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Case Study

# Getting ready for greener roads: Al Ain bicycle underpass, UAE

ViaCon supplies environmentally friendly, rapid-construction underpass solutions.

## THE CHALLENGE

In planning for a future road intersection on Al Bateen Track in Al Ain, the United Arab Emirates' Department of Transportation recognised the need for a bicycle underpass. The original design was a twin-box concrete passage, but in seeking a more aesthetic view and a more environmentally sound solution under almost the same conditions, they decided to rethink the approach and materials used.

## THE SOLUTION

The redesign for the underpass proved to align well with ViaCon's steel solutions. The combination of reinforced concrete foundations and a steel arch provided the most economical solution and the fastest installation. Once foundations were built, the steel arch assembly took just five days to complete.

Learn more at [viacongroup.com](https://www.viacongroup.com)

**VIACON**

# Al Ain bicycle underpass



## SPECIFICATIONS

Function: Bicycle track underpass for a future road

Product: Corrugated steel structure  
SuperCor SB-7H Spc

HL93\*1.5 load model according to AASHTO

Cover depth: 0.70 m – 0.90 m from structure's crown

Corrosion protection: Zinc coating and epoxy painting inside

## DESIGN

Span: 7.14 m

Rise: 2.55 m

Bottom length: 20.20 m

Top length: 16.16 m

## THE ADVANTAGE

The steel structure part of the bicycle underpass enabled:

- Faster time to project completion
- Ease of assembly, thanks to lightweight structural plates

- Environmentally friendly and aesthetically superior alternative to concrete
- No need for heavy equipment for installation
- Minimal disruption to traffic during construction

When projects require a swift conversion to a different material to corrugated steel, ViaCon offers flexible solutions.

ViaCon Turkey and ViaCon Middle East offer end-to-end consultation with customers to help them overcome construction challenges and meet environmental and sustainability goals.

## READ MORE AT

[www.viaconacademy.com](http://www.viaconacademy.com)



## CONTACT US

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