

**City of Culver City, California  
Agenda Item Report**

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| Meeting Date: 02/01/2010                                                                                                                                             |  | Item Number: <u>C-1</u>                                                           |  |
| <b>CITY COUNCIL AGENDA ITEM: Approval of Final Plans and Specifications and Authorization to Advertise Bids for the Braddock Pump Station Upgrade Project, P-873</b> |  |                                                                                   |  |
| Contact Person/Dept.: Andy O'Connell/PW                                                                                                                              |  | Phone Number: (310) 253-5606                                                      |  |
| Fiscal Impact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                   |  | General Fund: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |  |
| Public Hearing: <input type="checkbox"/>                                                                                                                             |  | Action Item: <input type="checkbox"/> Attachments: <input type="checkbox"/>       |  |
| Commission Action Required: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                      |  | Date: _____                                                                       |  |
| Public Notification: (E-Mail) Agenda and Meetings – City Council (01/27/10)                                                                                          |  |                                                                                   |  |
| Department Approval:<br>Charles D. Herbertson (01/22/10)                                                                                                             |  | City Attorney Approval:<br>Carol Schwab (by H. Baker) (01/26/10)                  |  |
| Chief Financial Officer Approval:<br>Mark Scott (by M. Noller) (01/26/10)                                                                                            |  | City Manager Approval:<br>Mark Scott (01/27/10)                                   |  |

**RECOMMENDATION:**

Staff recommends that the City Council approve the final plans and specifications and authorize advertising bids for the Braddock Pump Station Upgrade Project, P-873.

**BACKGROUND:**

The Braddock Pump Station (Braddock Station) is located at the northeast corner of the intersection of Braddock Drive and Sawtelle Boulevard. Sewer flows from a 720-acre area of Culver City and abutting portions of the City of Los Angeles flow to the Braddock Station and are pumped into a force main in Braddock Drive to the City of Los Angeles' West Los Angeles Interceptor sewer in Overland Avenue. Approximately 1,500,000 gallons of sewage are pumped through the Braddock Station on a daily basis. The Braddock Station's last major upgrade was in 1986.

In recent years, operational problems have plagued the Braddock Station. Sediment buildup often causes sporadic reductions in pump efficiency. The existing gravity inflow pipe connects to the existing wet well at its bottom, and any rise in the wet well level causes the upstream piping system to flow full creating a situation where it is difficult to clean or inspect this system. In addition, there has been a frequent problem with rags clogging pumps at this station. Due to these operational problems, the SCADA alarm system is often triggered when sewage in the collection well rises higher than pre-determined setpoints. The Public Works Department Maintenance Operations Division staff is forced to pay close attention to the station and is frequently called-out on overtime to tend to station maintenance.

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**DISCUSSION:**

On May 11, 2009, the City Council approved a Professional Services Agreement with PRP Engineering, Inc. to provide design services for the upgrade of the Braddock Station. The design presented for the City Council's approval addresses all issues that were recommended in the study report prepared by PRP Engineering, Inc. and APD Consultants, Inc. to identify the ongoing maintenance issues of this sewer pump station. The design includes the following upgrades:

- Construction of a larger and deeper concrete wet well, while maintaining the existing wet wells to provide additional capacity. The new wet well will include a lower pre-rotation basin that will create a localized vortex, enabling the floating sediments, grease balls, and rags to be efficiently pumped out of the wet well.
- Installation of more powerful submersible pumps - These pumps are designed to be more efficient for the removal of all sediments (including rags) from the wet well, easier to remove and replace, and are variable speed for a more energy efficiency design.
- Replacement and upgrade of the existing sewerage monitoring and alarm systems.
- Replacement of the existing 24-year old emergency generator with a new generator that will be self-testing, more reliable, and have a more efficient fuel usage rating.

The plans and specifications are available at the Engineering Division public counter for review.

Should the City Council approve the plans and specifications and authorize advertisement for bids this evening, it is anticipated that the project will be presented to the City Council for consideration of contract award in April 2010. Should a construction contract be awarded, construction is slated to begin in June 2010 and be completed by March 2011.

**FISCAL ANALYSIS:**

This project will be funded from the City's Capital Improvement Project P-873 (Braddock Pump Station Upgrades - 20400873), which has an adopted budget of \$1,950,000.00. The engineer's estimate that this budget was based on did not include the replacement of the existing emergency generator nor the requirement that the contractor employ security guards during night time and weekend hours. An important component during construction will be the installation of a temporary

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sewerage by-pass system that must be deployed during most of the project's construction period. The piping for this by-pass system will be located on the surface and be subject to potential vandalism, thus the need for on-site security. The cost for these additional items is estimated to be \$70,000 for the new generator and \$75,000 for the services of a security guard for the estimated ten month construction period. Depending on the competitive bid results, a budget amendment from the sewer enterprise fund reserve may be required at the time of contract award.

**MOTIONS:**

That the City Council:

1. Approve the final plans and specifications for the Braddock Pump Station Upgrade Project, P-873; and,
2. Authorize advertising for construction bids for the Braddock Pump Station Upgrade Project, P-873.