



МЕТРО-СТУЛЬ

*Metro-Style 2000*  
• The Design company  
• Moscow, Russia



# METRO-STYLE 2000's objectives:

## **Design of underground transport structures:**

Road and railway tunnels, ducts (including oil pipelines), hydraulic tunnels, manifolds, pedestrian passages.

**Design projects for stations, tunnels and auxiliary structures** constructed by cut-and-cover or underground methods

**Design of special underground objects: Civil Defense structures, diesel power plants, filter-ventilating units etc.**

**Design of civil underground objects:** underground structures, parkings, storages

## **Design of underground structures:**

Industrial Safety problems

Technical translations



# Metro-Style

Established in December 1990

Almost 900 contracts for more than 350 Employers.

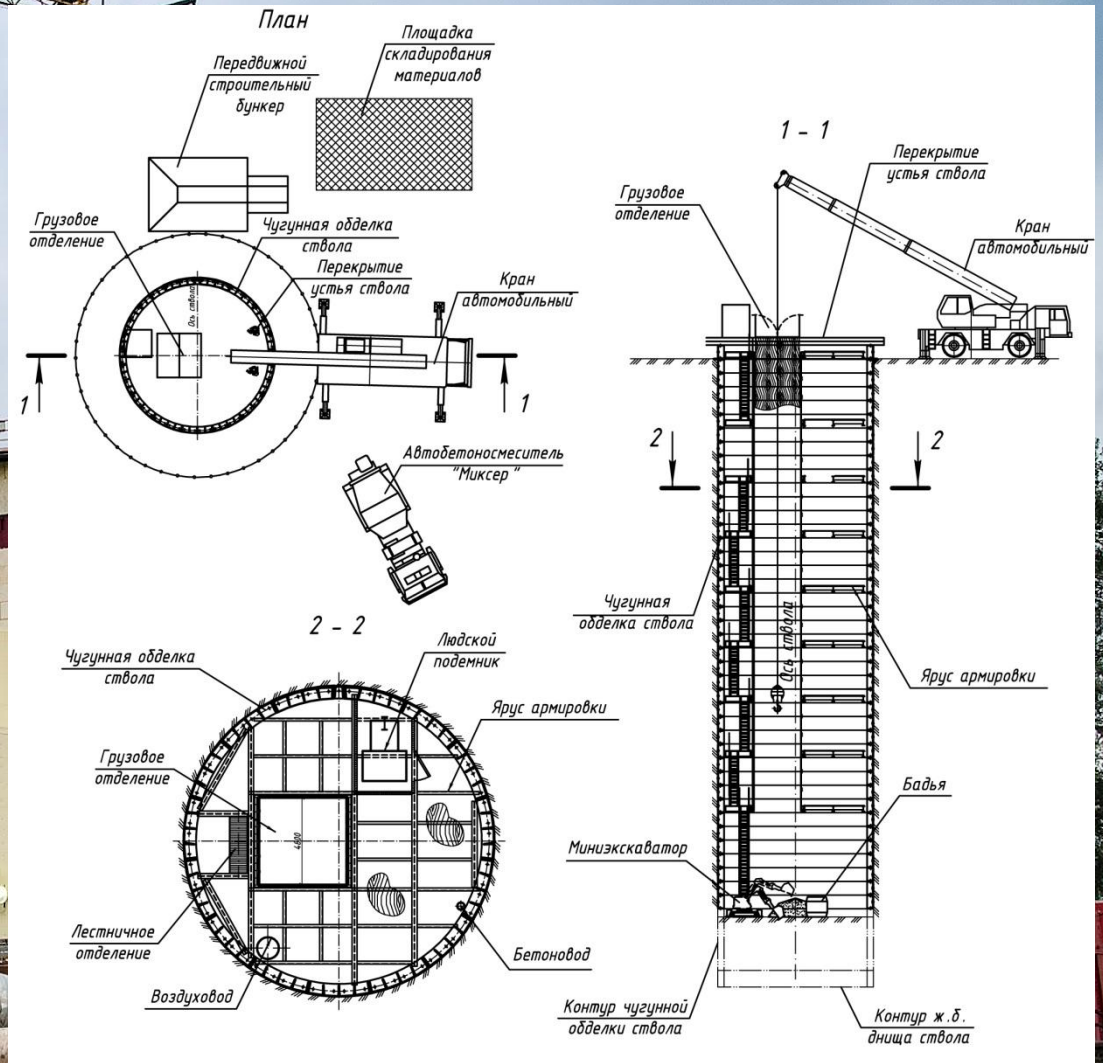
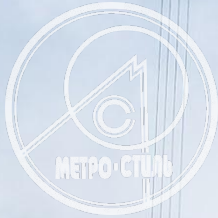
About 150 workers in staff

Our scope of activities cover Moscow, Ekaterinburg, Gelendzhik, Iran, Tadjikistan, Afghanistan etc.

