

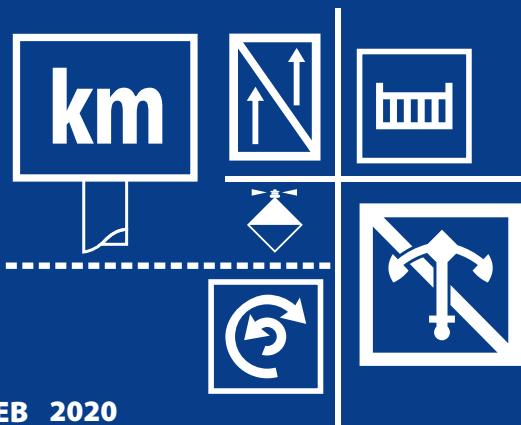


INTERNATIONAL SAVA RIVER BASIN COMMISSION

**MEĐUNARODNA KOMISIJA ZA SLIV RIJEKE SAVE
INTERNATIONAL SAVA RIVER BASIN COMMISSION**

**DALJINAR
RIJEKE SAVE I NJENIH PLOVNIH PRITOKA**

**INDICATOR
OF RIVER KILOMETRES FOR THE SAVA RIVER
AND ITS NAVIGABLE TRIBUTARIES**



ZAGREB 2020

INTERNATIONAL SAVA RIVER BASIN COMMISSION

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Zagreb 2020.

Foreword

In the period from the year 1990, navigation and transport on the Sava river were, for known reasons, primarily affected by a lack of investments into the waterway maintenance and the waterway infrastructure development, which, nowadays, resulted in a significant decrease of the cargo transport with respect to the year 1990.

A solid basis for gradual overcoming of the problem was set by ratification of the Framework Agreement on the Sava River Basin in December 2004, and by establishment of the International Sava River Basin Commission (Sava Commission) in June 2005.

According to the Framework Agreement, the strategic objective of the Sava Commission is coordination of cooperation among the Sava countries in the water sector, with aim to provide conditions for sustainable development of the basin. The Framework Agreement, which integrates all aspects of water resources management in the basin, stipulates the following three particular objectives of cooperation:

Establishment of the international navigation regime on the Sava river and its navigable tributaries;

Establishment of sustainable water management in the basin, and

Management of hazards, such as floods, droughts, ice and water pollution.

The establishment of the international navigation regime on the Sava river, by respecting, at the same time, the other two objectives, includes the realization of a series of activities related to the rehabilitation and development of waterway infrastructure, improvement of navigation safety and upgrade of the technical standards of navigation, thus providing the conditions for the navigation development in a modern and environmentally sustainable manner.

To this end, the Sava Commission has, so far, developed a set of documents related to navigation and passed decisions on their adoption. Herewith, these documents entered into force and became obligatory for the Sava countries, given the legal capacity of the Sava Commission in the field of navigation, stipulated by the Framework Agreement. In addition, a number of activities have been undertaken together with the Member States in order to improve the waterway infrastructure, including the reestablishment of the marking system, preparation of a share of the planning documentation for the restoration of the waterway, as well as the establishment of the River Information Services (RIS).

“Indicator of River Kilometres for the Sava River and its Navigable Tributaries” aims to provide the respective stakeholders in the Sava river basin

(relevant ministries, port authorities, port master offices, boatmasters, shippers, and other users of the waterway), as well as other organizations and institutions, with an up-to-date overview of all changes of the waterway, which have happened since the last edition of the “Indicator” published in 1960-ies, and hence significantly contribute to navigation safety in the Sava river basin.

For the first time, the “Indicator of River Kilometres” includes the data on riverbank structures being of importance for orientation, planning and the navigation itself. Additionally, a special attention is paid to the waterway sections considered as critical for navigation, which will, hopefully, significantly improve the navigation safety and prevent accidents with potential adverse impacts on the quality of water and water ecosystem of the Sava river.

This is the third, updated edition of the “Indicator”, which confirms that the waterway users in the first place have recognized this publication as useful and helpful in their daily practice.

Zagreb, February 2020

Dragan Zeljko
Secretary of the Sava Commission

Predgovor

Plovidba i transport rijekom Savom u razdoblju od 1990. godine bili su, iz poznatih razloga, prije svega obilježeni nedostatkom investiranja u održavanje plovнog puta i razvoj plovidbene infrastrukture, zbog čega je transport tereta danas značajno niži u odnosu na nivo iz 1990. godine.

Ratifikacijom Okvirnog sporazuma o slivu rijeke Save krajem 2004. godine i formiranjem Međunarodne komisije za sliv rijeke Save (Savske komisije) sredinom 2005. godine, stvorena je osnova za postupno rješavanje ovog problema.

Prema Okvirnom sporazumu, strateški cilj Savske komisije je koordinacija suradnje savskih država u oblasti voda, radi osiguravanja uvjeta za održivi razvoj slivnog područja. Okvirnim sporazumom, koji objedinjuje sve aspekte upravljanja vodama na slivu, definirana su tri konkretna cilja ove suradnje:

uspostavljanje međunarodnog režima plovidbe na Savi i njenim plovним pritokama;

uspostavljanje održivog upravljanja vodama na slivu Save i

upravljanje hazardima, kao što su poplave, suše, pojave leda i zagađenja voda.

Uspostavljanje međunarodnog režima plovidbe na Savi, uz istovremeno uvažavanje drugih navedenih ciljeva, podrazumijeva realizaciju niza aktivnosti vezanih za obnovu i razvoj plovidbene infrastrukture, povećanje sigurnosti i unaprijeđenje tehničkih standarda plovidbe, kojima se stvaraju uvjeti za razvoj plovidbe na suvremen, ekološki održiv način.

U tom cilju, Savska komisija je do danas izradila set dokumenata iz oblasti plovidbe i donijela odluke o njihovom usvajanju, čime su ovi dokumenti stupili na snagu i postali obvezujući za savske države, s obzirom na pravnu sposobnost u oblasti plovidbe, koja je Savskoj komisiji data Okvirnim sporazumom. Isto tako, zajedno sa državama članicama poduzet je niz aktivnosti na unapređenju infrastrukture vodnog puta kao što su uspostava sistema obilježavanja, izrada dijela planske dokumentacije za obnovu plovнog puta i uspostava Riječnih informacijskih servisa (RIS).

„Daljinarni rijeke Save i njenih plovnih pritoka“ ima za cilj da zainteresiranim subjektima u slivu Save (resorna ministarstva, lučke uprave, kapetanije, zapovjednici, brodari i drugi neposredni korisnici plovнog puta), ali i drugim organizacijama i institucijama, ponudi ažurirani prikaz svih promjena nastalih na plovnom putu od posljednjeg izdanja „Daljinara“, šezdesetih godina prošlog stoljeća, čime se očekuje značajan doprinos bezbjednosti plovidbe u

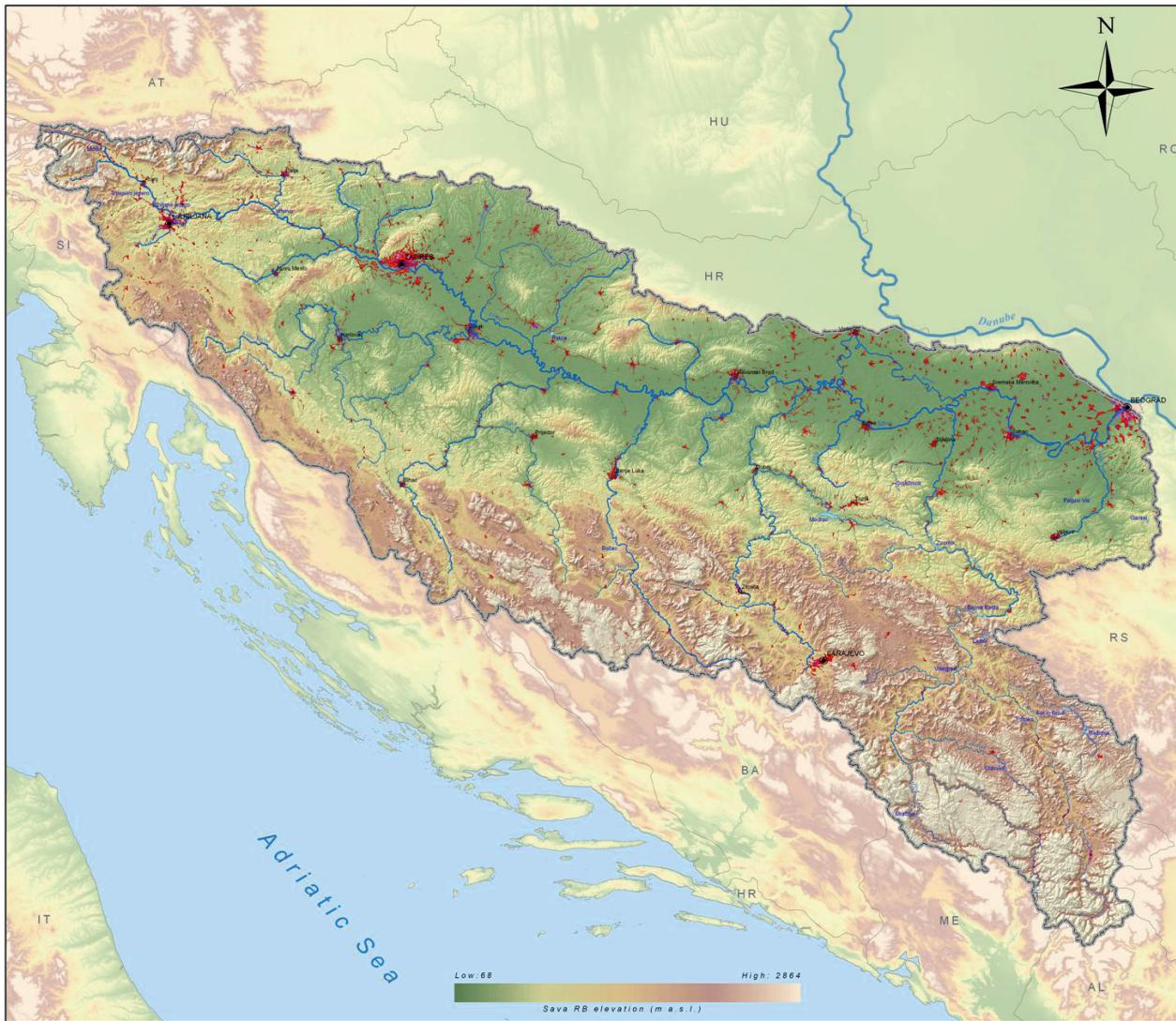
slivu Save.

U „Daljinaru“ se, po prvi put, prikazuju i objekti na rječnim obalama, značajni sa stajališta orijentacije, planiranja i same plovidbe. Pored toga, posebna pažnja se posvećuje dionicama plovнog puta zahtjevnim za plovidbu, što će, nadamo se, značajno povećati sigurnost plovidbe i spriječiti nezgode koje bi za posljedicu mogle imati i negativne utjecaje na kvalitet voda i vodnih ekosistema rijeke Save.

Ovo je treće nadopunjeno izdanje “Daljinara” što potvrđuje da su prvenstveno korisnici plovнog puta prepoznali ovu publikaciju kao upotrebljivu i korisnu u njihovoј svakodnevnoј praksi.

Zagreb, februar 2020.

Dragan Zeljko,
sekretar Savske komisije



The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the ISRBC

Data sources:
DEM data: The NASA Shuttle Radar Topographic Mission (SRTM) processed by the CIAT-CSI (<http://srtm.csi.cgiar.org>), USGS

CORINE land cover: EEA (<http://www.eea.europa.eu>)
Other data: ICPDR, ESRI, The Parties to the FASRB (SI, HR, BA, RS)

0 20 40 80 120 160 Km

1:2,000,000

Coordinate system: ETRS 1989
Projection: Lambert Azimuthal Equal Area

Sava River Basin overview map



Legend

- Sava RB boundary**
- State borders**
- Urban areas**
 - Continuous urban areas
 - Discontinuous urban areas
 - Industrial or commercial units
 - Green urban areas
 - Sport and leisure facilities
 - Capitals of the FASRB Parties
 - Urban centers
- Sava RB rivers** (Catchments >=1000 sq.km)*
 - Sava River
 - 1st order tributary
 - 2nd order tributary
 - 3rd order tributary
- Reservoirs** (V>=5 mil m³)
 - except Sutla/Sotla, Lašva and Tinja



INTERNATIONAL SAVA RIVER BASIN COMMISSION

Processed and compiled by the Secretariat of the ISRBC
September 2009

INTRODUCTION

The Indicator of river kilometres for the Sava River has been developed based on the Work Plan of the Sava Commission Secretariat, and the need to update all changes that have occurred on the fairway since the last edition published in 1960's.

This edition of the Indicator of river kilometres covers the Sava River from rkm 727,1 to its mouth where it discharges into the Danube at rkm 0, and the Kupa River, which is so far the only tributary kept maintained and marked, from the Sava River mouth to rkm 162,6. Depending on commencement of the planned regulation and marking of the tributaries for navigation, the indicator of river kilometres will be upgraded and pursue the arisen changes.

This edition contains all elements necessary for safe navigation and is result of the perennial work and periodical reviews by the competent bodies dealing with waterway issues and hydrological conditions pertaining to the fairway. Unlike the so-far indicators of river kilometres, this one has been prepared in parallel with the newly installed mileage, as well as with application of the new mode of determination of the kilometre marks' positions at certain section. This resulted in resolution of a problem of double kilometre marks, which, pragmatically, an obstacle to realization of the plan on rehabilitation of the international waterway of the Sava River and its navigable tributaries.

The sketches of bridges in this edition feature uniformity and validity of data in terms of width of the navigable aperture, height of the navigable aperture for the high navigable level – maximal water level, as well as the height of the navigable aperture for the ASL “0” at reference gauge station. Each subsequent edition will, following the period of practical use and provided feedback, surely be even more complete and substantial.

The riverbank structures, which are important for orientation and can be of assistance when planning and for navigation as well, have been incorporated into the Indicator of river kilometres for the first time. With regard to navigation, special attention in the Indicator of river kilometres has been paid to the more demanding sections, which will surely raise the level of navigation safety and prevent larger damages on the waterway that could result in detrimental impacts to aquatic ecosystem as well to water quality of the Sava River.

States borders depicted in the Indicator are of orientational character only and can not in any way prejudice determination of official states borders.

Finally, along with the afore-stated, we should underline that the Indicator of river kilometres consists of the following chapters:

- I INTRODUCTION
- II INTERPRETATION OF SYMBOLS
- III WATERWAY SIGNS AND MARKS
- IV SAVA RIVER
- V KUPA RIVER
- VI DISTANCES BETWEEN LARGER CITIES

Indicator is issued with the status of the Marking System on the January 1, 2020. The subsequent editions will be amended and updated in accordance with changes on the fairway, and complete up-to-date versions will always be available in electronic form at the website of the Sava Commission www.savacommission.org.

I

UVOD

Daljinar rijeke Save izrađen je na temelju plana rada Sekretarijata Savske komisije, kao i potrebe da se ažuriraju sve promjene nastale na plovnom putu od vremena posljednjeg izdanja šezdesetih godina prošlog stoljeća.

Daljinar u ovom izdanju tretira rijeku Savu od rkm 727,1 pa sve do ušća u Dunav na rkm 0 i, rijeku Kupu, za sada jedinu održavanu i označenu pritoku, od ušća u Savu pa do rkm 162,6. Ovisno o početku planskog uređenja i obilježavanja plovnih pritoka za plovidbu, i daljinar će biti dopunjavan te će slijediti sve novonastale promjene.

Ovo izdanje sadrži sve potrebne elemente za sigurnu plovidbu i rezultat je višegodišnjeg rada i povremenih provjera od strane kompetentnih poznavalaca plovnog puta i hidroloških prilika koje na njemu vladaju. Za razliku od dosadašnjih daljinara, ovaj daljinar je pripreman paralelno sa novopostavljenom stacionažom kilometarskih oznaka a u jednom dijelu je primjenjen i nov način određivanja pozicija kilometarskih oznaka. Rezultat toga je riješen problem duplih kilometara koji je, i objektivno, predstavljao problem pri realizaciji plana rehabilitacije međunarodnog plovnog puta rijeke Save i njenih plovnih pritoka.

Skice mostova u ovom izdanju karakteriziraju uniformnost i validnost podataka u smislu širine plovnog otvora, visine plovnog otvora za visoki plovni nivo-maksimalni vodostaj, kao i visine plovnog otvora za vodostaj „0“ na referentnom vodomjeru. Svako naredno izdanje će, nakon razdoblja praktične primjene i dobijenih povratnih informacija, zasigurno biti kompletnije i sadržajnije.

Po prvi put se u daljinaru uvode i obalni objekti, važni za orijentaciju, koji mogu biti od pomoći kod planiranja i provođenja plovidbe. U pogledu navigacije, u daljinaru je posebna pažnja posvećena zahtjevnim dionicama što će, sigurni smo, umnogome podići nivo sigurnosti plovidbe i spriječiti veće havarije na plovnom putu koje bi za posljedicu mogle imati štetne utjecaje kako na akvatične ekosisteme tako i kvalitet voda rijeke Save.

Oznake granica između država u Daljinaru isključivo su orijentacijskog karaktera i ni na koji način ne prejudiciraju utvrđivanje službenih granica između država.

