

## Jobsite Report

Souq Waqif & Ahmad, 1 + 2 pedestrian tunnel to Souq Waqif and Ahmad, built with an injection umbrella at the Corniche in Doha.

### Project:

Construction of 3 pedestrian tunnels in cooperation with company Bauer International

### Equipment:

A specially developed frame for quick execution of different heights, the HDD carriage is a 20t drilling rig FBS, developed bei ABS.

### Measuring technology:

an optical measuring system that does not allow a tolerance greater than 20 mm.

### Customer:

URBACON General Contracting

### Quantity:

Injection umbrella, 296 bore holes, length from 34 m to 56 m, total drilling of 14.123 m,

### Soil conditions:

backfill boulders, layer of sandstone, clay, shell

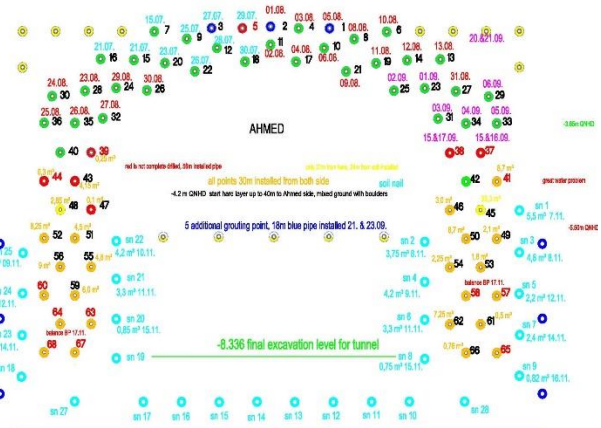
### Period:

November 2012 to September 2015

### Pictures:



back filled ground on the corniche



drilling to retain groundwater and stabilize the tunnel



## Jobsite Report



our self-built drilling rig for quick move between boreholes



As is so often the case when building, you see that you have to optimize.



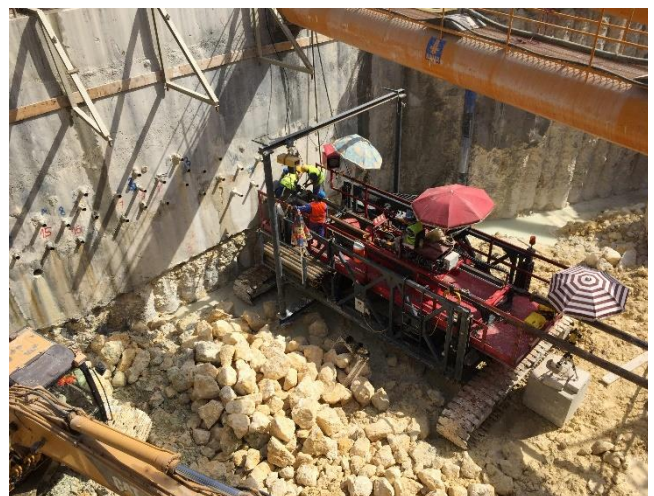
The drilling is monitored optically and by a monitor



optical total station is watching inside the drill pipe the pilot head



All boreholes require 100% drilling out of the pre-cored holes in the bored pile wall



difficult ground condition



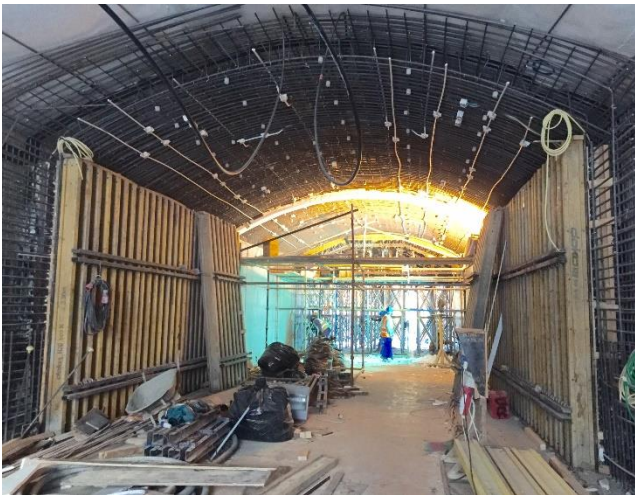
## Jobsite Report



*Excavation pit with drilling work to Souq Ahmad*



*Excavation work of the pedestrian tunnel*



*Interior of the pedestrian tunnel*



*waterproof interior work*



*finished escalator to the pedestrian underpass*



*very nice interior of the pedestrian tunnel*