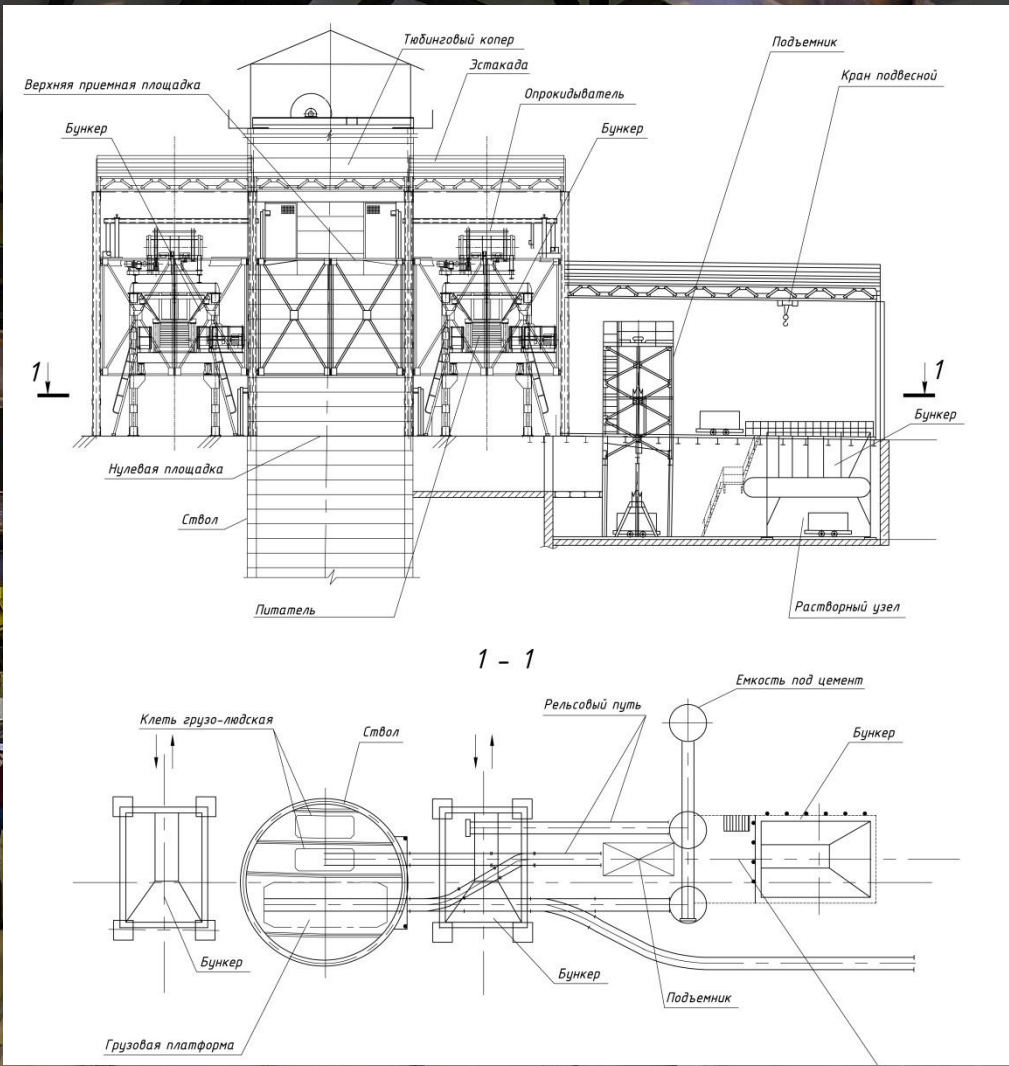


# Structure

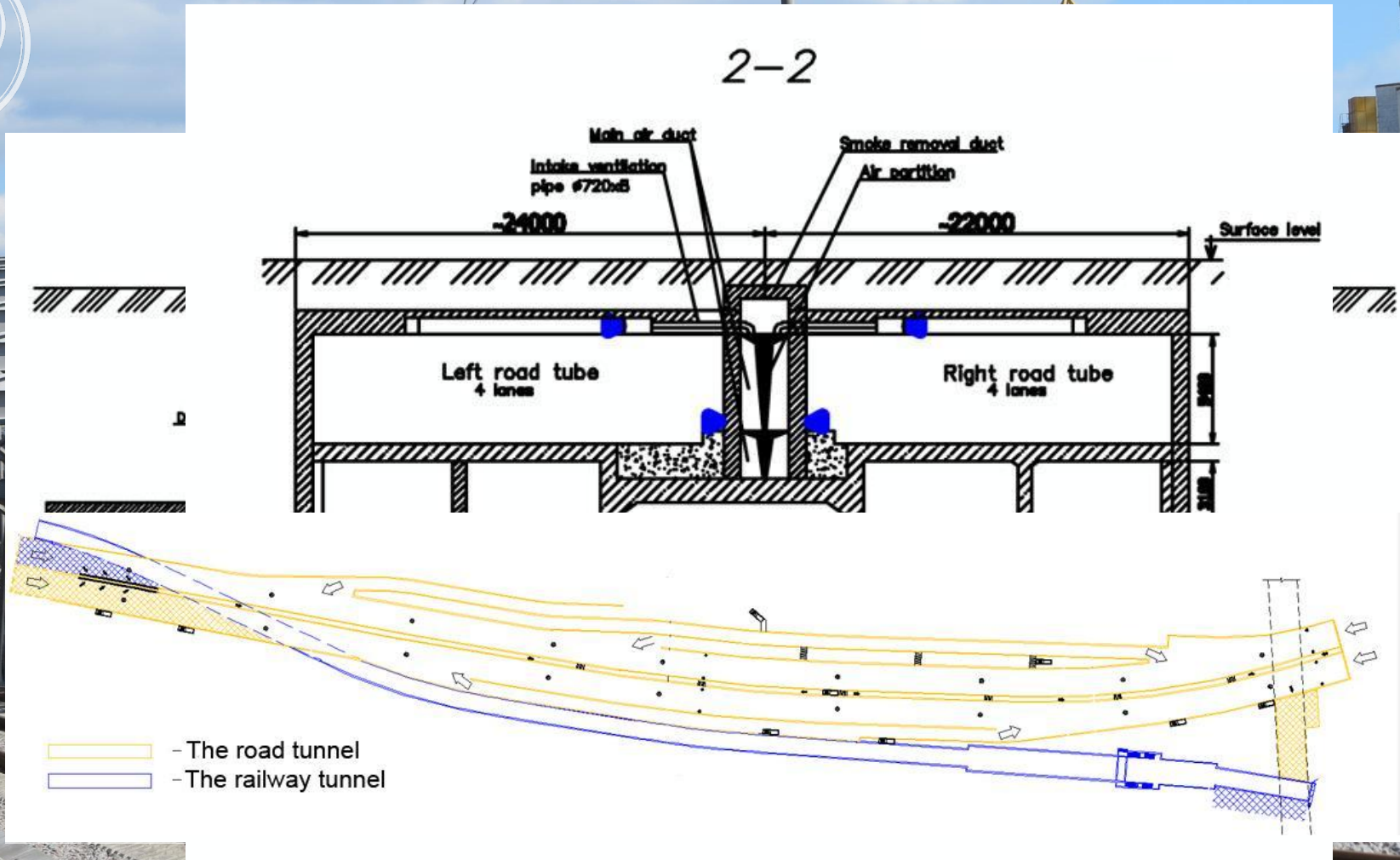
• Project managements  
• Construction organization management  
• Structural design  
• Power supply, automatics and communication design department  
• HVAC Departments  
• Architectural design  
• Cost estimation department  
• Geological research dept.  
• Group of planning  
• Publishing dept.  
• Treaty dept.  
• IT dept.  
• Legal division  
• Record storage



Design of metro stations, tunnels and auxiliary structures by cut-and-cover and underground methods



Design of metro stations, tunnels and auxiliary structures by cut-and-cover and underground methods



The urban road and railway tunnels under Gagarin square in Moscow



