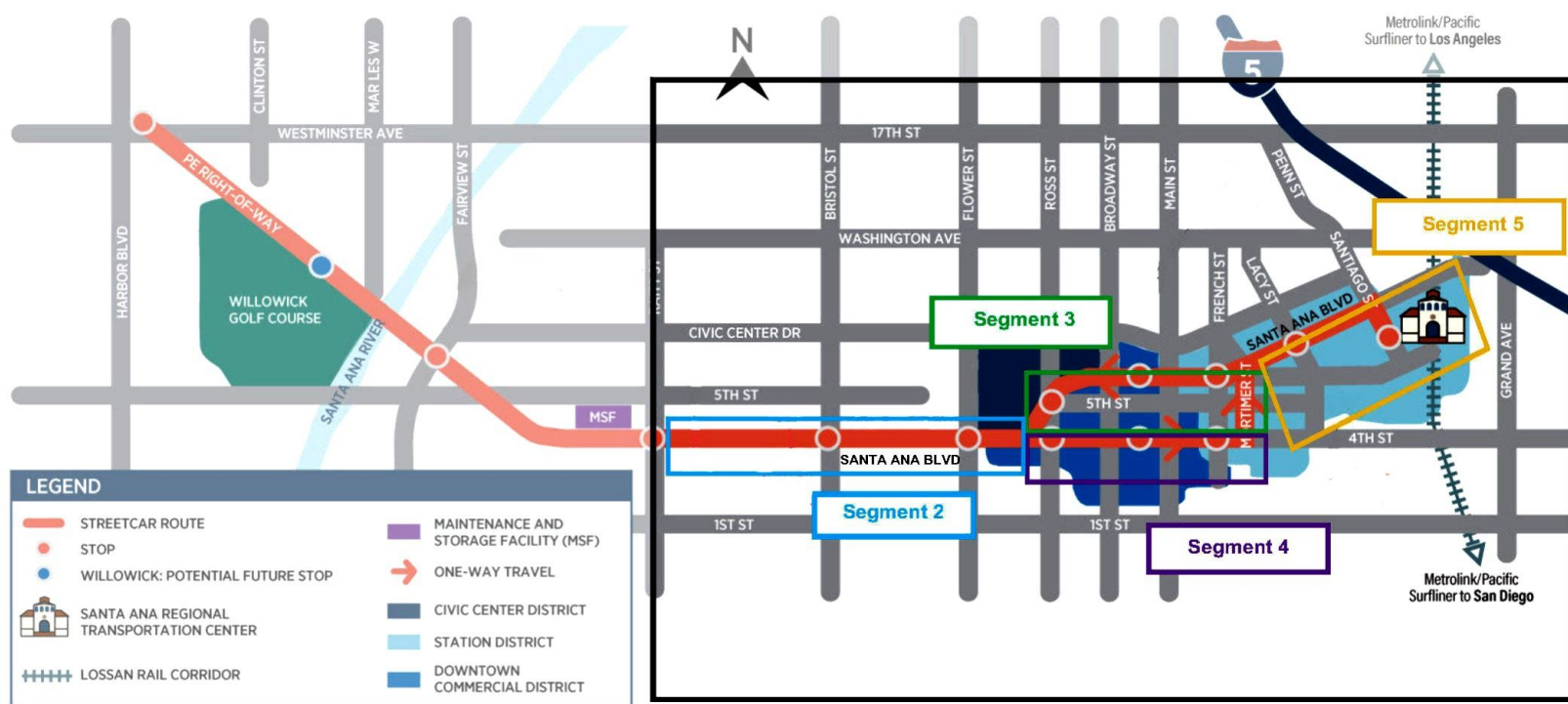
Westminster Avenue Bridge



Maintenance and Storage Facility (MSF)



Construction—Segments 2 Through 5



- Wet utilities relocated by OCTA's contractor: water, sewer, and storm drain
 - Raitt Street to Bristol Street utilities complete, in-street embedded trackwork will begin once the rail strings delivered and welded
 - Sewer relocations in Segment's 4 and 5 approximately 80 percent complete
 - Water line relocations are approximately 56 percent complete
 - Storm drain relocations in street-running segments are approximately 17 percent complete

Third-Party Utility Relocations

- Most third-party dry utility relocations are complete
- Remaining work includes:
 - Southern California Gas working downtown and east of downtown on Santa Ana Boulevard
 - Southern California Edison removal of underground vaults on Santa Ana Boulevard
 - AT&T with one final relocation being scheduled now that a conflicting sewer line has been relocated



