



## CITY OF BEVERLY HILLS STAFF REPORT

**Meeting Date:** April 11, 2013  
**To:** Honorable Members of the City Council  
**From:** Alan Schneider, Director of Project Administration *km*  
**Subject:** Request by Council Member Krasne for City Council Review of the Crescent Drive Retractable Street Bollards  
**Attachments:** 1. Pre-Design Report – Executive Summary

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### **INTRODUCTION**

This staff report presents the project status for installation of retractable street bollards in Crescent Drive as part of the Matt Construction contract for site improvements around the Annenberg Center. Council member Krasne requested a discussion by the City Council for further consideration concerning traffic circulation impacts and access to both businesses and residents during street closures, and the City Council's previous direction to approve the installation.

### **DISCUSSION**

An environmental impact report for the Annenberg Center and garage was certified by the City Council on January 22, 2009. The EIR addressed the necessary street closure of Crescent Drive for the construction of the garage and included a Traffic Management Plan for Crescent Drive closure. It is staff's understanding that future street closures would only happen in conjunction with City sponsored or authorized events which would be reviewed by the City Council at future public meetings, and that residents and businesses would be consulted and informed of future closures when the events are approved.

On July 3, 2012, the City Council approved the contract with Matt Construction for Part 4, reconstruction of the public streets and parkways surrounding the Annenberg Center as required by the lease agreement. That contract sum contained an allowance for the installation of street bollards in Crescent Drive.

At the December 18, 2012 City Council Study Session staff presented a pre-design report (PDR) on retractable street bollard systems, and requested direction to proceed.

The PDR (attached for reference), prepared by the civil engineering firm, Psomas evaluated various bollard systems for consideration and a proposed bollard layout for Crescent Drive at N. Santa Monica and S. Santa Monica Boulevards.

City Council directed staff to proceed with a manually operated, permanently installed, counterweighted bollard system within the roadway. The bollards are 15" diameter, 35" high and spaced 48" on centers, and rated K12 by the Department of State to stop a 15,000 lb. vehicle traveling at 50 mph. In conjunction with the bollard system traffic control signage and delineators at the intersections of Crescent Drive and Santa Monica North/South are included in the scope of work. As noted previously, the bollards are a safety device to protect pedestrians at special events. The installation of the bollards is not predicated on any specific frequency of special events.

Since the direction to proceed with the work, Psomas has completed construction documents which have been plan checked for permit by the Department of Community Development. Matt Construction has secured subcontract costs not to exceed \$640,000 and directed the subcontractor, Delta Scientific to prepare shop drawings for product fabrication. Release of the shop drawings for fabrication is anticipated by the end of April to facilitate the four week manufacturing period, followed by installation in the roadway in May/June 2013.

The not to exceed pricing is based on this work continuing to be scheduled in conjunction with the site improvements around the Annenberg Center.

#### *Environmental Assessment*

The Department of Community Development has reviewed the proposed bollard system project for environmental impact and concluded that the installation of such devices is Categorically Exempt under the California Environmental Quality Act (CEQA) pursuant to Class 1(f) for installation of safety devices, and Class 4(e) for minor temporary use of land having negligible or no permanent effects on the environment, including carnivals and other events, and therefore requires no specific environmental approval action of the City Council.

#### **FISCAL IMPACT**

The total cost of the bollard system including all related traffic modifications are covered in the current guaranteed maximum price (GMP) contract with Matt Construction.

#### **RECOMMENDATION**

As of this date direction has not yet been given to proceed with fabrication of the bollards. Upon the City Council's affirmation, staff is prepared to authorize Matt Construction to proceed with the fabrication and installation of the K12 retractable street bollard system as proposed at Crescent Drive and Santa Monica Boulevard North and South in time for coordination with completion of the site work.



David D. Gustavson  
Approved By

# **Attachment 1**

# 1.0 EXECUTIVE SUMMARY

This Pre-Design Report (PDR) was prepared by request of the City of Beverly Hills Public Works and Transportation Department via Agreement No. 446-11. The purpose of the report is to evaluate the technical feasibility of installing bollards within Crescent Drive for the purpose of temporary or event-related street closure between the Wallis Annenberg Center for the Performing Arts and City Hall.

Based on the criteria developed as a part of the report, two (2) candidate types\* of bollard systems were evaluated for potential installation:

- Manually Operated, Counterweighted - a permanently installed system within the roadway including foundations, ground/counterweight tubes, counterweight system and bollards installed below grade. Bollards are raised and lowered manually via lifting handles.
- Hydraulically Operated - also a permanently installed system within the roadway including foundations, ground tubes, hydraulic cylinder basket assembly and bollards installed below grade. Bollards are raised and lowered by a set of hydraulic power units (HPU) that each operates one or more bollards.

*\* A third system type (Removable Fixed Post – RFP) is discussed in the body of the report but was not selected as a candidate type based upon operational considerations and relative cost vs. the considered options*

The basis for evaluation of the bollard system was considered as a temporary barricade to allow closure of Crescent Drive to vehicular traffic for various potential uses. The system is not intended to act as a high-security access prevention installation to stop a potential intentional/malicious “crasher”. After consideration of project factors including operating speed, observed roadway usage, and similar local installations a minimum of a Department of State (DOS) K8 rated bollard system (15,000lb vehicle travelling at 40 mph) is recommended.

Similarly, after review of the City’s operational requirements, similar existing installations, and construction cost we recommend a manually operated, counterweighted bollard system.

Construction cost for the recommended alternative is estimated at approximately \$775,000.

# 2.0 INTRODUCTION

The City of Beverly Hills requested a Pre-Design Report (PDR) from Psomas to evaluate potential installation of retractable or removable bollards in the public right of way (ROW). The City wishes to understand the considerations related to installation of bollards on Crescent Drive between the Wallis Annenberg Center for the Performing Arts and City Hall at both Santa Monica Boulevard North and South to allow for temporary closures of Crescent Drive on this block.

February 2012

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