



Lot 1505 Hamra

SHORING SYSTEMS

Soldier Pile Wall, Anchors, Shotcrete, Strutting,

Execution of a 21.3 m excavation using a shoring system composed of 60 cm soldier pile wall, supported by one layer of struts and two layers of anchors. Kingposts of 1 m diameter supported the bracing system. Shotcrete and cavity probing activities were done as well.

TOTAL CONTRACT AMOUNT: 1,767,912 USD

- Hamra 1505 is one of the most important projects executed by MGM Construction. The project included the enabling and excavation works for two buildings, a tower consisting of 6 basements, a GF and 21 upper floors, and a second building with 6 basements, a GF and 14 upper floors. The site is located over a surface area of around 2,015 m². A total of 100 soldier piles spaced at 2,2/2,4 m of 24 m length were executed on the periphery of the site. One level of struts and two levels of pre-stressed anchors supported the pile wall. A shotcrete facing covered the excavation surface. The project duration was 14 months including the excavation works.



General View of Excavated Site Area



Piling Operations under way

Client:	HAMRA 1505 s.a.l.
Management:	ASAM
Architect:	A-Consult
Main Contractor:	ABNIAH

Main Quantities
2,316 lm of 600 mm soldier piles
204 lm of 1000 mm kingpost
1,350 lm of Ground Anchors
142 lm of Capping Beam & struts
4,194 m ² of Shotcrete
51,560 m ³ of excavation



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View of site with excavation works underway



General View of site area



Smoothing of shotcrete facing