



INTERNATIONAL SAVA RIVER BASIN COMMISSION

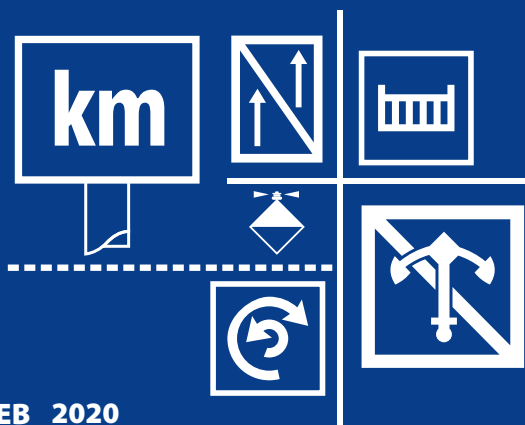
**MEĐUNARODNA KOMISIJA ZA SLIV RIJEKE SAVE
INTERNATIONAL SAVA RIVER BASIN COMMISSION**

DALJINAR

RIJEKE SAVE I NJENIH PLOVNIH PRITOKA

INDICATOR

OF RIVER KILOMETRES FOR THE SAVA RIVER AND ITS NAVIGABLE TRIBUTARIES



ZAGREB 2020

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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 plovnog 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 plovnim 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 obavezujući 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 plovnog puta i uspostava Riječnih informacijskih servisa (RIS).

„Daljinar 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 plovnog 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 riječnim obalama, značajni sa stajališta orijentacije, planiranja i same plovidbe. Pored toga, posebna pažnja se posvećuje dionicama plovnog 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 plovnog puta prepoznali ovu publikaciju kao upotrebljivu i korisnu u njihovoj svakodnevnoj praksi.

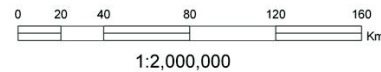
Zagreb, februar 2020.

Dragan Zeljko,
sekretar Savske komisije

Sava River Basin overview map



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)



Coordinate system: ETRS 1989
 Projection: Lambert Azimuthal Equal Area

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



Legend

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



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 SIYMBOLS
- 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 vodomeru. Svako naredno izdanje će, nakon razdoblja praktične primjene i dobijenih povratnih informacija, zasigurno biti potpunije i sadržajnije.

Po prvi put se u daljinar 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 poglavlja 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 obilježnosti 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

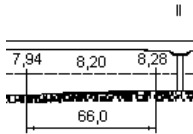
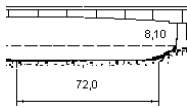
	Post; Telephone Pošta; Telefon
	Medical corps Sanitetska služba
	Border crossing Granični prijelaz
	Customs Carina
	Port Master Kapetanija
	Water construction admistration Uprava za vodogradnju
	Port authority Lučka uprava
	Navigation safety inspection Inspekcija sigurnosti plovidbe
	Winterport Zimovnik
	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 Pretovarno 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
	Ulazni 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 svijetlog 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 međusobnog mimoilaženja 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
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 stranom plovnog puta
	B.3.b	Keep to the side of the fairway on your starboard side Obaveza plovidbe desnom stranom 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
	B.9.b	Ne ulaziti na glavni plovni put niti ga prelaziti ukoliko plovila na njemu zbog toga moraju mijenjati svoj kurs i brzinu
	B.11.a	Obligation to enter into a radiotelephone link Obaveza uspostave radiotelefonske veze
	B.11.b	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



C.2a

Headroom limited
Ograničena visina prolaza



C.2b



C.3a

Width of passage or fairway limited
Ograničena širina plovnog puta ili prolaza



C.3b



C.4

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

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



C.5











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 strelica
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
	E.11a	End of a prohibition or obligation applying to trafic 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
- 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
- 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

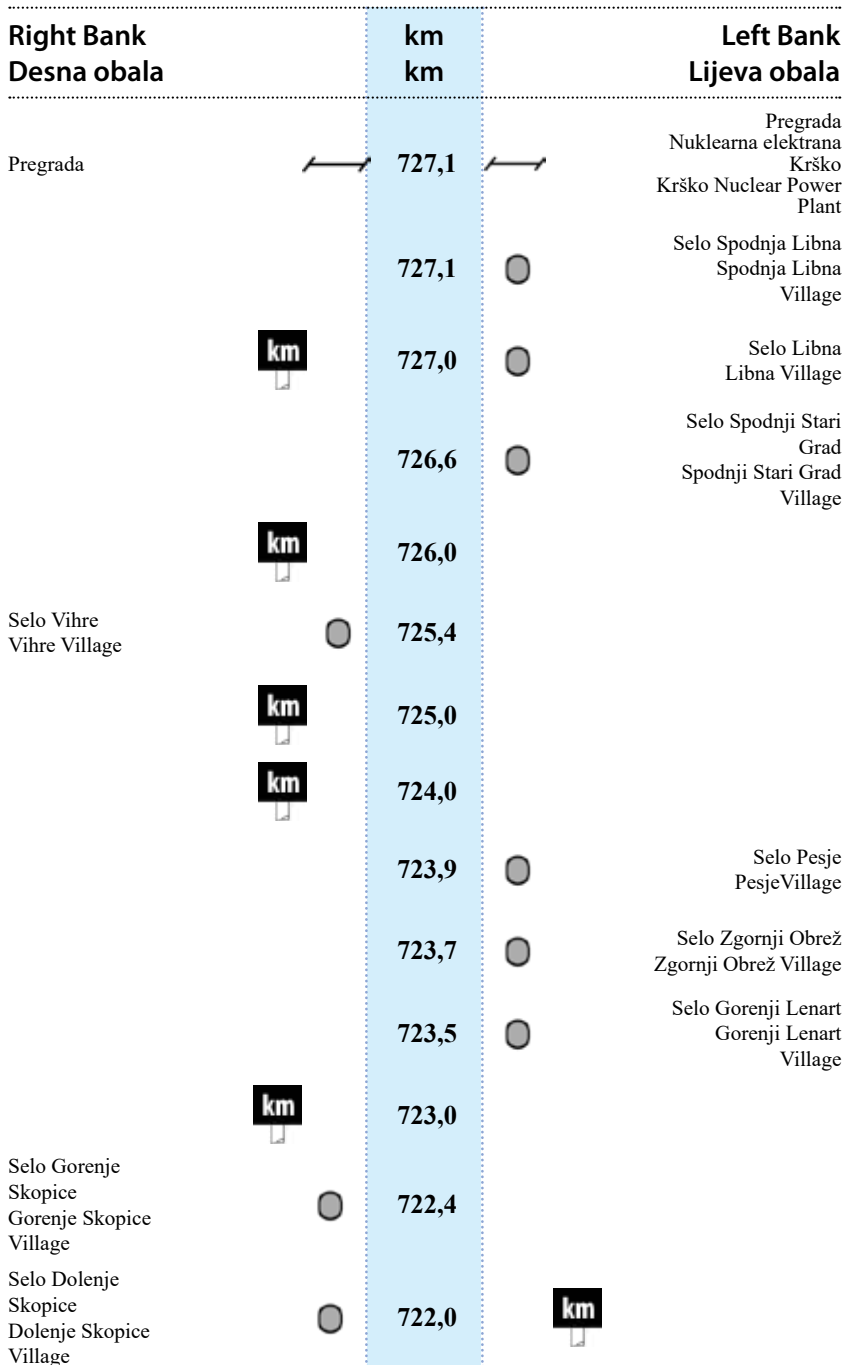
Right-hand side
Desna strana

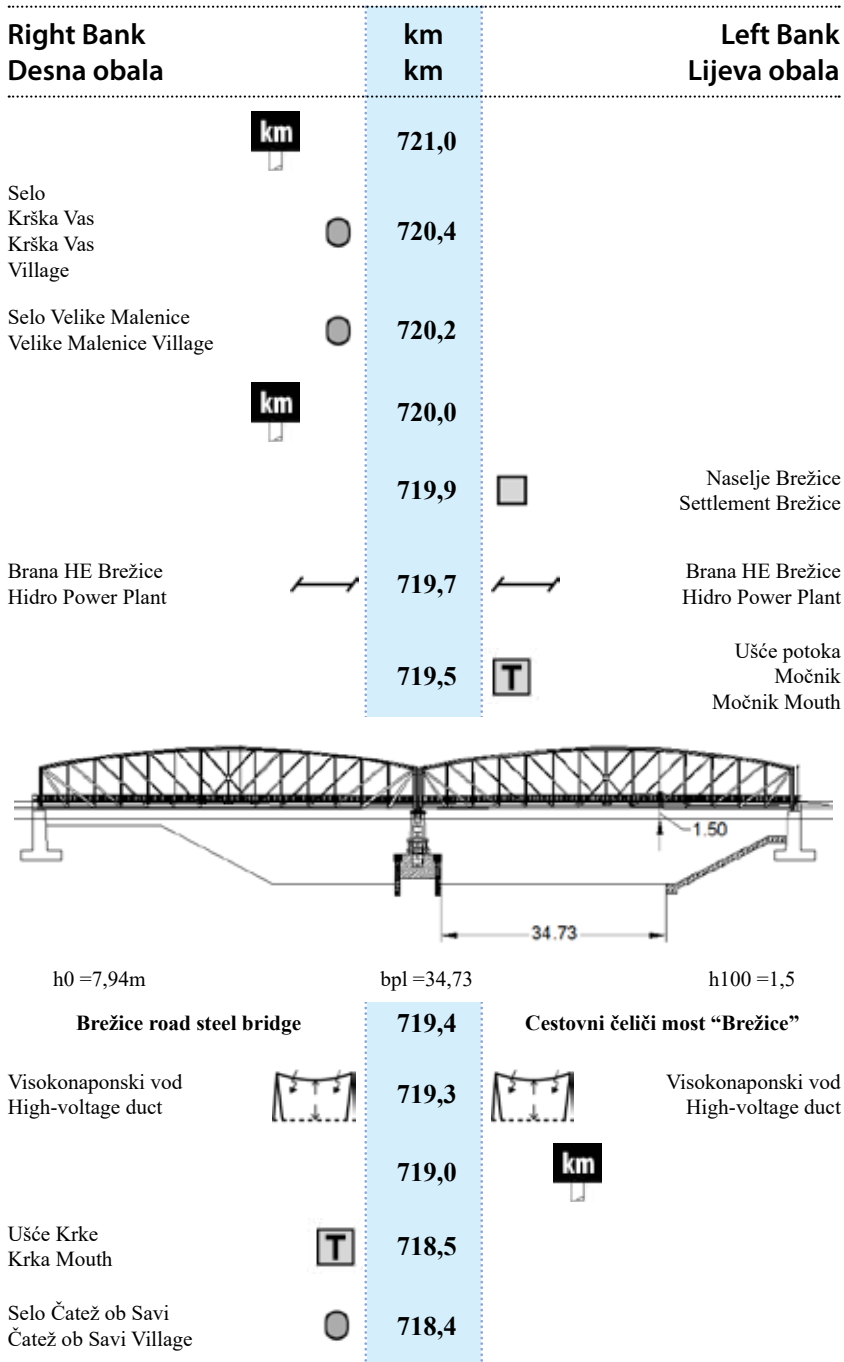


5.F

Left-hand side
Lijeva strana

IV
SAVA RIVER
RIJEKA SAVA

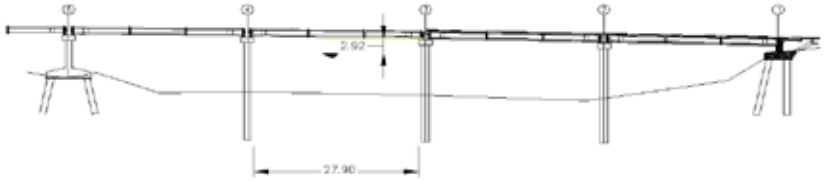




Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



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

$b_{pl} = 34,73$

$h_{100} = 1,5$

Čatež road concrete bridge

718,4

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 - Plićak
Overfalls - Shoal



717,2



Brzaci - Plićak
Overfalls - Shoal



717,0

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



716,4



Selo Bukošek
Bukošek Village

716,9



Selo Mostec
Mostec Village
Skelski prelaz
Ferry

716,0



715,8



























Selo Gabrje pri Dobovi
Gabrje pri Dobovi Village

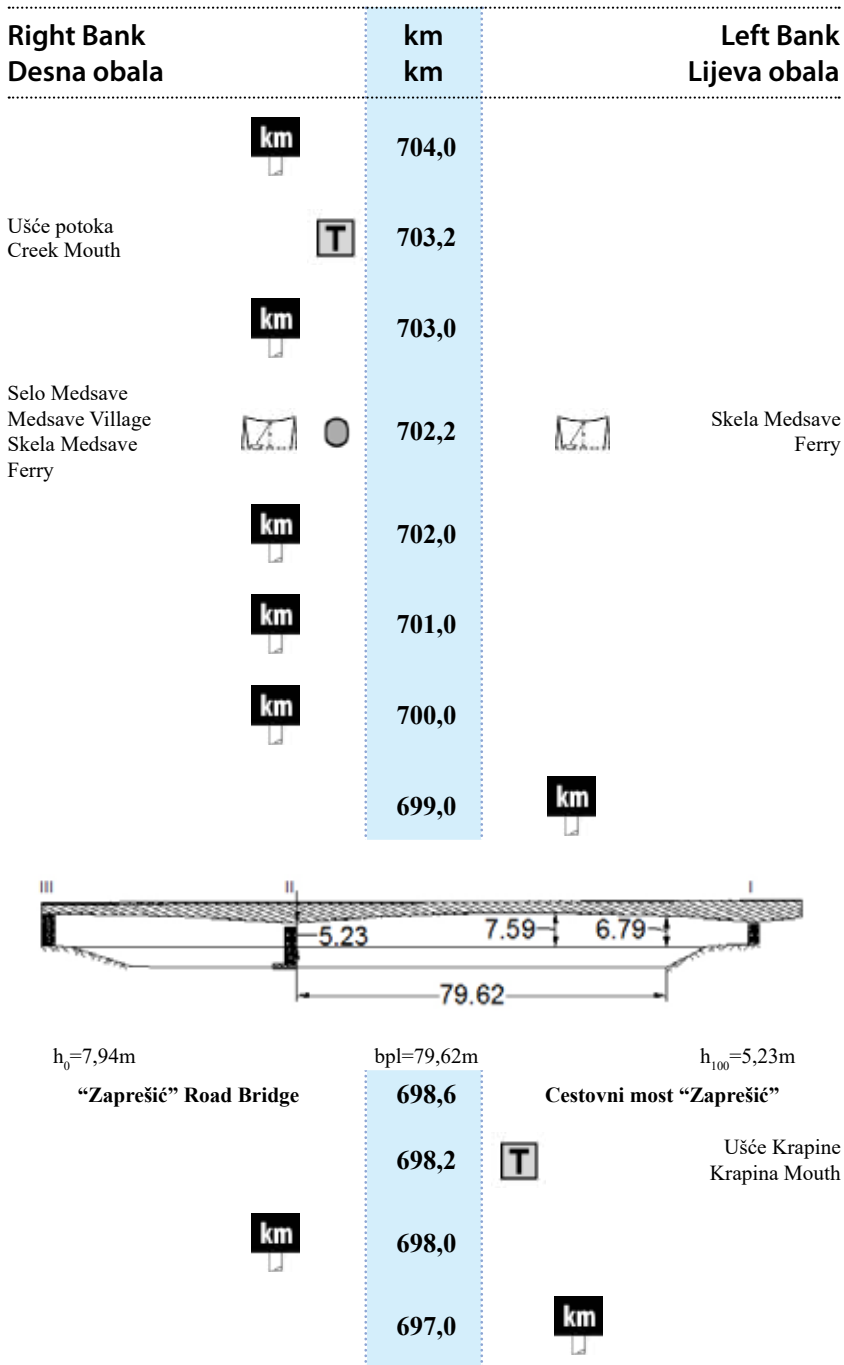
715,3



Selo Dobova
Dobova Village

Right Bank Desna obala	km km	Left Bank Lijeva obala
	715,0	
Selo Prilipe Prilipe Village	714,5	
	714,0	
	713,9	 Ušće Gabrnice Gabrnica Mouth
Ušće Orehovca Orehovac Mouth	713,5	
Selo Podgračeno Podgračeno Village	713,2	
	713,0	
	712,9	 Ušće Gabrnice Gabrnica Mouth
Visokonaponski vod High-voltage duct	712,8	 Visokonaponski vod High-voltage duct
	712,7	 Selo Loče Loče Village
Selo Gaj Gaj Village	712,5	
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

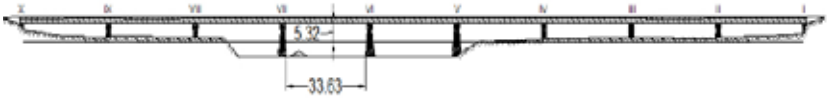
Right Bank Desna obala		km km		Left Bank Lijeva obala
		711,0		
		710,5		Ušće Sutle Sutla Mouth
Selo Rajec Rajec Village Ušće Dolinskog potoka Dolinski potok Mouth	 	710,2		
Selo Nova Vas pri Mokricah Nova Vas pri Mokricah Village		710,1		
		710,0		
Selo Jesenice na Dolenjskem Jesenice na Dolenjskem 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
Lijeva obala



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

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

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

“Podsused” Road Bridge

Cestovni most “Podsused”

696,6

km

696,0

km

695,0

km

694,6

Jezero Rakitje
Rakitje lake

694,0

km



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

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

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

“Jankomir” Road Bridge

Cestovni most “Jankomir”

693,6

km

693,0

km

692,0

km

691,0

km

690,0

km

689,0

km

688,0

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

Right Bank Desna obala	km km		Left Bank Lijeva obala
	687,0	km	
	686,2		Sportsko-rekreaconi centar "Jarun" Jarun Sports and Recreation Center
	686,0	km	
	685,2	T	Ušće kanala Channae Mouth
	685,0	km	
$h_0=9,02\text{m}$ "Jadranski" Road Bridge	bpl=55,83m 684,8		$h_{100}=5,00\text{m}$ Cestovni "Jadranski most"
$h_0=7,18\text{m}$ "Savski" Pedestrian Bridge	bpl=51,37m 684,6		$h_{100}=3,15\text{m}$ Pješački "Savski most"
$h_0=11,86\text{m}$ "Sava-Zeleni" Railway Bridge	bpl=78,25m 684,4		$h_{100}=7,79\text{m}$ Željeznički most "Sava-Zeleni"
	684,0	km	
	683,0	km	

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



$h_0=7,78\text{m}$
"Sloboda" Road Bridge

$bpl=55,77\text{m}$
682,8

$h_{100}=4,12\text{m}$
Cestovni "Most Sloboda"

Grad Zagreb



682,8



Zagreb City

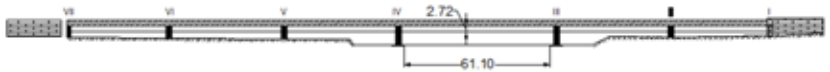
Rekreacioni Centar "Bundek"
Bundek Recreation Center

682,0

km

681,0

km



$h_0=8,37\text{m}$
"Most Mladosti" Road Bridge

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

$h_{100}=5,93\text{m}$
Cestovni "Most Mladosti"

680,7

680,0

km

679,5

679,0

km

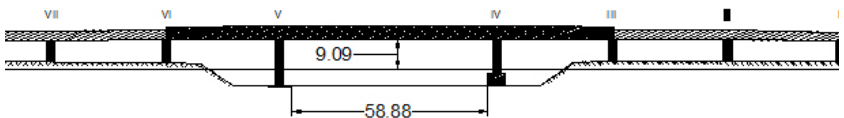
678,0

km

677,0

km

Prag "Toplana"
"Heating plant"
Weir



$h_0=9,41\text{m}$
"Mičevac" Railway Bridge

$bpl=58,88\text{m}$
676,3

$h_{100}=9,09\text{m}$
Željeznički most "Mičevac"

Right Bank Desna obala	km km	Left Bank Lijeva obala
---------------------------	----------	---------------------------

676,0

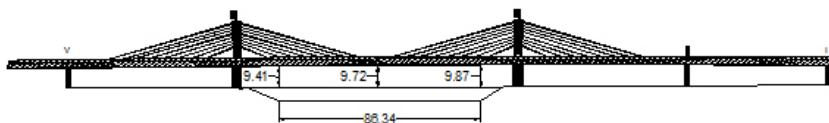
km

675,0

km

674,0

km



$h_0=10,25\text{m}$
“Domovinski” Road Bridge

bpl=86,34m
673,7

$h_{100}=9,41\text{m}$
Cestovni most “Domovinski most”

673,0

km

672,0

km

671,0

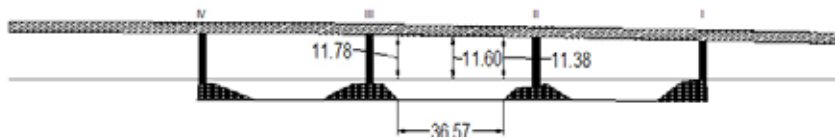
km

670,0

km

669,0

km



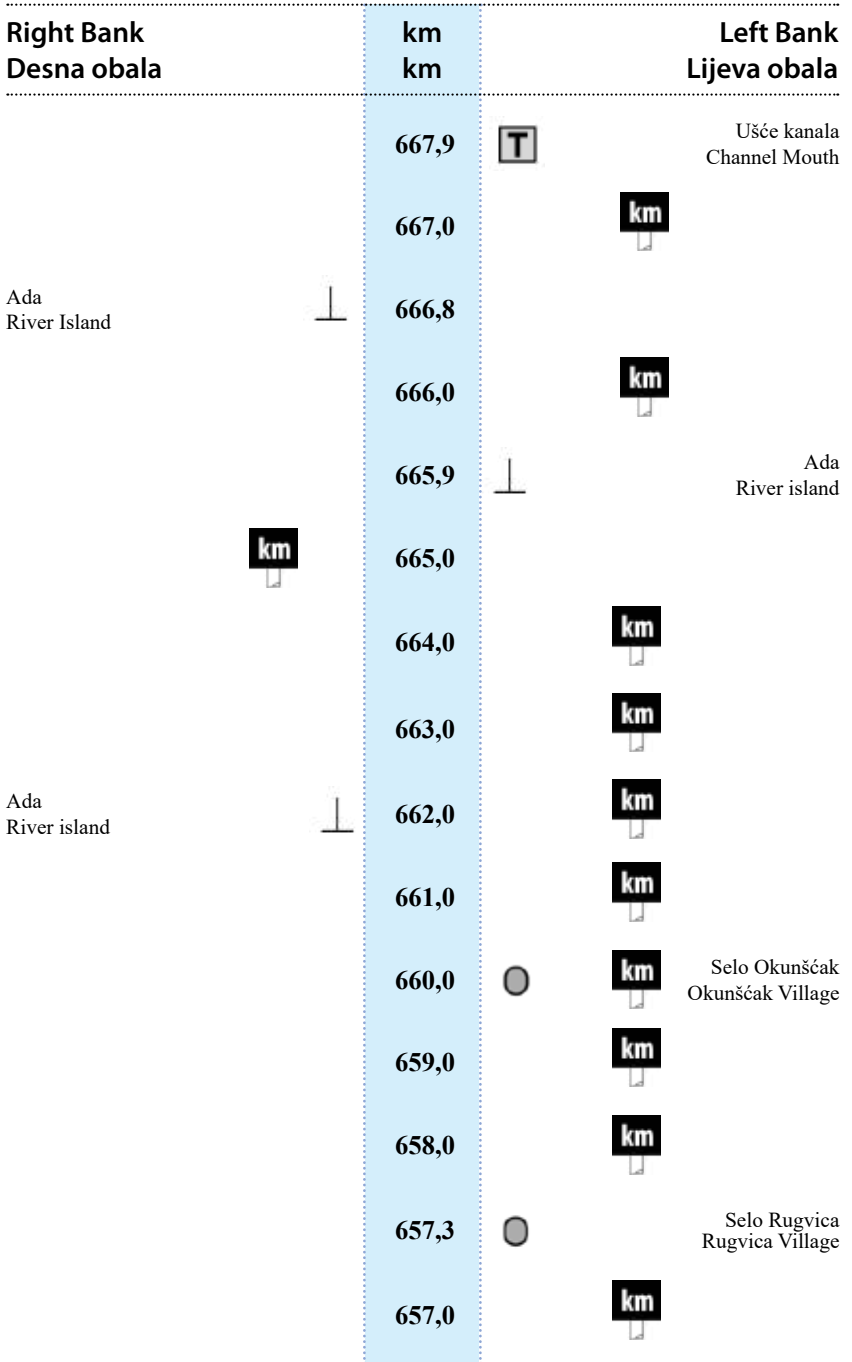
$h_0=13,11\text{m}$
“Ivanja Reka” Road Bridge

bpl=36,57m
668,8

















$h_{100}=11,38\text{m}$
Cestovni most “Ivanja Reka”

668,0

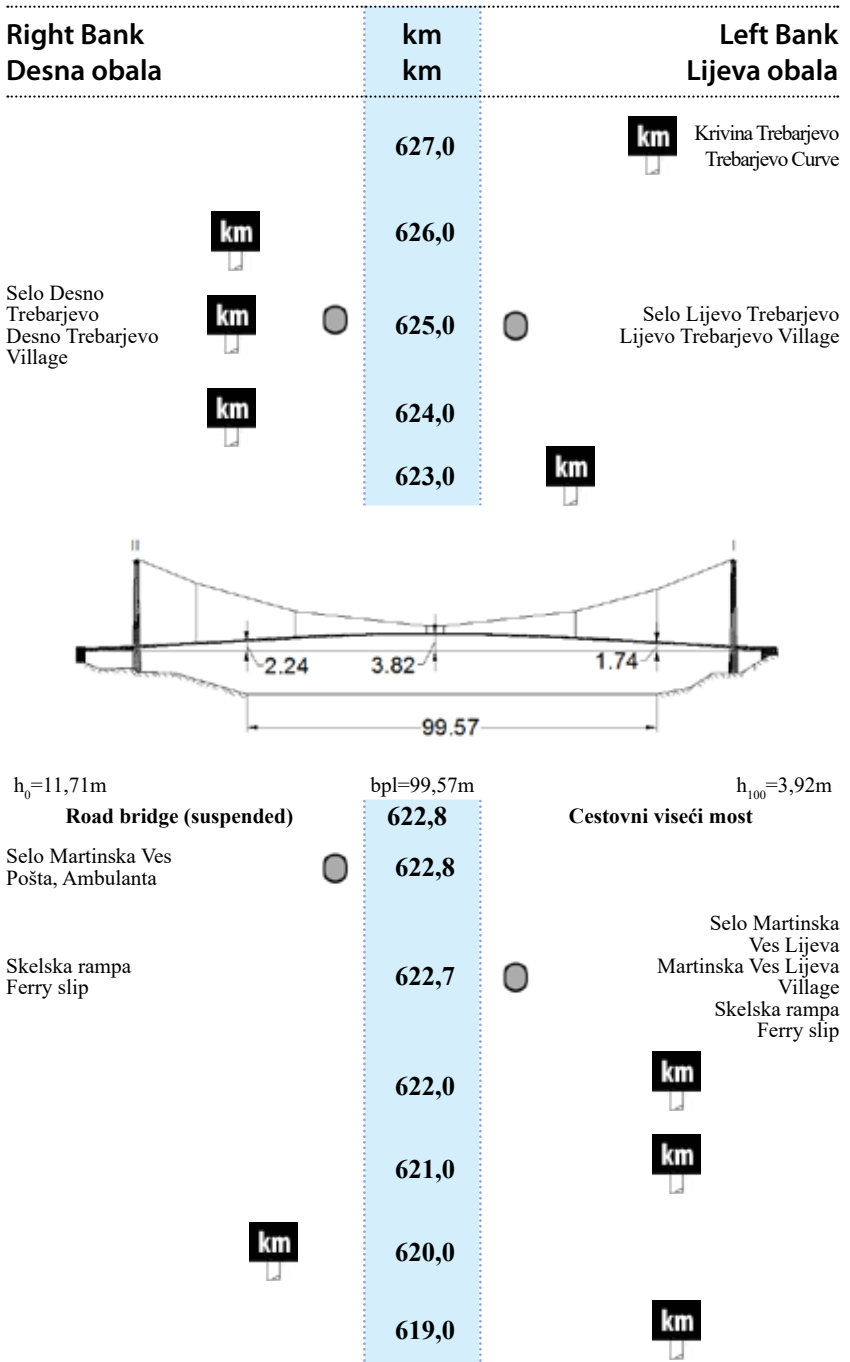
km











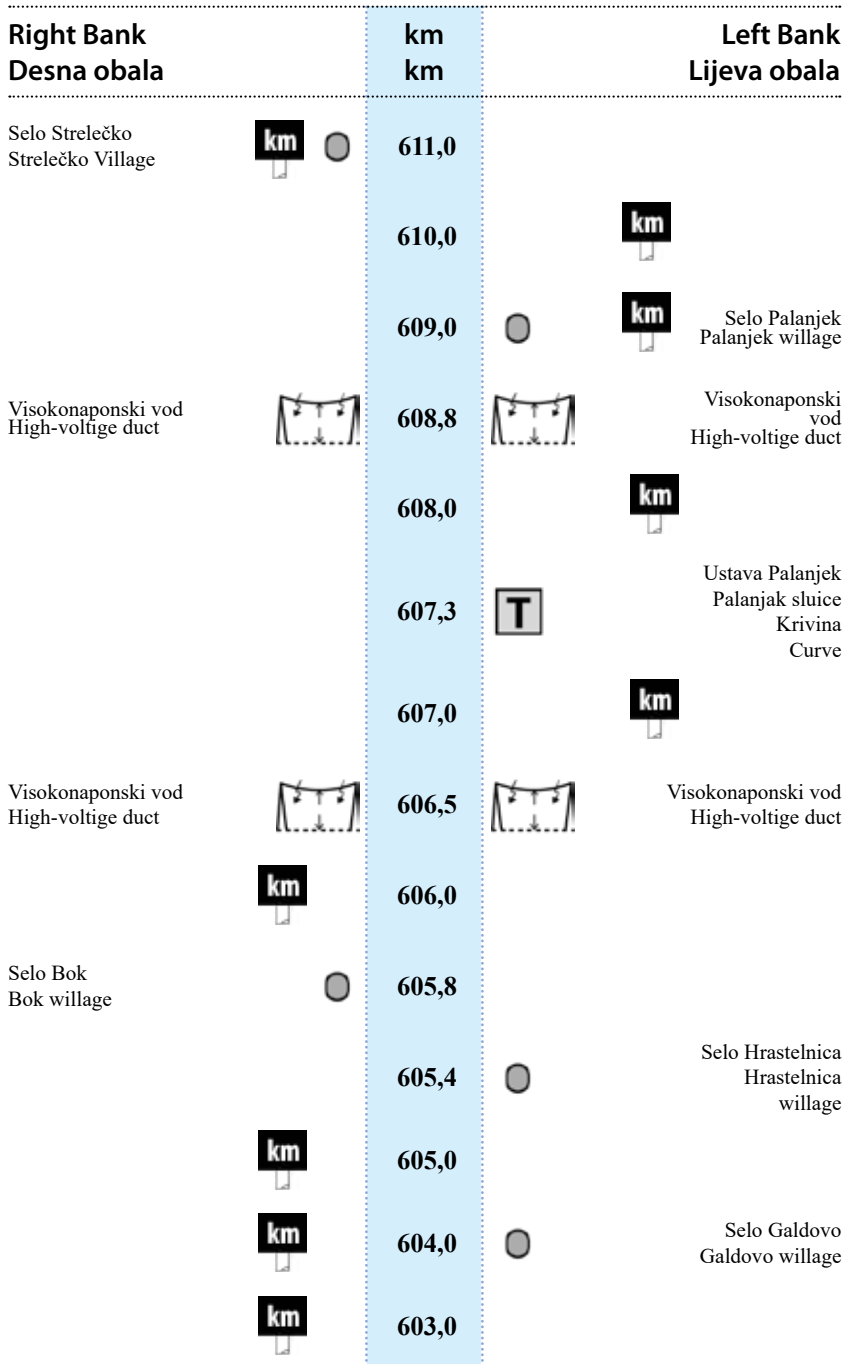












Right Bank Desna obala		km km		Left Bank Lijeva obala
Selo Vrbovo Posavsko Vrbovo Posavsko Village		648,0		
Visokonaponski vod High-voltage duct		647,1		Visokonaponski vod High-voltage duct
		647,0		
		646,4		Pregrada Closure Bund Prokop-Rukavac Oborovo Armlet (rkm 646,4-646,9)
		646,0		
		645,0		
	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

