AGENDA DATE: September 9, 2014

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Contract For Construction Of The Mason Street Bridge Replacement Project

RECOMMENDATION: That Council:

A. Award a contract with Lash Construction, Inc., in their low bid amount of $6,658,081 for construction of the Mason Street Bridge Replacement Project, Bid No. 3588; and authorize the Public Works Director to execute the contract and approve expenditures of up to $622,628 to cover any cost increases that may result from contract change orders for extra work and differences between estimated bid quantities and actual quantities measured for payment;

B. Accept Federal Highway Administration Grant funding in the total amount of $7,100,000 to cover the cost of construction;

C. Increase appropriations and estimated revenues by $200,000 to reflect grant funding approved and received for the design and right-of-way phases of the project that were not previously appropriated;

D. Increase appropriations and estimated revenues related to the Federal Highway Administration Grant by $7,100,000 in the Fiscal Year 2015 Streets Capital Fund for the Mason Street Bridge Replacement Project, of which $6,098,913 will be used for the construction contract with Lash Construction, Inc., and the balance will be used to cover other construction related contracts and costs subject to subsequent Council approval;

E. Increase appropriations and estimated revenues by $1,181,795.75 in the Fiscal Year 2015 Streets Capital Fund representing the County’s share of the construction contract for the Mason Street Bridge Replacement Project pursuant to an existing cost-sharing agreement between the City and County; and

F. Receive a presentation regarding the upcoming construction projects in the Lower State Street area, including the area near Mason Street and Cabrillo Boulevard.

EXECUTIVE SUMMARY:

The Mason Street Bridge Replacement Project (Project) will remove the structurally deficient 59 year old bridge and replace it with a new bridge that meets current State of
California Department of Transportation (Caltrans) design standards and flood flow capacity needs identified in the Lower Mission Creek Flood Control Project (LMC Project), which will reduce neighborhood flooding. The Project also includes construction for the Santa Barbara County Flood Control and Water Conservation District (County) of the LMC Project Reach 1A Phase 2 channel that is located immediately adjacent and downstream of the Mason Street Bridge. A cost-sharing agreement approved by Council on January, 4, 2014 provides a mechanism for the County to reimburse the City for its costs. Constructing these two pieces of the LMC Project at the same time will benefit surrounding properties by limiting the construction time.

**DISCUSSION:**

**BACKGROUND**

The Project is a part of the overall LMC Project. The LMC Project was initiated as a long-term joint effort between the United States Army Corps of Engineers, the County of Santa Barbara (County), and the City of Santa Barbara (City) in the 1960s. It addresses the last 1.3 miles of lower Mission Creek from just downstream of Canon Perdido Street to the Cabrillo Boulevard Bridge, just before the creek enters the Pacific Ocean. This project is a cooperative project between the City and County.

**PROJECT DESCRIPTION**

The Project is located at Mason Street between Chapala Street and State Street. The project consists of removing and replacing a concrete bridge and roadway approaches; removing building facilities; abating hazardous building materials; relocating domestic water and sanitary sewer facilities; constructing concrete secant pile channel walls; realigning a roadway; planting landscape materials; and installing storm drainage facilities, street lights, and irrigation systems. The proposed bridge consists of a precast pre-stressed concrete deck and cast-in-place concrete abutment walls incorporating concrete secant pile deep foundations. The concrete secant pile deep foundation was selected as the preferred pile construction method because it is a drilled pile method that greatly minimizes the impacts associated with the conventional pile driving method. This method received special approval from Caltrans and is a milestone for City projects because it is an innovative method that meets or exceeds structural requirements while minimizing environmental impacts.

