



# City of Carson Report to Mayor and City Council

November 7, 2012  
New Business Consent

**SUBJECT: CONSIDER AN APPROVAL OF CHANGE ORDERS FOR PROJECT NO. 921  
[FEDERAL NO. NCBLN01-5403(010)]: AVALON BOULEVARD INTERCHANGE  
MODIFICATION AT THE I-405 FREEWAY**

Submitted by Farrokh Abolmuthi  
Acting Director of Public Works

Approved by David C. Biggs  
City Manager

## THIS IS A JOINT AGENDA ITEM

### I. SUMMARY

Project No. 921 [Federal No. NCBLN01-5403(010)]: Avalon Boulevard Interchange Modification at the I-405 Freeway construction is substantially complete (Exhibit No. 1).

During the construction phase of the project, as expected and permitted by the State Department of Transportation (Caltrans) for this type of projects, several foreseen and unforeseen issues were encountered that necessitated Change Orders No. 1 through 29 in the amount of \$2,009,509.75. This amount consists of previously authorized contingency of \$1,832,973.00 and construction contract increase of \$176,536.75. Approval of these change orders will bring the total construction contract with Powell Constructors to \$14,229,331.40.

### II. RECOMMENDATION

TAKE the following actions:

1. AUTHORIZE the expenditure of an additional \$176,536.75 to augment the previously authorized construction contingency in the amount of \$1,832,973.00 for Project No. 921 [Federal No. NCBLN01-5403(010)]: Avalon Boulevard Interchange Modification at the I-405 Freeway.
2. APPROVE Change Orders No. 1 through 29 for Project No. 921 [Federal No. NCBLN01-5403(010)]: Avalon Boulevard Interchange Modification at the I-405 Freeway, in the amount of \$2,009,509.75. This will increase the construction contract with Powell Constructors from \$12,219,821.65 to \$14,229,331.40.

### III. ALTERNATIVES

1. DO NOT authorize the expenditure of additional \$176,536.75.
2. DO NOT Approve Change Orders No. 1 through 29.
3. TAKE another action the Agency Board deems appropriate.

4

**IV. BACKGROUND**

The City's Capital Improvement Program (CIP) includes project No. 921: Avalon Boulevard Interchange Modifications at the I-405 Freeway. The proposed project is approximately 1.4 miles southeast of the I-405 freeway interchange with Main Street and 0.7 miles northwest of the I-405 freeway interchange with Carson Street. The project includes the construction of a portion of a city collector roadway west of Avalon Boulevard, reconfiguring the existing on-ramps and off-ramps at Avalon Boulevard and construction of a new southbound on-ramp in the southeast quadrant of the interchange.

The project created a southbound I-405 freeway on-ramp from northbound Avalon Boulevard next to the former Don Kott auto dealership properties and will allow access to the proposed 1,500,000 square-foot "The Boulevards at South Bay" development at a currently vacant site at the southwest quadrant of this interchange. As a result of the traffic and environmental studies conducted for this development, it was concluded that the Avalon Boulevard interchange modifications at the I-405 freeway were necessary to provide improved access to the existing SouthBay Pavilion mall as well as other land uses in the vicinity. The proposed expansion of, and recent construction within, the California State University Dominguez Hills boundaries, located approximately 1.5 miles north of this interchange, has emphasized the need for and benefit of this project as well.

In accordance with the federal and state requirements, to be eligible for reimbursement, the project must be placed in a specific federal or state funding program, and the local agency must obtain authorization to proceed with each phase of the project from the California Department of Transportation (Caltrans).

On August 26, 2002, Caltrans issued "Authorization to Proceed with Preliminary Engineering" in the form of an E-76. Caltrans' authorization, followed by the execution of a Program Supplement Agreement to the Administering Agency-State Master Agreement No. 07-5403 between the state and the City, obligated up to \$769,125.00 in Federal National Corridors and Borders fund (NCB) for the design phase of this project.

