



LINE 2 OF VALENCIA'S METRO, XÀTIVA-LINE 4 SECTION. MERCAT STATION INFRASTRUCTURE

CONTRACT DATA

ADMINISTRATIVE DATA

CONTRACT TYPE:

Consultancy and Technical Assistance Service for Works' Monitoring and Surveillance

CONTRACT NAME:

Direction of the works of the construction project of the Infrastructure of Line 2 of the Metro of Valencia. Section Xàtiva-Line 4

LOCATION: Spain

BUDGET: 2.518.401,24 €

CLIENT: Conselleria de Infraestructuras y Transporte, Generalitat Valenciana.

DATE (START-COMPLETION): November 2007-June 2014

TECHNICAL DATA

TOTAL PLANT-1 SURFACE	4.300 m
PLANTA 2 TO 7 SURFACE	6 x 3.650 m
DEPTH OF EXCAVATION	33 m
NUMBER OF JET GROUTING COLUMNS	1.420 uds
THICKNESS OF THE BOTTOM PLATE	6 m
DEPTH OF BACK BOTTOM	38 m
DEPTH UNDER THE SPEED LEVEL	23,50 m

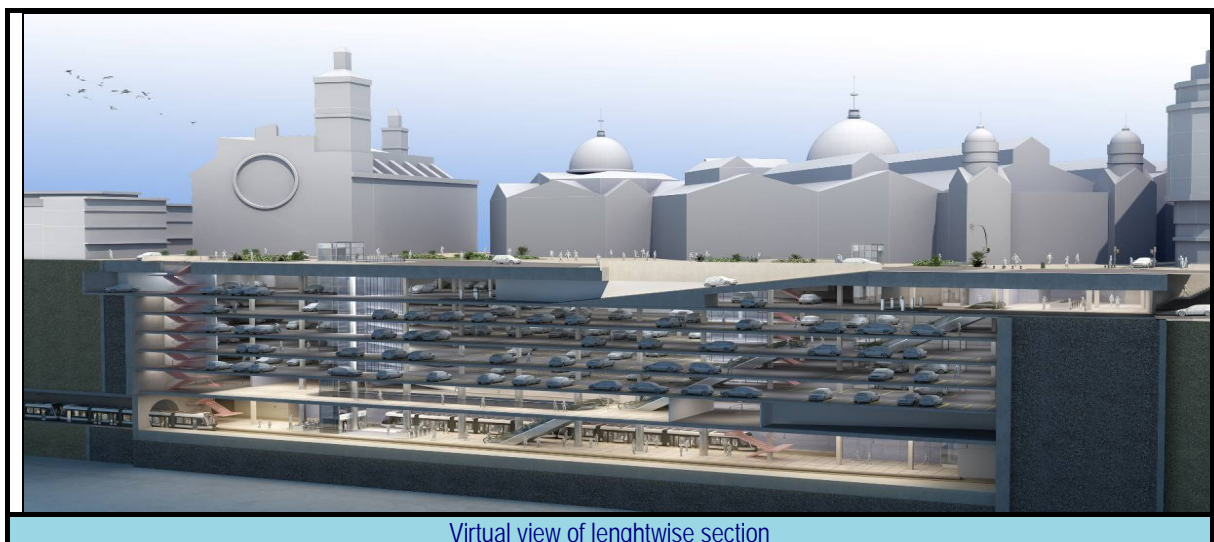
SCOPE OF THE WORKS

The works include the infrastructure for Mercat station on line 2 of the MetroValencia network and a five-storey, 450 space underground car-park located beneath Ciudad de Brujas square.

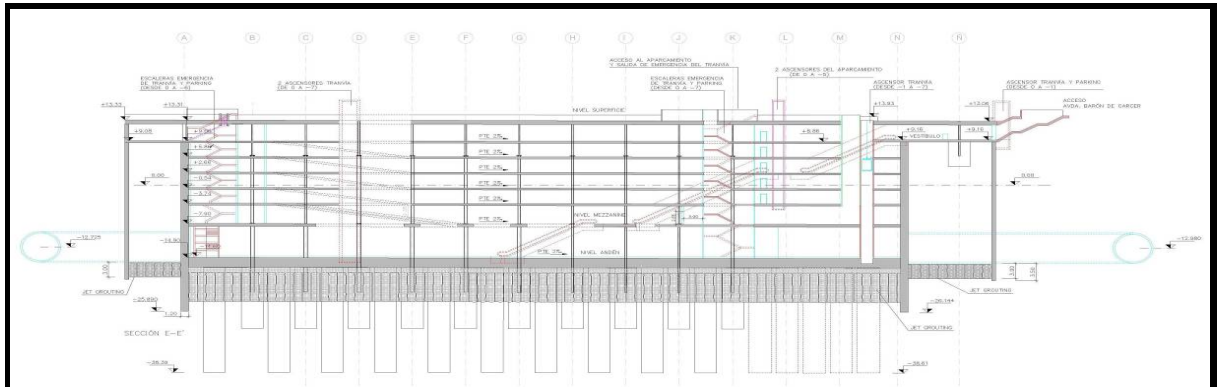
The project has designed a space in the shape of a prism, with a total surface area of approximately 3.400 m² (110 * 31 m.) and a depth of 30 m to the foundation slab that is the platform. The area is delimited by diaphragm walls reaching beyond the depth strictly necessary, thereby enclosing the projected bottom plug and ensuring that the excavation is made watertight against the infiltration of groundwater as the excavation deepens.

TASKS DEVELOPED

- Study of the works contract documents
- Review of the project
- Works logbook
- Check for changes in the specifications
- Check building equipment
- List the constructor workers and employees
- Revision and approval of minutes
- Unified awards for concepts in extra works
- Environmental management supervision
- Quality control at work



Virtual view of lengthwise section



Longitudinal section



Construction of perimeter diaphragm



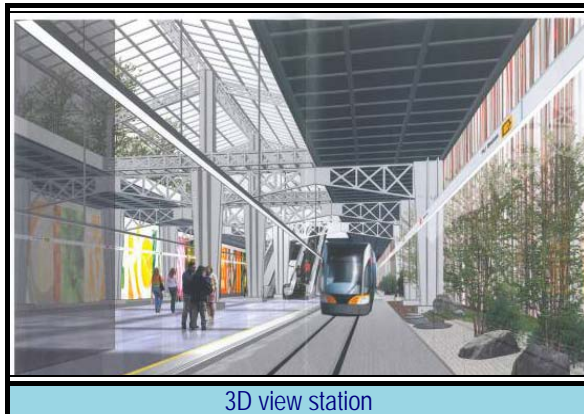
Excavation under slabs by means of "cut & over" method



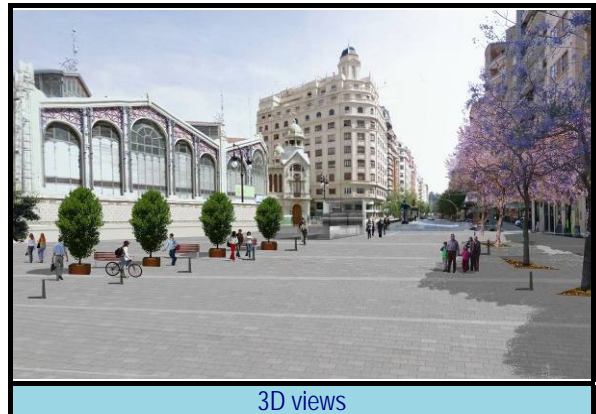
Construction of 2 m thickness foundation slab



Join treatment of the foundation slab is carried out to strict specifications



3D view station



3D views