

# LPG STORAGE FACILITY

2015-2017

## Location

Bordj Menaiel, Algeria

## Client

Groupe Batimetal

## Estimated Cost

25.7 million EUR

## Stage

Detailed Design

## Area

22 420 m<sup>2</sup>

Naftal, an Algerian gas distribution and marketing company, has been refurbishing its LPG storage facilities, equipping them with high-end technology and establishing reference industrial parks in terms of modern and sustainable distribution service standards.

In line with Naftal's strategic vision, A1V2 participated in the elaboration of the detailed design of the Bordj Menaiel storage

facility, located approximately 80 km from Algiers. This 22 420 m<sup>2</sup> central comprises several buildings: Administration and Control Room, Technical Operations, Utilities and Supply, as well as all the facilities and networks required to support the labour process, including a guardhouse, electrical station, water storage tanks, filling and discharge stations, pallet storage area, LPG stock area, access roads and exterior networks, among other ancillary works.

## OVERVIEW





OVERVIEW

A1V2 was responsible for the following specialties: architecture, reinforced concrete structures, building infrastructure networks, namely, electrical network, water supply network, wastewater and stormwater network, HVAC, fire prevention network and telecommunication and video surveillance networks, as well as access roads—layout geometry, earthworks and paving.

Throughout this process, one of the company's first ventures in Algeria, A1V2 cooperated objective and pragmatically in the technical aspects of the project, searching for integrated solutions that best addressed the client's various and strict requirements imposed by a work of such nature.

The project is currently under construction and is expected to be completed in early 2017.

GAS STORAGE TANK  
CLOSE UP



WATER STORAGE TANK  
CLOSE UP



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The object of this study was the design of an LPG storage facility, to be built on a terrain of approximately 22 420 m<sup>2</sup>, located on the grounds of the existing Bordj Menaiel storage facility (Wilaya of Boumerdes). The plant is located 30 km away from Boumerdes and 80 km from Argel.

This plant includes facilities for a guard post, an administrative block, an electrical station, a utility building, a fire prevention water storage tank, a fire prevention water basin, a technical building, a supply pavilion, a pallet storage area, a GPL storage area, a pump station, a GPL loading and unloading station, a GO supply station and a hangar. The hangar and fire prevention water basin were preexisting.

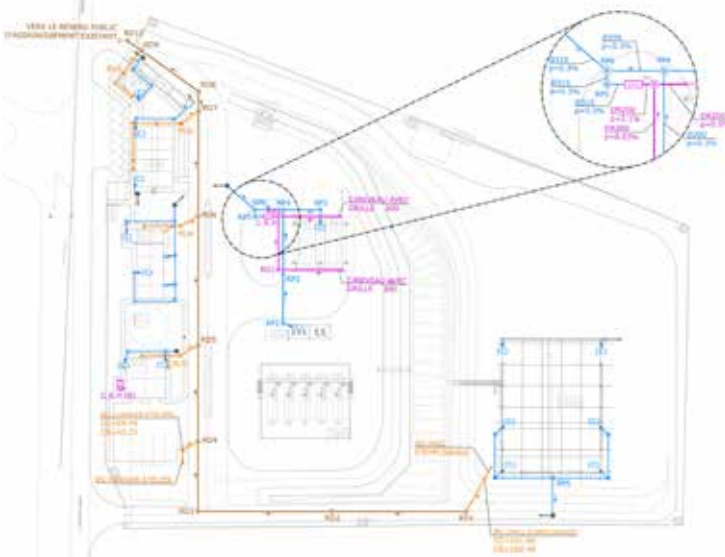
A number of 50 plant workers was estimated, based on the type of operations.

The domestic wastewater network and industrial sewage networks collect effluents originating in the buildings and in exterior facilities. The industrial sewage networks comprise the rainwater and oil- and hydrocarbon-tainted sewage networks, between the discharge and the pump station.

In some buildings, water spillage is expected from the washing of machinery. This water is collected by gutters and directed to the exterior of the buildings.