On November 15, 2005, the Agency Board approved a Professional Services Agreement with DMJM Harris in the amount of \$1,256,849.00 to prepare the Project Report, Environmental Document (ED), including Initial Study / Environmental Assessment (IS/EA), and Geometric Approval Drawings (GAD), to obtain the Project Approval (PA); and for the preparation of plans, specifications, and estimates (PS&E) for Project No. 921: Avalon Boulevard Interchange Modification at the I-405 Freeway (Exhibit No. 2).

On May 16, 2006, the City Council adopted Resolution No. 06-007 approving Cooperative Agreement No. 07-4618 with Caltrans. Cooperative Agreement No. 07-4618 formalized the financial and procedural arrangements between

Caltrans and the City for the design phase of the Avalon Boulevard interchange modification at the I-405 freeway (Exhibit No. 3).

On March 7, 2007, the Agency Board approved the First Amendment to the Professional Services Agreement with DMJM Harris in the amount of \$208,719.00 (Exhibit No. 4).

On May 6, 2008, the Agency Board approved the Second Amendment to the Professional Services Agreement with DMJM Harris in the amount of \$399,918.00 (Exhibit No. 5).

On December 16, 2008, the City Council / Agency Board approved a Professional Services Agreement with Parsons Transportation Group, Inc., to provide Construction Management Services for Project No. 921; for a negotiated fee not-to-exceed \$2,403,506.43, pending Caltrans' pre-award audit (Exhibit No. 6).

On April 21, 2009, the City Council adopted Resolution No. 09-038 authorizing the execution of Cooperative Agreement No. 07-4840 with Caltrans. Cooperative Agreement No. 07-4840 formalized the financial and procedural arrangements between Caltrans and the City for the construction and maintenance phase of the Project No. 921 (Exhibit No. 7).

Project No. 921 includes construction of a bridge over the Los Angeles County Torrance Lateral Flood Control Channel. The appraised value of the required right-of-way is \$303,600.00.

On September 15, 2009, the City Council adopted Resolution No. 09-098 authorizing the execution of an agreement for the cost sharing of state highway electrical facilities with the City of Carson (Exhibit No. 8). The agreement for sharing the cost of state highway electrical facilities superseded a similar agreement dated August 2, 1988.

On December 15, 2009, the Agency Board approved the Third Amendment to the Professional Services Agreement with DMJM Harris in the amount of \$379,989.00, which brought the total design cost of the project to \$2,245,475.00 (Exhibit No. 9).

On December 15, 2009, the City Council / Agency Board approved the PS&E and instructed the staff to advertise the work immediately after issuance of authorization to proceed with construction by Caltrans, and called for bids for Project No. 921 (Exhibit No. 10). On April 12, 2010, Caltrans issued authorization to advertise the project for construction bids. On May 4, 2010, the project was advertised, and the bid opening was set for June 3, 2010.

Caltrans' construction authorization and the execution of a Program Supplement Agreement to the Administering Agency-State Master Agreement No. 07-5403R between the state and the City, obligated up to \$4,319,521.00 in the Safe, Accountable, Flexible, and Efficient Transportation Equity Act – A Legacy for

Users (SAFETEA-LU) and \$6,770,950.00 in the Metropolitan Transit Authority (MTA) – 2009 Call for Projects for the construction phase of this project. Including the \$769,125.00 of NCB funds, which the City used to pay for a portion of the design phase of the project, this project has been awarded \$11,859,596.00 of available federal and state funds for design and construction.

On June 15, 2010, the City Council / Agency Board awarded a construction contract for Project No. 921 in the amount of \$12,219,821.65, to the lowest responsible bidder, Powell Constructors (Exhibit No. 11). At the same meeting the City Council / Agency Board authorized the expenditure of a construction contingency in the amount of \$1,832,973.00 (15%) for change orders associated with this project.

Caltrans standard specification for freeway related projects requires change orders to be issued for certain activities such as traffic maintenance, asphalt price adjustments, final quantity adjustment, and unforeseen field adjustment items.

Approval of change orders 1 through 29 makes the total Powell Constructors construction contract to be \$14,229,331.40.