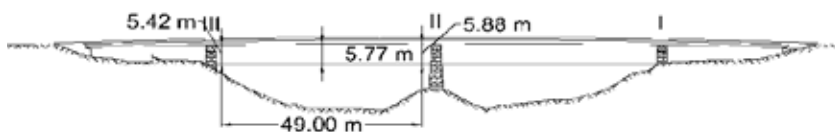




Right Bank Desna obala	km km		Left Bank Lijeva obala
	618,1		Selo Mahovo Mahovo Village
	618,0		
	617,5		Krivina Mahovo Mahovo curve Ustava Sluice
	617,0		
Selo Ljubljana Ljubljana Village	616,7		
	615,5		Selo Setuš Setuš willage
	615,0		
Selo Žirčica Žirčica Village	614,0		
	613,0		
Visokonaponski vod High-voltige duct	612,4		Visokonaponski vod High-voltige duct
Selo Tišina Kaptolska Tišina Kaptolska Village	612,2		Selo Tišina Erdetska Tišina Erdetska Village Skela 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
Hrastelnička luka Hrastelnica area	602,4	Hrastelnička luka 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
















$bpl=49,00\text{m}$

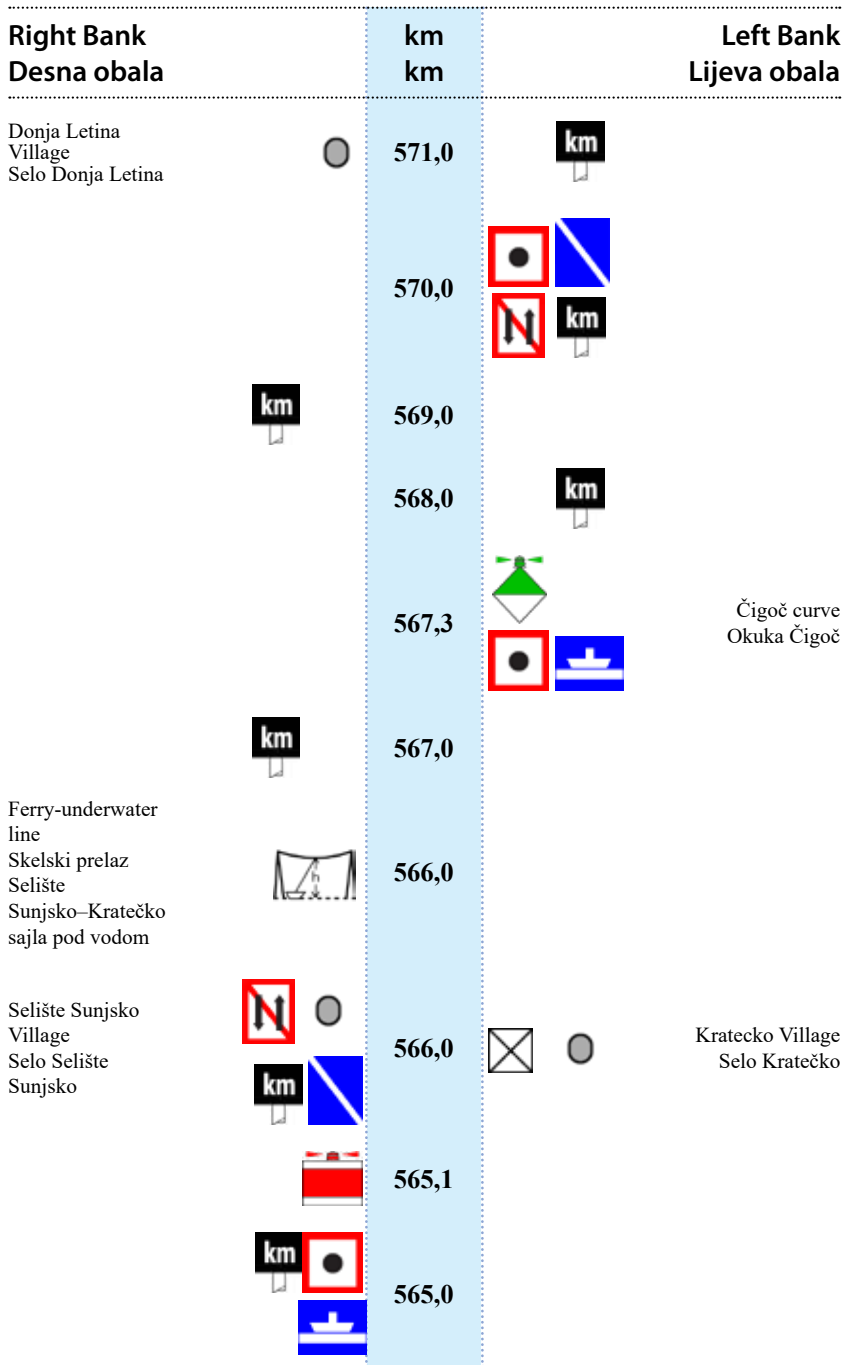
593,8

$h_{nvpn}=5,42\text{ m}$




















Cestovni most Galdovo

Right Bank Desna obala	km km		Left Bank Lijeva 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

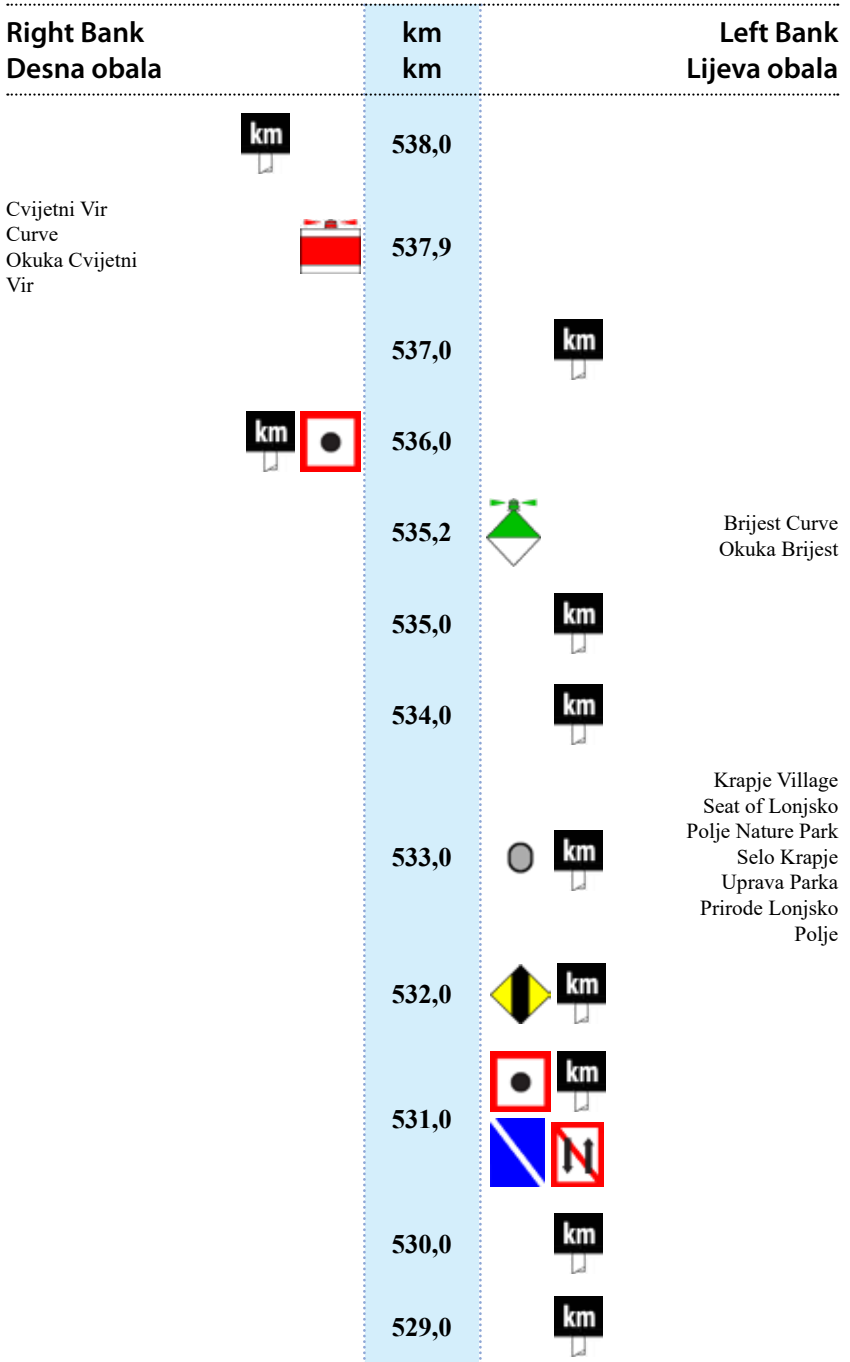
Right Bank Desna obala	km km	Left Bank Lijeva obala
Gradusa Mouth Ušće Graduse	577,0	
Posavska Gradusa Village Selo Posavska Gradusa	576,5	
	576,2	
Ferry-underwater line Skelski prelaz Gradusa Posavska- Lukavec-sajla pod vodom	576,1	 Underwater duct Podvodni vod – vodovod
	576,0	 
	575,0	 
		  
Underwater duct Podvodni vod	574,8	 Underwater duct Podvodni vod
	574,5	
	574,0	
Gornja Letina Village Selo Gornja Letina	573,3	
	573,0	
	572,0	 Gauge Gušće Village Vodomjer (89,04 m) Selo Gušće

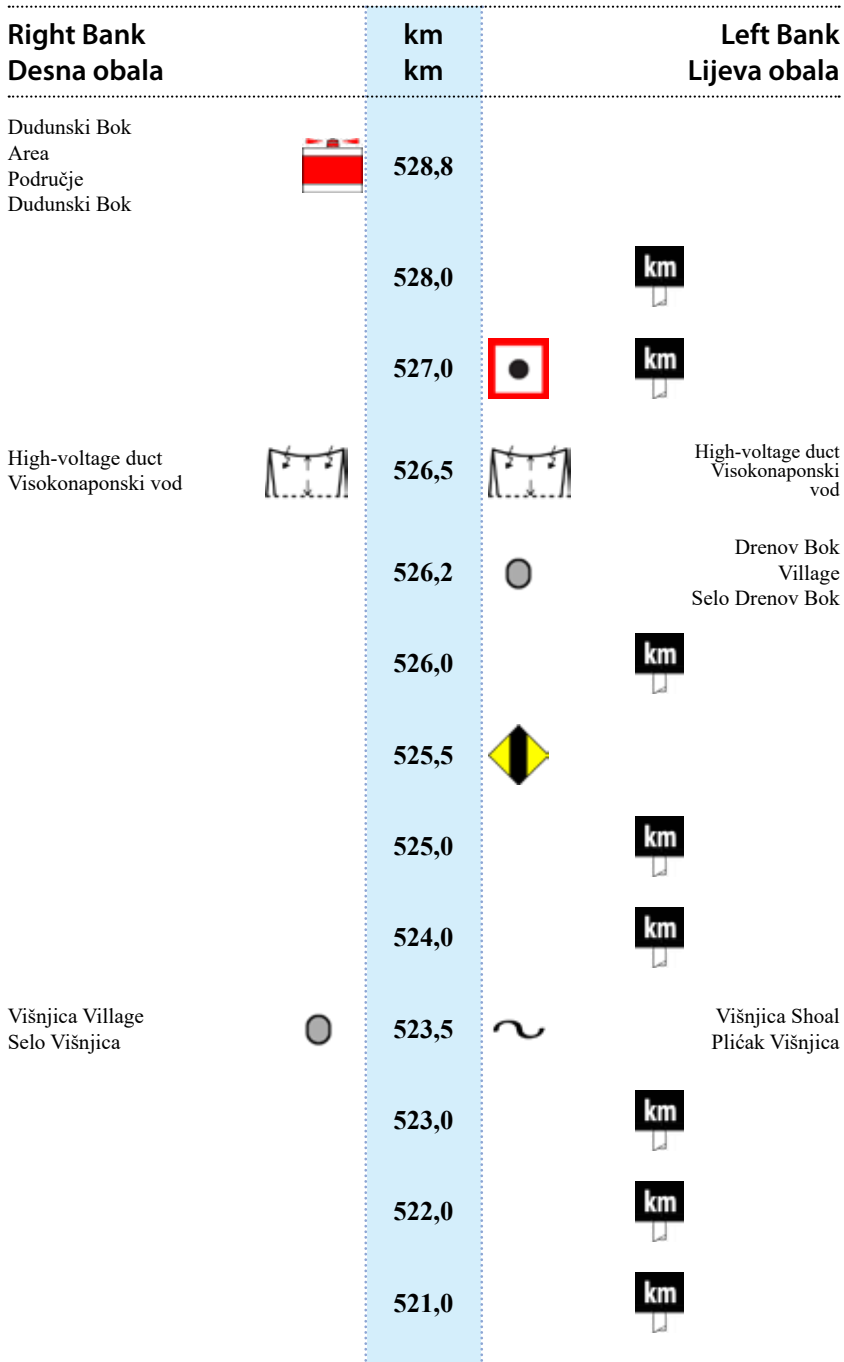


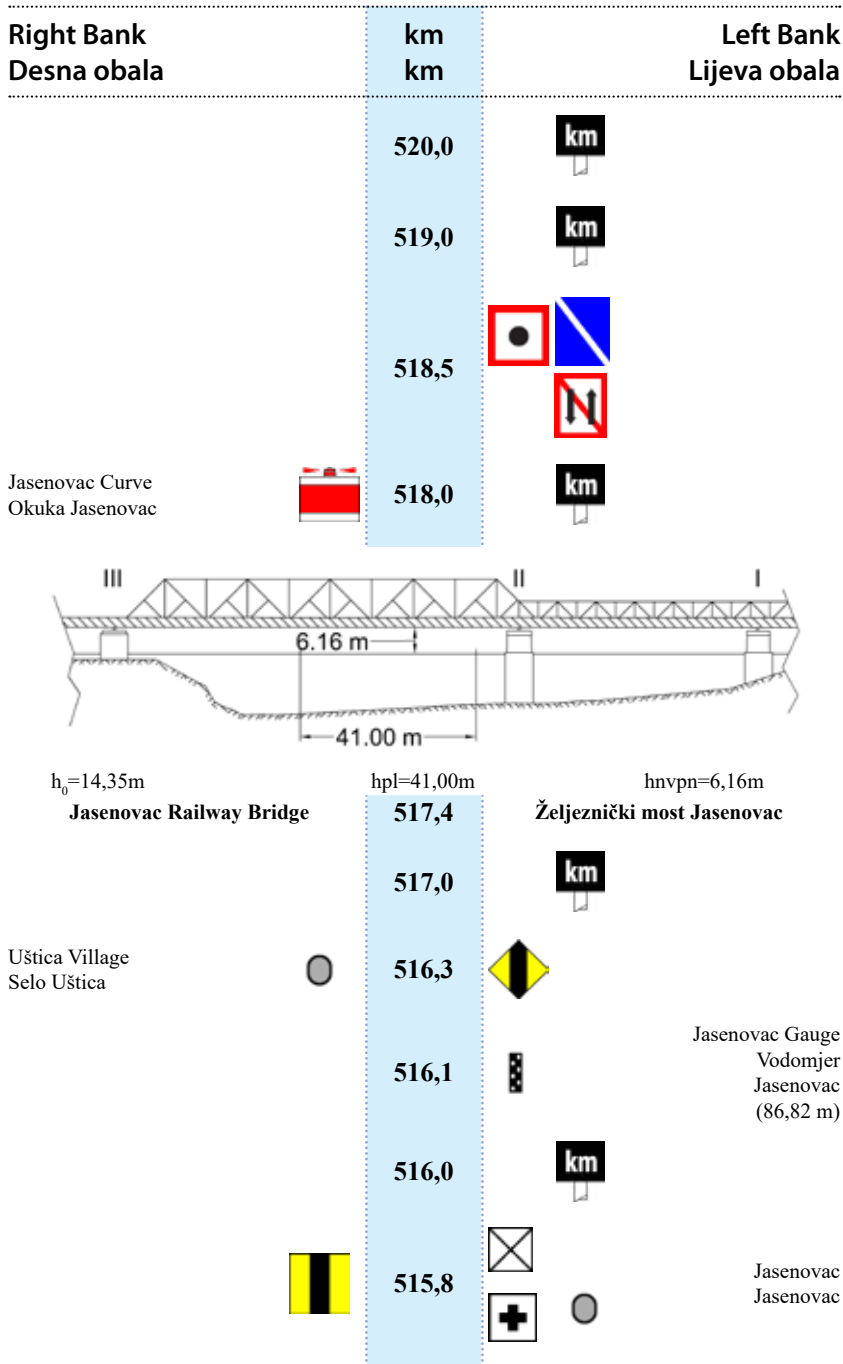
Right Bank Desna obala	km km	Left Bank Lijeva obala
	564,5	
	564,0	
Shoal Bistrać Plićak Bistrać (rkm 563,5-562,0)	563,0	Shoal Bistrać Plićak Bistrać (rkm 563,5-562,0)
	562,6	
	562,0	
Bobovac Curve Okuka Bobovac	561,0	
	560,5	Shoal (rkm 560,0-560,5) Plićak Bobovac
	560,0	
Bobovac Village Ferry-underwater 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		Shoal (rkm 554,7-553,7) Plićak Strmen
		554,0		
		553,0		
				
		552,0		Lonja Shoal Plićak Lonja (rkm 552,0-553,0)
		551,0		
		550,7		Lonja Mouth-Weir Ušće Lonje-ustava
		550,5		
		550,0		
		549,0		

Right Bank Desna obala	km km		Left Bank Lijeva obala
	548,0		
	547,2		Trebež Mouth Ušće Trebeža
	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		



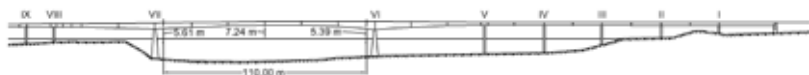




Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



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

Jasenovac Road Bridge

bpl=110m

515,6

hnvpm=5,39m

Cestovni most Jasenovac



515,6

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



515,2

515,0



514,0



513,0



512,0



511,0



510,5



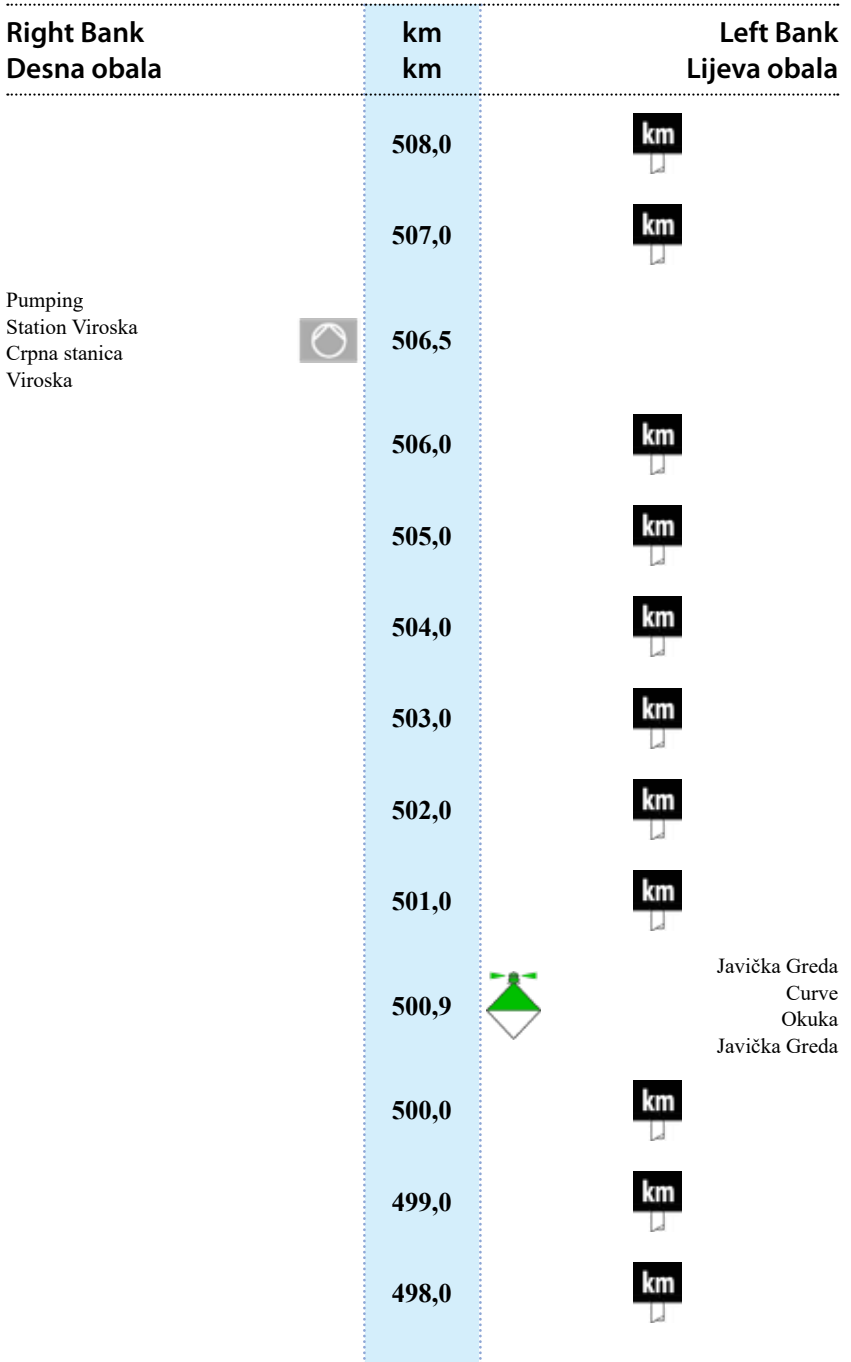
Košutarica
Village
Selo Košutarica

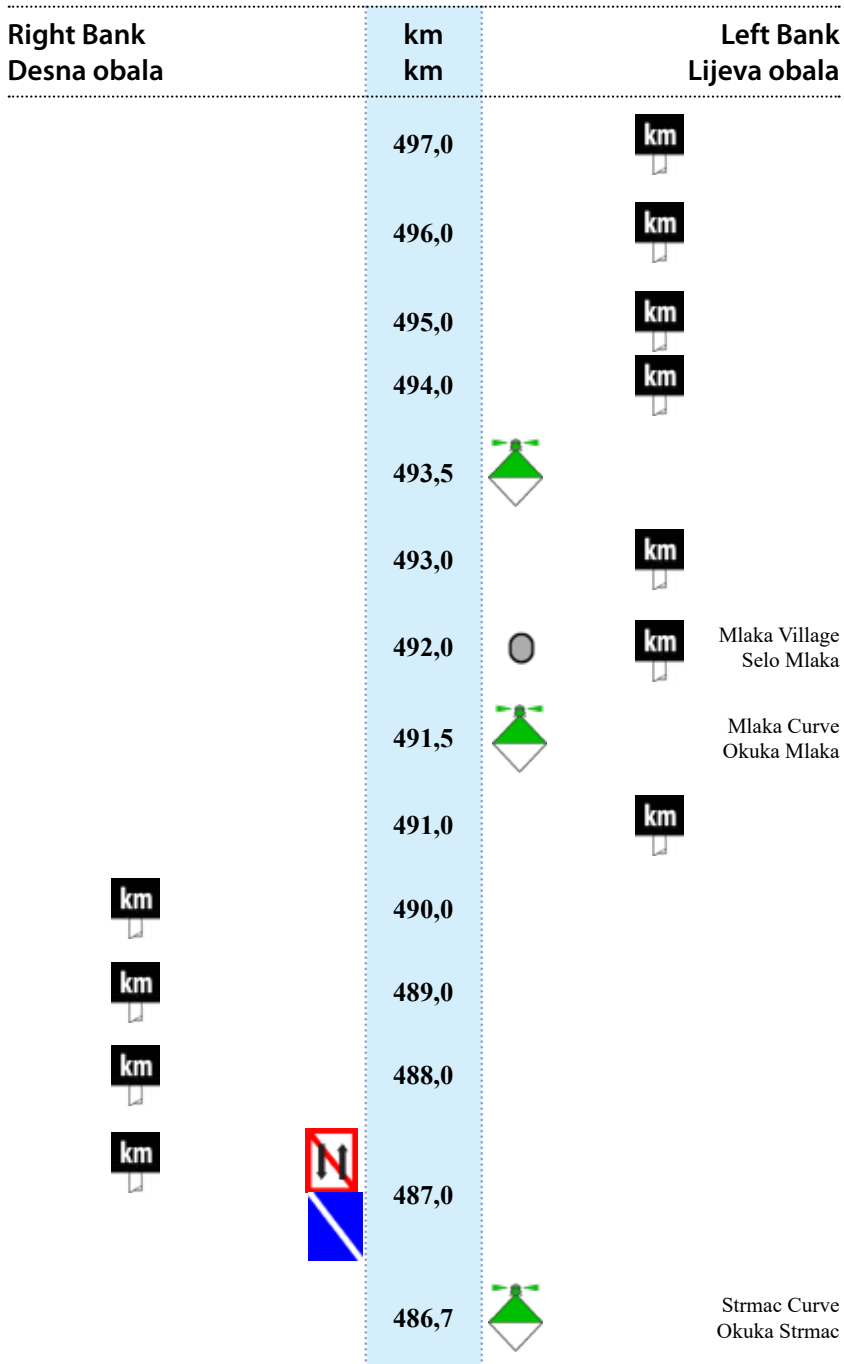
510,0

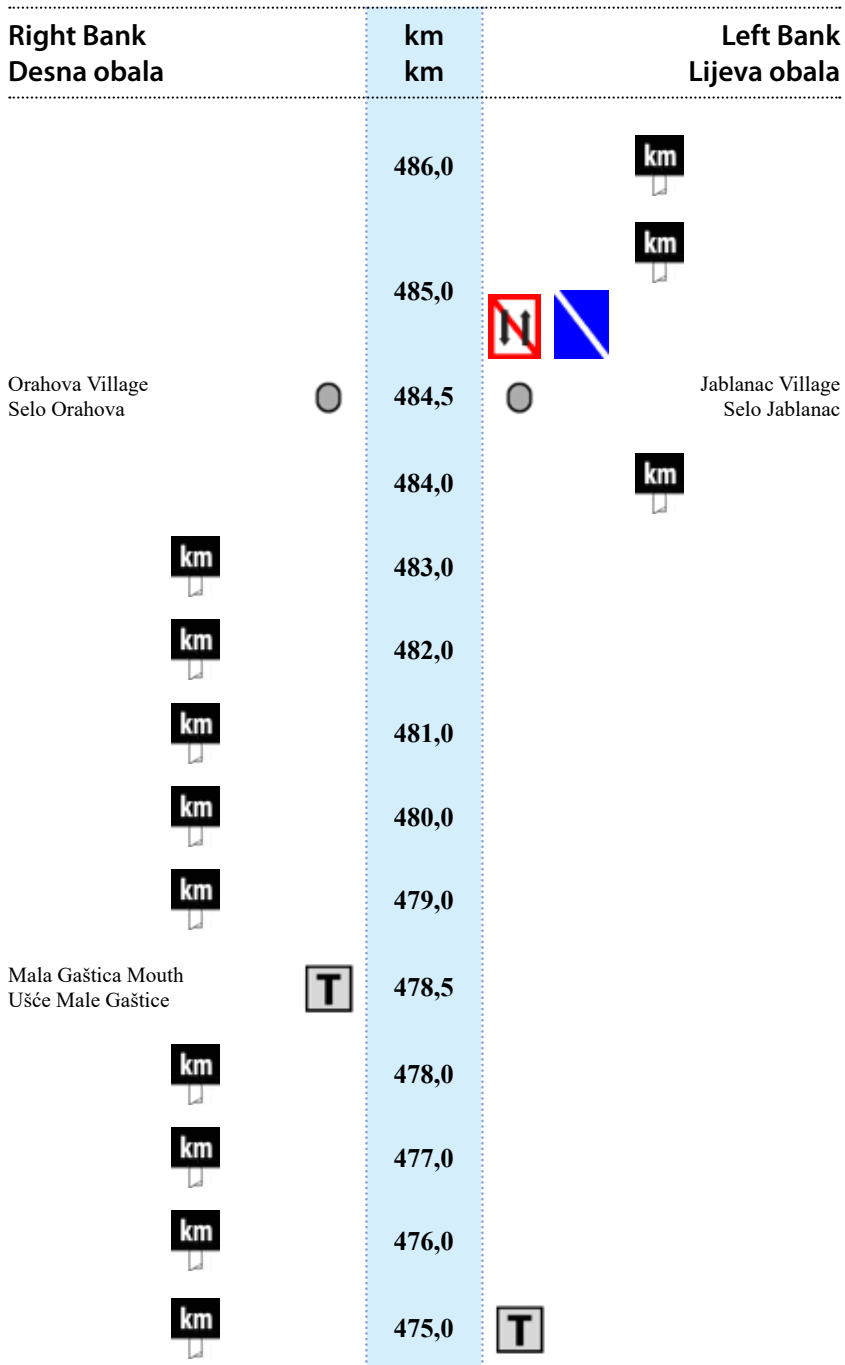


509,0

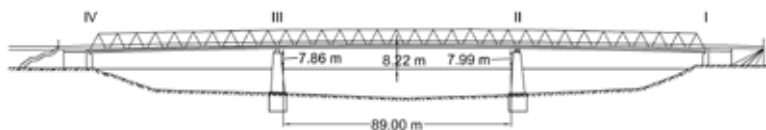








Right Bank Desna obala	km km	Left Bank Lijeva obala
	474,0	
	473,0	
	472,0	
	471,0	
Jablanica Mouth Ušće Jablanice	470,7	
	470,0	
	469,0	
	468,0	Uskoci Village Selo Uskoci
	467,9	
	467,0	Gauge (85,39 m) Stara Gradiška Vodomjer Stara Gradiška
	466,5	Winter Shelter Zimsko sklonište



