



HARTA PE HÂRTIE

Canal Dunăre Marea Neagră și Canal Poarta Albă Midia
Năvodari

*Danube Black Sea Canal and
Poarta Alba Midia Navodari Canal*

PAPER CHART



Compania Națională Administrația Canalelor Navigabile S.A. /
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Introducere

Cea de-a doua ediție a Hărții pe hârtie a Canalului Dunăre Marea Neagră și Poarta Albă Midia Năvodari conține informații actualizate cu privire la poziția șenalului navigabil, a sistemului de semnalizare costieră, a distanțelor la 1000 m pe axa canalului, secțiuni transversale, dane, obiecte de infrastructură pe calea navigabilă (ecluze, poduri, linii electrice etc), așezări principale de-a lungul Canalului Dunăre Marea Neagră și Canalului Poarta Alba Midia Navodari, stații de măsură nivel precum și informații de contact ale autorităților din România responsabile pentru administrarea Canalelor Navigabile.

Condiții de navigație pe CDMN și CPAMN

Lungimea Canalului Dunăre Marea Neagră între Dunăre la Cernavodă (km 299,3 pe fluviu) și Marea Neagră (acvatoriul portului Constanța Sud) este de 64,410 km.

Lungimea Canalului Poarta Alba Midia Navodari de la desprinderea din Canalul Dunăre – Marea Neagră, până în acvatoriul portului Midia este de 27,500 km, iar ramura de Est, prin lacul Tașaul (Năvodari) măsoară 5 km.

Pe canale, navigația se face simultan, în ambele sensuri (amonte și aval), cu viteze cuprinse între 8 și 9 km/oră.

Introduction

The second edition of the Danube Black Sea Canal and Poarta Alba Midia Navodari Paper Chart contains up-to-date information on the position of the fairway, waterway marking system, distance marks at 1000 m on the fairway axis, cross-sections, berths, infrastructure objects on the waterway (navigation locks, bridges, river training structures, power lines), main settlements along the Danube Black Sea Canal and Poarta Alba Midia Navodari Canal, gauging stations, as well as contact information of authorities in Romania responsible for administration of the Navigable Canals.

Navigation conditions on DBSC and PAMNC

The length of the Danube Black Sea Canal between Danube at Cernavoda (km 299.3 on the river) and the Black Sea (the aquarium of the Constanta South Port) is 64,410 km.

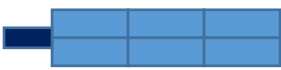
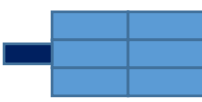
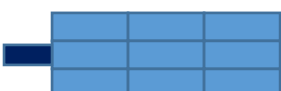
The length of the Poarta Alba Midia Navodari Canal from the junction with the Danube - Black Sea Canal until the aquarium of the Midia Port is 27,500 km, and the eastern branch, through Lake Tașaul (Năvodari), measures 5 km.

On the canals, navigation is done simultaneously, in both directions (upstream and downstream), with navigation speed between 8 and 9 km / hour.

Tabel 1 / Table 1: Clasa căilor navigabile CDMN și PAMN / Waterway classes of the DBSC and PAMNC

Sector Canal / Canal stretch	Secțiune / Chainage (rkm)	Clasa căii navigabile / Waterway class	Adâncime recomanda tă / Recomm- ended depth (m)	Lățime recomanda tă / Recomm- ended width (m)	Nota / Note
Canal Dunăre Marea Neagră / <i>Danube Black Sea Canal</i>	0.0 – 64.4	VIc	2.5	120 - 150	
Canal Poarta Albă Midia Năvodari / <i>Poarta Alba Midia Năvodari Canal</i>	0.0 – 27.5	VII	3.5	150 - 180	

Tabel 2 / Table 2: Caracteristici convoaie / Characteristic vessel convoys

Clasa de navigație / Waterway class	Impingătoare / Pushed convoy	Lungime covo / Convoy length (m)	Axa convoi / Convoy beam (m)	Pescaj/ Draught (m)	Înălțime de gabarit / Vertical clearance (m)	Nota / Note
VIc		270-280	22,8	2.5 - 4.5	9.10	
		195-200	33.0-34.2			
VII		275-285	33.0-34.2	2.5 - 4.5	9.10	

Sursa: AGN – Acordul european privind principalele căi navigabile interioare de importanță internațională, Rev.4, UNECE

Source: AGN – European Agreement on Main Inland Waterways of International Importance, Rev.4, UNECE

Clasificarea căilor navigabile interioare de importanță internațională și definiția convoiurilor de referință fac obiectul **Acordului european privind principalele căi navigabile interioare de importanță internațională (AGN)**. Pentru mai multe

The classification of inland waterways of international importance and a definition of referent convoys are subject of the **European Agreement on Main Inland Waterways of International Importance (AGN)**. For more info, please visit: www.unece.org

www:// informații, accesați: www.unece.org

Parametrii recomandați ai șenalului navigabil sunt definiți în **Regulamentele de exploatare a CDMN și PAMNC**. Pentru mai multe informații, accesați: <https://www.acn.ro/index.php/ro/regulament>

Recommended fairway parameters are defined in **Rules of Exploitation of the DBSC and PAMNC**. For more info, please visit: <https://www.acn.ro/index.php/ro/regulament>

Tabel 3 / Table 3: Stații de măsură nivele pe CDMN și PAMNC / Gauging stations on DBSC and PAMNC

Stația de măsură nivel / Gauging station	Senal / Chainage (rkm)	Nivel minim de navigație / Low Navigational Level (NMN / LNL)	Nivel maxim de navigație / High Navigational Level (NMaxN / HNL)	Pus în funcțiune în / Established in	Notă / Note
Agigea	1.7	600	800	2006	
Cernavoda	60.3	600	800	2006	
Navodari	1	100	200	2006	
Ovidiu	12.0	600	800	2006	

NMN (Nivel minim de navigație) – nivelul minim al apei pe întregul sector, definit în **Regulamentele de exploatare ale Canalului Dunăre Marea Neagră și Poarta Albă Midia Năvodari**

LNL (Low Navigation Level) – water level, at the whole navigable stretch of the canal, defined in **Rules of Exploitation of the Danube Black Sea Canal and Poarta Alba Midia Navodari Canal**

NMaxN (Nivel maxim de navigație) - nivelul maxim al apei pe întregul sector, definit în **Regulamentele de exploatare ale Canalului Dunăre Marea Neagră și Poarta Albă Midia Năvodari**

HNL (High Navigation Level) – water level, at the whole navigable stretch of the canal, defined in **Rules of Exploitation of the DBSC and PAMNC**

Tabela 4 / Table 4: Poduri pe CDMN si PAMN / Bridges on the Danube Black Sea Canal River

Pod /Bridge	Senal / Chainage (rkm)	Lățime de trecere pe sub pod/Clearance width (m)	Înălțime de trecere pe sub pod/ Clearance height (m)
Canal Dunăre Marea Neagră / Danube Black Sea Canal			
Pod rutier - Apolodor - Agigea	0.500	160	17.00
Pod feroviar Agigea	1.400	160	17.00
Pod rutier Agigea	2.700	160	17.00
Pod rutier Murfatlar	18.500	155	17.00
Pod rutier Murfatlar	23.300	104	17.00
Pod cale ferată Medgidia	36.100	119.50	17.00
Pod rutier Medgidia	40.200	120	17.00
Pod rutier și feroviar Cernavodă	60.300	80.80	17.00
Pod rutier Sfânta Maria	63.200	172	17.00
Canal Poarta Albă Midia Navodari/ Poarta Alba Midia Navodari Canal			
Pod feroviar bifurcatie PAMN	26.800	110	12.50
Pod rutier bifurcatie PAMN	26.600	110	12.50
Pod rutier Ovidiu	11.300	105	12.50
Pod feroviar Ovidiu	10.900	135	12.50
Pod rutier Năvodari	1.100	135	12.50
Canal Luminita / Luminita Canal			
Pod rutier Luminita	4.000	80	12.50
Pod feroviar Luminita	3.600	80	12.50

Tabel 5 / Table 5: Ecluze pe Canalele Navigabile / Locks on Navigable Canals

Ecluza / Navigational lock	Șenal / Chainage (rkm)	Număr de sas-uri / Number of chambers	Construit in / Erected in	Notă/ Note
Agigea / Agigea (DBSC)	1.00	2	1984	
Cernavodă / Ccervavoda(DBSC)	60.00	2	1984	
Năvodari /Navodari (PAMNC)	1.00	2	1987	
Ovidiu /Ovidiu (PAMNC)	12.00	2	1987	

Tabel 6 / Table 6: Zonele critice pe CDMN si PAMNC / Critical sectors on the Danube River

Nr. / No	Zonă Critică /Critical sector	Şenal / Chainage (rkm)	Nota / Note
1	Cernavodă	64.0 – 65.0	Navigație cu prudență / Cautious navigation*
2	Medgidia	36.0 - 37.0	Navigație cu prudență / Cautious navigation
3	Năvodari	0.0 - 1.0	Navigație cu prudență / Cautious navigation
4	Luminița	4.0 – 5.0	Navigație cu prudență / Cautious navigation

* La confluența dintre Canalul Dunăre Marea Neagră și Dunăre se află un sector critic pentru navigație. Acesta este foarte activ din punct de vedere morfologic, astfel că în perioadele cu nivel scăzut nu se ating parametrii necesari (adâncimea și lățimea).

*At the confluence between Danube Black Sea Canal and Danube is located one **critical sector for navigation**. This is morphologically very active sector, on which **required fairway parameters (depth and width) during low water periods are not fulfilled**.

Tabela 7 / Table 7: Semnale de navigație / Waterway marking signs

Coduri CEVNI / CEVNI code	Semnal de Navigație / Marking sign	Semnificație	Meaning
A – Semnale de interdicere / Prohibitory signs			
A.1		Interdicere de trecere	No entry
A.3		Interdicerea oricărei depășiri	No overtaking of convoys by convoys
A.5		Interdicerea de a staționa (de a ancora sau a se lega la mal)	No berthing (i.e. no anchoring or making fast to the bank)
A.6		Interdicerea de a ancora sau a lăsa să se târască ancore, cabluri sau lanțuri	No anchoring or trailing of anchors, cables or chains
A.9		Interdicerea de a provoca valuri	Do not create wash
B – Semnale de obligație / Mandatory signs			
B.2a		Obligația de a se îndrepta spre partea șenalului situat la babord	Move to the side of the fairway on your port side
B.2b		Obligația de a se îndrepta spre partea șenalului situat la tribord	Move to the side of the fairway on your starboard side
B.5		Obligația de a se opri în condițiile prevăzute de Regulament	Stop as prescribed in the Regulations
B.6		Obligația de a respecta limita de viteză indicată (în km/h)	Do not exceed the speed indicated (in km/h)
B.7		Obligația de a emite un semnal sonor	Give a sound signal
B.8		Obligația de a păstra o vigilență deosebită	Keep a particularly sharp lookout
B.11b		Obligația de a intra în legătura radiotelefonică pe canalul indicat pe panou	Obligation to enter into a radiotelephone link on the channel as indicated on the board
C – Semnale de restricție / Restrictive signs			
C.3		Lățimea pazei de trecere sau a șenalului este limitată	Width of passage or fairway limited
C.4		Sunt impuse restricții de navigație; « informați-vă ! »	There are restrictions on navigation: make enquiries
E - Semnale de indicație / Informative Signs			
E.5		Permiterea de a staționa (la ancoră sau legat la mal)	Berthing (i.e. anchoring or making fast to the bank) permitted
E.5.2		Permiterea de a staționa pe o	Berthing permitted on the stretch of the

		lățime a suprafeței de apă cuprinsă între cele două distanțe, măsurate de la semnal și indicate în metri pe acesta	<i>water bounded by the two distances measured from, and shown on the board in meters</i>
E.5.11		Zona de staționare rezervată navelor cu și fără echipaj care trebuie să poarte lumină albastră sau conul albastru	<i>Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry three blue lights or three blue cones</i>
E.6		Permitere de a ancora și de a lăsa să se târască ancore, cabluri sau lanțuri	<i>Anchoring or trailing of anchors, cables or chains permitted</i>
E.7		Autorizație de a se lega la mal	<i>Making fast to the bank permitted</i>
E.8		Loc de întoarcere	<i>Turning area</i>
E.9b		Căile întâlnite sunt considerate ca afluenți ai căii urmate	<i>The waterways being approached are considered to be tributaries of the waterway</i>
E.10b		Calea urmată e considerată ca afluent al căii de întâlnire	<i>This waterway is considered to be a tributary of the waterway being approached</i>
E.11b		Sfârșitul unei interdicții sau obligații valabile pentru un singur sens de navigație sau sfârșitul unei restricții.	<i>End of a prohibition or obligation applying to traffic in one direction only, or end of restriction</i>
E.13		Loc de alimentare cu apă potabilă	<i>Drinking water supply</i>
E.14		Post telefonic	<i>Telephone</i>
		Bornă Kilometrică	<i>Kilometer sign</i>

CEVNI – Codul European pentru navigația pe căile navigabile interioare, document al Comisiei Economice a Organizației Națiunilor Unite pentru Europa

Sunt prezentate numai semnalele folosite pe Canal Dunăre Marea Neagră și Poarta Albă Midia Navodari.

Pentru mai multe informații , accesați:
www.unece.org

Pentru mai multe informații referitoare la sectoarele critice , accesați:
www.acn.ro/index.php/ro/harti-electronice

CEVNI – European Code for Inland Waterways, document of the United Nations Economic Commission for Europe

Only signs used on the Danube Black Sea Canal and Poarta Alba Midia Navodari Canal are presented here.

For more information, please visit:
www.unece.org

For information on current changes of the critical sectors, please visit:
www.acn.ro/index.php/ro/harti-electronice

Tabela 8 / Table 8: Contacte / Contacts

Instituția / Authority	Program de lucru / Working hours	Notă / Note
Administrația Canalelor Navigabile SA / Administration of the Navigable Canals Adresa / Address: Str. Ecluzei nr.1, Agigea , Constanța, cod 907015- Ecluzei no.1, Agigea , Constantza, code 907015 Tel: +40241702700 E-mail: compania@[can].ro Website: www.acn.ro Facebook: https://www.facebook.com/CN-ACN-SA-Constanta	Luni – Joi 08:00 - 16:30 Vineri 08:00 - 14:00	Furnizeaza informații referitoare la condiții de navigație, măsurători hidrografice, semnalizare, dragaj, RIS / <i>Provision of information on navigation conditions, hydrographic survey, waterway marking, river training works, RIS</i>
Dispecerat Central de Navigație / Central Navigation Dispatcher Adresa / Address: Tel: +40241702704 E-mail: dispecerat@acn.ro	00:00-24:00	
Autoritatea Navală Română / Romanian Naval Romanian Adresa / Address: Incintă Port Constanța nr. 1, Clădire ANR, Constanța, Cod 900900 Tel: + 40241616124 E-mail: rna@[rna].ro Website: www.roris.ro , portal.rna.ro Facebook: https://www.facebook.com/AutoritateaNavalaRomana/	08:00-16:30	
Administrația Fluvială a Dunării de Jos/ Galati LowerDanube River Administration Adresa / Address: Galati, 32 Portului Street, Romania Tel: + 40236 460812 E-mail: secretariat@[afdj].ro Website: www.afdj.ro	08:00 - 16:30	

Conținut / Content

Pagina / Page	Secțiune Canal / Canal stretch	Pagina / Page	Secțiune Canal / Canal
01	63,000-65,000	37	0,000-0,000
02	62,000-63,000	38	25,000-26,000 (CPAMN)
03	60,000-61,000	39	23,000-24,000
04	58,000-59,000	40	21,000-22,000
05	56,000-57,000	41	19,000-20,000
06	55,000-56,000	42	17,000-18,000
07	53,000-54,000	43	15,000-17,000
08	51,000-53,000	44	14,000-14,000
09	50,000-50,000	45	12,000-13,000
10	48,000-49,000	46	10,000-11,000
11	46,000-47,000	47	9,000-9,000
12	44,000-45,000	48	7,000-8,000
13	43,000-43,000	49	5,000-6,000
14	41,000-42,000	50	3,000-4,000
15	39,000-40,000	51	1,000-2,000
16	37,000-38,000	52	2,000-3,000 (Luminita)
17	35,000-36,000	53	4,000-4,000
18	34,000-34,000	54	5,000-5,000
19	32,000-33,000		
20	30,000-31,000		
21	27,000-29,000 (CPAMN)		
22	26,000-27,000		
23	24,000-25,000		
24	23,000-23,000		
25	21,000-22,000		
26	19,000-20,000		
27	17,000-18,000		
28	16,000-16,000		
29	14,000-15,000		
30	12,000-13,000		
31	10,000-11,000		
32	8,000-9,000		
33	7,000-7,000		
34	5,000-6,000		
35	3,000-4,000		
36	1,000-2,000		

Legendă / Legend

Dig vertical
Vertical bank

Dolhpins
Dolhpins

Sifon (cablu, conducta)
Siphon (cable, pipeline)

Dig de colmatare
Groins

Drum , ruta
Road, path

Podet
Footbridge

Pod de oțel
Steel bridge

Pod de beton /Concrete bridge

Drum principal
Main road

Stavilar mobil, podet, ecluza, centrala
Movable weir, footbridge, lock, power plant

Indicator masura nivel
Water level indicator

Indicatii nautice radio cu frecventa si directia de impact
Nautical information radio with frequency and direction of impact

Permis ambarcatiuni sportive
Sport boats permitted

Interzis ambarcatiuni sportive
Sport boats prohibited

Semnal de avertizare indică trafic din sens opus
Warning signal indicating oncoming traffic

Batardou, terasament semnificativ
Dam, Significant embankment

Pod plutitor în mișcare liberă
Free moving ferry

Cable ferry with ferry rope

Rambleu
Ramp

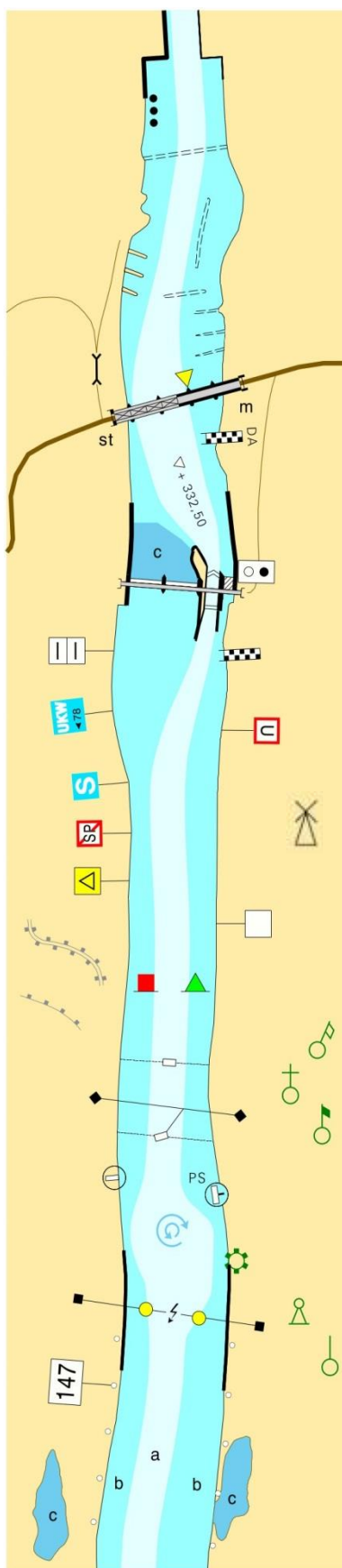
Bazin de intoarcere
Turning basin

Cablu curent cu reflector radar
Overhead cable with radar reflectors

Borna kilometrica
Kilometre sign

Hectometru
Hectometer

Lac
Lake



Mal fixat
Fastened river bank

Mal deschis
Unfastened river bank

Lucrari sub apa
Training wall under water

Dig de colmatare, fundatie sub apa
Groins, ground sill under water

Radar, reflector
Radar reflector

Indicator inaltime libera sub pod
Vertical clearance indicator

Hydrostatic backwater
Semnal luminos
Signal light

Statie masura nivel
Gauge

Obligatoriu folosire statie
Use of radio mandatory

Transmitator
Broadcaster

Semnal de informare
Information sign

Geamandura
Fairway buoy

Ruina
Ruin

Biserica
Church

Castel de apa
Castle

Dig plutitor /Pier, floating
PS Dig pentru nave de pasageri
Pier for passenger ships

