

CITY OF LOS ANGELES
INTER-DEPARTMENTAL CORRESPONDENCE

0160-01545-0000

Date: August 4, 2010

To: City Council

From: Miguel A. Santana, City Administrative Officer

Gerry F. Miller, Chief Legislative Analyst

Subject: **SIXTH STREET VIADUCT IMPROVEMENT PROJECT – FINANCIAL PLAN**Summary

At its July 29, 2010 meeting, the Seismic Governance Committee considered a report from the Bureau of Engineering relative to the Financial Plan for the Sixth Street Viaduct Improvement Project (SSVIP). Based on that report, the City Administrative Office and Chief Legislative Analyst are transmitting joint recommendations to enable the City to complete the demolition and replacement of the Sixth Street Viaduct over the Los Angeles River.

The Sixth Street Viaduct (City No. 1275, State No. 53C1880), a reinforced concrete structure with steel arches over the Los Angeles River, is a historical landmark built in 1932. The bridge is one of California's longest bridges in a high population zone, spanning more than 3,600 feet. It also serves as an important transportation east-west corridor, linking Boyle Heights and downtown Los Angeles by carrying two lanes of traffic in each direction over the Los Angeles River, Santa Ana Freeway, several railroad tracks and surface streets. The viaduct is composed of three independent structures: the reinforced concrete west portion, the central steel arch section over the Los Angeles River, and the reinforced concrete east portion. The portion of the bridge spanning over the I-5 Freeway is owned by Caltrans.

The Sixth Street Viaduct suffers from a condition known as Alkali Silica Reactivity (ASR) which weakens the concrete strength and limits the ability to retrofit the bridge to current standards. The bridge is listed on Caltrans' mandatory seismic retrofit list and analyses performed indicate that this bridge has a 70 percent probability of failure, as compared to a standard of 10 percent, during a 7.0 magnitude earthquake within the next 50 years. This probability of failure increases every year. There are no known methods to reverse or stop ASR and if nothing is done to mitigate the ASR impact, the concrete elements will crumble and fall apart. No other bridge in the City has this severe condition and it is imperative that the City replace the bridge structure.

Project Scope and Budget

Since 2001, the Bureau of Engineering (BOE) has undertaken various preliminary activities related to the SSVIP, including community outreach, environmental analysis, planning and geotechnical studies. In addition to these activities, the project site was visited by the California Transportation Commission on September 9, 2009 to understand the issues related to the bridge structure and review the ASR impact on the structure.

The scope of the project includes: design, demolition of the existing bridge, associated right of way acquisitions and construction of a replacement bridge. The project is anticipated to take six years from certification of the environmental documents, through design, right of way acquisition, construction and beneficial occupancy. The total cost estimate for the SSVIP is \$359.3 million. The source of funds for the project includes the following:

- \$316.8 million (88%) – Federal Highway Bridge Program
- \$38.3 million (11%) – State Proposition 1B, Local Bridge Seismic Retrofit Program
- \$4.2 million (1%) - City of Los Angeles (Proposition G & Proposition C)

The federal and state monies are allocated on an annual, reimbursement basis. The annual allocations contain specific dollar caps associated with distinct project phases, i.e., right of way, design, and construction. As a general rule, the federal government will reimburse right of way costs at \$20 million per year and the State will match this with \$2.5 million per year. For construction costs, the federal reimbursement will increase to \$50 million per year with a state match of \$6.4 million. The City's annual costs for the project, however, are expected to exceed these amounts, which will require gap and front-funding. Therefore, it is recommended that the Council approve the use of Advanced Construction Authority (AC) process, as described below, for the construction of the SSVIP and utilize MICLA for the necessary gap financing needs.

Advance Construction Authority (AC)

The process known as Advance Construction Authority (AC) allows local jurisdictions to commit funds in advance of federal and state budget authority. In order to take advantage of this process, the City must apply to Caltrans and demonstrate sufficient funds to cover project costs until federal reimbursements are available. Not only will limiting the City's work to match the federal and state funding amounts increase the total project cost, it is infeasible during the construction phase. In order for the City to complete the project in a timely and cost-effective manner, as well as take advantage of the low local match requirement, it will be necessary for the City to use the AC process.

The City's expenses related to the MICLA expenses (principal, cost of issuance and debt service) are allowable federal and state grant expenditures. This means that the City will eventually be fully reimbursed for these costs. The risk to the City of undertaking AC is that if federal funds are not provided, it would be necessary for the City to identify up to \$359 million to complete the project or cancel the project. It is unlikely that the federal government would not provide the funding they have committed to this project, however, the timing and nature of a new federal surface transportation bill makes the receipt of the City's funds uncertain. A new federal transportation bill should be in place before the award of the construction contract for the bridge, however, it is possible that reauthorization will not take place until after the 2012 elections. Financial risk to the City could be mitigated if the award of the bridge construction contract occurs after Congress approves a new reauthorization of Federal surface transportation funding, although reimbursements would still lag behind expected expenditures. Staff recommends that the City Engineer be required to obtain Council authority before executing the construction contract for this project.

It is possible that additional federal dollars would be available annually and, if awarded to the City, could reduce the amount of the MICLA budget for this project. The City's financial exposure and need for MICLA funding may also be reduced if the City is awarded federal monies that are unspent by other jurisdictions. These additional federal monies are known as Additional Obligation Authority (OA) and the amount available annually ranges from \$20 million

to \$200 million statewide. This year, the amount of OA available for the SSBRP may be as high as \$95 million and may be granted to the City if all our environmental documents are completed by August 2010.

In order for the SSVIP to move forward, Caltrans has requested that the City's governing body approve the use of local AC and the funding source, such as MICLA, as a cash flow source for the yearly project expenses that exceed the federal and state annual reimbursements. The City would assume responsibility for the project costs until all yearly state and federal allocations have been disbursed. As the project progresses, project budget authority responsibility shifts from the City to the federal funding until the federal and state monies fully fund the project. Other jurisdictions such as San Francisco, San Diego and Long Beach also have large-scale bridge replacement projects that are being constructed through the AC process.

MICLA Authority

As stated above, by approving the financial plan, the City is committing to cash flow project expenditures until annual federal and state reimbursements are available. The cash flow mechanism proposed is the issuance of up to \$72.4 million in MICLA over the life of the project. This MICLA issuance falls into the City's 7.5 percent ceiling debt category because the issuance has dedicated funding repayment sources. The City has sufficient capacity within this category to proceed with the issuance. This MICLA issuance will not affect the City's self-imposed five percent ceiling on non-voter approved debt because, as noted above, the City's expenses related to the MICLA are allowable federal and state grant expenditures. It is estimated that, over the next six years, interest costs of \$14 million will be financed by the General Fund and later reimbursed by the federal and state funding sources.

It is recognized that the MICLA requirement for this project is a significant commitment from the City. While there are a number of other capital projects that have been deferred because MICLA funding for these projects was suspended, the SSVIP is a high priority project with only a small portion of local funding required. It is important to note that the deferred capital projects were subject to the City's six percent ceiling on non-voter approved debt, which created additional General Fund debt. The MICLA authority recommended for this project will not be a long-term General Fund obligation.

BOE and their financial consultant prepared the following chart that shows annual anticipated project expenses, planned federal and state reimbursements, MICLA cash flow required and projected MICLA repayments:

Fiscal Year	Anticipated Expenses	Available Reimbursements	MICLA Cashflow Required	MICLA Payback
Prior yrs	\$ 15.3	\$ 15.3	\$ 0.0	\$ 0.0
2011	\$ 41.0	\$ 27.6	\$ 13.4	\$ 0.0
2012	\$ 29.0	\$ 27.6	\$ 1.4	\$ 0.0
2013	\$ 21.8	\$ 22.6	\$ 0.0	\$ 0.8
2014	\$ 89.9	\$ 73.4	\$ 30.6	\$ 14.1
2015	\$ 75.0	\$ 56.5	\$ 18.5	\$ 0.0
2016	\$ 65.0	\$ 56.5	\$ 8.5	\$ 0.0
2017	\$ 11.2	\$ 56.5	\$ 0.0	\$ 45.3
2018	\$ 11.1	\$ 23.3	\$ 0.0	\$ 12.2
Total	\$ 359.3	\$ 359.3	\$ 72.4	\$ 72.4

The tentative MICLA drawdown schedule assumes MICLA is used to fund project invoices and that federal and state reimbursements are processed and received within four months. The reimbursements would then be used to cash flow subsequent project invoices on a revolving basis until the annual federal and state reimbursement limits are reached. Once the annual reimbursements are exhausted, the City would use MICLA to cover additional invoices until the beginning of the next federal and state fiscal year when new annual allocations would be available.

RECOMMENDATIONS:

That the Council, subject to the approval of the Mayor:

1. AUTHORIZE the City Engineer to execute and submit an Advanced Construction Process financial plan for the Sixth Street Viaduct Improvement Project to the appropriate federal and state authorities for approval;
2. AUTHORIZE the issuance of up to \$72.4 million in MICLA financing to cash flow the Sixth Street Bridge Project with the understanding that all of the City's costs related to this financing will be fully reimbursable from federal and state grants;
3. INSTRUCT the City Engineer to provide monthly updates on the status of this project to the Seismic Governance Committee and require a specific authorizing action by the City Council before each phase of the project is undertaken and prior to the award of the construction contract for this project.

FISCAL IMPACT

Use of \$72.4 million in MICLA funding will require that the General Fund initially cash flow the interest costs associated with this transaction. The anticipated interest cost of \$14 million is included in the total estimated cost of the project of \$359.3 million. The project's federal and state grant funding sources will fully reimburse the City for these MICLA costs. In the unlikely event that a new federal transportation bill is not approved, the City would be responsible for either completing or canceling the project. We recommend that the City Engineer obtain City Council authority to award the construction contract for this project so that we can be assured that a new Federal surface transportation bill has been authorized by Congress by the construction award date.

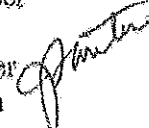
Attachments:

6th Street Viaduct Seismic Improvement Project Initial Financial Plan
Bureau of Engineering Report-Authority to Issue Financing for the Replacement of the 6th
Street Viaduct over the Los Angeles River-dated May 27, 2010.

CITY OF LOS ANGELES
INTER-DEPARTMENTAL CORRESPONDENCE

Date: May 27, 2010

To: Seismic Governance Committee
Ray Ciranna, Interim City Administrative Officer, Chair
Gerry F. Miller, Chief Legislative Analyst
Gary Lee Moore, City Engineer

From: Julie Sauter, Program Manager 
Bridge Improvement Program
Bureau of Engineering

Subject: 6th Street Viaduct Seismic Improvement Project – Financial Plan and Recommendations for Project Financing

AUTHORITY TO ISSUE FINANCING FOR THE REPLACEMENT OF THE 6TH STREET VIADUCT OVER THE LOS ANGELES RIVER (BRIDGE NO. 53C-1880) AND THE 6TH STREET OVERCROSSING, WHICH IS A PORTION OF THE US 101 HOLLYWOOD FREEWAY (BRIDGE NO. 53-0595).

RECOMMENDATIONS

That the Seismic Governance Committee approve and recommend that the City Council:

1. Authorize up to \$72.4 million of MICLA short term bonds to cover the anticipated cumulative annual federal and state funding allocation shortfalls for the project. The principle of these bonds as well as the issuance and interest costs, estimated at \$14.0 million will be reimbursed by federal Highway Bridge Program (HBP) funds, matched by state Proposition 1B Local Bridge Seismic Retrofit Account (LBSRA) funds;
2. Approve the Advanced Construction funding plan shown in Table 1, "Project Funding Plan with Advanced Construction Authority by Phase". This table shows how Caltrans will approve funding for each phase of the project (i.e. ROW or Construction) and then allocate future years' funding through an "Advanced Construction Authority" mechanism. This authority also allows the City to qualify for the reimbursement of bond costs.

DISCUSSION

Background

The Sixth Street Viaduct Seismic Improvement Project is funded with state and federal funds, with a local City of Los Angeles match. The total project cost is estimated at \$359.3 million, which includes financing costs. The City is contributing \$4 million of the total project cost as

Seismic Governance Committee Report
 6th Street Viaduct Seismic Improvement Project
 May 20, 2010

local match. The funding plan has been incorporated into the project's required Financial Plan¹. The Financial Plan needs to be submitted before the project secures its environmental Record of Decision, anticipated in October 2010. Caltrans has approved the total funding for the project with federal HBP funds matched by state Proposition 1B LBSRA funds. These funds are stretched out over a longer time period than the project's cash flow requires. Therefore, the City will need to finance a portion of the cash flow to keep the project on schedule.

Funding Plan

The following charts show the project costs and the funding plan. These assumptions, including the need to finance the cash flow, as described in the next section, are included in the Project's Financial Plan.

Chart 1: Project Costs

PROJECT PHASE	COST (escalated)
PA & ED (Project Approval and Environmental Doc)	\$ 15,316,356
Final Design (Plans, Spec. & Estimates)	10,000,000
ROW (Right of Way)	81,833,000
Financing Costs	2,890,395
Detour and Demo of Existing Viaduct	12,548,466
Reconstruction of Viaduct	210,506,290
CE (Construction Support)	15,145,000
Financing Costs	11,086,247
Total Project Cost	\$ 359,325,754

¹ The Draft Financial Plan for the Sixth Street Viaduct Seismic Improvement Project has been prepared in accordance with federal requirements and consistent with FHWA Financial Plan Guidance. Federal Highway Administration (FHWA) issued a Memorandum "Project Financial Plan Requirements under SAFETEA-LU" which directed every state Department of Transportation (DOT) and public agency receiving federal highway funds to prepare Project Financial Plans for projects between \$100 and \$500 million in accordance with the FHWA Financial Plan Guidance issued May 2000 and updated on January 2007. This plan must be accepted by Caltrans before the project's environmental plan can be certified.

Chart 2: Project Funding Plan

Fund No.	Fund Title	Dept. No.	Acc't. No.	Total
	Federal Highway Bridge Program (HBP) Funds			\$ 304.4 million
	State Proposition 1B Bridge Seismic (LBSRA) Funds			\$ 36.7 million
	City Matching Funds – Prop. C Line Item, CIEP and Prop. G Seismic Bond			\$ 4.0 million
	Other State Funds			\$ 0.2 million
	Reimbursement of Bond Financing Costs (Federal HBP with State Prop 1B LBSRA match)			\$ 14.0 million
	Total, Funding			\$ 359.3 million

Financing Needs

The following sections discuss:

- The federal and state funding allocation shortfalls and how they would be mitigated with MICLA bonds;
- A way to accelerate state and federal funding and thereby reduce MICLA bonds needs;
- The monthly invoice reimbursement assumptions; and
- Advanced Construction Authority (AC).

Federal and State Funding Allocation Shortfalls and Need for MICLA Bonds: Caltrans has agreed to program full funding for the 6th Street Viaduct Project, but stretched out over a longer time period. This allocation plan does not fit the Project's cash flow needs but fully funds the project over time. In order to keep the Project on schedule, the City would need to issue bonds (i.e. MICLA) in the early years of the project and be paid back by the federal and state funds in the later years of the project.

The federal guidelines allow the federal HBP grant, matched by Proposition 1B funds, to pay back the bonds proceeds as well as the issuance and interest costs.²

² States and public agencies can now receive Federal-aid reimbursements for a wide array of debt-related costs incurred in connection with an eligible debt financing instrument, such as a bond, note, certificate, mortgage, or lease, the proceeds of which are used to fund a project eligible for assistance under Title 23. The issuer may be a state, political subdivision, or a public authority.

Seismic Governance Committee Report
6th Street Viaduct Seismic Improvement Project
May 20, 2010

The \$72.4 million the City will need in MICLA bonds is the gap between the required funding and the yearly reimbursement as follows and shown in Chart 4:

- The annual gaps in funding are projected to be \$13.4 million in 2011, \$1.4 million in 2012, \$30.6 million in 2014, \$18.5 in 2015 and \$8.5 million in 2016, for a total of \$72.4 million.
- The projected payback would be \$0.7 million in 2013, \$14 million in 2014, \$45.4 million in 2017 and \$12.2 million in 2018, for a total of \$72.4 million.

Chart 5 shows when the MICLA bonds would be used and the assumed interest costs that would be reimbursed. For this analysis, 5% interest costs, or a total of \$14 million, were conservatively assumed for MICLA bonds. The actual interest and issuance costs would be reimbursed by state (Prop. 1B) and federal (HBP) funds.

Ability to Accelerate Funds from Caltrans: Caltrans has restricted the funding each year to the amounts listed in Table 2. But, each year, the City has potential to request additional funds that other jurisdictions are unable to use. The overall state and federal funding for the 6th Street Viaduct project would not increase, but the amounts per year could be accelerated. If the City successfully petitioned and received these funds, then the City could potentially reduce the amount of MICLA funding it would need to borrow. The City will still need the authority for the \$72 million of MICLA bonds and will monitor the actual cash needs on a quarterly basis.

Monthly Invoice Reimbursement Delays: For the funds that will be available each year according to Caltrans, staff has conservatively assumed that the reimbursement of monthly invoices will be delayed by four months each during the Right-of-Way (ROW) phase and three months each during the Construction phase. The Public Works Trust Fund will be used, up to a maximum balance at any time of \$10 million, to cover any potential delays in invoice reimbursements.

Advanced Construction Authority (AC): Table 1 shows how all of the funding is authorized by Caltrans on a phase by phase (ROW, construction, etc.) basis. It also reflects how the 6th Street Viaduct project is listed in the Federal Transportation Improvement Program (FTIP).