Na kraju, pored svega naprijed navedenog, važno je istaći da se daljinar sastoji od pet pogлавlja i to:

- I UVOD
- II TUMAČENJE SIMBOLA
- III PLOVIDBENI ZNAKOVI I OZNAKE
- IV RIJEKA SAVA
- V RIJEKA KUPA
- VI RAZDALJINE IZMEĐU VEĆIH GRADOVA

Daljinar se izdaje sa stanjem obilježenosti na dan 1. januara 2020. godine. Naredna izdanja će biti dopunjavana i ažurirana u skladu sa promjenama na plovnom putu, a potpuno ažurno izdanje u elektronskoj formi uvijek će biti dostupno na službenoj web stranici Savske komisije www.savacommission.org

II

INTERPRETATION OF SYMBOLS

TUMAČENJE SIMBOLA



Post; Telephone
Pošta; Telefon



Medical corps
Sanitetska služba



Border crossing
Granični prijelaz



Customs
Carina



Port Master
Kapetanija



Water construction admistration
Uprava za vodogradnju



Port authority
Lučka uprava



Navigation safety inspection
Inspekcija sigurnosti plovidbe



Winterport
Zimovnik



Winter Shelter
Zimsko sklonište



Shipyard
Brodogradilište



Bunkering station
Mjesto za snabdjevanje plovila gorivom



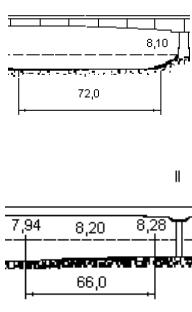
Railway station
Željeznička stanica

	Port linked to the railway network Luka vezana na željezničku mrežu
	Reloading site Pretovorno mjesto
	Passenger terminal Putnički pristan
	Pilot station Pilotska stanica
	Encountering spot Mjesto za susretanje
	Afor signal of locks
	Predsignal prevodnice
	Call signal for locks
	Pozivni signal za prevodnice
	Inbound signal for locks
	Ulažni signal za prevodnice
↑	Sign for bridge passage-upstream Signal spot-upstream Znak za prolaz ispod mosta-uzvodno Signalno mjesto-uzvodno
↓	Sign for bridge passage-downstream Signal spot-downstream Znak za prolaz ispod mosta-nizvodno Signalno mjesto-nizvodno
↔	Sign for bridge passage-upstream and downstream Signal spot-upstream and downstream Znak za prolaz ispod mosta-uzvodno i nizvodno Signalno mjesto-uzvodno i nizvodno
☰↓	Height indicator for bridge passage
☰↑	Pokazivač visine za prolaz ispod mosta

	Signal station Signalna stanica
	Underwater duct Podvodni vod
	Power-transmission line with height indicator above the highest navigability level in m Dalekovod s pokazivačem (mjerilom) visine iznad najvišeg plovidbenog nivoa u m
	a) High-voltage duct a) Visokonaponski vod
	b) Telephone duct Telefonski vod
	Ferryboat not moving independently-cord hanging or at the bottom Skela koja ne plovi slobodno-sajla viseća ili na dnu (visina sajle u m)
	Ferryboat moving independently Slobodna skela
	+50;+158;+630; Water gauge; absolute zero mark of the water gauge above the sea (altitude) in meters; low regulation navigability level. Mark “-“ indicates absence of navigability level data
	+50;+158;+630; Vodomjer; apsolutna nulta tačka vodomjera nad morem (nadmorska visina) u metrima; regulacioni niski plovidbeni nivo; visoki plovidbeni nivo. Oznaka “-“ ukazuje na nepostojanje podataka o plovidbenim nivoima
	Indicator of the water level on the water gauge and shoal depth Pokazivač nivoa vode na vodomjeru i dubine plićaka
	Shoal Plićak

	Island' middle Sredina ade
	Upper and lower end of effluent (lateral effluent) closed by bulkhead; island linked with bank by bulkhead Gornji i donji kraj rukavca (bočnog rukavca), koji je zatvoren pregradom; ada, koja je pregradom povezana s obalom
	At low water level, the drained upper or lower part of the effluent (lateral effluent); at low water level, the island linked with bank by sandbar Kod niske vode isušeni gornji ili donji dio rukavca (bočnog rukavca), kod niske vode ada spojena preko spruda sa obalom
	Danger signal (yellow board) Znak opasnosti (žuta tabla)
	Sunken object Potopljeni objekat
	Pumping station Crpna stanica
	Water Supply Facility Cjevasti bunar
	Water Supply Facility Reni bunar
	Mouth Ušće
	Settlements with < 10 000 inhabitants Naselja do 10 000 stanovnika
	Settlements with 10 000–100 000 inhabitants Naselja od 10 000-100 000 stanovnika
	Settlements with > 100 000 inhabitants Naselja preko 100 000 stanovnika

Davor (1,5)



Distance from the bank to the settlement in km
Udaljenost od obale do nekog mjesta u km

Height of the lighted aperture of navigation passage-vertical distance of the high navigability level or peak water level - water level of 100 year recurrence period and lower brink of the bridge construction (h_{nvpn} or h_{100}). The waterway width in navigable aperture (b_{pl}).

Visina svjetlog otvora plovidbenog prolaza – vertikalna udaljenost visokog plovidbenog nivoa ili maksimalnog vodostaja – stogodišnje vode i donje ivice konstrukcije mosta (h_{nvpn} ili h_{100}). Širina plovnog puta u plovnom otvoru (b_{pl}).

III

WATERWAY SIGNS AND MARKS

PLOVIDBENI ZNAKOVI I OZNAKE

A PROHIBITORY SIGNS ZNAKOVI ZABRANE

- | | | |
|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------|
|  | A.1a | No entry (general sign)
Zabrana prolaza (opći znak) |
|  | A.2 | No overtaking
Zabrana preticanja |
|  | A.3 | No overtaking of convoys by convoys
Zabrana međusobnog preticanja sastava |
|  | A.4 | No passing or overtaking
Zabrana mimoilaženja i preticanja |
|  | A.4.1 | No passing or overtaking of convoys by convoys
Zabrana međusobnogmimoilaženja i preticanja sastava |
|  | A.5 | No berthing (i.e. no anchoring or making fast to the bank)
Zabrana stajanja (npr. sidrenja ili vezivanja uz obalu) |
|  | A.5.1 | No berthing within the breadth indicated in metres (measured from the sign)
Zabrana stajanja na širini označenoj u metrima |
|  | A.6 | No anchoring or trailing of anchors, cables or chains
Zabrana sidrenja ili vučenja sidara, užadi i lanaca |
|  | A.7 | No making fast to the bank
Zabrana vezivanja uz obalu |
|  | A.8 | No turning
Zabrana okretanja |
|  | A.9a | Do not create wash
Zabrana stvaranja valova |

-  A.10 No passing outside the area marked (in openings of bridges or weirs)
Zabrana prolaza van označenog prostora (u otvorima mostova ili brana)
-  A.12 Motorized craft prohibited
Zabrana plovidbe za motorna plovila
-  A.13 Sports or pleasure craft prohibited
Zabrana za sva sportska plovila i plovila za razonodu
-  A.14 Water skiing prohibited
Zabrana skijanja na vodi
-  A.15 Sailing vessels prohibited
Zabrana plovidbe za plovila na jedra
-  A.16 All craft other than motorized vessels or sailing craft prohibited
Zabrana plovidbe za sva plovila osim motornih plovila i plovila na jedra
-  A.17 Use of sailboards prohibited
Zabrana jedrenja na dasci
-  A.18 End of zone authorized for high speed navigation of small sport and pleasure craft
Završetak zone dozvoljene za glisiranje čamaca za sport i razonodu
-  A.19 No launching or beaching of vessels
Zabrana spuštanja ili izvlačenja plovila
-  A.20 Water bikes prohibited
Zabranjena vožnja skuterima
- B MANDATORY SIGNS
ZNAKOVI OBAVEZE
-  B.1 Proceed in the direction shown by the arrow
Obaveza plovidbe pravcem koji označava strelica
-  B.2.a Move to the side of the fairway on your port side
Obaveza skretanja prema lijevoj strani plovnog puta

	B.2.b	Move to the side of the fairway on your starboard side Obaveza skretanja prema desnoj strani plovnog puta
	B.3.a	Keep to the side of the fairway on your port side Obaveza plovidbe lijevom stronom plovnog puta
	B.3.b	Keep to the side of the fairway on your starboard side Obaveza plovidbe desnom stronom plovnog puta
	B.4.a	Cross fairway to port Obaveza prelaska preko plovnog puta na vašu lijevu stranu
	B.4.b	Cross fairway to starboard Obaveza prelaska preko plovnog puta na vašu desnu stranu
	B.5	Stop as prescribed in the Regulations Obaveza zaustavljanja kako je propisano pravilima
	B.6	Do not exceed the speed indicated in km/h) Obaveza poštovanja ograničenja brzine naznačene na znaku (u km/h)
	B.7	Give a sound signal Obaveza davanja zvučnog signala
	B.8	Keep a particularly sharp lookout Obaveza obraćanja posebne pažnje
	B.9.a	Do not enter or cross the main waterway until certain that this will not oblige vessels proceeding on it to change their course or speed Ne ulaziti na glavni plovni put niti ga prelaziti ukoliko plovila na njemu zbog toga moraju mijenjati svoj kurs i brzinu
	B.9.b	Obligation to enter into a radiotelephone link Obaveza uspostave radiotelefonske veze
	B.11.a	Obligation to enter into a radiotelephone link on the channel as indicated on the board Obaveza uspostave radiotelefonske veze na naznačenom kanalu

C RESTRICTIVE SIGNS
ZNAKOVI OGRANIČENJA



- C.1a Depth of water limited
Ograničena dubina vode



- C.1b Headroom limited
Ograničena visina prolaza



- C.2a Headroom limited
Ograničena visina prolaza



- C.2b Headroom limited
Ograničena visina prolaza



- C.3a Width of passage or fairway limited
Ograničena širina plovnog puta ili prolaza



- C.3b Width of passage or fairway limited
Ograničena širina plovnog puta ili prolaza



- C.4 There are restrictions on navigation: see the information plate below the sign
Postoje ograničenja u plovidbi; vidi dodatnu informativnu tablu ispod znaka



- C.5 The channel lies at a distance from the right (left) bank; the figure shown on the sign indicates the distance in metres, measured from the sign, to which vessels should keep
Plovni put leži na određenoj udaljenosti od lijeve ili desne obale; broj na znaku označava udaljenost u metrima, mjerenu od znaka, na kojoj se plovila trebaju držati

D RECOMMENDATORY SIGNS
ZNAKOVI PREPORUKE

- D.1 Recommended opening
Preporučeni otvor



- D.1.a in both directions
za plovidbu u oba smjera

	D.1.c or/ili D.1.d	only in the direction indicated (passage in the opposite direction prohibited) samo za plovidbu u naznačenom smjeru (plovidba u suprotnom smjeru zabranjena)
	D.2a	You are recommended to keep within the area indicated (in openings of bridges or weirs) Preporučuje se ploviti unutar označenog prostora (u otvorima mostova ili brana)
	D.3a	You are recommended to proceed in the direction shown by the arrow Preporučuje se ploviti u smjeru koji označava strelicu
E		INFORMATIVE SIGNS ZNAKOVI OBAVJEŠTENjA
	E.1a	Entry permitted (general sign) Dozvoljen prolaz (opći znak)
	E.2	Overhead cable crossing Nadvodni kabel
	E.3	Weir Brana
	E.4.a	Ferry-boat not moving independently Skela koja ne plovi slobodno
	E.4.b	Ferry-boat moving independently Skela koja slobodno plovi
	E.5	Berthing (i.e. anchoring or making fast to the bank) permitted Dozvoljeno stajanje (npr. sidrenje ili vezivanje uz obalu)
	E.5.1	Berthing permitted on the stretch of water of the breadth measured from, and shown on the board in metres Dozvoljeno stajanje na širini naznačenoj na tabli i mjerenoj od znaka u metrima

30-60

E.5.2

Berthing permitted on the stretch of water bounded by the two distances measured from, and shown on the board in metres

Dozvoljeno stajanje na dijelu vode između: dvije udaljenosti s table i mjereno od znaka

IV

E.5.3

Maximum number of vessels permitted to berth abreast

Maksimalan broj plovila koja mogu stajati vezana uz bok

▲

E.5.4

Berthing area reserved for pushing-navigation vessels that are not required to carry the marking prescribed in article 3.14 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila potiskivane tehnologije koja ne moraju da pokazuju oznake propisane u članu 3.14 Pravila plovidbe na slivu rijeke Save

▲

E.5.5

Berthing area reserved for pushing-navigation vessels that are required to carry one blue light or one blue cone prescribed in article 3.14, para 1 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila potiskivane tehnologije koja moraju da pokazuju jedno plavo svjetlo ili jedan plavi konus propisane u članu 3.14, stav 1 Pravila plovidbe na slivu rijeke Save

▲

E.5.6

Berthing area reserved for pushing-navigation vessels that are required to carry two blue lights or two blue cones prescribed in article 3.14, para 2 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila potiskivane tehnologije koja moraju da pokazuju dva plava svjetla ili dva plava konusa propisane u članu 3.14, stav 2 Pravila plovidbe na slivu rijeke Save

▲

E.5.7

Berthing area reserved for pushing-navigation vessels that are required to carry three blue lights or three blue cones prescribed in article 3.14, para 3 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila potiskivane tehnologije koja moraju da pokazuju tri plava svjetla ili tri plava konusa propisane u članu 3.14, stav 3 Pravila plovidbe na slivu rijeke Save



E.5.8

Berthing area reserved for vessels other than pushing-navigation vessels that are not required to carry the marking prescribed in article 3.14 from Navigation Rules on the Sava River Basin
Mjesto za stajanje plovila koja nisu potiskivane tehnologije i ne moraju da pokazuju oznake propisane u članu 3.14 Pravila plovidbe na slivu rijeke Save



E.5.9

Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry one blue light or one blue cone prescribed in article 3.14, para 1 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila koja nisu potiskivane tehnologije i moraju da pokazuju jedno plavo svjetlo ili jedan plavi konus propisane u članu 3.14, stav 1 Pravila plovidbe na slivu rijeke Save



E.5.10

Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry two blue lights or two blue cones prescribed in article 3.14, para 2 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila koja nisu potiskivane tehnologije i moraju da pokazuju dva plava svjetla ili dva plava konusa propisane u članu 3.14, stav 2 Pravila plovidbe na slivu rijeke Save



E.5.11

Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry three blue lights or three blue cones prescribed in article 3.14, para 3 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila koja nisu potiskivane tehnologije i moraju da pokazuju tri plava svjetla ili tri plava konusa propisane u članu 3.14, stav 3 Pravila plovidbe na slivu rijeke Save



E.5.12

Berthing area reserved for all vessels that are not required to carry the marking prescribed in article 3.14 from Navigation Rules on the Sava River Basin

Mjesto za stajanje za sva plovila koja ne moraju da pokazuju oznake propisane u članu 3.14 Pravila plovidbe na slivu rijeke Save



E.5.13

Berthing area reserved for all vessels that are required to carry one blue light or one blue cone prescribed in article 3.14, para 1 from Navigation Rules on the Sava River Basin

Mjesto za stajanje za sva plovila koja moraju da pokazuju jedno plavo svjetlo ili jedan plavi konus propisane u članu 3.14, stav 1 Pravila plovidbe na slivu rijeke Save



E.5.14

Berthing area reserved for all vessels that are required to carry two blue lights or two blue cones prescribed in article 3.14, para 2 from Navigation Rules on the Sava River Basin

Mjesto za stajanje za sva plovila koja moraju da pokazuju dva plava svjetla ili dva plava konusa propisane u članu 3.14, stav 2 Pravila plovidbe na slivu rijeke Save



E.5.15

Berthing area reserved for all vessels that are required to carry three blue lights or three blue cones prescribed in article 3.14, para 3 from Navigation Rules on the Sava River Basin

Mjesto za stajanje za sva plovila koja moraju da pokazuju tri plava svjetla ili tri plava konusa propisane u članu 3.14, stav 3 Pravila plovidbe na slivu rijeke Save



E.6

Anchoring or trailing of anchors, cables or chains permitted

Dozvoljeno sidrenje ili vučenje sidara, užadi ili lanaca



E.7

Marking fast to the bank permitted

Dozvoljeno vezivanje za obalu



E.7.1

Berthing area reserved for loading and unloading vehicles. (Maximum duration of berthing permitted may be added on an information plate below the board)

Mjesto za stajanje rezervirano za utovar ili istovar vozila (najduže dozvoljeno vrijeme stajanja može biti označeno na dodatnoj tabli ispod znaka

	E.8	Turning area Mjesto za okretanje
	E.9.a	The waterway being approached are considered to be tributaries of this waterway
	E.9.b	Plovni putevi na koje se nailazi smatraju se pritokama
	E.10.a	This waterway is considered to a tributary of the waterway being approached
	E.10.b	Plovni put na koji se nailazi smatra se glavnim
 or/ili	E.11a	End of a prohibition or obligation applying to traffic in one direction only, or end of a restriction
	E.11b	Prestanak zabrane ili obaveze koja se primjenjuje na promet u jednom smjeru ili prestanak ograničenja
	E.13	Drinking-water supply Mjesto za snabdjevanje pitkom vodom
	E.14	Telephone Telefon
	E.15	Motorized vessels permitted Dozvoljena plovidba za motorna plovila
	E.16	Sports or pleasure craft permitted Dozvoljena plovidba plovilima za sport i razonodu
	E.17	Water skiing permitted Dozvoljeno skijanje na vodi
	E.18	Sailing vessels permitted Dozvoljena plovidba za plovila na jedra
	E.19	Craft other than motorized vessels or sailing craft permitted Dozvoljena plovidba za plovila koja nisu jedrilice ili motorna plovila
	E.20	Use of sailboards permitted Dozvoljena plovidba na daskama za jedrenje

