OPERA GRANT REPORT
CITY OF LAKEVILLE

Date: September 28, 2011

Project Title: Catch Basin Maintenance/Repair Trailer

Project Number: 2010-14

Agency: City of Lakeville

Person Completing Report: Troy Grossman

Project Leader: Troy Grossman

Phone Number: 952-985-2714

Problem:

The City of Lakeville Streets Division has been rehabilitating many storm sewer structures and catch basins over the last few years. The problem with our previous method was space and organization. The tools, materials and equipment would be loaded into two or three trucks to have everything you needed on the job site to complete the repairs.

Solution:

The solution was to use an existing 15,000 lb. trailer and design it to be used for catch basin repairs and maintenance. All the necessary equipment and materials will be readily available on the trailer.

Procedure:

Upon receiving notification of the OPERA Grant, the Streets Division staff discussed what priority equipment and materials should be available on the trailer.

The City had a service crane installed on the rear curb side of the trailer for easy access to the catch basin manhole. The City also purchased a cement mixer, water tank and a storage container. All of the steel fabrication and placement of equipment was performed by City staff.
The trailer used for this project was scheduled for replacement in 2011. The justification to continue the use of it in this application was approved, which made the project a success along with the grant.

**Results:**

The Streets Division has only had the trailer in service a short time. However, the City had time to recognize savings in different ways. When staff is required to do a repair it is as simple as connecting the trailer. Everything needed is readily available. Time spent in the shop loading tools, supplies and materials for the project is no longer is an issue. This also is the case when the job is completed staff no longer has to unload and put items away. Time is saved on both ends.

The trailer is designed not only for convenience but also safety. The service crane and cement mixer are installed on the curb side of the trailer to keep staff out of the traffic lane whenever possible. The majority of the work is performed on the curb side of the street and boulevard when working on catch basins.

The trailer is equipped with traffic control devices. Signs and cones are used every time the trailer is in operation and the truck used to pull the trailer is fully equipped with strobe lights. The service crane is used whenever heavy lifting is required. The steel castings, lids and ring sections are removed and adjusted by aid of the crane. If a repair requires large amounts of cement the crane can be used to lower the product into the manhole for invert replacement. The goal is to protect staff from back injuries and muscle strain.

**Implementation:**

The Streets Division uses a one ton truck with a dump body to pull the trailer. When a project requiring this trailer arises, two staff members will take this unit to the job site and perform what needs to be done. The one-ton truck is there for debris removal and all equipment is on the trailer. Before the trailer was available, it would require two or more trucks on the job to get equipment to and from the site.

The trailer is designed for storm sewer catch basin maintenance and repairs, but with all the equipment and supplies included it will be an asset on sidewalk repairs, water main repairs, sanitary sewer casting adjustments and curb repairs.
**Status:**  Complete and in use

**Total Duration of Project:**  Three months

**Project End Date:**  September 30, 2011

**Approximate Cost of Entire Project:**  $7,600.00

**Total OPERA Funds used for project:**  $3,500.00