At the time of the authorization for each phase, Caltrans will allocate the first year's funding and then show the subsequent years' funding as "Advanced Construction Authority" or "AC". Caltrans then allocates funds on a year by year basis until all funds are allocated.

Advanced Construction Authority (AC) is a way for Caltrans to program the full, multiyear funding commitments for the project while allocating funds on a year to year basis. It does not

This change to the Federal-aid program was codified into permanent highway law as an amendment to Section 122 of Title 23 U.S.C. Bond-related costs now eligible for Federal-aid reimbursement include interest payments, retirement of principal, and any other cost incidental to the sale of an eligible bond issue.

The FHWA guidance states that the project must be approved as a Federal-aid debt-financed (bond, certificate, note, or other debt instrument) project in order to receive payments for eligible debt-related costs under section 122. With the approval of the 6th St. Financial Plan, Caltrans will approve the project as a Federal-aid debt-financed project.

Seismic Governance Committee Report
6th Street Viaduct Seismic Improvement Project
May 20, 2010

require more City MICLA funds nor does it change the funding plan in Table 2. This authority does allow the City to qualify for the reimbursement of any MICLA bond issuance and interest costs.

In the unlikely event that the state or federal government would no longer have a transportation funding program, then Caltrans could not allocate the future years' funding for the project. In that case, the City would have the option to defer or cancel the project.

Timeline

The Finance Plan, which includes the assumptions for financing, must be submitted to and accepted by Caltrans prior to the certification of the 6th Street Viaduct Project environmental document, anticipated in October 2010. The Draft Financial Plan has been submitted to Caltrans for their review and Caltrans has prepared a draft approval letter. The Caltrans approval letter will be finalized once the City approves the recommendations in this report for financing and Advanced Construction Authority.

Attachments:

Attachment A:

- Table 1, Project Funding Plan with Advanced Construction Authority by Phase
- Table 2, Summary of cash flow and financing needs – costs and funding by fiscal year.
- Table 3, Right-of-Way financing needs
- Table 4, Construction financing needs

Attachment B:

- 6th Street Viaduct Seismic Improvement Project Fact Sheet

c: Councilmember Jose Huizar
A. Cubas / P. Habib – CD14
J. Koo / D. Weintraub – BOE
J. Gibson / P. Smith – CLA
M. Cardenas / L. Hancock – CAO

Chart 4: Annual Funding Shortfalls and Reimbursement Schedule

Annual Funding Shortfalls and Reimbursements (\$ in 000's)									
Fiscal Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	Total
Shortfalls	\$ (13,401)	\$ (1,401)		\$ (30,551)	\$ (18,503)	\$ (8,503)			\$ (72,359)
Reimbursements			\$ 766	\$ 14,036			\$ 45,346	\$ 12,211	\$ 72,359

Chart 5: Recommended City of LA Financing to Keep 6th Street Viaduct Project on Schedule

Recommended City of LA Financing by Project Phase (\$ in 000's)									
Project Phase	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	Total
ROW									
MICLA Bond Issue (July)	\$ 13,401								\$ 13,401
Interest Costs	670	670	670	670	-	-	-	-	2,680
MICLA Bond Issue (July)		1,401							1,401
Interest Costs		70	70	70	-	-	-	-	210
Total Bond Proceeds-ROW	13,401	1,401	-	-	-	-	-	-	14,802
Total Interest Costs-ROW	670	740	740	740	-	-	-	-	2,890
Construction									
MICLA Bond Issue (July)				30,551					30,551
Interest Costs				1,528	1,528	1,528	1,528	-	6,110
MICLA Bond Issue (July)					18,503				18,503
Interest Costs					925	925	925	925	3,701
MICLA Bond Issue (July)						8,503			8,503
Interest Costs						425	425	425	1,275
Total Bond Proceeds-CON	-	-	-	30,551	18,503	8,503	-	-	57,557
Total Interest Costs-CON	-	-	-	1,528	2,453	2,878	2,878	1,350	11,086
ROW and Construction									
Total Bond Proceeds	\$ 13,401	\$ 1,401	\$ -	\$ 30,551	\$ 18,503	\$ 8,503	\$ -	\$ -	\$ 72,359
Total Interest Costs	\$ 670	\$ 740	\$ 740	\$ 2,268	\$ 2,453	\$ 2,878	\$ 2,878	\$ 1,350	\$ 13,977

Table 1: Programmed Costs and Funding Sources

Phase Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
PE	\$ 16,000,000	\$ 9,316,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,316,356
ROW	-	-	-	84,723,395	-	-	-	-	84,723,395
Construction and CE	-	-	-	-	-	-	249,286,003	-	249,286,003
Total	\$ 16,000,000	\$ 9,316,356	\$ -	\$ 84,723,395	\$ -	\$ -	\$ 249,286,003	\$ -	\$ 359,325,754
Fund Source Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
Fed \$	\$ 12,000,000	\$ 7,453,085	\$(8,000,000)	\$ 28,853,000	\$ 20,000,000	\$ 20,000,000	\$ 65,005,622	\$ 170,692,893	\$ 316,804,605
Local Match	3,200,000	1,853,271	(853,000)	7,126,561	(2,591,212)	(2,591,212)	20,478,308	(22,115,075)	4,210,271
LSSRP Bond	-	-	-	2,591,212	2,591,212	2,591,212	8,422,167	22,115,075	38,310,378
Local AC	-	-	8,853,000	45,152,522	(20,000,000)	(20,000,000)	155,687,276	(170,692,893)	-
Total	\$ 16,000,000	\$ 9,316,356	\$ -	\$ 84,723,395	\$ -	\$ -	\$ 249,286,003	\$ -	\$ 359,325,754
PE Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
Fed \$	\$ 12,000,000	\$ 7,453,085	\$(8,000,000)	\$ 8,853,000	-	-	-	-	\$ 21,106,085
Local Match	3,200,000	1,853,271	(853,000)	-	-	-	-	-	4,210,271
LSSRP Bond	-	-	-	-	-	-	-	-	-
Local AC	-	-	8,853,000	(8,853,000)	-	-	-	-	-
Total	\$ 16,000,000	\$ 9,316,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,316,356
ROW Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
Fed \$	-	-	-	\$ 20,000,000	\$ 20,000,000	\$ 20,000,000	\$ 15,005,622	-	\$ 75,005,622
Local Match	-	-	-	7,126,561	(2,591,212)	(2,591,212)	(1,944,137)	-	-
LSSRP Bond	-	-	-	2,591,212	2,591,212	2,591,212	1,944,137	-	9,717,773
Local AC	-	-	-	55,005,622	(20,000,000)	(20,000,000)	(15,005,622)	-	-
Total	\$ -	\$ -	\$ -	\$ 84,723,395	\$ -	\$ -	\$ -	\$ -	\$ 84,723,395
Construction Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
Fed \$	-	-	-	-	-	-	\$ 50,000,000	\$ 170,692,893	\$ 220,692,893
Local Match	-	-	-	-	-	-	22,115,075	(22,115,075)	-
LSSRP Bond	-	-	-	-	-	-	6,478,030	22,115,075	28,593,105
Local AC	-	-	-	-	-	-	170,692,893	(170,692,893)	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 249,286,003	\$ -	\$ 249,286,003

Local AC: Local Advanced Construction Authority

Data replicated from Caltrans summary of 2008-2013/14 Highway Bridge Program, dated 3/24/2010.

This chart is the Caltrans Federal Transportation Improvement Program (FTIP) listing for this project.

Attachment A

6th Street Viaduct Project Financial Charts

Table 2: 6th Street Viaduct Project Cash Flow and Financing Requirements

PHASE	Fiscal Year											Total	
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18		
PA/ED (Proj Approval and Envir Doc)	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,316,356
Final Design (PS&E)	-	-	-	5,000,000	5,000,000	-	-	-	-	-	-	-	10,000,000
<i>Subtotal, PA/ED and PS&E --></i>	<i>8,438,785</i>	<i>2,763,245</i>	<i>4,114,326</i>	<i>5,000,000</i>	<i>5,000,000</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>25,316,356</i>
ROW (Right of Way)	-	-	-	35,000,000	24,000,000	21,833,000	-	-	-	-	-	-	81,833,000
ROW Financing Costs	-	-	-	-	-	-	2,890,395	-	-	-	-	-	2,890,395
<i>Subtotal, ROW --></i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>35,000,000</i>	<i>24,000,000</i>	<i>21,833,000</i>	<i>2,890,395</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>84,723,395</i>
CONSTRUCTION COST (CON)	-	-	-	-	-	-	12,541,466	-	-	-	-	-	12,541,466
Detour and Demo of Existing Viaduct	-	-	-	-	-	-	70,000,000	70,000,000	60,000,000	10,895,290	-	-	210,505,290
Reconstruction of Viaduct	-	-	-	-	-	-	4,600,000	5,000,000	5,000,000	645,000	-	-	15,145,000
CE (Construction Support)	-	-	-	-	-	-	-	-	-	-	11,086,247	-	11,086,247
Construction Financing Costs	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal, Construction and CE --></i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>87,048,466</i>	<i>75,000,000</i>	<i>65,000,000</i>	<i>11,541,290</i>	<i>11,086,247</i>	<i>-</i>	<i>249,286,003</i>
Total Project & Financing Costs	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ 41,000,000	\$ 29,000,000	\$ 21,833,000	\$ 89,936,861	\$ 75,000,000	\$ 65,000,000	\$ 11,151,290	\$ 11,086,247	\$ -	\$ 359,325,754
FUNDING	Fiscal Year											Total	
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18		
Highway Bridge Program (HBP) - PA/ED/PS&E	\$ 6,751,828	\$ 2,240,596	\$ 3,291,461	\$ 4,426,500	\$ 4,426,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,106,885
Highway Bridge Program (HBP) - ROW	-	-	-	20,000,000	20,000,000	20,000,000	12,446,755	-	-	-	-	-	72,446,755
Highway Bridge Program (HBP) - Construction	-	-	-	-	-	-	50,000,000	50,000,000	50,000,000	30,000,000	10,876,244	-	210,876,244
Highway Bridge Program (HBP) - Financing Costs	-	-	-	-	-	-	2,598,857	-	-	-	-	-	9,814,654
<i>Subtotal, HBP Funds --></i>	<i>6,751,828</i>	<i>2,240,596</i>	<i>3,291,461</i>	<i>24,426,500</i>	<i>24,426,500</i>	<i>20,000,000</i>	<i>65,005,622</i>	<i>50,000,000</i>	<i>50,000,000</i>	<i>30,000,000</i>	<i>20,682,898</i>	<i>-</i>	<i>316,804,605</i>
Prop 1B Local Bridge Seismic Retrofit- ROW	-	-	-	2,598,870	2,598,870	2,598,870	1,945,504	-	-	-	-	-	9,642,115
Prop. 1B Local Bridge Seismic Retrofit- Const	-	-	-	-	-	-	6,341,306	6,497,175	6,497,175	6,497,175	1,332,811	-	27,065,643
Prop 1B Local Bridge Seismic Retrofit- Financing Costs	-	-	-	-	-	-	331,528	-	-	-	-	-	1,663,121
<i>Subtotal, Prop 1B Funds --></i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2,598,870</i>	<i>2,598,870</i>	<i>2,598,870</i>	<i>8,418,339</i>	<i>6,497,175</i>	<i>6,497,175</i>	<i>6,497,175</i>	<i>2,604,404</i>	<i>-</i>	<i>38,310,878</i>
Other State Funds	200,000	-	-	-	-	-	-	-	-	-	-	-	200,000
City Matching Funds	1,487,757	550,649	822,865	573,500	573,500	-	-	-	-	-	-	-	4,010,271
Total Funding	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ 27,598,870	\$ 27,598,870	\$ 22,598,870	\$ 73,423,961	\$ 56,497,175	\$ 56,497,175	\$ 56,497,175	\$ 23,297,302	\$ -	\$ 359,325,754
Local Bonds	-	-	-	13,401,130	1,401,130	-	30,551,291	18,502,825	8,502,825	-	-	-	72,359,200
Payback of Local Bonds	-	-	-	-	-	-	765,870	14,036,350	-	-	45,345,865	12,211,655	72,259,200
Cumulative Balance	\$ -	\$ -	\$ -	\$ 13,401,130	\$ 14,802,260	\$ 14,036,390	\$ 30,551,291	\$ 49,054,136	\$ 57,556,941	\$ 22,311,056	\$ -	\$ 1	\$ 1
Project Costs	8,438,785	2,763,245	4,114,326	41,000,000	29,000,000	21,833,000	87,048,466	75,000,000	65,000,000	11,151,290	-	-	345,349,112
Financing Costs-Interest Only*	-	-	-	-	-	-	2,890,395	-	-	-	11,086,247	-	13,976,642
Total Project & Financing Costs	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ 41,000,000	\$ 29,000,000	\$ 21,833,000	\$ 89,936,861	\$ 75,000,000	\$ 65,000,000	\$ 11,151,290	\$ 11,086,247	\$ -	\$ 359,325,754

* Financing costs (interest and issuance costs) from local bonds financing will be reimbursed by HBP funds, matched by Prop. 1B funds; assumes 5% APR (issuance costs not calculated but actual costs would be reimbursed).

Table 2: Fish Street Viaduct Project Cash Flow and Financing Requirements - ROW
 Reimbursement Runaround Scenario: 4-Months

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Invoice Period	Project Cost Allocated	Project Cost Annual	MICLA Interest Cost City	MICLA Interest Cost Annual	MICLA Interest Cost Monthly	Total Project & MICLA Interest Cost Annual	MICLA Interest Cost Monthly	MICLA Payback	MIP/Prop 1B Reimbursement Monthly	Project Costs Balance	PIVIT Loan Balance	
1	Oct-2010 \$ 3,000,000											
2	Nov-2010 3,000,000											
3	Dec-2010 3,000,000											
4	Jan-2011 3,000,000	Start ROW	187,514									
5	Feb-2011 3,000,000											
6	Mar-2011 3,000,000											
7	Apr-2011 3,000,000											
8	May-2011 3,000,000											
9	Jun-2011 3,000,000											
10	Jul-2011 3,000,000											
11	Aug-2011 3,000,000											
12	Sep-2011 3,000,000	35,000,000	187,514	570,056	3,167,514	38,670,026	3,167,514		4,883,672	3,854,746	370,826	
13	Oct-2011 2,000,000											
14	Nov-2011 2,000,000											
15	Dec-2011 2,000,000											
16	Jan-2012 2,000,000											
17	Feb-2012 2,000,000											
18	Mar-2012 2,000,000											
19	Apr-2012 2,000,000											
20	May-2012 2,000,000											
21	Jun-2012 2,000,000											
22	Jul-2012 2,000,000											
23	Aug-2012 2,000,000											
24	Sep-2012 2,000,000	24,000,000	185,028	740,113	2,185,028	24,740,113	2,185,028		10,627,451	8,767,815	1,410,869	
25	Oct-2012 1,819,417											
26	Nov-2012 1,819,417											
27	Dec-2012 1,819,417											
28	Jan-2013 1,819,417											
29	Feb-2013 1,819,417											
30	Mar-2013 1,819,417											
31	Apr-2013 1,819,417											
32	May-2013 1,819,417											
33	Jun-2013 1,819,417											
34	Jul-2013 1,819,417											
35	Aug-2013 1,819,417											
36	Sep-2013 1,819,417	21,833,000	185,028	740,113	2,185,028	22,578,113	2,185,028	5785,570	2,004,445	2,456,446	2,156,262	
37	Oct-2013											
38	Nov-2013											
39	Dec-2013											
40	Jan-2014											
41	Feb-2014											
42	Mar-2014											
43	Apr-2014											
44	May-2014											
45	Jun-2014											
46	Jul-2014											
47	Aug-2014											
48	Sep-2014											
49	Oct-2014											
50	Nov-2014											
51	Dec-2014											
52	Jan-2015											
53	Feb-2015											
54	Mar-2015											
TOTAL \$ 61,633,000 \$ 81,633,000 \$ 2,890,385 \$ 2,890,385 \$ 84,723,385 \$ 84,723,385 \$ 14,902,260 \$ 14,902,260 \$												

0/A

0/A

Attachment B

6th Street Viaduct Project Fact Sheet

City of Los Angeles 6th Street Viaduct Seismic Improvement Project

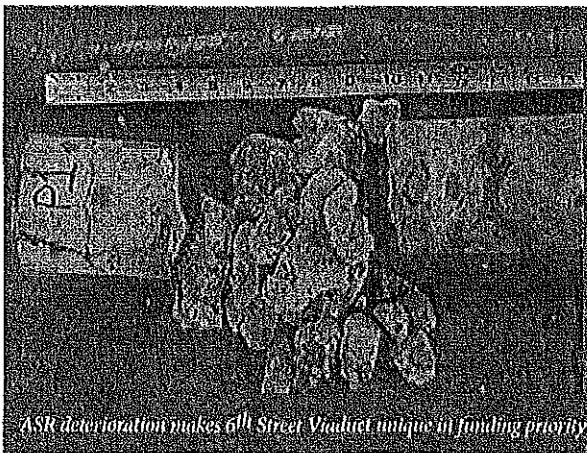


PROJECT LOCATION/DESCRIPTION

- Located in a highly urbanized area just east of Downtown Los Angeles.
- Spans (Project length approximately 1 mile)
 - Hollywood Freeway (US 101)
 - Los Angeles River
 - Union Pacific, Metrolink and future California High Speed Rail
 - Local streets