The Project specifications included an alternate bid for the County’s LMC Reach 1A Phase 2 Project that is located immediately adjacent and downstream of the Mason Street Bridge. The LMCFC Reach 1A Phase 2 Project consists of removing and replacing channel walls and widening Mission Creek. The County will be reimbursing the City for their costs through a cost-sharing agreement approved by Council on January, 4, 2014.
CONTRACT BIDS

A total of three bids were received for the subject work, ranging as follows:

<table>
<thead>
<tr>
<th>BIDDER</th>
<th>BID AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Lash Construction, Inc.</td>
<td>$6,658,081.00</td>
</tr>
<tr>
<td>Santa Barbara, CA</td>
<td></td>
</tr>
<tr>
<td>2. Granite Construction Company</td>
<td>$6,805,757.48</td>
</tr>
<tr>
<td>Santa Barbara, CA</td>
<td></td>
</tr>
<tr>
<td>3. Disney Construction, Inc.</td>
<td>$8,701,301.00</td>
</tr>
<tr>
<td>Burlingame, CA</td>
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</tbody>
</table>

The bid of $6,658,081.00, submitted by Lash Construction, Inc. (Lash), is an acceptable bid for both the City and the County that is responsive to and meets the requirements of the bid specifications. The grant portion of the total bid is $5,544,466 and the recommended change order authority for the City is $554,447 or 10 percent of the construction cost which is typical for this type of project. The County’s portion of the bid is $1,113,615 and the recommended change order authority is $68,181 or 10 percent of the first $250,000 of the construction cost and then 5 percent of the remainder of the construction cost, which is standard for County projects.

CONSTRUCTION MANAGEMENT SUPPORT SERVICES

Staff has selected consultants to provide construction management, engineering support, and environmental monitoring for the Project. The City’s portion of the bid came in lower than estimated; however, the costs for construction management are higher than the fifteen percent allowed by the FHWA without special approval. Staff is working with Caltrans to obtain this special approval and will return to Council to award construction phase support service contracts. Staff will return to Council in the near future to award these contracts.

COMMUNITY OUTREACH

The Mason Street Bridge Project is one of several projects that will be starting this fall and scheduled to finish in 2016. The other large projects in the area are the Cabrillo Boulevard Bridge Replacement Project, Entrada de Santa Barbara, and the Children’s Museum. There are also be projects slated to begin in the summer of 2015 including the 101 State Street Hotel Project and County LMC Reaches 1B and 2A between Mason Street and Yanonali Street. Staff has been coordinating all this work and has planned traffic control and haul routes to minimize disruption and keep the public safe while work is being conducted.
Approximately two months ago, in advance of anticipated Mason Street Bridge construction, written notices with fact sheets were mailed to adjacent properties within 500 feet of the Project site. The fact sheets contained information about the Project’s benefit, location, construction schedule, traffic control showing temporary road closures and detours, staff’s contact information, and the City website information for construction status updates.

Staff will also be mailing written notices at a minimum of two weeks in advance of the start of construction activity. The written notices will provide detailed information of construction hours and staff’s contact information. Once the construction contractor is issued the notice to proceed, the construction contractor will deliver another written notice, 72 hours in advance of any construction activity, to the adjacent properties within 500 feet of the Project site.

FUNDING

The City has received construction and construction management authorization of $7,100,000 from the Federal Highway Administration (FHWA) Highway Bridge Program grant for 100 percent of eligible Project construction costs. The grant cost for the construction of the Mason Street Bridge totals $6,098,913 excluding the cost of construction management, engineering support, and environmental monitoring. Caltrans will adjust the grant amount based on the council award amounts.

The LMCFC Reach 1A Phase 2 Project construction cost is separately funded by the Santa Barbara County Flood Control Benefit Assessment Fees. The division of costs between the City and the County is covered by a cost-sharing agreement, approved by Council on January 14, 2014, and will be approved by the County Board of Supervisors on September 9, 2014. The County’s cost totals $1,181,796.

The City had previously received grant funding for the design and right-of-way phases of the Mason Street Bridge Project. Not all the funding received was appropriated during those phases. Staff recommends that Council appropriate the remaining $200,000 of available grant funds.

