

# Site Infrastructure Maintenance and Rehabilitation Services

**CEC engineers, construction managers and field superintendents perform infrastructure assessments, develop recommendations to correct concerns, and deliver cost-effective repair, rehabilitation and maintenance services for site infrastructure.**



CEC inspects, monitors, maintains, restores, repairs and improves property infrastructure. The need for such services can arise from damage, age, poor maintenance of systems, and/or changing regulatory requirements. CEC's one-stop approach saves time and money, while assisting clients with compliance and maintaining the safety and aesthetics of their properties.

## STORMWATER FACILITIES

CEC inspects and maintains stormwater facilities to ensure stormwater infrastructure is functioning in accordance with design and regulatory requirements. CEC can provide stormwater facility conversions from erosion control ponds to permanent stormwater detention/retention facilities. CEC's engineers and construction personnel are experienced with the design and functionality of the various types of stormwater best management practices (BMPs) used for controlling, treating and conveying stormwater runoff. These professionals assist in evaluating stormwater infrastructure while providing an effective monitoring, maintenance and turnkey construction program to extend and enhance a site or facility life.

## SITE SURFACE FEATURES

Site surface feature review and assessment is intended to identify areas and issues that need to be addressed to maintain the safety, stability and functionality of a site. The results of the review are used to develop recommendations for maintenance and remedial work. Such site surface features can include:

- Slopes and embankments
- Sidewalks and crosswalks
- Pavement markings and traffic signage
- Surface drainage controls, such as diversion ditches, swales, riprap, etc.
- Slope benches and drainage outlets

CEC offers review, engineering and construction management services to maintain your real estate asset.

## SITE UTILITIES

The location of utility infrastructure is an important element of property maintenance, particularly in the absence of as-built information, or if site expansions and/or modifications are proposed. To locate underground utility infrastructure, CEC offers a comprehensive scope of geophysical services and technologies. Geophysical methods can be used with video camera inspections of sanitary sewers and storm sewers to locate and evaluate existing conditions, while fire hydrant flow testing evaluates the water system flow rates.



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## **SITE LANDSCAPING**

CEC's unique mix of ecological, civil engineering, landscape architecture and construction management services enhances the natural environment of existing pond and landscaped areas – turning functional assets into amenities. CEC creates natural environments, installing native species and improving biodiversity to enhance water quality and reduce the amount of erosion occurring over time. CEC works with property management personnel to develop a sustainable approach to stormwater management and the landscape along with the appropriate maintenance schedules.

## **PARKING AND PAVEMENT**

CEC reviews existing site layouts to evaluate the efficiency of site parking, internal access roads and external driveways, and pedestrian and vehicular safety. CEC also manages pavement construction rehabilitation and maintenance, and utilizes the Pavement Surface Evaluation and Rating (PASER) or ASTM Pavement Condition Index (PCI) systems to assess existing pavements and parking lots. Subsurface explorations assess the as-built conditions and thickness of the existing pavement components and the pavement subgrade materials. CEC's geotechnical engineers develop cost-effective methods to rehabilitate pavements, and recommend programs to extend the life of the repaired pavement.