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NISKOGRADNJA

CIVIL ENGINEERING



NISKOGRADNJA

Uz visokogradnju, koja je primarna djelatnost Zagorje-Tehnobetona d.d., aktivnost poduzeća intenzivno je usmjerena i na niskogradnju. Zagorje-Tehnobeton d.d. u konzorciju s građevinskim kompanijama, ali i samostalno, izgradio je velik dio hrvatskih autocesta; pretežno vijadukte, mostove, nadvožnjake, podvožnjake, putne prijelaze i propuste, uglavnom više od 50 objekata sveukupne površine cca. 33.400 m².

U području cestogradnje do sada su izvedeni mnogobrojni zadaci na autocestama, u predviđenim rokovima i na veliko zadovoljstvo Naručitelja.

CIVIL ENGINEERING

Beside building construction, which is the primary activity of Zagorje-Tehnobeton, civil engineering also accounts for a large part of Zagorje-Tehnobeton activities. Whether as part of a consortium with other leading construction companies, or independently, Zagorje-Tehnobeton has built a large part of Croatia's highways, mostly bridges, overpasses, underpasses, level crossings and culverts, more than 50 objects in total, with an area of around 33.400 m².

In road construction, Zagorje-Tehnobeton has completed a large amount of work on the highways, on time and to the Client's full satisfaction.

Investitor:	HRVATSKE AUTOCESTE d.o.o. Zagreb
Investor:	
Rok izgradnje:	2 godine
Construction window:	2 years
Godina izgradnje:	2004.-2005.
Year:	



Autocesta Zagreb – Goričan

- dionica Varaždin – Čakovec (Most Plitvica), 2000 godina; izrađeno je 5.008,80 m³ nasipa i čunjeva, 266 m bušenih pilota, ugrađeno 2.018,00 m³ betona, te 1.064,26 t armature;
- dionica Varaždin – Novi Marof (nadvožnjaci V.Toplice, Ljubešćica i Boričevac, vijadukt Bukovje), 2004 godine; izrađeno je 2.383 m³ nasipa i čunjeva, izrađeno je 588 metara bušenih pilota, ugrađeno 4.811 m³ betona, montirano 1.656 m³ montažnih armirano betonskih „T“ nosača, te ugrađeno 853,68 t armature;
- dionica Breznički Hum – Novi Marof (most Rastovo Rebro i Paka, nadvožnjak Breznički Hum, zidove za zaštitu od buke), 2003-2004 godine, izrađeno je 3.187,36 m³ nasipa unutar krila upornjaka i čunjeva, ugrađeno je 6.767,30 m³ betona, montirano 2.983,20 m³ nosača raspona 29,60 metara, te ugrađeno 1.332,31 t armature.



Motorway Zagreb – Goričan

- section Varaždin – Čakovec (bridge Plitvica) year 2000.; 5.008,80 m³ of dam and cones and 266 m of drilled pilot was manufactured; 2.018 m³ of concrete and 1.064,26 t of reinforcement was built in;
- section Varaždin – Novi Marof (overpasses V.Toplice, Ljubešćica i Boričevac, viaduct Bukovje), year 2004.; 2.383 m³ of dam and cones and 588 of drilled pilot was manufactured, 4.811 m³ of concrete, 1.656 m³ of prefabricated reinforced concrete “T” beams and 853,68 t armature was built in;
- section Breznički Hum – Novi Marof (river Rastovo Rebro i Paka, overpass Breznički Hum, walls for noise protection), year 2003.-2004., 3.187,36 m³ of dam inside of the abutments wing

AC ZAGREB – SPLIT, Hrvatska MOTORWAY ZAGREB – SPLIT, Croatia

Investitor:	HRVATSKE AUTOCESTE d.o.o. Zagreb
Investor:	
Rok izgradnje:	2 godine
Construction window:	2 years
Godina izgradnje:	2005.-2006.
Year:	



AC Zagreb – Split

- dionica Benkovac – Pirovac (nadvožnjaci, putni prijelazi, podvožnjaci i prolazi), 2004 godine; ukupne površine od 6.132 m², izrađeno je 3.265 m³ nasipa i čunjeva, montirano je 2.954 m³ montažnih armirano betonskih elemenata, 2.782 m³ betona, te 1.254,83 t armature;
- dionica Pirovac – Skradin (vijadukti, prolazi, nadvožnjaci, mostovi), 2005. godine, izrađeno je 6.152,35 m³ šljunčanih klinova, ugrađeno 20.296,37 m³ betona, te ugrađeno 1.921,54 t armature;
- dionica Skradin – Šibenik (nadvožnjaci, putni prijelazi, podvožnjaci i prolazi), 2004 godine;
- dionica Maslenica – Zadar 1 (vijadukt Posedarje, most Baštica, nadvožnjaci i podvožnjaci) 2004 godine.