FUNDING SOURCE	TOTAL (millions)
Federal Highway Bridge Program (HBP) Funds*	\$316.7
Prop. 1B Local Bridge Seismic (LBSRA) Funds*	38.4
Other State Funds	0.2
City Matching Funds	4.0
PROJECT FUNDING TOTAL	\$359.3

* includes reimbursement of City financing costs



ASR deterioration makes 6th Street Viaduct unique in funding priority

COMMITMENT OF FUNDING ENSURES SEISMIC SAFETY

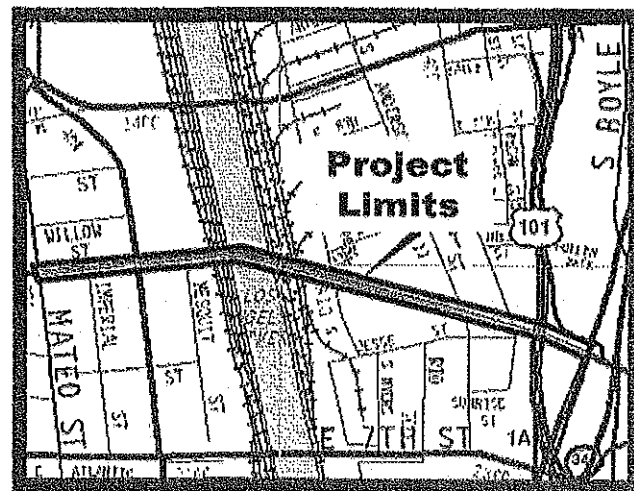
- The project costs have increased by \$104.6 million
- Factors for cost increase:
 - Public input on maintaining the signature nature of the existing bridge
 - Increased right-of-way needs

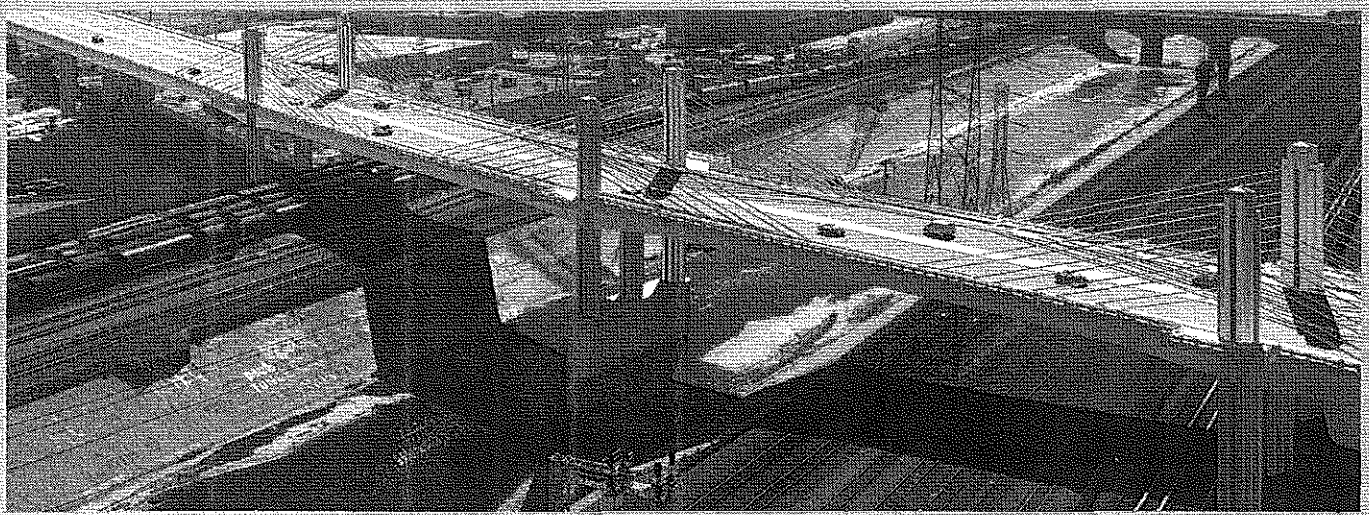
PROJECT SCHEDULE IS "COMPETING AGAINST TIME"

Construction Start December 2013
Construction Completion December 2016

FUNDING IS CRITICAL FOR SEISMIC SAFETY

- Viaduct was built in 1932, one of the oldest on system.
- Prop 1B project located in the highest population zone.
- Longest most complex right-of-way Prop 1B project.
- One of the most seismic vulnerable not retrofitted or replaced.
 - 70% probability of failure for a design level earth quake within 50 year and the probability increases every year!
 - Severe concrete deterioration from Alkali Silica Reactivity (ASR) continues to weaken the structure!
 - Collapse due to seismic vulnerabilities or ASR deterioration will have a major impact on transportation corridors!
- Roadway geometric deficiencies contribute to on-going traffic accidents.





6th Street Viaduct Seismic Improvement Project

City of Los Angeles, Los Angeles County, California

DISTRICT 7 - Bridge Nos. 53C-1880 and 53-0595

Federal Project No.:

BRLSZD 5006 (342-664)

INITIAL FINANCIAL PLAN

Prepared by the
City of Los Angeles
July 2010

TABLE OF CONTENTS

	<u>Page</u>
1. BACKGROUND	1
ADHERENCE TO FEDERAL FINANCIAL PLAN GUIDANCE	2
PROJECT DESCRIPTION	2
PURPOSE AND NEED	3
PROJECT MILESTONE DATES	3
2. COST ESTIMATE	4
COST ESTIMATE BY CONSTRUCTION SEGMENT	5
PROJECT CONSTRUCTION TYPE	6
COST ESTIMATE BY MAJOR PROJECT ELEMENT	7
3. IMPLEMENTATION PLAN	8
4. PROJECT FINANCING AND REVENUES	10
OVERALL FINANCIAL PLAN	10
DESCRIPTION OF FUNDING SOURCES	11
5. CASH FLOW AND CONTINGENCY FUND	13
6. RISK IDENTIFICATION AND MITIGATION FACTORS	14
INDEPENDENT VERIFICATION OF COST ESTIMATE	17
SCOPE AND SUMMARY OF INDEPENDENT VERIFICATION OF COST ESTIMATES	17
APPENDIX A - FINANCIAL CHARTS	19
APPENDIX B - RISK ANALYSIS SUMMARY	28
APPENDIX C - CHECKLIST FOR FINANCIAL PLAN COMPONENTS	37

FIGURES

Figure 1, Project Location Map	1
Figure 2, Percent Increase From 2007	5
Figure 3, Yearly/Cumulative Escalation Rate From 2007	5
Figure 4, Agency / Permit / Approval	8
Figure 5, Project Timeline	9
Figure 6, Funding Sources In \$ Millions	10
Figure 7, Annual and Cumulative Funding Requirements In \$ Millions	13
Figure 8, Major Risk Types (\$M)	15
Figure 9, Major Risk Strategies (\$M)	16
Figure 10, Independent Verification of Costs Summary (\$'s)	17
Figure 11, Bridge Concepts	18

TABLES

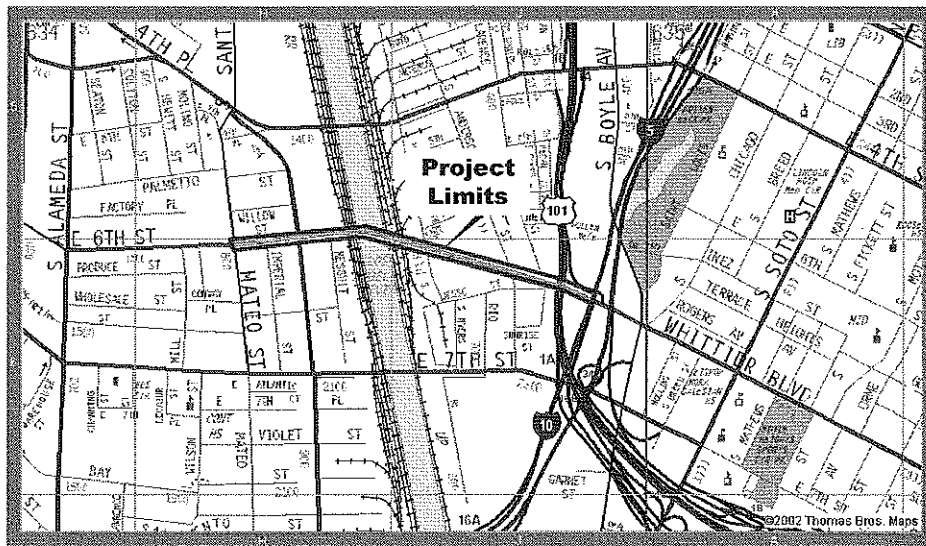
TABLE 1 - ESTIMATED COSTS BY MAJOR PROJECT ELEMENT	7
TABLE 2 - PROJECT EXPENDITURES, BY PROJECT PHASE	20
TABLE 3 - FUNDING SOURCE BY PROJECT PHASE	21
TABLE 4 - PROGRAMMED COSTS AND FUNDING SOURCES	22
TABLE 5 - CASH FLOW FINANCING: ALL PHASES	23
TABLE 5A - CASH FLOW FINANCING: PA-ED PHASE	24
TABLE 5B - CASH FLOW FINANCING: FINAL DESIGN PHASE	25
TABLE 5C - CASH FLOW FINANCING: ROW PHASE	26
TABLE 5D - CASH FLOW FINANCING: CONSTRUCTION AND CE PHASE	27

1. BACKGROUND

On December 8, 2005, the Federal Highway Administration (FHWA) issued a Memorandum "Project Financial Plan Requirements under SAFETEA-LU" which directed every state Department of Transportation (DOT) to prepare Project Financial Plans for projects between \$100 and \$500 million in accordance with the FHWA Financial Plan Guidance issued May 2000 and updated on January 2007.

This document will provide detailed construction and support cost, schedule and revenue projections for the \$359.3 million bridge viaduct project located in downtown Los Angeles.

Plan Update Schedule: The Initial Financial Plan for the Sixth Street Viaduct Seismic Improvement Project has been prepared in accordance with the FHWA guidance. The Final Financial Plan will be prepared prior to the request for federal construction funds. The Plan will be updated annually effective October 1, 2011 and every year thereafter and whenever there is a significant change to the project scope and/or budget.



Thomas Bros Map
Los Angeles County Page 634, Grid H-6

Figure 1, Project Location Map

Adherence to Federal Financial Plan Guidance

This Plan has been prepared in accordance with the requirements of Section 106, Title 23, and the Initial Financial Plan guidance issued by the Federal Highway Administration. The plan provides detailed cost estimates to complete the project and the estimates of financial resources to be utilized to fully finance the project. The federal guidance Attachment C checklist is attached as Appendix C of this report.

The cost data in the Initial Financial Plan provide an accurate accounting of costs incurred to date and include a realistic estimate of future costs based on engineers' estimates and expected construction cost escalation factors. While the estimates of financial resources rely upon assumptions regarding future economic conditions and demographic variables, they represent realistic, estimates of available monies to fully fund the project.

We believe the Initial Financial Plan provides an accurate basis upon which to schedule and fund the 6th Street Seismic Safety Improvement Project. The City of Los Angeles will prepare a final Financial Plan in advance of the construction phase and will review and update the Financial Plan on an annual basis, beginning the year following the final Financial Plan.

To the best of our knowledge and belief, the Initial Financial Plan as submitted herewith, fairly and accurately presents the financial position of the 6th Street Seismic Safety Improvement Project cash flows and expected conditions for the project's life cycle. The financial forecasts in the Initial Financial Plan are based on our judgment of the expected project conditions and our expected course of action.

We believe that the assumptions underlying the Initial Financial Plan are reasonable and appropriate. Further, we have made available all significant information that we believe is relevant to the Initial Financial Plan and, to the best of our knowledge and belief, the documents and records supporting the assumptions are appropriate.

Project Description

The California Department of Transportation (Caltrans) and the City of Los Angeles (City) propose to undertake the replacement of the 6th Street Viaduct over the Los Angeles River (Bridge No. 53C-1880) and the 6th Street Overcrossing, which is a portion of the US 101 Hollywood Freeway (Bridge No. 53-0595).

The 6th Street Viaduct and 6th Street Overcrossing comprise a single structure that spans a portion of the Hollywood Freeway (US 101), the Los Angeles River, city streets, and Union Pacific and Metrolink railroad tracks. The structure is located in a highly urbanized area just east of Downtown Los Angeles and connects Downtown Los Angeles on the west side of the river with the Boyle Heights community on the east side of the river.

An approximate 3,264-ft-long segment of the viaduct is owned by the City, and the 235-ft-long portion overcrossing US 101 is owned by Caltrans.

Purpose and Need

The purpose of the proposed project is to:

- Preserve 6th Street as a viable east-west link between Boyle Heights and Downtown Los Angeles;
- Reduce vulnerability of the 6th Street Viaduct in major earthquake events; and
- Resolve design deficiencies of the 6th Street Viaduct.

The 6th Street Viaduct was built in 1932. It is one of the oldest bridge structures in the state and spans more than 3500 feet. It is one of the longest bridges on the Prop 1B Seismic Match list in the highest population zone.

The 6th Street Bridge is one of the most vulnerable, locally owned bridges in California. Not only is it listed on Caltrans' mandatory seismic retrofit list, analyses performed indicate that this bridge has a 70% probability of failure for a design level earthquake within the next 50 years and the probability increases every year.

Closure or collapse of this structure would have a major impact on transportation corridors.

The 6th Street Viaduct suffers from a condition known as ASR (Alkali Silica Reactivity) which is essentially a concrete "cancer" that over time weakens concrete's strength and limits the ability to retrofit the bridge to current standards. There are no known methods to reverse or stop the ASR attack to the existing structure. Laboratory testing indicates that deterioration due to ASR will continue, furthering the structure's vulnerability to collapse in a seismic event.

The city proposes to replace the structure to address the deficiencies stated above.

Project Milestone Dates

The following activities have been completed on this project:

- Seismic Strategy Study
- Materials Study to characterize the ASR
- Technical Studies in Support of the Environmental Document
- Alignment Alternative evaluation including screening study
- Alternative Bridge Type evaluation including screening study
- Community outreach activities
- Bridge Advance Planning Study
- Preliminary ROW Relocation Report
- Preliminary Geotechnical and Foundation Report
- Preliminary Hazardous Materials Study
- Preliminary Roadway Design
- Administrative Draft EIR/EIS document

The following are the project milestone dates based on design sequencing method of delivery:

- Project Approval and Environmental Document (PA&ED) Sept 2010
- Completion of PS&E Jul 2013
- Right of Way Certification Sep 2013
- Ready to Advertise – Demolition and Bridge Construction Oct 2013
- Begin Construction - Demolition and Bridge Construction Dec 2013
- End Construction Dec 2016

2. COST ESTIMATE

This document represents the Initial Financial Plan for the Sixth Street Viaduct Project. Per FHWA guidance, this cost estimate is in the year of expenditure dollars that already takes inflation into account. The year of expenditure for this report is FY 2009, which is from July 1, 2008 to June 30, 2009. The cost estimate is based on Structures Advance Planning Studies that is 90% complete at the time of the cost estimate in July 2008. Right of way and construction have not taken place.

The cost estimates presented in this report are for present day costs (end of 2007) using 10% mobilization and 25% for construction contingencies. Right-of-way costs assume a 10% escalation and 20% contingency. Assuming that the project is approved for construction, the final budget capital costs should consider escalation. A common practice is to escalate the construction costs to midyear of construction. Figure 1 shows different constant escalation rates to a midyear of construction to 2013 (since adjusted to 2014). As illustrated in Figure 1, construction costs could escalate 23% - 68% at rates of 3.5% - 9% per year. Escalation of costs for highway construction in California as recorded by the California Department of Transportation (Caltrans) shows an escalation of 27% between 1995 and 2000 (5% average/year) and 69% between 2000 and 2007 (8% average/year). This averages 7% each year over the 12 year period.

Figure 2 shows different variable escalation rates assuming median, lower 10% and upper 10% escalation rates between 2007 and 2015. Also shown in this table is a 6% constant escalation rate over the same period. Attention should be given to the midyear of construction cumulative escalation figures given a 142% (constant 6%), 131% (median), 111% (lower) and 164% (upper).

Based upon the Caltrans historical construction cost data, it is recommended to assume a total escalation increase of 42% for construction costs to the mid-point of construction.

The total expected costs including escalation ranges from \$275,601,000 for Bridge Concept 4 – Alignment 3A to \$362,009,000 for Bridge Concept 5 – Alignment 3B. The cost used for this Financial Plan is \$359.3 million, including bond interest costs of \$14.0 million.