An additional industrial pipeline from Grushovaya bulk plant to Sheskhariz bulk plant through Markhotsky mountain ridge

Tunnel length is 3233.8 m. with slope  $i = 0.019\text{m}$  with the North-South direction and the form of tunnel on all of the terrace is rectangle.

The terrace passes almost parallel the existing pipeline (at a distance of 25 m) laid in technological tunnel N<sup>o</sup>-1 which was built in the 1970.

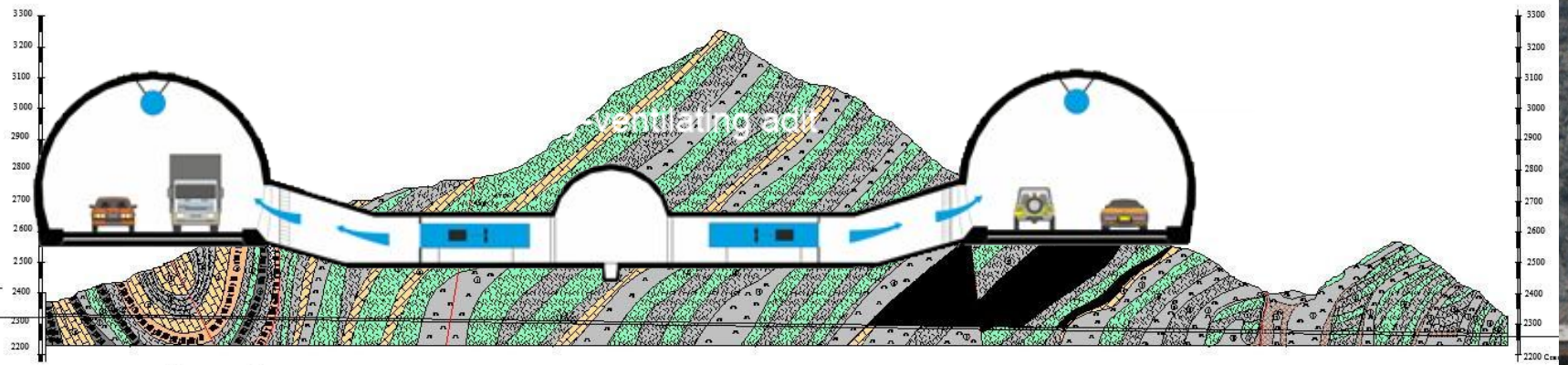
The main parameters of the ventilation system in this project provide the necessary ventilation tunnel by using natural draft factor for minimally open the part of tunnel section 15.73 and taking into account the internal space of the tunnel blockage process piping, cable seals, monitoring equipment and ensure safe operation.