Motorway Zagreb – Split

- section Benkovac – Pirovac (overpasses, travel crossings and passes), year 2004; total area of 6.132 m², 3.265 m³ of dam and cones, 2.954 m³ of reinforced concrete prefabricated elements, 2.782 m³ of concrete, and 1.254,83 t of reinforcement was built in;
- section Pirovac – Skradin (viaducts, passes, overpasses, bridges), year 2005., 6.152,35 m³ boulder wedge, 20.296,37 m³ of concrete and 1.921,54 tons of reinforcement was built in;
- section Skradin – Šibenik (overpasses, travel crossings and passes), year 2004.;
- section Maslenica – Zadar 1 (viaduct Posedarje, bridge Baštica, overpasses and passes) year 2004.



NISKOGRADNJA

CIVIL ENGINEERING



AC KRAPINA-MACELJ, Hrvatska MOTORWAY KRAPINA-MACELJ, Croatia

Investitor:	Walter Motorway GMBH
Investor:	
Rok izgradnje:	2 godine
Construction window:	2 years
Godina izgradnje:	2007.
Year:	



Na AC Krapina-Macelj izgrađeno je 17 podvožnjaka, 7 prolaza i 2 mosta. Objekti građeni na trasi izvedeni su do potpune funkcionalnosti.



CIVIL ENGINEERING



At the Motorway Krapina-Macelj 17 underpasses, 7 passes and 2 bridges were built and completed to full functionality.

NISKOGRADNJA

AC ZAGREB-SPLIT-DUBROVNIK, sektor Split-Ploče, podsektor I, II, i III, Hrvatska
MOTORWAY ZAGREB-SPLIT-DUBROVNIK, section Split-Ploče, subsection I, II, i III, Croatia

Investitor:	HRVATSKE AUTOCESTE d.o.o. Zagreb
Investor:	
Rok izgradnje:	4 godine
Construction window:	4 years
Godina izgradnje:	2006.-2010.
Year:	



AC Zagreb-Split-Dubrovnik

- dionica: Dugopolje – Bisko – Šestanovac (vijadukti, nadvožnjaci, podvožnjaci, propusti), 2006 – 2010 godine (8.466,40 m²), ukupno ugrađeno 2.286,16 m³ prefabriciranih montažnih elemenata;- dionica: Šestanovac – Zagvozd – Ravče (podvožnjaci) 1.489,24 m², te ukupno ugrađeno 595,70 m³ prefabriciranih montažnih elemenata; - dionica: Ravče – Ploče ugrađeno ukupno 4.202,80 m³ prefabriciranih montažnih elemenata.



Motorway Zagreb-Split-Dubrovnik- section: Dugopolje – Bisko – Šestanovac (viaducts, overpasses, passes and drains), year 2006. – 2010. (8.466,40 m²), total of 2.286,16 m³ of prefabricated elements was built in;

- section: Šestanovac – Zagvozd – Ravče (underpasses) 1.489,24 m², and total of 595,70 m³ of prefabricated elements was built in;
- section: Ravče – Ploče, total of 4.202,80 m³ prefabricated elements was built in.

NISKOGRADNJA



AC ZAGREB-SPLIT-DUBROVNIK, dionica Ravče-Ploče, Hrvatska
MOTORWAY ZAGREB-SPLIT-DUBROVNIK, section Ravče-Ploče, Croatia

Investitor:	HRVATSKE AUTOCESTE d.o.o. Zagreb
Investor:	
Rok izgradnje:	18 mjeseci
Construction window:	18 months
Godina izgradnje:	2012.
Year:	



CIVIL ENGINEERING



AC Beli Manastir – Osijek – Svilaj – Ploče, dionica: Đakovo – Sredanci, izgradnja objekata na trasi, Hrvatska / Motorway Beli Manastir – Osijek – Svilaj – Ploče, section: Đakovo – Sredanci route, Croatia

Investitor:	HRVATSKE AUTOCESTE d.o.o. Zagreb
Investor:	
Rok izgradnje:	6 mjeseci
Construction window:	6 months
Godina izgradnje:	2006.
Year:	

Dionica Đakovo – Sredanci – na navedenoj dionici izvedeni su most preko zapadnog lateralnog kanala i most Bid. Izrađeno je 10.359 m³ klinova, nasipa i čunjeva, ugrađeno je 1.905 m³ betona, izrađeno je 594 m bušenih pilota d = 120 cm.

Section Đakovo – Sredanci – at the section bridge over the western lateral canal was built along with the Bid bridge. 10.359m³ of wedges, cones and dykes was built in as well as 594m drilled piles d = 120cm.