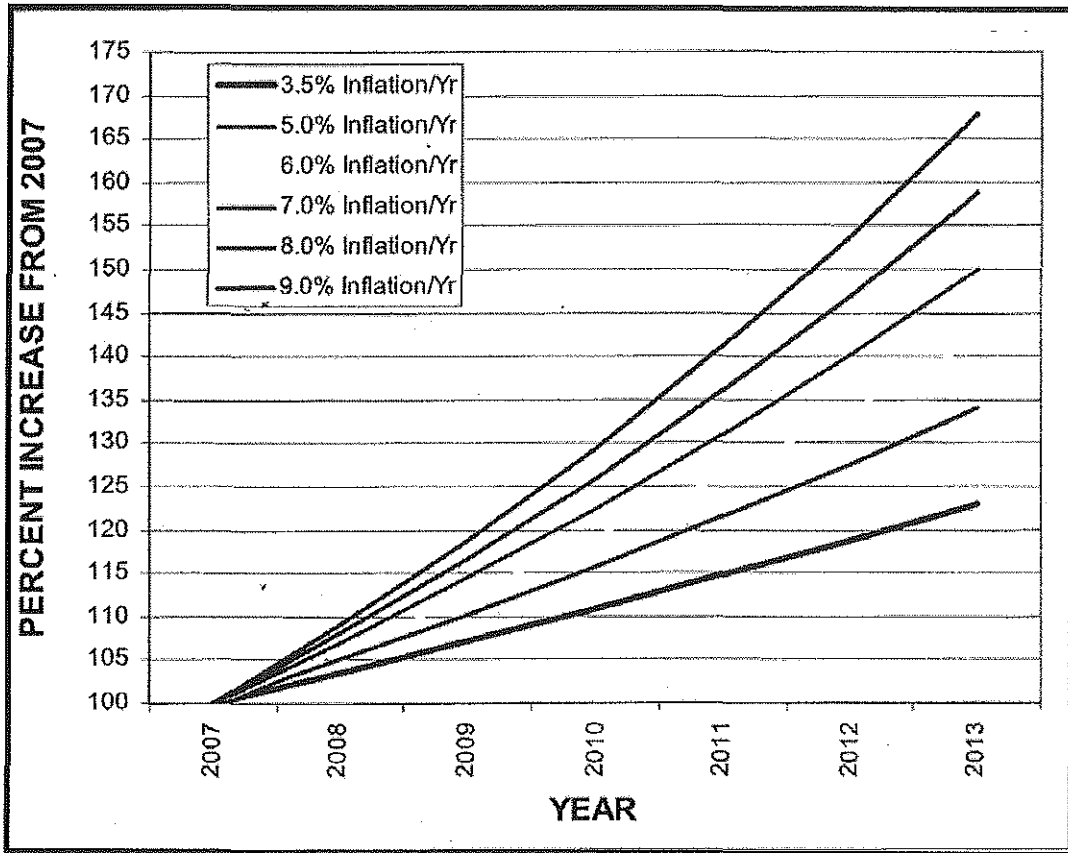


Figure 2, Percent Increase From 2007

Year	Yearly Escalation Rate				Cumulative Escalation Rate From End of 2007			
	Constant Escalation	Median	Lower 10% Limit	Upper 10% Limit	Constant Escalation	Median Escalation	Lower Escalation	Upper Escalation
2007	6.00%	5.20%	2.80%	8.50%	6.00%	5.20%	2.80%	8.50%
2008	6.00%	5.20%	2.80%	8.50%	112.36%	110.67%	105.68%	117.72%
2009	6.00%	4.90%	2.20%	8.60%	119.10%	116.09%	108.00%	127.85%
2010	6.00%	4.50%	1.60%	8.60%	126.25%	121.32%	109.73%	138.84%
2011	6.00%	4.20%	1.00%	8.70%	133.82%	126.41%	110.83%	150.92%
2012	6.00%	3.90%	0.40%	8.80%	142%	131%	111%	164%
2013	6.00%	3.50%	-0.20%	8.80%	150.36%	135.94%	111.05%	178.65%
2014	6.00%	3.20%	-0.80%	8.90%	159.38%	140.29%	110.16%	194.55%
2015	6.00%	2.80%	-1.40%	8.90%	168.95%	144.22%	108.62%	211.87%

Figure 3, Yearly/Cumulative Escalation Rate From 2007

Cost Estimate by Construction Segment

Construction reporting will be identified for the major elements of construction work, including frame and river spans.

Project Construction Type

Design/Bid/Build (DBB) is proposed for this project as it will protect the currently planned funding. The planned funding sources for this project are:

• Federal Highway Bridge Program (HBP) Funds	\$304.3 million
• Proposition 1B Bridge Seismic (LBSRA) Funds	\$ 36.8 million
• City Matching Funds	\$ 4.0 million
• Other State Funds	\$ 0.2 million
• Bond Financing (HBP/Prop 1B) Funds	<u>\$ 14.0 million</u>
Total	\$359.3 million

By using a conventional Design-Bid-Build (DBB) approach, the earliest that construction could occur is December 2013. This schedule is driven by the following constraints:

- Historic structure, requiring long environmental documentation process
- Right-of-way impacts. ROW acquisition cannot begin until ROD is signed
- Railroad (RR) agreement needs to be in place prior to demolition
- Utility coordination and agreement

Construction Packages for the 6th St Bridge

For this project, the City is considering one bid package for demolition and construction. An early contract may be let for local roadway improvements, necessary for the detour to take place prior to the demolition and for relocating utilities. A detailed breakdown of the pre-construction activities as well as each of the phases is described below.

Alternative Alignments

As part of the on-going preliminary engineering effort, several different roadway alignments and structure types are being investigated for the proposed replacement structure. Each combination of roadway alignment and structure type has a different project cost and schedule due to varying structure, roadway, utility, right-of-way (ROW), and other considerations. For the purposes of this proposal, a representative alternative, Corridor B, bridge type 4A, which includes Alternative 3B4, including B modified", is selected. This alternative uses alignment "3B Modified" and structural alternative #4 (2 span extra-dosed concrete bridge over the LA River, concrete box girder approach spans). Other alternatives will have similar design sequencing considerations.

Preliminary Engineering/Environmental (PE) Activities:

- PE proceeds to prepare alternatives so that a preferred alternative can be selected in September 2009. Environmental documentation proceeds toward a ROD in September 2010.
- PS&E preparation begins shortly after the Record of Decision, being September, 2010. PS&E would be completed by July, 2013 and final bid documents, permits and right of way clearances completed the end of September 2013.
- Utilizing Final PS&E, the construction bid package would be advertised in October, 2013, with construction award in December, 2013.

ROW Activities:

- ROW acquisition work commences after ROD. RR agreements in place and utility coordination complete by September 2013.

Construction Activities:

- Contractor mobilization and demolition of existing viaduct.
- Construction of viaduct to be phased with demolition operations.

Cost Estimate by Major Project Element

Table 1 shows the current cost estimate by major element of the project. The major elements are comprised of:

- *PA&ED*: preliminary design and preparation of project report and environmental document.
- *PS&E and ROW*: preparation of plans, specifications and estimate, as well as Caltrans services to secure required right of way. Total costs for Caltrans, the City of Los Angeles and the Consultant Design Team are included.
- *Construction Support*: construction services, including Caltrans construction contract administration and inspection, and City of Los Angeles / Consultant Team involvement during construction.
- *Right of Way*: capital costs to secure the necessary ROW including relocation.
- *Construction*: detour and demolition of existing viaduct and reconstruction of viaduct.

TABLE 1 – ESTIMATED COSTS BY MAJOR PROJECT ELEMENT

PROJECT PHASE	COST (escalated)
PA & ED (Project Approval and Environmental Doc)	\$ 15,316,356
Final Design (Plans, Spec. & Estimates)	10,000,000
ROW (Right of Way)	81,833,000
Financing Costs	2,890,395
Detour and Demo of Existing Viaduct	12,548,466
Reconstruction of Viaduct	210,506,290
CE (Construction Support)	15,145,000
Financing Costs	11,086,247
Total Project Cost	\$ 359,325,754

3. IMPLEMENTATION PLAN

Figure 4 identifies the permits, reviews and approvals that would be required for project construction

Figure 5 shows the project timeline. As of January 2009, the PA&ED phase is approximately 80% complete and the PS&E phase has not begun. All design work for the various construction segments is progressing on the same schedule.

Tables 2 and 3 show the actual expenditures through January 2009, and the budgeted expenditures, by project phase and fund source, respectively, for the remainder of the project through construction completion in 2016. Future Financial Plans will compare expenditures to this baseline projection of project costs. The project continues to make substantial progress and construction is expected to begin December 2013.

Figure 4, Agency / Permit / Approval

Agency	Permit/Approval
U.S. Army Corps of Engineers (USACE)	Section 404 Permit for possible discharge of dredged or fill material into the Los Angeles River
State Historic Preservation Officer (SHPO)	Section 106 consultation and agreement document to resolve the adverse effect to the historic 6 th Street Viaduct
Los Angeles Regional Water Quality Control Board (RWQCB)	Section 401 Water Quality Certification for work in the Los Angeles River Channel
RWQCB	Groundwater Dewatering Permit for discharges of groundwater from construction and project dewatering to surface waters in the watersheds of Los Angeles
California Department of Fish and Game (CDFG)	Section 1602 Agreement for Streambed Alteration
California Public Utilities Commission (PUC) Rail Crossing Engineering Section (RCES)	Rail crossing construction or alteration authorization
Caltrans	Encroachment Permit
All railroad agencies owning and operating railroad tracks along both sides of the Los Angeles River	Railroad Maintenance Agreement for work within railroad ROW

Figure 5, Project Timeline (Calendar Year)

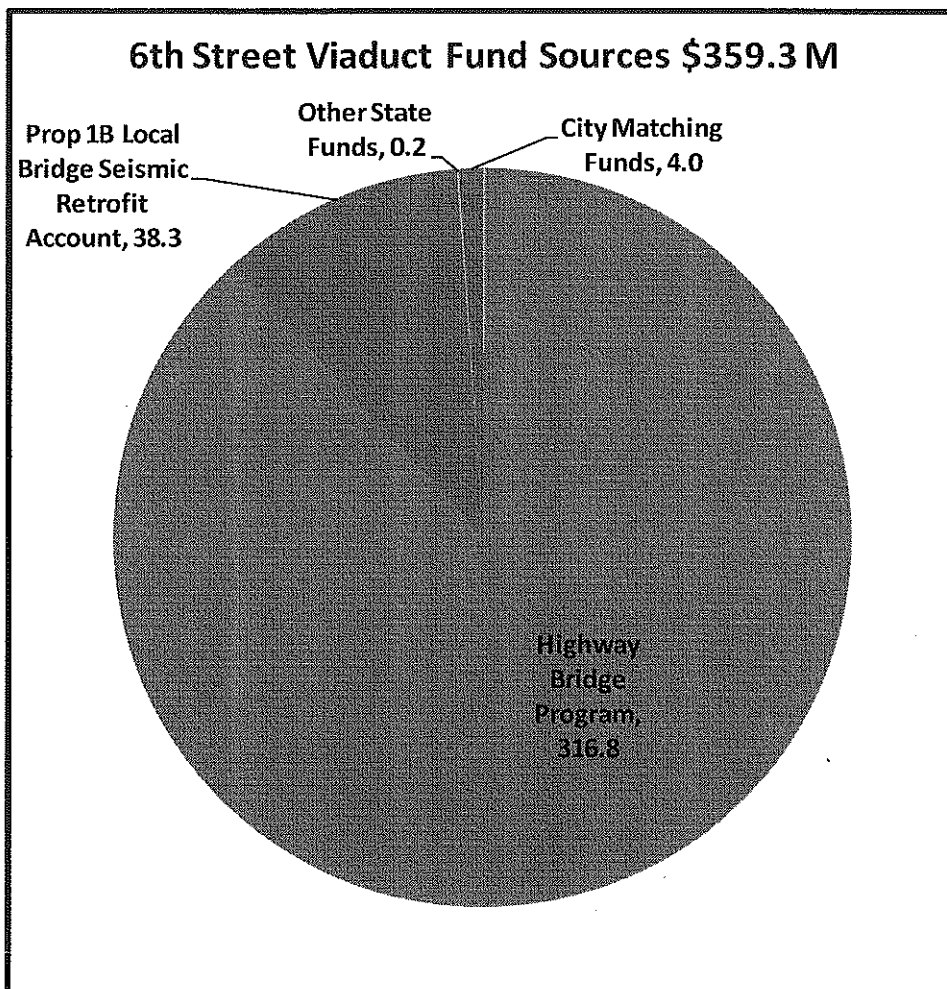
Phase and Completion Dates	2009	2010	2011	2012	2013	2014	2015	2016
Record of Decision (Oct-2010)		★						
ROW Acquisition (Oct-2013)			[Bar spanning 2011, 2012, and 2013]					
Final Design (Jul-2013)			[Bar spanning 2011 and 2012]					
Advertise/Award (October 2013)					[Small square]			
Mob/Detour/Demo Const (Const-Dec-2016)						[Bar spanning 2013, 2014, 2015, and 2016]		

4. PROJECT FINANCING AND REVENUES

Overall Financial Plan

Based on the cost estimate prepared in July, 2008, the mid-point construction duration (FY 2011-2017) cost for the project will be in the range of \$276 - \$362 million. As stated above, the project team determined to use the total project costs of \$345.3 million, plus \$14 million in bond interest costs, for programming purposes, for a total of \$359.3 million. The project is fully funded for this amount using local regional, state and federal funds, plus bonds required for cash flow needs which will be repaid by HBP funds matched by Proposition 1B funds. The funding sources and amounts are shown in Figure 6 below. Detailed charts are included in Appendix A.

Figure 6, Funding Sources In \$ Millions



Description of Funding Sources

The funding sources identified for this project include:

Highway Bridge Program (HBP) funds – These are federal funds that are apportioned by formula to the states. Caltrans then programs these funds to the various bridge projects in the state. The City of Los Angeles has received programmed approval from Caltrans for approximately \$304.5 million in HBP funds plus \$13.2 million for reimbursement of financing costs, for a total HBP programming commitment of \$316.8 million. The City will work with Caltrans to identify additional HBP funds available each year.

In some years, Advanced Construction (AC) Authority may have to be used if HBP funds are over-committed within the state. In some years, the City may have to finance the cash flow if the reimbursements of AC for HBP funds are not available as programmed.

Proposition 1B Local Bridge Seismic Retrofit Account (LBSRA) – These funds are part of the \$20 billion Proposition 1B passed by California voters in November 2006. The LBSRA account provides \$36.7 million for the 11.53 percent required match for the federal HBP Fund for the Local Seismic Bridge Retrofit Program projects, plus \$1.6 million for financing costs, for a total LBSRA amount of \$38.3 million. Prop 1B funds currently programmed are obligated on a first-come, first-serve basis.

The California Transportation Commission (CTC) approved the Caltrans March 9, 2007, list of eligible Proposition 1B LBSRA projects, and the 6th Street project was included on that list. In a June 19, 2008, letter, Caltrans notified Gary Moore, City Engineer, City of Los Angeles, that the 6th Street project will receive Proposition 1B LBSRA matching funds.

In some years, the City may have to finance the cash flow if the Proposition 1B funds are not available as programmed.

Other State Funds – Previous funding included \$200,000 of state funds (primarily state gas tax funds).

City Matching Funds – These funds, totaling \$4.0 million, are composed of Proposition C 25-percent Local Return funds, which are a component of the Los Angeles County Proposition C half-cent sales tax measure allocated by formula to the cities within Los Angeles County. The other City matching fund source is Proposition G, the City of Los Angeles' seismic bond funds.

Financing – There are two types of potential funding delays to the Project:

1. \$72.4 million of cumulative annual federal and state funding allocation shortfalls; and
- ~~2. \$16.1 million of cumulative annual shortfalls of potential invoice reimbursement delays~~

Federal and State Funding Shortfalls: Caltrans has agreed to program full funding for the 6th Street Viaduct Project, but stretched out over a longer time period. This allocation plan does not fit the Project's cash flow needs but fully funds the project over time. In order to keep the Project on schedule, the City will issue bonds, such as MICLA bonds, in the early years of the project and be paid back by the federal and state funds in the later years of the project. These shortfalls total \$72.4 million over the life of the project and require up to \$72.4 million of MICLA bonds. The interest costs for these bonds, \$14 million, have been added to the project costs.

Monthly Invoice Reimbursement Delays: For the funds that will be available each year according to Caltrans, staff has conservatively assumed that the reimbursement of monthly invoices will be delayed by four months each during the Right-of-Way (ROW) phase and three months each during the Construction phase. These potential shortfalls total \$16.1 million over the life of the project and require up to \$16.1 million of additional MICLA bonds. Although the interest costs are not added to the project costs at this time, those interest and issuance costs will be eligible for reimbursement with state and federal funds.

Issuance and Interest Costs Reimbursement: Federal statute and guidelines allow the federal funds to pay back the bonds proceeds as well as the issuance and interest costs for both the longer term year to year shortfalls as well as the shorter term month to month shortfalls.¹

The FHWA guidance states that the project must be approved as a Federal-aid debt-financed (bond, certificate, note, or other debt instrument) project in order to receive payments for eligible debt-related costs under section 122. With the approval of the 6th St. Financial Plan, Caltrans will approve the project as a Federal-aid debt-financed project and both the longer term and shorter term MICLA bond issuance and interest costs will be eligible for reimbursement.

Approval of Local AC: In order for the Project to move forward, Caltrans has requested that the City's governing body approve the use of local AC and the use of a funding source, such as MICLA, as a cash flow source for the yearly project expenses that exceed the federal and state reimbursements. The City would assume responsibility for the project costs until all yearly state and federal allocations have been disbursed. As the project progresses, project budget authority responsibility shifts from the City to the federal funding until the federal and state monies fully fund the project. The City will approve the budget authority for Local AC in late July 2010 and the approval document will be forwarded to Caltrans.

State Garvee Bonds not Feasible at this time: In most cases, AC is undertaken by the State (Caltrans), where it begins a project even if the project does not have sufficient federal-aid obligation authority to cover the federal share of project costs. Caltrans has done this primarily through the issuance of Garvee bonds, which are leveraged by future federal formula funds, such as Highway Bridge Program funds. The use of Garvee bonds allows the cost of the project to be spread over the useful life of the project rather than just the construction time period. Although the City is eligible to participate in Garvee bond financing, currently, there is no State capacity for these bonds. The City will continue to monitor the feasibility of this option, should Garvee bonds become available for the construction phase of the project.