The following table summarizes the construction contract funding recommended in this report:

<table>
<thead>
<tr>
<th></th>
<th>Basic Contract</th>
<th>Change Funds</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lash</td>
<td>$6,658,081.00</td>
<td>$622,627.75</td>
<td>$7,280,708.75</td>
</tr>
</tbody>
</table>

TOTAL RECOMMENDED AUTHORIZATION $7,280,708.75
The following table summarizes the City’s cost of design, right of way acquisition, pre-construction activities, and project management and construction costs being shared by the City and County.

**ESTIMATED TOTAL PROJECT COST**

*Cents have been rounded to the nearest dollar in this table.*

<table>
<thead>
<tr>
<th></th>
<th>GRANT</th>
<th>CITY</th>
<th>COUNTY</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Cost (Contract)</td>
<td>$803,159</td>
<td>$104,058</td>
<td></td>
<td>$907,217</td>
</tr>
<tr>
<td>Right of Way Cost (Contract)</td>
<td>$74,891</td>
<td></td>
<td></td>
<td>$74,891</td>
</tr>
<tr>
<td>Right of Way Acquisition and Relocation Costs</td>
<td>$4,695,293</td>
<td></td>
<td></td>
<td>$4,695,293</td>
</tr>
<tr>
<td>Other Preconstruction Cost- Sycamore Tree Propagation (Contract)</td>
<td>$4,591</td>
<td>$595</td>
<td></td>
<td>$5,186</td>
</tr>
<tr>
<td>Project Management Cost (City Staff)</td>
<td>$367,043</td>
<td>$98,304</td>
<td></td>
<td>$465,347</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>$5,944,977</strong></td>
<td><strong>$202,957</strong></td>
<td></td>
<td><strong>$6,147,934</strong></td>
</tr>
<tr>
<td>Construction Contract (Base Bid Plus Alternate Bid)</td>
<td>$5,544,466</td>
<td>$1,113,615</td>
<td></td>
<td>$6,658,081</td>
</tr>
<tr>
<td>Construction Change Order Allowance</td>
<td>$554,447</td>
<td>$68,181</td>
<td></td>
<td>$622,628</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>$6,098,913</strong></td>
<td></td>
<td><strong>$1,181,796</strong></td>
<td><strong>$7,280,709</strong></td>
</tr>
<tr>
<td>Construction Management Support/Inspection/Material Testing Cost (Contract)</td>
<td>$1,392,615</td>
<td></td>
<td>$208,092</td>
<td>$1,600,707</td>
</tr>
<tr>
<td>Engineering Support Services (Contract)</td>
<td>$166,650</td>
<td></td>
<td></td>
<td>$166,650</td>
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<tr>
<td>Environmental Coordination/Biological Monitoring (Contract)</td>
<td>$167,327</td>
<td>$25,003</td>
<td></td>
<td>$192,330</td>
</tr>
<tr>
<td>Construction Management Cost (City Staff)</td>
<td>$116,568</td>
<td>$29,142</td>
<td></td>
<td>$145,710</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>$1,843,160</strong></td>
<td><strong>$29,142</strong></td>
<td><strong>$233,095</strong></td>
<td><strong>$2,105,397</strong></td>
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<tr>
<td><strong>TOTAL PROJECT COST</strong></td>
<td><strong>$13,887,050</strong></td>
<td><strong>$232,099</strong></td>
<td><strong>$1,414,891</strong></td>
<td><strong>$15,534,040</strong></td>
</tr>
</tbody>
</table>
SUSTAINABILITY IMPACT:

The Project’s environmental process has led to many special conditions to protect the environment during construction and provide for sustainability in the future. Native plants will be used, and major species to the riparian community will be restored along the Project Reach. Aquatic habitat will also be enhanced with the improvement of the streambed characteristics. The bridge will be widened from the current 32 feet to just over 49 feet and will provide a bike lane and sidewalks at least 6 feet wide. The bridge widening will improve safety and accessibility for pedestrians and will, therefore; contribute to the City’s sustainability goals by encouraging more people to walk, reducing energy consumption and air pollution.