Vehicles

- First article inspections have been conducted for the brake system, first welded carshell, auxiliary power supply, and the painted carshell
- Finalizing outstanding items from final design review
- California Public Utilities Commission approved a variance request for the use of rearview cameras in lieu of rearview mirrors
- Ongoing coordination with Conduent and Siemens on Computer Aided Dispatch and Automated Vehicle Location design specifications
- Ongoing coordination between OCTA, Siemens, and Walsh Construction Company II, LLC, in the integration of the streetcar vehicle with the infrastructure, including the tracks, platforms, MSF, and wayside equipment and systems



Vehicle Interior



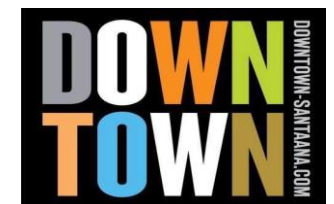
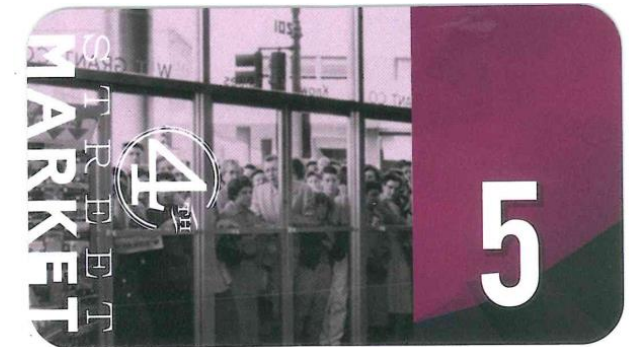
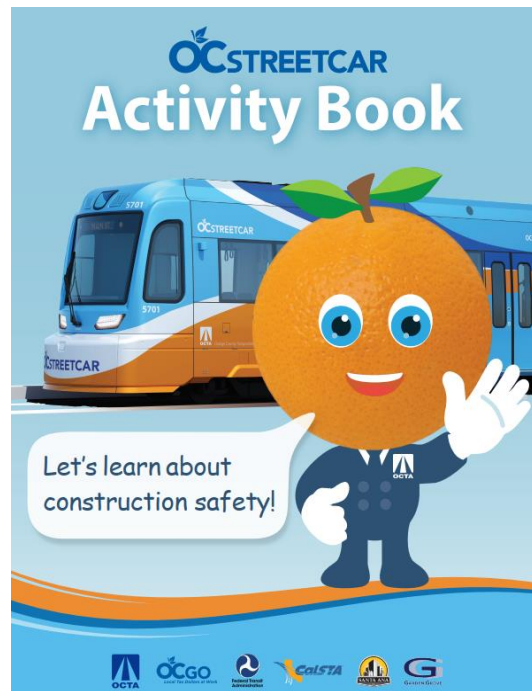
Other Key Project Updates

- Best and final offers were received in response to the operations and maintenance request for proposals
 - Contract award anticipated in April 2020
- Ongoing coordination with the Federal Transit Administration, City of Santa Ana, City of Garden Grove, Orange County Fire Authority, Orange County Flood Control District, and OC Parks



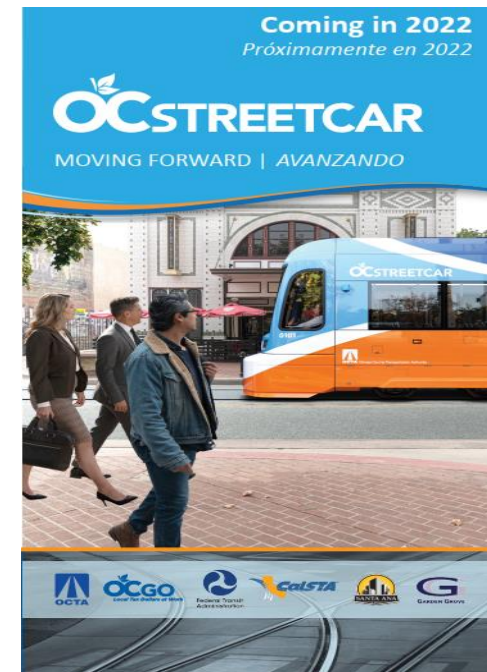
OC Streetcar Outreach – Support

- Eat, Shop, Play
- Dining Guide
- OCTA Employee Program
- Lobby Displays
- Safety Campaign
- Parking Signage



OC Streetcar Outreach – Construction

- E-Blasts
- Social Media
- Flyers and Doorhangers
- Mobile App
- Construction Brochure
- Closed Circuit Television Slides
- Posters with tear-sheets



OC Streetcar Awareness Campaign

- Promote brand awareness
- Integrated website design and development
- Brand video
- Benefit-driven brochure