Moara de apa
Water mill

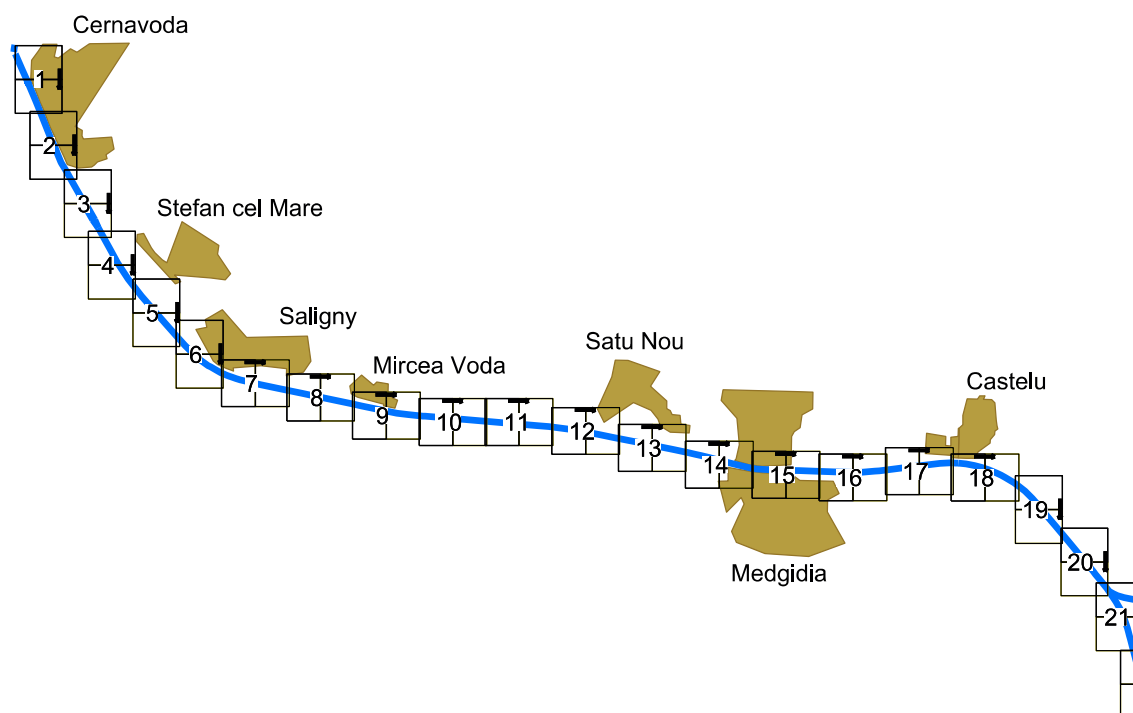
Monument
Monument

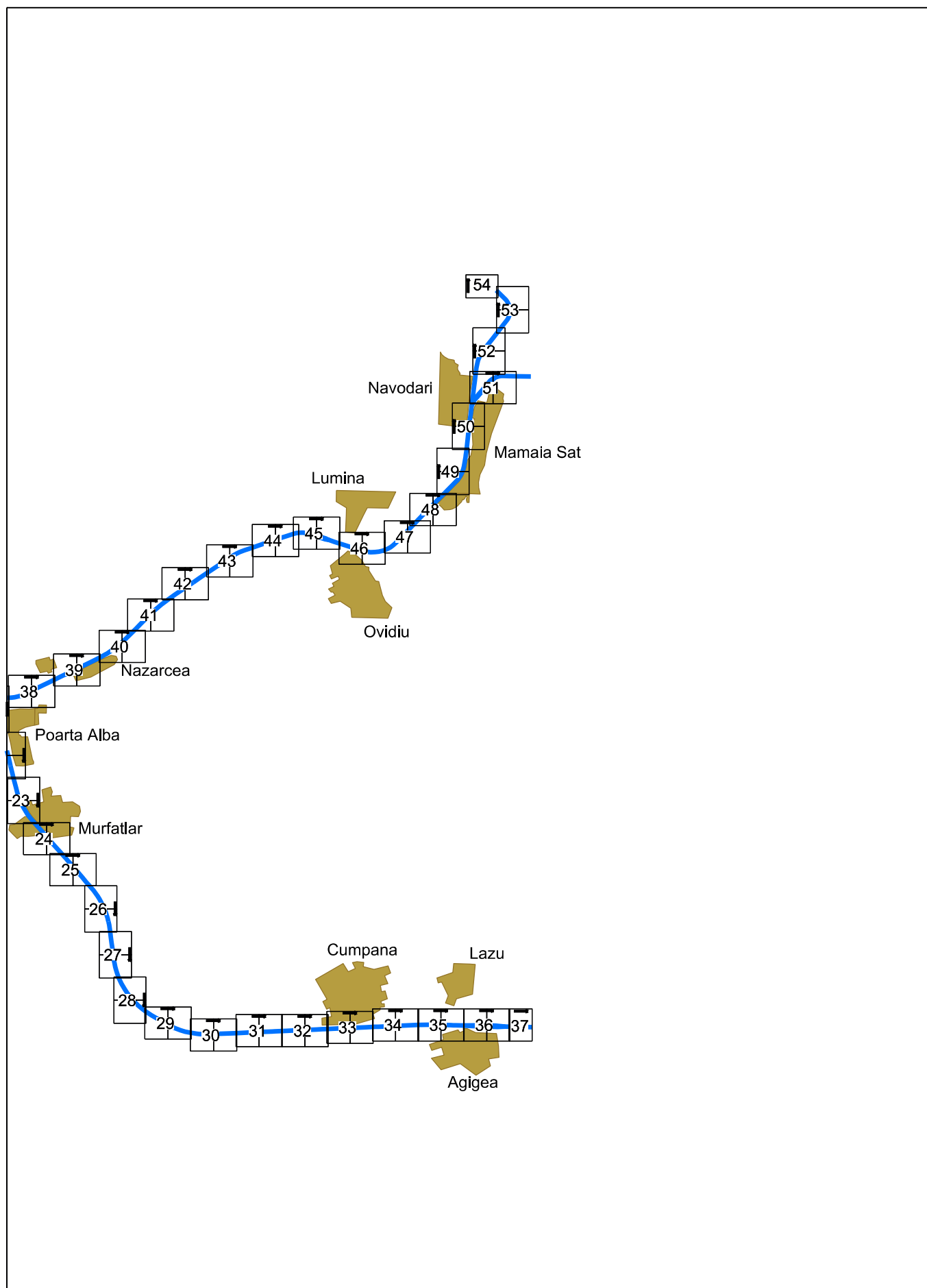
Turn, Horn
Tower, chimney

a. Senal/Fairway

b. Alte zone navigabile/
Other water areas, navigable

c. Alte zone cu apa
Other wataer areas





0 m

500 m

28° 1.2608'
44° 20.7204'

28° 2.1941'
44° 20.7120'

CERNAVODA

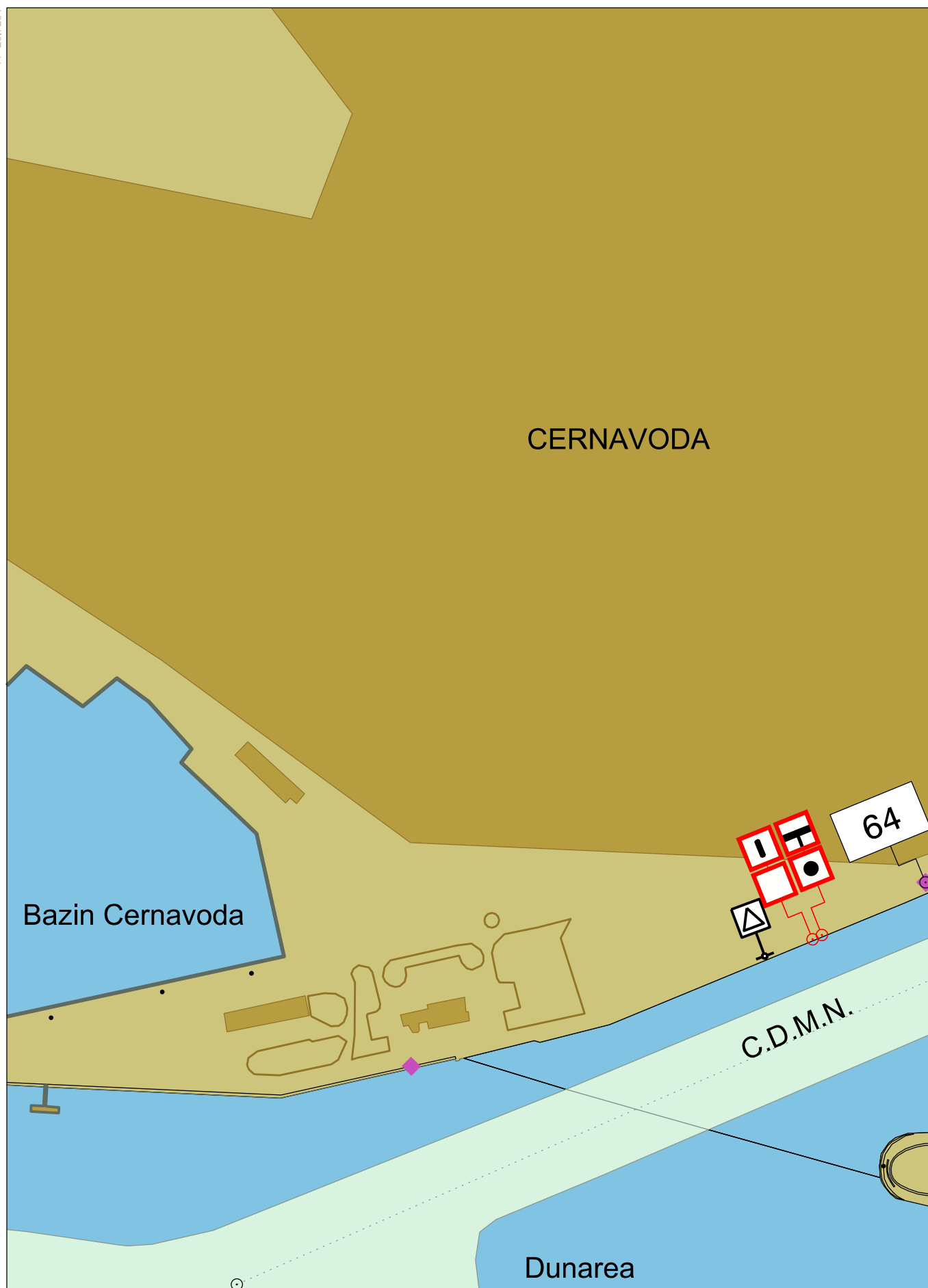
Bazin Cernavoda

C.D.M.N.

Dunarea

28° 1.2692'
44° 21.2038'

28° 2.2026'
44° 21.1954'

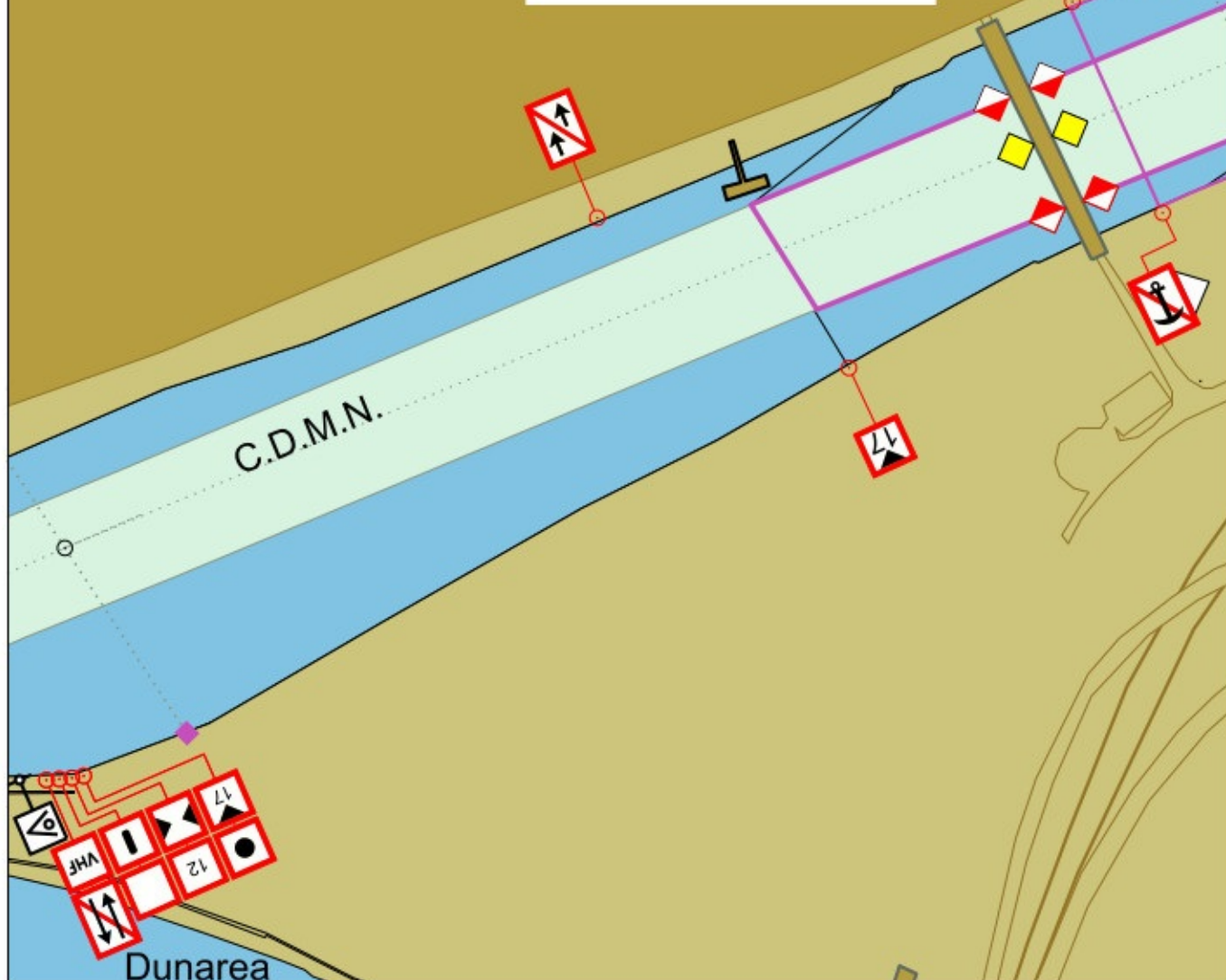
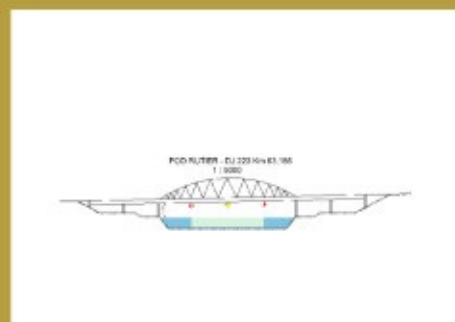




28° 1.2524"
44° 20.2370"

28° 2.1856"
44° 20.2285"

CERNAVODA



28° 1.2608"
44° 20.7204"

28° 2.1941"
44° 20.7129"

0 m

500 m



28° 1.5367'
44° 19.7754'

28° 2.4697'
44° 19.7669'

CERNAVODA

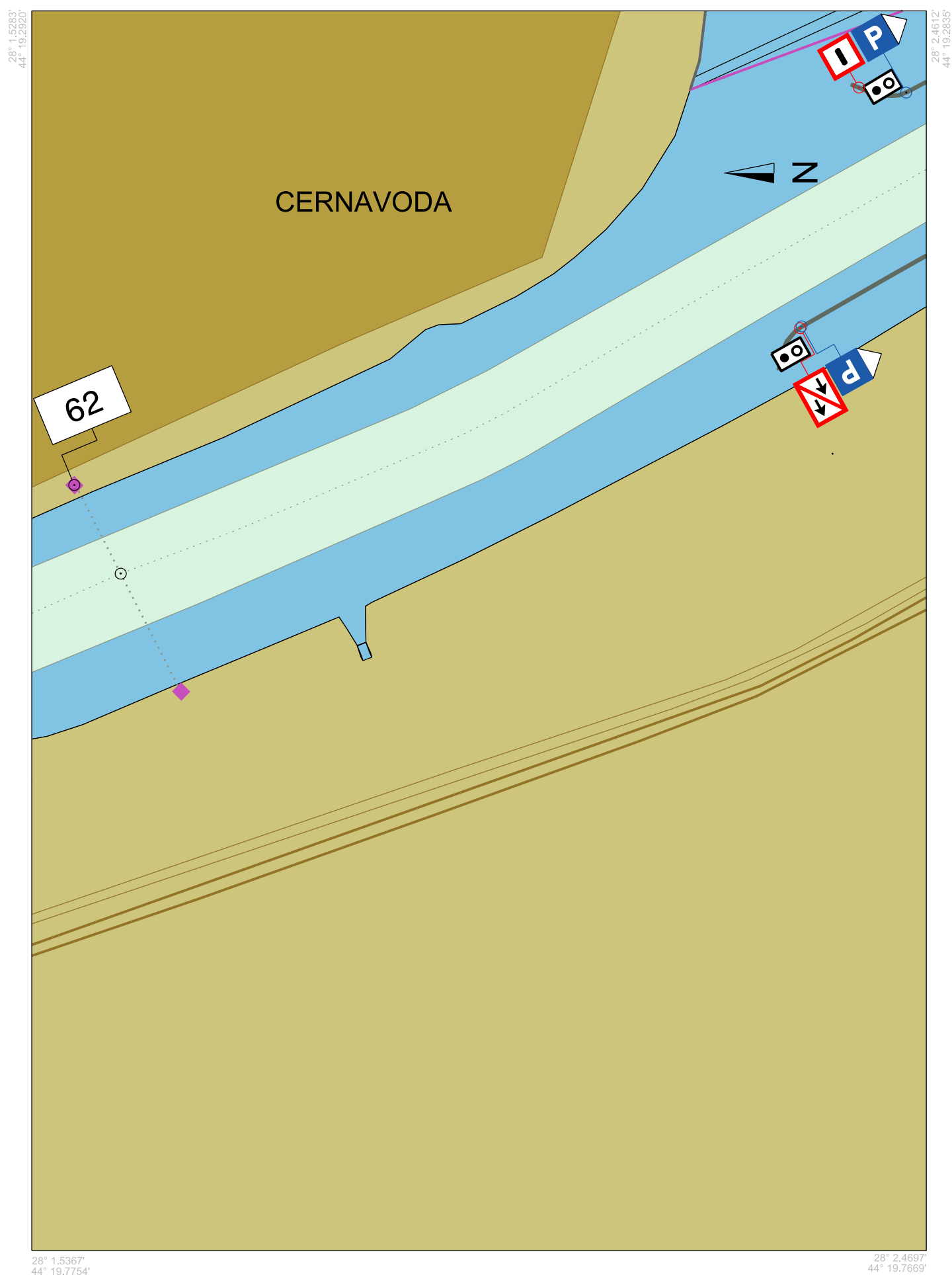
63

C.D.M.N.



28° 1.5452'
44° 20.2587'

28° 2.4783'
44° 20.2503'



0 m

500 m



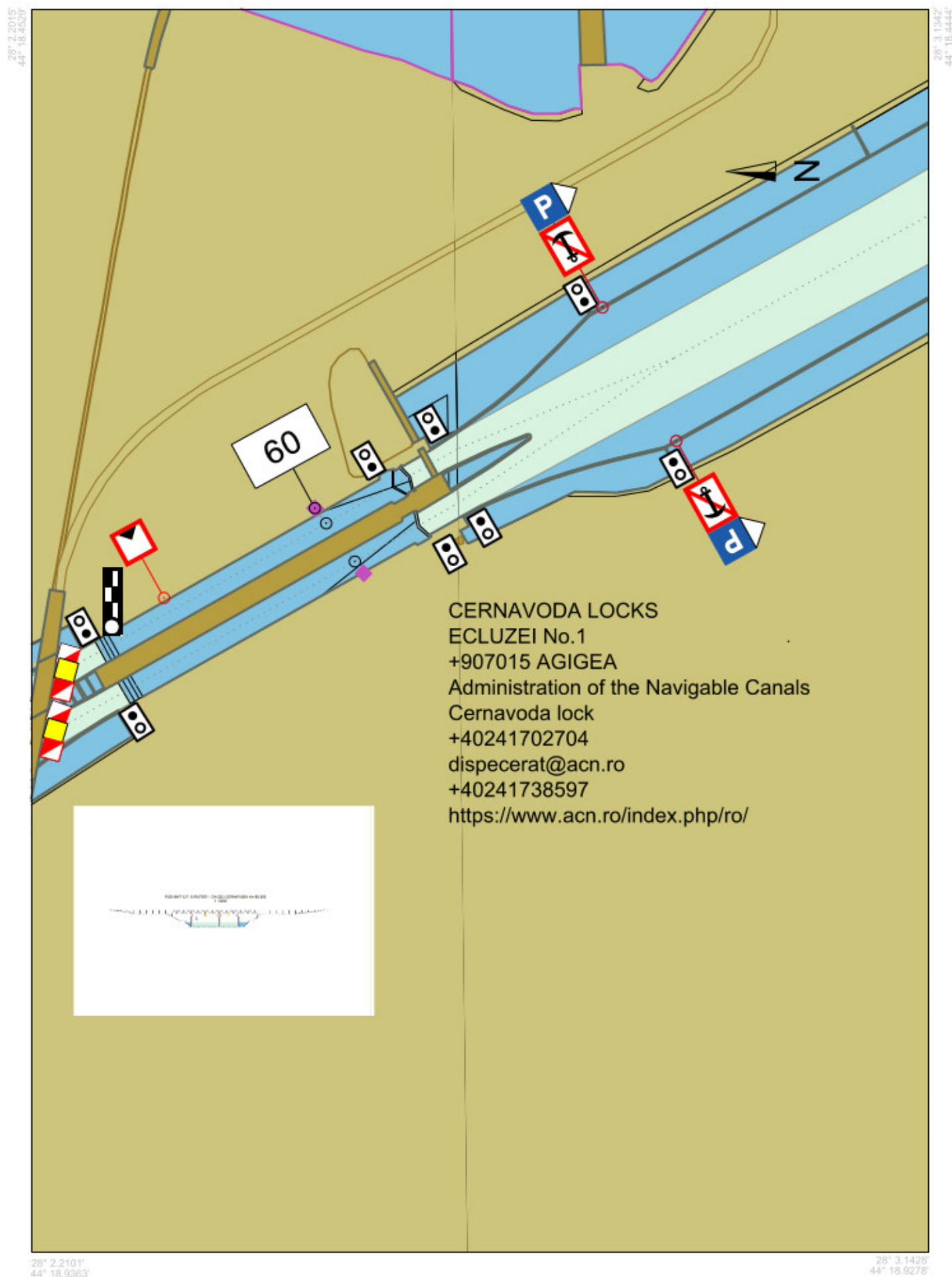
28° 2.2101'
44° 18.9363'

28° 3.1428'
44° 18.9278'



28° 2.2186'
44° 19.4197'

28° 3.1515'
44° 19.4111'