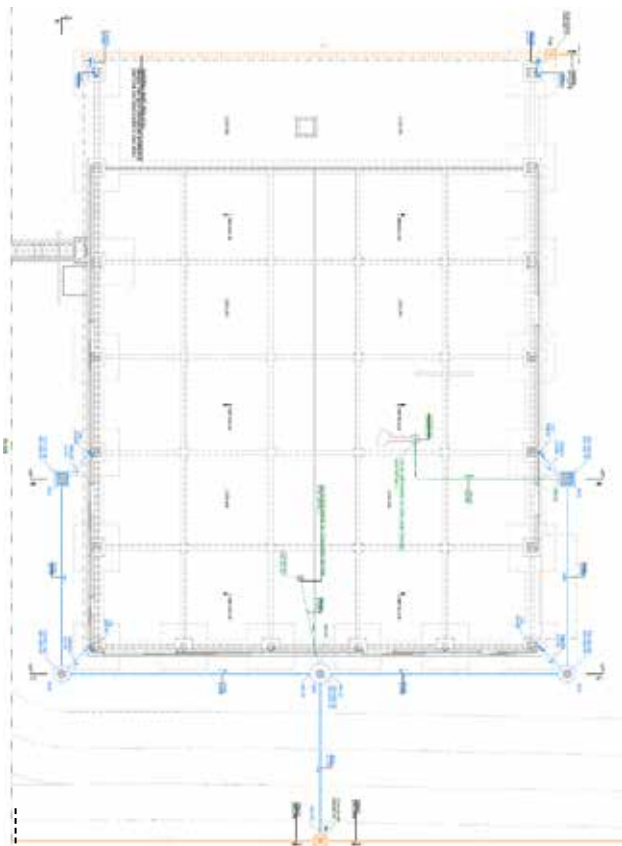
Water distribution systems were designed according to the architecture of the buildings, their structural characteristics, areas available for the location of the designed networks and type of equipment that is to be installed later.

DOMESTIC WASTEWATER AND INDUSTRIAL SEWAGE NETWORKS

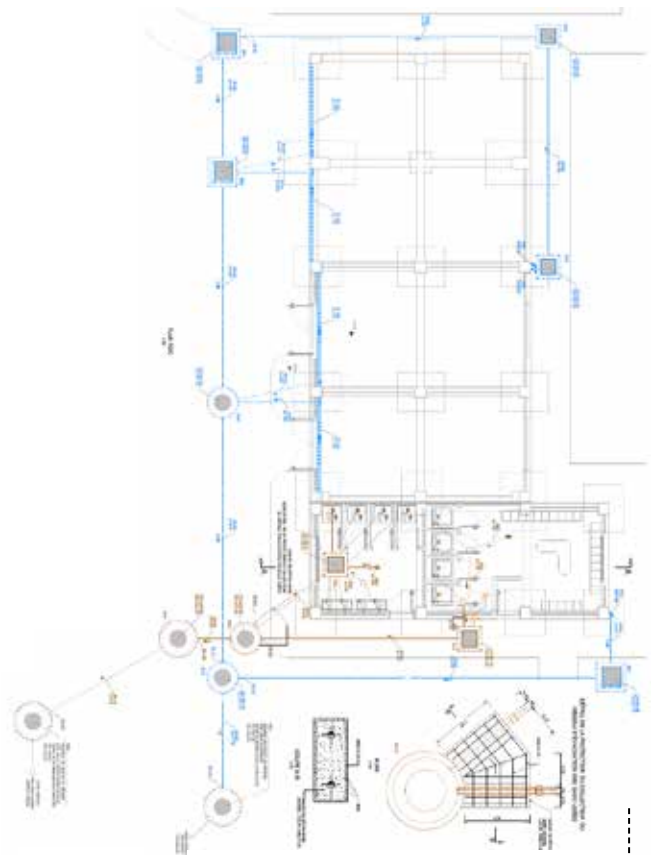


3D PREVIEW OF THE PLANT





PLAN OF THE RAINWATER AND WASHWATER DRAINAGE NETWORK



PLAN OF THE RAINWATER DRAINAGE NETWORK

SECTIONS OF THE RAINWATER AND WASHWATER DRAINAGE NETWORK