Since the proposed “The Boulevards at South Bay” development at the southwest quadrant of this interchange will not be completed until sometime in 2015, the Interchange project could not be finalized per approved plans. Therefore, it is anticipated that approximately \$500,000.00 additional funds will be required for traffic signal modification, roadway stripping, and landscape modification at the time of the opening of “The Boulevards at South Bay”.

The accomplished and anticipated timeline for this project is as follows:

Approval of PS&E	December 15, 2009
Caltrans issuance of “Authorization to Proceed with Construction” in the form of an E-76	April 12, 2010
Advertise Notice Inviting Bids	May 4, 2010
Award of construction contract	June 15, 2010
Start of construction	August 2, 2010
Completion of construction	July 27, 2012
Completion of Landscape plan establishment period	December 31, 2012

V. **FISCAL IMPACT**

This is a multi-year project for which required funds have been budgeted each fiscal year in the Carson Redevelopment Agency / Carson Successor Agency (CRA/CSA) Project Area No.1 budget in account no. 30707109758020/0092101.

As of the approval of the FY 2008/09 budget, the total estimated cost of this project was \$21,800,000.00. However, as of the date of preparation of this agenda item, the total estimated cost of this project was reduced to \$19,300,000.00, due to the decrease in the construction cost. The project is funded by the CRA, the NCB, the SAFETEA-LU, and the MTA 2009 Call for Projects as shown in detail in the following tables.

The updated distribution of estimated costs for this project is as follows:

<b>Description</b>	<b>Amount</b>
DMJM Harris: Design Phase (PS&E)	\$2,245,475.00
Parsons Transportation Group, Inc.: Construction Management	\$2,403,506.43
Powell Constructors: Construction Contract	12,219,821.65
Construction contingency (15%)	1,832,973.00
Additional construction contingency	\$176,536.75
SCE: Power Pole relocation	20,000.00
LA County DWP: right-of-way acquisition	303,600.00
Caltrans: Traffic Controllers, ramp metering equipments and certain inspections per construction cooperative agreement	69,870.38
Various: printing and publication	28,216.79
<b>TOTAL PROJECT COST</b>	<b>\$19,300,000.00</b>

The project funding sources and amounts are as follows:

<b>Fund Source</b>	<b>Design Phase</b>	<b>Construction Phase</b>	<b>Amount</b>
CRA / CSA	\$1,476,350.00	\$5,964,054.00	\$7,440,404.00
NCB	769,125.00	n/a	769,125.00
SAFETEA-LU	n/a	4,319,521.00	4,319,521.00
MTA – 2009 Call for Projects	n/a	6,770,950.00	6,770,950.00
<b>TOTAL</b>	<b>\$2,245,475.00</b>	<b>\$17,054,525.00</b>	<b>\$19,300,000.00</b>

## VI. EXHIBITS

Exhibits listed below are included with the Carson Successor Agency Joint item.

1. Location Map. (pg. 7)
2. Minutes, November 15, 2005, Item No. 6. (pg. 8)
3. Minutes, May 16, 2006, Item No. 19. (pg. 9)

4. Minutes, March 7, 2007, Item No. 8. (pg. 10)
5. Minutes, May 6, 2008, Item No. 2. (pg. 11)
6. Minutes, December 16, 2008, Item No. 7. (pg. 12)
7. Minutes, April 21, 2009, Item No. 11. (pg. 13)
8. Minutes, September 15, 2009, Item No. 10. (pg. 14)
9. Minutes, December 15, 2009, Item No. 4. (pg. 15)
10. Minutes, December 15, 2009, Item No. 7. (pgs. 16-17)
11. Minutes, June 15, 2010, Item No. 6. (pg. 18)

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Prepared by: MASSOUD GHIAM, P.E., Senior Civil Engineer

TO: Rev09-04-2012

Reviewed by:

City Clerk	City Treasurer
Administrative Services <i>Handwritten signature</i>	Public Works
Community Development	Community Services

**Action taken by City Council**

Date\_\_\_\_\_ Action\_\_\_\_\_