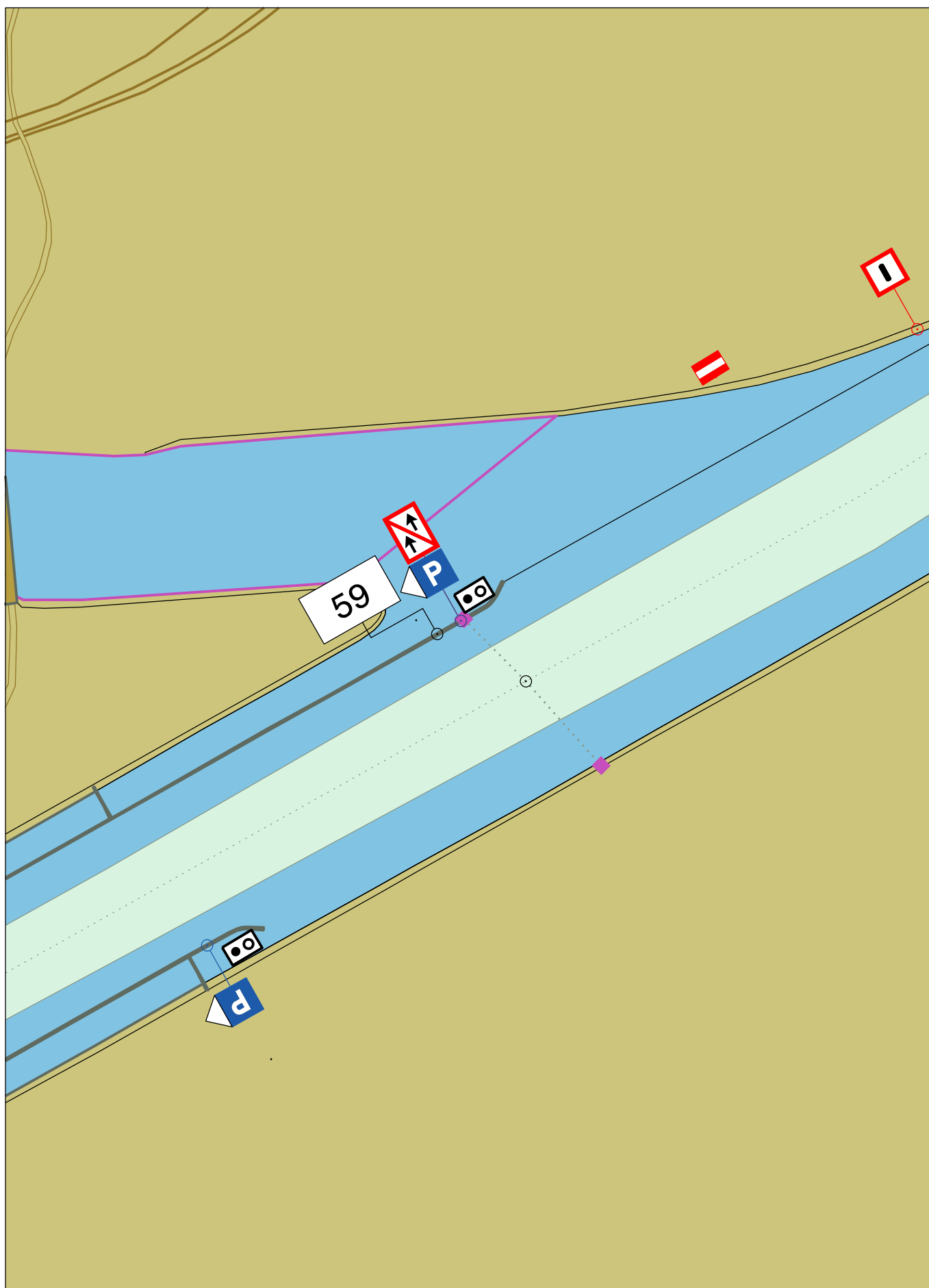
0 m

500 m



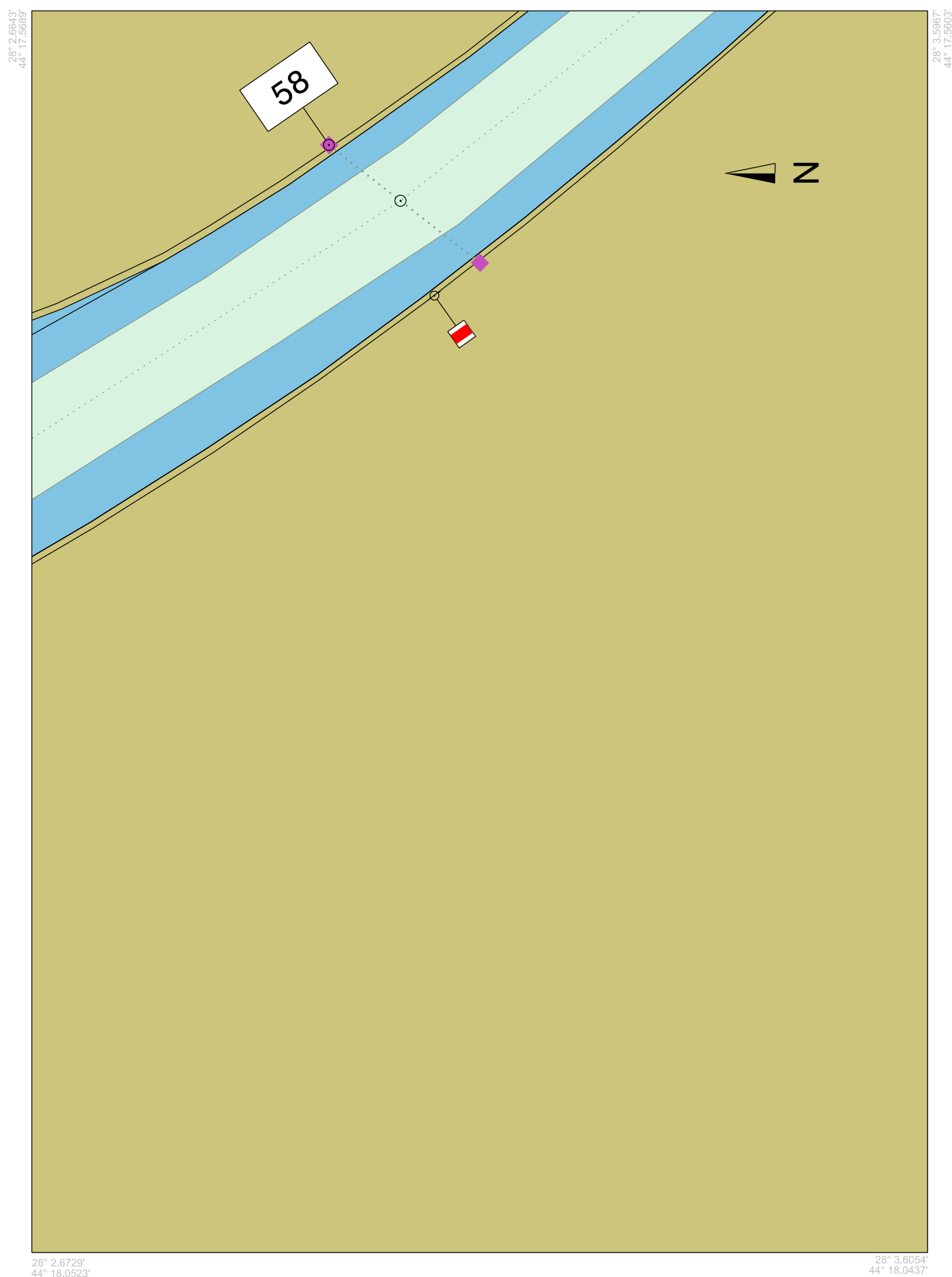
28° 2.6729'
44° 18.0523'

28° 3.6054'
44° 18.0437'



28° 2.6814'
44° 18.5357'

28° 3.6141'
44° 18.5271'



0 m

500 m

28° 3.5431'
44° 17.3647'

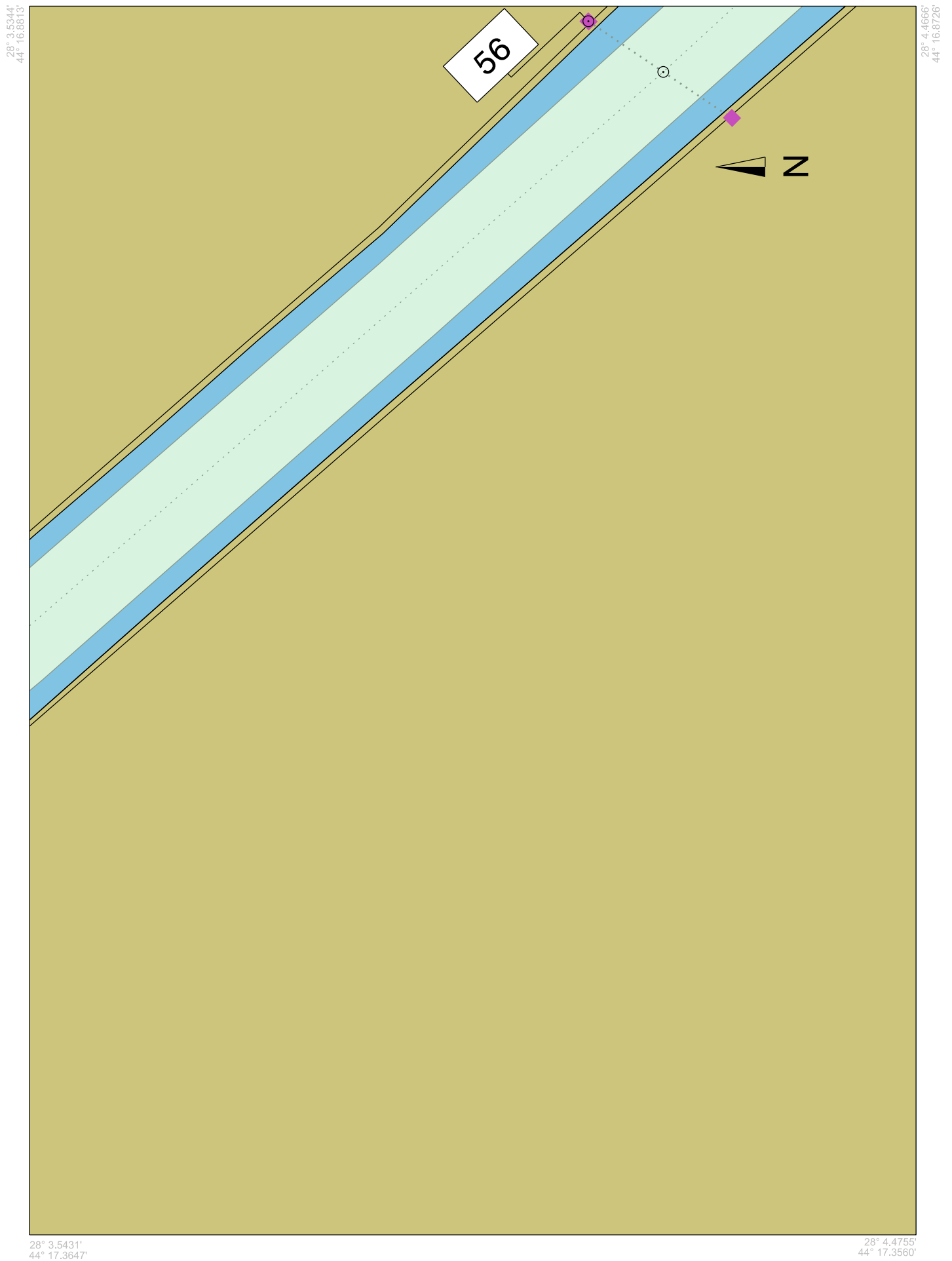
STEFAN CEL MARE

28° 4.4755'
44° 17.3560'

57

28° 3.5518'
44° 17.8481'

28° 4.4843'
44° 17.8394'



0 m

500 m



28° 4.3959'
44° 16.7639'

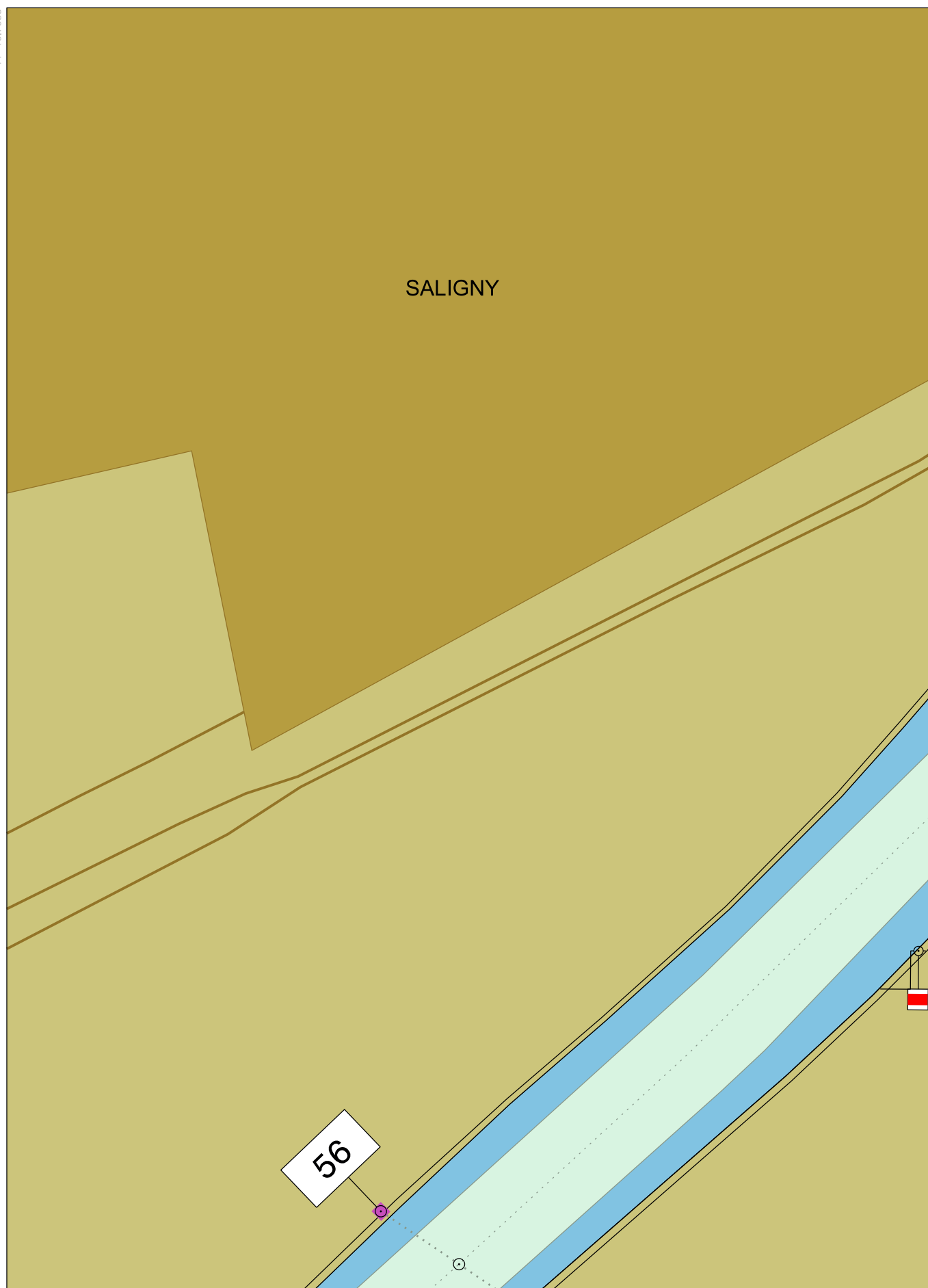
28° 5.3281'
44° 16.7551'

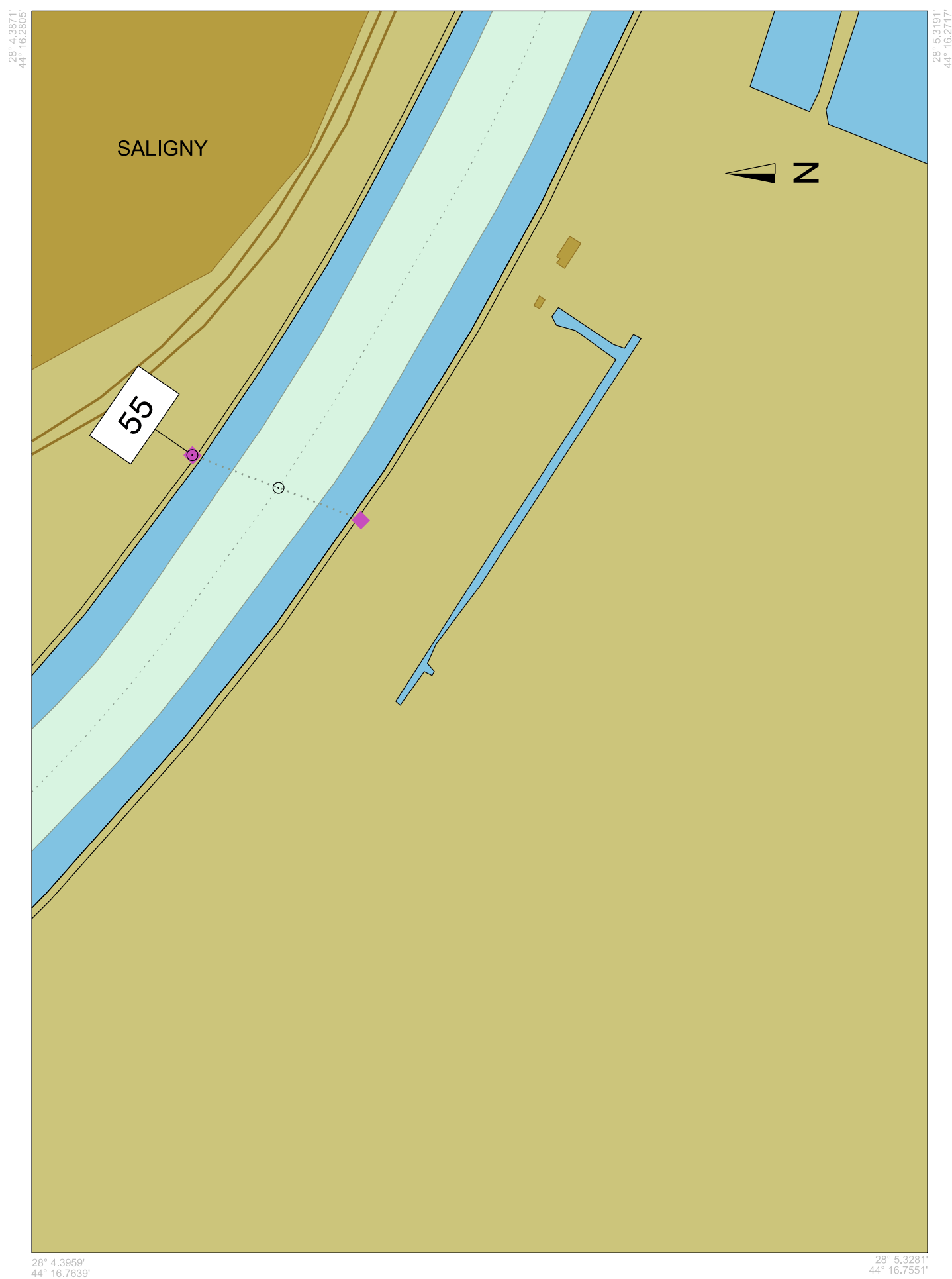
SALIGNY

56

28° 4.4047'
44° 17.2473'

28° 5.3370'
44° 17.2385'





0 m

500 m

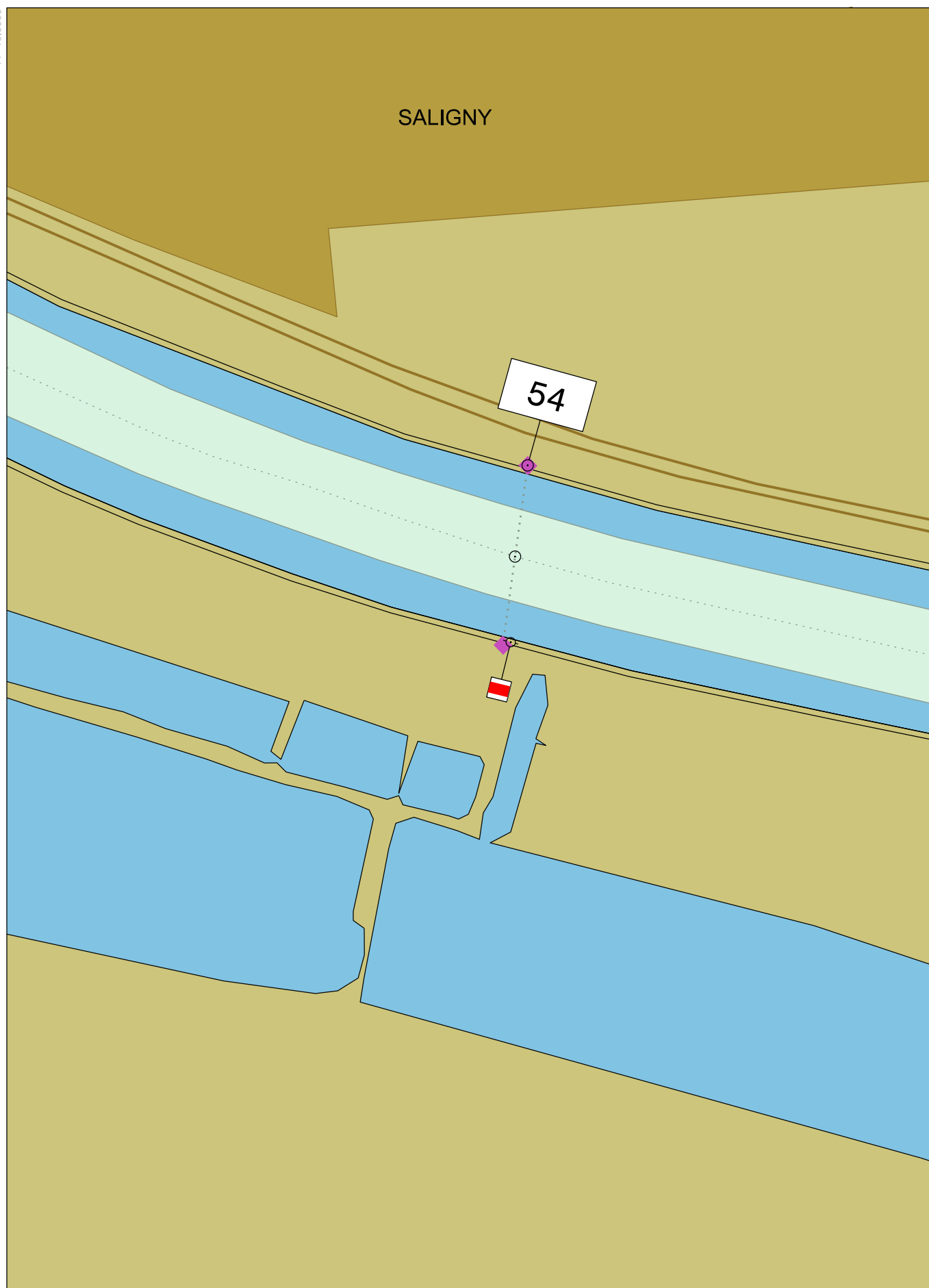


28° 5.9555'
44° 16.0000'

28° 5.9630'
44° 16.6637'

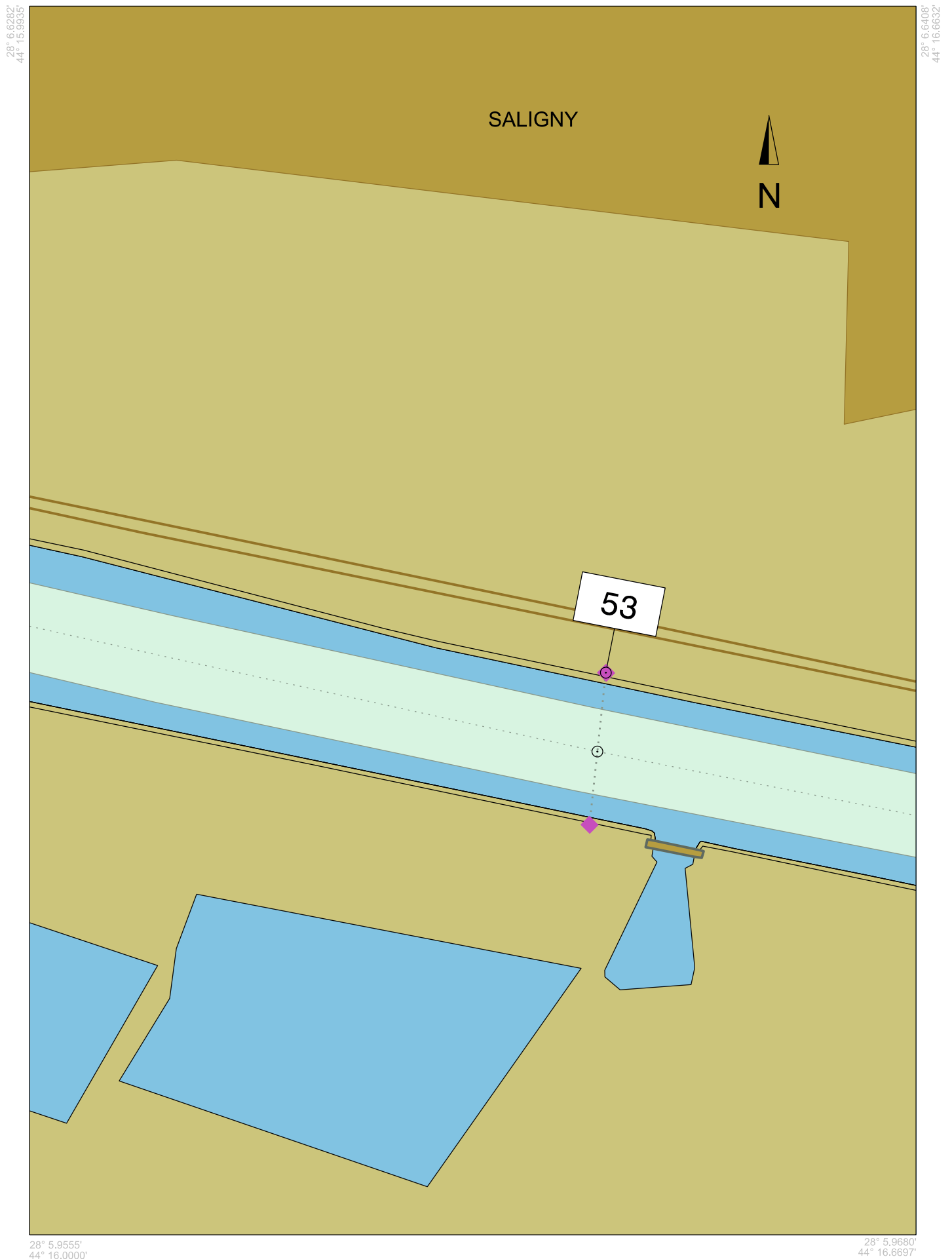
SALIGNY

54



28° 5.2828'
44° 16.0064'

28° 5.2952'
44° 16.6761'