	E.21	Zone authorized for high speed navigation of small sport and pleasure craft Zona dozvoljena za glisiranje čamaca za sport i razonodu
	E.22	Launching or beaching of vessels permitted Dozvoljeno spuštanje ili izvlačenje plovila iz vode
	E.23	Possibility of obtaining nautical information by radio-telephone on the channel indicated Mogućnost dobijanja nautičkih informacija putem radio telefona na naznačenom kanalu
	E.24	Water bikes permitted Dozvoljeno za skutere
	E.25	Electrical power supply point Mjesto za snabdijevanje električnom energijom
	E.26	Winter harbour Zimovnik
	E.26.1	Maximum number of vessels allowed to berth in the winter harbour Najveći broj plovila za koje je dopušteno stajanje u zimovniku
	E.27	Winter shelter Zimsko sklonište
	E.27.1	Maximum number of vessels allowed to berth in the winter shelter <ul style="list-style-type: none"> - Maximum number of vessels permitted to berth abreast - Maximum number of rows of vessels permitted to berth abreast Najveći broj plovila za koje je dopušteno stajanje u zimskom skloništu <ul style="list-style-type: none"> - Najveći broj plovila vezanih bočno - Najveći broj redova plovila vezanih bočno

**MARKS ON LAND INDICATING THE POSITION
OF THE FAIRWAY**
**OZNAKE NA OBALI KOJE OZNAČAVAJU
POLOŽAJ PLOVNOG PUTA**



- 4.A Fairway near the right bank - with light
Plovni put pored desne obale - sa svjetlom



- 5.A Fairway near the left bank - with light
Plovni put pored lijeve obale - sa svjetlom



- 4.D Cross-over - right bank without light
Prelaz plovnog puta - desna obala - bez svjetla



- 5.D Cross-over - left bank without light
Prelaz plovnog puta - lijeva obala - bez svjetla

**MARKS INDICATING DANGER POINTS AND
OBSTACLES**
**OZNAKE ZA OBILJEŽAVANJE OPASNIH
MJESTA I PREPREKA**



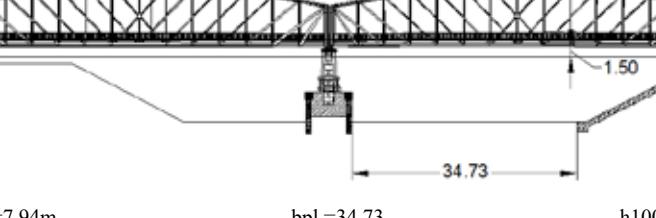
- 4.F Right-hand side
Desna strana

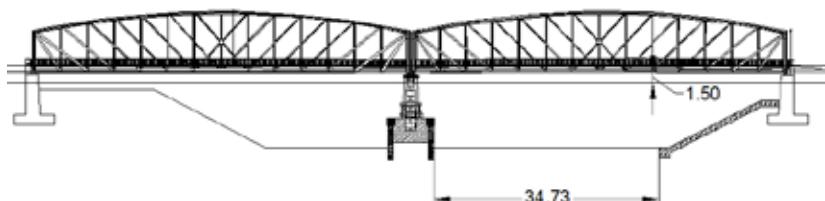


- 5.F Left-hand side
Lijeva strana

IV
SAVA RIVER
RIJEKA SAVA

Right Bank Desna obala	km	Left Bank Lijeva obala
Pregrada	727,1	Pregrada Nuklearna elektrana Krško Nuclear Power Plant
	727,1	Selo Spodnja Libna Spodnja Libna Village
	727,0	Selo Libna Libna Village
	726,6	Selo Spodnji Stari Grad Spodnji Stari Grad Village
	726,0	
Selo Vihre Vihre Village	725,4	
	725,0	
	724,0	
	723,9	Selo Pesje Pesje Village
	723,7	Selo Zgornji Obrež Zgornji Obrež Village
	723,5	Selo Gorenji Lenart Gorenji Lenart Village
	723,0	
Selo Gorenje Skopice Gorenje Skopice Village	722,4	
Selo Dolenje Skopice Dolenje Skopice Village	722,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Selo Krška Vas Krška Vas Village	721,0	
Selo Velike Malenice Velike Malenice Village	720,4	
	720,2	
	720,0	
	719,9	Naselje Brežice Settlement Brežice
Brana HE Brežice Hidro Power Plant	719,7	Brana HE Brežice Hidro Power Plant
	719,5	Ušće potoka Močnik Mouth Močnik Mouth
		
Brežice road steel bridge	719,4	Cestovni čelični most "Brežice"
Visokonaponski vod High-voltage duct	719,3	Visokonaponski vod High-voltage duct
	719,0	
Ušće Krke Krka Mouth	718,5	
Selo Čatež ob Savi Čatež ob Savi Village	718,4	



$$h_0 = 7,94 \text{ m}$$

Brežice road steel bridge

Visokonaponski vod High-voltage duct

bpl = 34,73

h100 = 1,5

Cestovni čeliči most "Brežice"

Visokonaponski vod High-voltage duct

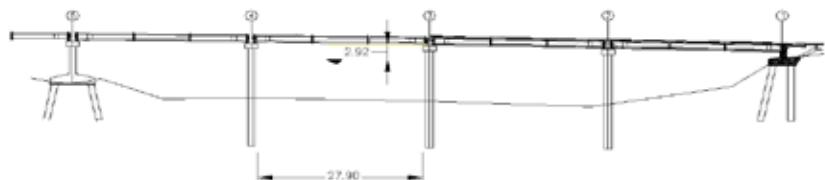
Ušće Krke Krka Mouth

Selo Čatež ob Savi
Čatež ob Savi Village

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



$h_0 = 6,82\text{m}$

Čatež road concrete bridge

bpl=34,73

$h_{100} = 1,5$

Cestovni betonski most "Čatež"

Selo Cerina
Cerina Village



718,2

Selo Dvorce
Dvorce Village



718,0



Vodomjer
Čatež I Gauge



717,9

Visokonaponski vod
High-voltage duct



717,3



Visokonaponski
vod
High-voltage duct

Brzaci - Pličak
Overfalls - Shoal



717,2



Brzaci - Pličak
Overfalls - Shoal



717,0



Selo Bukošek
Bukošek Village

Skelski prelaz Ferry
Resort i kamp
Terme Čatež
SPA and Camp
Terme Čatež



716,9



Selo Mostec
Mostec Village
Skelski prelaz
Ferry



716,0



715,8



Selo Gabrje pri Dobovi
Gabrje pri Dobovi Village



715,3



Selo Dobova
Dobova Village

Right Bank Desna obala	km km	Left Bank Ljeva obala
	715,0	
Selo Prilipe Prilipe Village	 714,5	
	 714,0	
	713,9	
Ušće Orehovca Orehovac Mouth	 713,5	Ušće Gabrnice Gabrnica Mouth
Selo Podgračeno Podgračeno Village	 713,2	
	 713,0	
	712,9	
Visokonaponski vod High-voltage duct	 712,8	Ušće Gabrnice Gabrnica Mouth
		Visokonaponski vod High-voltage duct
	712,7	
Selo Gaj Gaj Village	 712,5	Selo Loče Loče Village
Ušće Grajskog potoka Grajski potok Mouth	 712,4	
Selo Velika Dolina Velika Dolina Village	 712,3	
Selo Ribnica Ribnica Village	  712,0	
	711,8	
		Ušće Struga potoka Strug Mouth

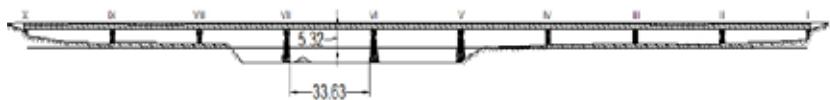
Right Bank Desna obala	km km	Left Bank Lijeva obala
	711,0	
	710,5	 Ušće Sutle Sutla Mouth
Selo Rajec Rajec Village Ušće Dolinskog potoka Dolinski potok Mouth	  710,2	
Selo Nova Vas pri Mokricah Nova Vas pri Mokricah Village	 710,1	
	710,0	
Selo Jesenice na Dolenjskem Jesenice na Dolenjskem Village Vodomjer Gauge	  709,7	
Selo Obrežje Obrežje Village	 709,0	
	708,0	
Ušće Bregane Bregana Mouth	 707,6	
	707,0	
Selo Samoborski Otok Samoborski Otok Village Skelska rampa Ferry slip	 706,6	
	706,0	
	705,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	km	704,0
Ušće potoka Creek Mouth	T	703,2
	km	703,0
Selo Medsave Medsave Village Skela Medsave Ferry		702,2
	km	702,0
	km	701,0
	km	700,0
	km	699,0
$h_0 = 7.94m$ “Zaprešić” Road Bridge	$bpl = 79.62m$	$h_{100} = 5.23m$ Cestovni most “Zaprešić”
	698,6	
	698,2	T Ušće Krapine Krapina Mouth
	km	
	698,0	
	km	697,0

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



$$h_0=7,57\text{m}$$

"Podsused" Road Bridge

$$\text{bpl}=33,63\text{m}$$

$$h_{100}=5,32\text{m}$$

696,6

Cestovni most "Podsused"

696,0

km

695,0

km

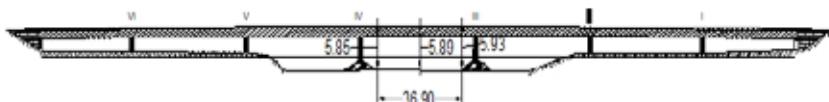
694,6

km

694,0

km

Jezero Rakitje
Rakitje lake



$$h_0=8,36\text{m}$$

"Jankomir" Road Bridge

$$\text{bpl}=36,9\text{m}$$

$$h_{100}=5,85\text{m}$$

693,6

Cestovni most "Jankomir"

693,0

km

692,0

km

691,0

Preliv Jankomir
(rkm 691,0- 692,0)
Spil Weir

690,0

km

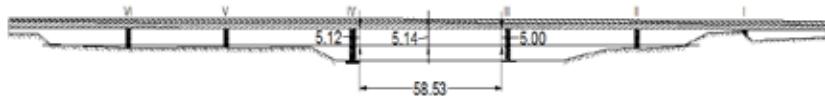
689,0

km

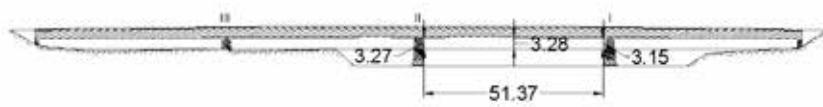
688,0

km

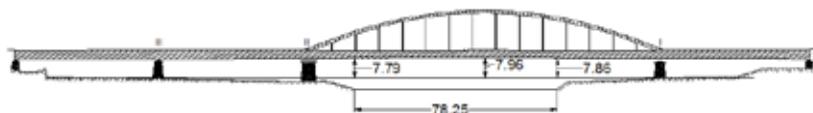
Right Bank Desna obala	km km	Left Bank Ljeva obala
	687,0	
	686,2	Sportsko-rekreacioni centar "Jarun" Jarun Sports and Recreation Center
	686,0	
	685,2	Ušće kanala Channae Mouth
	685,0	



$h_0 = 9,02\text{m}$ $bpl = 55,83\text{m}$ $h_{100} = 5,00\text{m}$
"Jadranski" Road Bridge **684,8** **Cestovni "Jadranski most"**



$h_0 = 7,18\text{m}$ $bpl = 51,37\text{m}$ $h_{100} = 3,15\text{m}$
"Savski" Pedestrian Bridge **684,6** **Pješački "Savski most"**



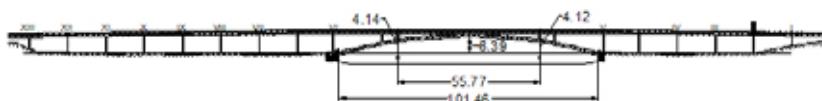
$h_0 = 11,86\text{m}$ $bpl = 78,25\text{m}$ $h_{100} = 7,79\text{m}$
"Sava-Zeleni" Railway Bridge **684,4** **Željeznički most "Sava-Zeleni"**

684,0	
683,0	

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



$$h_0 = 7,78 \text{m}$$

"Sloboda" Road Bridge

Grad Zagreb

$$\text{bpl} = 55,77 \text{m}$$

682,8

$$h_{100} = 4,12 \text{m}$$

Cestovni "Most Sloboda"

Zagreb City

Rekreacioni Centar "Bundek"
Bundek Recreation Center



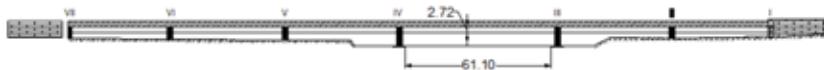
682,8



682,0



681,0



$$h_0 = 8,37 \text{m}$$

"Most Mladosti" Road Bridge

$$\text{bpl} = 61,10 \text{m}$$

$$h_{100} = 5,93 \text{m}$$

Cestovni "Most Mladosti"



680,7

Prag "Toplana"
"Heating plant"
Weir



680,0



679,5



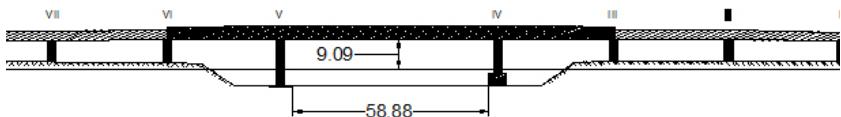
679,0



678,0



677,0



$$h_0 = 9,41 \text{m}$$

"Mičevac" Railway Bridge

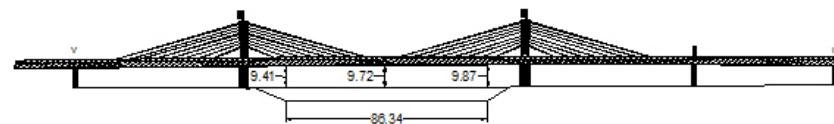
$$\text{bpl} = 58,88 \text{m}$$

676,3

$$h_{100} = 9,09 \text{m}$$

Željeznički most "Mičevac"

Right Bank Desna obala	km km	Left Bank Ljeva obala
	676,0	km
	675,0	km
	674,0	km

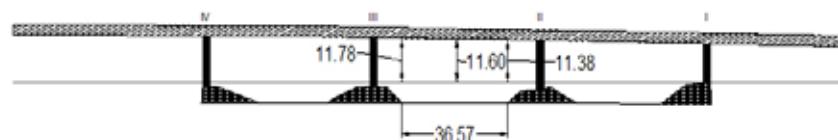


$h_0 = 10,25m$
"Domovinski" Road Bridge

bpl=86,34m
673,7

$h_{100} = 9,41m$
Cestovni most "Domovinski most"

673,0	km
672,0	km
671,0	km
670,0	km
669,0	km



$h_0 = 13,11m$
"Ivana Reka" Road Bridge

bpl=36,57m
668,8

$h_{100} = 11,38m$
Cestovni most "Ivana Reka"



Right Bank Desna obala	km km	Left Bank Lijeva obala
	667,9	T Ušće kanala Channel Mouth
	667,0	km
Ada River Island	666,8	
	666,0	km
	665,9	
	665,0	km Ada River island
	664,0	km
	663,0	km
Ada River island	662,0	km
	661,0	km
	660,0	km Selo Okunšćak Okunšćak Village
	659,0	km
	658,0	km
	657,3	km Selo Rugvica Rugvica Village
	657,0	km

Right Bank Desna obala	km km	Left Bank Ljeva obala
	656,0	
Telefonski vod Telephone duct	 655,8	Telefonski vod Telephone duct
Selo Gornje Bukevje Gornje Bukevje Village	 655,2	Selo Novaki Oborovski Novaki Oborovski Village
	655,0	
Selo Donje Bukevje Donje Bukevje Village	 654,5	
	654,0	
	653,0	
	652,8	Selo Preseka Oborovska Preseka Oborovska Village
	652,0	
	651,0	
Selo Drnek Drnek Village	 650,5	
	650,0	
Skela Oborovo-Orle Ferry	 649,6	Selo Oborovo Skela Oborovo- Orle Ferry
	649,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Selo Vrbovo Posavsko Vrbovo Posavsko Village	 	648,0
Visokonaponski vod High-voltage duct	 	647,1
		647,0
		646,4
		Pregrada Closure Bund
		Prokop-Rukavac Oborovo Armlet (rkm 646,4-646,9)
		646,0
		645,0
		Selo Prevlaka Prevlaka Village
		644,5
		644,0
		643,4
		Krivina Curve Ustava Prevlaka Prevlaka sluice
		643,0
		642,0
		642,0
		Selo Prečno Prečno Village
		641,0
		640,0
Selo Ruča Ruča Village		Selo Prerovec Prerovec Village

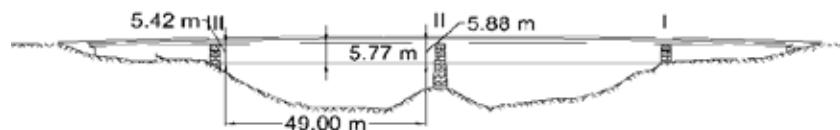
Right Bank Desna obala	km km	Left Bank Ljeva obala
Selo Suša Suša Village	km	639,0
		638,0
Selo Jezero Posavsko Jezero Posavsko Village	km	637,0
		636,0
Selo Desni Dubrovčak Desni Dubrovčak Village Skela Dubrovčak Ferry	km	635,2
		635,0
		634,0
		633,0
		632,0
Selo Desno Željezno Desno Željezno Village	km	631,2
		631,0
		630,0
		629,0
		628,0
		Selo Luka Ljeva Luka Ljeva Village

