

## SPECIALIST IN MODERN CONSTRUCTION



## **Project Challenge**

Water flowing from the highlands area in Lesotho, crossing the Peka road. A large culvert was required to channel the water and to minimise overtopping during the peak rainy season.

It was important that the structure accommodate the high flow capacity and not wash away during heavy rainfall.

## **Armco Solution**

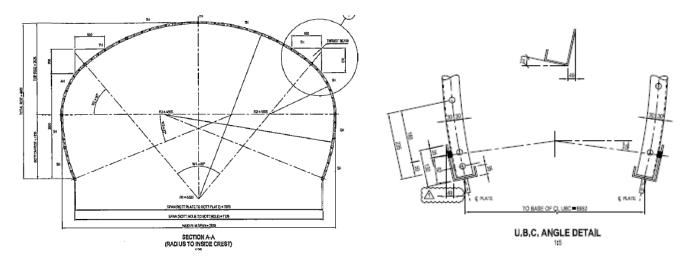
A Superspan high profile arch structure using a 5mm wall thickness installed on a concrete footing was recommended. The structure was bolted to the unbalanced channel.

A 600 x 300mm concrete ring beam using M20 x 300mm long anchor bolts was constructed at the inlet and outlet of the structure which formed part of the headwall to allow the structure to function monolithically.

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A concrete thrust beam was installed at the corner haunches of the structure to counteract the exerted forces at the change in radius on the Superspan structure.

## Conclusion

The benefits of selecting the Superspan structure for this project was the ease logistics of getting the structure to the remote site location, the quick installation time, and the overall cost of using the corrugated steel structure over a concrete structure.