0 m

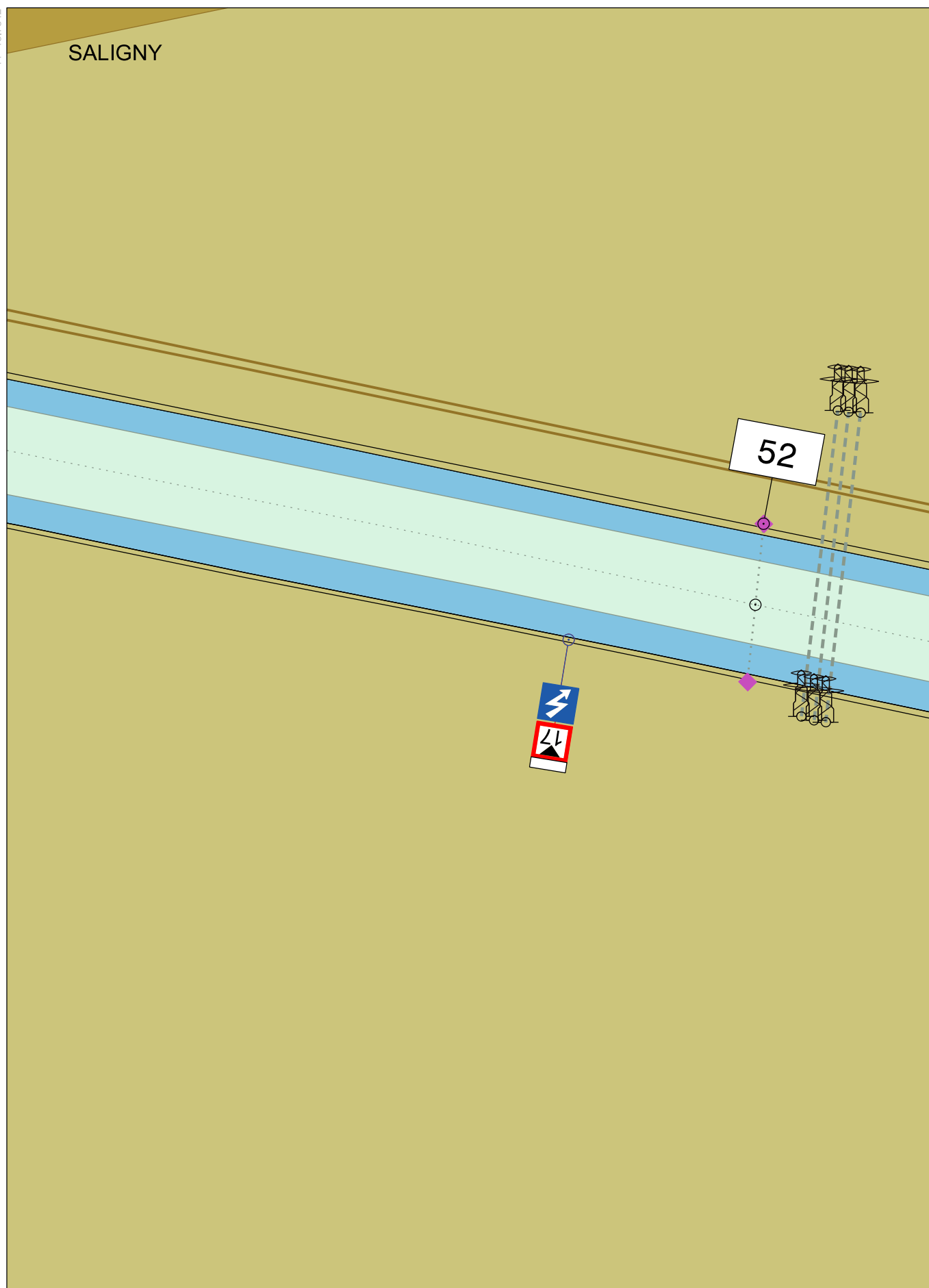
500 m



28° 7' 24.86"
44° 15.7842'

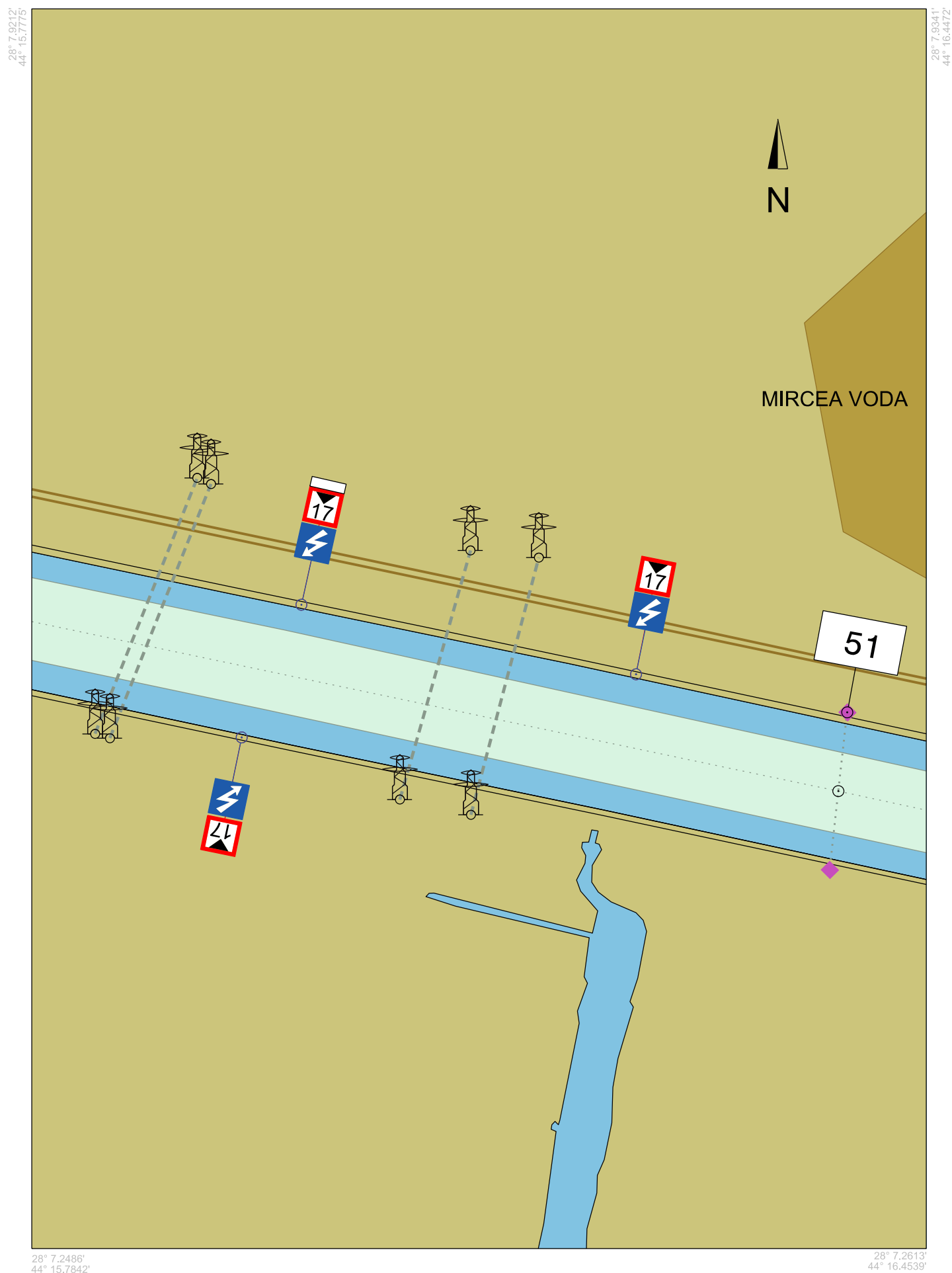
SALIGNY

28° 7' 26.13"
44° 16.4539'



28° 6.5759'
44° 15.7907'

28° 6.5885'
44° 16.4604'



0 m

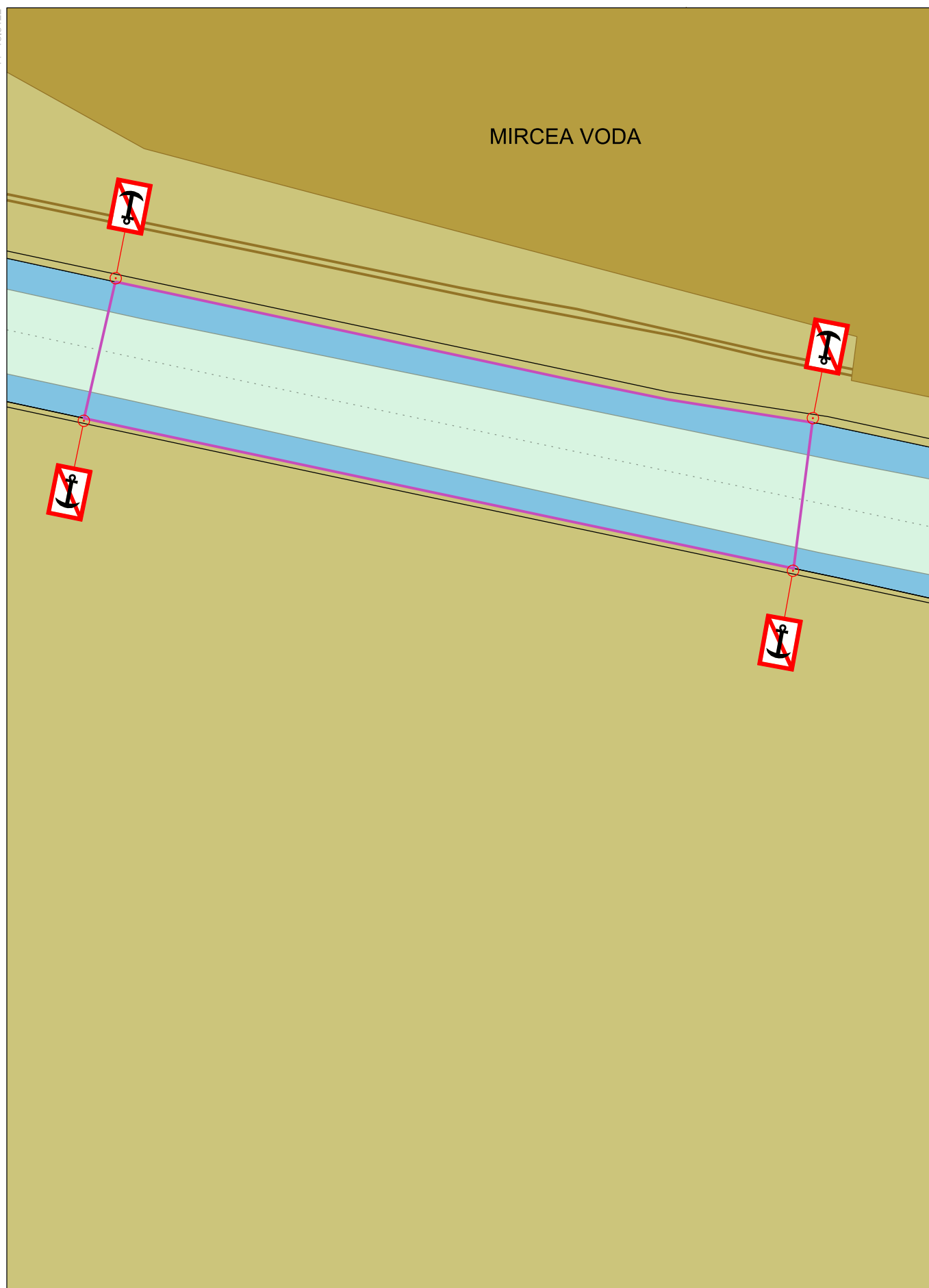
500 m



28° 8.5514'
44° 15.5122'

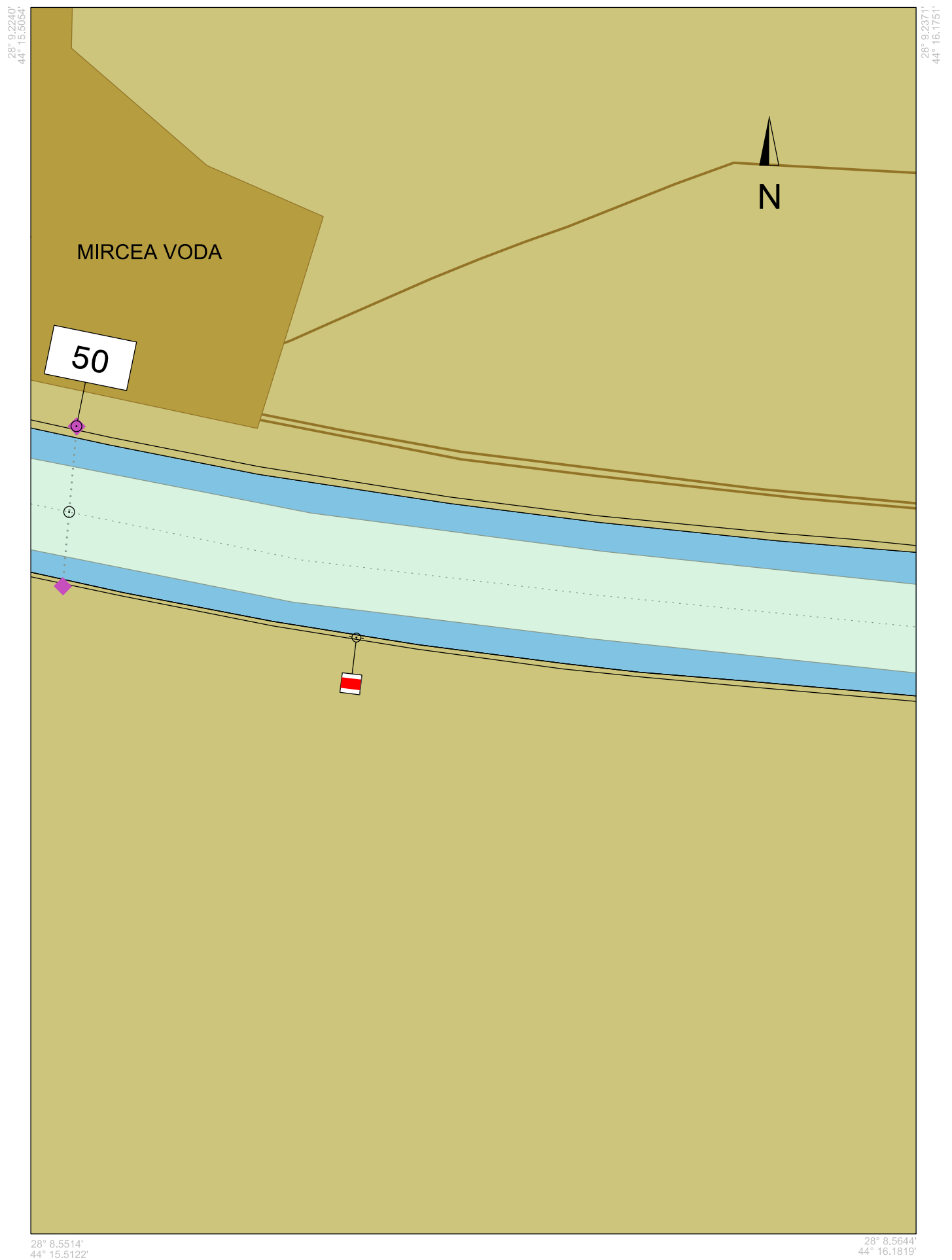
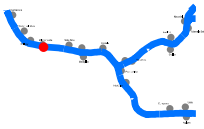
28° 8.5644'
44° 16.1819'

MIRCEA VODA



28° 7.8788'
44° 15.5189'

28° 7.8917'
44° 16.1886'



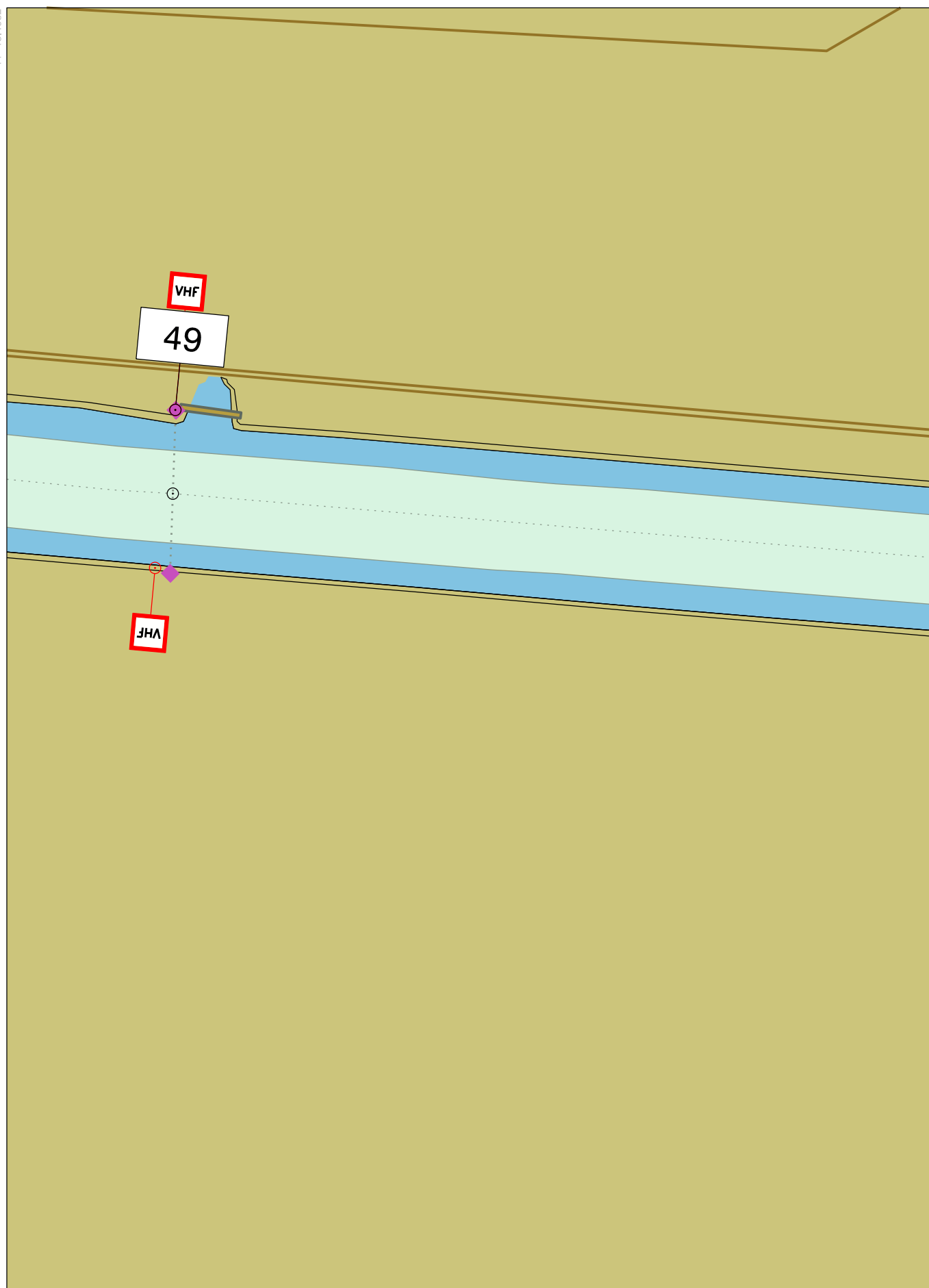
0 m

500 m



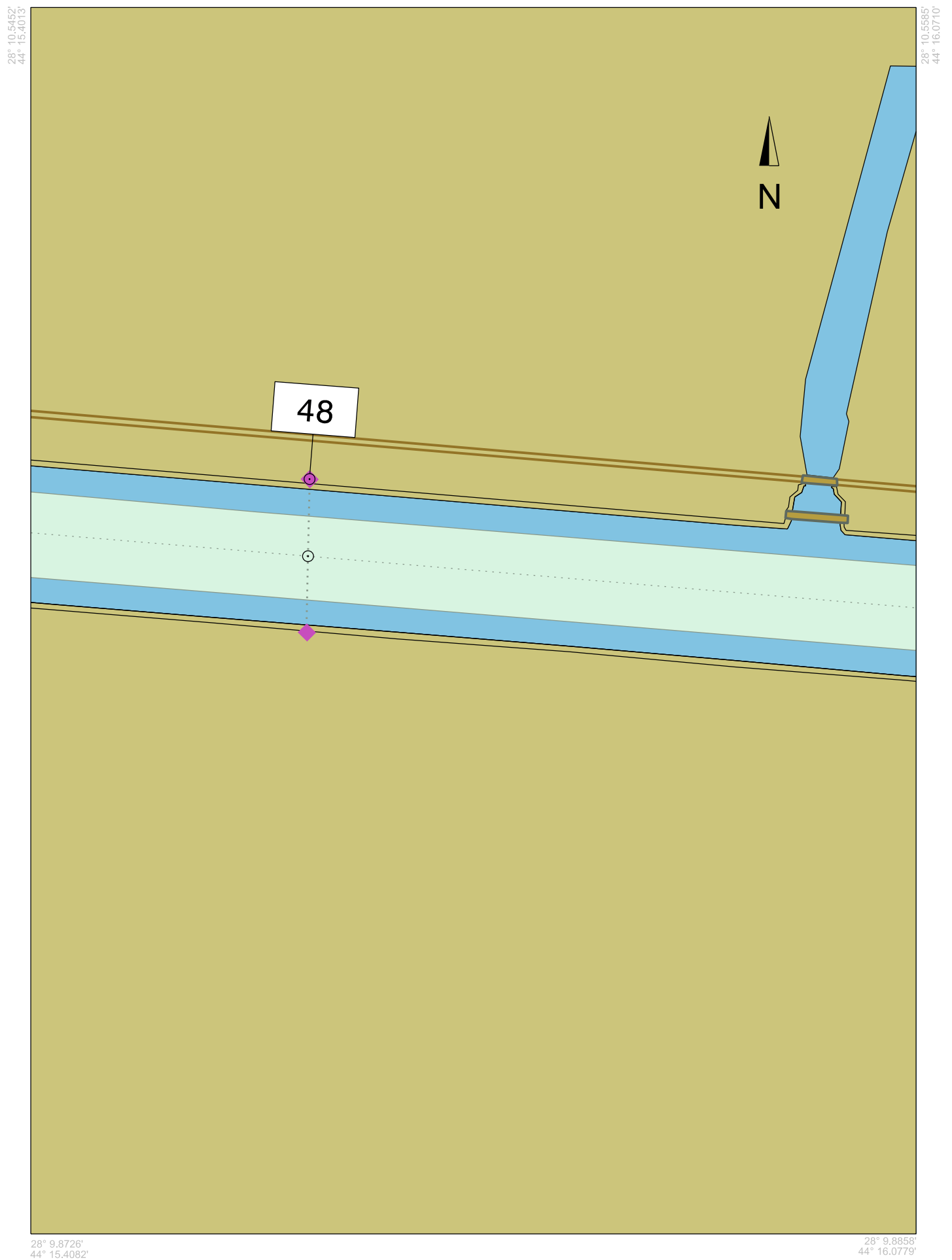
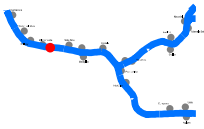
28° 9.8726'
44° 15.4032'

28° 9.8858'
44° 16.0779'



28° 9.2001'
44° 15.4150'

28° 9.2132'
44° 16.0847'