Right Bank Desna obala	km km	Left Bank Lijeva obala
	627,0	km Krivina Trebarjevo Trebarjevo Curve
km	626,0	
Selo Desno Trebarjevo Desno Trebarjevo Village	km 625,0	Selo Lijevo Trebarjevo Lijevo Trebarjevo Village
km	624,0	
	623,0	km
$h_0=11,71\text{m}$ Road bridge (suspended)	bpl=99,57m 622,8	$h_{100}=3,92\text{m}$ Cestovni viseći most
Selo Martinska Ves Pošta, Ambulanta	622,8	Selo Martinska Ves Lijeva Martinska Ves Lijeva Village
Skelska rampa Ferry slip	622,7	Skelska rampa Ferry slip
	622,0	km
	621,0	km
km	620,0	
	619,0	km

Right Bank Desna obala	km km	Left Bank Ljeva obala
	618,1	Selo Mahovo Mahovo Village
	618,0	
	617,5	
	617,0	Krivina Mahovo Mahovo curve Ustava Sluice
Selo Ljubljanica Ljubljanica Village	616,7	
	615,5	Selo Setuš Setuš willage
	615,0	
Selo Žirčica Žirčica Village	614,0	
	613,0	
Visokonaponski vod High-voltige duct	612,4	 Visokonaponski vod High-voltige duct
Selo Tišina Kaptolska Tišina Kaptolska Village	612,2	 Selo Tišina Erdetska Tišina Erdetska Village Skelo Ferry
	612,0	
Visokonaponski vod High-voltige duct	611,9	 Visokonaponski vod High-voltige duct
Krivina Tišina Tišina curve	611,5	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Selo Strelečko Strelečko Village	 611,0	
	 610,0	
	 609,0	Selo Palanjek Palanjek willage
Visokonaponski vod High-voltige duct	 608,8	Visokonaponski vod High-voltige duct
	 608,0	
	 607,3	Ustava Palanjek Palanjak sluice Krivina Curve
	 607,0	
Visokonaponski vod High-voltige duct	 606,5	Visokonaponski vod High-voltige duct
	 606,0	
Selo Bok Bok willage	 605,8	
	 605,4	Selo Hrastelnica Hrastelnica willage
	 605,0	
	 604,0	Selo Galdovo Galdovo willage
	 603,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Hrastelnica area	602,4	Hrastelnica area
	602,0	
	601,0	
	600,0	
	599,0	
	598,0	Krivina Štakor Štakor curve
	597,0	
	596,3	Industrijsko postrojenje-usis Industrial facility
	596,0	
	595,0	Sisak (rkm 595 – 598)
	594,0	



$h_0=12,70\text{m}$

Galdovo Road Bridge

bpl=49,00m

593,8

hnvpn=5,42 m

Cestovni most Galdovo

Right Bank Desna obala	km km	Left Bank Ljeva obala
	584,5	
	584,0	
Blinja Mouth Ušće Blinje		583,5
Blinjski Kut Village Selo Blinjski kut		583,0
		Ada- Dubovac Area Područje-Ada Dubovac
	582,0	
		Preloščica Winterport-Channel Zimovnik-kanal Preloščica (rkm 584,0-582,0)
Shoal Plićak Blinjski Kut (rkm 582,0- 581,0)		581,0
		Shoal Plićak Blinjski Kut (rkm 582,0-581,0)
	580,7	
	580,0	
	579,0	
	578,2	
	578,0	
		Lukavec Village Selo Lukavec

Right Bank Desna obala	km km	Left Bank Ljeva obala
Gradusa Mouth Ušće Graduse		577,0
Posavska Gradusa Village Selo Posavska Gradusa		576,5
Ferry-underwater line Skelski prelaz Gradusa Posavska- Lukavec-sajla pod vodom		576,2
Underwater duct Podvodni vod – vodovod		
Underwater duct Podvodni vod		576,0
		575,0
Underwater duct Podvodni vod		574,8
Gornja Letina Village Selo Gornja Letina		574,0
		573,3
		573,0
		572,0
		Gauge Gušće Village Vodomjer (89,04 m) Selo Gušće

Right Bank Desna obala	km km	Left Bank Ljeva obala
Donja Letina Village Selo Donja Letina	571,0	
	570,0	
	569,0	
	568,0	
	567,3	Čigoč curve Okuka Čigoč
Ferry-underwater line Skelski prelaz Selište Sunjsko-Kratečko sajla pod vodom	567,0	
Selište Sunjsko Village Selo Selište Sunjsko	566,0	Kratečko Village Selo Kratečko
	565,1	
	565,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	564,5	
	564,0	
Shoal Bistrać Pličak Bistrać (rkm 563,5-562,0)		Shoal Bistrać Pličak Bistrać (rkm 563,5-562,0)
	563,0	
	562,6	
	562,0	
Bobovac Curve Okuka Bobovac		
	561,0	
	560,5	Shoal (rkm 560,0-560,5) Pličak Bobovac
	560,0	
Bobovac Village Ferry-underwater line Selo Bobovac Skelski prelaz podvodna sajla		
	559,6	
	559,0	
	558,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Strmen Shoal Plićak Strmen	~	557,0
Strmen Village Selo Strmen	●	556,0
		555,4
		555,0
Shoal (rkm 554,7-553,7) Plićak Strmen	~	554,7
	[yellow vertical bar]	554,0
	[red 'N' icon]	553,0
		552,0
		551,0
		550,7
		550,5
		550,0
		549,0
		Shoal (rkm 554,7-553,7) Plićak Strmen
		Lonja Shoal Plićak Lonja (rkm 552,0-553,0)
		Lonja Mouth-Weir Ušće Lonje-ustava

Right Bank Desna obala	km km	Left Bank Ljeva obala
	548,0	
	547,2	Trebež Mouth Ušće Trebež
	547,0	Trebež Curve Okuka Trebež
	546,0	
	545,0	
	544,0	
	543,0	
	542,0	
Puska Shoal Plićak Puska (rkm 542,5-541,0)	541,5	Puska Shoal Plićak Puska (rkm 542,5-541,0)
	541,0	Puska Village Selo Puska
	540,0	
	539,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	538,0	
Cvjetni Vir Curve Okuka Cvjetni Vir	537,9	
	537,0	km
	536,0	
	535,2	Brijest Curve Okuka Brijest
	535,0	km
	534,0	km
	533,0	Krapje Village Seat of Lonjsko Polje Nature Park Selo Krapje Uprava Parka Prirode Lonjsko Polje
	532,0	km
	531,0	km
	530,0	km
	529,0	km

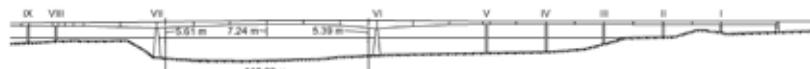
Right Bank Desna obala	km	Left Bank Ljeva obala
Dudunski Bok Area Područje Dudunski Bok		528,8
		
	528,0	
	527,0	
High-voltage duct Visokonaponski vod		526,5
		High-voltage duct Visokonaponski vod
	526,2	
	526,0	
	525,5	
	525,0	
	524,0	
Višnjica Village Selo Višnjica		523,5
		Višnjica Shoal Pličak Višnjica
	523,0	
	522,0	
	521,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	520,0	
	519,0	
	518,5	
Jasenovac Curve Okuka Jasenovac	518,0	
$h_0=14,35m$ Jasenovac Railway Bridge	hpl=41,00m 517,4	hnvpn=6,16m Željeznički most Jasenovac
Uštica Village Selo Uštica	517,0	
	516,3	
	516,1	
	516,0	
	515,8	
		Jasenovac Gauge Vodomjer Jasenovac (86,82 m)
		Jasenovac Jasenovac

Right Bank
Desna obala

km
km

Left Bank
Ljeva obala



$h_0=13,59\text{m}$

Jasenovac Road Bridge



Una Mouth
Border (BiH-HR)
Ušće Une
Granica (BiH-HR)

bpl=110m

515,6

hnvpn=5,39m

Cestovni most Jasenovac



515,6

515,2

515,0



514,0



513,0



512,0



511,0



510,5

510,0

509,0

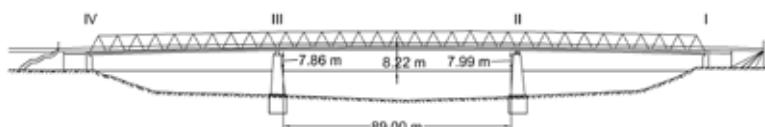
Koštarica
Village
Selo Koštarica

Right Bank Desna obala	km km	Left Bank Lijeva obala
	508,0	
	507,0	
Pumping Station Viroska Crpna stanica Viroska	506,5	
	506,0	
	505,0	
	504,0	
	503,0	
	502,0	
	501,0	
	500,9	 Javička Greda Curve Okuka Javička Greda
	500,0	
	499,0	
	498,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	497,0	
	496,0	
	495,0	
	494,0	
	493,5	
	493,0	
	492,0	Mlaka Village Selo Mlaka
	491,5	Mlaka Curve Okuka Mlaka
	491,0	
	490,0	
	489,0	
	488,0	
	487,0	 Strmac Curve Okuka Strmac
	486,7	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	486,0	
	485,0	
Orahova Village Selo Orahova	484,5	
	484,0	
	483,0	
	482,0	
	481,0	
	480,0	
	479,0	
Mala Gaštica Mouth Ušće Male Gaštice	478,5	
	478,0	
	477,0	
	476,0	
	475,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	474,0	
	473,0	
	472,0	
	471,0	
Jablanica Mouth Ušće Jablanice	470,7	
	470,0	
	469,0	
	468,0	Uskoci Village Selo Uskoci
	467,9	
	467,0	Gauge (85,39 m) Stara Gradiška Vodomjer Stara Gradiška
	466,5	Winter Shelter Zimsko sklonište



$h_0=17,03\text{m}$

Bosanska Gradiška/Gradiška
Road Bridge

bpl=89,00m

466,2

hnvpn=7,86m

Cestovni most
Bosanska Gradiška/Gradiška

Right Bank Desna obala	km km	Left Bank Lijeva obala
 		
Gradiška Town Gradiška	 	466,0
	 	
Jurkovica Mouth Ušće Jurkovice	 	465,0
	 	464,0
	 	463,0
		462,7
	 	462,0
	 	Pivare Village Selo Pivare
		
	 	461,0
	 	Pivare Curve Okuka Pivare
	 	460,0
		459,0

Right Bank Desna obala	km km	Left Bank Ljeva obala
	458,0	
	457,5	Savski Bok Village Selo Savski Bok
	457,2	Trnava Mouth Ušće Trnavе
	457,0	
Mačkovac Village Selo Mačkovac	456,0	
	455,5	
	455,0	
	454,1	Mačkovac Curve-upstream Okuka Mačkovac-uzvodno
	454,0	
Mačkovac Curve Okuka Mačkovac	453,1	
	453,0	
	452,5	Mačkovac Village Selo Mačkovac
	452,0	
	451,5	Mačkovac Shoal Pličak Mačkovac

Right Bank Desna obala	km km	Left Bank Ljeva obala
	451,3	  Mačkovac Gauge Mačkovac Weir Ustava Mačkovac
	451,0	
High-voltage Duct Dolina Pumping Station Visokonaponski vod Crpna stanica Dolina	450,0	  High-voltage Duct Visokonaponski vod
Dolina Village Selo Dolina	449,0	
Dolina Shoal Pličak Dolina	448,0	  Dolina Shoal Pličak Dolina (rkm 450,0-446,0)
	447,0	
Jugovići Village Selo Jugovići	446,5	
	446,0	
	445,0	  Lufinja Pumping Station Crpna stanica Lufinja
	444,0	
	443,0	
	442,5	
	442,3	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	442,0	
Orubica Village Selo Orubica		
	441,0	
	440,0	
	439,0	
	438,0	
Matura Channel Mouth Ušće kanala Matura		
	437,9	
	437,0	
	436,0	
	435,0	
	434,2	Gaj Čošak Curve Okuka Gaj Čošak
	434,0	
	433,0	
	432,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Gaj (Bajinci) Pumping Station Bajinci Village Crpna stanica Gaj (Bajinci) Selo Bajinci	431,0	
Matura Shoal Pličak Matura	430,3	
	430,0	Matura Shoal Pličak Matura
	429,0	
	428,5	
	428,0	
Vrbas mouth Ušće Vrbasa	427,0	
	427,0	
Ferry Berthing Place Rampa	426,8	Davor Village Selo Davor
Srbac Town Srbac	426,5	
	426,5	Ferry Berthing Place Rampa
	426,0	
	425,0	
	424,0	Winter Shelter Zimsko sklonište
		

Right Bank Desna obala	km km	Left Bank Ljeva obala
	423,8	Davor Gauge Pumping station Crpna stanic Davor Vodomjer Davor (82,78 m)
	423,0	
	422,0	 Davorski Bokovi Area Područje Davorski Bokovi
	421,0	
	420,5	
	420,0	
Herceg Dol Curve Okuka Herceg Dol	419,7	
Gornji Kaoci Village Selo Gornji Kaoci	419,0	
	418,0	
	417,0	 Radinje Area Područje Radinje (rkm 417,0-410,0)
	416,0	

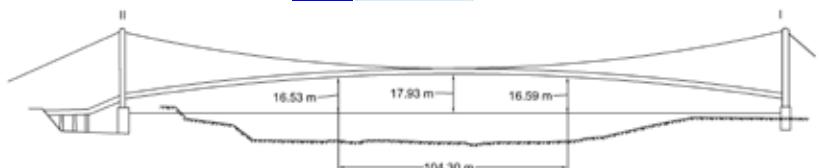
Right Bank Desna obala	km km	Left Bank Lijeva obala
	415,0	
Donji Kaoci Village Vlaknica Mouth Selo Donji Kaoci Ušće Vlaknica		414,0
Shoal Pličak		413,0
Motajica Liman Area Područje Motajički Liman (km 413,0-412,0)		412,4
	412,0	
	411,0	
	410,5	Crnac Mouth- upstream Branch Ušće kanala Crnac 1. krak
	410,0	
	409,0	
	408,0	
	407,8	
Brusnik Village Selo Brusnik		407,5
	407,0	Pričac Village Selo Pričac

Right Bank Desna obala	km km	Left Bank Ljeva obala
	406,8	Rinovica-Weir Ušće Rinovice-ustava
	406,0	
	405,0	
	404,0	
	403,0	
Shoal (rkm 402,0-400,7) Pličak Kobaš	402,0	
Grdelica Mouth Ušće Gradelice	401,0	
Bosanski Kobaš/ Kobaš Village Selo Bosanski Kobaš/Kobaš	400,5	
	400,0	
	399,0	
	398,0	
Osavica Mouth Ušće potoka Osavica	397,1	
	397,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	396,0	
	395,8	 Grlić Pumping Station Crpna stanica Grlić
Shoal Pličak	395,0	
Crna Rijeka Mouth Ušće potoka Crna Rijeka	394,8	
	394,0	
	393,0	
	392,0	
	391,0	
	390,0	
	389,0	 Dubočac Shoal Pličak Dubočac (rkm 390,0-388,0)
Dubočac Village Selo Dubočac	388,7	
	388,0	
	387,2	
	387,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Zbjeg Shoal Pličak Zbjeg (rkm 385,0–382,0)	386,0	
	385,0	
	384,0	
	383,1	
	383,0	
Zbjeska Ada Island Zbjeska Ada	382,5	
	382,0	Zbjeska Urija Area Područje Zbjeske Urije
Ukrina Mouth Ušće Ukrine	381,5	
	381,0	
Shoal (rkm 380,0–379,0) Pličak Migalovci	380,0	
	379,0	Migalovci Recreation Centre Rekreacioni centar Migalovci
	378,6	Migalovci Pumping Station Crpna stanica Migalovci
	378,6	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	378,2	Shoal (rkm 378,2-377,0) Plićak Sijekovac
	378,0	km
	377,0	km
Sijekovac Village Selo Sijekovac	376,7	
	376,5	
Underwater Duct Podvodni vod	376,45	Underwater Duct Podvodni vod
	376,4	
	376,0	km
	375,0	Possibility turning Area Winter Shelter Moguće okretište Zimsko sklonište
	375,0	
	374,9	



$h_0 = 24,00 \text{ m}$

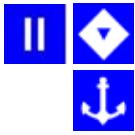
Pipeline Bridge

bpl=104,30m

374,9

hnvpn=16,53m

Produktovod most

Right Bank Desna obala	km km	Left Bank Ljeva obala
	374,8	
		
Oil Refinery Rafinerija nafte		374,7 
Pipeline JANAF	374,6 	374,6  Pipeline JANAF
Reloading Place Pretovorno mjesto rafinerije nafte		374,5 
	374,1 	
	374,0 	
	373,8 	
	373,6 	
	373,0 	
Brod Town Brod	 	372,0  
	371,6 	Mrsunja Gauge Crpna stanica Mrsunja
		Mrsunja Mouth Ušće kanala Mrsunja

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



$h_0=15,03\text{m}$

Road Bridge
Bosanski Brod/Brod-Slavonski Brod

Brodska Ada Island
Brodska ada



$bpl=66,30\text{m}$

$h_{nvpn}=7,65\text{m}$
Cestovni most
Slavonski Brod-Bosanski Brod/Brod

371,5

371,5



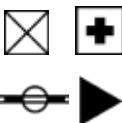
371,3



Gauge
Vodomjer

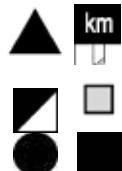
Slavonski Brod (81,80 m)