ATTACHMENT(S): Mason Street Bridge Fact Sheet
PREPARED BY: Linda Sumansky, Principal Civil Engineer/JI/mj
SUBMITTED BY: Rebecca J. Bjork, Public Works Director
APPROVED BY: City Administrator’s Office
The Mason Street Bridge Replacement Project is one of three bridges being replaced over Mission Creek in the lower State Street vicinity. The bridge, built in 1946, has been deemed structurally deficient by CALTRANS and will be replaced to meet current structural standards. The new bridge design will:

- Increase flood capacity
- Increase habitat for the steelhead trout & tidewater gobies
- Improve safety
- Improve street lighting, sidewalks, landscape, & bridge railings

**CONSTRUCTION SCHEDULE**

*FALL 2014-SUMMER 2016*

**FUNDING**

*FEDERAL HIGHWAY BRIDGE PROGRAM*

**COST**

*$7 MILLION*
MASON STREET BRIDGE REPLACEMENT PROJECT

Construction will include:

- Building demolition
- Bridge replacement
- New channel walls
- Expanded habitat zones
- Kimberly Ave. realignment

There will be area closures during the Mason Street Bridge improvements and detour signage to reduce neighborhood impacts as much as possible. Please see detour map at:

www.santabarbaraca.gov/CabrilloBridgeDetours

construction information

For more information, please contact
John L. Ilasin, P.E.
Project Engineer
805.564.5383
City Website: www.SantaBarbaraCA.gov

* For monthly construction updates, please go to the City’s website. You will find more information at the “Major Construction Projects” link.
Upcoming Construction in Lower State Street Area

City Council Agenda Item 30
September 9, 2014
Overview

- Mason Street Bridge Replacement Project contract for construction
- Cabrillo Boulevard Bridge Replacement Project highlights
- Other projects in the area and how they interrelate in terms of timing and management of the public right of way
Mason Street Bridge

- Recommendation today to award construction contract to Lash Construction
- Start construction this fall
- Two year project but may be completed sooner
- Requires closure of West Mason Street at Mission Creek
Mason Street Bridge
Mason Street Bridge

- Complete structural replacement
- Part of Lower Mission Creek Flood Control Project
  - Expanded habitat zones
  - Reconstruction of deteriorated creek walls
- Provides increased sidewalk widths
Mason Street Bridge
Mason Street Bridge
Cabrillo Boulevard Bridge

- Bids received, staff will be returning to Council in near future to award construction contracts
- Start construction this fall
- Two year project, broken into 3 stages
- One lane of traffic in each direction will be maintained during construction
Cabrillo Boulevard Bridge

- Complete structural replacement
- Daylight creek by removing part building over creek
- Bank protection and lagoon restoration downstream
- Reconstruction of upstream walls as part of Lower Mission Creek
- Increased sidewalk widths
Cabrillo Boulevard Bridge
Cabrillo Boulevard Bridge

- Broken into three stages to maintain traffic and meet permit requirements
- Two years starting in fall 2014
  - Stage 1: Mobilize, bldg demo, utilities
  - Stage 2: North side of bridge, walls, temporary beachway bridge, utilities
  - Stage 3: South side of bridge, creek banks
Construction Stage 1 (2014)

- Primarily mobilization, partial building demolition, and start of utility relocations
- May start some foundation work
- Will include alternating lane closures
Construction Stage 2 (2015)
Detour to Downtown/Wharf

[Map showing detour routes for Downtown/Wharf]
Downtown/West Beach
Community Outreach

- Will be very important to keep both the local businesses and traveling public informed during construction

- Project websites:
  - www.santabarbararaca.gov/cabrillobridge
  - www.santabarbararaca.gov/masonbridge

- Construction Hotline: 805-897-2637
Upcoming Projects In Area
Other Public Works Projects
Private Land Development
Entrada de Santa Barbara

- Grading permit work scheduled to start soon
- Yanonali Street haul route
- Public improvements (east side State St) – Fall 2015
Other Private Land Development
Closing/Questions