## Taloun tunnel in Iran 4.8 km long

Longitudinal geological section along Taloun exploratory adit axis Scale 1:5000



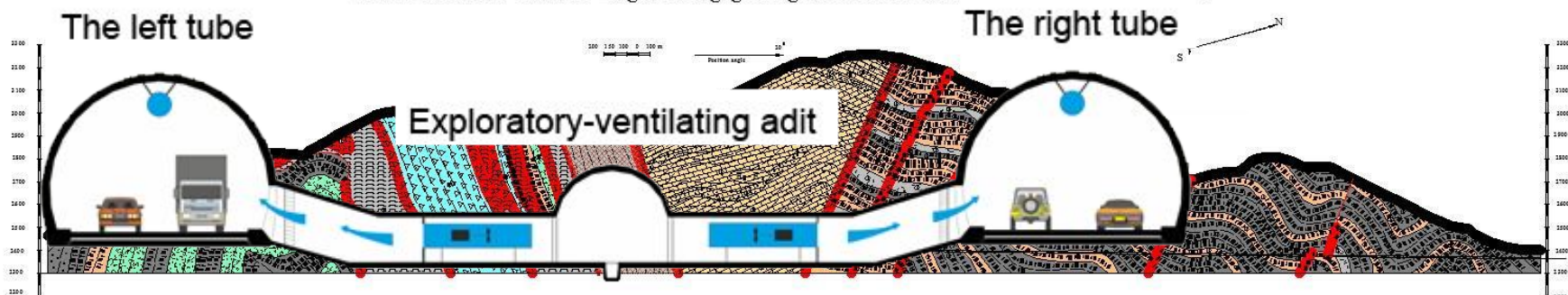
### Legend

- |  |  |  |  |
|--|--|--|--|
|  | - Tunnel route   |  | - Psammitic and silt glaucous tuffs, pelitic in places |
|  | - Rock bedding   |  | - limestone  |
|  | - Tectonic failure   |  | - sandstone  |
|  | - Tectonic failure zone  |  | - siltstone and claystone                              |
|  | - Fine and medium grained grey and dark-grey andesite, porphyric in places |  | - tuff-shale   |

8 1 01



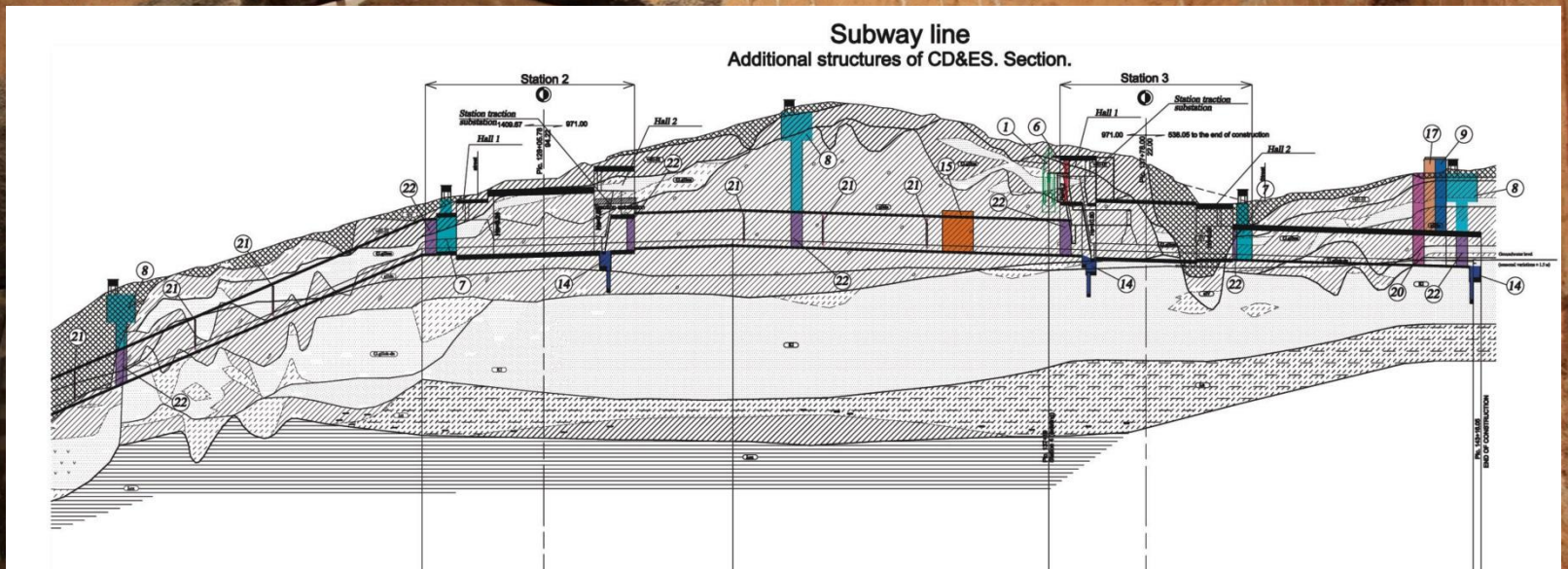
Alborz Service Tunnel. Engineering-geological section along adit axis. Scale 1:5000