371,0



Slavonski Brod
Town
Slavonski Brod

371,0



Slavonski Brod
Town
Slavonski Brod

370,1



370,0



369,0



368,0

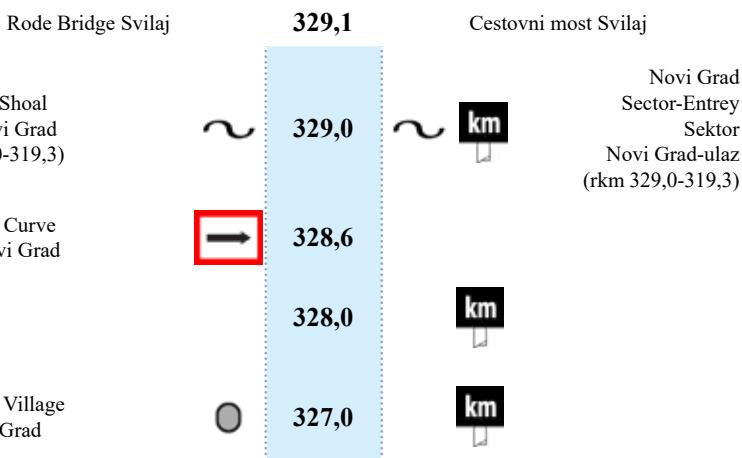
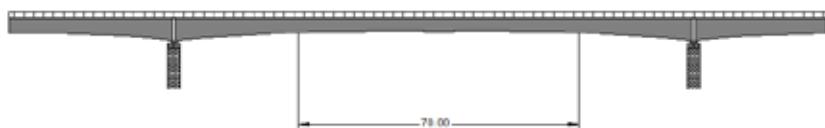
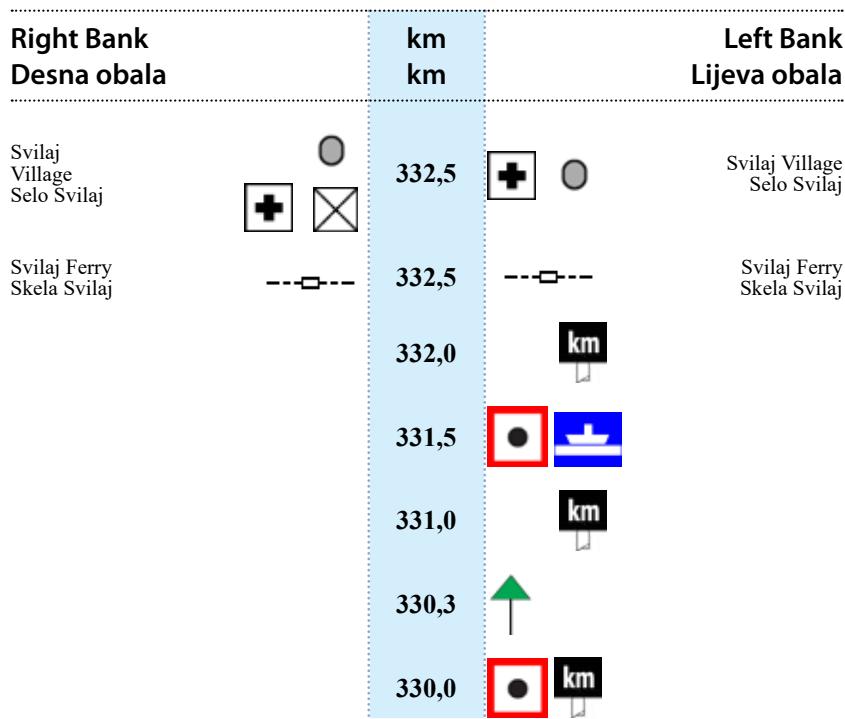


Right Bank Desna obala	km km	Left Bank Ljeva obala
Brodsko Polje Pumping Station Crnna stanica Brodsko Polje	367,0	Shoal Plićak Poloj (rkm 367,0-366,0)
	366,8	
	366,6	Poloj Bay Kupalište Poloj
	366,3	
	366,0	 km
	365,0	 km
	364,9	Glogovica Mouth Ušće Glogovice
High voltage Duct Visokonaponski vod	364,6	High voltage Duct Visokonaponski vod
	364,0	 km
	363,6	
	363,4	 Port of Slavonski Brod Luka Slavonski Brod
	363,2	
	363,0	 km Oill Terminal Naftni terminal

Right Bank Desna obala	km km	Left Bank Ljeva obala
	362,8	 
	362,2	 
	362,0	
	361,2	
Pipeline JANAF	361,1	
	361,0	 
	360,0	
	359,0	
Moclek Curve Okuka Moclek	358,1	
Liješće Village Selo Liješće	358,0	
	357,0	
	356,0	
	355,0	
	354,0	
	353,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Donji Klakar Village Selo Donji Klakar	352,0	Klakar Village Selo Klakar
	351,0	
	350,0	
Velika Brusnica Village Quarry Selo Velika Brusnica Kamenolom	349,8	
	349,0	
	348,0	
	347,0	
Mala Brusnica Village Selo Mala Brusnica	346,0	
	345,0	
	344,0	
Ugljara Area Područje Ugljara	343,5	
Shoal Plićak	343,0	
	342,2	Donja Bebrina Area Područje Donja Bebrina

Right Bank Desna obala	km km	Left Bank Lijeva obala
	342,0	
	341,0	
	340,0	Gajna Area Područje Gajna
Canal Mouth Ušće kanala	339,2	Lateral Channel Mouth Ušće lateralnog kanala
	339,0	
	338,0	
	337,5	Oprisavci Village Selo Oprisavci
	337,2	
	337,0	
	336,0	
	335,0	
	334,0	
	333,0	



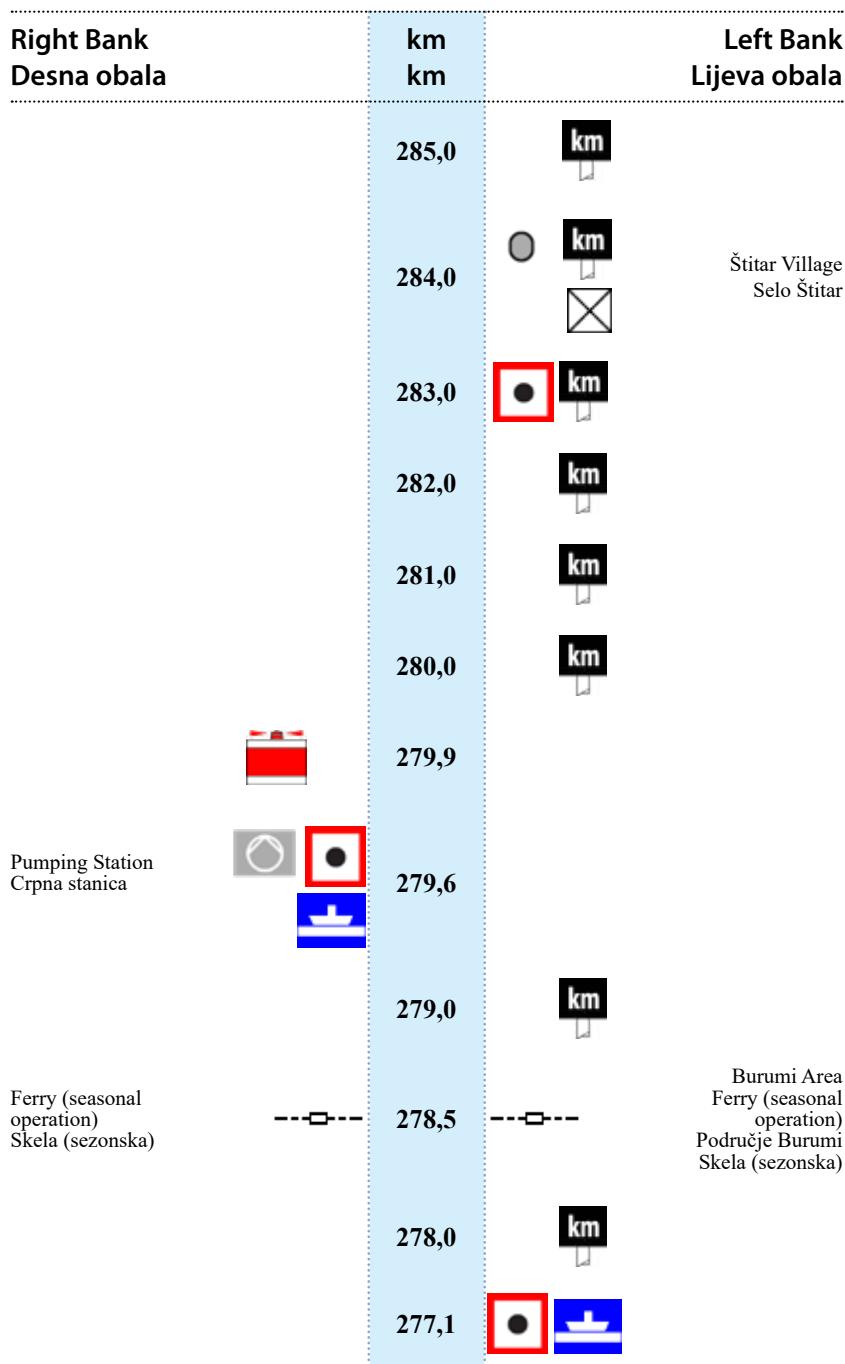
Right Bank Desna obala	km km	Left Bank Ljeva obala
	326,0	
	325,0	Novi Grad Village Selo Novi Grad
	324,0	
Zorice Pumping Station Crpna stanica Zorice	323,1	
	323,0	
	322,0	
Zorice Village Selo Zorice	321,0	
	320,0	Jaruge Village Selo Jaruge
Novi Grad Sector-Exit Sektor Novi Grad-izlaz	319,3	Novi Grad Sector-Exit Sektor Novi Grad-izlaz
	319,0	
	318,0	
	317,0	
	316,8	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Underwater Duct Podvodni vod	316,7	Underwater Duct Podvodni vod
	316,5	
	316,0	Jabuka Winter Shelter Zimsko sklonište Jabuka
	315,0	
	314,8	Slavonski Šamac Reloading Site Pristanište Slavonski Šamac
Bosna Mouth Ušće Bosne	314,5	Gauge Vodomjer Slavonski Šamac (rkm 80,70 m)
Šamac Town Šamac	314,0	Slavonski Šamac Village Selo Slavonski Šamac
Port of Šamac Luka Šamac	313,0	
	312,8	
	312,5	
	312,1	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	312,0	
h ₀ =14,65m Road-Railway Bridge Bosanski Šamac/Šamac	311,8	h _{nvpn} =8,14m Cestovno-željeznički most Bosanski Šamac/Šamac
High voltage Duct Visokonaponski vod	311,2	
	311,0	
	310,0	
	309,3	
	309,0	
Bukovi Shoal Plićak Bukovi	308,6	
	308,0	
	307,0	
Grebnice Village Vučjak Curve Selo Grebnice Okuka Vučjak	306,7	
	306,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Klenić Shoal Pličak Klenić	305,0	
	304,0	
	303,0	Nevjerica Shoal Pličak Nevjerica
	302,0	
	301,0	
Ferry Berthing Place Skelska rampa	300,6	Ferry Berthing Place Skelska rampa
	300,5	
	300,0	Dubočica area Područje Dubočica
Underwater Duct Podvodni vod	299,9	Underwater Duct Podvodni vod
	299,8	
	299,5	
	299,0	
	298,0	
	297,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	296,0	 
Domaljevac Village Selo Domaljevac	295,0	 
	294,0	 
	293,7	 
	293,0	
	292,0	
	291,2	 Ajdukovo Area Područje Ajdukovo
	291,0	
	290,0	
	289,0	  Rastovica Shoal Pličak Rastovica (rkm 289,0–286,0)
	288,0	
	287,0	  
	286,0	  Winter Shelter Zimsko sklonište



Right Bank Desna obala	km km	Left Bank Lijeva obala
	277,0	
Tolisa Village Selo Tolisa		276,8
Tolisa Shoal Plićak Tolisa		276,0
	275,8	
	275,0	
	274,0	
	273,0	Repovac Shoal Plića kRepovac
	272,5	
	272,0	
	271,6	
	271,0	
	270,0	
	269,5	Županja Reloading Site Pristanište Županja

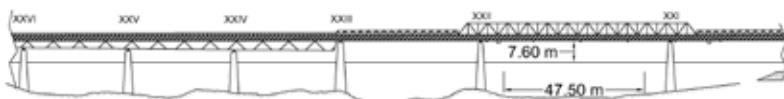
Right Bank Desna obala	km km	Left Bank Ljeva obala
	269,0	
	268,7	
	268,0	
	267,6	 Županja Gauge Županja Vodomjer (76,28 m) Županja
	267,0	
	266,0	
	265,7	Županja Ciglana Area Područje Županja Ciglana
	265,5	Poloji Bay Plaža Poloji
	265,0	
	264,0	
	263,0	
	262,7	
Underwater Duct Podvodni vod	262,4	Underwater Duct Podvodni vod

Right Bank Desna obala	km km	Left Bank Lijeva obala
	262,0	
Reloading Site Pristanište Orašje		261,8
		Winter Shelter Zimsko sklonište
		XII XI X
$h_0=15,88m$ Road Bridge Orašje-Županja	bpl=117,80m 261,6	hnvpn=7,73m Cestovni most Županja-Orašje
High voltage Duct Visokonaponski vod	261,0	
	260,0	
	259,0	
	258,0	
	257,5	
	257,0	
Kopanice Village Selo Kopanice		
	256,0	
	255,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	254,9	
	254,0	
	253,0	
	252,0	
	251,0	
	250,0	
	249,9	 Topola Area Područje Topola
	249,0	
	248,0	
	247,0	
Vidovice Village Selo Vidovice	246,0	
	245,0	
	244,0	
	243,7	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	243,0	
	242,0	
	241,0	
	240,0	
Pumping Station Krepšić Village Selo Krepšić Crpna stanica		
	239,0	
	238,0	Rajevo Selo Curve Okuka Rajevo Selo
	237,0	
	236,0	
	235,0	
Tinja Mouth Ušće Tinje		
	234,3	
	234,0	
Plazulja Village Selo Plazulja		
	233,0	
	232,0	

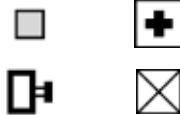
Right Bank Desna obala	km km	Left Bank Ljeva obala
	231,0	
	230,0	
Brka Mouth Ušće Brke		
Gauge (76,62 m) Vodomjer Brčko		228,6



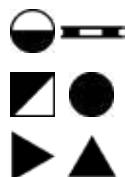
$h_0=14,12\text{m}$

Road Bridge Brčko-Gunja

Brčko
Town
Brčko



Port of Brčko
Border Crossing
Luka Brčko
Granični prelaz



Port of Brčko
Luka Brčko

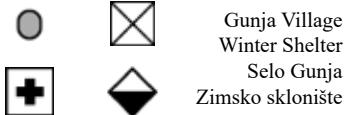


bpl=47,50m

228,6

hnvpn=7,60m

Cestovni most Gunja-Brčko



Gunja Village
Winter Shelter
Selo Gunja
Zimsko sklonište

228,4

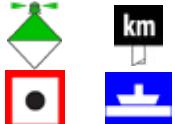
228,4

228,2

228,1

Right Bank Desna obala	km km	Left Bank Lijeva obala
	228,0	
	227,5	
	227,0	
<p>XVIII XVII</p> <p>9.77 m 8.14 m 9.71 m 9.64 m 120.00 m</p>		
$h_o = 16,06m$ $bpl = 120,00m$ $h_{nvpn} = 8,14m$ Railway Bridge Brčko-Gunja Željeznički most Gunja-Brčko		
	226,9	
	226,4	
	226,0	
	225,0	
	224,9	
	224,0	
	223,0	 Gunja Shoal Konjuša Pumping Station Plićak Gunja (rkm 223,0–221,0)
	222,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	221,0	
	220,8	
	220,0	
	219,7	
Trnjani Shoal Plićak Trnjani	219,0	
	218,0	
	217,0	
	216,7	
Brezovo Polje Village Selo Brezovo Polje	216,0	 
	215,0	
	214,0	
	213,8	  Teča Pumping Station Crpna stanica Teča
	213,0	
Shoal Plićak (rkm 212,0–211,0)	212,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Lukavac Channel Mouth Nakić-Kula Nakić-Kula Ušće kanala Lukavac	211,0	
	210,8	Channel Mouth Border CRO-SRB Ušće kanala Račinovac Devojačka kula granica HR-SRB
	210,0	
	209,0	
	208,0	
Crnjelovo Pumping Station Crpna stanica Crnjelovo	207,2	
	207,0	
	206,0	
Crnjelovo Village Selo Crnjelovo (3km)	205,0	Jamena Village Selo Jamena (2 km)
Ferry Border Crossing Skela Cestovni granični prelaz Subotiće-Jamena	204,8	Jamena Gauge (72,44) Vodomjer Jamena
	204,8	Ferry Border Crossing Skela Cestovni granični prelaz Jamena-Subotiće
	204,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	203,0	
	202,0	
	201,8	
Pumping Station Crpna stanica		
	201,0	
	200,3	
	200,0	
	199,0	
	198,0	
	197,0	
Pumping Station Crpna stanica		
	196,4	
	196,0	
	195,0	
	194,0	
	193,0	
	192,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	191,0	
Visoč Area (rkm 191-190) Područje visoč	190,7	
	190,0	
	189,0	
	188,0	Lisnik Area Sektor Lisnik (rkm 188,0–187,0)
	187,0	
	186,0	
	185,0	
	184,0	 Bela Crkva Area Sektor Bela Crkva (rkm 184,0–182,5)
	183,9	
	183,8	High voltage Duct Visokonaponski vod
Rača Road-Railway Bridge	183,3	Cestovno-željeznički most Rača

