



## Project Fact Sheet

Prague Bypass

Section 513 – two new green bridges over the motorway



### PROJECT

<b>Name</b>	Prague Bypass, section 512, structures SO 203 and SO 207
<b>Employer</b>	ŘSD ČR (Czech Highway Agency)
<b>Date of installation</b>	July (SO207) and September (SO203) 2009, each structure only 10 days of installation
<b>Consultant</b>	Pragoprojekt a.s.
<b>Contractor</b>	Metrostav as Division 4 in Joint Venture
<b>Scope</b>	Construction of two bridges over the new motorway carrying over local farm roads and bio-corridors

### FACT FILE

<b>Structure</b>	Precast twin arch structure combination 91 x 310
<b>Span</b>	2 x 19m (clear)
<b>Height</b>	9,5m (clear)
<b>Length</b>	50,0m (20 rings by 2,5m)

### REQUIREMENTS

- size of the bridge to allow pass through a motorway of 3+3 lines each with a hard shoulder
- Width of the bridge at the crown to be at least 30m for the wild animals
- Lower the risks connected with traditional in-situ procedures
- Quick solution on site with minimum impact on the site traffic management and close by environment

### SOLUTION

- Using precast arch system with flat base foundations
- Combination of 91 wall and 310 roof to allow basically 4 + 4 lines pass through
- Using precast wingwalls sloped 1:1,2
- End treatment of the backfill over the crown to be as naturally sloped embankment



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ABM Mosty s.r.o.  
Klariská 7, 814 21 Bratislava, Slovakia

ABM Mosty s.r.o.  
V Celnici 1034, 110 00, Prague, The Czech Rep.

ABM Mosty Sp z o.o.  
Ul. Zlota 59, 00 120, Warszawa, Poland

ABM Bridge Systems SRL  
Str. Paleogolu 24, Bucharest, Romania

Please visit our website for more information:

web: [www.abmeurope.com](http://www.abmeurope.com)

or contact us on:

email: [mosty@abmeurope.com](mailto:mosty@abmeurope.com)

mobile CZ: 00420 777 226 293

mobile RO: 0040 721 511 619

mobile PL: 0048 660 191 187