

YERKÖY-ŞEFAATLİ-KAYSERİ HIGH SPEED RAILWAY PROJECT

1

ROUTE

Route



- Project Route is located within the borders of 2nd Region, Ankara, TCDD (Turkish State Railways), within the provincial borders of Yozgat - Nevşehir - Kayseri.

This route connects to Kayseri Northern Passage Railway by passing through residential areas of Şefahtli, Kozaklı, Yenifakılı, Fehimli and Himmetdede by being connected from the exit of Yerköy Station, Yerköy - Sivas Railway, in which route construction works are ongoing. It shall also be ensured that the route is connected to Boğazköprü Logistic Centre by being connected to the conventional line available on the line.

Route



- Yerköy / Yozgat (population:38.925)
- Şefaattli / Yozgat (population:15.174)
- Kozaklı / Nevşehir (population:13.823)
- Yenifakılı/ Yozgat (population:5.509)
- Himmetdede (Kocasinan) / Kayseri (population: 393.300)
- Kayseri (population: 1.390.000)

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STRUCTURE INFORMATIONS

9 units of NATM Tunnel (Total: 13.096 m)

- T1 (KM:7+046 - 8+066), L=1.020 m
- T2 (KM:10+865 - 11+195), L=330 m
- T3 (KM:13+405 - 15+365), L=1.960 m
- T4 (KM:15+515 - 15+965), L=450 m
- T5 (KM:17+598 - 18+045), L=447 m
- T6 (KM:66+980 - 67+890), L=910 m
- T7 (KM:108+312 - 111+282), L=2.970 m
- T8 (KM:127+798 - 129+527), L=1.729 m
- T9 (KM:133+620 - 136+942), L=3.280 m

- **176 units of Culverts**
- **20 units of Overpasses**
- **79 units of Underpasses**
- **39 units of Agricultural Underpasses**

6 units of Cut-and-Cover Tunnels (Total: 3.205 m)

- AKT-1 (KM:5+800 – 6+270), L= 470 m
- AKT-2 (KM:21+000 – 21+830), L= 830 m
- AKT-3 (KM:50+665 – 51+255), L= 590 m
- AKT-4 (KM:62+465 – 63+285), L= 820 m
- AKT-5 (KM:102+990 – 103+103), L= 113 m
- AKT-6 (KM:107+930 – 108+312), L= 382 m

3 units of Platform

- Şefaati (Station)
- Yenifakılı (Station)
- Himmetdede (Siding)

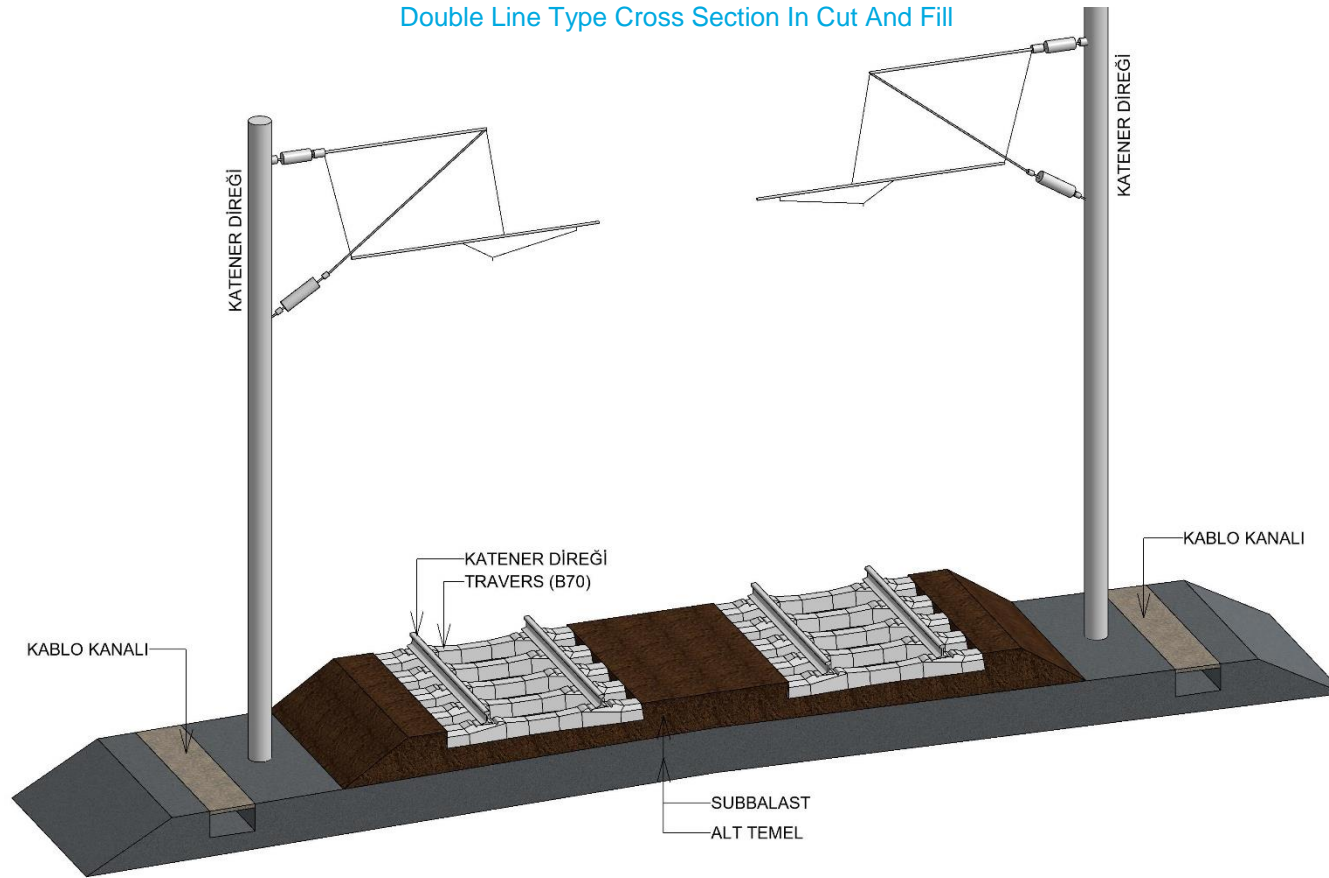
18 units of Bridges (Total: 2.394 m)