Indicator of river kilometres for The Sava River and its navigable Tributaries

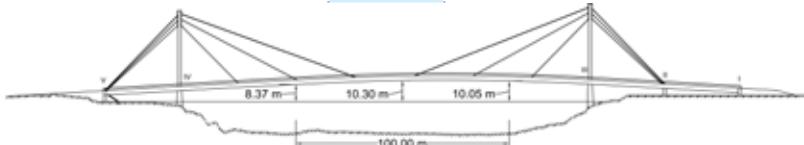
Right Bank Desna obala	km km	Left Bank Ljeva obala
Road Cross Border BiH-SRB Cestovni granični prelaz BiH-SRB	 183,3	
	183,0	
	182,0	
	181,0	
	180,0	
 	179,7	
	179,5	Rača Sector- Entrey Sektor Rača-ulaz
	179,2	T Signal Spot (out of Function) Signalna stanica (van funkcije)
	179,0	
	178,7	
Bosanska Rača/Rača Village Selo Bosanska Rača/Rača (1,5 km)	 178,5	
Drina Mouth Border BiH-SRB Ušće Drine Granica (BiH-SRB)	 178,0	
	177,0	 

Right Bank Desna obala	km km	Left Bank Lijeva obala
	176,9	
	176,0	
	175,2	
	175,0	
Sunken Object Potopljeni objekat	174,8	
	174,0	
	173,0	
	172,6	Poloj Signal Spot (out of function) Rača Sector Exit Signalna stanica Poloj (van funkcije) Sektor Rača-izlaz
	172,4	
	172,0	
	171,5	
	171,0	
	170,0	Stara Sava Area Područje Stara Sava (rkm 169,0-170,0)

Right Bank Desna obala	km km	Left Bank Ljeva obala
	169,0	
	168,0	
Crna Bara Village Selo Crna Bara (4 km)		167,7
	167,0	
	166,0	Banov Brod Area Područje Banov Brod
	165,4	
	165,0	
	164,0	
	163,0	Bosut Village Selo Bosut (1 km)
	162,5	Bosut Mouth Ušće rijeke Bosut
	162,3	Pumping Station Crpna stanica
	162,0	
	161,4	
	161,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Sunken Object Potopljeni objekat	160,1	
	160,0	
	159,7	Klještevica Village Selo Klještevica (1 km)
	159,0	
	158,0	
	157,0	
Ravnje Village Selo Ravnje (1 km)	156,0	
	155,6	
	155,0	
	154,4	Popov Salaš Area Područje Popov Salaš
	154,0	
	153,4	
	153,0	Channel Mouth Ušće kanala
	152,2	
		
		Martinci Village Selo Martinci (4 km)

Right Bank Desna obala	km km	Left Bank Ljeva obala
	152,0	
	151,0	
	150,0	
	149,0	
	148,0	
Special Nature Reserve „Zasavica“ Prirodni rezervat „Zasavica“ (rkm 145,0-150,0)	147,0	Kurjakovac Area Područje Kurjakovac
Zasavica Village Selo Zasavica (0,8 km) 	146,0	
	145,0	
	144,4	
	144,0	
Shipyard Brodogradilište 	143,6	
	143,0	
High voltage Duct Visokonaponski vod 	142,2	 High voltage Duct Visokonaponski vod
	142,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	141,9	 Reloading Place Pretovorno mjesto
	141,0	
	140,0	
	139,9	 Water Duct Vodovod
Underwater Duct Podvodni TT vod		 Underwater Duct Podvodni TT vod
Underwater Duct Podvodni električni kabal	 	  Underwater Duct Podvodni električni kabal
	139,85	
	139,7	
		
$h_0=14,59m$	bpl=100,00m	hnvpn=8,37m
Sr. Mitrovica Pedestrian Bridge	139,3	Pješački most Sr. Mitrovica
	139,24	Gauge (72,22 m) Vodomjer Sremska Mitrovica
'Underwater Duct Podvodni kabal		Underwater Duct Podvodni kabal
Mačvanska Mitrovica	 	  Sremska Mitrovica Frish Water Pitka voda
	139,0	
	139,0	  Border Police Granična policija Border Crossing Granični prelaz

Right Bank Desna obala	km km	Left Bank Ljeva obala
	138,9	  
Underwater Optical Duct Podvodni optički kabal	138,85	Underwater Optical Duct Podvodni optički kabal
	138,8	
Bogaz Channel Mouth Ušće kanala Bogaz	138,7	
Noćajski Salaš Village Selo Noćajski salaš (1,7 km)	138,6	Underwater Duct Podvodni kabal
	138,5	
	138,4	 Bay Plaža
	138,1	  Bay Plaža
	138,0	
	137,0	



$$h_0=15,44\text{m}$$

Sremska Mitrovica Road Bridge

$$\text{bpl}=150,00\text{m}$$

136,6

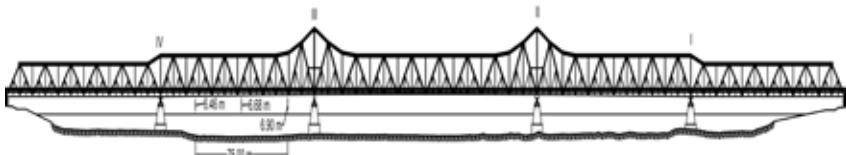
$$\text{hnvpn}=9,30\text{m}$$

Cestovni most Sremska Mitrovica

Right Bank Desna obala	km km	Left Bank Lijeva obala
	136,0	
	135,8	
	135,7	
	135,0	 Winter Shelter Zimsko sklonište (rkm 138,5-138,1)
	134,8	
	134,6	 Reloading Place Pretovarno mjesto/kosi kej-fabrika celuloze
	134,4	
	134,0	
	133,0	
	132,0	
	131,1	Memorial Site „Leget“ Spomen obilježje „Leget“
	131,0	
Channel Mouth Ušće kanala	130,4	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Čevrntija Area Područje Čevrntija	130,0	
	129,0	
	128,0	
Potopljeni brod "Slovenac" Sunken Object	127,5	
	127,0	
Bitva Channel Mouth Ušće kanala Bitva	126,8	
	126,0	 
Vrbovača Area Vrbovača (šire područje)	125,5	
	125,0	
	124,0	 Jarak Village Selo Jarak (0,8 km)
	123,7	
	123,3	
	123,0	
		

Right Bank Desna obala	km km	Left Bank Lijeva obala
	122,0	
	121,0	
	120,0	
	119,0	
	118,0	
Drenovac Village Selo Drenovac (1,7 km)	117,0	
	116,1	
	116,0	
	115,0	Sinajska Bara Area Područje Sinajske Bare
	115,0	
	114,0	
	113,0	
	112,5	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	112,0	
	111,0	
Drenovac Channel Sector Sektor Drenovački kanal (rkm 111,7-107,0)	110,0	
Ex Military Ferry berthing Pleace Nekadašnja vojna rampa	109,8	
	109,0	
Koča Channel Kočin kanal	108,8	
	108,0	
	107,7	
	107,0	
 <p>h₀=11,26m bpl=75,00m hnvpn=6,46m</p> <p>Šabac Railway Bridge Željeznički most Šabac</p>		
Gauge (72,61 mm) Vodomjer Šabac	107,0	
	106,28	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Silo Reloading Place Pretovorno mjesto-silos	106,2	
	106,0	
Šabac Old Town Šabački „Stari grad“ srednjevjekovno utvrđenje	105,5	
		
Šabac Town Šabac	105,0	
		
Oil Terminal Pristan za pretovar tečnih tereta	104,6	
		



Šabac Road Bridge	$h_0=14,13\text{m}$	bpl=80,00m	104,5	$h_{nvpn}=9,42\text{m}$	Cestovni most Šabac
	104,0				
Reloading Place Fabričko pristanište vertikalni kej		103,7			
	103,0				
	102,8				Upstream Part of Mišarska Ada Island Mišarska Ada,vrh
Dumača Channel Dumača kanal		102,6			

Right Bank Desna obala		km km	Left Bank Ljeva obala
Jelenča Village Selo Jelenča (1,7 km)		102,0	
Port of Šabac Luka Šabac		101,0	Mišarska Ada Island Mišarska Ada
Mišar Village Selo Mišar (2 km)		100,5	Downstream Part of Mišarska Ada Island Mišarska Ada-kraj
High voltage Duct Visokonaponski vod		100,0	
Pipeline Gasovod		99,8	 High voltage Duct Visokonaponski vod
		99,0	
		98,9	
		98,7	Pipeline Gasovod
Orašac Village Selo Orašac (1,8 km)		98,5	
		98,0	
		97,2	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	97,0	
	96,0	
Mrđanovac Sector Sektor Mrđenovac (rkm 98,0-95,0)	95,0	Mrđanovac Sector Sektor Mrđenovac (rkm 98,0-95,0)
	94,4	Vitojevačka Ada Island Vitojevačka Ada (rkm 93,6-95,3)
	94,0	
	93,0	
	92,0	
	91,0	
Dragojevac Village Selo Dragojevac (1,8 km)	90,5	
Široke Njive Sector Sektor Široke Njive (rkm 92,0-89,0)	90,0	Široke Njive Sector Sektor Široke njive (rkm 92,0-89,0)
Entrey of Kamičak Sector Sektor Kamičak-ulaz (rkm 89,0 – 82,3)	89,0	Entrey of Kamičak Sector Sektor Kamičak-ulaz
	89,0	
	88,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	87,0	
	86,8	Upstream Part of Podgorička Ada Island Podgorička Ada,vrh- građevina
	86,0	
	85,0	
Winter Shelter Zimsko sklonište (rkm 82,3-85,5)	84,5	
	84,0	
	83,2	
	83,0	
Exit of Kamičak Sector Sektor Kamičak-izlaz (rkm 82,3 – 89,0)	82,3	Downstream Part of Podgorička Ada Island Exit of Kamičak Sect. Sektor Kamičak-izlaz Podgorička Ada-kraj
	82,0	
	81,0	
Plandište Area (rkm 82,0-81,0) Područje Plandište Orlača Area (rkm 82,0-71,0) Područje Orlača	80,0	 Vrbica-Plandište Area Područje Vrbica- Plandište (rkm 82,0-81,0)

Right Bank Desna obala	km km	Left Bank Lijeva obala
	79,0	
	78,3	Krstovi Area Područje Krstovi
	78,0	
	77,0	
	76,0	
	75,0	
	74,6	Miloševa Ada Island Miloševa ada
	74,2	
	74,0	
	73,0	
	72,0	
Provo Village Selo Provo (2 km)	71,0	
Duboka Area Područje Duboka (km 70,0-69,0)	70,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	69,5	Kupinski Kut Kupinski kut
	69,0	
Novo Selo Village Novo Selo	68,4	
	68,0	
Beljin Gauge (69,99) Vodomjer Beljin	67,53	
Silo Silos	67,1	
Mesarci Village Debrc Reloading Place Selo Mesarci Utvornino mjesto Debrc	67,0	
	66,0	
Beljin Village Selo Beljin (3,7 km)	66,0	
	65,0	
	64,0	
Vukodraž Village Selo Vukodraž Ušće Village Selo Ušće (2 km)	63,6	
	63,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Channel Mouth Kanal-Vukodraž	 	62,0
Power Plant Oil Terminal Pretovarno mjesto T/E (tečni tereti)		61,5
Obrenovac „B“ Power Plant (hot Water Outlet) Termoelektrana Obrenovac “B“ (ispust vrele vode)	 	61,4
		61,0
		60,8
		Upstream Part of Mozerova Ada Island Mozerova Ada-vrh
		60,0
		Mozerova Ada Island Mozerova Ada
		59,1
Upstream Part of Skelska Ada Island Skelska Ada vrh		Downstream Part of Mozerova Ada Island Mozerova Ada-kraj
		59,0
		
		58,5
		58,0
Skelska Ada Island Skelska Ada		
		57,3
Winter Shelter Zimsko sklonište (rkm 55,9-57,1)		
Ferry Skelski prelaz		56,7
		Obedska Bara Channel Mouth Kanal iz Obedske Bare

Right Bank Desna obala	km km	Left Bank Ljeva obala
Skela Village Selo Skela	56,2	
	56,0	km
Downstream of Skelska Ada Island Skelska Ada-kraj	55,9	
	55,5	km
	55,0	km
	54,5	Water Supply Facility Reni bunar
km	54,0	
	53,5	Water Supply Facility Reni bunar
	53,2	Water Supply Facility Reni bunar
km	53,0	
	52,95	Water Supply Facility Reni bunar
	52,7	Water Supply Facility Reni bunar
km	52,0	
	51,85	Water Supply Facility Reni bunar

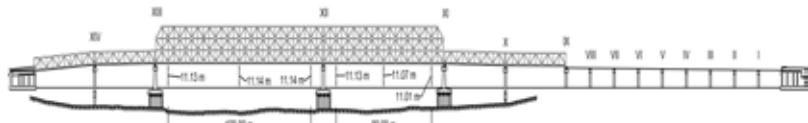
Right Bank Desna obala	km	Left Bank Ljeva obala		
High voltage Duct Visokonaponski vod		51,5	High voltage Duct Visokonaponski vod	
		51,45		Water Supply Facility Reni bunar
Pumping Station Crpna stanica Krtinski kanal	 	51,4		
		51,0		
		50,95		Water Supply Facility Reni bunar
High voltage Duct Visokonaponski vod		50,9	High voltage Duct Visokonaponski vod	
High voltage Duct Visokonaponski vod		50,8	High voltage Duct Visokonaponski vod	
		50,45		Water Supply Facility Reni bunar
		50,25		Water Supply Facility Reni bunar
		50,0		Water Supply Facility Reni bunar
		49,6		Water Supply Facility Reni bunar
		49,1		Water Supply Facility Reni bunar
		49,0	Water Tower Vodotoranj	
		48,7		Upstream Part of Progarska Ada Island Progarska Ada, vrh

Right Bank Desna obala	km km	Left Bank Ljeva obala
	48,35	Water Supply Facility Reni bunar
	48,3	
	48,0	
	47,95	Water Supply Facility Reni bunar
	47,8	Progarska Ada Island Progarska Ada
	47,6	Water Supply Facility Reni bunar
	47,2	Water Supply Facility Reni bunar
	47,0	
	46,7	Progar Village Downstream Part of Progarska Ada Island Selo Progar Progarska Ada-kraj
	46,0	
	45,0	
	44,0	Pumping Stations Crpna stanica
	43,1	
„Obrenovac A“ Power Plant Termoelektrana „Obrenovac A“	43,0	

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



$h_0=17,83\text{m}$

bpl=1 x 80,00m/1 x 120,00m

hnvpn=11,01m

Road-Pipeline Bridge Obrenovac

42,53

**Drumsko-toplodalekovođni
most Obrenovac**

High voltage Duct
Visokonaponski vod



42,3

High voltage Duct
Visokonaponski vod

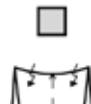
High voltage Duct
Visokonaponski vod



42,2

High voltage Duct
Visokonaponski vod

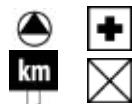
Obrenovac
High voltage Duct
Obrenovac
Visokonaponski vod



42,0

High voltage Duct
Visokonaponski vod

Silo Reloading
Place
Pretovarno
mjesto-silos



42,0

High voltage Duct
Visokonaponski vod



41,9

High voltage Duct
Visokonaponski vod

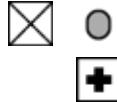


41,0



40,0

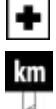
Zabrežje Village
Selo Zabrežje
(0,8 km)



39,3



39,0

Right Bank Desna obala	km km	Left Bank Ljeva obala
Reloading Place (out of function) Pretovorno mjesto-kosi kej (van funkcije)		
		38,8
		38,0
		37,7
		37,0
		36,9
		36,6
		36,0
		35,5
		35,3
		35,0
	 	Boljevci Village Selo Boljevci (1 km)
		34,7
		34,5
		34,1
		34,0
		

Right Bank Desna obala	km km	Left Bank Lijeva obala
	33,7	Water Supply Facility Reni bunar
	33,0	
	32,9	
	32,0	
Čair Area Područje Čair	31,0	
	30,8	
Perilo Area Područje Perilo	30,0	
	29,0	
	28,2	
	28,0	
Kolubara Mouth Ušće Kolubare	27,6	
Upstream Part of Kolubarska Ada Island Kolubarska Ada-vrh	27,0	Upstream Part of Kolubarska Ada Island Kolubarska Ada-vrh
Barić Village Selo Barić	27,0	
	27,0	
	26,3	
Oil Terminal Pristan za tečne terete	26,3	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Kolubarska Ada Island Kolubarska Ada	 	 
	26,0	Kolubarska Ada Island Kolubarska Ada
	 	25,0
Downstream Part of Kolubarska Ada Island Kolubarska Ada, kraj		25,0
Mala Moštanica Mala Moštanica (2,5 km)	 	24,3
	 	24,0
	23,0	
Underwater Duct Podvodni kabal		22,6
Umka Village Selo Umka (0,8 km)	  	22,0
Factory Fabričko postrojenje		21,0
	20,0	
	19,6	
	19,3	
		19,0

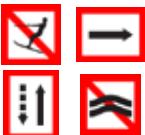
Right Bank Desna obala	km km	Left Bank Lijeva obala
	18,7	Water Supply Facility Reni bunar
	18,3	Water Supply Facility Reni bunar
	18,0	
Oil Terminal Istovarno mjesto naftnih derivata	18,0	Water Supply Facility Reni bunar
	17,9	Water Supply Facility Reni bunar
Water Supply Facility Reni bunar	17,6	
	17,5	Water Supply Facility Reni bunar
Terminal Pristan	17,2	Water Supply Facility Cjevasti bunar
	17,0	Water Supply Facility Facility Cjevasti bunar
	16,85	Water Supply Facility Cjevasti bunar
	16,65	Water Supply Facility Cjevasti bunar
Ostružnica Village Selo Ostružnica	16,6	
	16,5	Water Supply Facility Cjevasti bunar