MOST na rijeci Muri, Hrvatska
Bridge on river Mura, Croatia

Investitor:	Đuro Đaković montaža d.d. Sl.Brod
Investor:	
Površina:	1.000 m ²
Area:	
Rok izgradnje:	12 mjeseci
Construction window:	12 months
Godina izgradnje:	2007.
Year:	



NISKOGRADNJA

VIJADUKT na rampama priključka Velika Gorica–vijadukt rampe OS S1, Hrvatska / VIADUCT at connector ramps Velika Gorica–viaduct ramp OS S1, Croatia

Investitor:	HRVATSKE AUTOCESTE d.o.o. Zagreb
Investor:	
Površina:	3.150 m ²
Area:	
Rok izgradnje:	18 mjeseci
Construction window:	18 months
Godina izgradnje:	2011.
Year:	



Izgradnja vijadukta i rampe priključak je autoceste Zagreb – Sisak, dionica Jakuševac – Velika Gorica na županijsku cestu Zagreb – Velika Gorica u smjeru Velike Gorice, lokacija Odra (Hrašće), Zagreb. Površina vijadukta je 3.146,42 m² – širine 8,05 metara i dužine 390,86 metara. Izvodi se kao monolitna armiranobetonska ploča debljine 120 centimetara, a na rubovima završava bočnim konzolama promjenjive debljine. Rampa je podijeljena u tri dilatacije. Stupovi i upornjaci temelje se plitko na temeljnim stopama, dimenzine cca 10 x 9 x 1,50 metara, a sami stupovi su visine od 6 do 14,60 metara. Na dijelu dilatacije 2 vijadukt prelazi preko autoceste kao i preko elektrificirane željezničke pruge.



Construction of viaduct and ramp is terminal to motorway Zagreb – Sisak, section Jakuševac – Velika Gorica on the county road Zagreb – Velika Gorica in the direction of Velika Gorica, location Odra (Hrašće), Zagreb. Viaduct surface area is 3.146,42 m² – width of 8.05 meters and a length of 390.86 meters. It is performed as a monolithic reinforced concrete board 120 cm thick, and on the edges it ends with the lateral consoles that are changable thickness. The ramp is divided into three dilatation. The pillars and anchor poles are based on a shallow foundation footings, measures approx 10.00x9.00x1.50 meters, while pillars (columns) themselves are from 6.00 to 14.60 meters high. On the part of dilation 2 viaduct is crossing over the motorway as well as over the electrified railway line.

CIVIL ENGINEERING



AC 13 Podravski ipilon, dionica Vrbovec-Bjelovar, poddionica Vrbovec 2-Farkaševac, Hrvatska / Motorway 13 Podravski ipilon, section Vrbovec-Bjelovar, subsection Vrbovec2- Farkaševac, Croatia

Investitor:	HRVATSKE AUTOCESTE d.o.o. Zagreb
Investor:	
Površina:	49.249 m2
Area:	
Rok izgradnje:	18 mjeseci
Construction window:	18 months
Godina izgradnje:	2012.
Year:	



Nadvožnjaci iznad trase autoceste izgrađeni su monolitnom ab konstrukcijom. Mostovi u trasi autoceste su višerasponski objekti i izgrađeni su polumontažnom ab konstrukcijom, a neki integralnom monolitnom konstrukcijom. Ukupno ima 33 objekata.



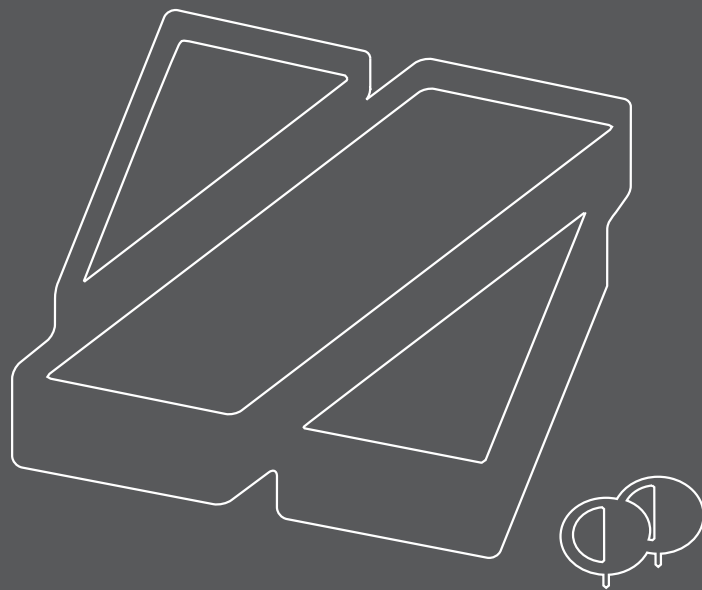
Overpasses over the highway route are made of monolithic ab construction. Bridges in the route of the highway are facilities in multiple ranges and are made of prefabricated ab structure, and some and are made of integral monolithic construction. In total there are 33 facilities.



Most na rijeci Mrežnici, Belavići, Hrvatska
Bridge on river Mrežnica, Belavići, Croatia

Investitor:	ŽUPANIJSKA UPRAVA ZA CESTE Karlovac
Investor:	
Površina:	1.763 m2
Area:	
Rok izgradnje:	12 mjeseci
Construction window:	12 months
Godina izgradnje:	2012.
Year:	





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