



**CONSTRUCTION COMMITTEE
JULY 16, 2009**

SUBJECT: DIVISION 21 ROCKFALL MITIGATION PROJECT – CP # 204112

ACTION: ESTABLISH A LIFE-OF-PROJECT BUDGET

RECOMMENDATION

Establish a Life-of-Project (LOP) budget for Division 21 Rockfall Mitigation Project – CP # 204112, in the amount of \$1,480,000.

RATIONALE

This project involves the construction of a rockfall mitigation system along the westerly slope of Division 21 Metro Gold Line Maintenance Facility. The Rockfall Mitigation System installation will comprise of a heavy steel interlocked wire netting attached to the hillside with specially driven anchor bolts into the rock formation. The area where the rockfall barrier system will be applied is susceptible to rock slides. This rockfall barrier system will prevent rockslides from taking place and causing potential serious property damage and injuries to people working in the Metro Gold Line Maintenance Facility.

Rockfall is sporadic and unpredictable with causes generally attributable to environmental effects such as weather and earthquakes. Because of the multiple factors affecting rockfall dynamics, rockfall mitigation is not an exact science that guarantees the safety of individuals and property. However, by the application of sound engineering principles to a predictable range of rockfall dynamics, the risk of injury and property loss can be substantially reduced by the use of properly designed rockfall mitigation system in identified risk areas.

This rockfall mitigation system installation will not impact any environmentally historic installations such as the Zanja Madre historic non-active underground drainage structure. MTA has also worked closely with Los Angeles City Recreation and Parks and Council District 1 as well as the Citizens Committee to Save Elysian Park to ensure that everyone's concerns were addressed when engineering the final solution to stabilize the hillside.

FINANCIAL IMPACT

The FY10 Budget includes \$1.1 million in Cost Center 8510, Project No. 204112, Division 21 Rockfall Mitigation. This action will establish an LOP budget of \$1,480,000. The funding and expenditure plan has been included as Attachment A.

Since this is a multi-year project, the Project Manager and Chief Capital Management Officer are responsible to budget the cost in future years consistent with the MTA adopted total life-of-project budget.

Impact to Enterprise Fund Bus and Rail Operating Budget

The funding for this project will come from Proposition A 35% rail funds. These funds are eligible for rail operating and capital expenditures. No other sources of funds were considered because this is a Rail Capital Safety Improvement Project. This activity will impact ongoing rail operating costs by approximately between \$3,000 to \$10,000 annually for inspection and minor maintenance.

ALTERNATIVES CONSIDERED

The Board may choose not to authorize the LOP budget for this project. This alternative is not recommended by staff because without proceeding with the Rockfall Mitigation Installation Project and by not resolving the existing safety hazardous condition, this may expose MTA to large potential future claims arising from serious personal injury and property loss claims. A future potential rock slide in this vicinity of the rail yard will also severely impact the operation of the rail yard and affect the transit service being provided to the public on the Metro Gold Line.

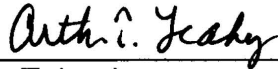
ATTACHMENT

A. Capital Project Funding and Expenditure Plan

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Richard Thorpe
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Attachment A

DIVISION 21 ROCKFALL MITIGATION - CP 204112

**CAPITAL PROJECT FUNDING & EXPENDITURE PLAN
(Dollars)**

Capital Project 204112 - 100%	FY10	FY11	TOTAL	% of Total
Uses of Funds				
Environmental	\$ 12,000	\$ 10,000	\$ 22,000	1.5%
Design	\$ 84,000	\$ -	\$ 84,000	5.7%
Construction	\$ 840,000	\$ 300,000	\$ 1,140,000	77.0%
Metro Labor	\$ 81,000	\$ 30,000	\$ 111,000	7.5%
Project Contingency	\$ 83,000	\$ 40,000	\$ 123,000	8.3%
Total Project Cost:	\$ 1,100,000	\$ 380,000	\$ 1,480,000	100%
Sources of Funds				
Prop A 35% Rail	\$ 1,100,000	\$ 380,000	\$ 1,480,000	100%
Total Project Funding:	\$ 1,100,000	\$ 380,000	\$ 1,480,000	100%