

عنوان مقاله:

Study of Rehabilitation Options for Heroes Tunnel: A New Approach

محل انتشار:

دومین کنفرانس بین المللی یافته های نوین پژوهشی در مهندسی عمران، معماری و مدیریت شهری (سال: 1395)

تعداد صفحات اصل مقاله: 10

نویسندگان:

,Mohammad R. Jafari - *Principal Tunnel and geotechnical Engineer, CDM Smith, USA*

,Babak Vafaei - *MSc in Geotechnical Engineering, University of Tafresh*

,Nasser Arafati - *Associate Professor, University of Tafresh*

,Khadijeh Shirzad - *MSc in Computer Engineering*

خلاصه مقاله:

Built in 1940's to provide a key roadway arterial between New York and Boston, the Heroes Tunnel is the only highway rock tunnel in the state of Connecticut and is part of the Wilbur Cross Parkway. This 365.0 m long tunnel consists of two barrels, each with two lanes of traffic, and carries over 71,000 vehicles per day. For nearly 70 years, the tunnel has seen millions of vehicles pass through but time has taken its toll and now the tunnel lining, ventilation system and radial section joints are significantly deteriorated and in need of rehabilitation. Owned and maintained by the Connecticut Department of Transportation (CTDOT), CTDOT initiated a unique managed approach to mitigate the risk, social impacts and financial implications associated with rehabilitation of this tunnel. This new approach consists of performing field inspection and conducting a comprehensive study to explore six rehabilitation options, including construction of new tunnels and enlarging the existing tunnels. The main criteria for this study are: Impact on traffic and the resulting delay cost; Construction cost; Construction duration; and Construction complexity. This paper will present the results of the alternative study

کلمات کلیدی:

Rehabilitation of tunnels, rock tunnel, roadway tunnels

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/499605>