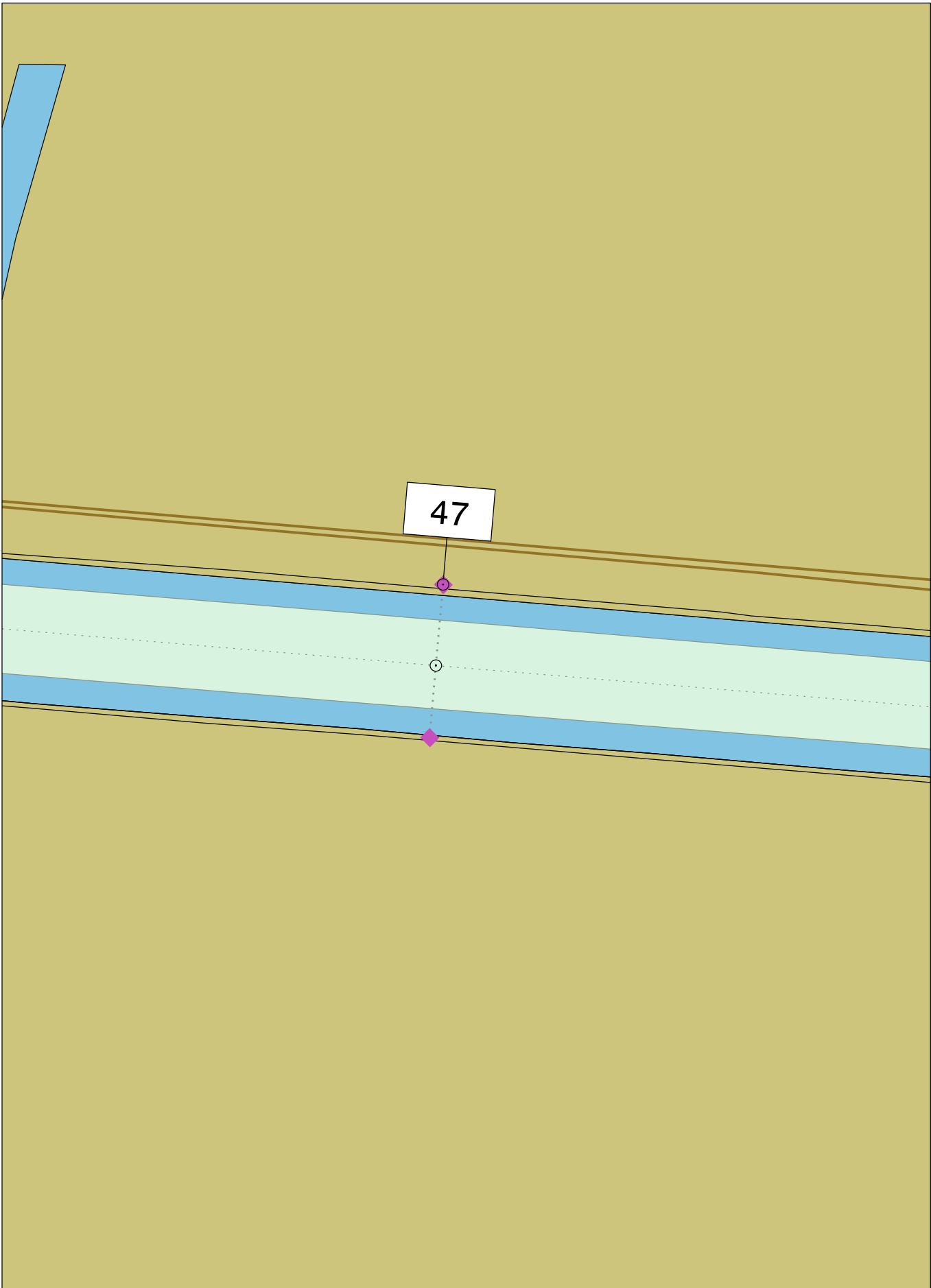
0 m

500 m



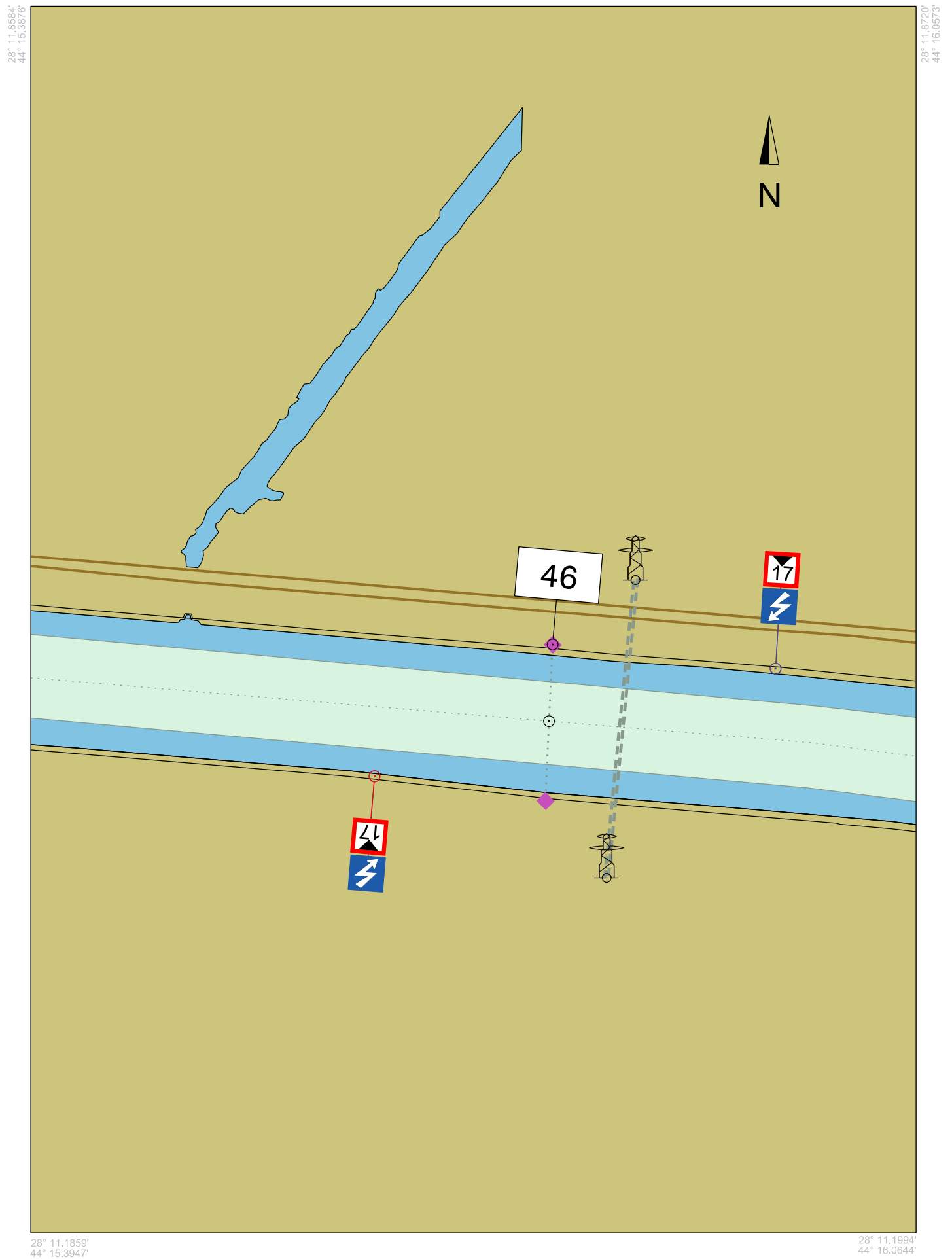
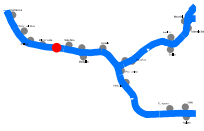
28° 11.1859'
44° 15.3947'

28° 11.1994'
44° 16.0644'



28° 10.5133'
44° 15.4016'

28° 10.5267'
44° 16.0713'



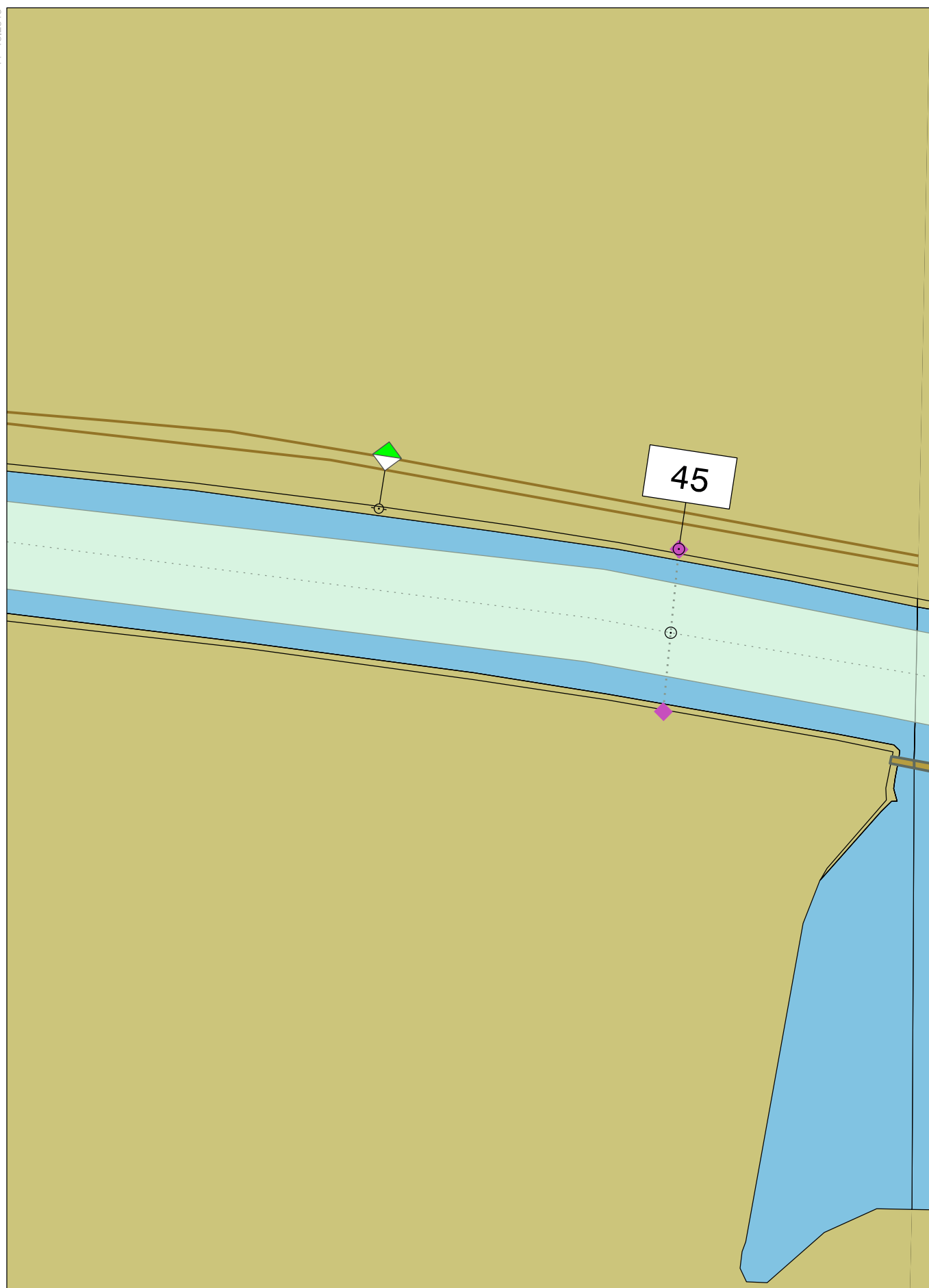
0 m

500 m



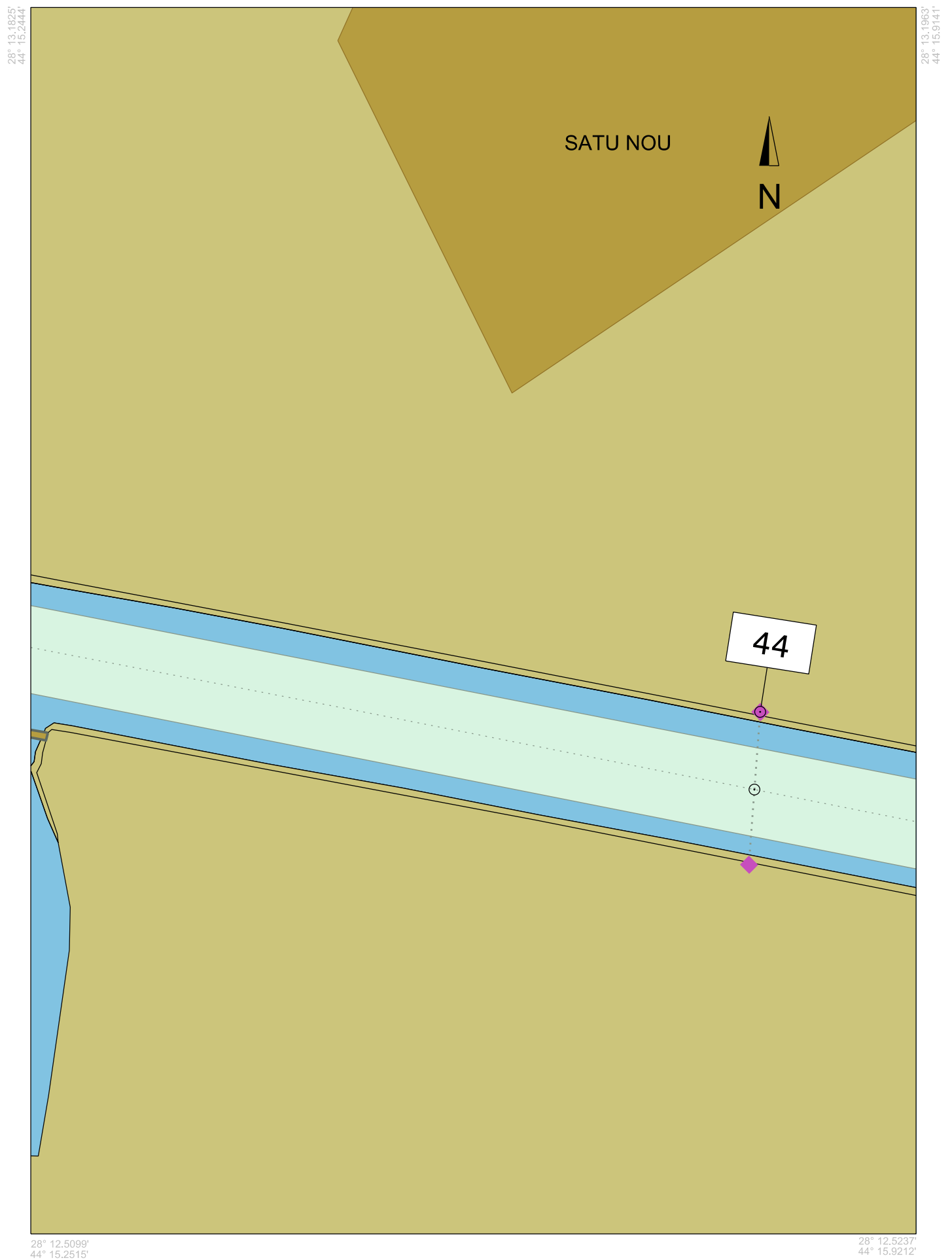
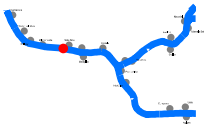
28° 12.5099'
44° 15.2515'

28° 12.5237'
44° 15.9212'



28° 11.8374'
44° 15.2586'

28° 11.8510'
44° 15.9283'



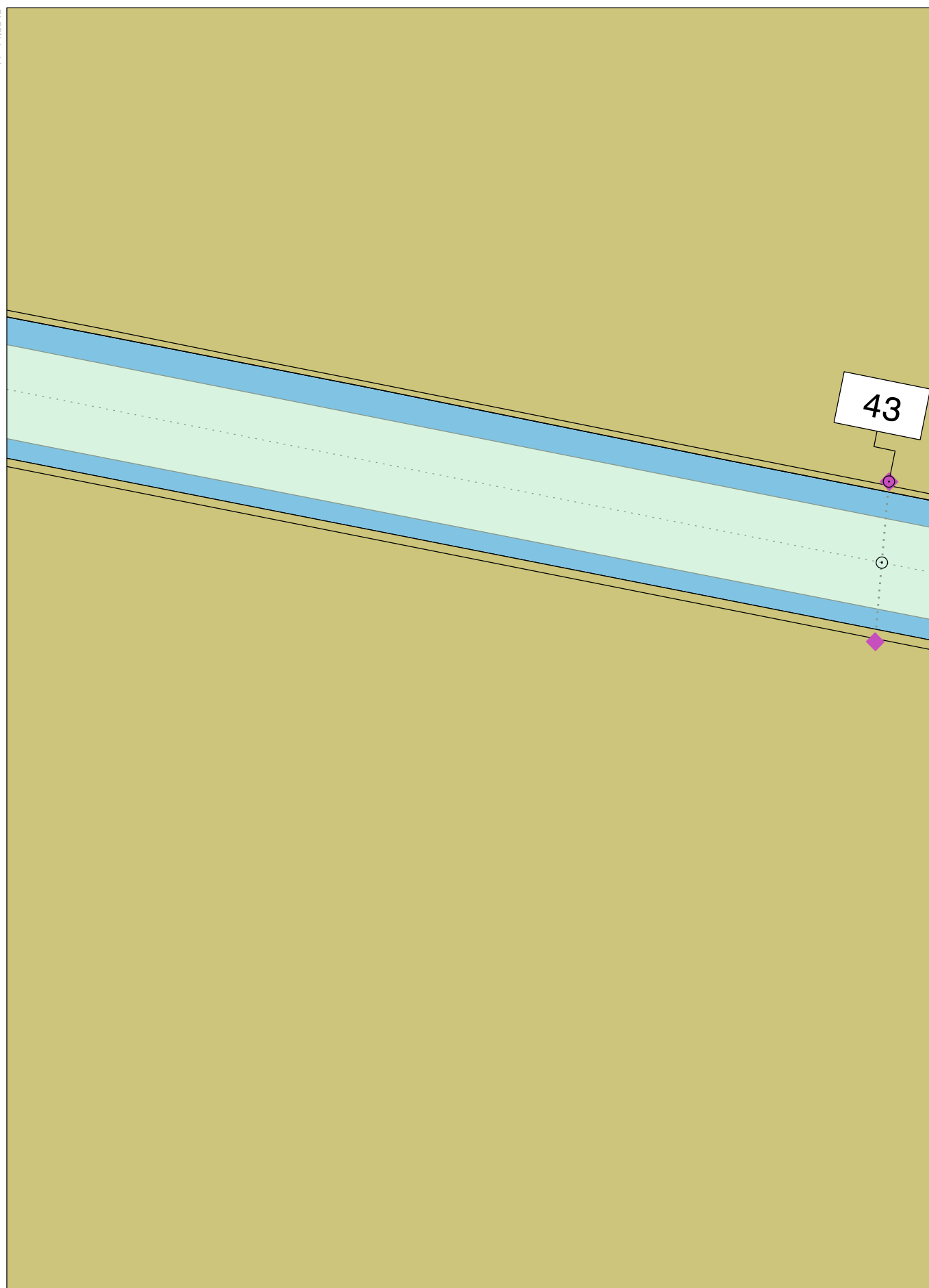
0 m

500 m



28° 13.8283'
44° 14.9949'

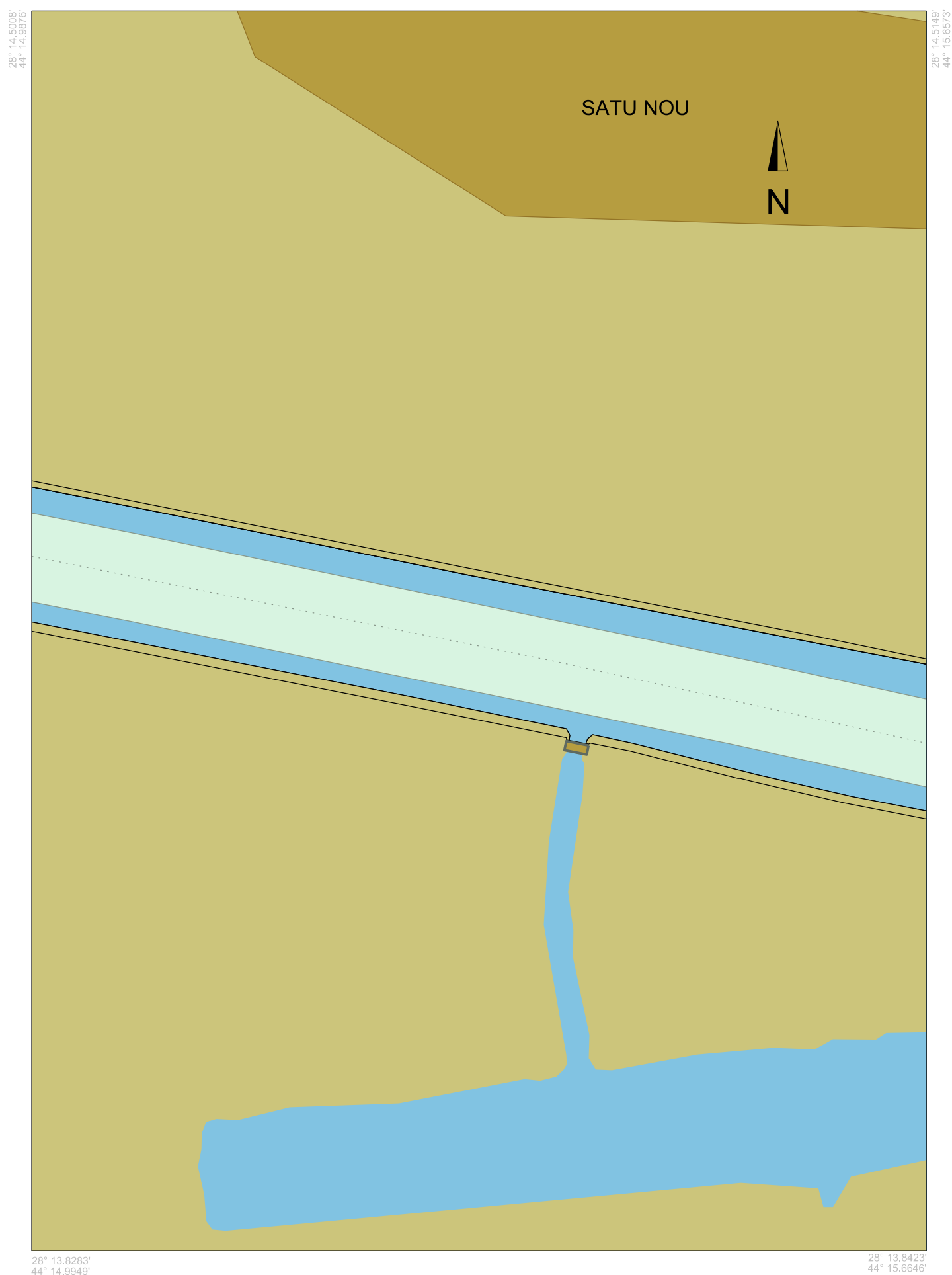
28° 13.8423'
44° 15.6646'



43

28° 13.1559'
44° 15.0021'

28° 13.1697'
44° 15.6718'



0 m

500 m

28° 15.1561'
44° 14.7413'

