The E18 Highway
Hjulsta and Kista - Stockholm

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E 18 today
E 18 tomorrow
E 18 Hjulsta – Kista

- Improved accessibility
- Less accidents
- Environmental improvements (noise barriers, treatment of road storm water)
- Improved accessibility to parc landscape, Järvaflätet
- Enables the construction of new housing and business development
E 18 Hjulsta – Kista

Cost of project
SEK 4 000 million, ~ €400 million

Construction period
2009 – 2015
E 18 Hjulsta – Kista

- 4 preparatory contracts
- 10 main contracts
- 4 M&E installation contracts,
- Mainly construction contracts (no design)
- Tender documents should be clear and unambiguous, adapted to production methods and to give a fair distribution of risks
## Key Figures

- 4-lane highway: 8 km
- Interchanges: 6 nos
- Concrete tunnels: 1400 m
- Bridges: 30 nos
- Local roads

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete volume</td>
<td>130 000 m³</td>
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<tr>
<td>Asphalt pavement</td>
<td>550 000 m²</td>
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<tr>
<td>Soil excavation</td>
<td>840 000 m³</td>
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<tr>
<td>Rock excavation</td>
<td>260 000 m³</td>
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<tr>
<td>Concrete piling</td>
<td>75 000 m</td>
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<tr>
<td>Lime-cement columns</td>
<td>560 000 m</td>
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</tbody>
</table>
Interchange, Hjulsta
Cut and Cover Tunnel - Tensta
Viaduct at Löttingebacken
Viaduct at Spångadalen
Cut and Cover Tunnel - Rinkeby
Interchange, Rinkeby
Interchange, Ärvinge
Kista Interchange
Interchange, Rissne
Professional executed

- Sensitive recreation area/parc landscape and Igelbäcken
- Safety, for public, site workers, commuter, pedestrians, etc
- Traffic flow as normal, no reduction in lanes or speed
- Information to the public
Challenges during the construction phase

- Minimising disruptions to existing traffic
- Complicated geotechnical conditions
- Large structural work
- Proximity to Järvafältet, parc landscape
- Proximity to housing development
Relocated E 18/Kymlingelänken

Vägsträcka som läggs om under november och december.
Challenge...
Challenges during the construction phase

• Minimising disruptions to existing traffic
• Complicated geotechnical conditions
• Large structural work
• Proximity to Järvafältet
• Proximity to housing development
Statement of Vägverket

• E 18 Hjulsta – Kista should be experienced as being one (1) project
• A goal-oriented way of working
• Vägverket is an active and involved employer
• Good interaction between Vägverket and the contractors
• Transparency and understanding between all players
• Good co-operation with joint contractors and other interested parties
Relocated Kymlingelänk
Temporary bridge for pedestrians crossing E 18 at Hjulsta