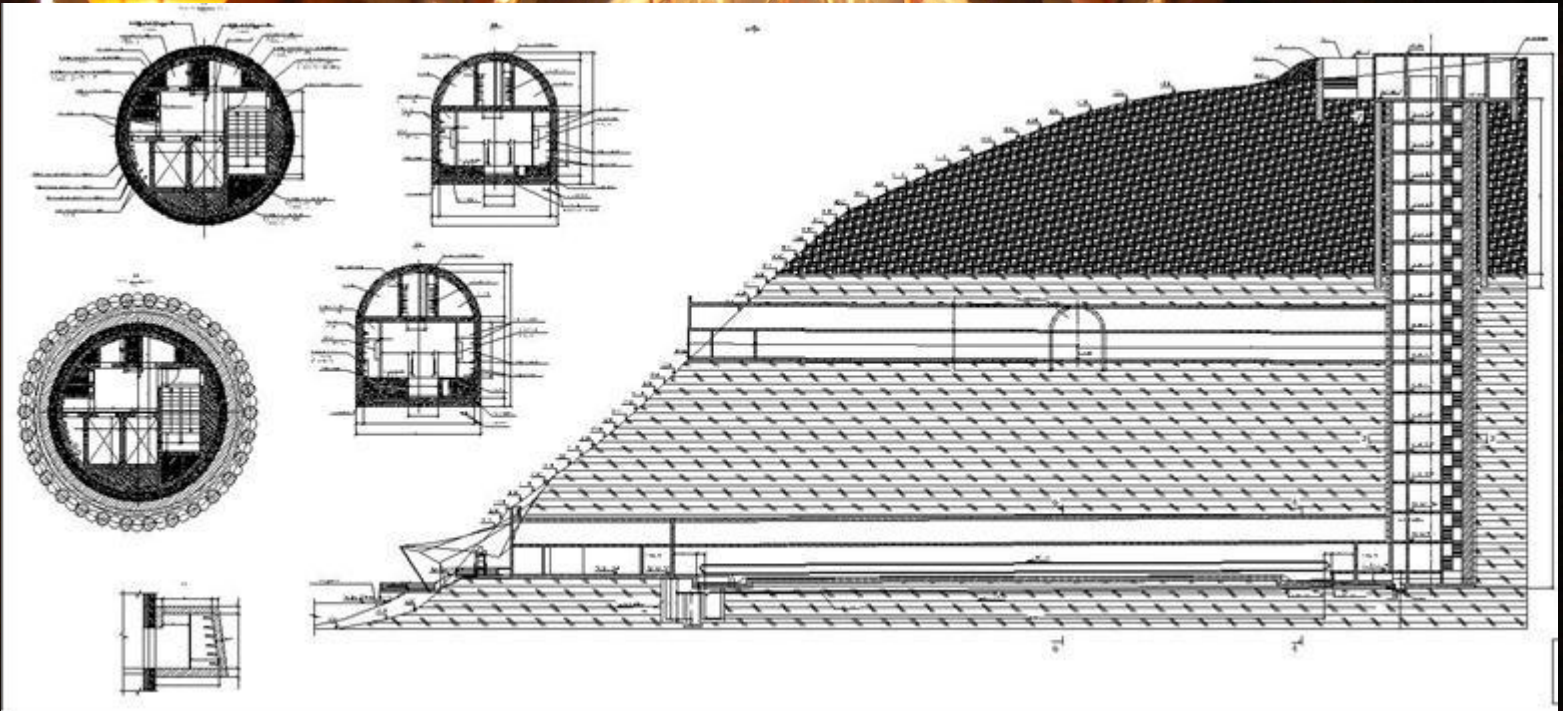
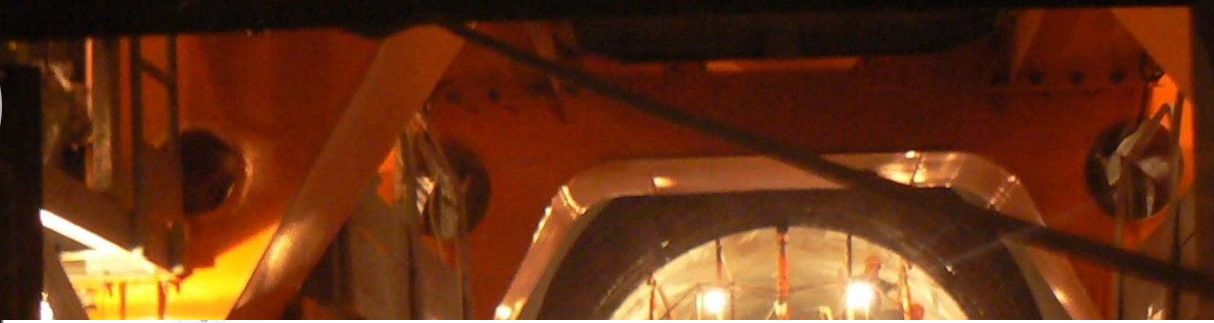
Legends

