

CASE STUDY

HP Storm Pipe & Fittings Perfect Choice for Curvilinear Roadway

Box Elder, SD

OWNER

City of Box Elder, SD

ENGINEER

Avid4 Engineering, Rapid City, SD

CONTRACTOR

Dream Construction, Rapid City, SD

INSTALLATION DATE

Summer 2024

PRODUCTS

1,250' (381 m) of 48" (1200 mm) HP Storm pipe
Four 18" (450 mm) Inserta Tee®
Two 38° HP Storm 48" (1200 mm) mitered bends
Three 33° HP Storm 48" (1200 mm) mitered bends
Three 30° HP Storm 48" (1200 mm) mitered bends
One 24° HP Storm 48" (1200 mm) mitered bend
Four 22.5° HP Storm 48" (1200 mm) mitered bends
Two 7.5° HP Storm 48" (1200 mm) mitered bends

DESCRIPTION

The City of Box Elder constructed a new road between Interstate 90 and an adjacent railroad off of exit 61. In this vicinity are numerous hotels and the Box Elder Events Center. The new road was built to serve as an artery to move area traffic.

As part of the project, storm drainage needed to be installed beneath the roadway including parallel curvilinear 48" (1200 mm) storm sewer runs. As a result of the parallel pipe's proximity, the project's design engineer specified flowable fill to the spring line for all pipe types.



