

## Appendix 1: Segment Descriptions

<b>Segment 1</b> <b>Ocean Boulevard to Willow Street</b>		
<b>Interchanges</b>	<b>Freight Corridor</b>	<b>Other Key Features</b>
<p><b>Ocean:</b> Match Gerald Desmond Bridge Improvements</p> <p><b>Harbor Scenic:</b> Match Gerald Desmond Bridge Improvements</p> <p><b>Pico:</b> Reconstruct ramps</p> <p><b>Shoreline:</b> Reconstruct ramps</p> <p><b>Anaheim:</b> Reconstruct (Single Point)</p> <p><b>Pacific Coast Hwy:</b> Reconstruct (Single Point)</p> <p><b>Willow:</b> Reconstruct (Single Point)</p>	<p>Northbound Connections:</p> <ul style="list-style-type: none"> <li>• From Ocean</li> <li>• From Harbor Scenic</li> <li>• From Pico</li> <li>• From Anaheim</li> </ul> <p>Southbound Connections:</p> <ul style="list-style-type: none"> <li>• To Anaheim</li> <li>• To Pico</li> <li>• To I-710</li> </ul> <p>At-grade Alignment Limits:</p> <ul style="list-style-type: none"> <li>• Harbor Scenic to Shoreline</li> </ul> <p>Elevated Alignment Limits:</p> <ul style="list-style-type: none"> <li>• Anaheim to Willow</li> </ul>	<ul style="list-style-type: none"> <li>• Replace or modify LA River bridges</li> <li>• Relocate multiple underground oil and gas pipelines</li> <li>• Modify Downtown Long Beach streets</li> <li>• Relocate storm water pump stations</li> </ul>
<b>Segment 2</b> <b>Wardlow Road to Del Amo Boulevard</b>		
<b>Interchanges</b>	<b>Freight Corridor</b>	<b>Other Key Features</b>
<p><b>Wardlow:</b> Remove ramps / close</p> <p><b>I-405:</b> Reconstruct all connectors (Four-Level)</p> <p><b>Del Amo:</b> Reconstruct (Single Point)</p> <p><b>Santa Fe at I-405:</b> Reconstruct ramps</p> <p><b>Pacific Place:</b> Reconstruct ramps</p>	<p>Northbound Connections:</p> <ul style="list-style-type: none"> <li>• From I-710 (north of I-405)</li> </ul> <p>Southbound Connections:</p> <ul style="list-style-type: none"> <li>• To I-710 (north of I-405)</li> </ul> <p>At-grade Alignment Limits:</p> <ul style="list-style-type: none"> <li>• Wardlow to Del Amo</li> </ul> <p>Elevated Alignment Limits:</p> <ul style="list-style-type: none"> <li>• Del Amo</li> </ul>	<ul style="list-style-type: none"> <li>• Replace or modify LA River bridges (6 structures)</li> <li>• Relocate of overhead electrical (SCE) transmission lines</li> <li>• Reconstruct Metro Blue Line and UPRR subdivision</li> <li>• Realign Carson Street and Susana Road</li> <li>• Modify Dominguez Basin</li> </ul>
<b>Segment 3</b> <b>Long Beach Boulevard to Alondra Boulevard</b>		
<b>Interchanges</b>	<b>Freight Corridor</b>	<b>Other Key Features</b>
<p><b>Long Beach:</b> Reconstruct (modified diamond)</p> <p><b>Artesia:</b> Reconstruct ramps</p> <p><b>SR-91:</b> Reconstruct 4 connectors (Four-Level)</p> <p><b>Alondra:</b> Reconstruct (Single Point)</p> <p><b>Long Beach at SR-91:</b> Reconstruct westbound ramps</p>	<p>Northbound Connections:</p> <ul style="list-style-type: none"> <li>• To eastbound SR-91</li> </ul> <p>Southbound Connections:</p> <ul style="list-style-type: none"> <li>• From westbound SR-91</li> </ul> <p>At-grade Alignment Limits:</p> <ul style="list-style-type: none"> <li>• Long Beach to Artesia</li> </ul> <p>Elevated Alignment Limits:</p> <ul style="list-style-type: none"> <li>• Artesia to Alondra</li> </ul>	<ul style="list-style-type: none"> <li>• Replace or modify LA River bridges</li> <li>• Relocate overhead electrical (SCE) transmission lines</li> <li>• Relocate storm water pump stations</li> </ul>