Right Bank Desna obala	km km	Left Bank Ljeva obala
	16,3	Water Supply Facility Cjevasti bunar
	16,2	
	16,1	Water Supply Facility Cjevasti bunar
	16,0	
	15,9	Water Supply Facility Cjevasti bunar
	15,7	Water Supply Facility Cjevasti bunar
	15,6	Water Supply Facility Cjevasti bunar
$h_0=14,44m$ Ostružnica Railway Bridge	bpl=2 x 75,00m 15,4	hnvpn=8,41m Željeznički most Ostružnica
	15,3	Water Supply Facility Reni bunar
	15,0	
$h_0=16,58m$ Ostružnica Road Bridge	bpl=150m 15,0	hnvpn=10,56m Cestovni most Ostružnica
	14,95	Water Supply Facility Reni bunar

Right Bank Desna obala	km km	Left Bank Lijeva obala
Water Supply Facility Reni bumar	14,7	
	14,6	Water Supply Facility Reni bumar
Water Supply Facility Reni bumar	14,3	Water Supply Facility Reni bumar
	14,0	km
	13,9	Water Supply Facility Reni bumar
Water Supply Facility Reni bumar	13,8	
	13,6	Water Supply Facility Reni bumar
Water Supply Facility Reni bumar	13,25	
	13,2	Water Supply Facility Reni bumar
Water Supply Facility Reni bumar	13,0	km
	12,85	Water Supply Facility Reni bumar
Water Supply Facility Reni bumar	12,8	
Direktorate for Inland Waterways Baza Direkcije za vodne puteve	12,55	
Water Supply Facility Reni bumar	12,5	
	12,4	Water Supply Facility Reni bumar

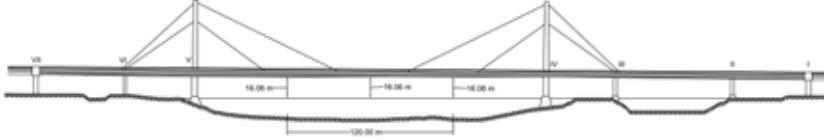
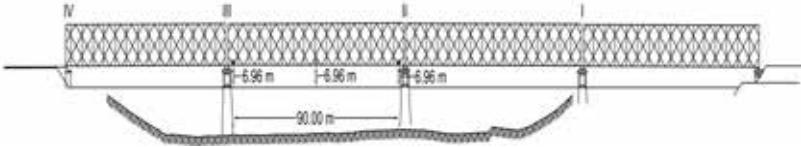
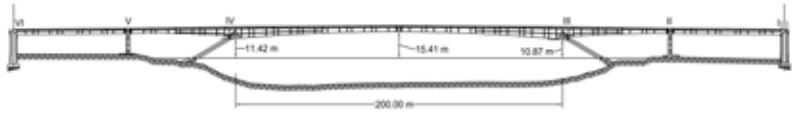
Right Bank Desna obala	km km	Left Bank Ljeva obala
Shipyard Brodogradilište	 12,3	
Water Supply Facility Reni bunar	 12,1	
	12,05	 Water Supply Facility Reni bunar
	12,0	 
Water Supply Facility Reni bunar	 11,95	
Water Supply Facility Reni bunar	 11,7	Water Supply Facility Reni bunar
	11,35	 Water Supply Facility Reni bunar
Water Supply Facility Reni bunar	 11,3	
Makiš Pumping Station Crpna stanica „Makiš“	 11,0	 Sector "Sava Confluence" Sektor "Ušće Save" (rkm 11,0 – rkm 0)
	10,75	 Water Supply Facility Reni bunar
Water Supply Facility Reni bunar	 10,5	
	10,45	 Water Supply Facility Reni bunar
Water Supply Facility Reni bunar	 10,2	
	10,1	 Water Supply Facility Reni bunar

Right Bank Desna obala	km km	Left Bank Lijeva obala
Upstream Part of Velika Ada Ciganlija Island Velika Ada Ciganlija-vrh	10,0	
Water Supply Facility Reni bunar	9,7	
	9,5	Water Supply Facility Reni bunar
Water Supply Facility Reni bunar	9,3	
	9,1	Water Supply Facility Cjevasti bunar
High voltage Duct Visokonaponski vod	9,0	
	9,0	 
	8,9	Water Supply Facility Cjevasti bunar
	8,8	Water Supply Facility Cjevasti bunar
Water Supply Facility Reni bunar	8,65	
	8,55	Water Supply Facility Cjevasti bunar
	8,4	Water Supply Facility Cjevasti bunar
	8,25	Water Supply Facility Cjevasti bunar
	8,0	 

Right Bank Desna obala	km km	Left Bank Ljeva obala
	7,85	Water Supply Facility Cjevasti bunar
Water Supply Facility Reni bunar	7,6	Water Supply Facility Reni bunar
Upstream Part of Ada Medica Island Ada Medica-vrh	7,4	
	7,4	
	7,15	Water Supply Facility Reni bunar
	7,0	
Ada Medica Island Ada Medica	6,8	
	6,7	Water Supply Facility Reni bunar
Velika Ada Ciganlija Island Velika Ada Ciganlija	6,5	
Water Supply Facility Reni bunar	6,4	
Downstream Part of Ada Medica Island Bežanija Area Ada Medica-kraj Područje Bežanija	6,3	
	6,3	
	6,25	Water Supply Facility Reni bunar

Right Bank Desna obala	km km	Left Bank Lijeva obala
	6,0	 
Underwater Duct Podvodni kabal	5,9	Underwater Duct Podvodni kabal
	5,8	 
Underwater Duct Podvodni električni vod	5,3	Water Supply Facility Reni bunar
	5,25	Underwater Duct Podvodni električni vod
	5,0	  
	5,0	Liquid cargo reloading place Pristan za tečne terete Beogradske toplane
Upstream Part of effluent Čukarički rukavac-gornji kraj	4,9	  
	4,55	Water Supply Facility Reni bunar
Oil Terminal (in effluent) Naftni terminal u Čukaričkom rukavcu	4,2	Water Supply Facility Reni bunar
	4,1	Shipyard (in effluent) Brodogradilište i radionica u Bežanijskom rukavcu

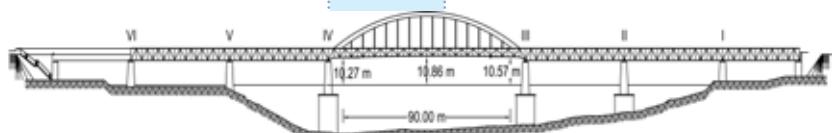
Right Bank Desna obala	km km	Left Bank Ljeva obala
Topčiderska Reka Mouth (in effluent) Ušće Topčiderske Reke u Čukaričkom rukavcu	4,0	
	4,0	Upstream Part of Mala Ada Ciganlija Island Mala Ada Ciganlija-vrh
	3,9	
Downstream Part of Velika Ada Ciganlija Island Downstream Part of Čukarica effluent Velika Ada Ciganlija-kraj Čukarički rukavac-donji kraj	3,9	Cestovni most Beograd-Ada Ciganlija
	3,8	Mala Ada Ciganlija Island Mala Ada Ciganlija
	3,7	Water Supply Facility Reni bunar
	3,6	
	3,2	Water Supply Facility Reni bunar
	3,1	

Right Bank Desna obala	km km	Left Bank Lijeva obala
 	3,0	Downstream Part of Mala Ada Ciganlija Island Entry of Effluent Mala Ada Ciganlija/ kraj-ulaz u Bežanijski rukavac
	bpl=120,00m 3,0	$h_{nvpn}=16,06m$ Željeznički novi most Beograd
	bpl = 90,00m 2,73	$h_0 = 12,62m$ Željeznički stari most Beograd
	$h_0 = 16,52m$ Gazela Road-Tram Bridge	$h_{nvpn} = 6,96m$ Cestovni most-Gazela
	2,5 2,3 2,0 1,7	Water Supply Facility Reni bunar Water Supply Facility Reni bunar Water Supply Facility Reni bunar

Right Bank
Desna obala

km
km

Left Bank
Ljeva obala



Belgrade Road-Tram Bridge

Police Terminal
Pristan riječne policije

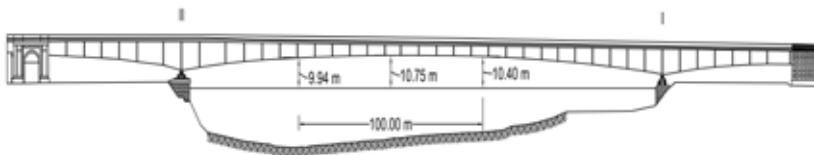


1,43

1,1

$h_{\text{vpl}} = 10,27 \text{ m}$

Cestovno-tramvajski most Beograd



Road Bridge Belgrade
Brankov Bridge

Belgrade Gauge (68,28 mm)
Vodomjer Beograd



bpl = 100m

1,0

$h_{\text{vpl}} = 9,94 \text{ m}$
Cestovni most Beograd
Brankov most



0,9

0,82

Water Supply Facility
Reni bunar



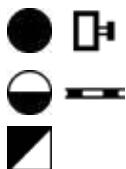
0,8



0,7



Border Crossing
Pasenger Terminal
Port Master Office
Granični prelaz
Putnički pristan
Kapetanija



0,7

Terminal
Savsko pristanište-vertikalni kej

0,5



Water Supply Facility
Reni bunar

0,4



0,2



Belgrade City
Grad Beograd

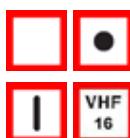


0,0



Sava Mouth
Ušće Save

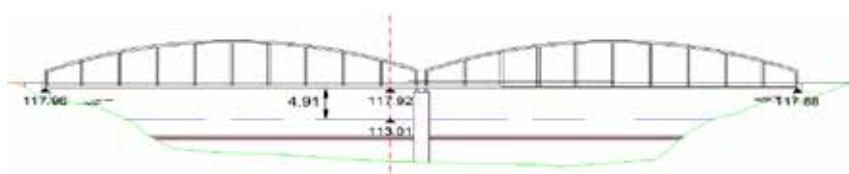
Right Bank of
Danube River
Desna obala
Dunava rkm 1169,9



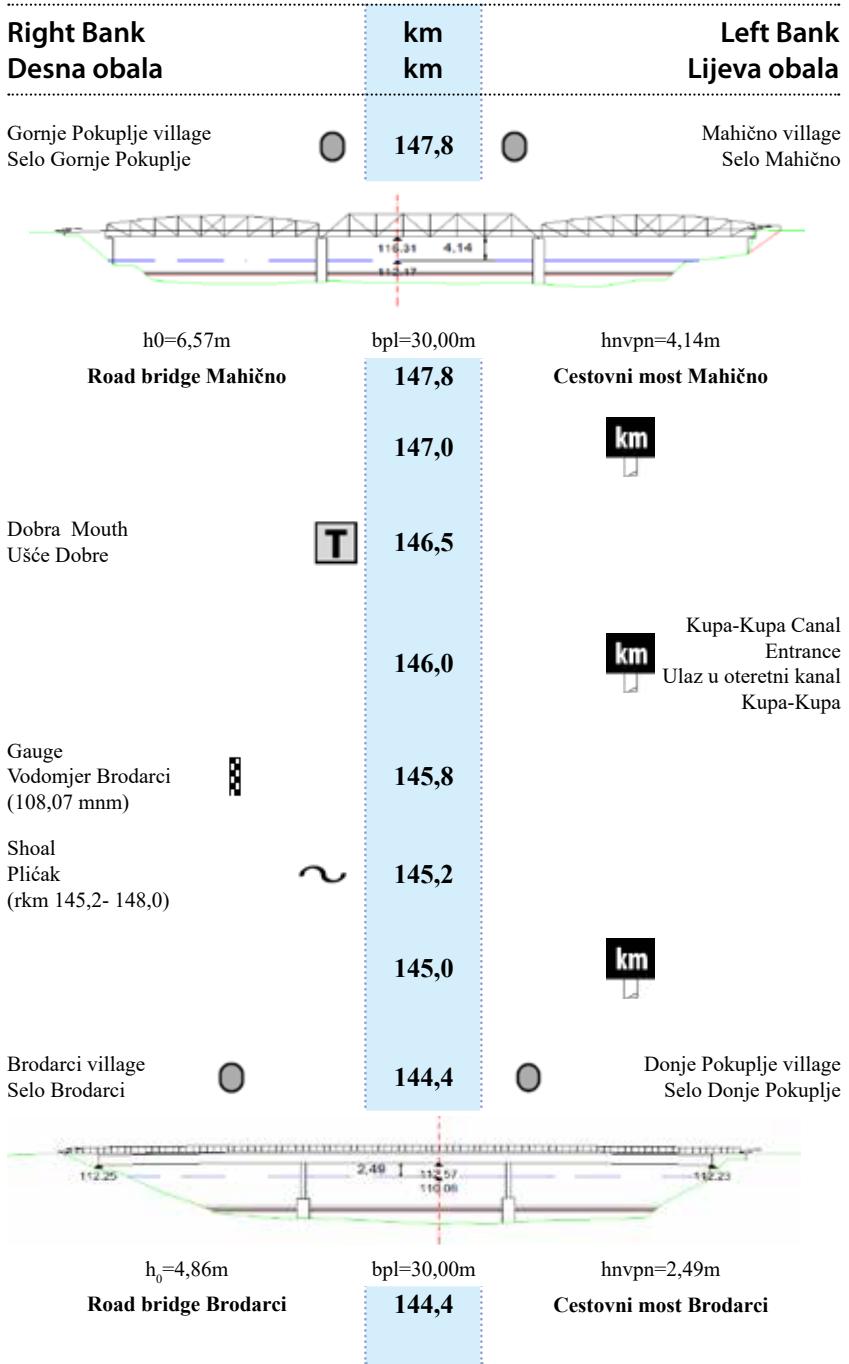
V
KUPA RIVER
RIJEKA KUPA

Right Bank Desna obala	km km	Left Bank Lijeva obala
Brana hidroelektrane Ozalj	162,6	Ozalj hydropowerplant
		Zajačko Selo village Selo Zajačko selo
	162,0	
	161,0	
Trg Island and Shoal Ada i plićak Trg (rkm 160,4-160,0)	~	160,4
Trg village (upstream part) Selo Trg (uzvodni kraj)		160,3
	160,0	
	159,5	
	159,0	
	158,0	
	157,8	
Trg village (downstream part) Selo Trg (nizvodni kraj)		157,1
	157,0	
	156,0	
Polje Ozaljsko village Selo Polje Ozaljsko		155,5

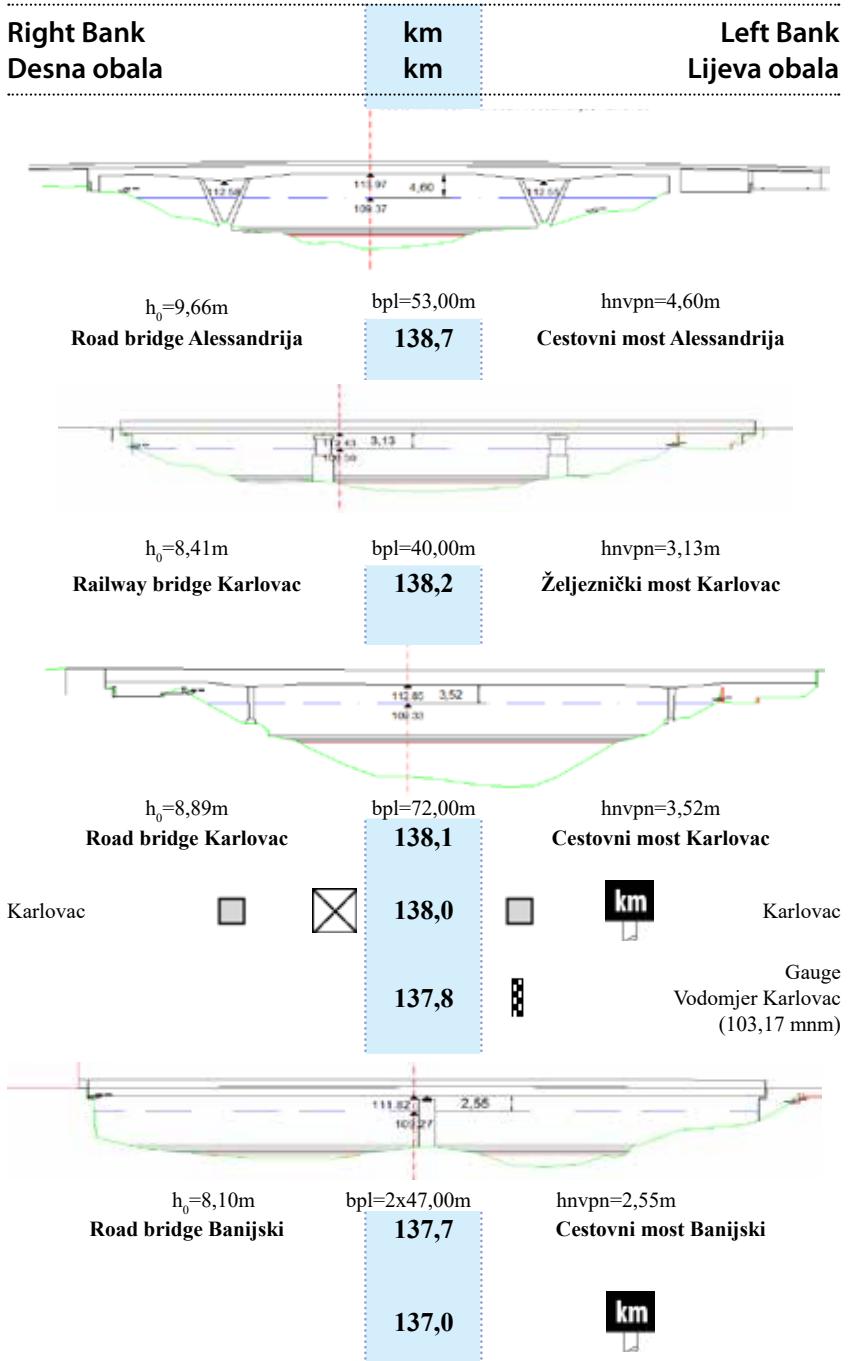
Right Bank Desna obala	km km	Left Bank Ljeva obala
	155,0	km
Trešćerovac village Selo Trešćerovac	154,5	km
	154,0	km
	153,0	km