¹ States and public agencies can now receive Federal-aid reimbursements for a wide array of debt-related costs incurred in connection with an eligible debt financing instrument, such as a bond, note, certificate, mortgage, or lease, the proceeds of which are used to fund a project eligible for assistance under Title 23. The issuer may be a state, political subdivision, or a public authority. This change to the Federal-aid program was codified into permanent highway law as an amendment to Section 122 of Title 23 U.S.C. Bond-related costs now eligible for Federal-aid reimbursement include interest payments, retirement of principal, and any other cost incidental to the sale of an eligible bond issue.

The FHWA guidance states that the project must be approved as a Federal-aid debt-financed (bond, certificate, note, or other debt instrument) project in order to receive payments for eligible debt-related costs under section 122. With the approval of the 6th St. Financial Plan, Caltrans will approve the project as a Federal-aid debt-financed project.

5. CASH FLOW AND CONTINGENCY FUND

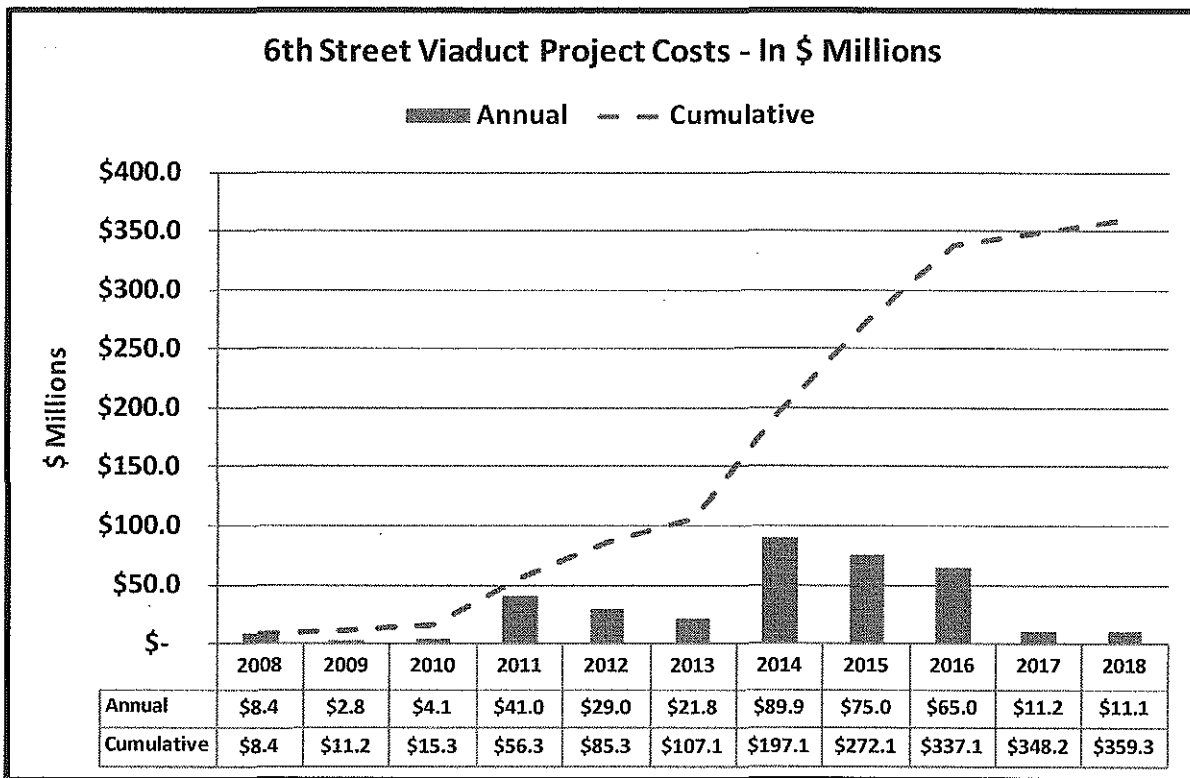
A project cash flow summary, depicting annual and cumulative costs, is shown in Figure 7. This cash flow includes a 25% contingency.

The cash flow Tables 2 – 5D are included in Appendix A. Table 2 shows the project expenditures by project phase by year. Table 3 shows the funding sources by project phase. Table 4 shows the programmed costs and funding sources, including Advanced Construction Authority by project phase. Table 4 is consistent with the Federal Transportation Improvement Program (FTIP) project listing.

Table 5 is the cash flow chart of revenues and expenditures and illustrates the bond financing required to fund the cash flow needs in the 2011 – 2018 period. These bonds are required because of the delay in the HBP and Proposition 1B funds available during the ROW and Construction phases.

Tables 5A through 5D illustrate the cash flow funding and reimbursements for the PA/ED, Final Design, ROW and Construction phases, respectively. The City will sell local bonds and use its Public Works Trust Fund as a cash reserve to keep the project on schedule.

Figure 7, Annual and Cumulative Funding Requirements In \$ Millions



6. RISK IDENTIFICATION AND MITIGATION FACTORS

The City of LA has identified the risks to project completion and sufficiency of revenues in its Risk Management Plan for the 6th Street Viaduct Seismic Improvement Project. The risk mitigation strategies have been identified and include actions that will be taken to address revenue shortfalls including any reserves or other methods of funding which could be applied to this project. The Risk Management Plan also discusses proposed cost containment approaches (such as design sequencing and other ways to accelerate construction).

The following Figures 8 and 9 summarize the major risk types studied and a summary of the strategies. Appendix B includes a matrix of the detailed risk analysis summary of the Risk Management Plan document for the Sixth Street Viaduct Seismic Improvement Project.

Figure 8, Major Risk Types (\$M)

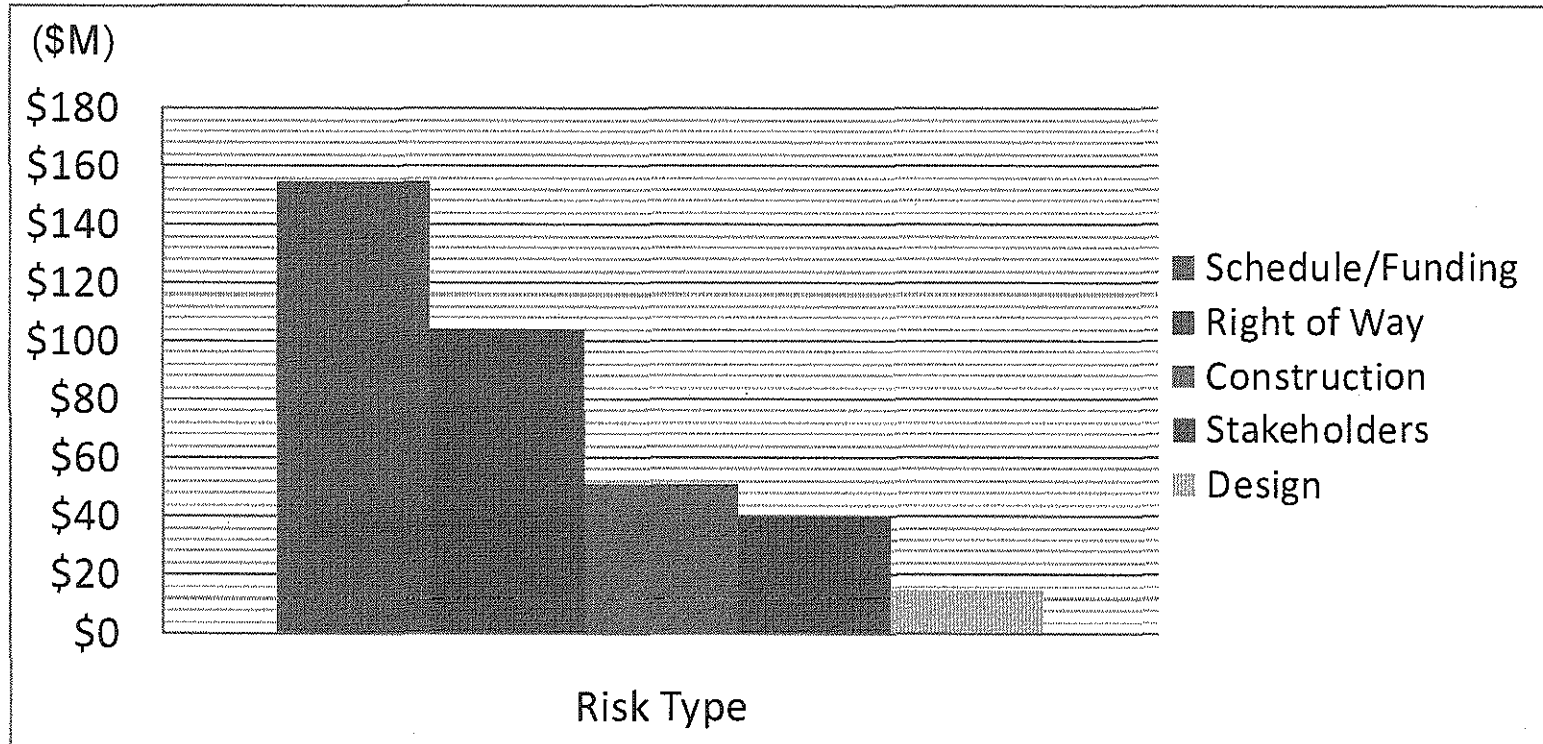
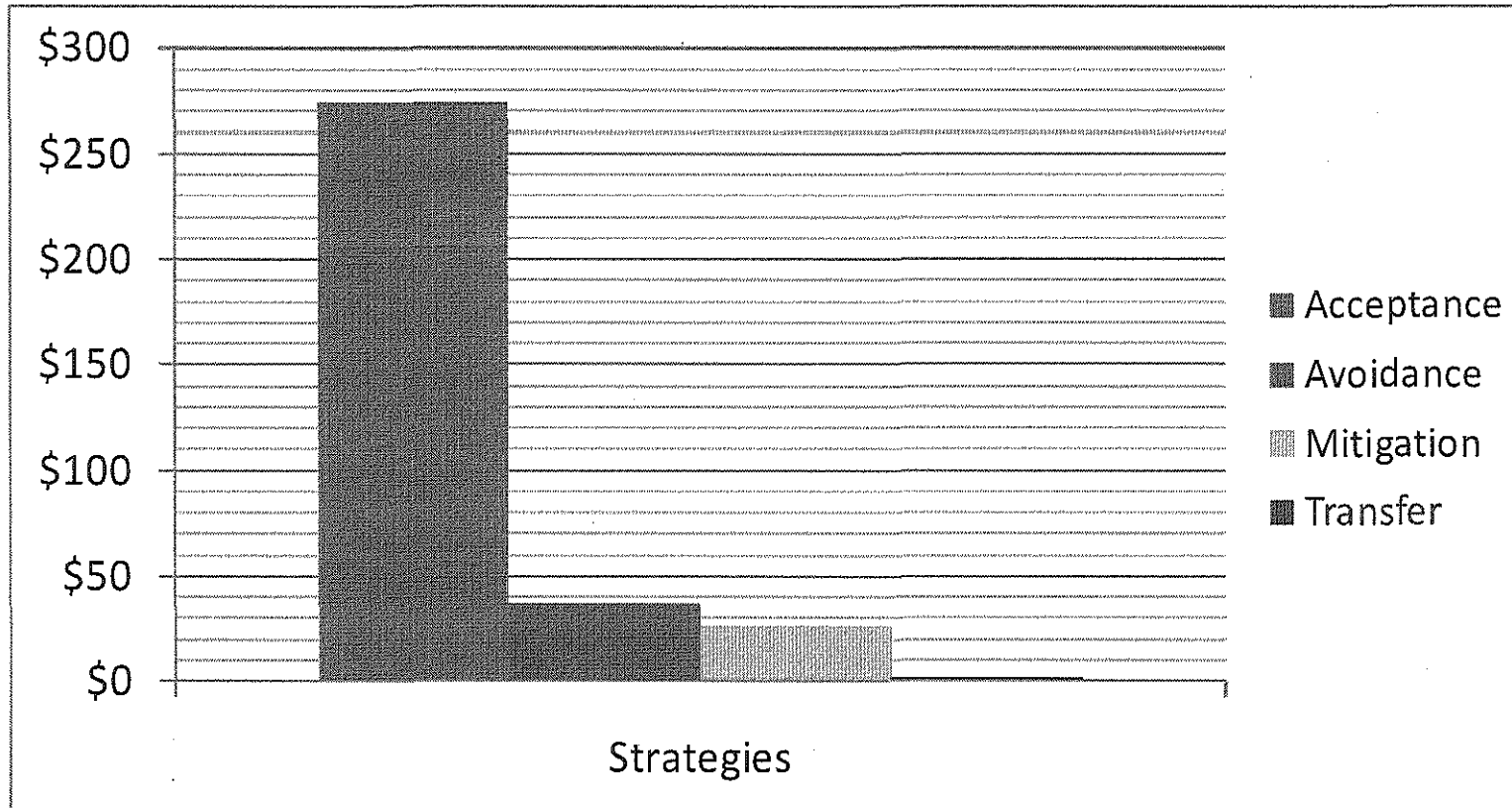


Figure 9, Major Risk Strategies (\$M)



Independent Verification of Cost Estimate

The City of Los Angeles Bureau of Engineering authorized LAN Engineering (AECOM) to provide an independent verification of estimate of costs associated with the replacement alternative being considered for the 6th Street Viaduct Seismic Improvement Project.

The report² discusses and documents the methodologies and resources used by LAN Engineering to produce an Independent Cost Estimate for 6th St. Viaduct Bridge Replacement project. The report considered the construction cost associated with bridge and roadway improvements, but did not address right-of- way cost. The report used 10% mobilization, 25% contingencies, but did not apply escalation costs to keep present day cost consistent with the design team. The Financial Plan used 42% escalation applied to the total estimated cost.

The independent estimate of unit price & quantity for the structures came out to be within 2 to 13 percent of the designer estimate and are summarized in Table 1 below. The cost estimate study concluded that the designer's estimate is reasonably accurate and reliable within an acceptable range of accuracy.

Scope and Summary of Independent Verification of Cost Estimates

The scope of work of this cost estimate study was to independently develop unit prices and generate quantities for the given list of bid items and preliminary plans (15% complete) for Bridge Concepts 1A, 2, and 4A. The list of items and preliminary plans were provided by the designers. The scope of work was limited to these three bridge concepts, being those generally preferred by the project stakeholders.

A summary of the estimates made by the designers and independent check is shown in Figure 10. Bridge and Roadway Construction Cost Estimates were developed for the Bridge Replacement Concept Designs shown in Figure 11.

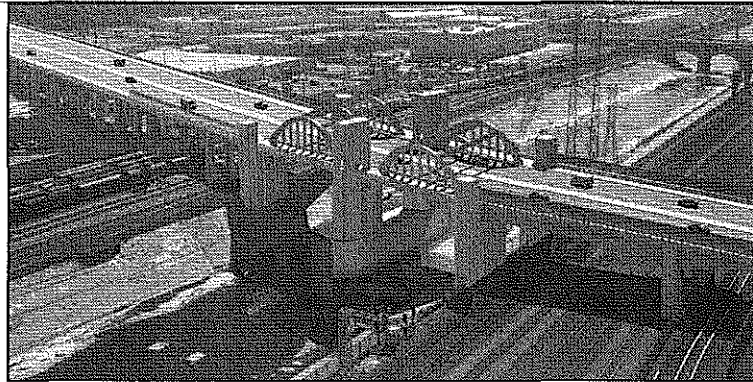
Figure 10, Independent Verification of Costs Summary (\$'s)

Summary of Estimates	Structural Cost	Structural Cost	Structural Cost	Roadway Cost
	Concept 1A	Concept 2	Concept 4A	
Designer's Estimate	\$161,791,000	\$96,132,000	\$103,799,000	\$43,460,000
Independent Estimate (Unit Prices)	\$168,335,000	\$90,076,000	\$96,851,000	\$44,976,000
Independent Estimate (Unit Prices and Quantities)	\$157,948,000	\$107,969,000	\$96,153,000	n/a

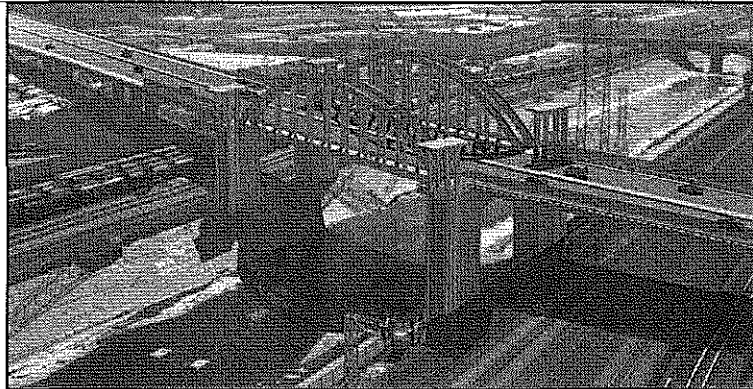
² "City of Los Angeles, Independent Cost Estimating Contract, Task Order No. 1, Independent Cost Estimate Report, 6th Street Viaduct Seismic Improvements", by LAN Engineering Corporation, October 2009.