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<b>Segment 4 Rosecrans Avenue to Firestone Boulevard</b>		
<b>Interchanges</b>	<b>Freight Corridor</b>	<b>Other Key Features</b>
<p><b>Rosecrans:</b> Reconstruct (Partial Cloverleaf)</p> <p><b>I-105:</b> Modify 4 connector approaches (Four-Level)</p> <p><b>MLK:</b> Reconstruct ramps</p> <p><b>Imperial:</b> Reconstruct (Single Point)</p> <p><b>Firestone:</b> Reconstruct (Partial Cloverleaf)</p>	<p>Northbound Connections:</p> <ul style="list-style-type: none"> <li>• To Patata</li> </ul> <p>Southbound Connections:</p> <ul style="list-style-type: none"> <li>• From Patata</li> </ul> <p>At-grade Alignment Limits:</p> <ul style="list-style-type: none"> <li>• At I-105</li> </ul> <p>Elevated Alignment Limits:</p> <ul style="list-style-type: none"> <li>• Somerset to Rosecrans</li> <li>• Imperial to Firestone</li> </ul>	<ul style="list-style-type: none"> <li>• Modify LA River bridges</li> <li>• Relocate overhead electrical (DWP) transmission lines</li> <li>• Extend Southern Avenue across I-710 and LA River</li> <li>• Modify and add access to Thunderbird Villas Mobile Home Park</li> <li>• Reconstruct UPRR subdivision</li> <li>• Relocate storm water pump stations</li> </ul>
<b>Segment 5 Clara Street to Slauson Avenue</b>		
<b>Interchanges</b>	<b>Freight Corridor</b>	<b>Other Key Features</b>
<p><b>Florence:</b> Reconstruct (Single Point)</p> <p><b>Slauson:</b> New (Single Point)</p>	<p>Northbound Connections:</p> <ul style="list-style-type: none"> <li>• None</li> </ul> <p>Southbound Connections:</p> <ul style="list-style-type: none"> <li>• None</li> </ul> <p>At-grade Alignment Limits:</p> <ul style="list-style-type: none"> <li>• None</li> </ul> <p>Elevated Alignment Limits:</p> <ul style="list-style-type: none"> <li>• Clara to Slauson</li> </ul>	<ul style="list-style-type: none"> <li>• Replace LA River bridges</li> <li>• Relocate overhead electrical (DWP) transmission lines</li> <li>• Reconstruct UPRR subdivision</li> <li>• Remove LA Junction crossing over I-710 and at-grade crossing at Slauson</li> <li>• Replace Clara St and Gage Ave overcrossings</li> </ul>
<b>Segment 6 Atlantic Boulevard to Washington Boulevard</b>		
<b>Interchanges</b>	<b>Freight Corridor</b>	<b>Other Key Features</b>
<p><b>Atlantic/Bandini:</b> Reconstruct (One-quadrant Cloverleaf)</p> <p><b>Alternative 5A Washington:</b> Reconstruct (Two-quadrant cloverleaf)</p> <p><b>Alternative 6A/B/C/D</b></p> <p><b>Washington:</b> Reconstruct and combine freight corridor access.</p>	<p>Northbound Connections:</p> <ul style="list-style-type: none"> <li>• To I-710</li> <li>• To Washington</li> </ul> <p>Southbound Connections:</p> <ul style="list-style-type: none"> <li>• From I-710</li> <li>• From Washington</li> </ul> <p>At-grade Alignment Limits:</p> <ul style="list-style-type: none"> <li>• None</li> </ul> <p>Elevated Alignment Limits:</p> <ul style="list-style-type: none"> <li>• Atlantic to Washington</li> </ul>	<ul style="list-style-type: none"> <li>• Realign freeway (6A/B/C/D)</li> <li>• Reconstruct Atlantic Blvd at Bandini</li> <li>• Reconstruct and raise Washington Blvd at ramp termini</li> <li>• Modify LA Junction subdivision</li> <li>• Reconstruct freeway bridges over Hobart Rail Yard (BNSF) and East LA Rail Yard (UP)</li> </ul>

## Appendix 1: Segment Descriptions

Segment 7 Interstate 5 to State Route 60		
Interchanges	Freight Corridor	Other Key Features
<p><b>Alternative 5A:</b> Restripe to match Segment 6</p> <p><b>Alternative 6A/B/C/D:</b></p> <p><b>I-5:</b> Reconstruct 2 connectors (Two-Level)</p> <p><b>Olympic/Eastern:</b> Reconstruct ramps</p> <p><b>3<sup>rd</sup> Street:</b> No modifications</p> <p><b>SR-60:</b> No modifications</p>	<ul style="list-style-type: none"> <li>• None</li> </ul>	<p><b>Alternative 6A/B/C/D:</b></p> <ul style="list-style-type: none"> <li>• Change NB710 to NB5 connector from left-hand side exit to right-hand side exit</li> </ul>