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

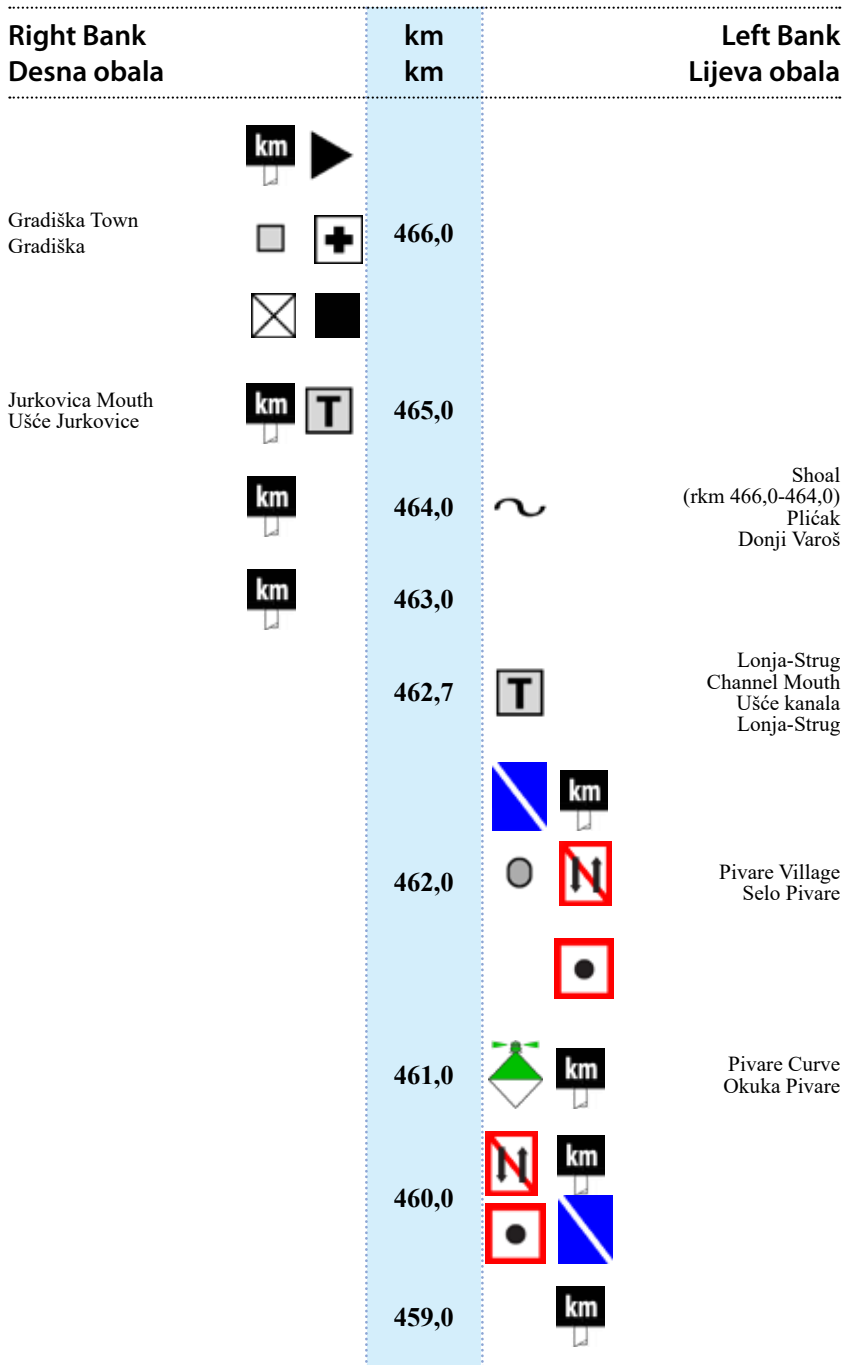
**Bosanska Gradiška/Gradiška
Road Bridge**

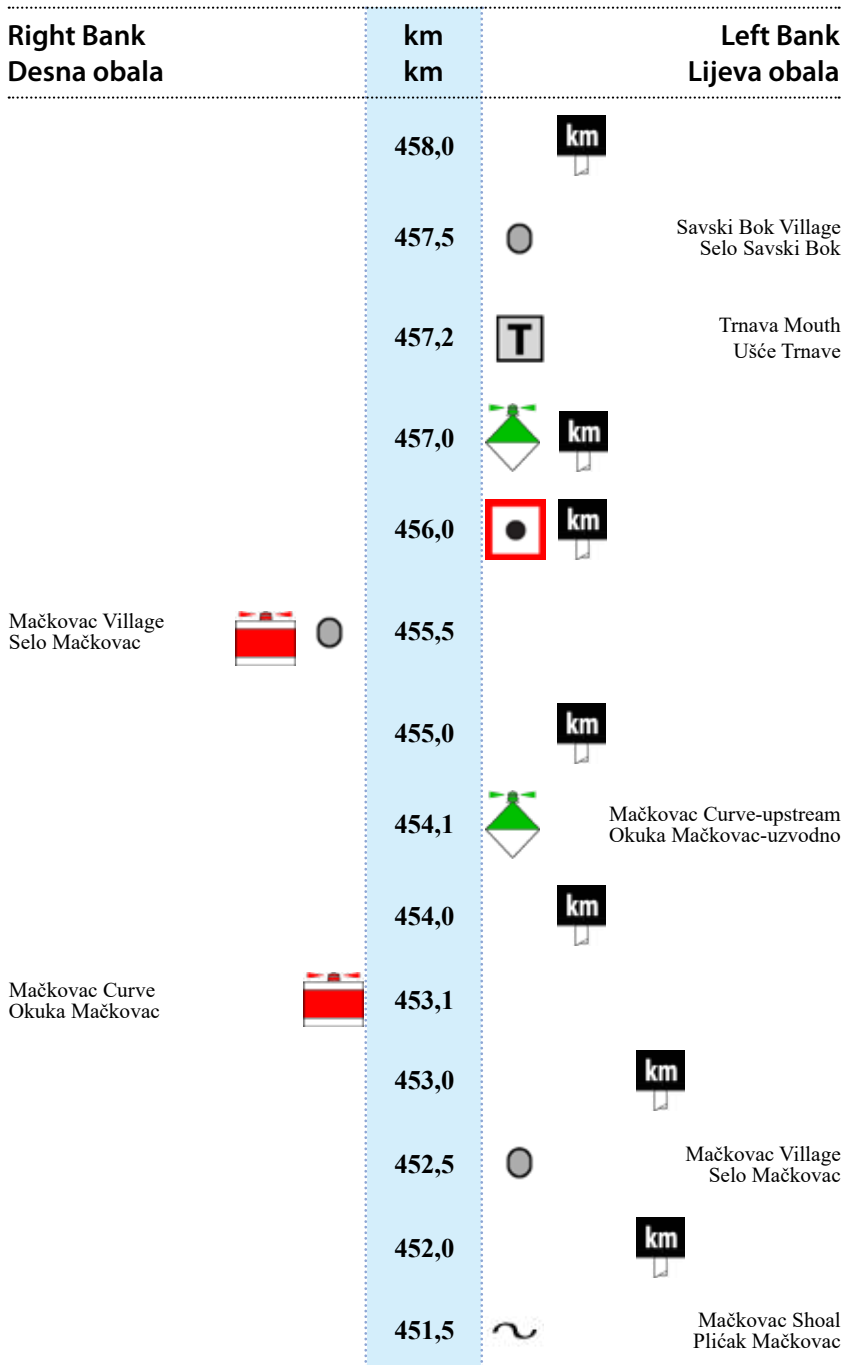
$bpl=89,00\text{m}$




















466,2

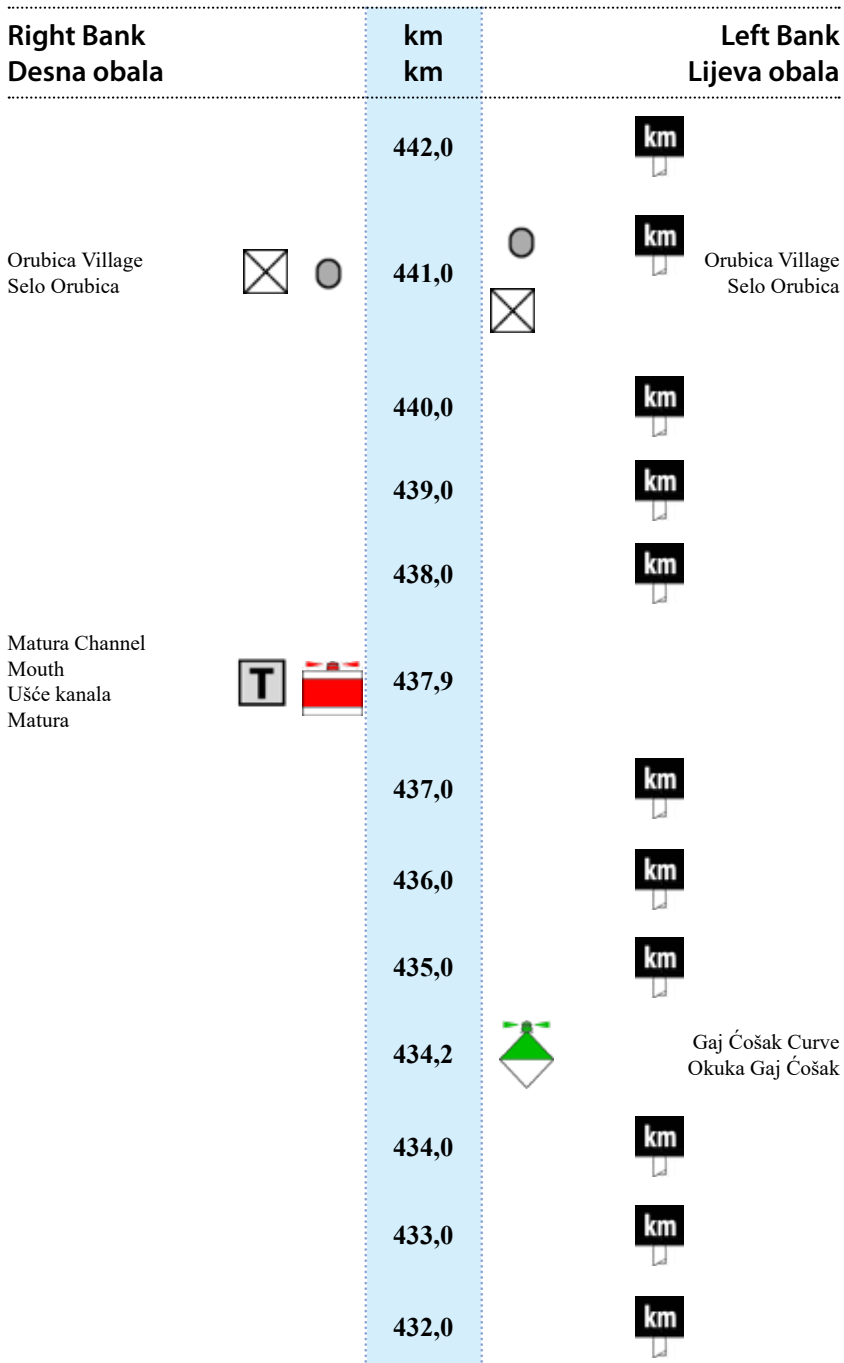
$h_{nvp}=7,86\text{m}$

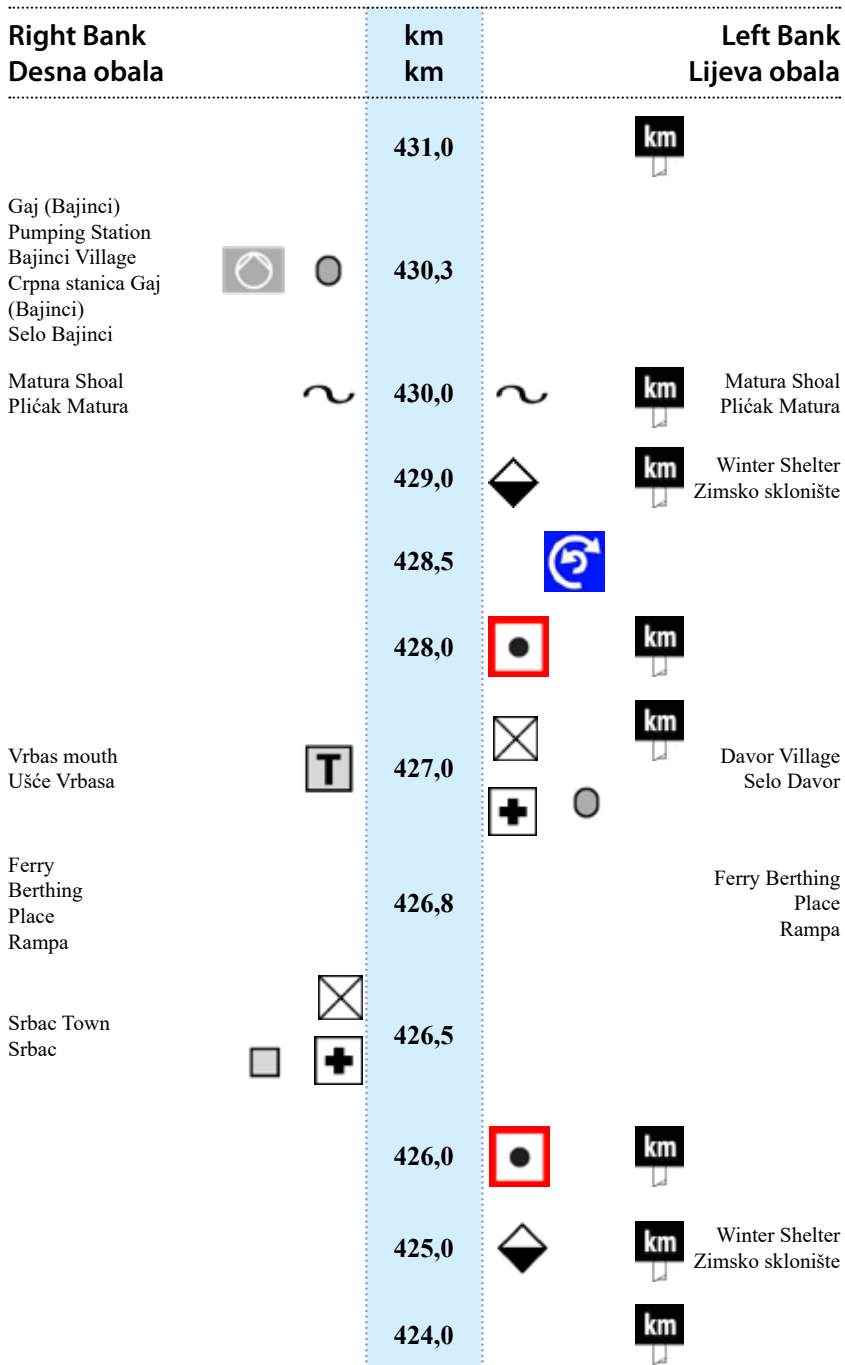
**Cestovni most
Bosanska Gradiška/Gradiška**

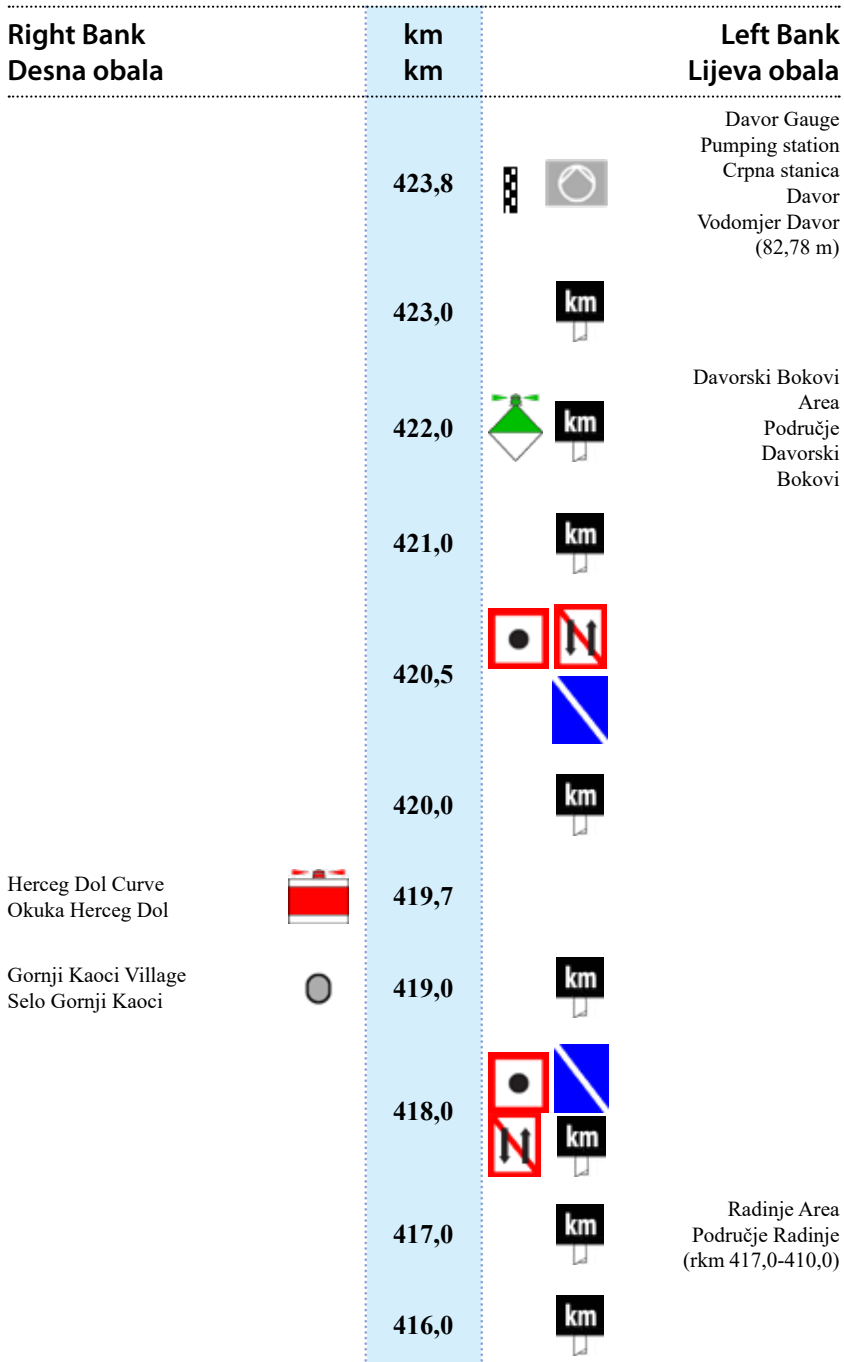













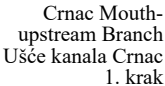







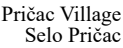


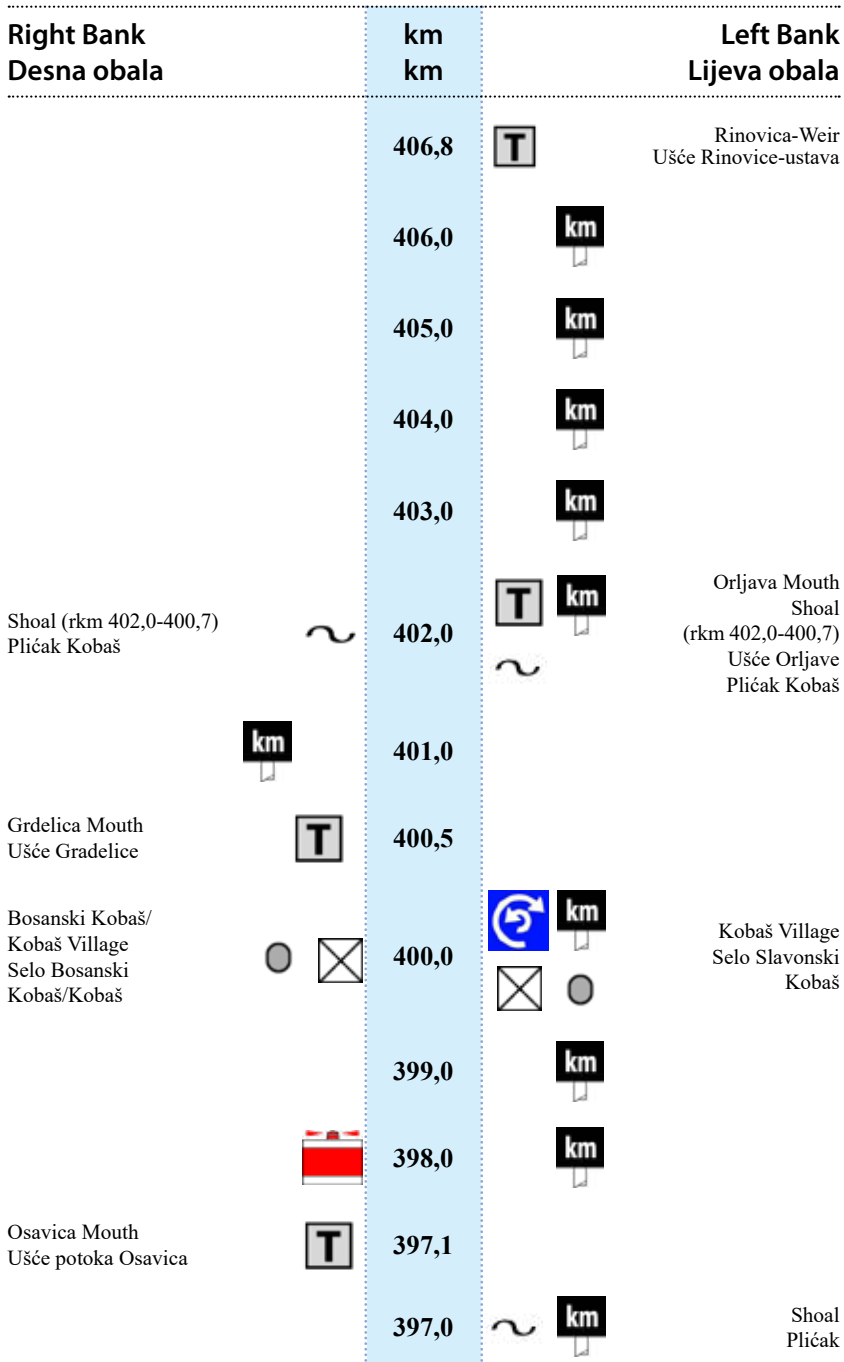
Right Bank Desna obala	km km		Left Bank Lijeva obala
	451,3	 	Mačkovac Gauge Mačkovac Weir Ustava Mačkovac
	451,0		
High-voltage Duct Dolina Pumping Station Visokonaponski vod Crpna stanica Dolina	450,0	  	High-voltage Duct Visokonaponski vod
Dolina Village Selo Dolina	449,0	 	Dolina Village Selo Dolina
Dolina Shoal Plićak Dolina	448,0	 	Dolina Shoal Plićak 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		

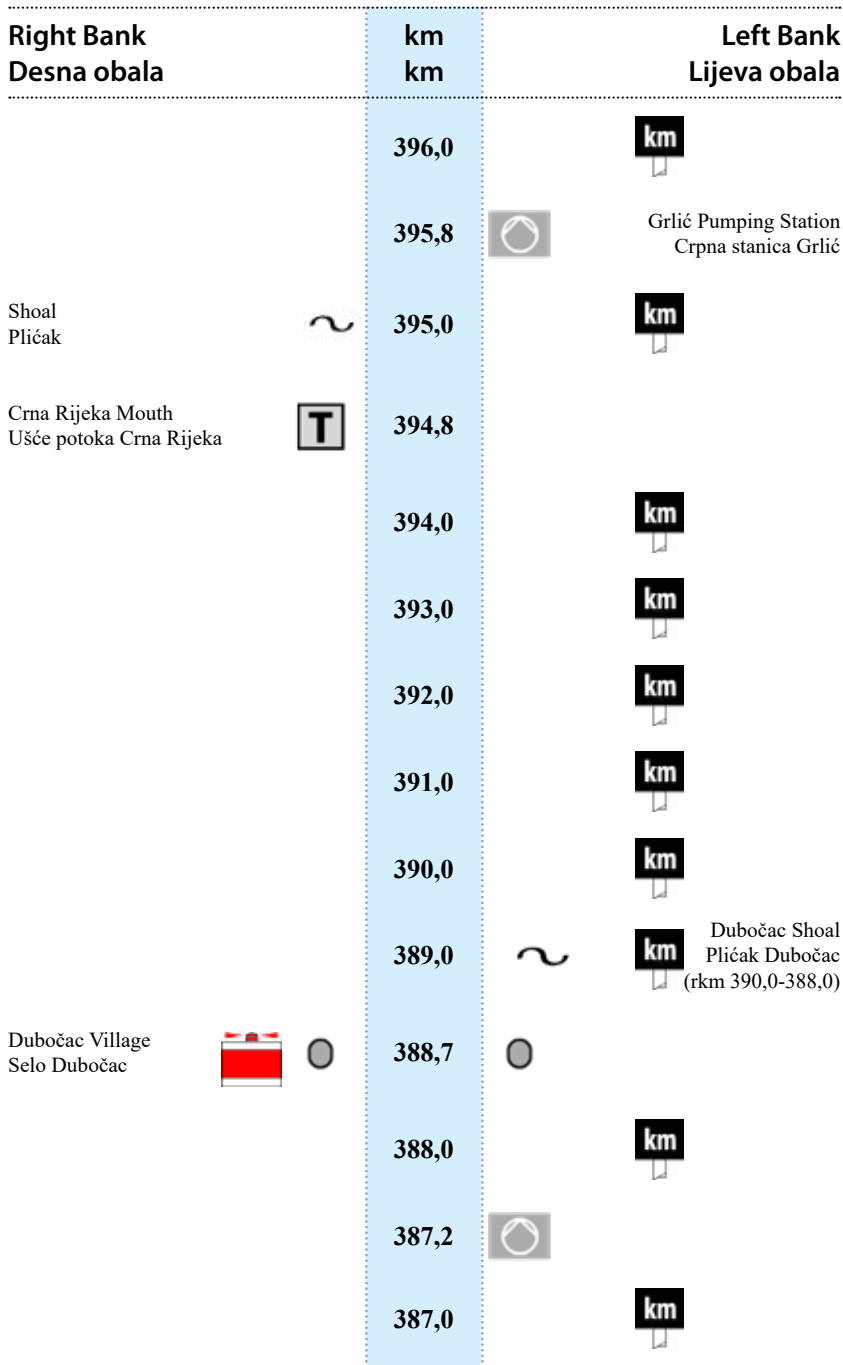



















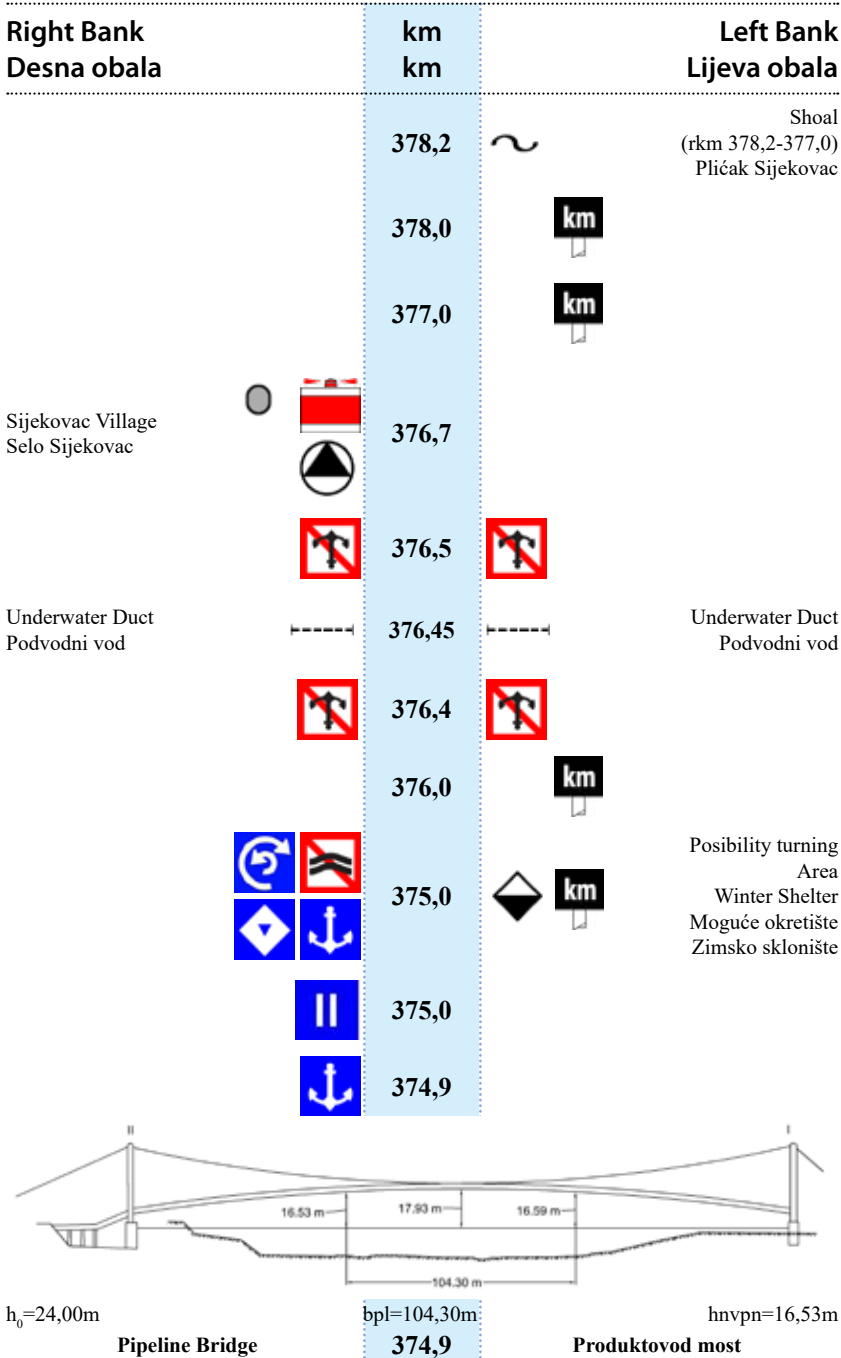





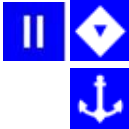






Right Bank Desna obala	km km	Left Bank Lijeva obala
	415,0	
Donji Kaoci Village Vlaknica Mouth Selo Donji Kaoci Ušće Vlaknice	  414,0	
Shoal Plićak	 413,0	
Motajica Liman Area Područje Motajički Liman (rkm 413,0-412,0)	 412,4	
	412,0	 
	411,0	
	410,5	 
	410,0	
	409,0	
	408,0	
	407,8	
Brusnik Village Selo Brusnik	 407,5	
	407,0	  