Figure 11, Bridge Concepts

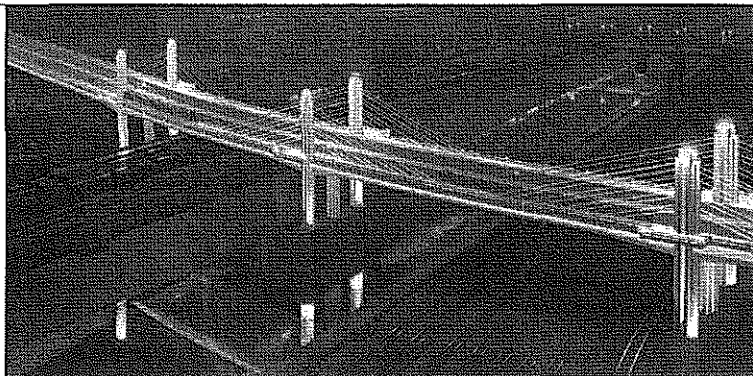
Bridge Concepts



Bridge Concept No. 1A: Replica of existing bridge (architecture and span lengths) from abutment to abutment



Bridge Concept No. 2 : CIP Box Girder for Main Span (2 spans) & Approach spans with Steel Tied Arch Pedestrian Ways for main spans



Bridge Concept No. 4A: Dual Pylon Extradosed Box Girder for Main Span (4 spans) with CIP Box Girders for Approach spans

APPENDIX A - FINANCIAL CHARTS
6TH STREET VIADUCT SEISMIC IMPROVEMENT PROJECT

TABLE 2 – PROJECT EXPENDITURES, BY PROJECT PHASE

FUND SOURCES	Fiscal Year											Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
Highway Bridge Program (HBP) - PE/ED/PS&E	\$ 6,751,028	\$ 2,210,596	\$ 3,291,461	\$ 4,426,500	\$ 4,426,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,106,085
Highway Bridge Program (HBP) - ROW	-	-	-	20,000,000	20,000,000	20,000,000	15,005,622	-	-	-	-	75,005,622
Highway Bridge Program (HBP) - Construction	-	-	-	-	-	-	50,000,000	50,000,000	50,000,000	50,000,000	20,692,898	220,692,898
<i>Subtotal, HBP Funds --></i>	6,751,028	2,210,596	3,291,461	24,426,500	24,426,500	20,000,000	65,005,622	50,000,000	50,000,000	50,000,000	20,692,898	316,804,605
Prop 1B Local Bridge Seismic Retrofit- ROW & Const	-	-	-	2,598,870	2,598,870	2,598,870	8,418,338	6,497,175	6,497,175	6,497,175	2,604,404	38,310,878
<i>Subtotal, Prop 1B Funds --></i>	-	-	-	2,598,870	2,598,870	2,598,870	8,418,338	6,497,175	6,497,175	6,497,175	2,604,404	38,310,878
City Matching Funds	1,487,757	652,649	822,865	573,500	573,500	-	-	-	-	-	-	4,010,271
Total Funding	\$ 8,238,785	\$ 2,763,245	\$ 4,114,326	\$ 27,598,870	\$ 27,598,870	\$ 22,598,870	\$ 73,423,960	\$ 56,497,175	\$ 56,497,175	\$ 56,497,175	\$ 23,297,302	\$ 369,125,754
Local Bonds	-	-	-	13,401,130	1,401,130	-	30,551,291	18,502,825	8,502,825	-	-	72,359,200
Payback of Local Bonds	-	-	-	-	-	765,870	14,036,390	-	-	45,345,885	12,211,055	72,359,200
Cumulative Balance	\$ -	\$ -	\$ -	\$ 13,401,130	\$ 14,802,260	\$ 14,036,390	\$ 30,551,291	\$ 49,054,116	\$ 57,556,941	\$ 12,211,056	\$ 1	\$ 1
Project Costs	8,438,785	2,763,245	4,114,326	41,000,000	29,000,000	21,833,000	87,048,466	75,000,000	65,000,000	11,151,290	-	345,349,112
Financing Costs-Interest Only*	-	-	-	-	-	-	2,890,395	-	-	-	11,086,247	13,976,642
Total Project & Financing Costs	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ 41,000,000	\$ 29,000,000	\$ 21,833,000	\$ 89,938,861	\$ 75,000,000	\$ 65,000,000	\$ 11,151,290	\$ 11,086,247	\$ 359,325,754

* Financing costs from local bonds or other short-term financing to be reimbursed by HBP funds; assumes 5% APR; Excludes loan origination costs

TABLE 3 – FUNDING SOURCE BY PROJECT PHASE

Funding Source	Activity				Total
	PA/ED/PS&E	ROW	CON & CE	Financing	
Highway Bridge Program (HBP) - PA/ED/PS&E	\$ 21,106,085				\$ 21,106,085
Highway Bridge Program (HBP) - ROW		72,446,755			72,446,755
Highway Bridge Program (HBP) - Construction & CE			210,878,244		210,878,244
Highway Bridge Program (HBP) - Financing Costs				12,373,521	12,373,521
Prop 1B Local Bridge Seismic Retrofit- ROW & Const		9,386,245	27,321,512		36,707,757
Prop 1B Local Bridge Seismic Retrofit- Financing Costs				1,603,121	1,603,121
Other State funds	200,000				200,000
City Matching	4,010,271				4,010,271
Total -->	\$ 25,316,356	\$ 81,833,000	\$ 238,199,756	\$ 13,976,642	\$ 359,325,754

TABLE 4 – PROGRAMMED COSTS AND FUNDING SOURCES

Phase Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
PE	\$ 16,000,000	\$ 9,316,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,316,356
ROW	-	-	-	84,723,395	-	-	-	-	84,723,395
Construction and CE	-	-	-	-	-	-	249,286,003	-	249,286,003
Total →	\$ 16,000,000	\$ 9,316,356	\$ -	\$ 84,723,395	\$ -	\$ -	\$ 249,286,003	\$ -	\$ 359,325,754
Fund Source Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
Fed \$	\$ 12,800,000	\$ 7,453,085	\$ (8,000,000)	\$ 28,853,000	\$ 20,000,000	\$ 20,000,000	\$ 65,005,622	\$ 170,692,898	\$ 316,804,605
Local Match	3,200,000	1,863,271	(853,000)	7,126,561	(2,591,212)	(2,591,212)	20,170,938	(22,115,075)	4,210,271
LSSRP Bond	-	-	-	2,591,212	2,591,212	2,591,212	8,422,167	22,115,075	38,310,878
Local AC	-	-	8,853,000	46,152,622	(20,000,000)	(20,000,000)	155,687,276	(170,692,898)	-
Total →	\$ 16,000,000	\$ 9,316,356	\$ -	\$ 84,723,395	\$ -	\$ -	\$ 249,286,003	\$ -	\$ 359,325,754
PE Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
Fed \$	\$ 12,800,000	\$ 7,453,085	\$ (8,000,000)	\$ 8,853,000					\$ 21,106,085
Local Match	3,200,000	1,863,271	(853,000)						4,210,271
LSSRP Bond									-
Local AC			8,853,000	(8,853,000)					-
Total →	\$ 16,000,000	\$ 9,316,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,316,356
ROW Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
Fed \$				\$ 20,000,000	\$ 20,000,000	\$ 20,000,000	\$ 15,005,622		\$ 75,005,622
Local Match				7,126,561	(2,591,212)	(2,591,212)	(1,944,137)		-
LSSRP Bond				2,591,212	2,591,212	2,591,212	1,944,137		9,717,773
Local AC				55,005,622	(20,000,000)	(20,000,000)	(15,005,622)		-
Total →	\$ -	\$ -	\$ -	\$ 84,723,395	\$ -	\$ -	\$ -	\$ -	\$ 84,723,395
Construction Summary	Fiscal Year								Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	Beyond	
Fed \$							\$ 50,000,000	\$ 170,692,898	\$ 220,692,898
Local Match							22,115,075	(22,115,075)	-
LSSRP Bond							6,478,030	22,115,075	28,593,105
Local AC							170,692,898	(170,692,898)	-
Total →	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 249,286,003	\$ -	\$ 249,286,003

TABLE 5 – CASH FLOW FINANCING: ALL PHASES

PHASE	Fiscal Year											Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
PA/ED (Proj Approval and Envir Doc)	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,316,356
Final Design (PS&E)	-	-	-	5,000,000	5,000,000	-	-	-	-	-	-	10,000,000
<i>Subtotal, PA/ED and PS&E --></i>	<i>8,438,785</i>	<i>2,763,245</i>	<i>4,114,326</i>	<i>5,000,000</i>	<i>5,000,000</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>25,316,356</i>
ROW (Right of Way)	-	-	-	36,000,000	24,000,000	21,833,000	-	-	-	-	-	81,833,000
ROW Financing Costs	-	-	-	-	-	-	2,890,395	-	-	-	-	2,890,395
<i>Subtotal, ROW --></i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>36,000,000</i>	<i>24,000,000</i>	<i>21,833,000</i>	<i>2,890,395</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>84,723,395</i>
CONSTRUCTION COST (CON)	-	-	-	-	-	-	12,548,466	-	-	-	-	12,548,466
Detour and Demo of Existing Viaduct	-	-	-	-	-	-	70,000,000	70,000,000	60,000,000	10,506,290	-	210,506,290
Reconstruction of Viaduct	-	-	-	-	-	-	4,500,000	5,000,000	5,000,000	645,000	-	15,145,000
CE (Construction Support)	-	-	-	-	-	-	-	-	-	-	11,086,247	11,086,247
Construction Financing Costs	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal, Construction and CE --></i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>87,048,466</i>	<i>75,000,000</i>	<i>65,000,000</i>	<i>11,151,290</i>	<i>11,086,247</i>	<i>249,286,003</i>
Total Project & Financing Costs	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ 41,000,000	\$ 29,000,000	\$ 21,833,000	\$ 89,938,861	\$ 75,000,000	\$ 65,000,000	\$ 11,151,290	\$ 11,086,247	\$ 359,325,754
FUNDING	Fiscal Year											Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
Highway Bridge Program (HBP) - PA/ED/PS&E	\$ 6,751,028	\$ 2,210,596	\$ 3,291,461	\$ 4,426,500	\$ 4,426,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,106,085
Highway Bridge Program (HBP) - ROW	-	-	-	20,000,000	20,000,000	20,000,000	12,446,755	-	-	-	-	72,446,755
Highway Bridge Program (HBP) - Construction	-	-	-	-	-	-	50,000,000	50,000,000	50,000,000	50,000,000	10,878,244	210,878,244
Highway Bridge Program (HBP) - Financing Costs	-	-	-	-	-	-	2,558,867	-	-	-	9,814,654	12,373,521
<i>Subtotal, HBP Funds --></i>	<i>6,751,028</i>	<i>2,210,596</i>	<i>3,291,461</i>	<i>24,426,500</i>	<i>24,426,500</i>	<i>20,000,000</i>	<i>65,005,622</i>	<i>50,000,000</i>	<i>50,000,000</i>	<i>50,000,000</i>	<i>20,692,898</i>	<i>316,804,605</i>
Prop 1B Local Bridge Seismic Retrofit- ROW & Const	-	-	-	2,598,870	2,598,870	2,598,870	8,086,810	6,497,175	6,497,175	6,497,175	1,332,811	36,707,757
Prop 1B Local Bridge Seismic Retrofit- Financing Costs	-	-	-	-	-	-	331,528	-	-	-	1,271,593	1,603,121
<i>Subtotal, Prop 1B Funds --></i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2,598,870</i>	<i>2,598,870</i>	<i>2,598,870</i>	<i>8,418,338</i>	<i>6,497,175</i>	<i>6,497,175</i>	<i>6,497,175</i>	<i>2,604,404</i>	<i>38,310,878</i>
Other State Funds	200,000	-	-	-	-	-	-	-	-	-	-	200,000
City Matching Funds	1,487,757	552,649	822,865	573,500	573,500	-	-	-	-	-	-	4,010,271
Total Funding	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ 27,598,870	\$ 27,598,870	\$ 22,598,870	\$ 73,423,960	\$ 56,497,175	\$ 56,497,175	\$ 56,497,175	\$ 23,297,302	\$ 359,325,754
Local Bonds	-	-	-	13,401,130	1,401,130	-	30,551,291	18,602,825	8,502,825	-	-	72,359,200
Payback of Local Bonds	-	-	-	-	-	765,870	14,036,390	-	-	45,345,885	12,211,055	72,359,200
Cumulative Balance	\$ -	\$ -	\$ -	\$ 13,401,130	\$ 14,802,260	\$ 14,036,390	\$ 30,551,291	\$ 49,054,116	\$ 57,556,941	\$ 12,211,056	\$ 1	\$ 1
Project Costs	8,438,785	2,763,245	4,114,326	41,000,000	29,000,000	21,833,000	87,048,466	75,000,000	65,000,000	11,151,290	-	345,349,112
Financing Costs-Interest Only*	-	-	-	-	-	-	2,890,395	-	-	-	11,086,247	13,976,642
Total Project & Financing Costs	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ 41,000,000	\$ 29,000,000	\$ 21,833,000	\$ 89,938,861	\$ 75,000,000	\$ 65,000,000	\$ 11,151,290	\$ 11,086,247	\$ 359,325,754

* Financing costs (interest and issuance costs) from local bonds/financing will be reimbursed by HBP funds, matched by Prop. 1B funds; assumes 5% APR (issuance costs not calculated but actual costs would be reimbursed).

TABLE 5A – CASH FLOW FINANCING: PA-ED PHASE

Costs - PA/ED	Fiscal Year											Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
PHASE												
PA/ED (Proj Approval and Envir Doc)	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326									\$ 15,316,356
Final Design (PS&E)												-
<i>Subtotal, PA/ED and PS&E --></i>	8,438,785	2,763,245	4,114,326	-	-	-	-	-	-	-	-	15,316,356
ROW (Right of Way)												-
<i>Subtotal, ROW --></i>				-	-	-						-
CONSTRUCTION COST (CON)												-
Detour and Demo of Existing Viaduct												-
Reconstruction of Viaduct												-
<i>Subtotal, Construction --></i>								-	-	-	-	-
CE (Construction Support)												-
<i>Subtotal, Construction and CE--></i>												-
Total Project Costs	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,316,356
Funding												
Highway Bridge Program (HBP) - PA/ED/PS&E	\$ 6,751,028	\$ 2,210,596	\$ 3,291,461		\$ -	\$ -						\$ 12,253,085
Highway Bridge Program (HBP) - ROW												-
Highway Bridge Program (HBP) - Construction												-
<i>Subtotal, HBP Funds --></i>	\$ 6,751,028	\$ 2,210,596	\$ 3,291,461	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,253,085
Prop 1B Local Bridge Seismic Retrofit												-
Other State Funds	200,000											200,000
City Matching Funds	1,487,757	552,649	822,865									2,863,271
Total Funding	\$ 8,438,785	\$ 2,763,245	\$ 4,114,326	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,316,356
Subtotal Balance - need to finance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

TABLE 5B – CASH FLOW FINANCING: FINAL DESIGN PHASE

Costs - Final Design	Fiscal Year											Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
PHASE												
PA/ED (Proj Approval and Envir Doc)												
Final Design (PS&E)				5,000,000	\$ 5,000,000							\$ -
<i>Subtotal, PA/ED and PS&E ---></i>	-	-	-	5,000,000	5,000,000	-	-	-	-	-	-	10,000,000
ROW (Right of Way)												-
<i>Subtotal, ROW ---></i>												-
CONSTRUCTION COST (CON)												
Detour and Demo of Existing Viaduct												-
Reconstruction of Viaduct												-
<i>Subtotal, Construction ---></i>												-
CE (Construction Support)												-
<i>Subtotal, Construction and CE ---></i>												-
Total Project Costs	\$ -	\$ -	\$ -	\$ 5,000,000	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000
Funding												
Highway Bridge Program (HBP) - PA/ED/PS&E				\$ 4,426,500	\$ 4,426,500	\$ -						\$ 8,853,000
Highway Bridge Program (HBP) - ROW												-
Highway Bridge Program (HBP) - Construction												-
<i>Subtotal, HBP Funds ---></i>	\$ -	\$ -	\$ -	\$ 4,426,500	\$ 4,426,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,853,000
Prop 1B Local Bridge Seismic Retrofit												-
Other State Funds												-
City Matching Funds				573,500	573,500	-						1,147,000
Total Funding	\$ -	\$ -	\$ -	\$ 5,000,000	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000
Subtotal Balance - need to finance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

TABLE 5C – CASH FLOW FINANCING: ROW PHASE

Costs - ROW	Fiscal Year											Total
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
PHASE												
PA/ED (Proj Approval and Envir Doc)												\$ -
Final Design (PS&E)												-
<i>Subtotal, PA/ED and PS&E --></i>	-	-	-	-	-	-	-	-	-	-	-	-
ROW (Right of Way)				36,000,000	24,000,000	21,833,000						81,833,000
<i>Subtotal, ROW --></i>				36,000,000	24,000,000	21,833,000						81,833,000
ROW Financing Costs							2,890,395					2,890,395
<i>Subtotal, ROW & Financing --></i>	-	-	-	36,000,000	24,000,000	21,833,000	2,890,395	-	-	-	-	84,723,395
CONSTRUCTION COST (CON)												
Detour and Demo of Existing Viaduct												-
Reconstruction of Viaduct												-
<i>Subtotal, Construction --></i>	-	-	-	-	-	-	-	-	-	-	-	-
CE (Construction Support)												-
<i>Subtotal, Construction and CE--></i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Project Costs	\$ -	\$ -	\$ -	\$ 36,000,000	\$ 24,000,000	\$ 21,833,000	\$ 2,890,395	\$ -	\$ -	\$ -	\$ -	\$ 84,723,395
Funding												
Highway Bridge Program (HBP) - PA/ED/PS&E												\$ -
Highway Bridge Program (HBP) - ROW				20,000,000	20,000,000	20,000,000	15,005,622					75,005,622
Highway Bridge Program (HBP) - Construction												-
<i>Subtotal, HBP Funds --></i>	\$ -	\$ -	\$ -	\$ 20,000,000	\$ 20,000,000	\$ 20,000,000	\$ 15,005,622	\$ -	\$ -	\$ -	\$ -	\$ 75,005,622
Prop 1B Local Bridge Seismic Retrofit				2,598,870	2,598,870	2,598,870	1,921,163					9,717,773
Other State Funds												-
City Matching Funds												-
Total Funding	\$ -	\$ -	\$ -	\$ 22,598,870	\$ 22,598,870	\$ 22,598,870	\$ 16,926,785	\$ -	\$ -	\$ -	\$ -	\$ 84,723,395
Subtotal Balance - need to finance	\$ -	\$ -	\$ -	\$ (13,401,130)	\$ (1,401,130)	\$ 765,870	\$ 14,036,390	\$ -	\$ -	\$ -	\$ -	\$ (0)
Local Bonds				13,401,130	1,401,130							14,802,260
Payback of Local Bonds						765,870	14,036,390					14,802,260
Cumulative Balance	\$ -	\$ -	\$ -	\$ 13,401,130	\$ 14,802,260	\$ 14,036,390	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ (0)