- K-1 (KM 1+100 – 1+163), L=62 m
- K-2 (KM 2+276 – 2+306), L=30 m
- K-3 (KM 4+163 – 4+193), L=30 m
- K-4 (KM 4+854 – 4+884), L=30 m
- K-5 (KM 8+464 – 8+786), L=322 m
- K-6 (KM 12+874 – 13+359), L=485 m
- K-7 (KM 16+209 – 16+401), L=192 m
- K-8 (KM 19+139 – 19+364), L=225 m
- K-9 (KM 22+413 – 22+446), L=32 m
- K-10 (KM 37+764 – 38+054), L=290 m
- K-11 (KM 46+059 – 46+089), L=30 m
- K-12 (KM 65+195 – 65+225), L= 30 m
- K-13 (KM 73+595 – 73+625), L= 30 m
- K-14 (KM 80+640 – 80+670), L= 30 m
- K-15 (KM 117+257 – 117+287), L= 30 m
- K-16 (KM 121+640 – 122+093), L=452 m
- K-17 (KM 127+082 – 127+112), L=30 m
- K-18 (KM 138+076 – 138+138), L=62 m

Amount of Construction Works included to the scope of infrastructure:

- Concrete (1,2 million m³)
 - C30: 503 thousand m³
 - C25: 365 thousand m³
 - C20: 247 thousand m³
 - Various : 85 thousand m³
- Shotcrete (251 thousand m³)
- Reinforcement (104 thousands tons)
- Steel timbering in tunnels (17 thousands tons)
- Excavation Works (46,4 million m³)
 - Route Excavation: 34,8 million m³
 - Borrow Excavation: 9,8 million m³
 - Tunnel Excavation: 1,8 million m³
- Route Backfill (10 million m³)
- Rock Fill (1,6 million m³)
- Selected Material (1,7 million m³)
- Ø 120 Cast-In-Situ Pile (64.3 thousand m)
- Construction of Deep Mixing Column in the Diameter of Ø 80cm (1,7 million m)
- Construction of any Type of Stone Column in the Diameter of Ø 70cm (0,9 million m³)
- IBO Bolt (2,5 million m.)
- Rock Bolt (364 thousand m.)
- Forepoling (1,3 million m.)

Amount of Construction Works included to the scope of superstructure:



- Total Line: 290.865 m
 - Open Line: 253.673 m
 - Concrete Road: 32.392 m
 - Bridge: 4.800 m
- Sub-ballasts: 1.422.493 tons
- Ballasts: 1.495.818 tons
- Rails: 35.968 tons
- Sleepers: 443.712 units
- Slab-track Panels: 6.950 units
- BAM: 25.864 m².
- Surrounding walls: 241.897 m