Right Bank Desna obala	km km	Left Bank Lijeva obala
	386,0	
Zbjeg Shoal Plićak Zbjeg (rkm 385,0–382,0)	 385,0	
	384,0	
	383,1	
	383,0	
Zbješka Ada Island Zbješka Ada	 382,5	
	382,0	 Zbješka Urija Area Područje Zbješka Urija
Ukrina Mouth Ušće Ukrine	 381,5	
	381,0	
Shoal (rkm 380,0-379,0) Plićak 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
	374,8	
Oil Refinery Rafinerija nafte	374,7	
Pipeline JANAF	374,6	Pipeline JANAF
Reloading Place Pretovarno mjesto rafinerije nafte	374,5	
	374,1	
	374,0	
	373,8	
	373,6	
	373,0	
Brod Town Brod	372,0	
	371,6	

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



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

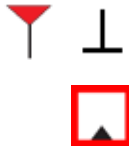
$bpl=66,30\text{m}$

$h_{nvpn}=7,65\text{m}$

Road Bridge
Bosanski Brod/Brod-Slavonski Brod

Cestovni most
Slavonski Brod-Bosanski Brod/Brod

Brodaska Ada Island
Brodaska ada



371,5

371,5

371,3

371,0

371,0

370,1

370,0

369,0

















368,0

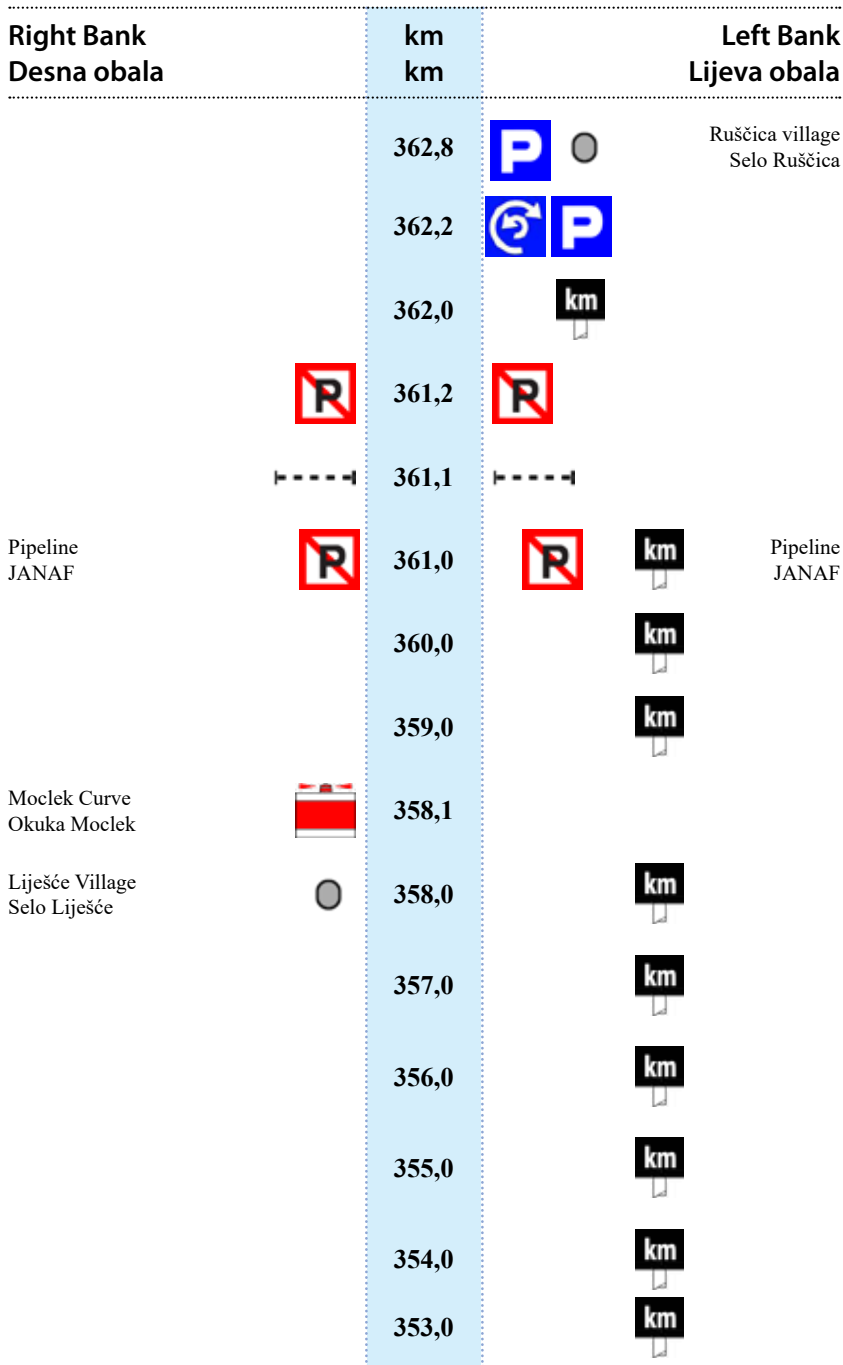


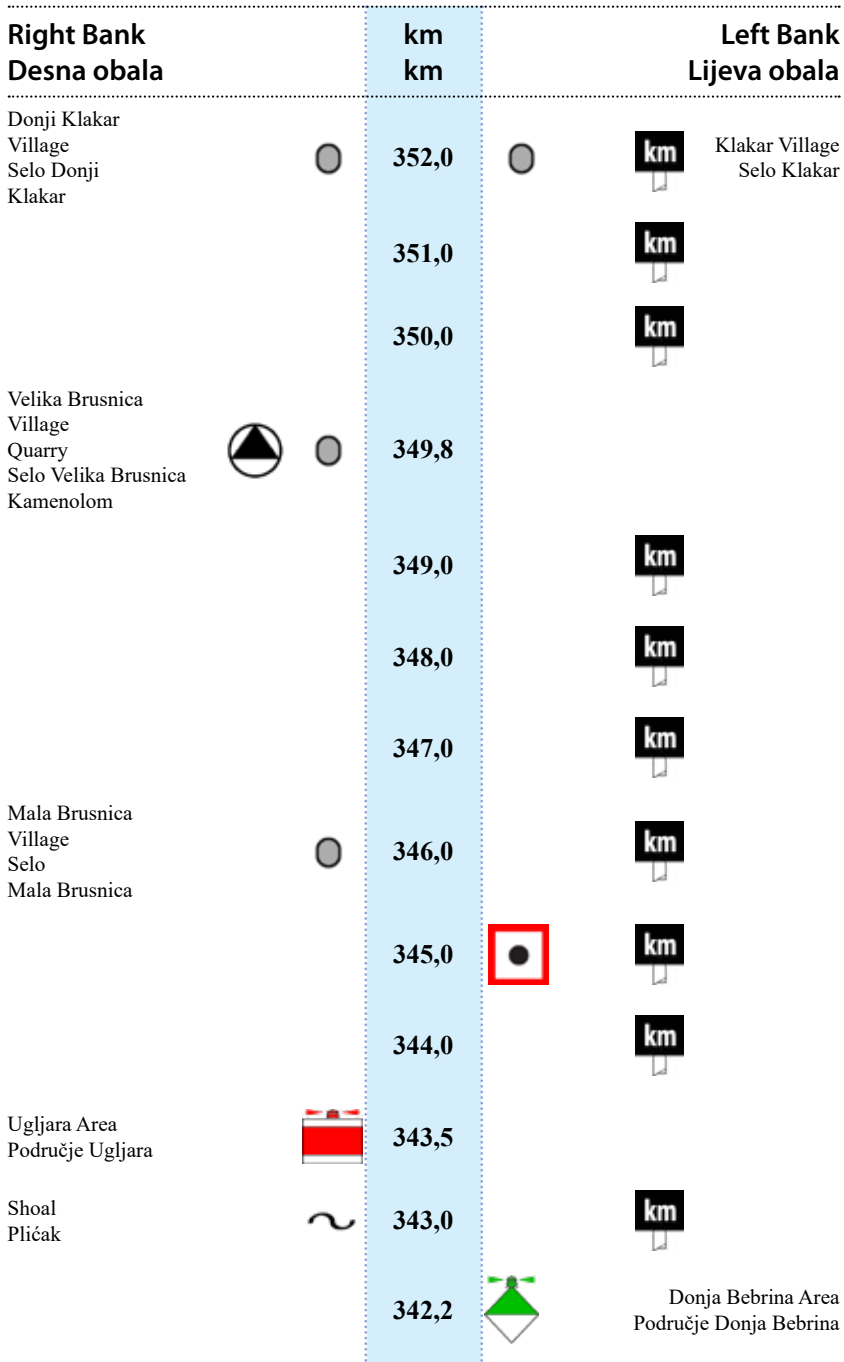
Gauge
Vodomjer
Slavonski Brod (81,80 m)

Slavonski Brod
Town
Slavonski Brod

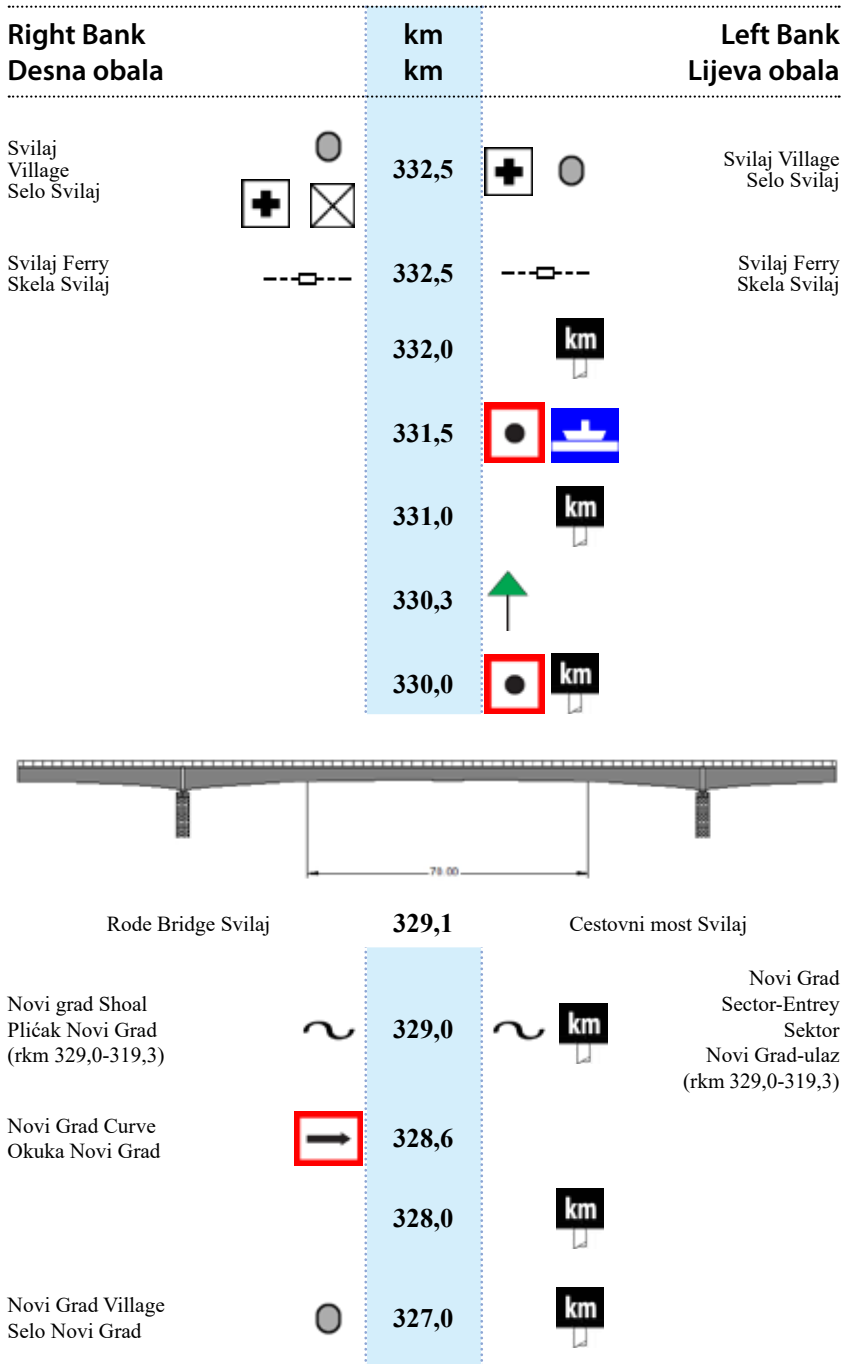
Slavonski Brod
Town
Slavonski Brod

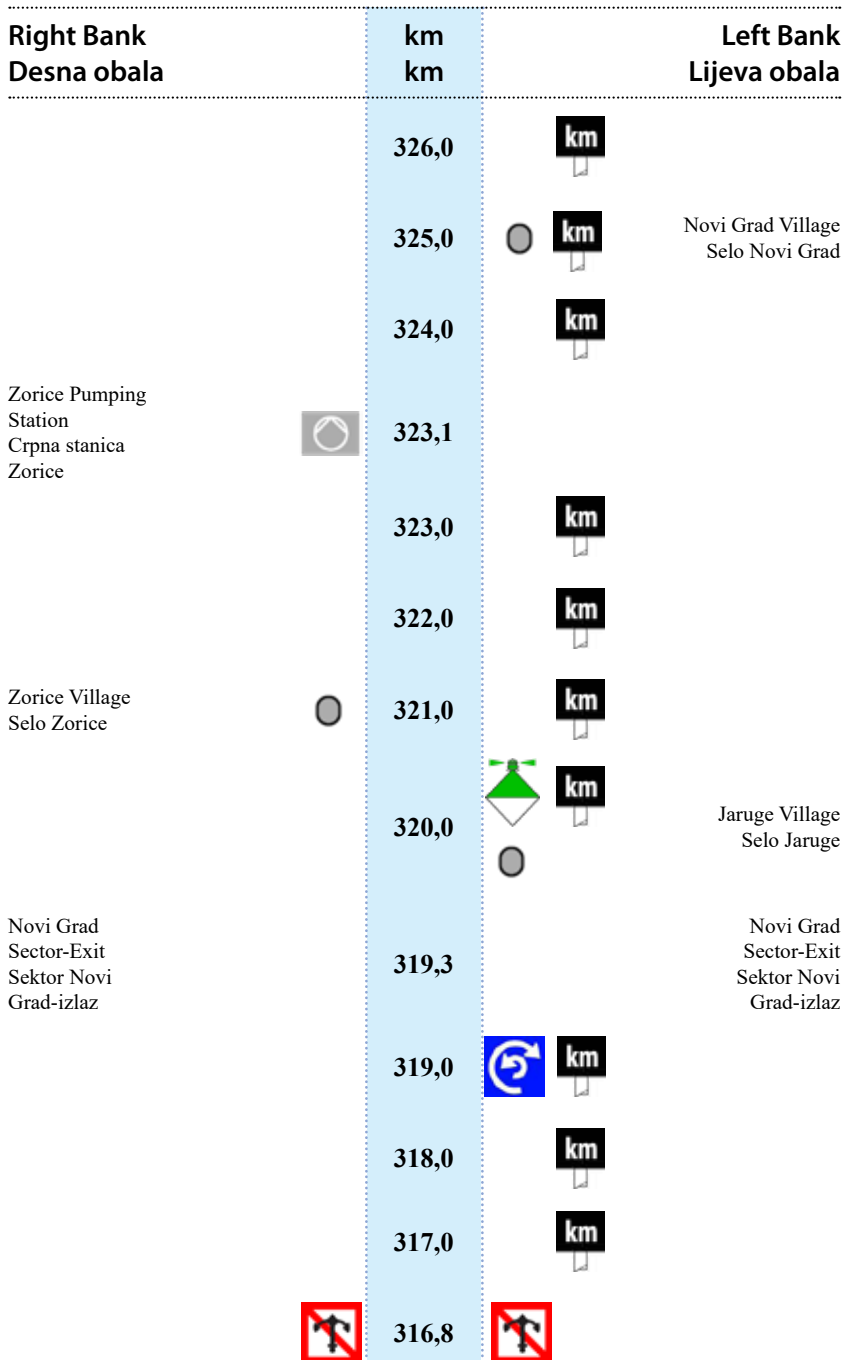
Right Bank Desna obala	km km	Left Bank Lijeva obala
Brodsko Polje Pumping Station Crpna stanica Brodsko Polje	 367,0	Shoal Plićak Poloj (rkm 367,0-366,0) 
	366,8	
	366,6	Poloj Bay Kupalište Poloj
	366,3	
	366,0	Winter Shelter Zimsko sklonište 
	365,0	
	364,9	Glogovica Mouth Ušće Glogovice 
High voltage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







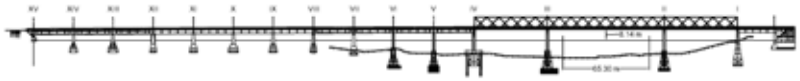




Right Bank Desna obala		km km		Left Bank Lijeva obala
Underwater Duct Podvodni vod		316,7		Underwater Duct Podvodni vod
		316,5		
		316,0		Jabuka Winter Shelter Zimsko sklonište Jabuka
		315,0		
		314,8		Slavonski Šamac Reloading Site Pristanište Slavonski Šamac
Bosna Mouth Ušće Bosne		314,5		Gauge Vodomjer 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