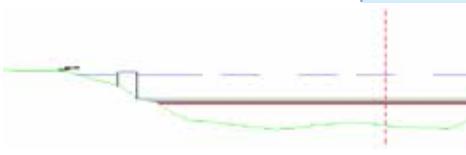
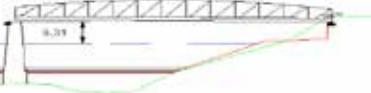
Railway bridge Zorkovac h ₀ =5,56m	Bpl=2x46m	hnvpn=4,91m
Railway bridge Zorkovac	152,2	Željeznički most Zorkovac
Selo Zorkovac na Kupi	152,0	Zorkovac na Kupi village
	151,0	km
	150,0	km
Levkušje village Selo Levkušje	149,5	
	149,0	km
Shoal Plićak (148,0-145,2)	148,0	km



Right Bank Desna obala	km km	Left Bank Ljeva obala
Shoal Pličak Novaki (rkm 143,3-142,4)	144,0	km
Kaštel area Lokalitet Kaštel	143,3	
	143,2	
	143,0	km
		P569 142+064,01 cestovni most Hrnetić
Road bridge Hrnetić	142,1	hnvpn=2,77m Cestovni most Hrnetić
	142,0	km
	141,0	km
		140+001,00 viadukt Drežnik - auto cesta Zagreb-Rijeka
Road bridge „Viadukt Drežnik“	140,9	
	140,0	
Dubovac	139,5	
Karlovac rowing club Veslački klub Karlovac	139,0	km

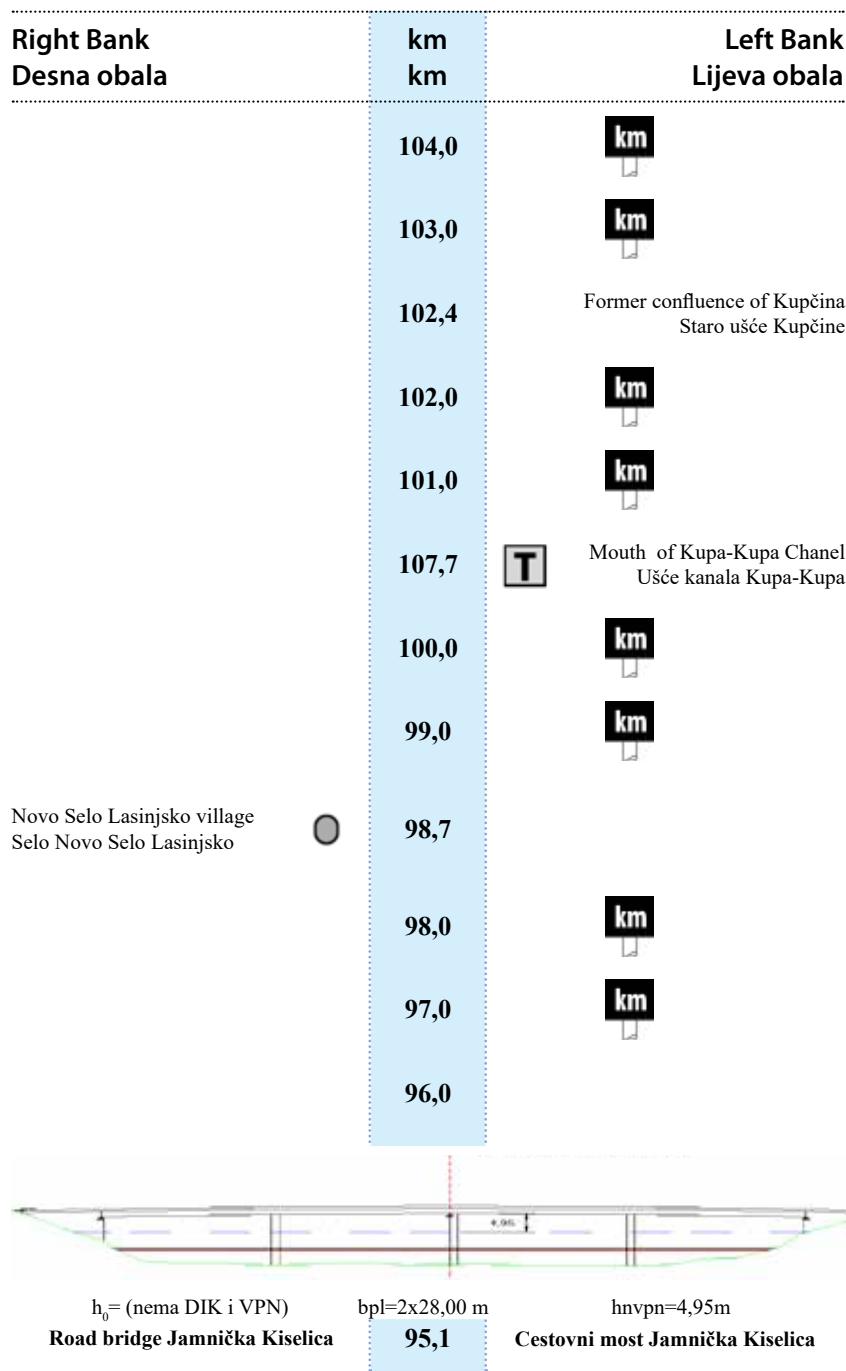


Right Bank Desna obala	km km	Left Bank Ljeva obala
High-voltage duct Visokonaponski vod	 136,0	 High-voltage duct Visokonaponski vod
	 135,0	 Gradac settlement Prigradsko naselje Gradac
	 134,0	 Vodostaja settlement Naselje Vodostaja
Korana Mouth Ušće Korane	 133,2	
	 133,0	 Donje Mekuše village Selo Donje Mekuše
	 132,0	 Husje village Selo Husje
Water treatment plant Uredaj za prečišćavanje	 131,8	
	 131,5	
	 131,0	
	 130,2	
	 130,0	
Ex Ferry berthing place Rampa	 129,6	Ex Ferry berthing place Rampa
Kamensko village Selo Kamensko	 129,4	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	129,0	
High-voltage duct Visokonaponski vod		128,5
	128,0	
	127,6	Kobilić Pokupski village Selo Kobilić Pokupski
	127,0	
	126,0	
Bunker	125,3	Bunker
	h₀ = (nema DIK i VPN) Destroyed railway bridge Brodani Pokupski	bpl=55,0m  125,3
	125,0	
Underwater duct Podvodni kabal		124,7
Brodani village Selo Brodani		124,5
Chanel Mouth Ušće kanala Brdani Sluice Ustava Brodani		124,0
	123,5	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	123,0	
	122,7	Utinja curve Krivina Utinja
	122,0	
	121,0	
	120,0	
Curve Krivina	119,5	Rečica Donja village Selo Rečica Donja
	119,0	
	118,0	
Curve Krivina	117,4	Luka Pokupska village Selo Luka Pokupska
	117,0	
	116,0	
	115,0	
	114,5	Zamršje village Selo Zamršje
	114,0	
	113,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Slunjska Selnica village Selo Slunjska Selnica	112,7	
	112,0	km
Banska Selnica village Selo Banska Selnica	111,6	Blatnica Pokupska village Selo Blatnica Pokupska
	111,6	Cestovni most Blatnica Pokupska
	111,0	km
	110,4	Koritinja village Selo Koritinja
	110,0	km
	109,0	km
	108,0	km
	107,0	Šišljavić village Selo Šišljavić
	106,0	km
	105,0	km
Banski Kovačevac village Selo Banski Kovačevac	104,5	

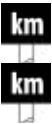


Right Bank Desna obala	km	Left Bank Lijeva obala
	95,0	Jamnička Kiselica village Selo Jamnička Kiselica
	94,2	Gradec Pokupski village Selo Gradec Pokupski
	94,0	
Shoal Plićak (rkm 93,4-90,0)	93,4	
	93,0	
Lasinja village Selo Lasinja	92,0	
Desno Sredičko village Selo Desno Sredičko	91,0	Lijevo Sredičko village Selo Lijevo Sredičko
Island Ada Sredičko (rkm 90,6-90,0)	90,6	
Shoal Plićak (rkm 90,0-93,4)	90,0	
	89,0	
	88,0	
Desni Štefanki village Selo Desni Štefanki	87,0	Ljevi Štefanki village Ljevi Štefanki
	86,0	
	85,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	84,0	
Shoal (upstream) Plićak Aguštanovec (gornji)		83,2
	83,0	
	82,0	
Shoal (downstream) Plićak Aguštanovec (donji)		81,9
	81,6	Aguštanovec village Selo Aguštanovec
Shoal Plićak Degoj (rkm 81,1-78,8)		81,1
	81,0	
	80,0	Erected sign Postavljen znak
	79,2	Lijevi Degoj village Selo Lijevi Degoj
	79,0	
Shoal Plićak Degoj (rkm 78,8-81,1)		78,8
	78,0	
	77,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	76,3	Pokupsko village Selo Pokupsko Recreation center Rekreacijski centar
High-voltage duct Visokonaponski vod	76,0	
	75,7	High-voltage duct Visokonaponski vod
 $h_0 = (\text{nema DIK i VPN})$ Road bridge Pokupsko	bpl=36,00 m 75,2	 Cestovni most Pokupsko
	75,0	Erected sign Postavljen znak
	74,4	Pokupski Gladovec village Selo Pokupski Gladovec
	74,0	
	73,0	
	72,0	
	71,0	
	70,0	Erected sign Postavljen znak
	69,0	
	68,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	67,0	
	66,9	 
	66,0	
High-voltage duct Visokonaponski vod		Šišinec village Selo Šišinec Gauge Vodomjer (94,81mm)
Erected sign Postavljen znak Stankovac village Selo Stankovac	 	High-voltage duct Visokonaponski vod
	65,5	
	65,0	
	64,0	
	63,0	
	62,0	
Glina Mouth Ušće Gline		61,7
High-voltage duct Visokonaponski vod		High-voltage duct Visokonaponski vod
	61,0	
	60,3	
	60,0	
	59,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala	
	58,0		
	57,0		
	56,0	Pokupsko Vratečko village Selo Pokupsko Vratečko	
High-voltage duct Visokonaponski vod		55,7	High-voltage duct Visokonaponski vod
Erected sign Postavljen znak		55,0	
	54,0		
Island Ada		53,9	
	53,0		
	52,0		
	51,5	Curve Krivina Farkašić	
Novi Farkašić village Selo Novi Farkašić		51,1	
	51,0		
Island/Ada Shoal/Pličak		50,5	
Curve Krivina Farkašić		50,0	Erected sign Postavljen znak

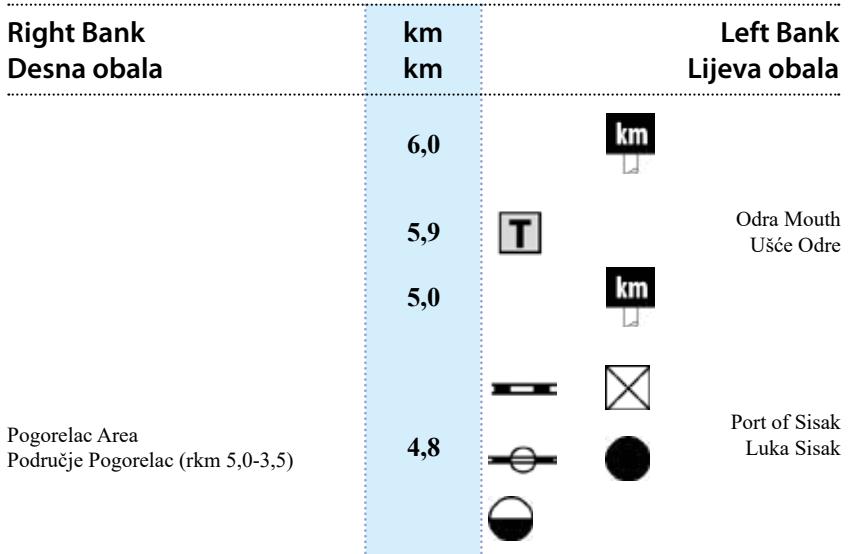
Right Bank Desna obala	km km	Left Bank Ljeva obala
	49,5	Stari Farkašić village Selo Stari Farkašić
	49,0	
	48,8	Gauge Vodomjer Farkašić (93,82 mm)
	48,0	
	47,7	Stari Brod village Selo Stari Brod
	47,0	
	46,5	Stari Brod cottage settlement Vikend naselje Stari Brod
	46,0	
	45,0	Erected sign Postavljen znak
	44,0	
Nebojan village Selo Nebojan	43,5	
Shoal Pličak Nebojan (rkm 43,3-42,7)	43,3	
	43,0	
	42,2	Letovanić village Selo Letovanić

Right Bank Desna obala	km km	Left Bank Lijeva obala
	42,0	
Shoal Plićak	41,4	
	41,0	
Erected sign Postavljen znak	40,0	
	39,0	
Curve Krivina Žažinski Bok	38,8	
	38,5	 Žažina village Selo Žažina
	38,0	
	37,0	
	36,0	
Curve Krivina Gorički Bok	35,7	 Mala Gorica village Selo Mala Gorica
	35,0	
	34,0	
	33,0	
Shoal Plićak Zdenci (rkm 32,7-32,0)	32,7	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	32,0	km
Nebojan-Dumače village Selo Nebojan-Dumače	31,5	
	31,0	km
Erected sign Postavljen znak	30,0	
	29,3	Whirlpool Mokrički liman
	29,0	km
	28,0	km
	27,0	km
Novo Selište village Selo Novo Selište	26,5	
	26,0	km
	25,0	Erected sign Postavljen znak Brest Pokupski village Selo Brest Pokupski
<p>Road bridge Petrinja</p> <p>$h_0 = 10,65\text{mc}$</p> <p>$b_{pl} = 2 \times 61,50 \text{ m}$</p> <p>$h_{nvpn} = 3,28\text{m}$</p> <p>24,6</p> <p>Cestovni most Petrinja</p>		

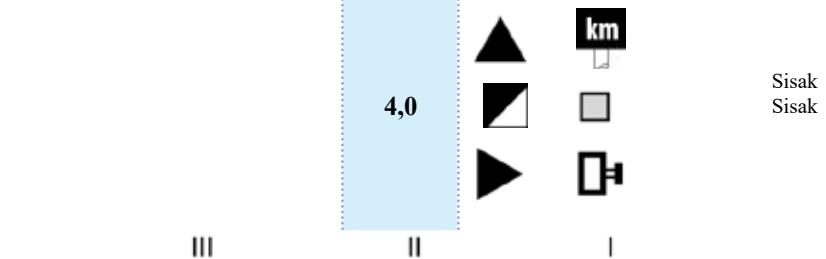
Right Bank Desna obala	km km	Left Bank Lijeva obala
	24,0	
Petrinja beach Kupalište Petrinja Petrnjica mouth Ušće Petrinjice Petrinja	23,8	
	23,7	
	23,0	
	22,0	
	21,0	
	20,5	 Vurot village Selo Vurot
	20,0	 Erected sign Postavljen znak
High-voltage duct Visokonaponski vod	19,6	 High-voltage duct Visokonaponski vod
	19,0	
Shoal Pličak Drenčina (rkm 18,0 - 16,3)	18,0	
	17,0	 Stara Drenčina village Selo Stara Drenčina
	16,0	
Erected sign Postavljen znak	15,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	14,0	
	13,0	
Shoal Pličak Mošćenica (rkm 12,8 - 11,1)	 12,8	
High-voltage duct Visokonaponski vod	 12,2	 High-voltage duct Visokonaponski vod
Mošćenica village Selo Mošćenica	 12,0	
High-voltage duct Visokonaponski vod	 11,8	 High-voltage duct Visokonaponski vod
Shoal Pličak Mošćenica (rkm 11,1-12,8)	 11,1	
Water intake Vodozahvat	11,0	
High-voltage duct Visokonaponski vod	 10,1	 High-voltage duct Visokonaponski vod
Erected sign Postavljen znak	 10,0	
	9,0	
Zibel Beach Kupalište Zibel	8,1	
	8,0	
	7,0	  Staro Pračno village Selo Staro Pracno



$h_0=15,51\text{m}$
New road bridge Sisak

bpl=34,25m
4,6 hnvpn=8,60m
Cestovni novi most Sisak



$h_0=5,48 - 13,98\text{m}$
Old road Bridge Sisak

bpl=37,00m
3,5 hnvpn=7,02m
Stari cestovni most Sisak

Right Bank Desna obala	km km	Left Bank Ljeva obala
Sisak Hospital Bolnica Sisak	km 	3,0
Railway bridge Sisak	+ 	2,7
<p>— 7.32 m —</p> <p>21.50 m</p> <p>$h_0=14,11\text{m}$</p> <p>Railway bridge Sisak</p>		
	km 	2,0
	km 	1,5
Oill refinery Rafinerija nafte	km 	1,0
	km 	0,5

VI

DISTANCE BETWEEN LARGE CITIES

PREGLED UDALJENOSTI VEĆIH GRADOVA