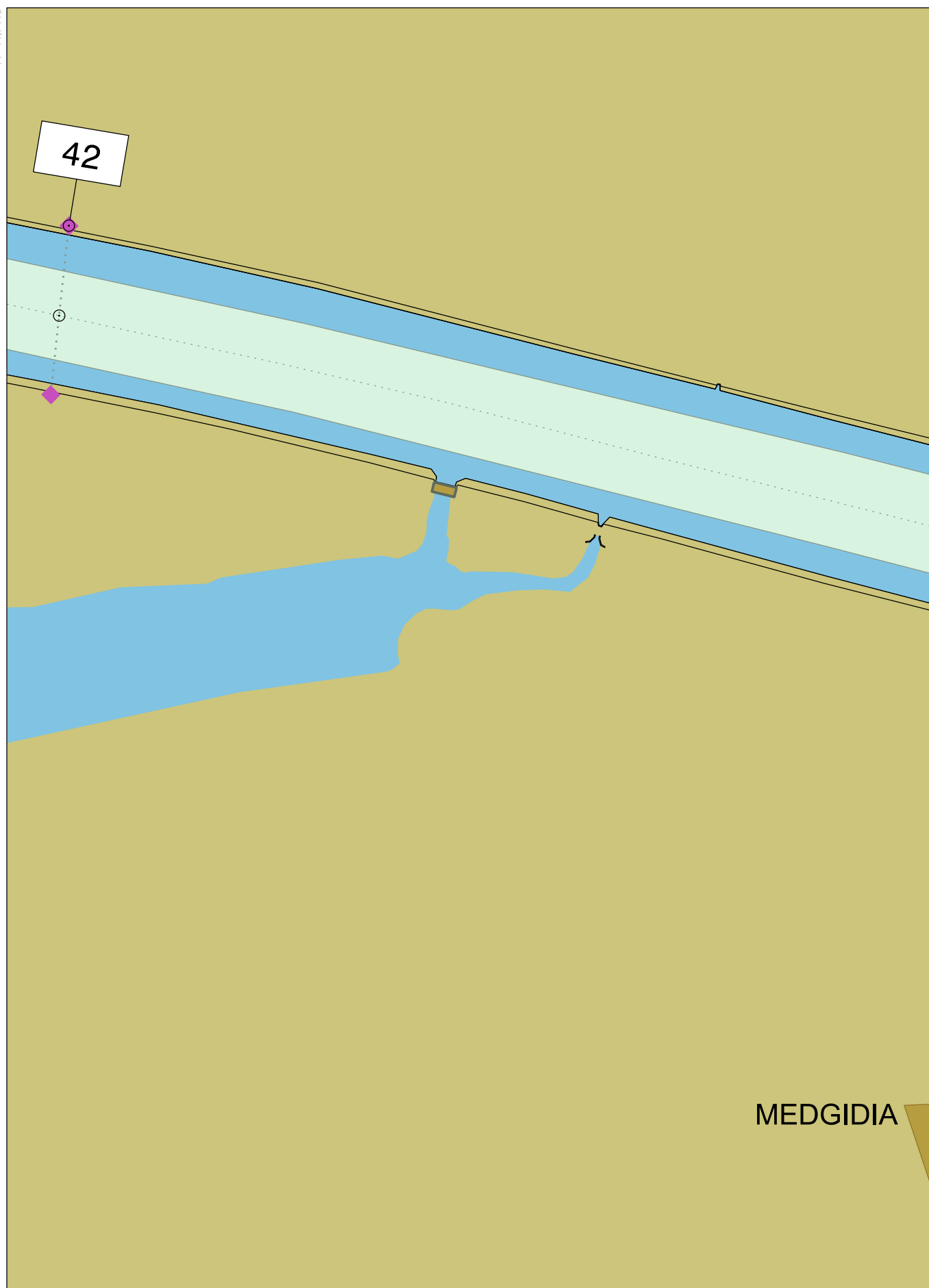
28° 15.1703'
44° 15.4110'

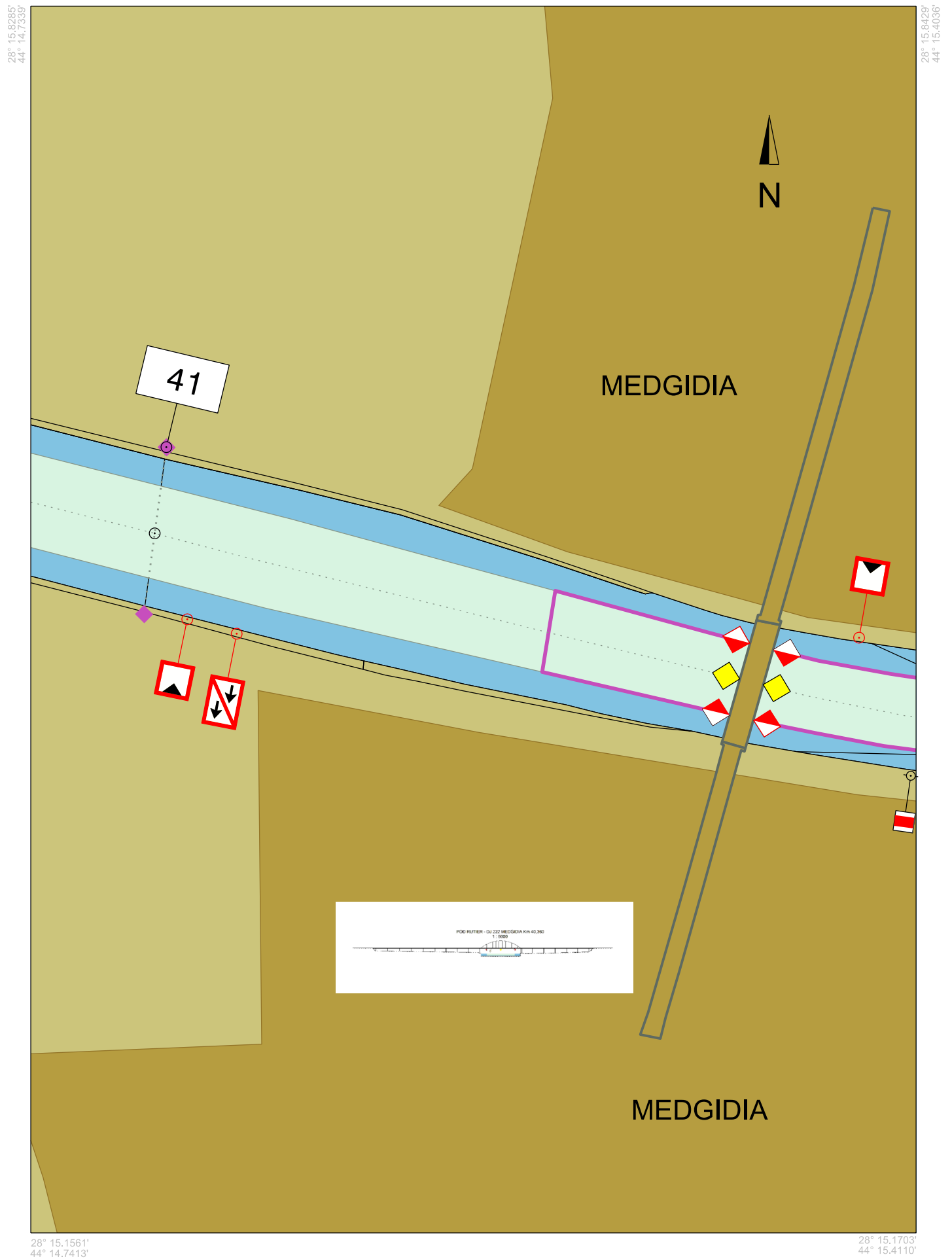
42

MEDGIDIA

28° 14.4837'
44° 14.7487'

28° 14.4978'
44° 15.4184'





0 m

500 m



28° 16.4794'
44° 14.5815'

28° 16.4939'
44° 15.2512'

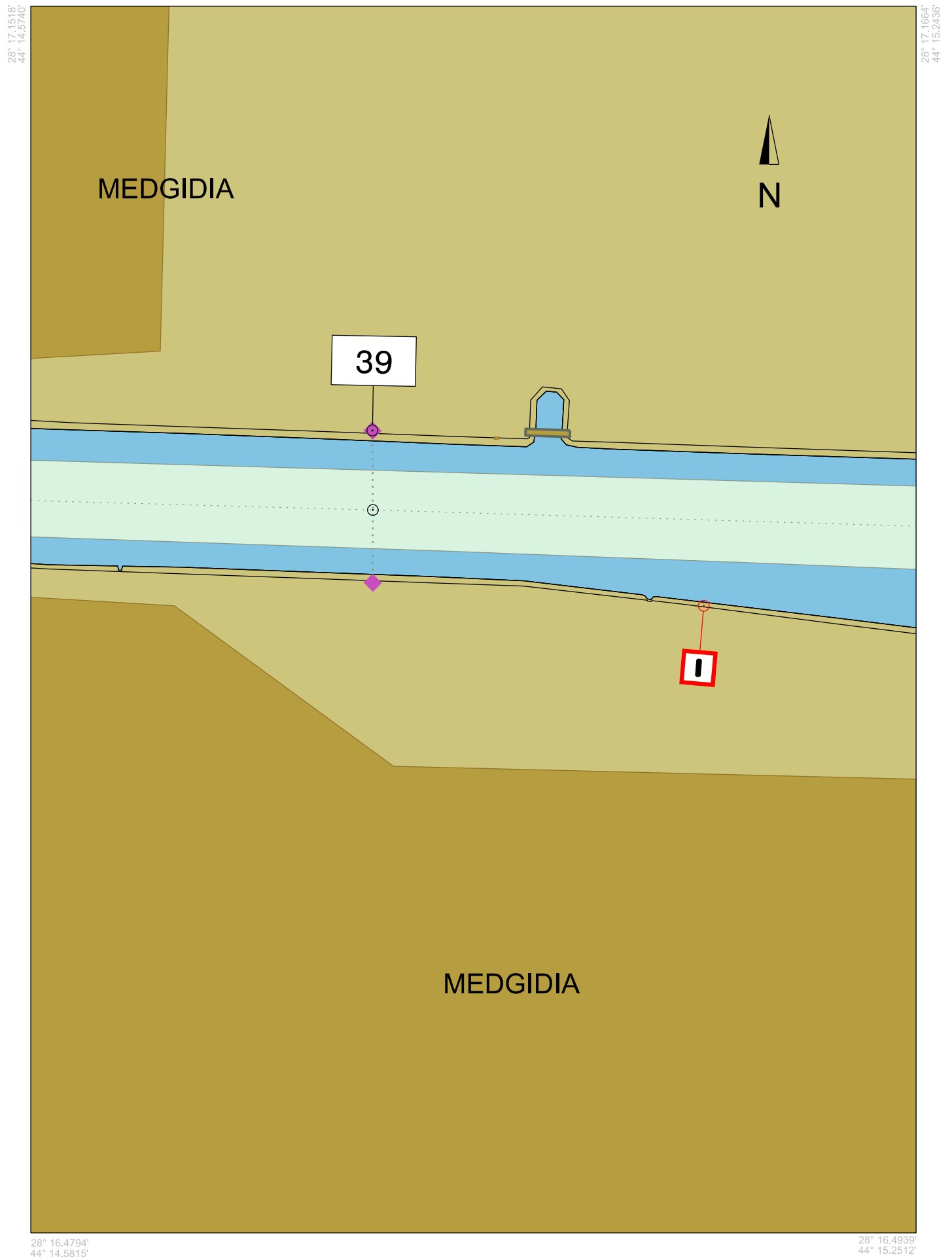
MEDGIDIA

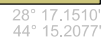
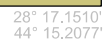
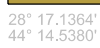
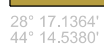
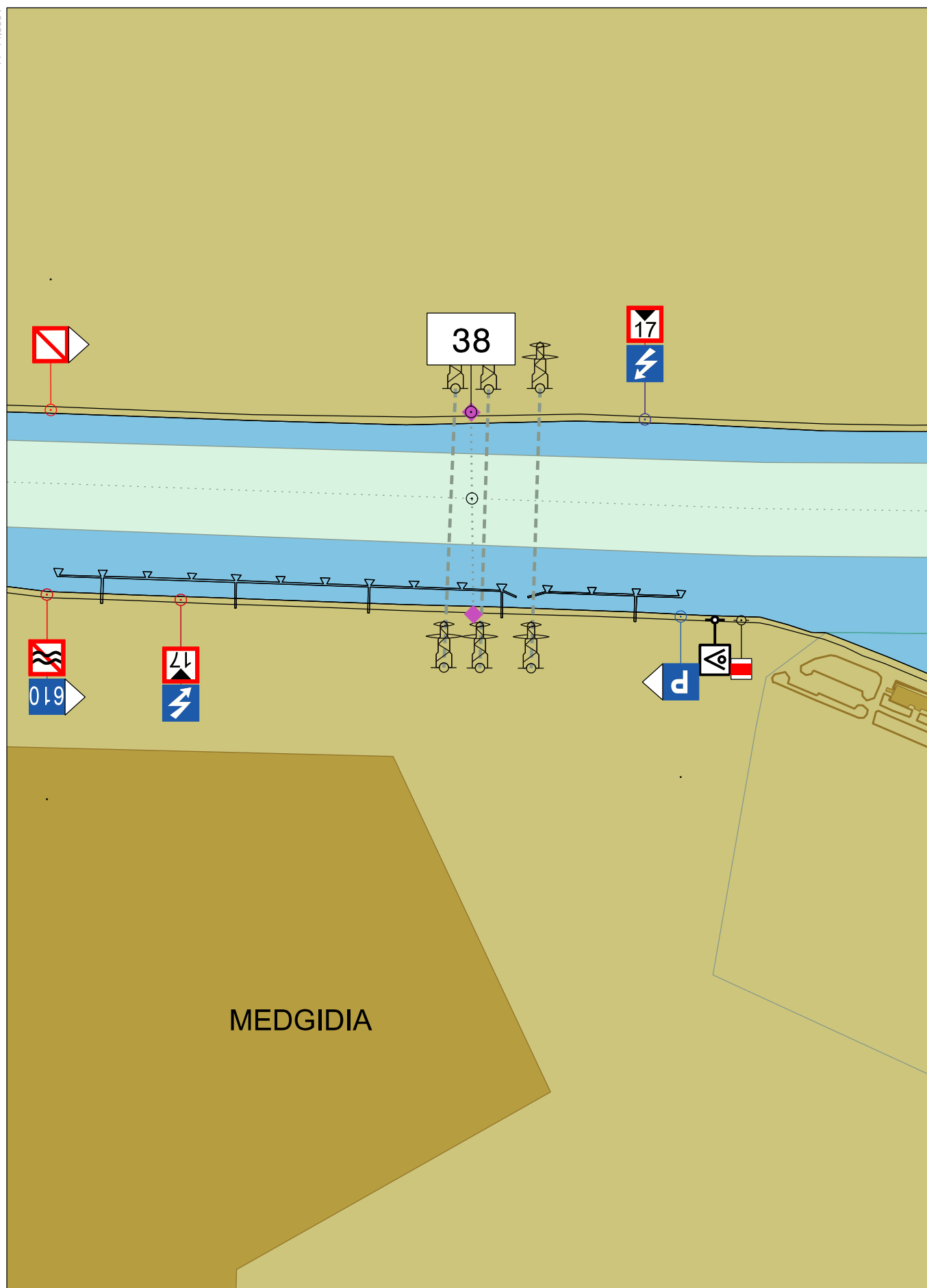
40

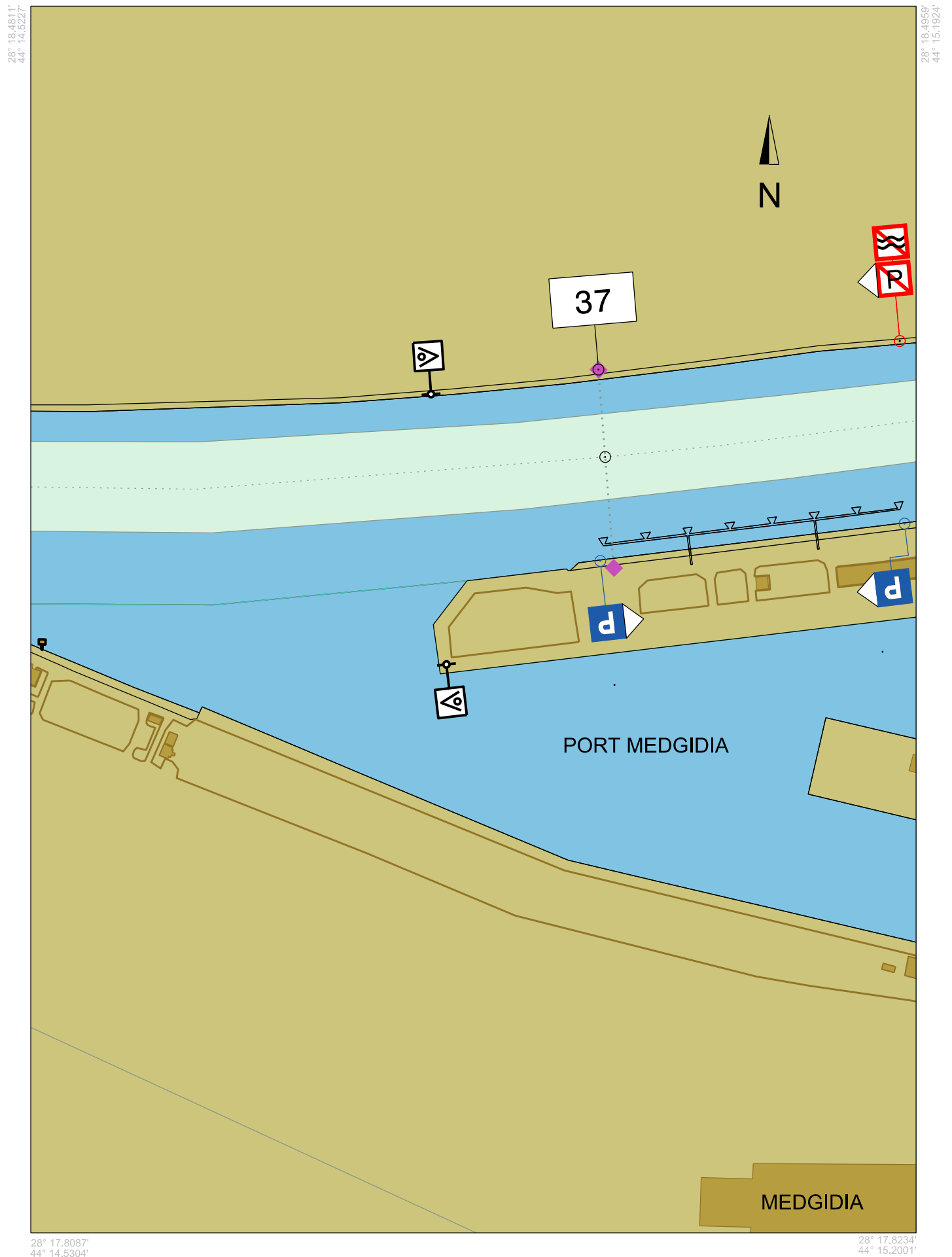
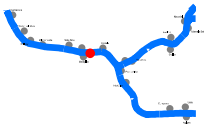
MEDGIDIA

28° 15.8070'
44° 14.5890'

28° 15.8214'
44° 15.2587'







0 m

500 m

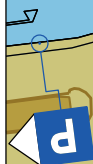
28° 19.1299'
44° 14.6047'

28° 19.1449'
44° 15.2743'

POD C.F. MEDGIDIA Km 36,322
1 : 5000



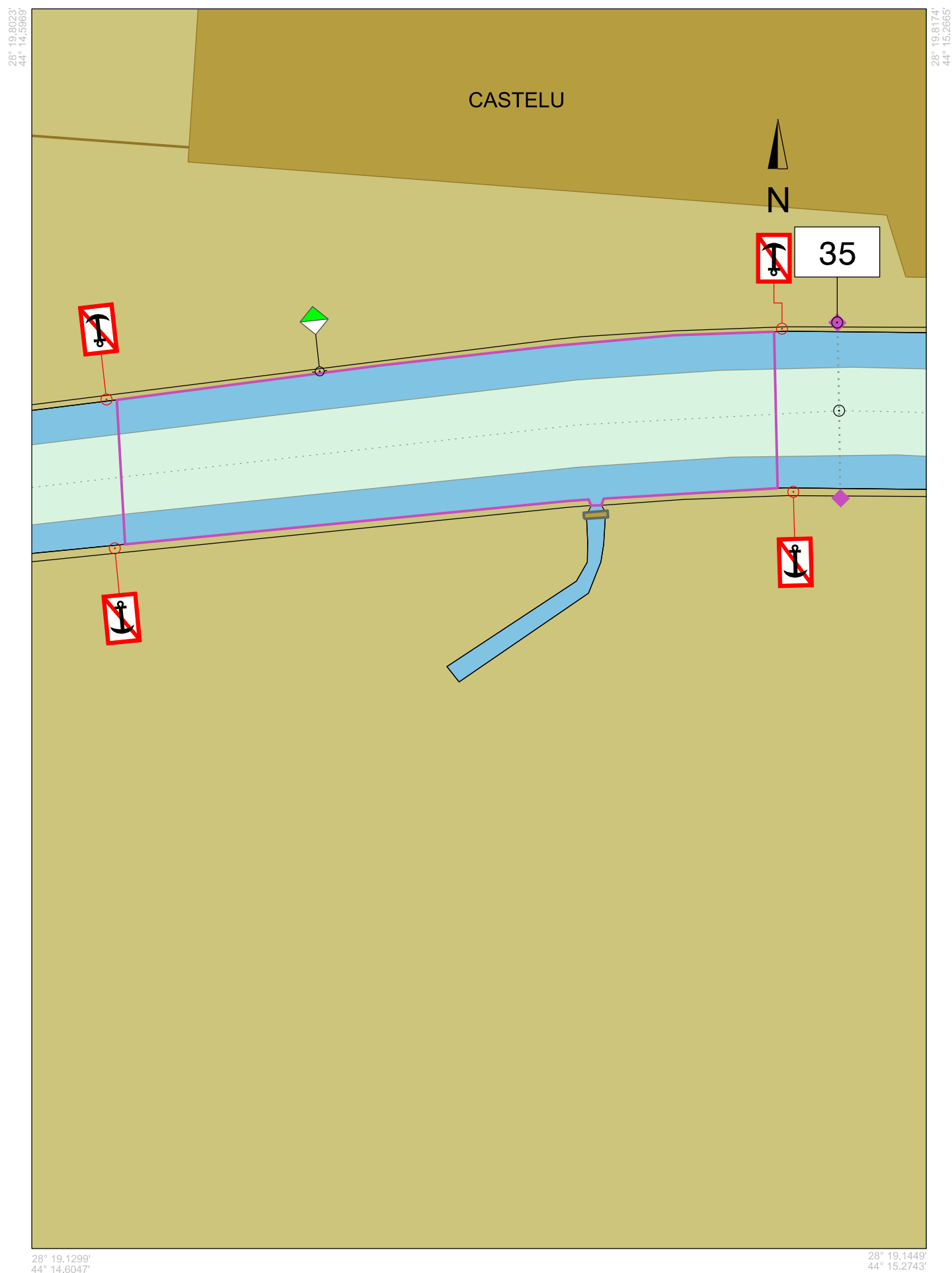
36



PORT
MEDGIDIA

28° 18.4575'
44° 14.6124'

28° 18.4724'
44° 15.2820'



