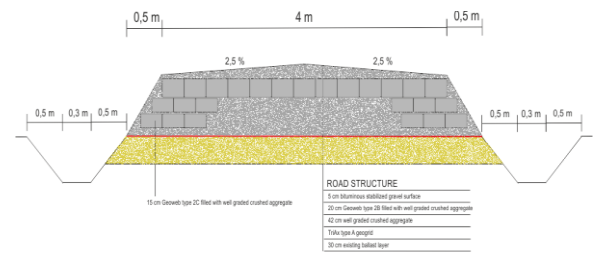


PROJECT DESCRIPTION
EARTH- AND TRAFFIC ROUTE CONSTRUCTION
ACCESS ROADS TO REMIDATION PLANT

Project: Bioremediation Plant
Location: Ciuperceni, Romania
Year: 2011

Design of access roads to a bioremediation plant in Ciuperceni, Romania



PROJECT DESCRIPTION

The existing road to the landfill and bioremediation plant for contaminated soils in Ciuperceni, Romania, consisted of an unbound surface on top of a 30 cm thick ballast layer, placed directly on top of the subgrade. The subgrade consists of clay with CBR value of about 2 %. Heavy traffic loads in excess of the road capacity leads to large undulations and ruts. Due to the road width traffic was only possible in one direction.



PROJECT FACTS

- Access road to 3.5 hectare Bioremediation plant with a capacity of 150.000 tons used for disposal of drilling and oil productions sludge
- Serviceability of existing road was not given due to damaged by heavy traffic loads
- Construction on soft subgrade with CBR-value of 2 %
- Target EV_2 -value on surface 120 MN/m²



OUR SERVICE

- Geotechnical Consultancy
- Analysis of soil mechanical parameters and field test results
- Determination of soil mechanical design parameters for design
- Serviceability design according to developed design method for geocell stabilized base layers
- Ultimate limited state design of new road construction
- Consideration of geogrid and geocell combination within the design