TABLE 5D – CASH FLOW FINANCING: CONSTRUCTION AND CE PHASE

Costs - Construction & CE (Support)	Fiscal Year											
	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	Total
PHASE												
PA/ED (Proj Approval and Envir Doc)												\$ -
Final Design (PS&E)												-
Subtotal, PA/ED and PS&E -->	-	-	-	-	-	-	-	-	-	-	-	-
ROW (Right of Way)												-
Subtotal, ROW -->				-	-	-						-
CONSTRUCTION COST (CON)												
Detour and Demo of Existing Viaduct							12,548,466					12,548,466
Reconstruction of Viaduct							70,000,000	70,000,000	60,000,000	10,506,290		210,506,290
Subtotal, Construction -->	-	-	-	-	-	-	82,548,466	70,000,000	60,000,000	10,506,290	-	223,054,756
CE (Construction Support)							4,500,000	5,000,000	5,000,000	645,000		15,145,000
Subtotal, Construction and CE -->	-	-	-	-	-	-	87,048,466	75,000,000	65,000,000	11,151,290	-	238,199,756
Construction Financing Costs											11,086,247	11,086,247
Subtotal, Construction, CE & Financing Costs -->	-	-	-	-	-	-	87,048,466	75,000,000	65,000,000	11,151,290	11,086,247	249,286,003
Total Project Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,048,466	\$ 75,000,000	\$ 65,000,000	\$ 11,151,290	\$ 11,086,247	\$ 249,286,003
Funding												
Highway Bridge Program (HBP) - PA/ED/PS&E												\$ -
Highway Bridge Program (HBP) - ROW												-
Highway Bridge Program (HBP) - Construction							50,000,000	50,000,000	50,000,000	50,000,000	20,692,898	220,692,898
Subtotal, HBP Funds -->	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000,000	\$ 50,000,000	\$ 50,000,000	\$ 50,000,000	\$ 20,692,898	\$ 220,692,898
Prop 1B Local Bridge Seismic Retrofit							6,497,175	6,497,175	6,497,175	6,497,175	2,604,404	28,593,105
Other State Funds												-
City Matching Funds												-
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56,497,175	\$ 56,497,175	\$ 56,497,175	\$ 56,497,175	\$ 23,297,302	\$ 249,286,003
Subtotal Balance - need to finance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (30,551,291)	\$ (18,502,825)	\$ (8,502,825)	\$ 45,345,885	\$ 12,211,055	\$ (0)
Local Bonds							30,551,291	18,502,825	8,502,825	-	-	57,556,941
Payback of Local Bonds							-	-	-	45,345,885	12,211,055	57,556,940
Cumulative Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,551,291	\$ 49,054,116	\$ 57,556,941	\$ 12,211,055	\$ 0	\$ (0)

APPENDIX B - RISK ANALYSIS SUMMARY
OF THE
RISK MANAGEMENT PLAN DOCUMENT
FOR THE
6TH STREET VIADUCT SEISMIC IMPROVEMENT PROJECT
UPDATED MAY 2010

PROJECT RISK MANAGEMENT PLAN

PROJECT RISK MANAGEMENT PLAN - Sixth Street Viaduct																				
Approve	Status	ID #	Date Identifies	Functional Assignment	Threat/Opportunity Event	SMART Column	Risk Trigger	Qualitative Analysis				Quantitative Analysis				Response Strategy			Monitoring and Control	
								Type	Probability	Impact	Risk Matrix	Probability (%)	Impact (\$ or yrs)	Effect (if or days)	Strategy	Response Actions including advantages and disadvantages	Affected WBS Items	Responsibility (Task Manager)	Status Interval or Mission Check	Date, Status and Review Comments
	Active	1A	8/1/2004	fundraising	Project funding through the LSSRP may not be available for the project. This increase in the total funding package.	46% of 2003/2004 LSSRP funds based on a first come first serve, LSSRP may not be available for the project. This increase in the total funding package.	Funding obligations appear to be in place to cover the baseline project costs of \$24 million. During the 2003-2004 term, the amount of \$307.3 million, during the 2004-2005 term, the amount of \$345 million, and during the 2005-2006 term, the amount of \$445 million.	Schedule	Low	Very High	VL L M H VH L L L X L L L X	30%	0	0	Acceptance	IFTA call for projects. LSSRP Bond funds have a 4% limit for other programs.	LACH/MDEA	quarterly	As of the 1st of 2007, Item (1) was provided to the City Engineer for review. The City Engineer has approved the LSSRP project as of 8/1/2007. LSSRP project was awarded. LSSRP funding is in place. Update funding obligations in June of 2008. Review update in the 4th of 2008.	
	Active	1B	PA/SED	fundraising	Project funding through the LSSRP may not be available for the project. This increase in the total funding package.	CTC guidelines for LSSRP will provide funds based on a first come first serve, LSSRP may not be available for the project. This increase in the total funding package.	Other major projects (Golden Gate Bridge retrofit, replacement ramps for Golden Gate Bridge) may be ready for construction.	Schedule	Low	moderate	VL L M H VH L L L X L L L X	30%	0	0	Acceptance	1) Investigate project delivery method of design build with City Risk Management. 2) Work with FDOT and California Council Districts of potential funding to allow preliminary design to move ahead. 3) Work with FDOT and California Council Districts of potential funding to allow preliminary design to move ahead. 4) Investigate other funding sources.	LACH/NTB/DEAC/CH/WW	quarterly	In the 4th quarter of 2007, Item (1) was provided to the City Engineer for review. The City Engineer has approved the LSSRP project as of 8/1/2007. LSSRP project was awarded. LSSRP funding is in place. Update funding obligations in June of 2008. Review update in the 4th of 2008.	
	Active	2A	4/7/2008	fundraising	Bridge Loan for Sixth Street Viaduct	Project loan (low) may require a bridge loan. Current sources have not been identified to provide a bridge loan.	The statewide HRRP program cannot meet Sixth Street requirements for all projects per schedule. The HRRP will require additional permits to advance construction.	Schedule	Very High	High	VL L M H VH L L L X L L L X	90%	0	0	Acceptance	City needs to identify funding needs to meet construction. M&E could be a source or other means such as the Infrastructure Bank	CH/NTB	quarterly	The debt financial plan was complete 2008.	
	Active	2A	3/30/2006	rw	Right of Way	The proposed width of the viaduct will be less than the existing right of way. The proposed width of the viaduct will be less than the existing right of way. The proposed width of the viaduct will be less than the existing right of way.	The current City right of way is almost directly adjacent to the edge of the viaduct. Additional right of way will be required for the viaduct. The proposed width of the viaduct will be less than the existing right of way. The proposed width of the viaduct will be less than the existing right of way.	Schedule	Very High	High	VL L M H VH L L L X L L L X	80%	0	0	Acceptance	Need to determine if right of way costs are reasonable. If not, then look for other sources (such as M&E) and if not, ROW are acceptable.	MM/ILA	quarterly	As of 3/30/2006, it appears that the roadway could be parallel off from the viaduct. Bridge Concept No. 4 is the preferred option for the bridge. The preferred alignment 3B (modified) was not during the 1st of 2006. The preferred alignment 3B (modified) was not during the 1st of 2006. The preferred alignment 3B (modified) was not during the 1st of 2006.	
	Relief	2B	4th Qtr 08	design	Right of Way	The proposed width of the viaduct will be less than the existing right of way. The proposed width of the viaduct will be less than the existing right of way. The proposed width of the viaduct will be less than the existing right of way.	Construction bid package is prepared but ROW not received by CH.	Scope	Low	Very High	VL L M H VH L L L X L L L X	0%	0	0	Acceptance	Contingency plans to consider reducing the roadway width for the viaduct. Bridge Concept No. 4 is the preferred option for the bridge. The preferred alignment 3B (modified) was not during the 1st of 2006. The preferred alignment 3B (modified) was not during the 1st of 2006. The preferred alignment 3B (modified) was not during the 1st of 2006.	MM/DEA	quarterly	As of 4/1/2008, it appears that the roadway could be parallel off from the viaduct. Bridge Concept No. 4 is the preferred option for the bridge. The preferred alignment 3B (modified) was not during the 1st of 2006. The preferred alignment 3B (modified) was not during the 1st of 2006. The preferred alignment 3B (modified) was not during the 1st of 2006.	
	Active	3	6/1/2004	rw	Relocation of City utility	Relocation of City utility. CH will be less than the existing right of way. The proposed width of the viaduct will be less than the existing right of way. The proposed width of the viaduct will be less than the existing right of way.	Need to have plan in place for relocation of City utility. Current estimate ranges from \$2 to \$5 million but a functional relocation.	Schedule	very high	moderate	VL L M H VH L L L X L L L X	80%	0	0	Acceptance	Risk must be accepted in order to maintain schedule and continue with development of design. City departments have been identified and opportunities to address this issue.	LACH/NTB	quarterly	As of the 1st of 2008, Caltrans and PHVA will review the early relocation of City utility. CH will be less than the existing right of way. The proposed width of the viaduct will be less than the existing right of way. The proposed width of the viaduct will be less than the existing right of way.	
			8/1/2004					Schedule			VL L M H VH L L L X L L L X								2/2008 - CH presented the project to BIPPC for early consultation. Appears BIPPC concurs with recommendations for historical mitigation. Team has also met with LA Conservancy. It appears the Conservancy understands the bridge	

PROJECT RISK MANAGEMENT PLAN

PROJECT RISK MANAGEMENT PLAN - Sixth Street Viaduct																		
Priority	Status	Date Identified	Project Phase	Identification			Qualitative Analysis			Quantitative Analysis			Response Strategy			Monitoring and Control		
				Functional Assignment	Third/Opportunity Event	SMART Column	Risk Trigger	Type	Probability	Impact	Risk Multiplier	Probability (%)	Impact (\$ or days)	Effect (0 or days)	Strategy	Response Actions Including	Affected WBS Tasks	Responsibility (Task Manager)
Active	10	3/29/2004	PID	planning	Cost Escalation from Stakeholder Enhancements	As a result of the HRR project, the HRR project has been scheduled for bridge replacement, right of way, and approach. 200 feet of roadway approach scope items may be added that will not be funded by the HRR program. Therefore, other sources of funding will be required.	During the environmental phase the scope should be defined.	Cost	Very High	High	Very High	90%	0	Mitigation	Need to have stakeholder understand the bidding will be required. Consensus building will be required.	LA and consultant team	At project milestones	5/13/2004 - baseline project met. As of the 1st Q of 2004, "Greening" elements are being added to include median treatments at ends of viaduct to include vegetation and other systems of preservation of existing each that as follows: pathway below replacement roadway, roadway widening and widening of existing each that have increased as noted in the 6/29/04 local roadway cost items.
Active	11A	6/1/2004	PID	design	Existing Corp of Engineers Right of Way Viaduct and all road.	There is an existing lane below the existing viaduct. Currently the plan is to align the viaduct with the HRR program. This would have impacts on the viaduct.	If the reconstruction conflict with the existing lane or if operations during the bridge advanced planning studies.	Cost	Very High	High	High	60%	0	Acceptance	Need to determine impacts and coordination with owner. Need to provide for function of proposed foundations within the approach to the viaduct. Need to coordinate with existing alignment and location. As cost related to relocating lanes under railroad right of way will be very costly and impact vehicles.	MNDCA	prior to setting final alignment	As of 1/20/04 field survey scans completed to the 1/20/04. All items will require some reconstruction for foundation construction. Impacted areas include the Rail Road ROW. Cost at APS stage indicate cost impacts less than 2% of project total. Need to coordinate with owner for features effect during from realignment.
Active	11B	7/1/2005	PID	design	Existing Corp of Engineers Right of Way Viaduct and all road.	There is an existing lane below the existing viaduct. Currently the plan is to align the viaduct with the HRR program. This would have impacts on the viaduct.	If the reconstruction conflict with the existing lane or if operations during the bridge advanced planning studies.	Cost	High	High	High	6%	0	Mitigation	Need to determine impacts and coordination with owner. Need to provide for function of proposed foundations within the approach to the viaduct. Need to coordinate with existing alignment and location. As cost related to relocating lanes under railroad right of way will be very costly and impact vehicles.	MNDCA	prior to setting final alignment	As of 7/1/05 scope statement of the scans to the 1/20/04 will require reconstruction for foundation construction. Impacted areas include the Rail Road ROW. Cost at APS stage indicate cost impacts less than 2% of project total. Need to coordinate with owner for features effect during from realignment.
Active	12	6/1/2004	PID	Construction	Existing Power Transmission Lines at east and west tier banks	Currently power lines between the viaduct and the tier banks. Risk will be during construction, what are the power company restrictions that could affect the method of construction.	The decision to replace the bridge.	Cost	High	High	High	70%	0	Avoidance	Need to work with the utility company to define construction restrictions and deal with this in the design and specs.	CH	During prelim. Design	DWP restrictions will need to be phased into specs.
Domestic	13	6/1/2004	PID	design	Relocation of Existing Power Transmission Lines between east and west tier banks.	Relocation of power lines will require construction of new lines. Feasibility of these type of structural systems will be determined during the design phase. Also, alignment shifts toward the south, will impact the towers.	Concepts were eliminated during the design phase. Also, alignment shifts toward the south, will impact the towers were eliminated.	Schedule	Very Low	High	High	10%	0	Avoidance	As of the 4th Q of 2007, I was determined to be a 2007 project. The relocation of power lines will require construction of new lines. Feasibility of these type of structural systems will be determined during the design phase. Also, alignment shifts toward the south, will impact the towers were eliminated.	CHOEAMN	During prelim. Design	During the 4th Q of 2007 it was determined to be a 2007 project. The relocation of power lines will require construction of new lines. Feasibility of these type of structural systems will be determined during the design phase. Also, alignment shifts toward the south, will impact the towers were eliminated.
Active	14	6/1/2004	PID	design	Reduced Restrictions	Bridge type, span layout will depend on the power lines. Also, alignment shifts toward the south, will impact the towers.	Decision to replace bridge or retrofit bridge.	Schedule	High	High	High	70%	0	Acceptance	Need to know railroad restrictions and define bridge type and construction method accordingly.	MNDCA	During prelim. Design	As of 2/1/06 meetings with Rail Road and other agencies, the bridge type and span layout will depend on the power lines. Also, alignment shifts toward the south, will impact the towers were eliminated.