$bpl=65,30m$
311,8

$h_{avn}=8,14m$
Cestovno-željeznički most
Bosanski Šamac/Šamac

High voltage Duct
 Visokonaponski vod



311,2



High voltage Duct
 Visokonaponski vod

311,0



Savulja Shoal
 Plićak Savulja

310,0



309,3



309,0



Bukovi Shoal
 Plićak Bukovi



308,6



Bukovi Shoal
 Plićak Bukovi

308,0



Grebnice Village
 Vučjak Curve
 Selo Grebnice
 Okuka Vučjak



307,0



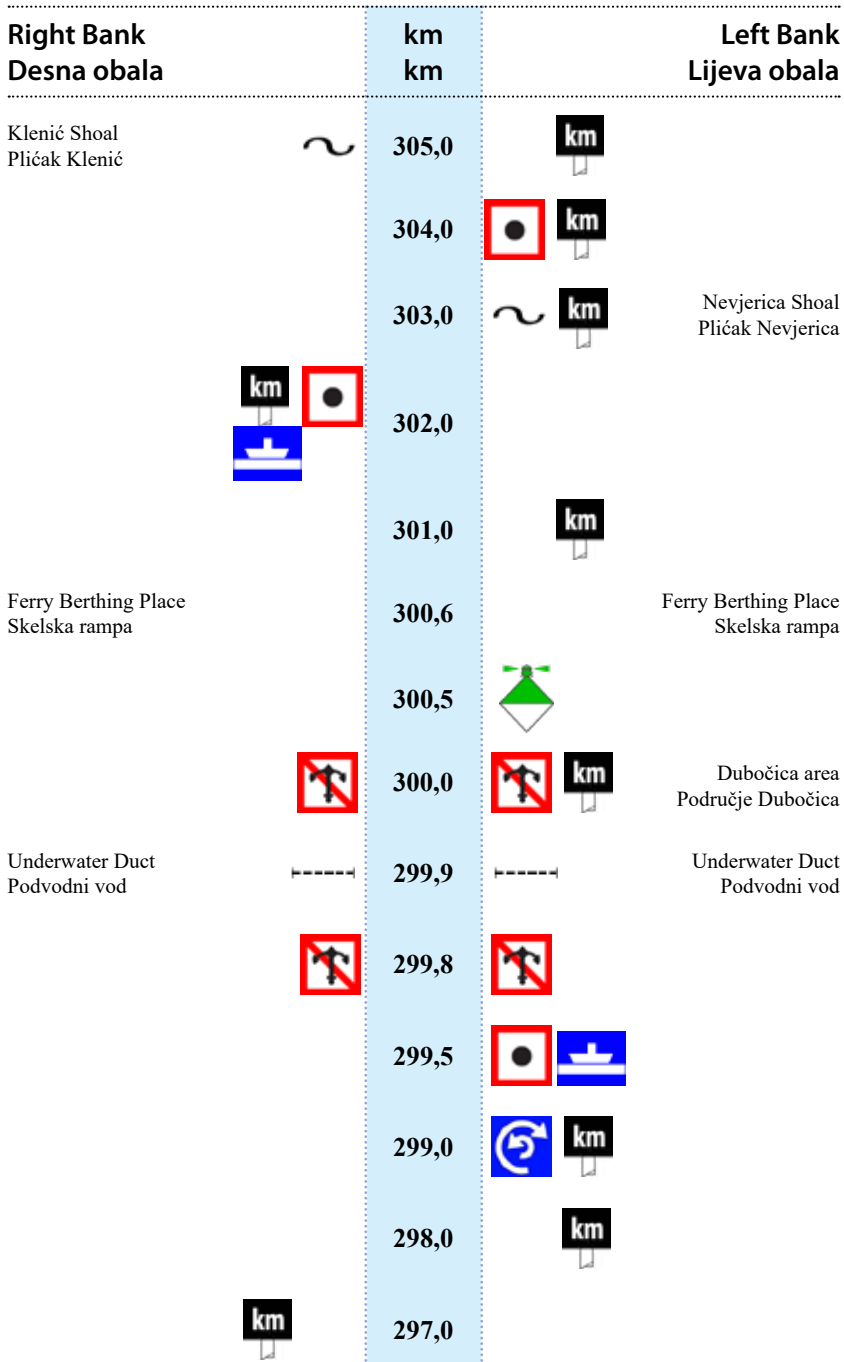
306,7

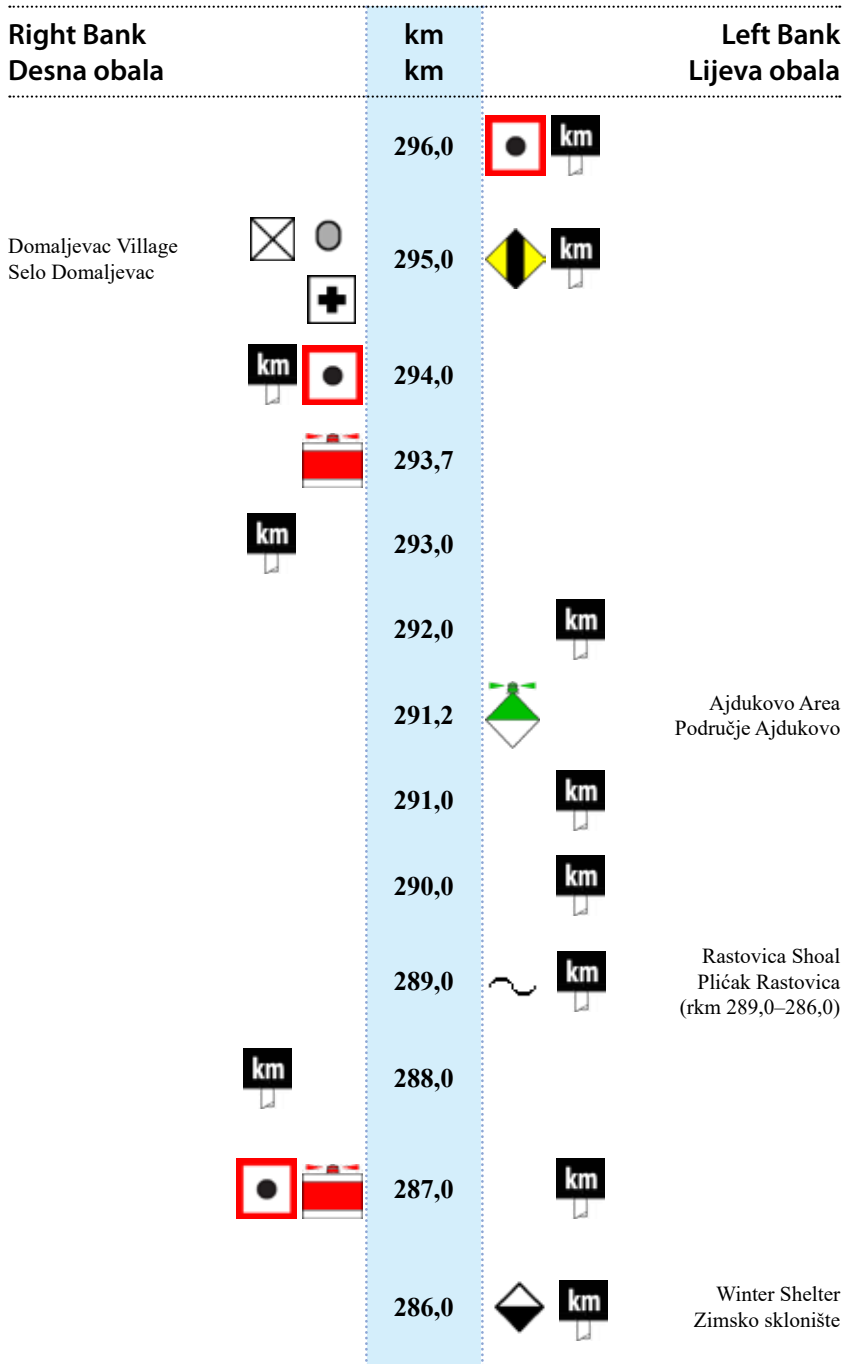


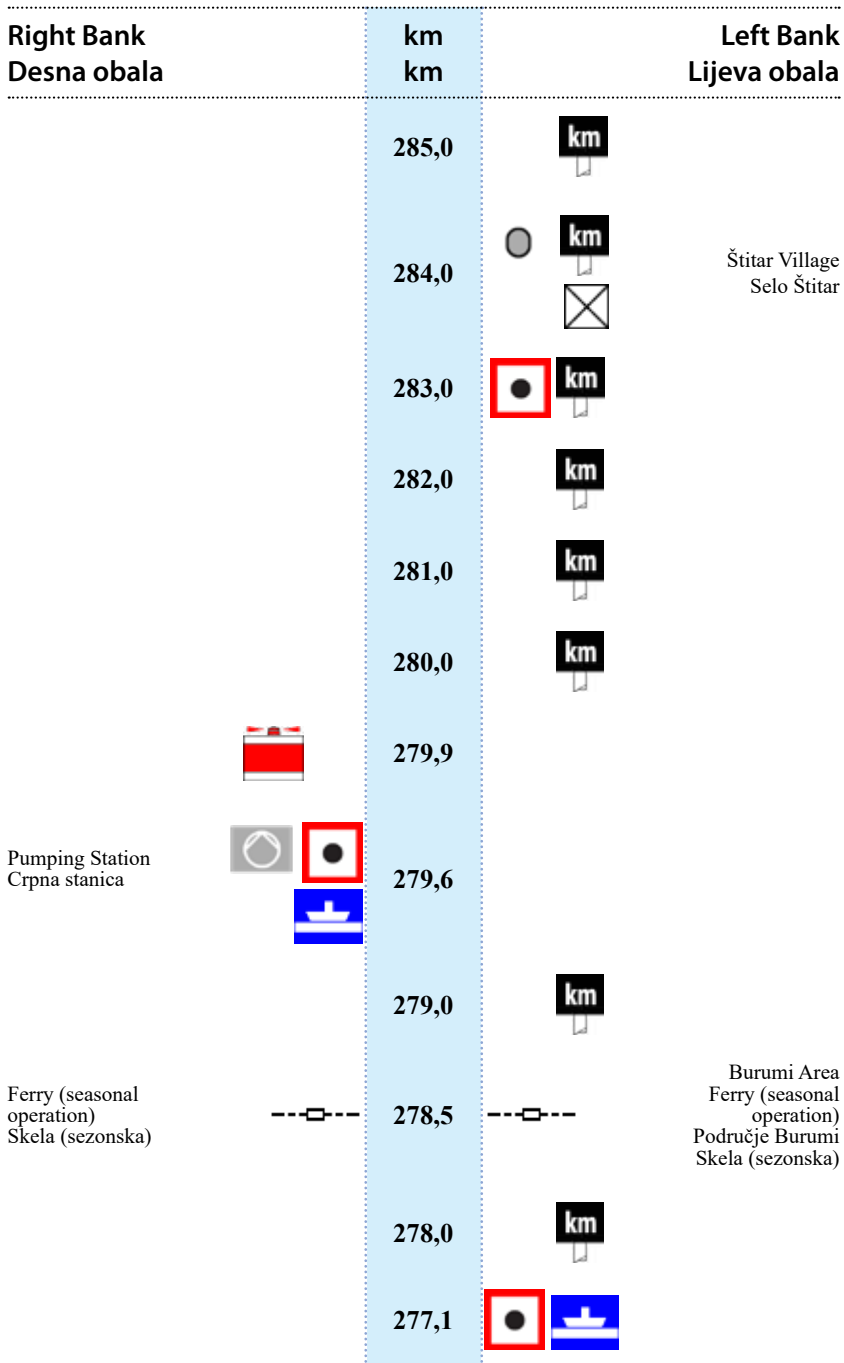
Winter Shelter
 Zimsko sklonište

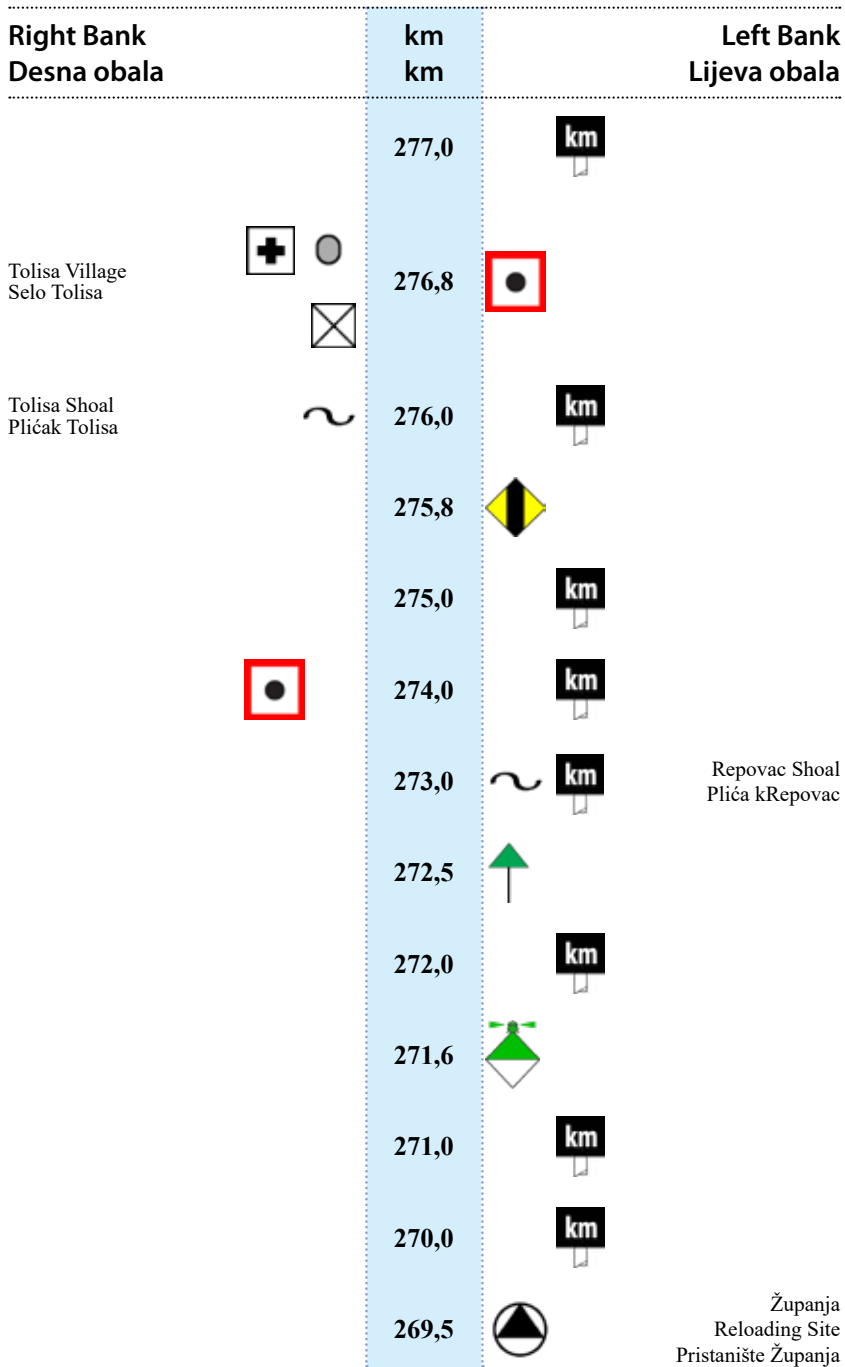
306,0

















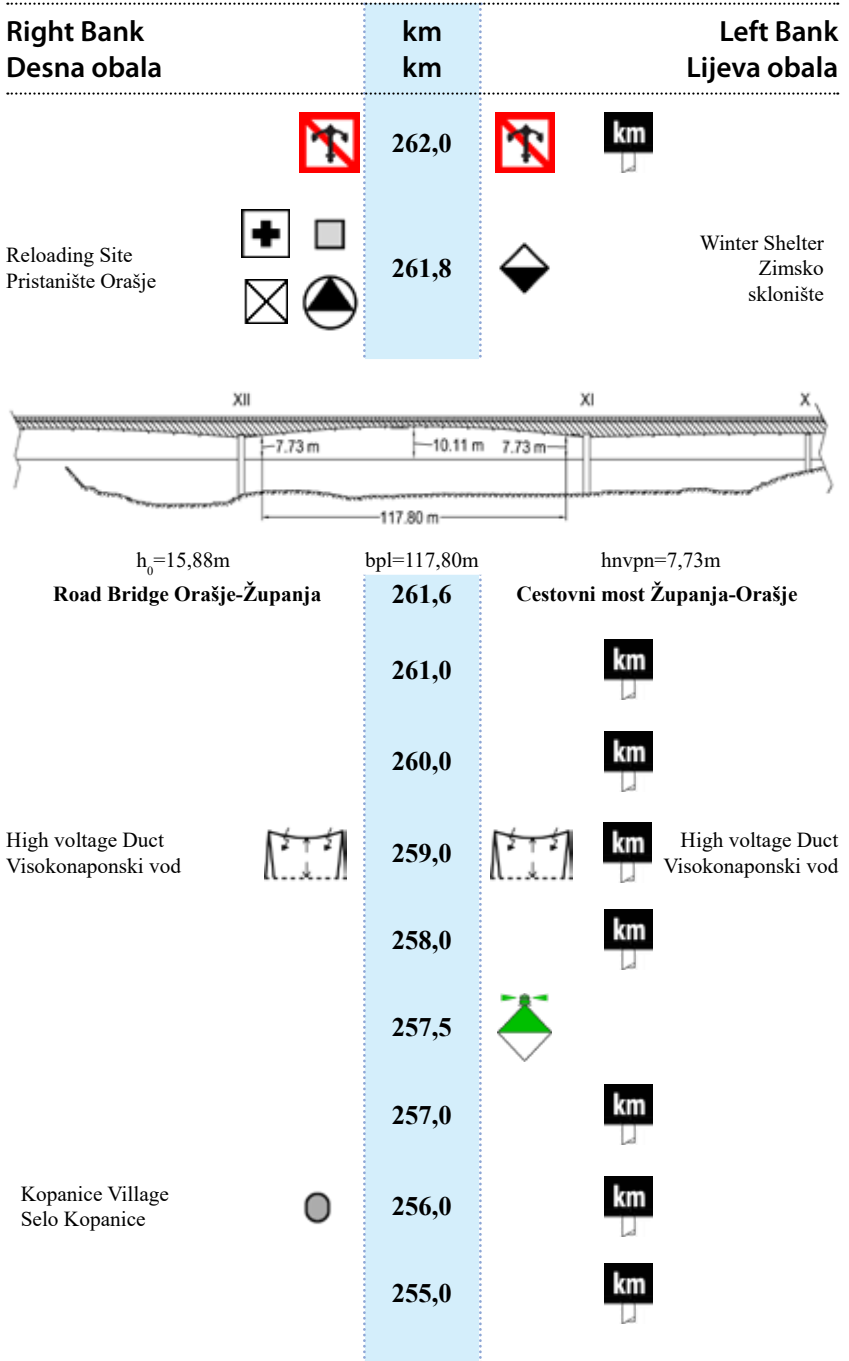




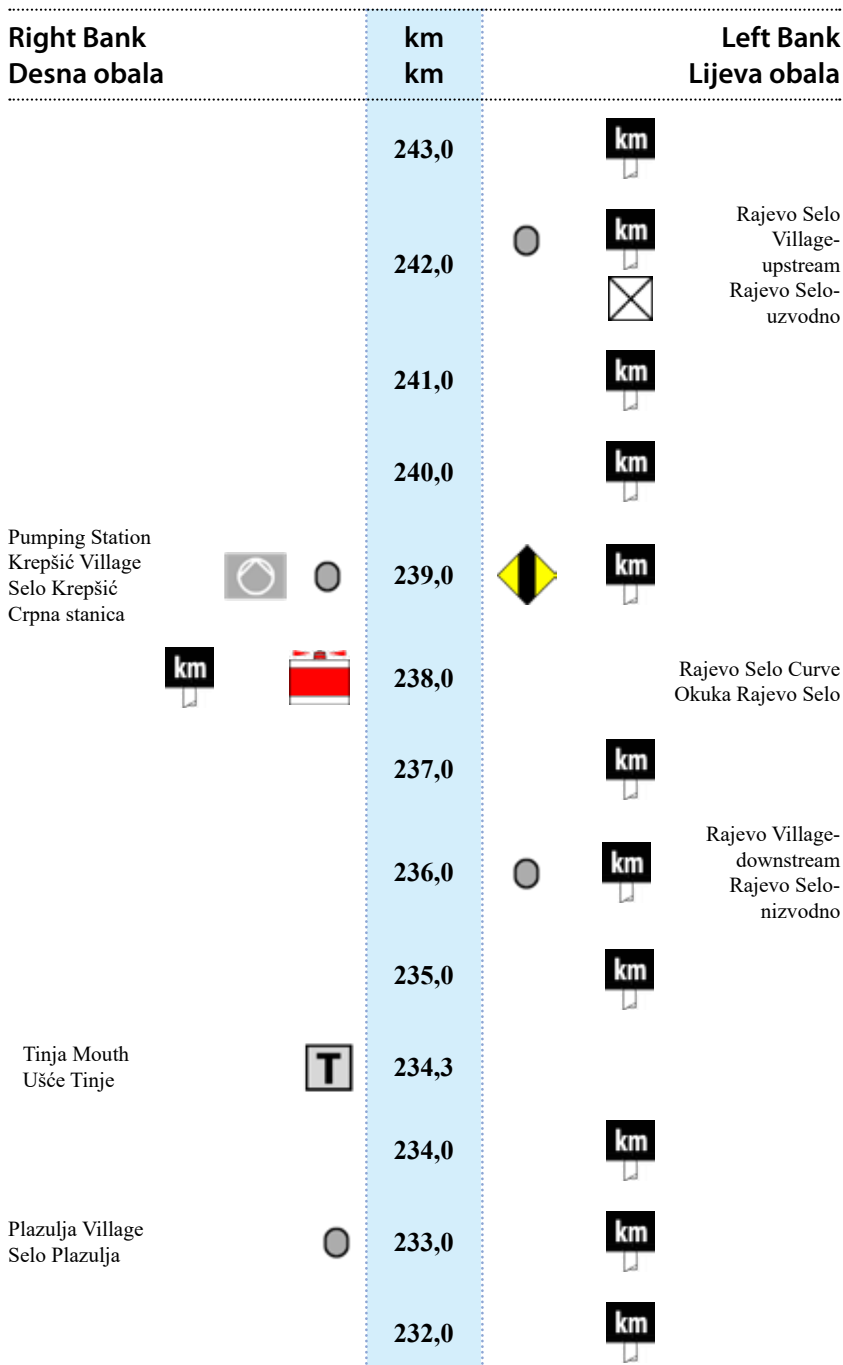






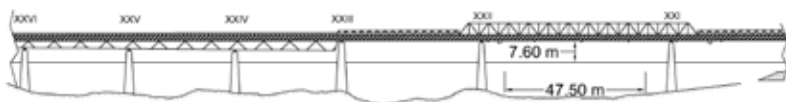
Right Bank Desna obala	km km		Left Bank Lijeva obala
	269,0		
	268,7		
	268,0		
	267,6	  	Županja Gauge Županja Vodomjer (76,28 m) Županja
	267,0		
	266,0		
	265,7		Županja Ciglana Area Područje Županja Ciglana
	265,5		Poloji Bay Plaža Poloji
	265,0		
	264,0		
	263,0		
	262,7		
Underwater Duct Podvodni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







Right Bank Desna obala	km km	Left Bank Lijeva obala
	231,0	km
	230,0	km
Brka Mouth Ušće Brke	 229,0	km
Gauge (76,62 m) Vodomjer Brčko	 228,6	



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

bpl=47,50m

h_{nv}pn=7,60m

Road Bridge Brčko-Gunja

228,6

Cestovni most Gunja-Brčko

Brčko
Town
Brčko



228,4



Gunja Village
Winter Shelter
Selo Gunja
Zimsko sklonište



Port of Brčko
Border Crossing
Luka Brčko
Granični prelaz



228,4



228,4

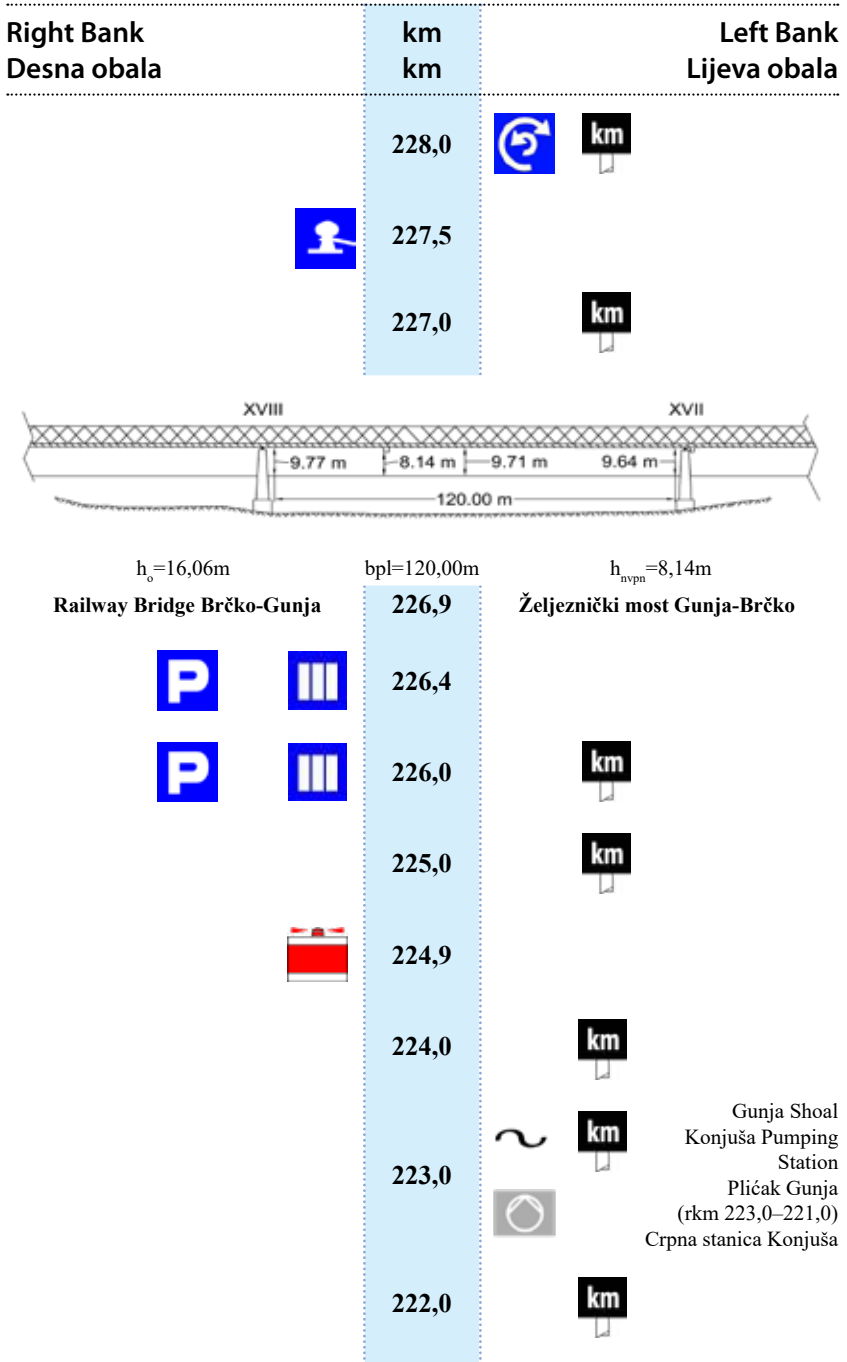
Port of Brčko
Luka Brčko






















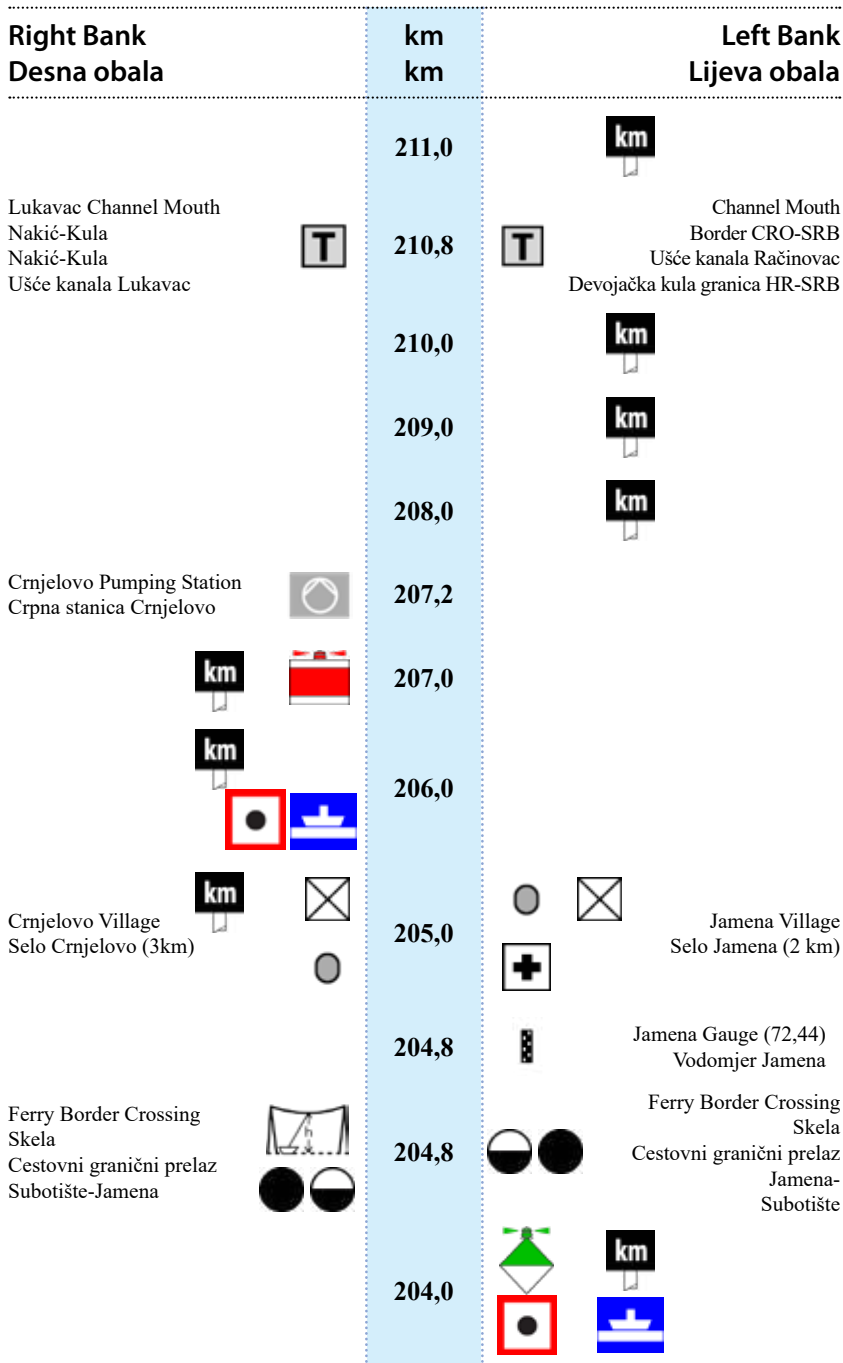
228,2

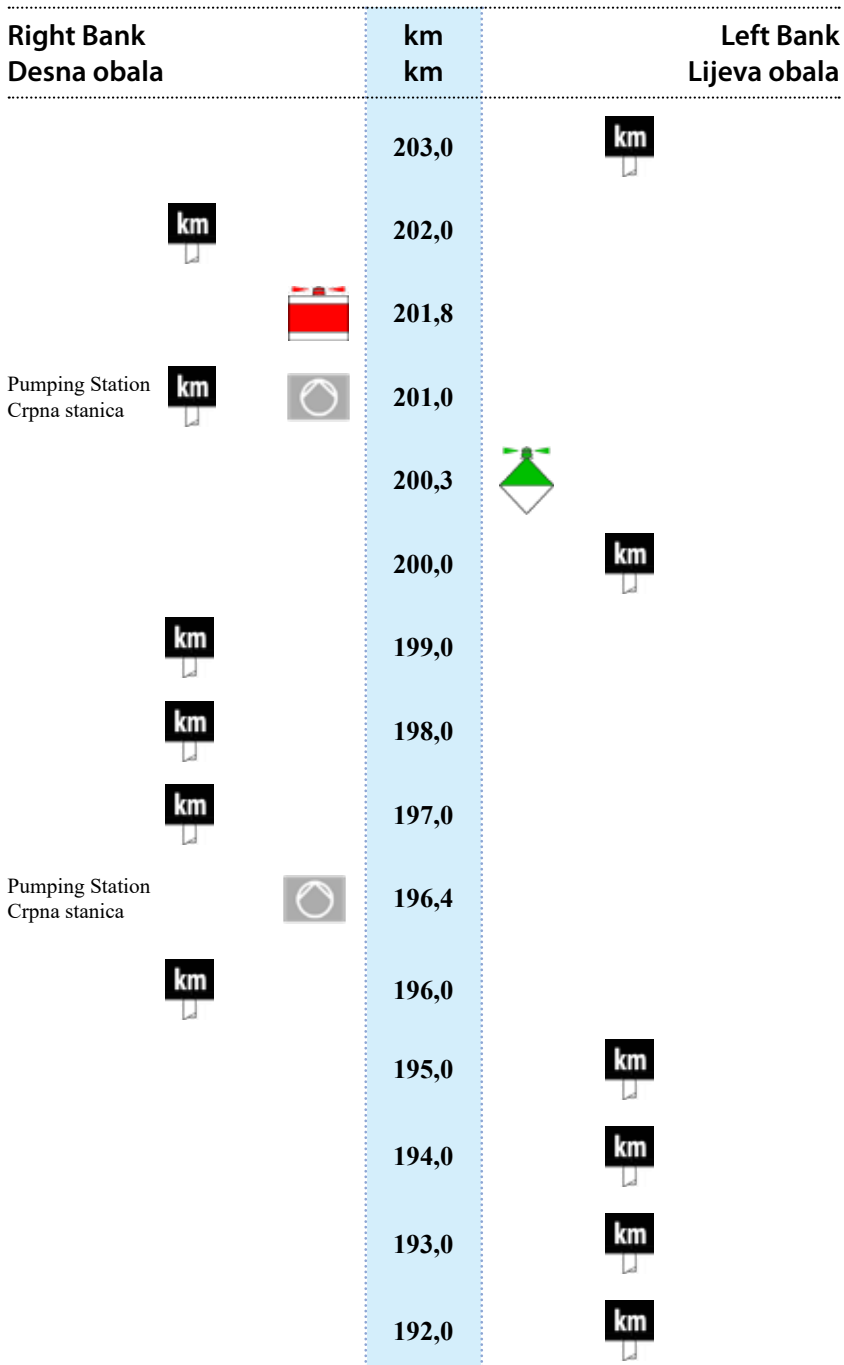


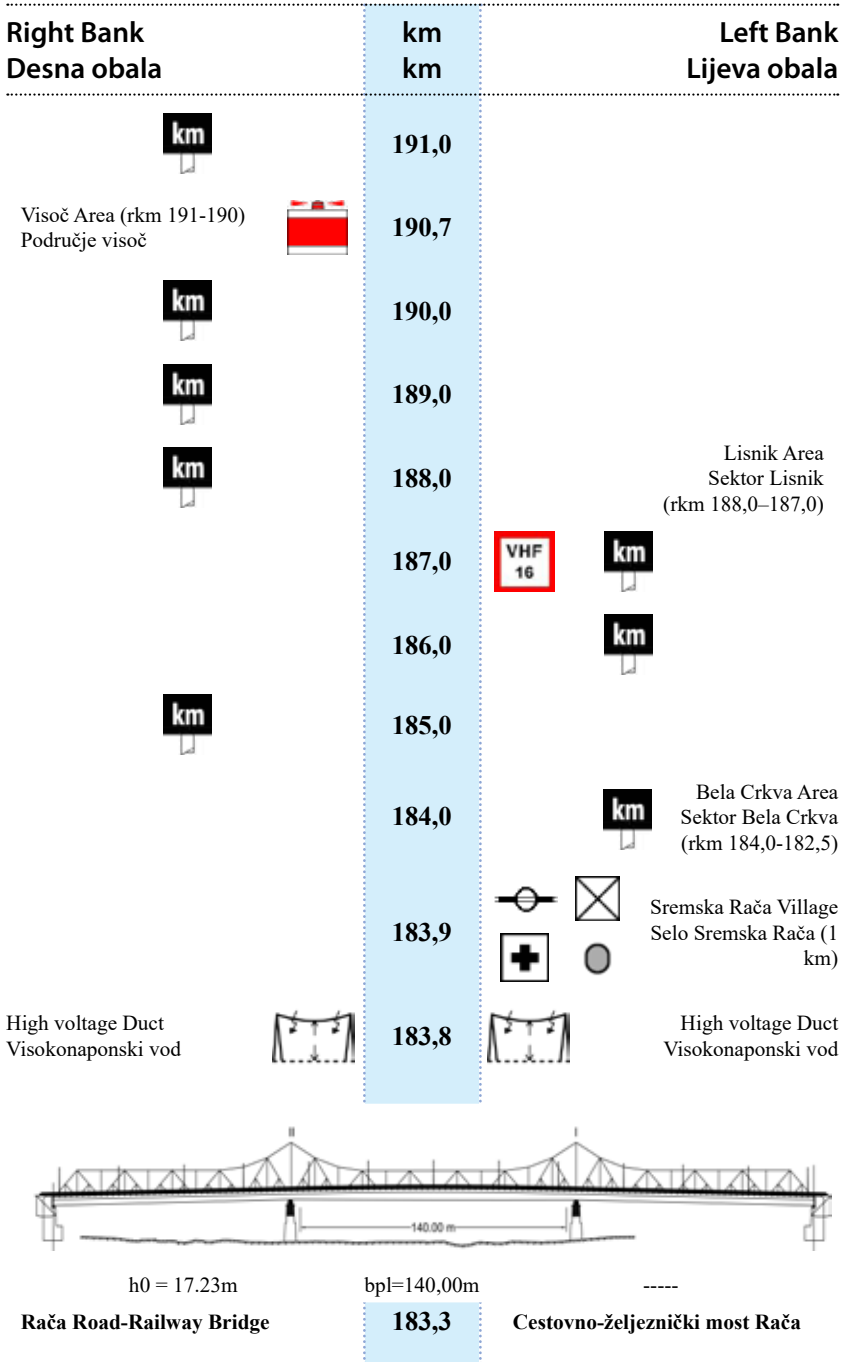
228,1










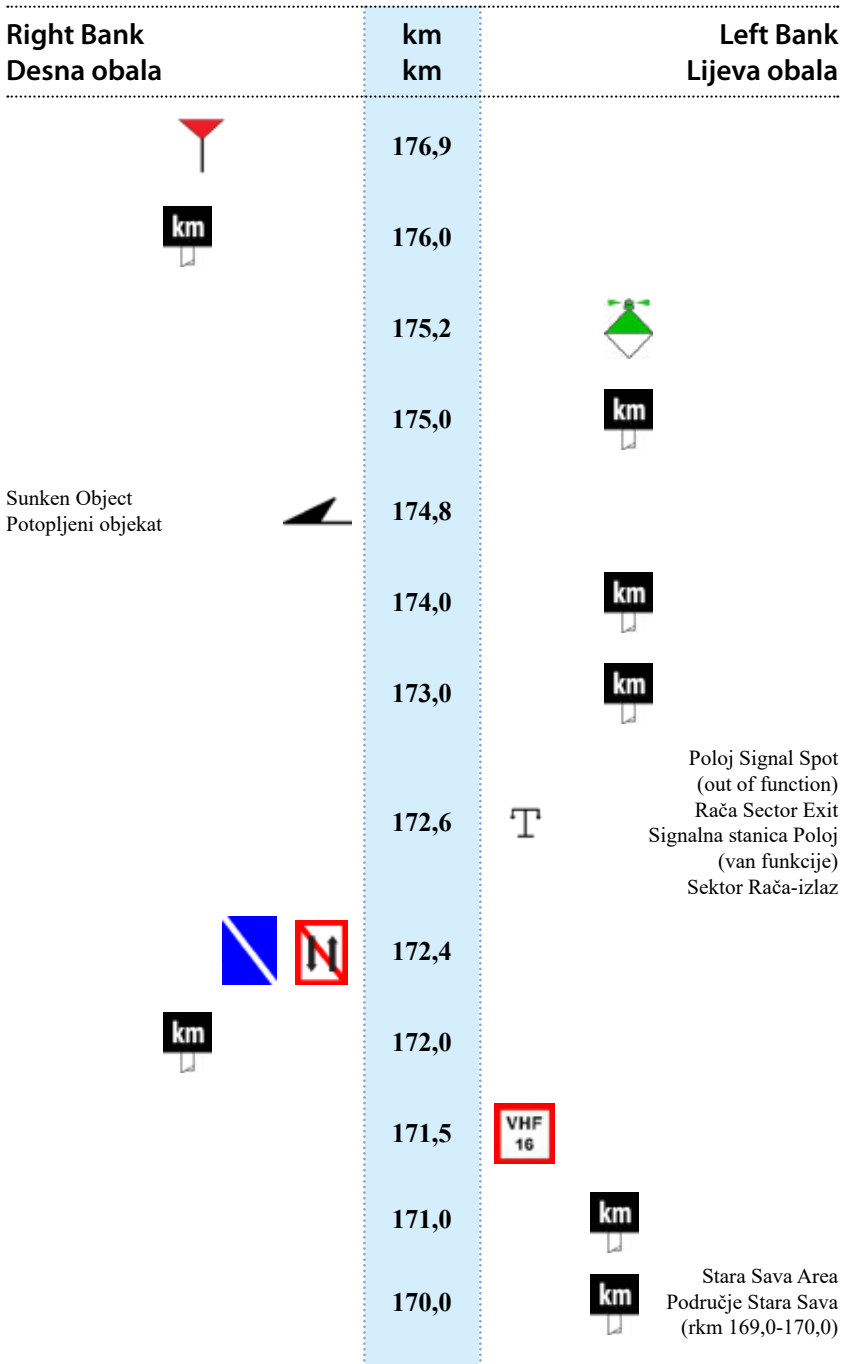
Right Bank Desna obala	km km		Left Bank Lijeva obala
	221,0		
	220,8		
	220,0		
	219,7		
Trnjani Shoal Plićak Trnjani	219,0		
	218,0		
	217,0		
	216,7		
Brezovo Polje Village Selo Brezovo Polje	216,0		  Račinovci Village Selo Račinovci
	215,0		
	214,0		
	213,8	 	Teča Pumping Station Crpna stanica Teča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