- |  |                          |                          |                      |
|--|--------------------------|--------------------------|----------------------|
| - Tectonic failure   | - Lithologic rock border | - greenish tuffs         | - sandstone          |
| - Tunnel route   | - Rock lamination        | - gray-pink limestone    | - tuff shale         |
| - Geological age of rocks (E <sub>1</sub> E <sub>2</sub> ) | - tectonic failure zone  | - кремнистые сланцы      | - gray quartzite     |
|  |                          | - siltstone and mudstone | - limestone breccias |
|  |                          |                          | - gypsum             |

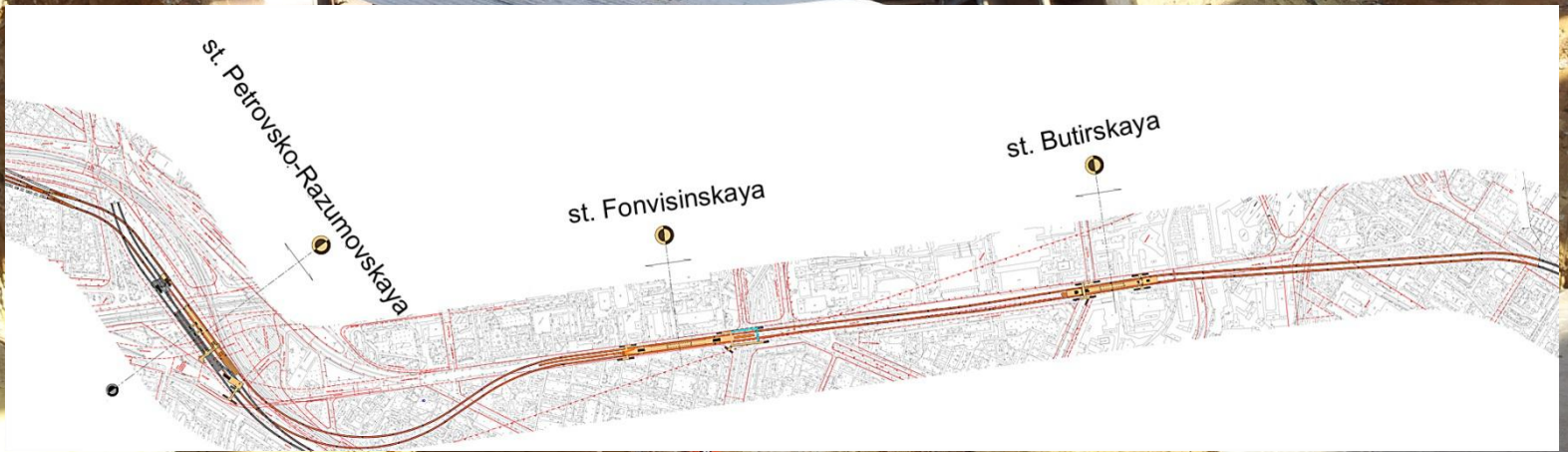
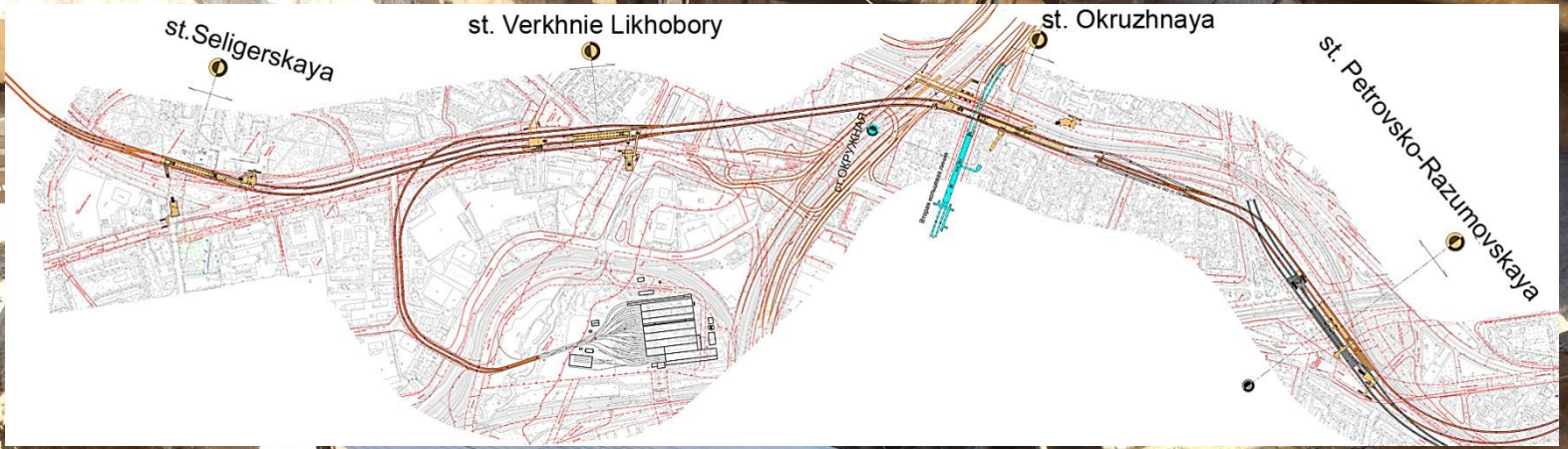
Alborz tunnel in Iran 6.3 km long



