



Western Engineering Consultants, Inc.

PROJECT EXPERIENCE

2008

1015.001.00

Highlights

Western Engineering Consultants, Inc and RKS Structural were challenged to complete the Civil/Structural Engineering design within a tight budget and schedule.

Project Cost

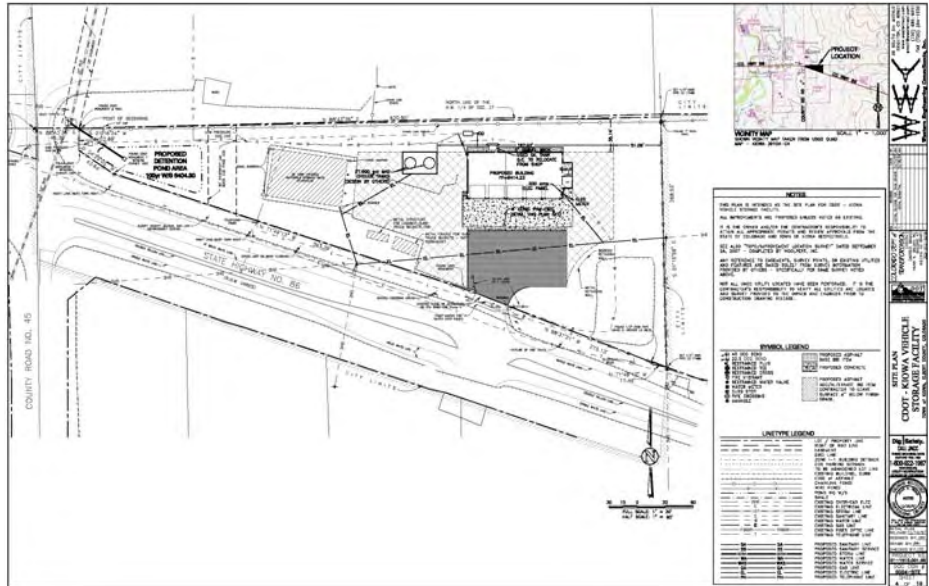
\$ 530,500 Construction
\$ 20,450 Engineering

Client

Colorado Department of Transportation

CDOT Vehicle Storage Facility

Kiowa, Colorado



Project Description

The existing CDOT Maintenance Site in Kiowa, CO consisted of an obsolete Vehicle Storage/Maintenance Facility (VSF), two small sheds and a sand shed. This project provided the site with a significant upgrade by virtue of a new 5-bay VSF and concrete foundation for a Magnesium Chloride Farm. The footprint of the new VSF was more than twice the size of the existing structure, plus it included a 25 foot apron outside of the bay doors. Due to the increase in building footprint and the need for the apron to drain away from the building, the slope from the entrance to the apron immediately became a constraint. In order to ensure the slope was manageable for the large CDOT trucks with plows attached, the proposed finished floor of the building was raised two feet above the finished floor of the old structure. With this constraint resolved, the remainder of the site design was straightforward, consisting of grading to tie back into existing grade and to direct runoff to the proposed detention pond, which released into an existing storm just off-site.



Before construction



After construction