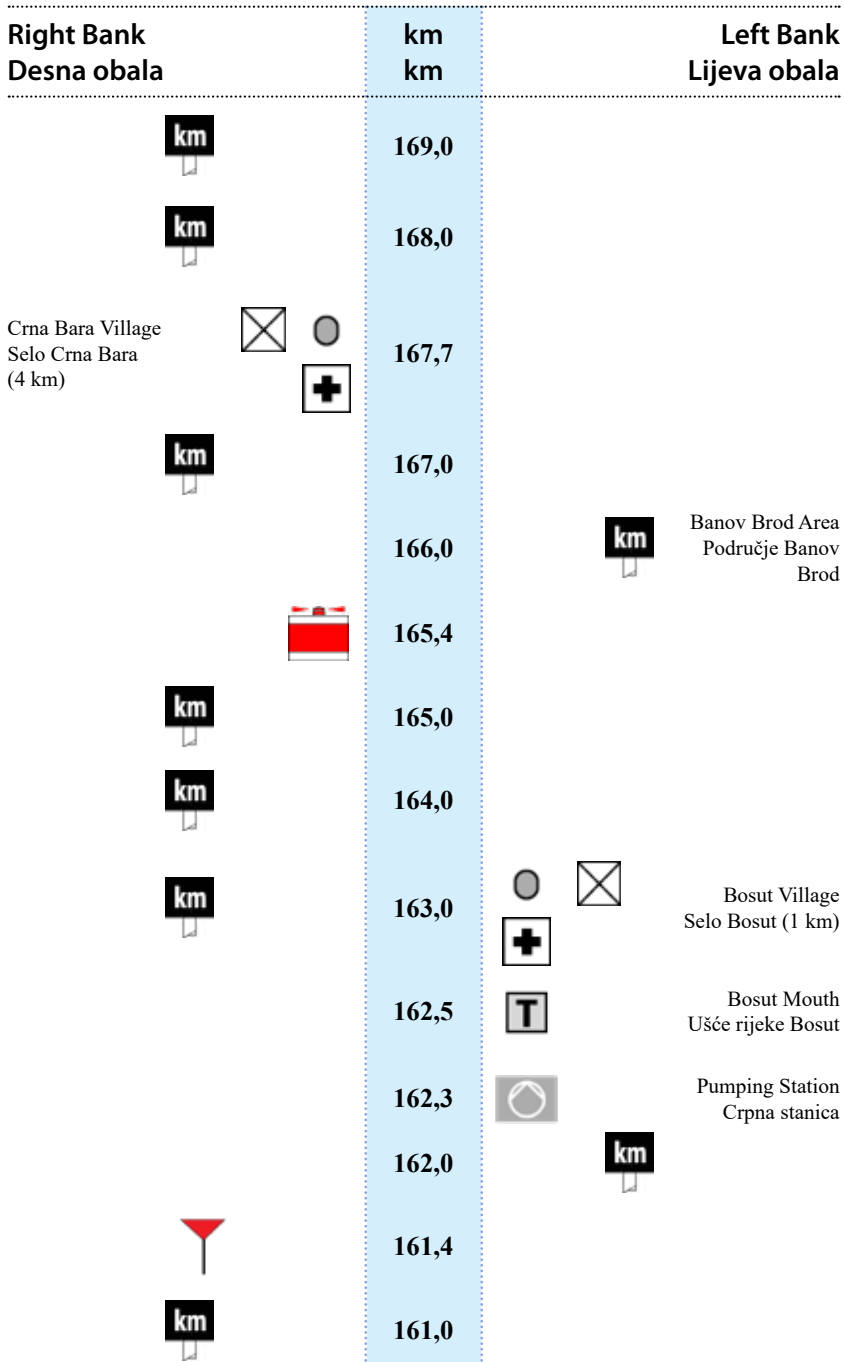


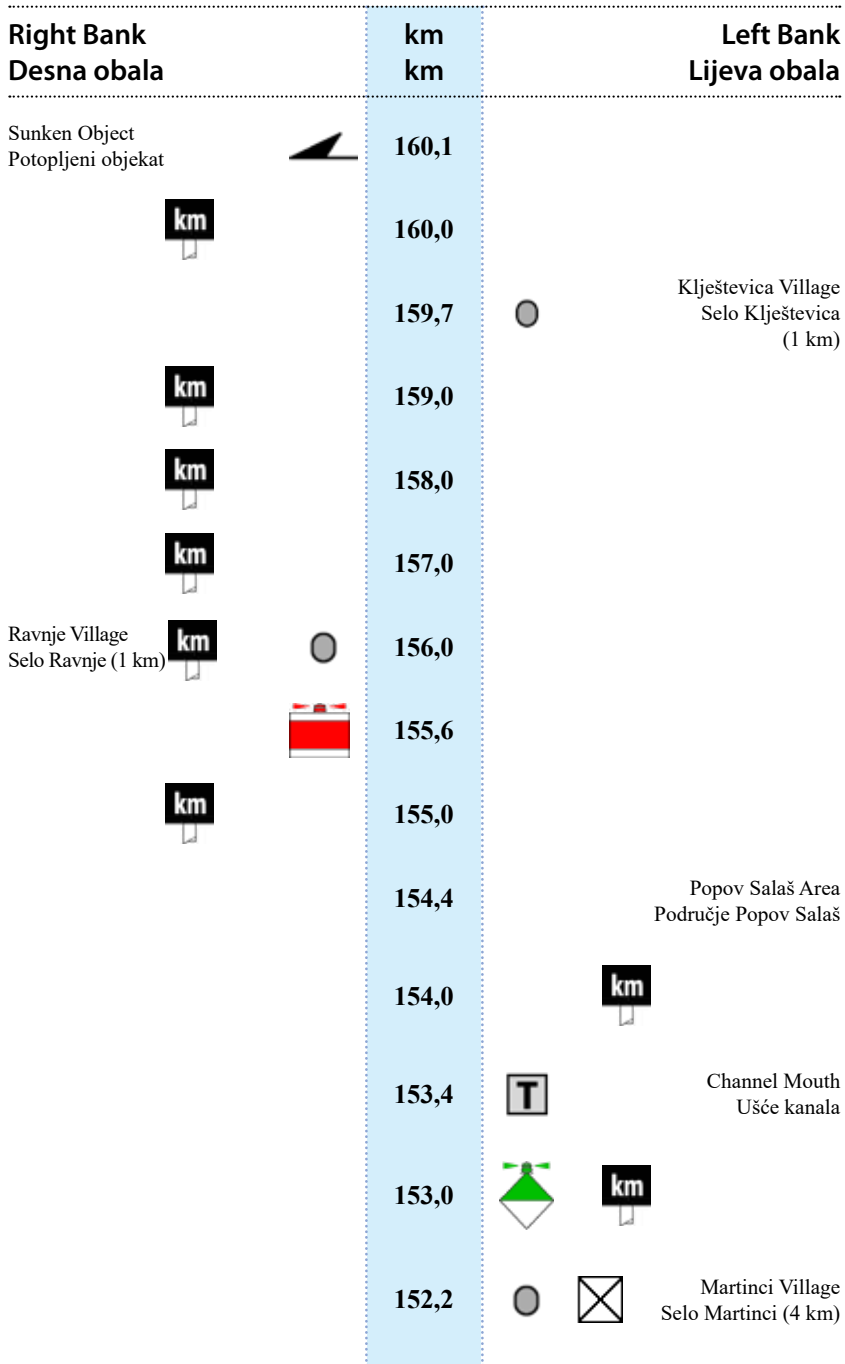


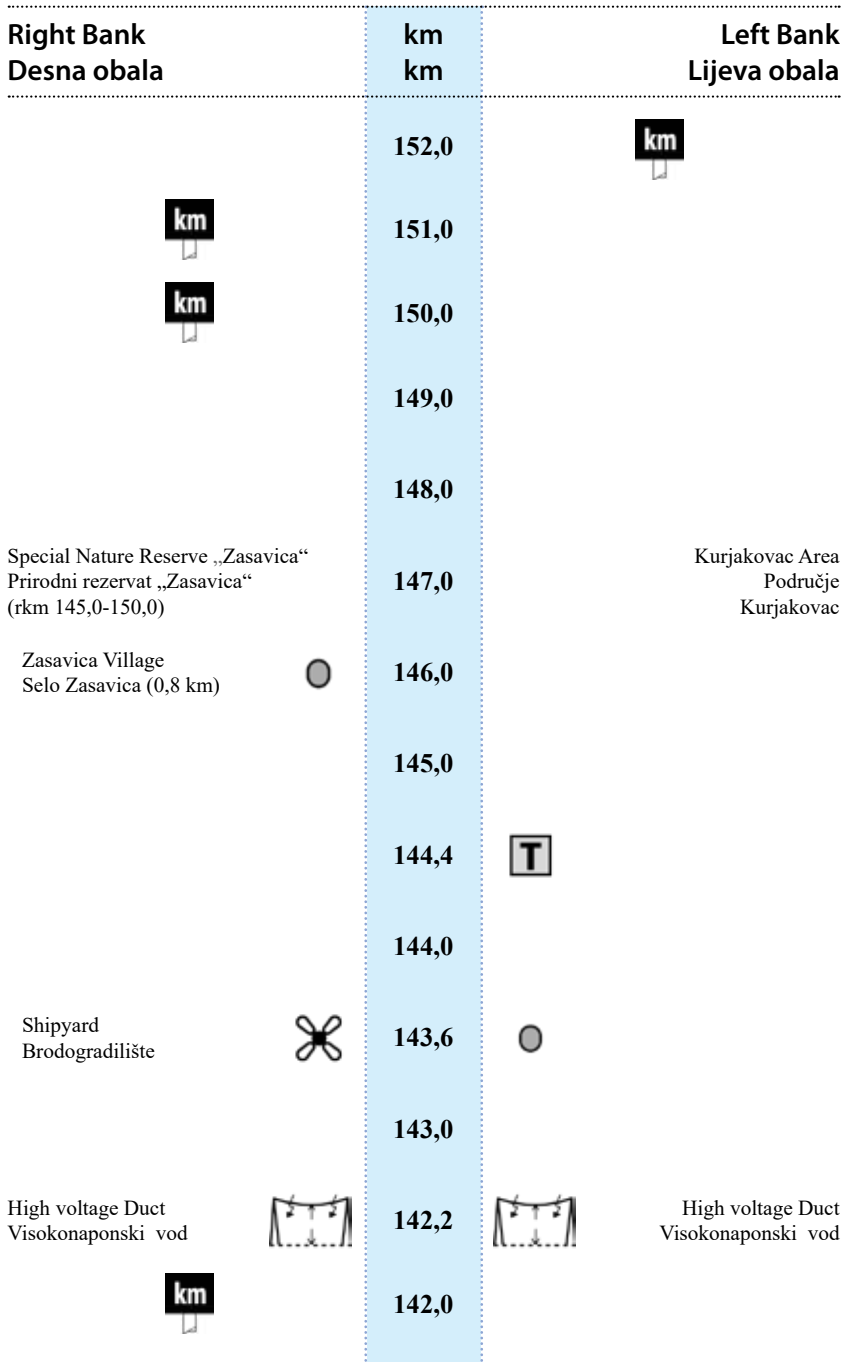


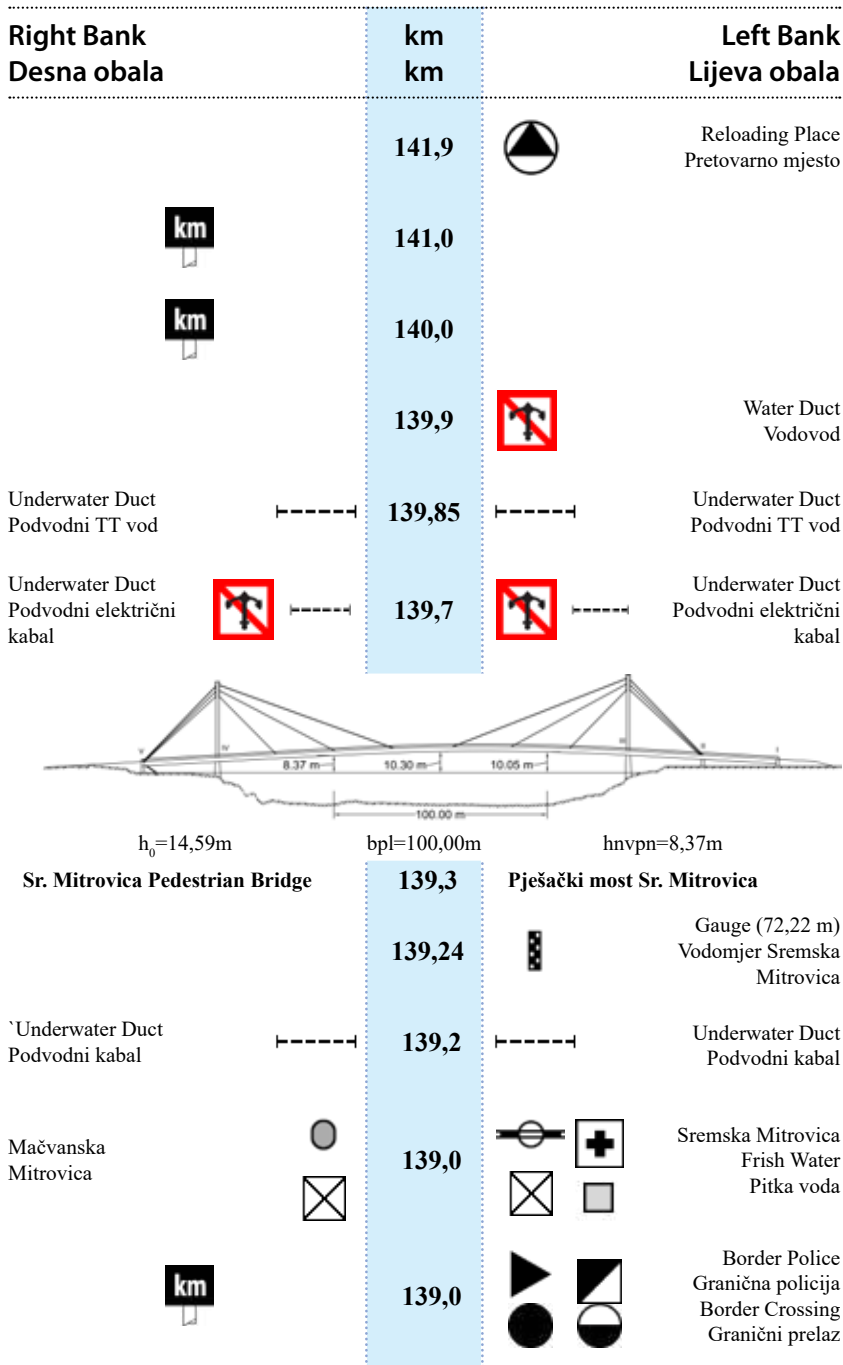
Right Bank Desna obala	km km	Left Bank Lijeva obala
Road Cross Border BiH-SRB Cestovni granični prelaz BiH-SRB	183,3	Road Cross Border-SRB BiH Cestovni granični prelaz SRB-BiH
	183,0	km
	182,0	km
	181,0	km
km	180,0	
	179,7	
	179,5	Rača Sector- Entrey Sektor Rača-ulaz
	179,2	 Signal Spot (out of Function)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

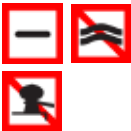








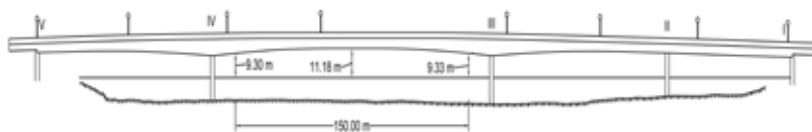








Right Bank Desna obala	km km	Left Bank Lijeva obala
	138,9	
Underwater Optical Duct Podvodni optički kabal	138,85	Underwater Optical Duct Podvodni optički kabal
	138,8	
Bogaz Channel Mouth Ušće kanala Bogaz	138,7	
Noćajski Salaš Village Selo Noćajski salaš (1,7 km)	138,6	Underwater Duct Podvodni kabal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