The section of Lublinskaya-Dmitrovskaya metro line, Moscow, from Marino station to Zyablikovo station



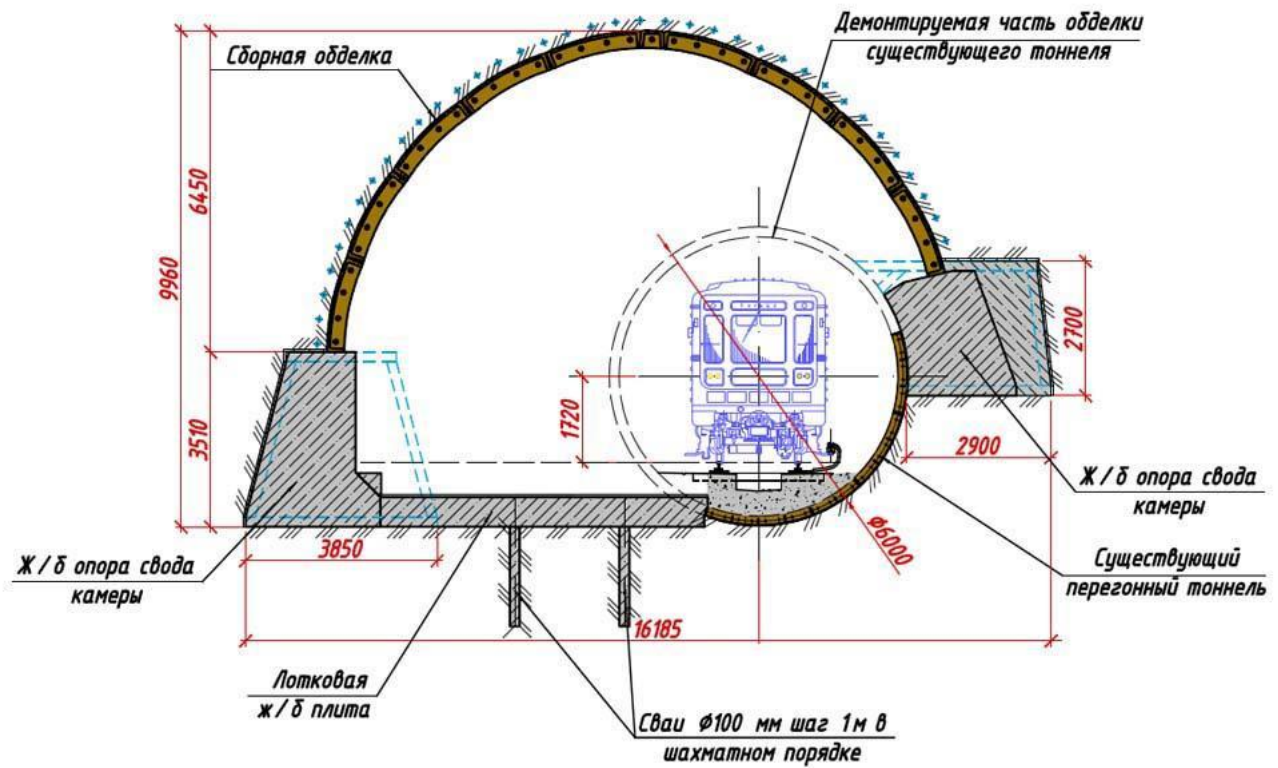
Underground complex for the hotel of Gelendjik town, Krasnodarsky area