PROJECT RISK MANAGEMENT PLAN

PROJECT RISK MANAGEMENT PLAN - Sixth Street Viaduct																							
AP#	Status	ID #	Date Identified	Phase	Functional Assignment	Threat/Opportunity Event	SMART Column	Risk Trigger	Type	Qualitative Analysis				Quantitative Analysis				Response Strategy				Monitoring and Control	
										Impact	Probability	Impact	Risk Matrix	Probability (%)	Impact (\$ or days)	Effect (\$ or days)	Strategy	Response Actions	Affected WBS Tests	Responsibility	Status Interval or Milestone Check	Date, Status and Review Comments	
15	Active	15	6/1/2004	PID	nw	Right of Way needs	Need to determine right of way takes alignment and for proposed alignment. Determine estimate of associated RW costs.	Decision to replace bridge.	Cost	Very High	Very High	Very High	90%	0	0	Avoidance	Need to determine right of way needs and associated cost.	LA and consultant team	During prelim. Design	As of 1/09 a review of potential property acquisition was completed. City Risk Management Group indicates that aerial right of way costs have increased. However, the alignment C up to risks involved during and after construction. In the 4th of 2009, the alignment C was modified as a preference alignment to minimize this risk.			
16A	Active	16A	1/1/2006	PID	nw	Risk exists in future maintenance access to west side of viaduct. Opportunity would result in lower RW cost, but there is a possibility of property of others below the viaduct.	Decision to obtain aerial RW is moving ahead as of the 4th of 08.	Schedule	Moderate	Moderate	Moderate	50%	0	0	Avoidance	City risk management group needs to determine if opportunity decrease RW cost is worth the risk associated with the decision to obtain aerial right.	LA and consultant team	During prelim. Design	As of 1/09 aerial right of way have been reviewed. City Risk Management Group indicates that aerial right of way costs have increased. However, the alignment C up to risks involved during and after construction. In the 4th of 2009, the alignment C was modified as a preference alignment to minimize this risk.				
16B	Active	16B	2/1/2008	PID	nw	If it may be possible to span some viaduct properties by increasing the height of the viaduct. Opportunity would result in lower RW cost, but there is a possibility of property of others below the viaduct.	Decision to obtain aerial RW is moving ahead as of the 4th of 08.	Schedule	Very High	Very High	Very High	0%	0	0	Avoidance	Should consider performing a geotechnical study to determine if it is possible to span some viaduct properties by increasing the height of the viaduct. Opportunity would result in lower RW cost, but there is a possibility of property of others below the viaduct.	LA and consultant team	Milestone Cost Estimates	As of 2/08 the team is conducting geotechnical studies to determine if it is possible to span some viaduct properties by increasing the height of the viaduct. Opportunity would result in lower RW cost, but there is a possibility of property of others below the viaduct.				
17	Active	17	3/1/2008	PID	environmental	Opportunity to reuse portions of the existing bridge.	Using the existing arch as an abutment to support the viaduct.	Scope	Low	Moderate	Moderate	30%	0	0	Acceptance	Could be a unique way to dispose of the bridge and provide for the viaduct.	LA and consultant team	During prelim. Design	Need to discuss potential use with SHPO & LA Conservancy. LA Conservancy, Mts & indicated that this is a possibility. However, SHPO is a barrier on this issue.				
18	Dormant	18	6/1/2004	PID	design	Foundation type	Decision to replace bridge.	Cost	Moderate	Moderate	Moderate	50%	0	0	Acceptance	Need to perform geotech and structural studies to determine if it is possible to reuse the existing bridge.	CH2E	During prelim. Design	Preliminary foundation recommendations are a pile cap for the steel piles driven into rock.				
19	Dormant	19	1/1/2008	PID	environmental	Bridge resting on existing structure.	Decision to replace bridge.	Cost	Moderate	Low	Moderate	50%	0	0	Acceptance	Need to determine type of existing bridge and perform pre-stress survey.	PTO	During prelim. Design	A mitigation measure may be needed.				
20A	Relief	20A	3/1/2005	PID	environmental	Mechanical traffic on existing viaduct.	Decision to demolish and replace the existing viaduct.	Scope	Very Low	Very Low	Very Low	10%	0	0	Avoidance	Need to complete a Type III that includes a design for the demolition of the viaduct and a design for the construction of the viaduct.	SHN	During prelim. Design	As of the 4th of 2009, it appears that the demolition of the viaduct and the construction of the viaduct is a possibility.				
20B	Relief	20B	3/1/2005	PID	environmental	Mechanical traffic on existing viaduct.	Decision to demolish and replace the existing viaduct.	Scope	Very Low	Very Low	Very Low	10%	0	0	Avoidance	Need to complete a Type III that includes a design for the demolition of the viaduct and a design for the construction of the viaduct.	SHN	During prelim. Design	As of the 4th of 2009, it appears that the demolition of the viaduct and the construction of the viaduct is a possibility.				

PROJECT RISK MANAGEMENT PLAN

Priority	Request	Date Identified in Project Phase	Functional Assignment	Identification			Qualitative Analysis			Quantitative Analysis			Response Strategy			Monitoring and Control		
				Threat to Study Event	SMART Column	Risk Trigger	Type	Probability	Impact	Risk Matrix	Frequency	Impact	Effect	Strategy	Response Actions including	Affected WBS Tasks	Responsibility	Milestone Check
Retired	208	PD	environmental	Continuing traffic volume is likely to increase. The bridge and its approach are likely to be replaced with a new design.	Decision to replace the existing viaduct.	Cost	Very High	Moderate	VL L M H VH	0	0	Acceptance	Need to complete a study that includes a study for the location of the viaduct.	UG	MN	Design and Environmental Phases	As of 2/2008, cost estimates for the viaduct are being updated. However, it might be more cost effective to allow for the cost of the viaduct work to take place before the roadway deck.	
Active	21	PD	construction	From about 2004 the cost for highway construction has increased dramatically over historical increases. The bridge cost has been increased and estimated to be in excess of \$100 million. It is not possible to provide a cost estimate for the project budget in quarter 1, 2013. Risk is stability of funds to cover cost increases.	Construction cost at time of reinitiating the project.	Cost	Moderate	Moderate	VL L M H VH	0	0	Acceptance	Need to follow construction cost escalation, update estimates, document and obtain funding.	UG	City/Utility Agencies	Design and Environmental Phases	As of 2/2008, cost estimates for the viaduct are being updated. However, it might be more cost effective to allow for the cost of the viaduct work to take place before the roadway deck.	
Active	22	PD	design	Removal of existing piles and foundation for the bridge and adjacent to the road facilities. The existing foundations within the river and at the top of the river banks (adjacent to rail road facilities) are pile foundations. The bridge and adjacent to the road facilities are of partial length reinforced concrete. Piles can not be reused and mostly replaced with new piles for construction of new deep foundation.	Proposed alignments within the footprint of the existing viaduct.	Cost	Very High	High	VL L M H VH	0	0	Acceptance	Account for pile removal in environmental documents and cost estimates and the possibility of using driven piles between existing piles at the river pier.	UG	DEAC/CHPT3	Design and Environmental Phases	As of 1/2007 preliminary alignment will be reviewed for the bridge and adjacent to the road facilities. Updates and environmental document.	
Active	23	PD	design	Cost and schedule in estimate independent studies.	Decision to retrofit or replace viaduct.	Cost	High	Low	VL L M H VH	0	0	Acceptance	Identify utilities and relocation cost to retrofit project.	UG	MN/CH	Design Development	As of 2/2008 it appears that the sewer siphon will not be impacted below the viaduct. The sewer siphon will be abandoned. Impact for added capacity 1.1A and 1A has not been determined as of 1/14/08.	
Active	24	PD	design	City cash flow to pay for design and environmental studies is likely to slow down the project and risk shifting funding sources that are tied to state bonds.	Decision to move ahead with project.	Cost	High	High	VL L M H VH	0	0	Acceptance	Review the cash flow issue to appear management within the City.	UG	City/CH	Design development	As of 2/2008 Caltrans has been responsive to provide additional funding for the project. As of 2/2008, design team have not been delayed over 90 days.	
Active	25	PD	design	Failure to reach agreement on the RCD alternatives and possible funding sources could be lost.	Decision to replace viaduct.	Cost	Moderate	High	VL L M H VH	0	0	Acceptance	Need to obtain concurrence of preferred environmental alternative.	UG	PTG	Environmental Phases	UG process requires concurrence. In the 4th of 08 the PDT recommendation is to replace the viaduct.	
Active	26	PD	design	Changes in the subdeck width of the bridge after the preferred bridge type is selected will result in redesign of the subdeck and design cost.	Decision to increase project budget and the City approval to move ahead with design to support the viaduct or alignment.	Cost	Moderate	Very High	VL L M H VH	0	0	Acceptance	Have to have EV studies as soon as possible. Remaining studies are completed.	UG	MN/CH	Design development	The VE studies are being schedule. VE study completion of the viaduct is likely to be the approval. During the 1st of 08 it was recommended bridge type, but to recommend the replacement alternative along an alignment 2B (roadway).	
Retired	27	PD	Environmental	Selection of a "Preferred Best Project" in order to keep the project moving ahead need to start design of risk in quarter 1, 2013. Risk is stability of funds to cover cost increases.	Selection of an Apparent Best Project with design to support the environmental document.	Cost	Moderate	High	VL L M H VH	0	0	Acceptance	Have a team work stop following the VE study to determine an Apparent Best Project.	UG	City/CHPT/ANN/DEA	At conclusion of VE studies.	Cost and environmental studies are being completed. Studies seem to need to address which alternative is likely to be the apparent best project. During the 1st of 08 it was recommended bridge type, but to recommend the replacement alternative along an alignment 2B (roadway).	

PROJECT RISK MANAGEMENT PLAN

Priority	Date in Project Phase	Identification			Qualitative Analysis			Quantitative Analysis			Response Strategy			Monitoring and Control			
		Date Identified	Functional Assignment	Threat/Opportunity Event	SMART Column	Risk Trigger	Type	Probability	Impact	Risk Matrix	Probability (P)	Impact (I)	Response Actions including strategies and contingencies	Strategy	Affected WBS Tasks	Responsibility (Task Manager)	Status Interval or Milestone Check
Active	28	Engineering Services	Scope on design contracts set at \$5 million.	The magnitude of the design work will likely exceed the design fees available (likely to be \$3 million) and will likely result in delays to schedule if a solution is not found to increase total contract amount.	Very High	Moderate	Very High	High	VL L M H VH	0%	Acceptance	City program manager to discuss with project manager.	Acceptance	City program manager to discuss with project manager.	City/DEAP/Team	Prior to execution of Task Order No. 2	Additional funds for design and construction engineering have been requested through California as of 8/14/2009. The program manager is working with the state to get additional funding approved.
Dormant	29	Construction	Price fluctuations, delays in existing facilities.	During construction, third parties may delay the project due to delays in existing facilities, Contractor and City.	High	High	High	High	VL L M H VH	0%	Acceptance	Monitor the construction specifications, require the contractor to perform inspections of properties and to install vibration monitors to document level of vibration.	Acceptance	Monitor the construction specifications, require the contractor to perform inspections of properties and to install vibration monitors to document level of vibration.	CH	During final design	Normally would please requirements from the contractor. Review the project (relocation and design) to the cities.
Active	30	Design	Relocation of City facility, City maintenance facility relocation and other related work.	The facility needs to be relocated prior to the start of construction. The relocation of the facility is being coordinated with the City and the contractor.	Very High	High	Very High	High	VL L M H VH	0%	Acceptance	Need to bring the planning process and design process to test later on.	Acceptance	Need to bring the planning process and design process to test later on.	CH/City	quarterly	Need to determine if design and relocation can take place prior to the start of construction. During the relocation and design to the cities.
Active	31	Funding	IB funding being held due to starting date at the date.	IB funding needs to be allocated prior to the start of construction. The funding is being coordinated with the City and the contractor.	Very High	Low	Very High	Low	VL L M H VH	0%	Acceptance	If the conditions are determined by June of 2011 it might be set to award construction contracts. Mobilization by the contractor.	Acceptance	If the conditions are determined by June of 2011 it might be set to award construction contracts. Mobilization by the contractor.	City	quarterly	Need to have CD 14 understand permit list of 15 listings.
Dormant	32	Construction	Difficult Site Conditions	The foundation type and being compatible with existing conditions.	High	Very High	High	Very High	VL L M H VH	0%	Acceptance	Recommend a shoring program that will be in place at each beam location.	Acceptance	Recommend a shoring program that will be in place at each beam location.	City/CH	quarterly	Approximately 18 borings were taken to determine the soil conditions. A preliminary foundation report will need to be addressed after bridge type is determined and type of beam soil.
Active	33	Design/Construction	Design/Construction	Design/Construction	Very High	Moderate	Very High	Moderate	VL L M H VH	0%	Mitigation	Move to change project delivery method to design-build. Unresolved details could be used as the shoring document.	Mitigation	Move to change project delivery method to design-build. Unresolved details could be used as the shoring document.	City/CH	monthly	This method has not been used by the City for past projects. CH and the City are determining the process to move forward.
Dormant	35	Design	Process to select bridge type	If the decision to select bridge type is made, the decision will likely delay the design and part funding if necessary, if construction can not start (IB funding).	High	Very High	High	Very High	VL L M H VH	0%	Avoidance	Need to meet with decision makers so that the decision to select bridge type can be developed so a construction contract can be awarded.	Avoidance	Need to meet with decision makers so that the decision to select bridge type can be developed so a construction contract can be awarded.	City/PDT	monthly	Meeting has been held with CD 14 in the past. The decision to select bridge type will be made in the next few months. Also, it will have the time of construction into the contract to avoid potential change order.
Dormant	36	Construction	Blocked man-made objects	Blocked man-made objects, such as trees, etc. impact to the safety of the work.	Moderate	Moderate	Moderate	Moderate	VL L M H VH	0%	Acceptance	Remove or shifting program that will be in place at each beam location. geophysical surveys	Acceptance	Remove or shifting program that will be in place at each beam location. geophysical surveys	City/CH	quarterly	Approximately 18 borings were taken along alignment C, for bridge concept 4. The borings were taken to determine the soil conditions. The borings were taken to determine the soil conditions. The borings were taken to determine the soil conditions.
Dormant	37	Construction	"Green House Gas" Legislation Cost	The California Legislature could control the construction equipment in California.	Very High	Low	Very High	Low	VL L M H VH	0%	Acceptance	Will need to determine cost impacts and increase unit prices within cost estimate.	Acceptance	Will need to determine cost impacts and increase unit prices within cost estimate.	PDT	quarterly	Will need to determine when laws are passed. Also, it will have the time of construction into the contract to avoid potential change order.

PROJECT RISK MANAGEMENT PLAN

PROJECT RISK MANAGEMENT PLAN - Sixth Street Viaduct																																													
Priority	Status	ID #	Date Identified	Identification				Qualitative Analysis			Quantitative Analysis			Response Strategy			Monitoring and Control																												
				Functional Assignment	Threat/Opportunity Event	SMART Columns	Risk Trigger	Type	Probability	Impact	Risk Matrix	Probability (%)	Impact (if or say)	Effect or say	Strategy	Response Actions including advantages and disadvantages	Affected URS Tasks	Responsibility (Task Manager)	Status Interval or Milestone Check	Date, Status and Review Comments																									
	Complete	38	4/7/2009	Design	Design competition for final design.	Specimens to bid. A design competition has been set for design competition and bid stakeholder. The competition would ask design firms to submit preliminary design. A design competition would likely delay the job by 1 year and risk losing 10 funds.	City decides to move ahead with a design competition.	Cost	low	Very High	<table border="1"> <tr><td>Very High</td><td>High</td><td>Medium</td><td>Low</td><td>Very Low</td></tr> <tr><td>High</td><td>Medium</td><td>Low</td><td>Very Low</td><td>Very Low</td></tr> <tr><td>Medium</td><td>Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td></tr> <tr><td>Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td></tr> <tr><td>Very Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td></tr> </table>	Very High	High	Medium	Low	Very Low	High	Medium	Low	Very Low	Very Low	Medium	Low	Very Low	Very Low	Very Low	Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	0%	0%	High	Avoidance	Inform City Engineer and other stakeholders of risks and associated costs to have a design competition.	(18)	City/CH	monthly	Review Alternatives with City Engineer on 7/20/09. Review Alternatives with City Engineer for the competition, advertising the competition, short listing qualified bidders, awarding the contract, preparing selection team, technical modification to environmental document, and the final bid list will take funding.
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	Active	39	3/28/2010	Design	This SHPO reviewing the bridge plans.	As part of the MOU with the SHPO, plans will be submitted to the SHPO for review. A review period is being required. Changes to the plans and ultimately review could delay the project schedule resulting in our preliminary funding deadlines.	City decided to accept the SHPO review as part of the MOU.	Cost	low	High	<table border="1"> <tr><td>Very High</td><td>High</td><td>Medium</td><td>Low</td><td>Very Low</td></tr> <tr><td>High</td><td>Medium</td><td>Low</td><td>Very Low</td><td>Very Low</td></tr> <tr><td>Medium</td><td>Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td></tr> <tr><td>Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td></tr> <tr><td>Very Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td><td>Very Low</td></tr> </table>	Very High	High	Medium	Low	Very Low	High	Medium	Low	Very Low	Very Low	Medium	Low	Very Low	Very Low	Very Low	Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	0%	High	Acceptance	Provide the SHPO with video and request review comments within 30 days for consideration. Place the review time line into the project schedule.	(18)	City/Design Team	monthly		
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**APPENDIX C – CHECKLIST FOR FINANCIAL PLAN COMPONENTS
 FHWA FINANCIAL PLAN GUIDANCE ATTACHMENT C
 6th STREET VIADUCT PROJECT INITIAL FINANCIAL PLAN
 July 2010**

1. <u>Cost Estimate</u>	Status
Provide a total cost estimate for the full project. Provide an activity breakdown for feasibility studies, preliminary engineering, environmental assessment, right-of-way acquisition, construction, construction engineering and inspection, project management, contingencies, and ITS activities. Include other cost categories, as necessary. See <i>Major Project Program Cost Estimating Guidance</i> .	completed
All cost estimates should be expressed on a year-of-expenditure basis and should include a narrative describing assumptions used to arrive at such estimates.	completed
2. <u>Implementation Plan</u>	
Provide a comprehensive description of the project, including, but not limited to, project scope, termini, and interconnections. Describe any proposed phasing for the project and dependencies on other projects. Include a list of all federal, state, and local permits and approvals required for the project and a schedule for obtaining such permits and approvals.	completed
Include the schedule for completing the project, by year, showing estimated costs.	completed
It should be noted that updates to the initial financial plan should ensure consistency in project scope. If costs/schedule change, the changes must be clearly identified to ensure valid comparisons to the initial financial plan.	completed
3. <u>Financing and Revenues</u>	
Sources should include separate line items, as applicable, for Federal, state, and local funds; private investment; any other contributions; market value of right-of-way dedications; bond proceeds (general obligation, revenue, GARVEEs, and others); state infrastructure bank loans; other borrowing (specify); investment income; Federal credit assistance (TIFIA). The total of all funding sources should equal the total of the cost estimate. New funding sources developed after the Initial Financial Plan should be incorporated at the subsequent Annual Update.	completed
4. <u>Cash Flow</u>	
The cash flow pro forma should indicate the level of cash required to fund the project on an annual basis over the period of the financial plan. The pro forma should include beginning and ending balances, all sources and uses of funds, and show annual change in financial position. Total sources and uses should be equal.	completed