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


















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

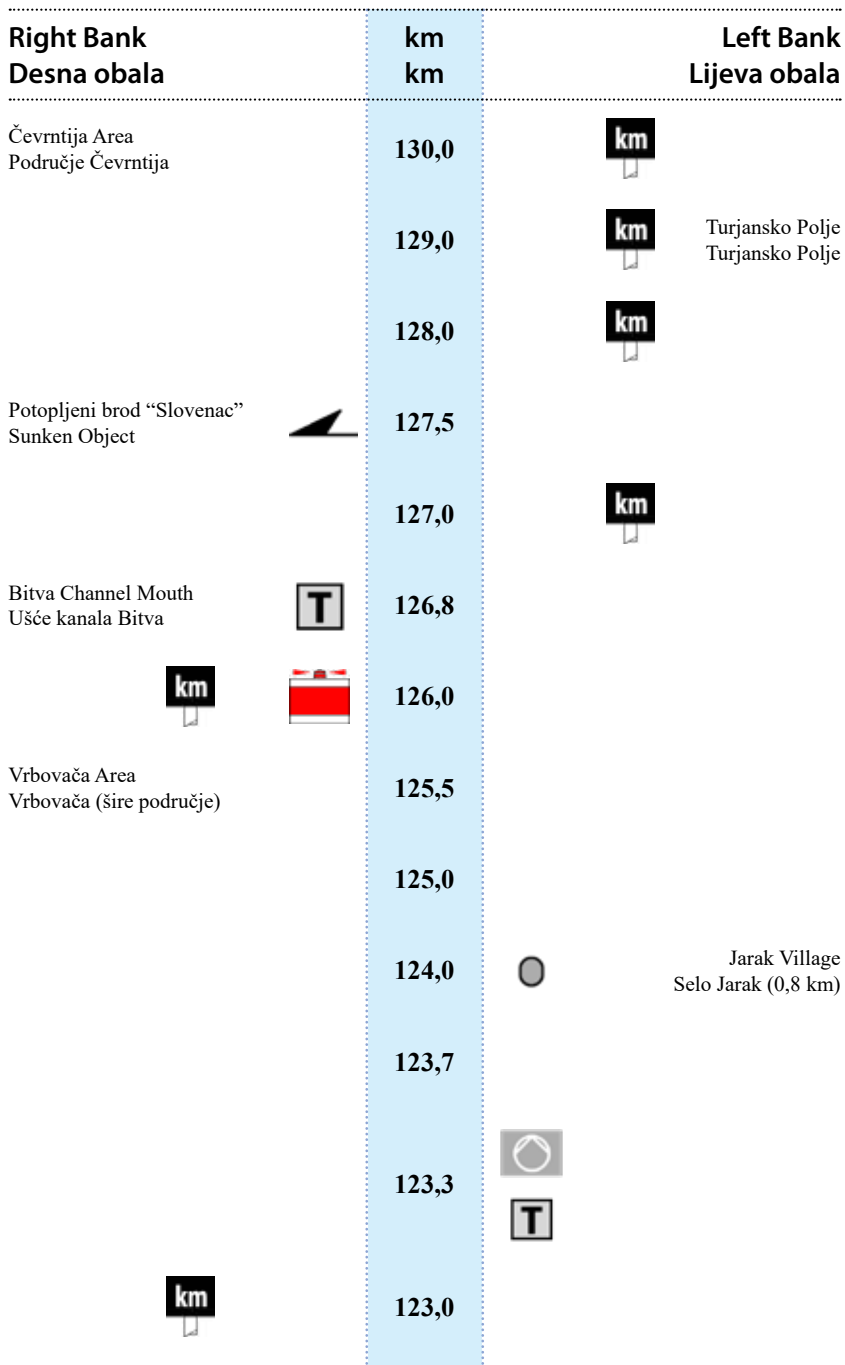
$h_{nvpn}=9,30\text{m}$

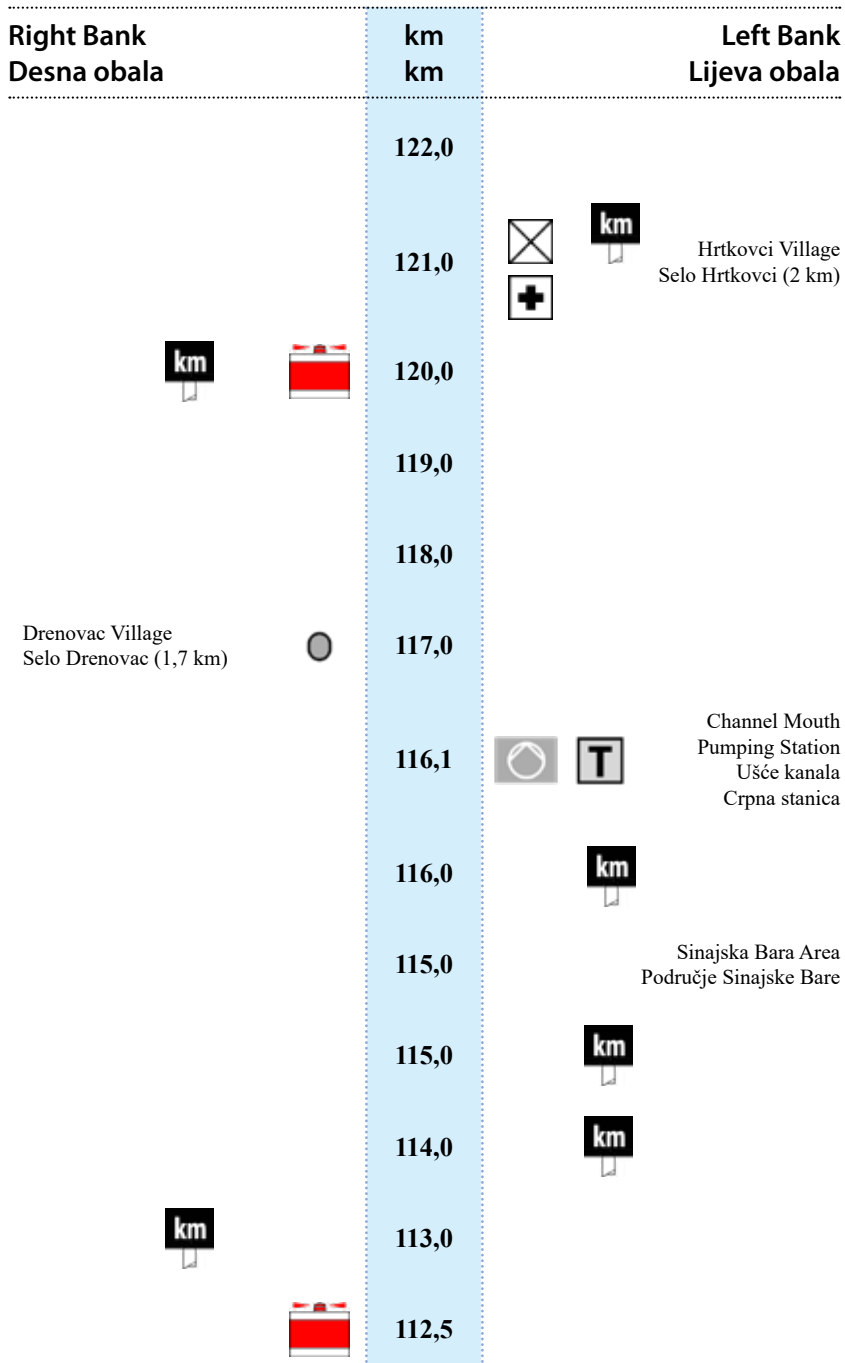
Sremska Mitrovica Road Bridge

136,6

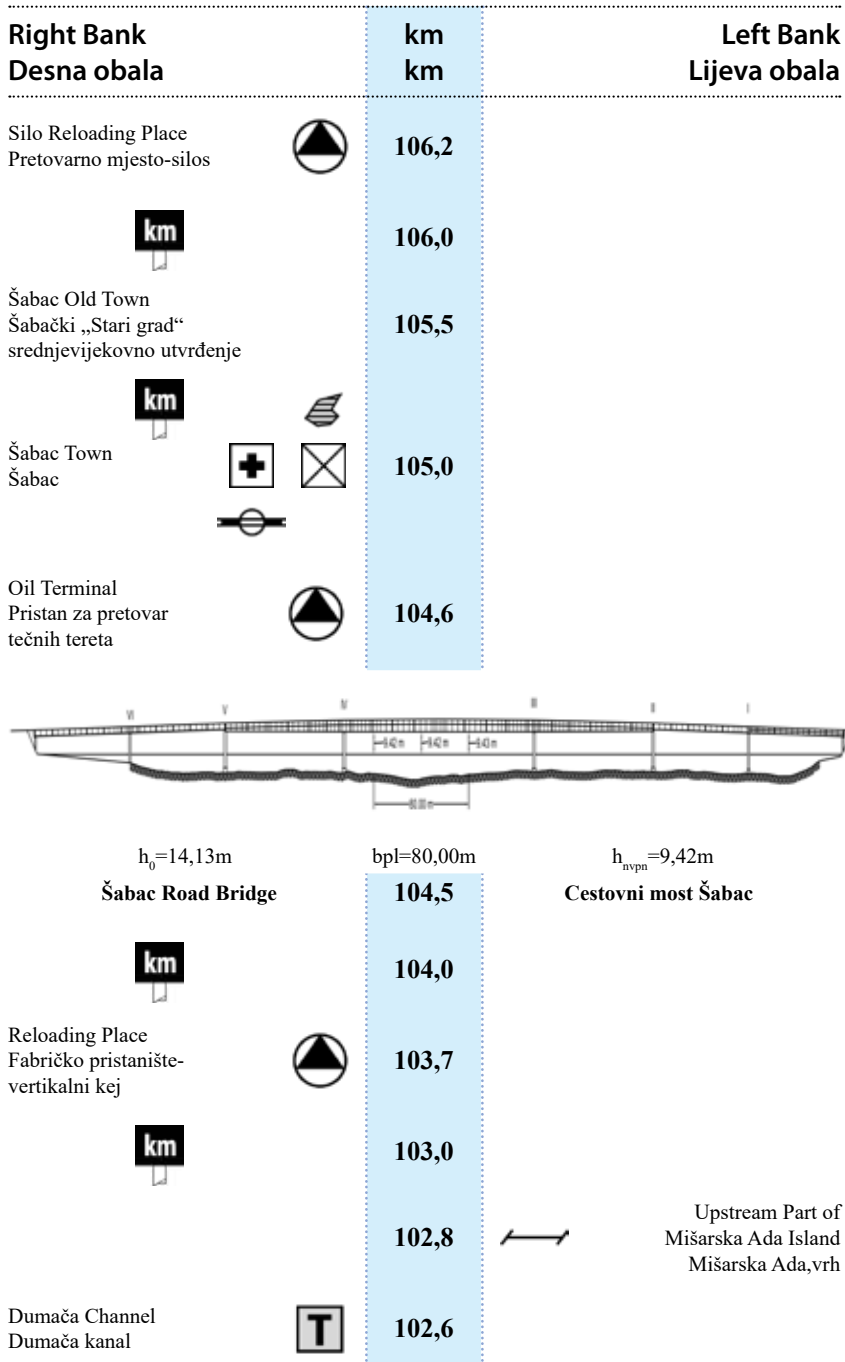
Cestovni most Sremska Mitrovica

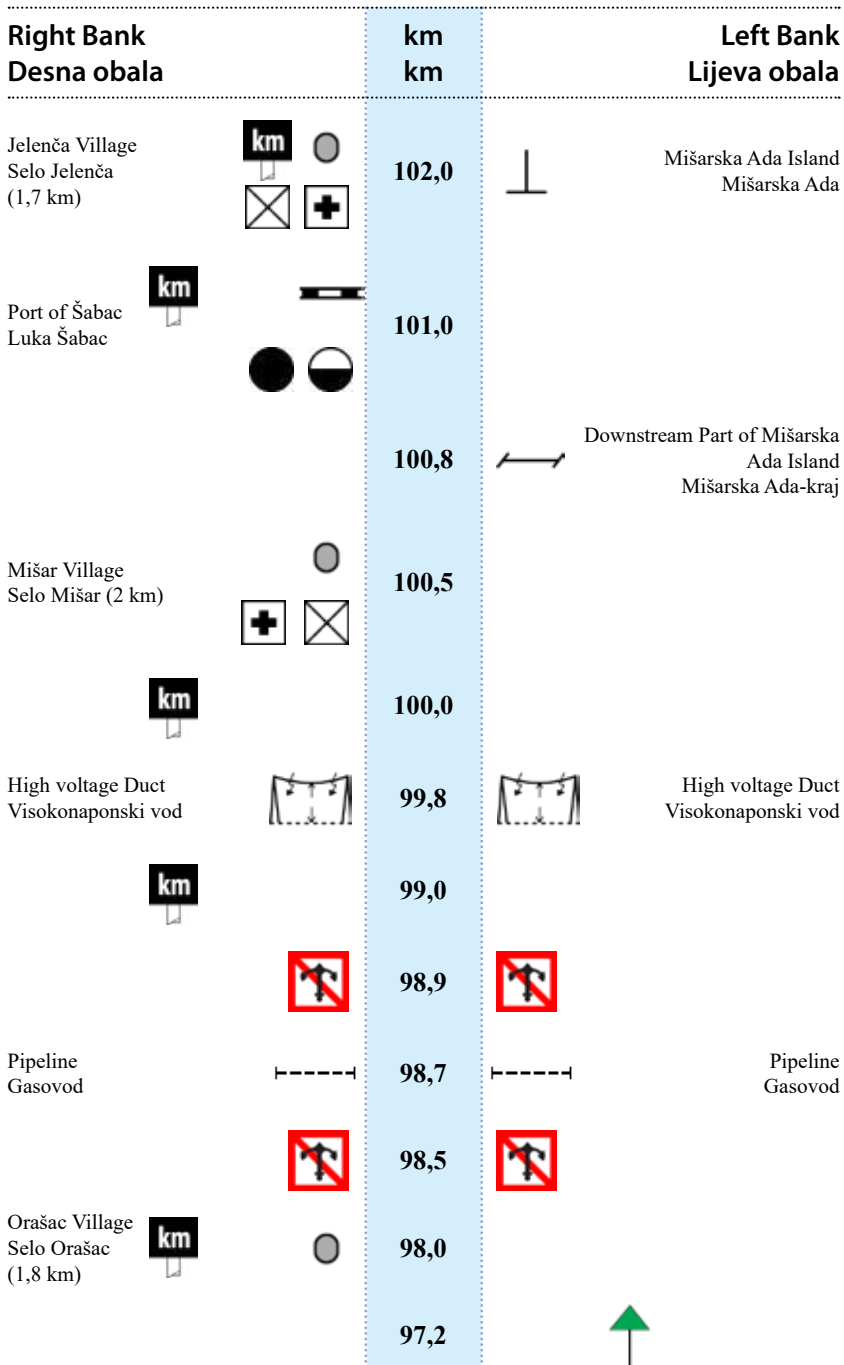
Right Bank Desna obala	km km	Left Bank Lijeva obala
	136,0	
	135,8	
	135,7	  
	135,0	  Winter Shelter Zimsko sklonište (rkm 138,5-138,1)
	134,8	
	134,6	 Reloading Place Pretovarno mjesto/kosi kej-fabrika celuloze
	134,4	 
	134,0	 
	133,0	
	132,0	
	131,1	Memorial Site „Leget“ Spomen obilježje „Leget“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










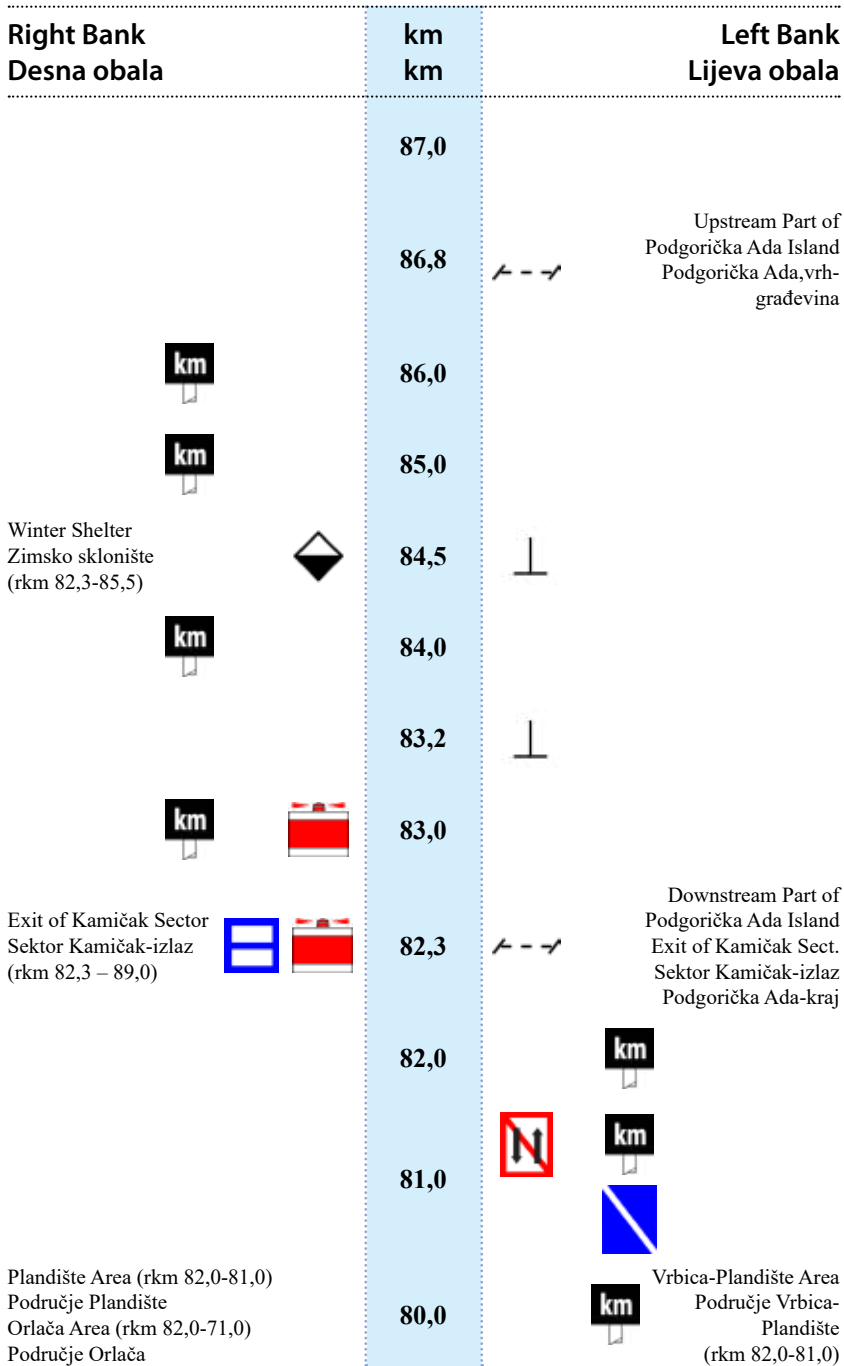


Right Bank Desna obala	km km	Left Bank Lijeva obala
	112,0	
	111,0	
Drenovac Channel Sector Sektor Drenovački kanal (rkm 111,7-107,0)	110,0	
Ex Military Ferry berthing Place Nekadašnja vojna rampa	109,8	
	109,0	
Koča Channel Kočin kanal	108,8	
	108,0	
	107,7	
	107,0	
$h_0=11,26\text{m}$ Šabac Railway Bridge	107,0	$h_{nvpn}=6,46\text{m}$ Željeznički most Šabac
Gauge (72,61 mm) Vodomjer Šabac	106,28	



































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 Lijeva 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 Utovarno mjesto Debrc	67,0	
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	60,0	 Mozerova Ada Island Mozerova Ada
	59,1	 Downstream Part of Mozerova Ada Island Mozerova Ada-kraj
	59,0	 59,0
Upstream Part of Skelska Ada Island Skelska Ada vrh	 58,5	
	58,0	 58,0
Skelska Ada Island Skelska Ada	 57,3	 57,3
Winter Shelter Zimsko sklonište (rkm 55,9-57,1)	 57,0	 57,0
Ferry Skelski prelaz	 56,7	 Obedska Bara Channel Mouth Kanal iz Obedske Bare

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

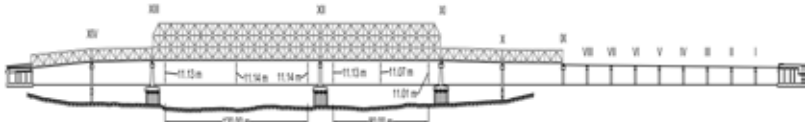
Right Bank Desna obala		km km		Left Bank Lijeva obala
High voltage Duct Visokonaponski vod		51,5		High voltage Duct Visokonaponski vod
		51,45		Water Supply Facility Reni bunar
Pumping Station Crpna stanica Krtinski kanal	 	51,4		
		51,0		
		50,95		Water Supply Facility Reni bunar
High voltage Duct Visokonaponski 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 Lijeva 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



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

$bpl=1 \times 80,00\text{m}/1 \times 120,00\text{m}$

$h_{nvpn}=11,01\text{m}$

Road-Pipeline Bridge Obrenovac

42,53

Drumsko-toplodalekovodni 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

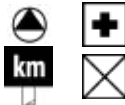


42,0



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

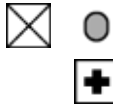


41,0



40,0

Zabrežje Village
Selo Zabrežje
(0,8 km)

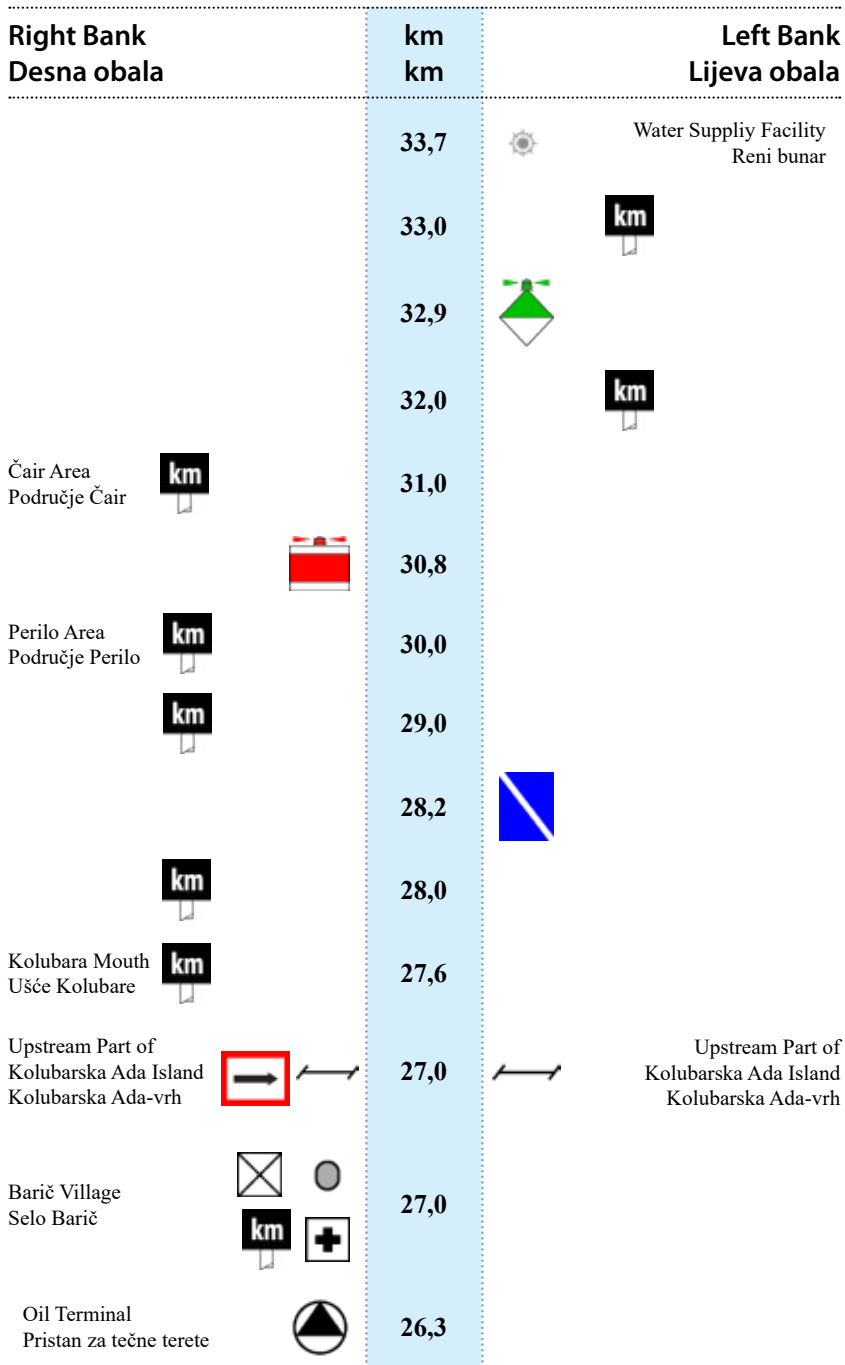


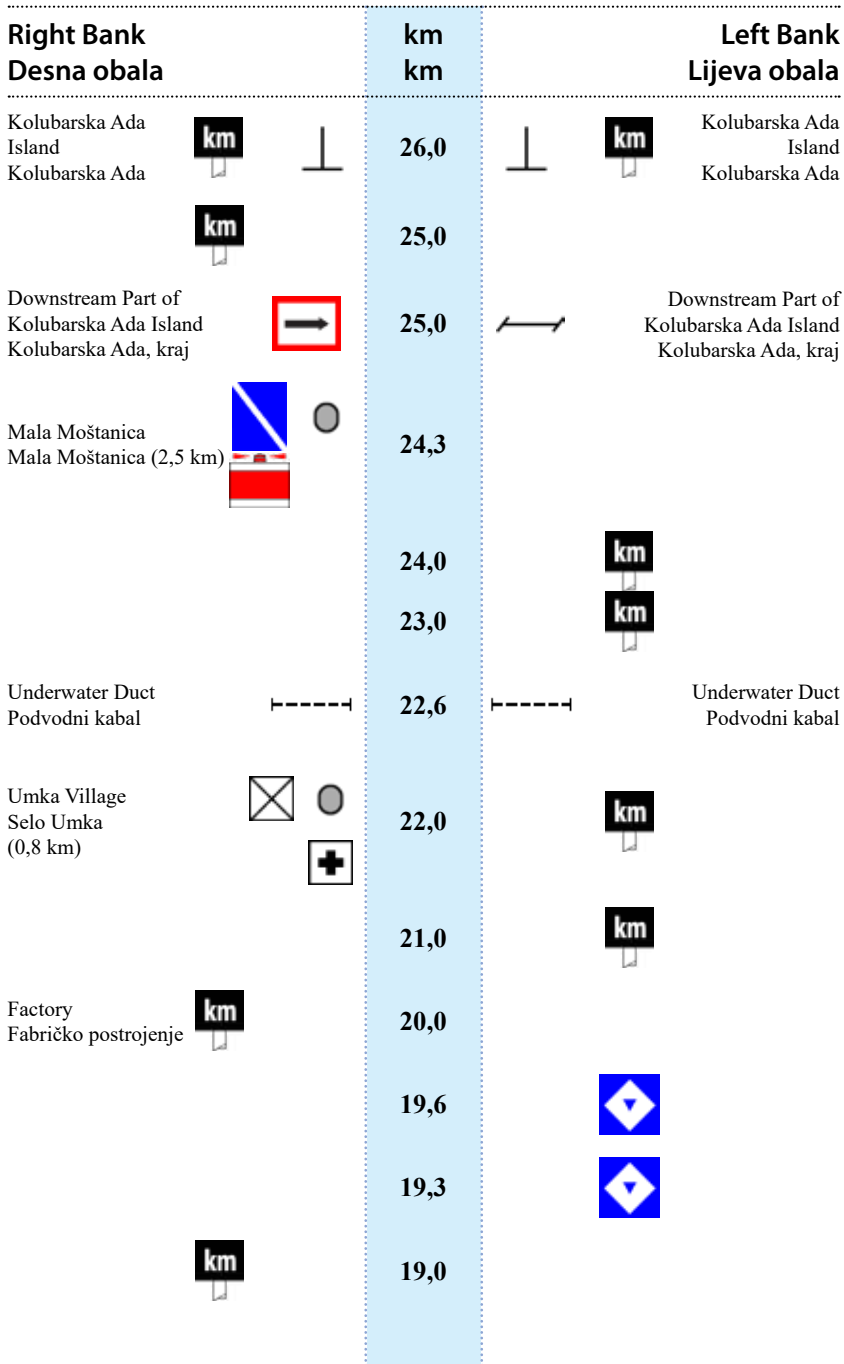
39,3























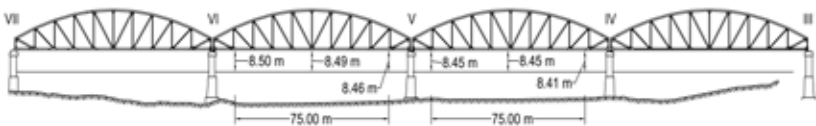
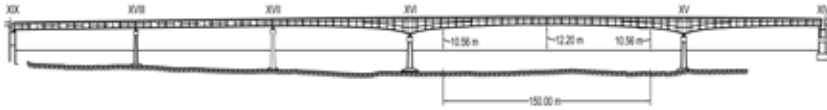
39,0

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































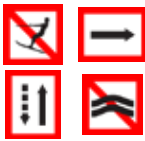









Right Bank Desna obala	km km		Left Bank Lijeva obala
	18,7		Water Supply Facility Reni bunar
	18,3		Water Supply Facility Reni bunar
	18,0		
Oil Terminal Istovarno mjesto naftnih derivata	18,0	 	
	17,9		Water Supply Facility Reni bunar
	17,6		
	17,5		Water Supply Facility Reni bunar
Terminal Pristan	17,2		Water Supply Facility Cjevasti bunar
	17,0		Water Supply Facility Cjevasti bunar
	17,0		
	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 Lijeva obala
	16,3	●	Water Supply Facility Cjevasti bunar
	16,2	⚓	
	16,1	●	Water Supply Facility Cjevasti bunar
	16,0	km	
	15,9	●	Water Supply Facility Cjevasti bunar
	15,7	●	Water Supply Facility Cjevasti bunar
	15,6	●	Water Supply Facility Cjevasti bunar
 <p>$h_0=14,44\text{m}$ Ostružnica Railway Bridge</p>	<p>bpl=2 x 75,00m 15,4</p>	<p>h_{nv}pn=8,41m Željeznički most Ostružnica</p>	
	15,3	⚙	Water Supply Facility Reni bunar
	15,0	km	
 <p>$h_0=16,58\text{m}$ Ostružnica Road Bridge</p>	<p>bpl=150m 15,0</p>	<p>h_{nv}pn=10,56m Cestovni most Ostružnica</p>	
	14,95	⚙	Water Supply Facility Reni bunar

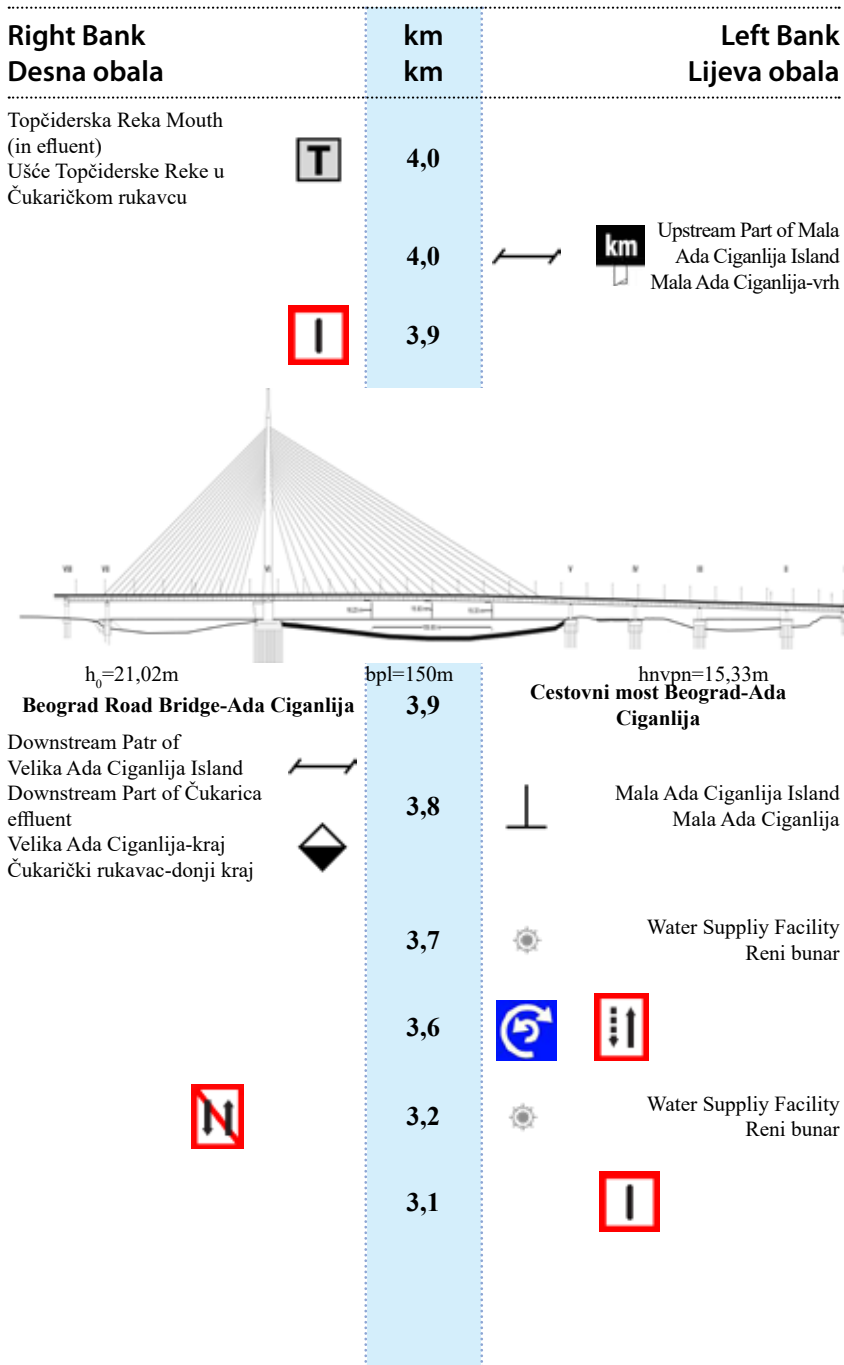


Right Bank Desna obala		km km		Left Bank Lijeva obala
Shipyards Brodogradilište		12,3		
Water Supply Facility Reni bunar		12,1		
		12,05		Water Supply Facility Reni bunar
		12,0		
Water Supply Facility Reni bunar		11,95		
Water Supply Facility Reni bunar		11,7		Water Supply Facility Reni bunar
		11,35		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		High voltage Duct Visokonaponski vod
		9,0		 Water Supply Facility Cjevasti bunar
		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		 Water Supply Facility Cjevasti bunar

Right Bank Desna obala	km km		Left Bank Lijeva 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		
	6,25		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	 	 Water Supply Facility Reni bunar
Underwater Duct Podvodni električni vod		5,3		Underwater Duct Podvodni električni vod
		5,25		Water Supply Facility Reni bunar
		5,0	 	 Liquid cargo reloading place Pristan za tečne terete Beogradske toplane
		5,0		
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		Shipyards (in effluent) Brodogradilište i radionica u Bežanijskom rukavcu



Right Bank
Desna obala

km
km

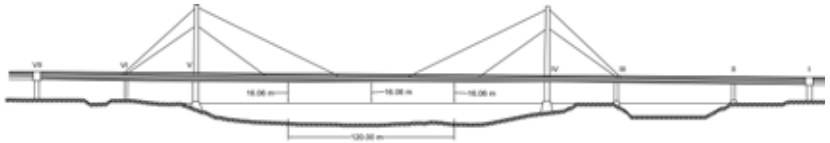
Left Bank
Lijeva obala



3,0



Downstream Part of
Mala Ada Ciganlija Island
Entry of Effluent
Mala Ada Ciganlija/
kraj-ulaz u
Bežanijski rukavac