0 m

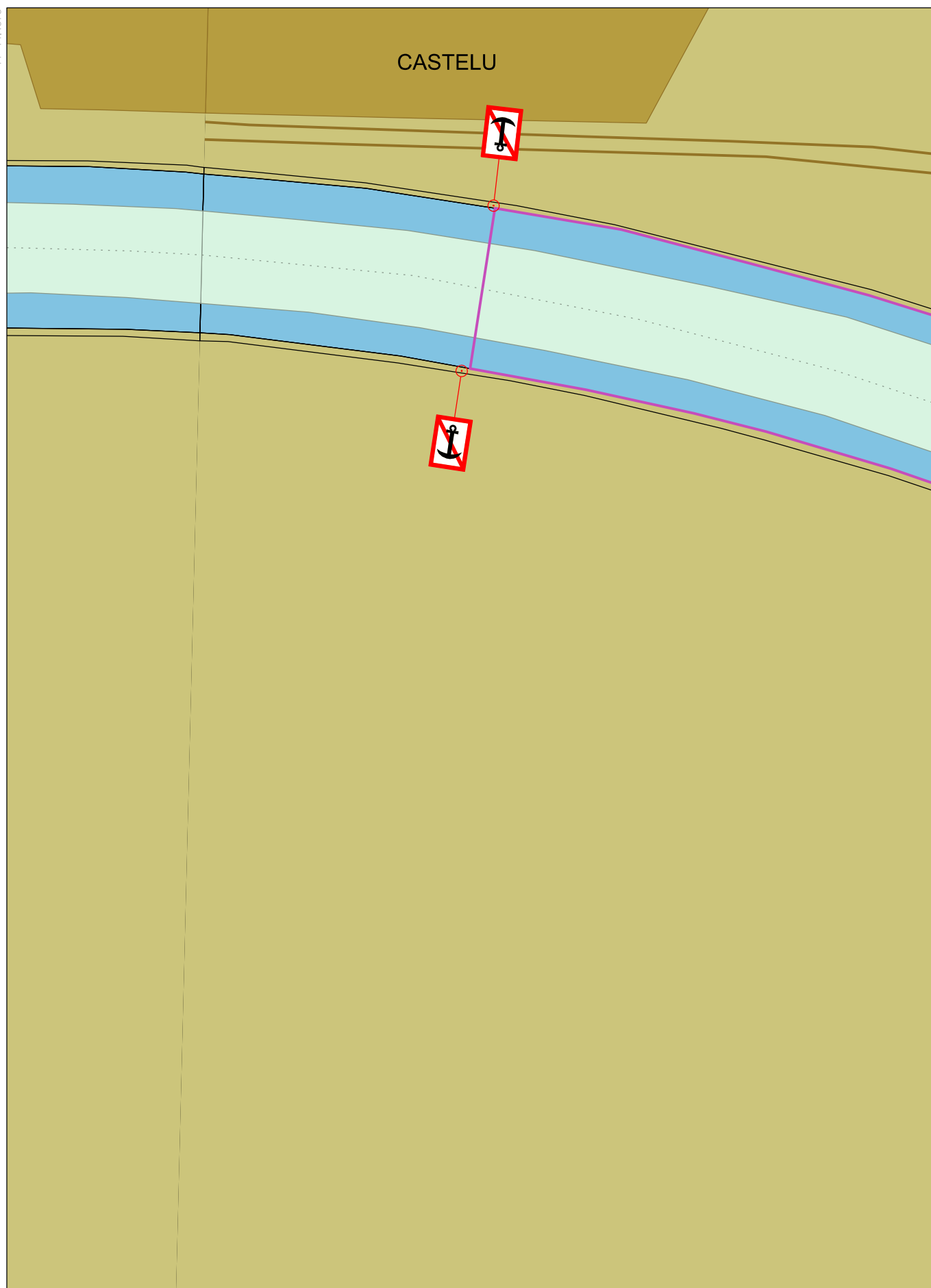
500 m



28° 20.4328'
44° 14.4973'

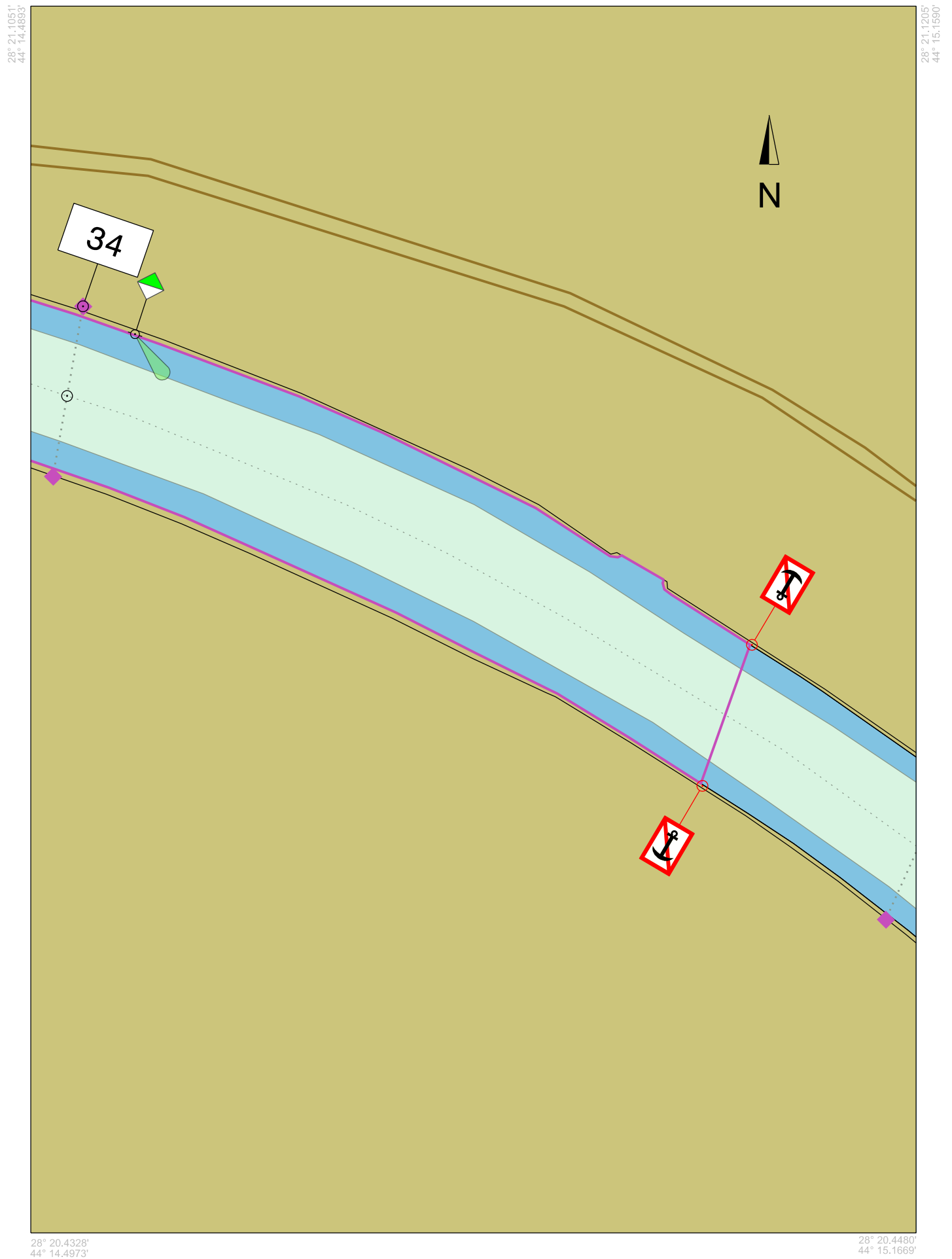
28° 20.4430'
44° 15.1669'

CASTELU



28° 19.7604'
44° 14.5051'

28° 19.7755'
44° 15.1748'



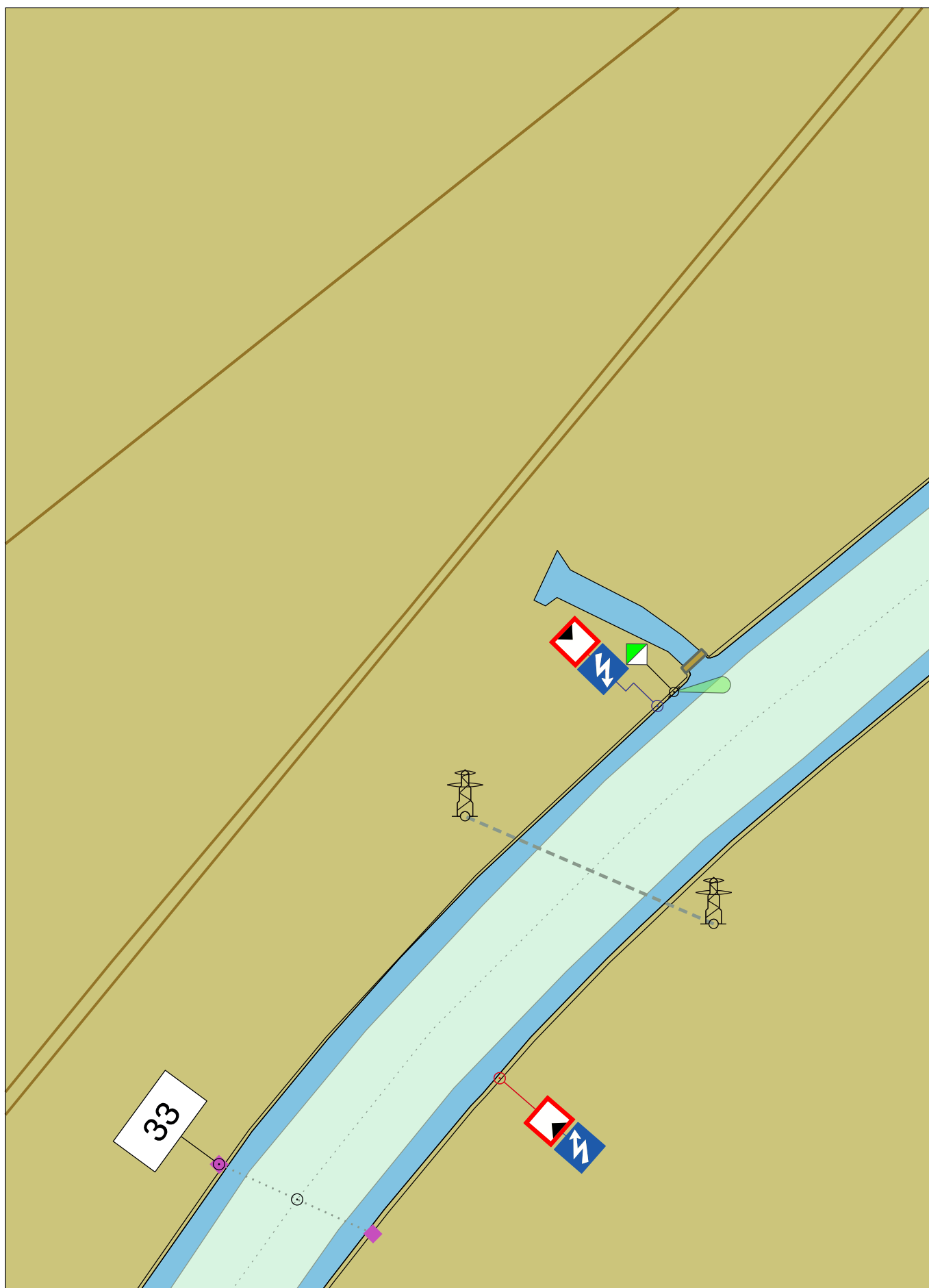
0 m

500 m



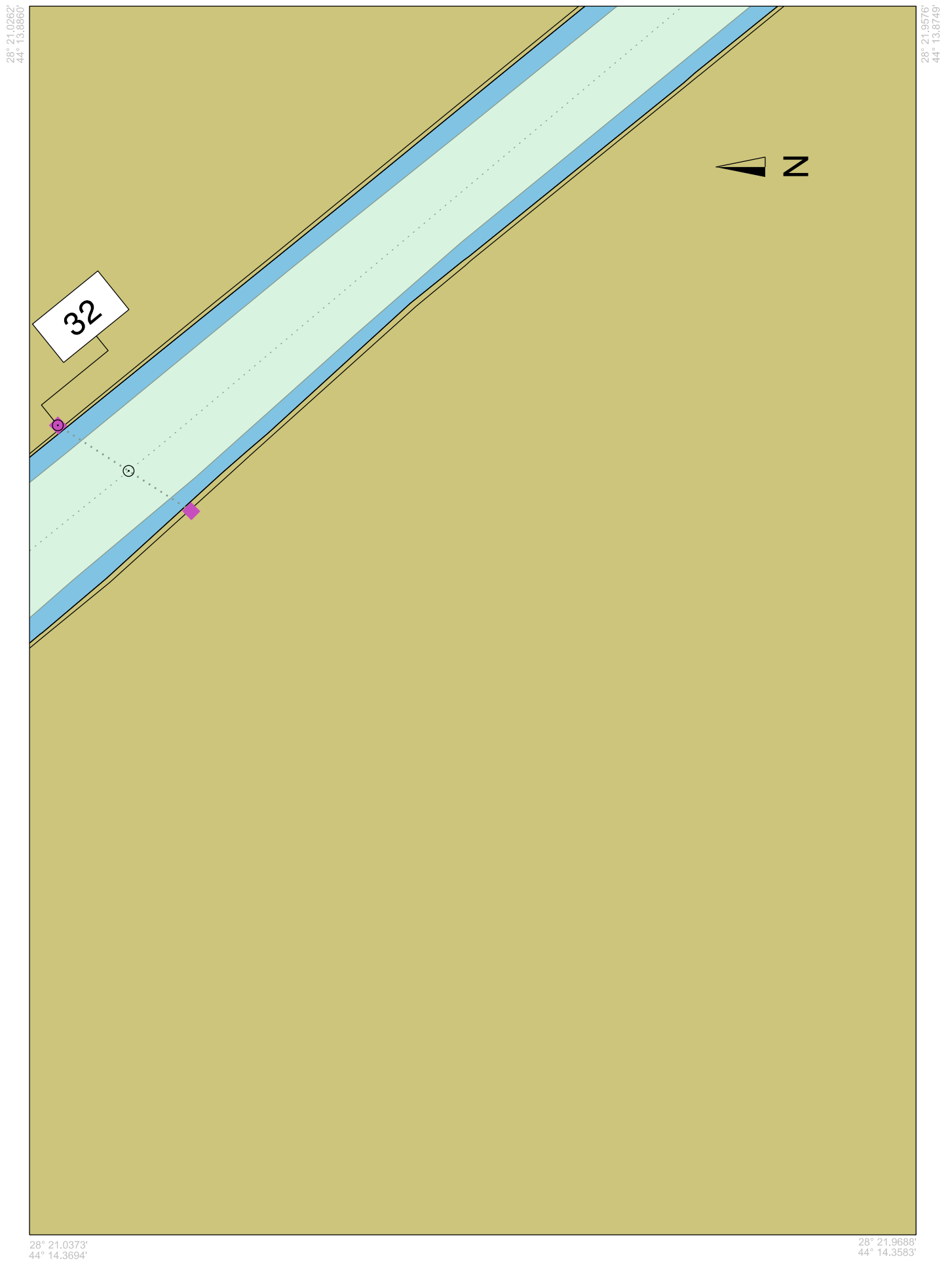
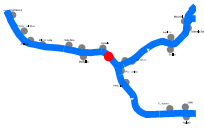
28° 21.0373'
44° 14.3694'

28° 21.9688'
44° 14.3583'



28° 21.0483'
44° 14.8527'

28° 21.9799'
44° 14.8416'



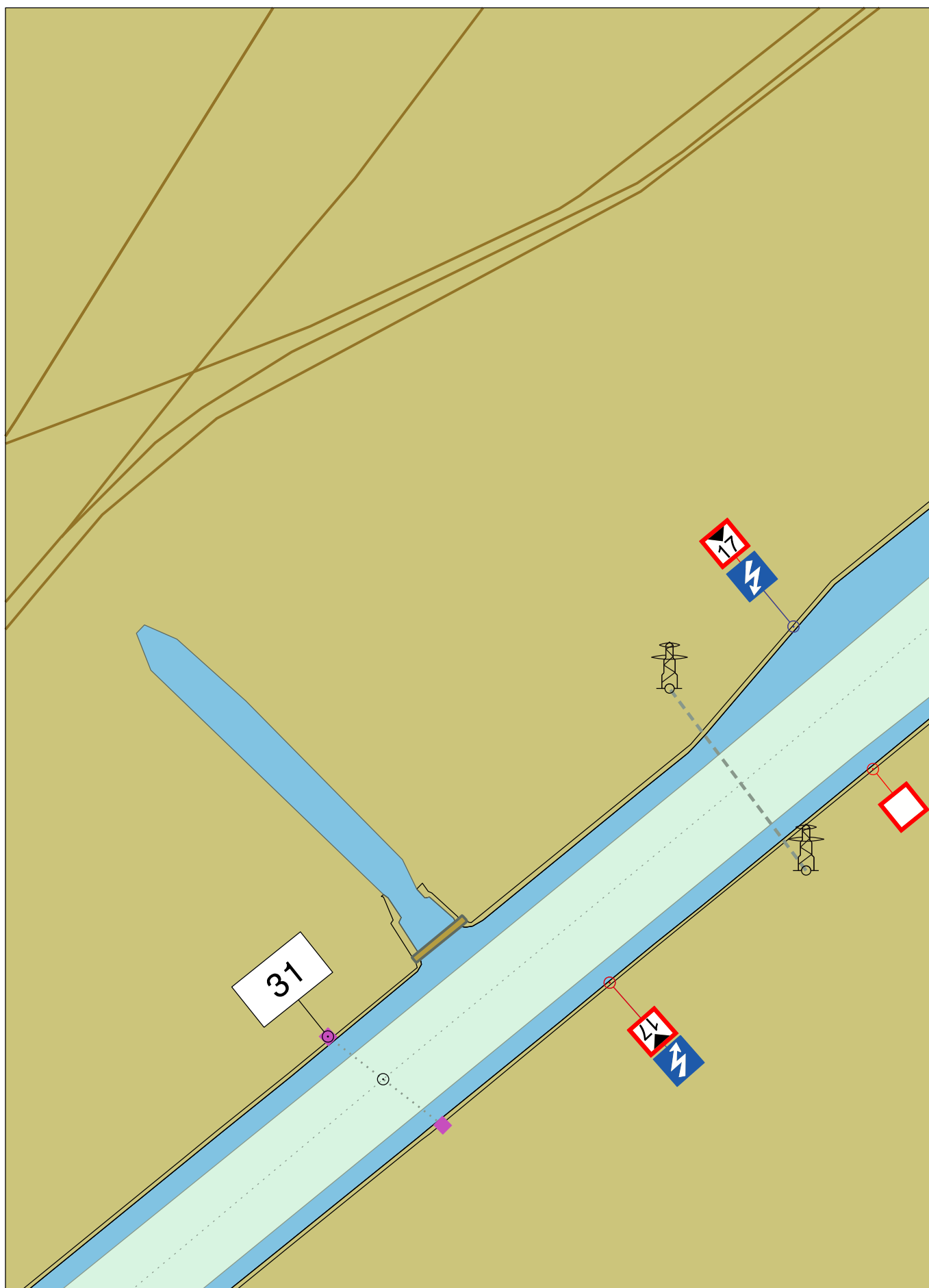
0 m

500 m



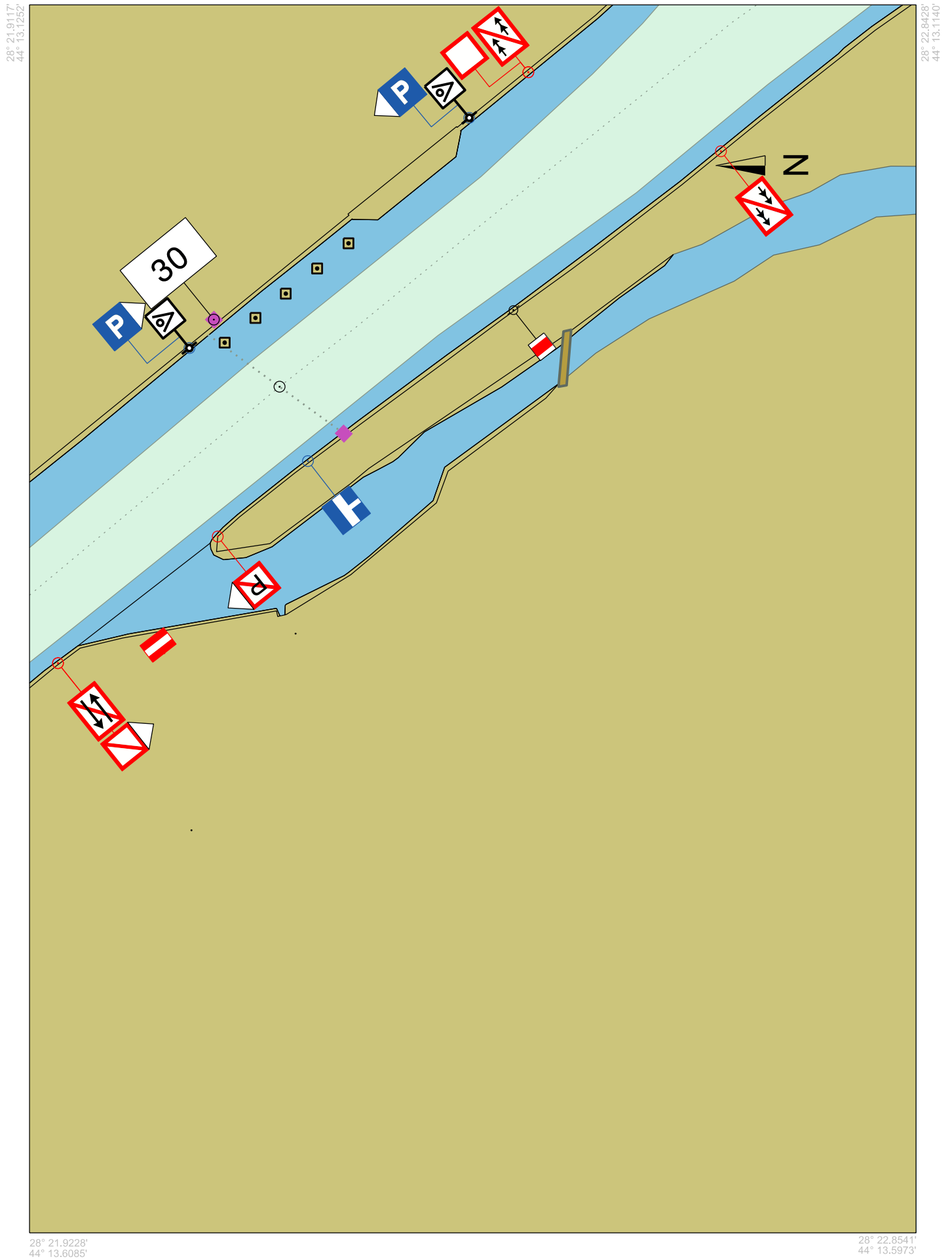
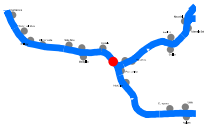
28° 21.9228'
44° 13.6085'

28° 22.8541'
44° 13.5973'



28° 21.9340'
44° 14.0919'

28° 22.8654'
44° 14.0807'



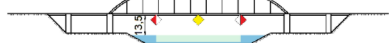
0 m

500 m

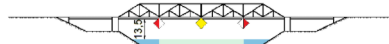
28° 22.6065'
44° 12.8162'

28° 23.5375'
44° 12.8049'