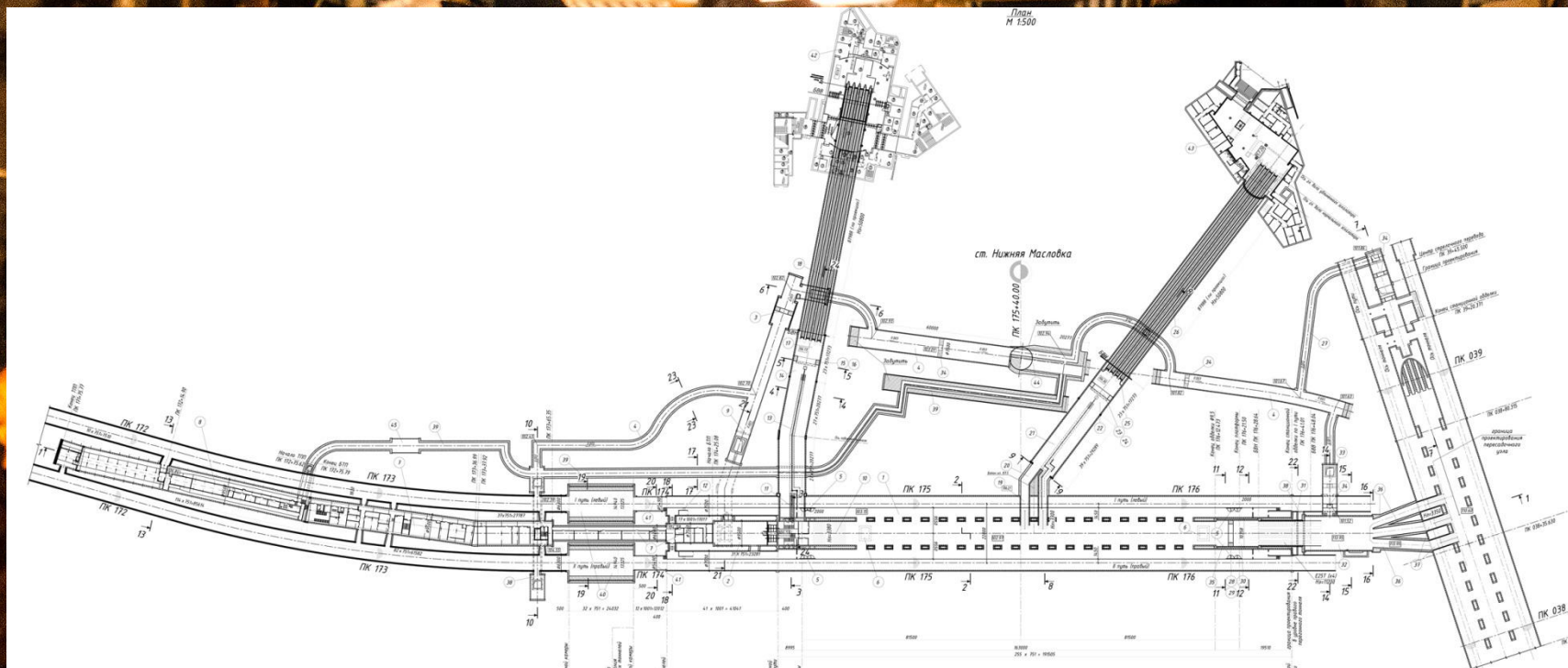
The layout of Lublinsko-Dmitrovskaya line section in Moscow from Marina Roscha station to Petrovsko-Razumovskaya station



Spartak station (former Volokolamskaya) of Tagasnko-Krasnoyarskaya metro line in Moscow



Suvorovskaya station of the existing Lublinskaya-Dmitrovskaya metro line in Moscow. The interchange to the Ring line at Dostoevskaya station (co-designed with METROGIPROTRANS Co.)

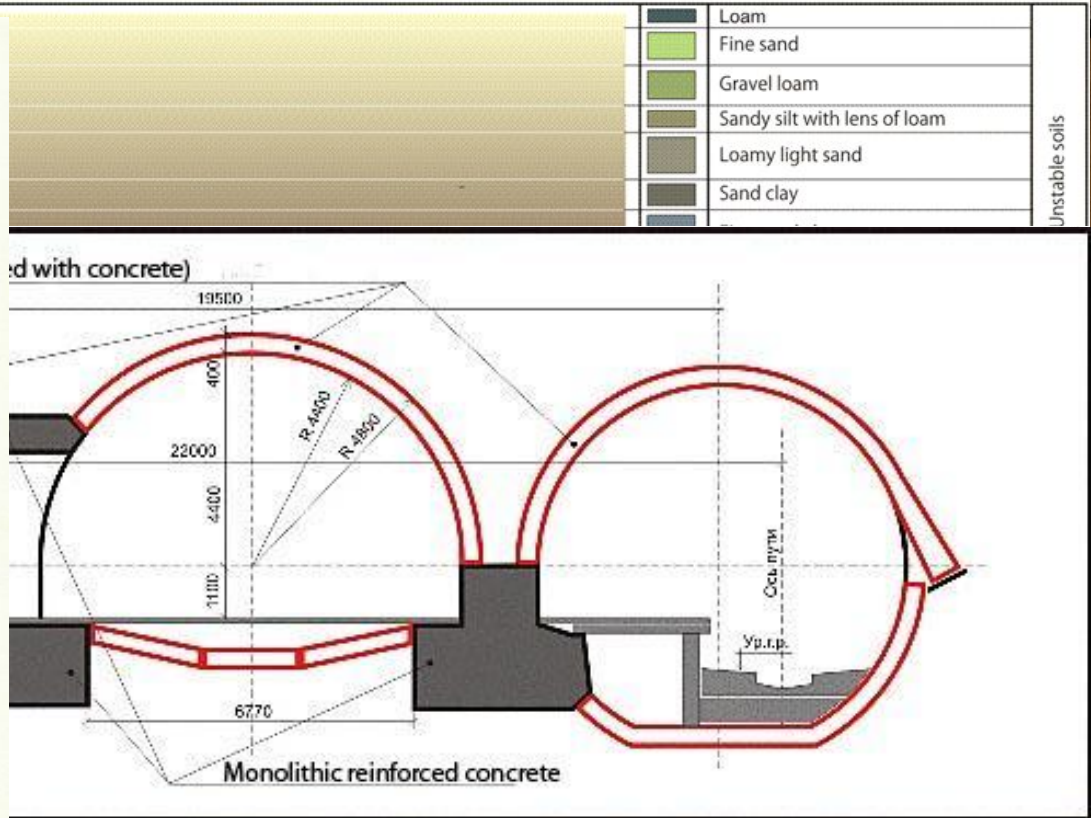


Nizhnjaja Maslovka station  
Third interchange circuit of the Moscow metro





## Station location



The station "Park Pobedy"  
Arbatsko-Pokrovskaya line of the Moscow metro



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