$h_0=21,72\text{m}$

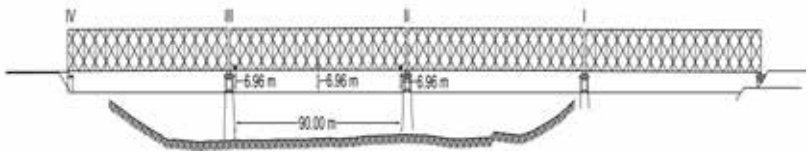
Beograd New Railway Bridge

bpl=120,00m

3,0

$h_{\text{nvpn}}=16,06\text{m}$

Željeznički novi most Beograd



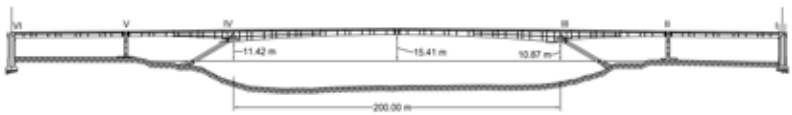
$h_0 = 12,62\text{m}$

Beograd Old Railway Bridge

bpl = 90,00m

2,73

Željeznički stari most Beograd



$h_0=16,52\text{m}$

Gazela Road-Tram Bridge

bpl=200,00

2,5

$h_{\text{nvpn}}=6,96\text{m}$

Cestovni most-Gazela

2,3



Water Supply Facility
Reni bunar

2,0



Belgrade Railway Station
Željeznička stanica Beograd

Water Supply Facility
Reni bunar

1,7

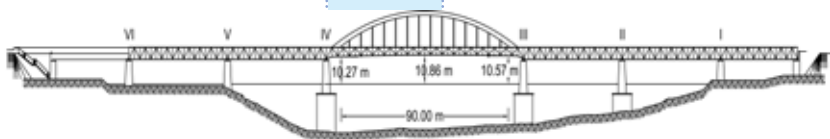


Water Supply Facility
Reni bunar

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



$h_0 = 15,89\text{m}$

$bpl = 90,00\text{m}$

$hnvpn = 10,27\text{m}$

Belgrade Road-Tram Bridge

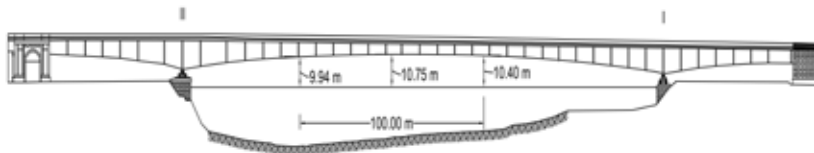
1,43

Cestovno-tramvajski most Beograd

Police Terminal
Pristan riječne policije



1,1



$h_0 = 15,55\text{m}$

$bpl = 100\text{m}$

$hnvpn = 9,94\text{m}$

Road Bridge Belgrade
Brankov Bridge

1,0



Cestovni most Beograd
Brankov most



Belgrade Gauge (68,28 mm)
Vodomjer Beograd



0,9

0,82

0,8



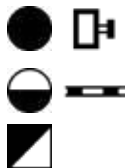
Water Supply Facility
Reni bunar



0,7



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



0,7

0,5



Water Supply Facility
Reni bunar

Terminal
Savsko pristanište-vertikalni kej

0,4



0,2



Belgrade City
Grad Beograd



0,0

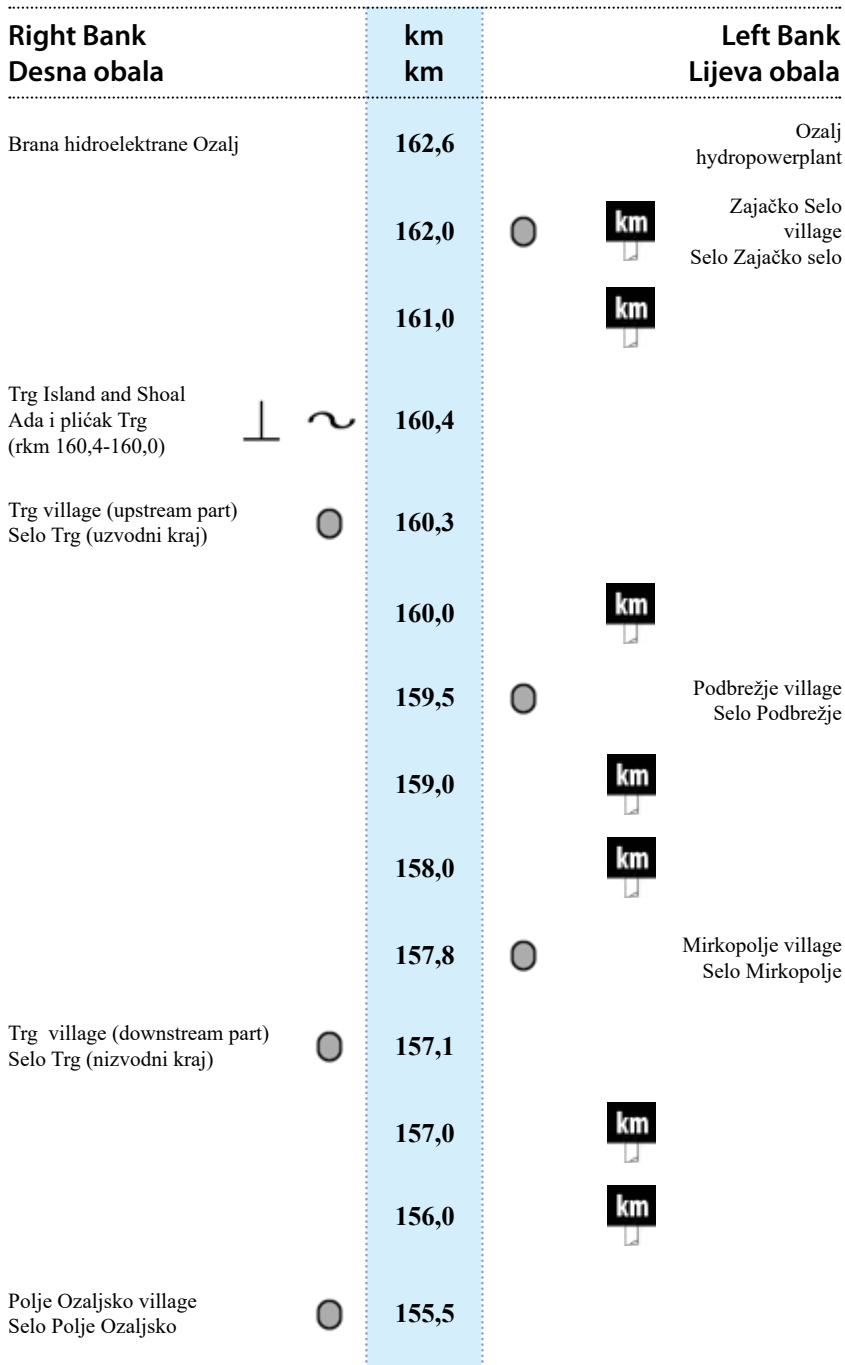


Sava Mouth
Ušće Save

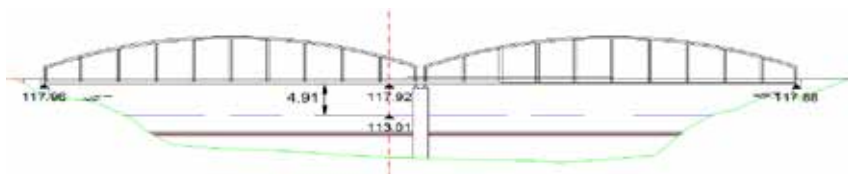
Right Bank of
Danube River
Desna obala
Dunava rkm 1169,9



V
KUPA RIVER
RIJEKA KUPA



Right Bank Desna obala	km km	Left Bank Lijeva obala
	155,0	km
Treščerovac village Selo Treščerovac	154,5	
	154,0	km
	153,0	km



$h_0=5,56m$
Railway bridge Zorkovac

Bpl=2x46m
152,2

h_{hvpn}=4,91m
Željeznički most Zorkovac

Selo Zorkovac na Kupi	152,0	km	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
Lijeva obala

Gornje Pokuplje village
Selo Gornje Pokuplje

147,8

Mahično village
Selo Mahično



$h_0=6,57m$

$bpl=30,00m$

$hnvnp=4,14m$

Road bridge Mahično

147,8

Cestovni most Mahično

147,0



Dobra Mouth
Ušće Dobre



146,5

146,0



Kupa-Kupa Canal
Entrance
Ulaz u oteretni kanal
Kupa-Kupa

Gauge
Vodomjer Brodarci
(108,07 mm)



145,8

Shoal
Plićak
(rkm 145,2- 148,0)



145,2

145,0



Brodarci village
Selo Brodarci

144,4

Donje Pokuplje village
Selo Donje Pokuplje



$h_0=4,86m$

$bpl=30,00m$

$hnvnp=2,49m$

Road bridge Brodarci

144,4

Cestovni most Brodarci

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala

Shoal
Plićak Novaki
(rkm 143,3-142,4)



144,0



143,3

143,2

Kaštel area
Lokalitet Kaštel

143,0



$h_0=6,22\text{m}$

Road bridge Hrnetić

$bpl=27,89\text{m}$

142,1

$h_{nvpn}=2,77\text{m}$

Cestovni most Hrnetić

142,0



141,0



$h_0=20,55\text{m}$

Road bridge „Viadukt Drežnik“

$bpl=70,00\text{m}$

140,9

$h_{nvpn}=16,55\text{m}$

Cestovni most „Viadukt Drežnik“

140,0



Dubovac

139,5

Karlovac rowing club
Veslački klub Karlovac

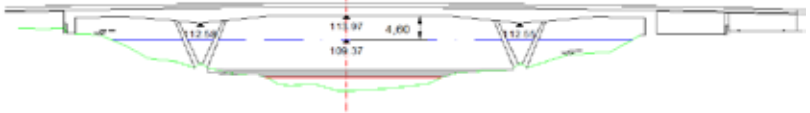
139,0



Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



$h_0=9,66\text{m}$

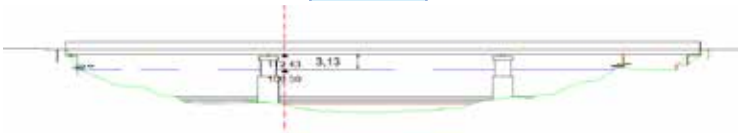
bpl=53,00m

hnpvn=4,60m

Road bridge Alessandrija

138,7

Cestovni most Alessandrija



$h_0=8,41\text{m}$

bpl=40,00m

hnpvn=3,13m

Railway bridge Karlovac

138,2

Željeznički most Karlovac



$h_0=8,89\text{m}$

bpl=72,00m

hnpvn=3,52m

Road bridge Karlovac

138,1

Cestovni most Karlovac

Karlovac



138,0

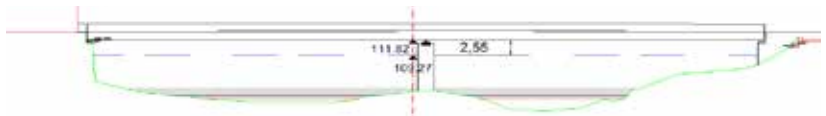


Karlovac

137,8



Gauge
Vodomjer Karlovac
(103,17 mm)



$h_0=8,10\text{m}$

bpl=2x47,00m

hnpvn=2,55m

Road bridge Banijski

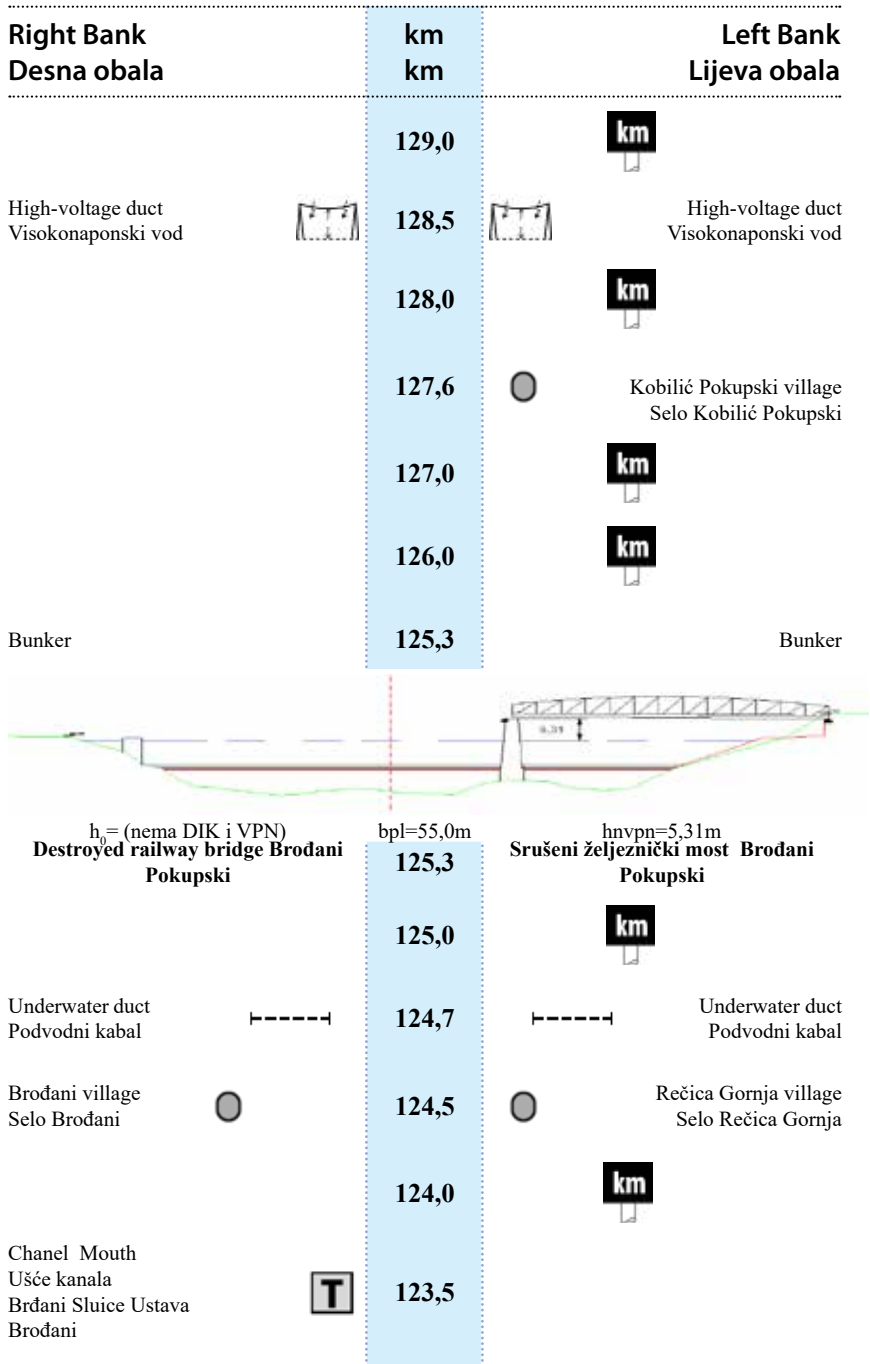
137,7















Cestovni most Banijski

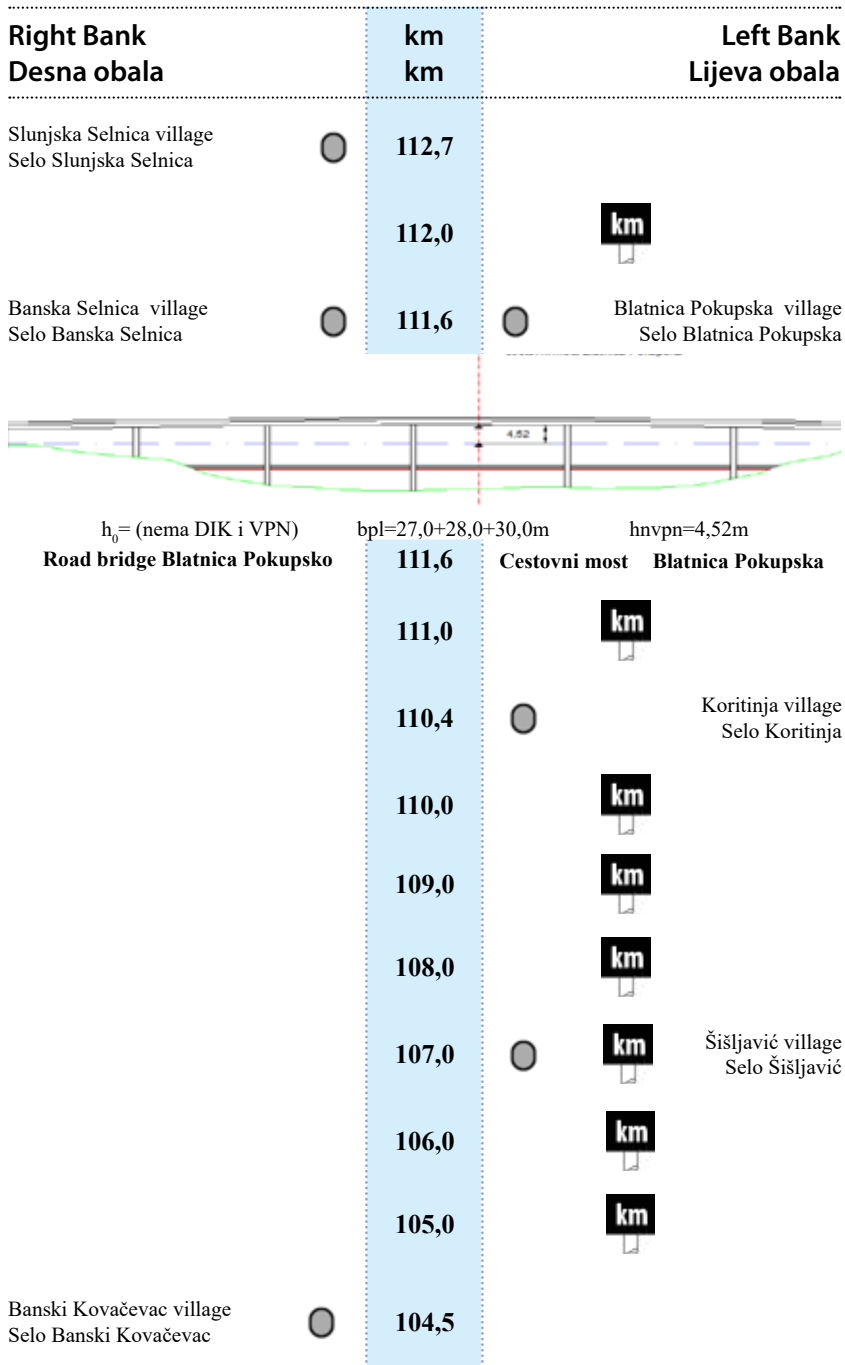
137,0



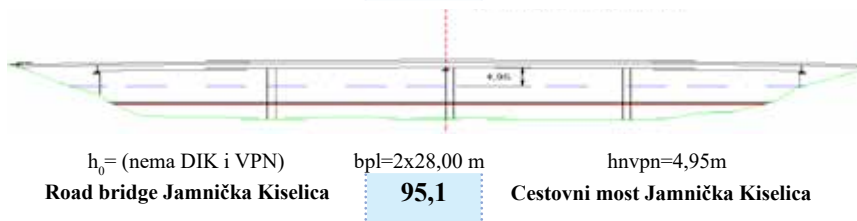
Right Bank Desna obala	km km	Left Bank Lijeva obala
High-voltage duct Visokonaponski vod	136,0	High-voltage duct Visokonaponski vod
	135,0	Gradac settlement Prigradsko naselje Gradac
	134,0	
	133,6	Vodostaja settlement Naselje Vodostaja
Korana Mouth Ušće Korane	133,2	
	133,0	
	132,0	
Water treatment plant Uređaj za prečišćavanje	131,8	
	131,5	Donje Mekušje village Selo Donje Mekušje
	131,0	
	130,2	Husje village Selo Husje
	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 Lijeva 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		

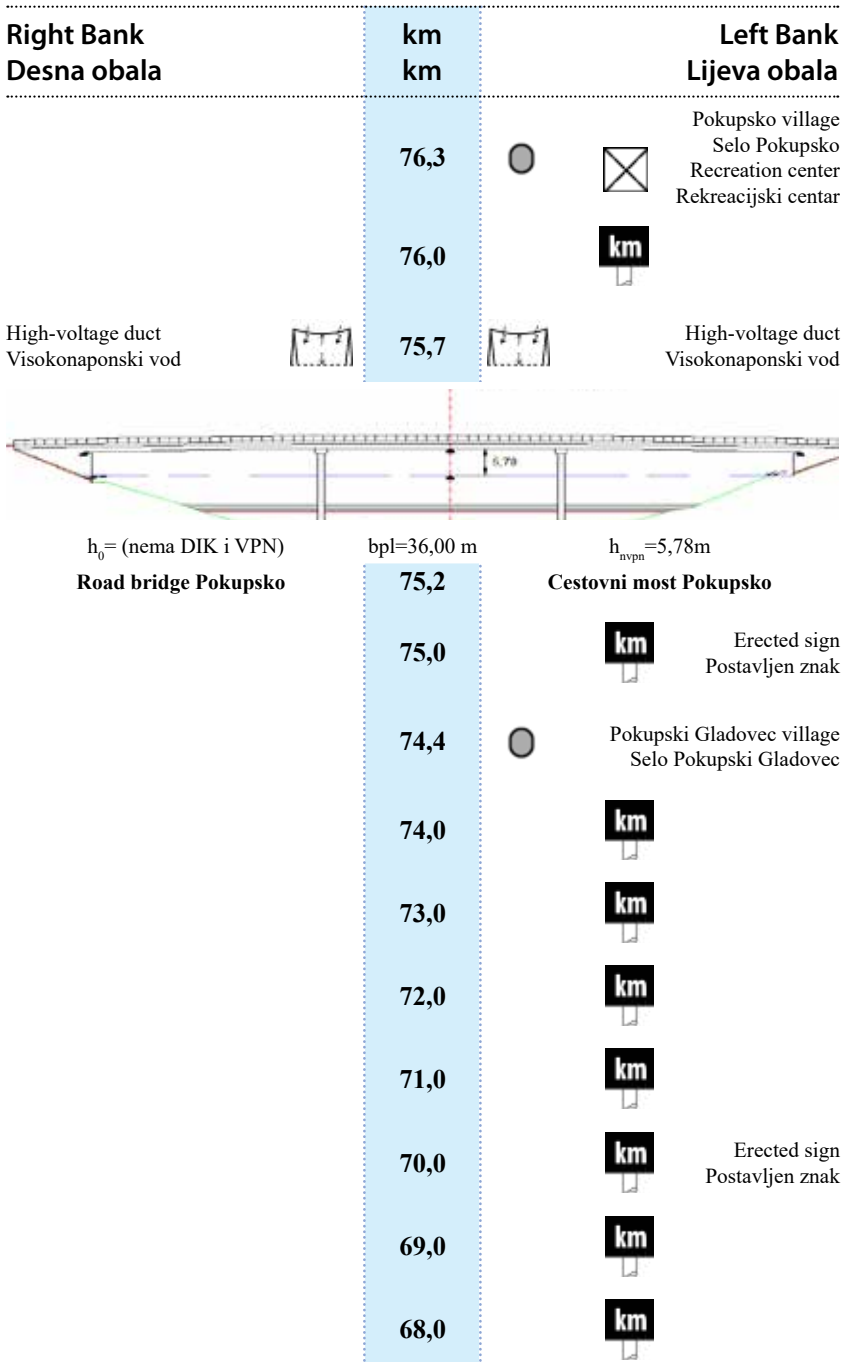



















Right Bank Desna obala	km km	Left Bank Lijeva obala
	104,0	km
	103,0	km
	102,4	Former confluence of Kupčina Staro ušće Kupčine
	102,0	km
	101,0	km
	107,7	T Mouth of Kupa-Kupa Chanel Ušće kanala Kupa-Kupa
	100,0	km
	99,0	km
Novo Selo Lasinjsko village Selo Novo Selo Lasinjsko	98,7	
	98,0	km
	97,0	km
	96,0	

































Right Bank Desna obala		km 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		 Lijevi Štefanki village Lijevi Štefanki
		86,0		
		85,0		











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



















Right Bank Desna obala	km km	Left Bank Lijeva obala
	58,0	
	57,0	
	56,0	 
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/Plićak	  50,5	
Curve Krivina Farkašić	50,0	 Erected sign Postavljen znak

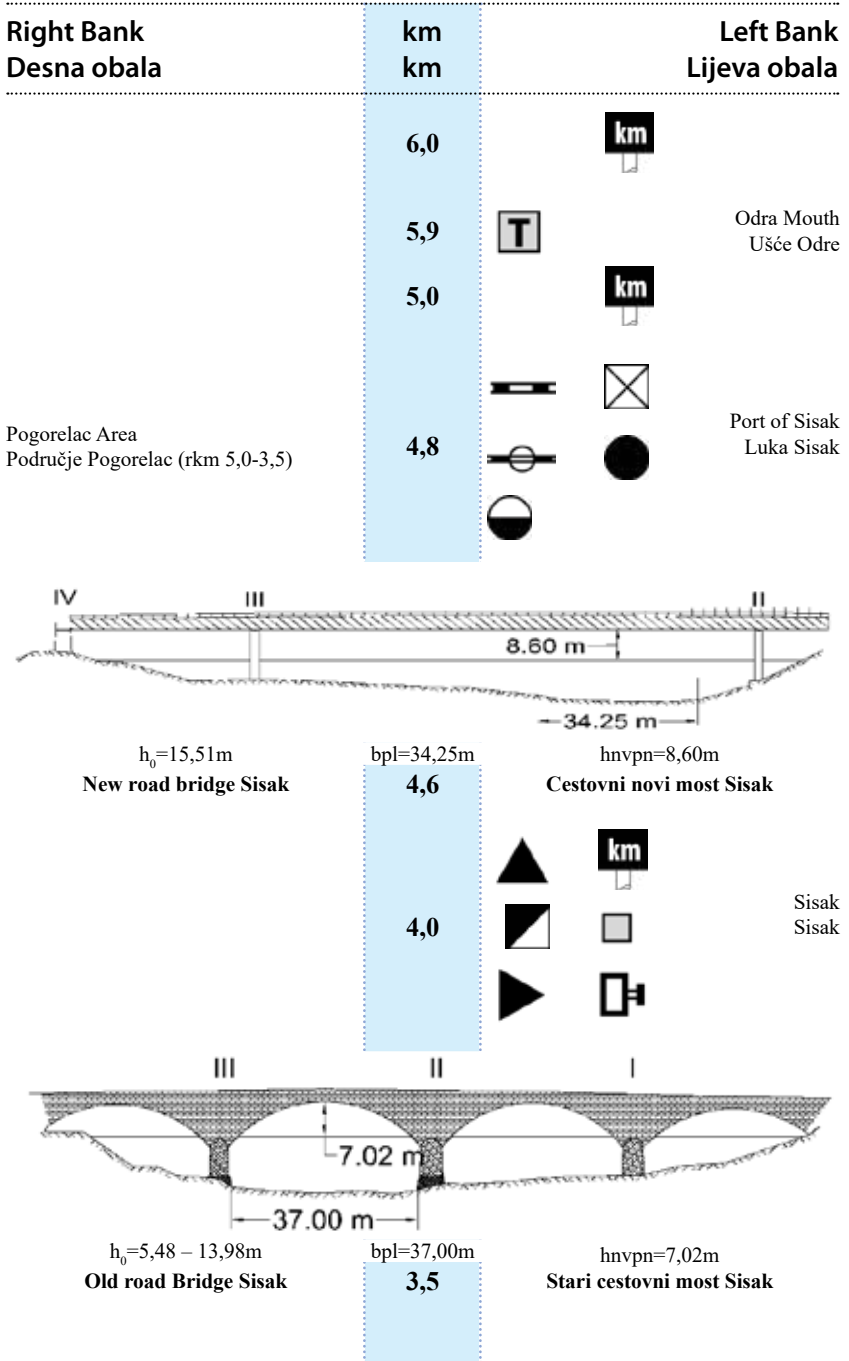
Right Bank Desna obala	km km		Left Bank Lijeva obala
	49,5		Stari Farkašić village Selo Stari Farkašić
	49,0		
	48,8		Gauge Vodomjer Farkašić (93,82 mm)
	48,0		
	47,7		Stari Brod village Selo Stari Brod
	47,0		
	46,5		Stari Brod cottage settlement Vikend naselje Stari Brod
	46,0		
	45,0		 Erected sign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

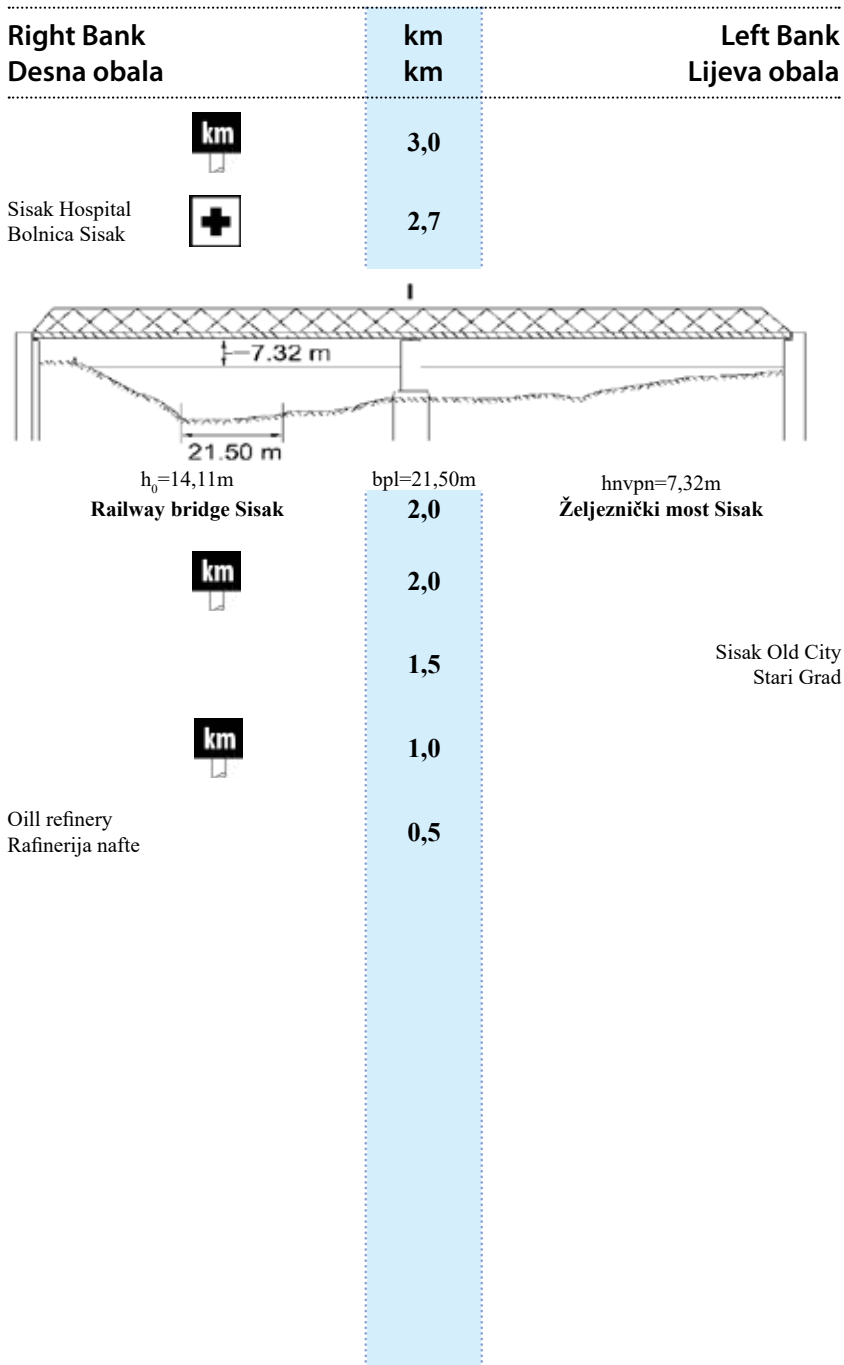
Right Bank Desna obala	km km	Left Bank Lijeva obala
	42,0	
Shoal Plićak	41,4	
	41,0	
Erected sign Postavljen znak	40,0	
	39,0	
Curve Krivina Žažinski Bok	38,8	
	38,5	 Žažina village Selo Žažina
	38,0	
	37,0	
	36,0	
Curve Krivina Gorički Bok	35,7	 Mala Gorica village Selo Mala Gorica
	35,0	 Erected sign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



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

Right Bank Desna obala		km km		Left Bank Lijeva obala
		14,0		
		13,0		
Shoal Plićak 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 Plićak 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





VI
DISTANCE BETWEEN LARGE CITIES
PREGLED UDALJENOSTI VEĆIH GRADOVA