POD RUTIER - DN 22C POARTA ALBA Km 26,437
1:5000



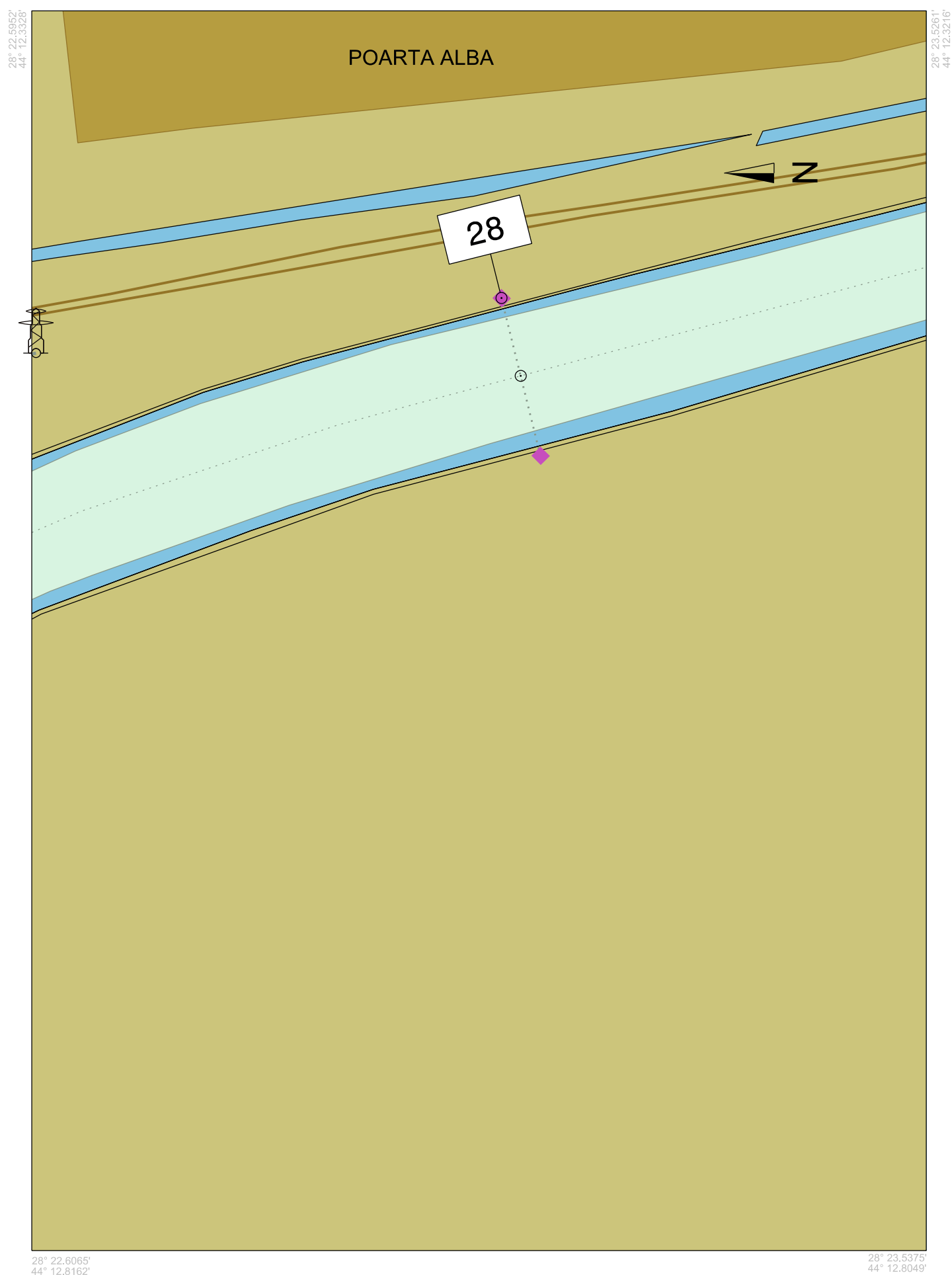
POD C.F. POARTA ALBA Km 26,550
1:5000



29

28° 22.6177'
44° 13.2995'

28° 23.5489'
44° 13.2882'



0 m

500 m

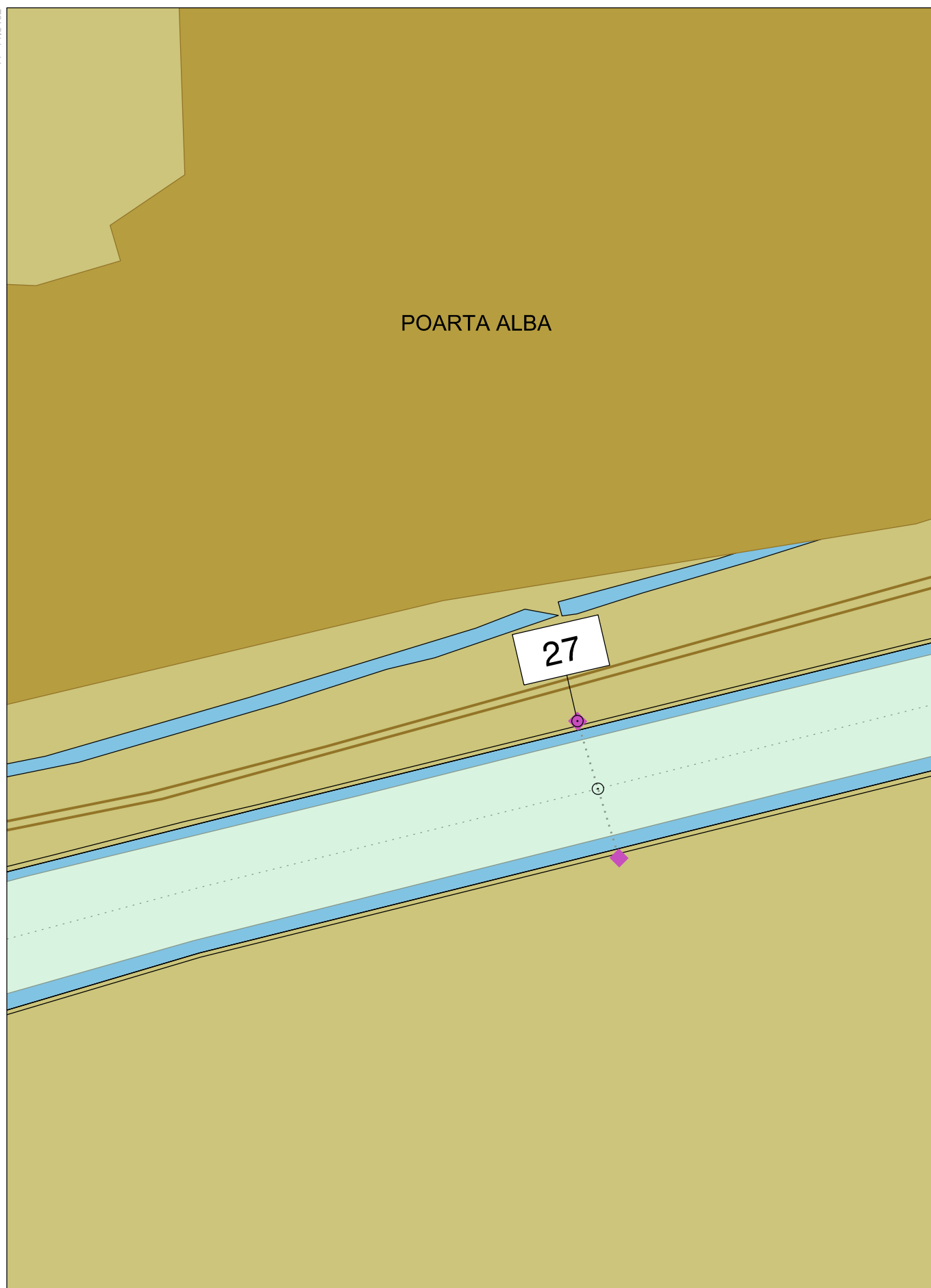


28° 23.0658'
44° 11.8462'

28° 23.9966'
44° 11.8349'

POARTA ALBA

27



28° 23.0771'
44° 12.3296'

28° 24.0080'
44° 12.3182'

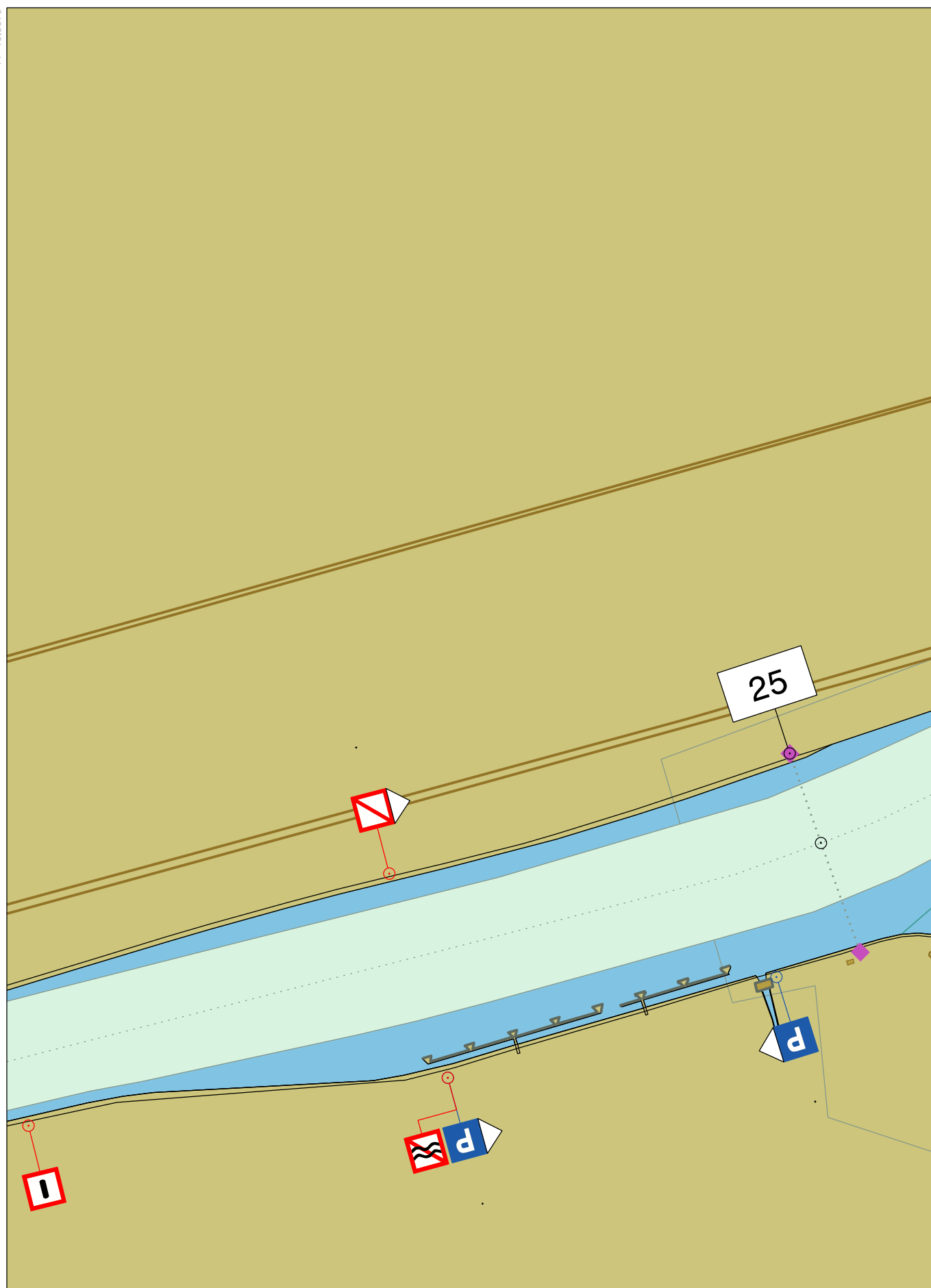
0 m

500 m



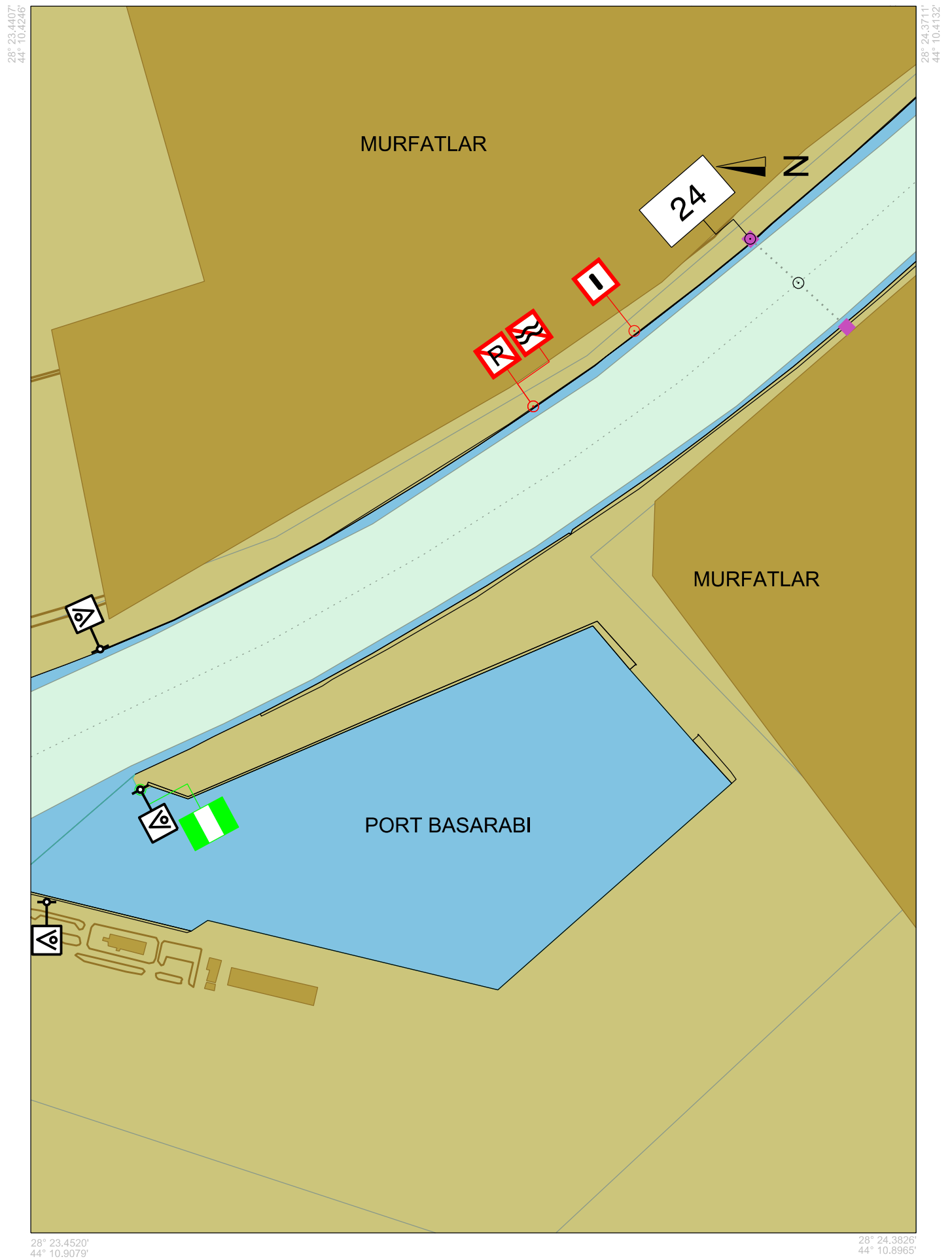
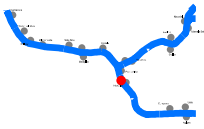
28° 23.4520'
44° 10.9079'

28° 24.3826'
44° 10.8965'



28° 23.4634'
44° 11.3912'

28° 24.3941'
44° 11.3798'



0 m

500 m

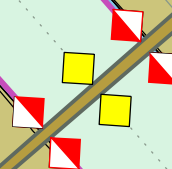


28° 24.5589'
44° 9.7604'

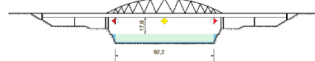
28° 24.5749'
44° 10.4300'

MURFATLAR

MURFATLAR

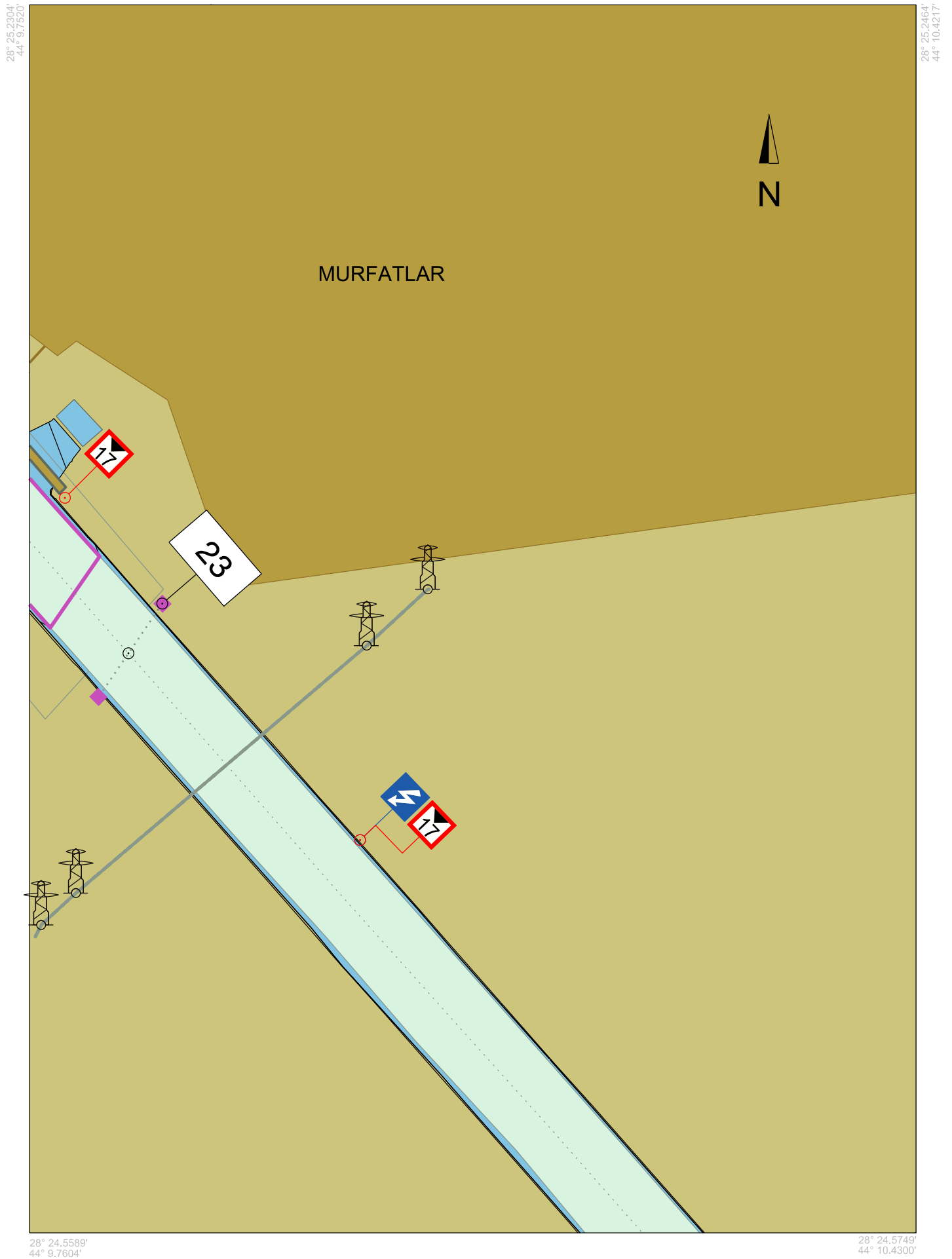
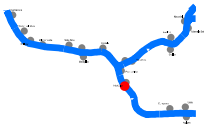


POD RUTIER - DN3 MURFATLAR Km 23.282
1:5000



28° 23.8875'
44° 9.7686'

28° 23.9033'
44° 10.4383'



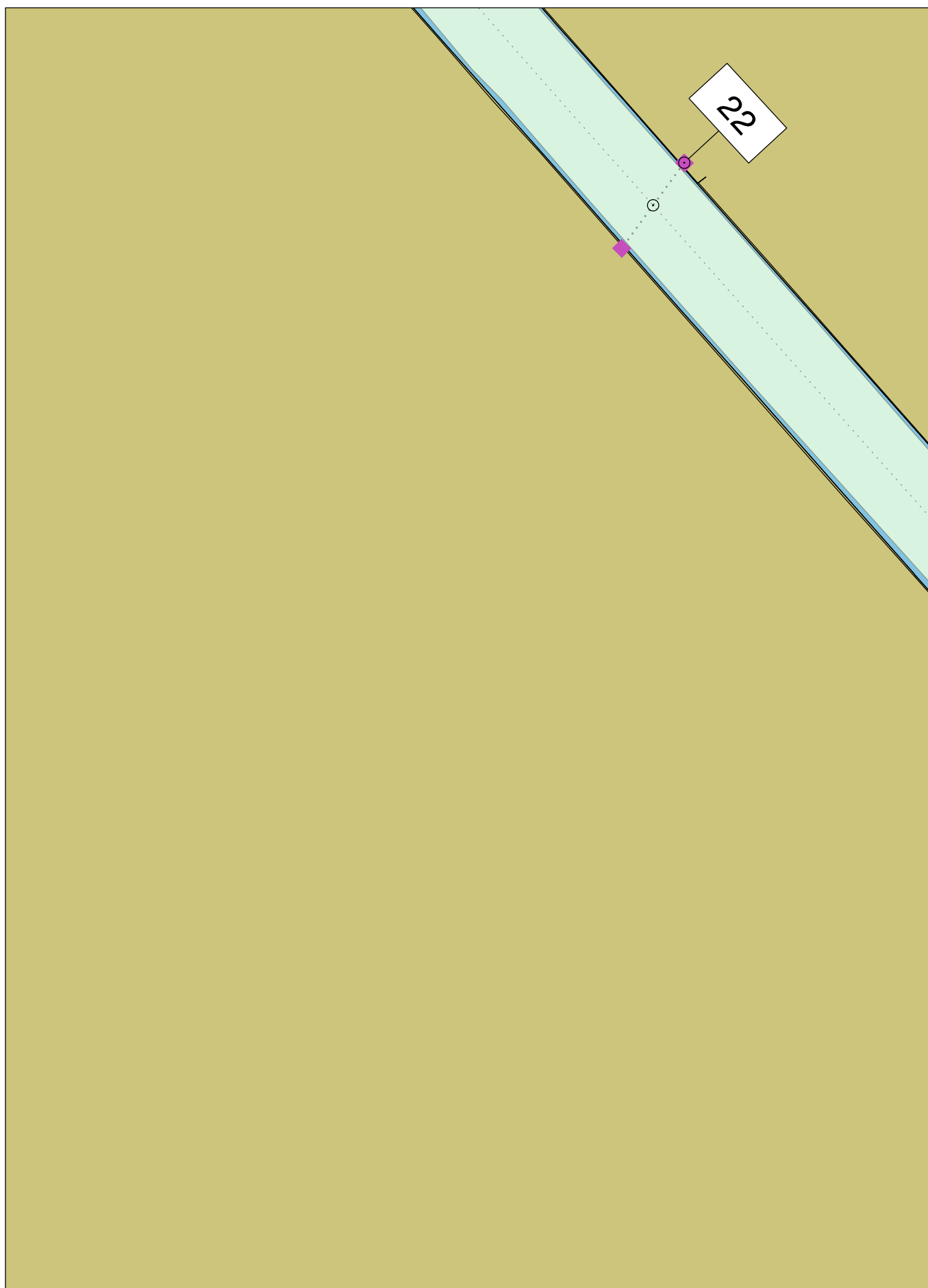
0 m

500 m



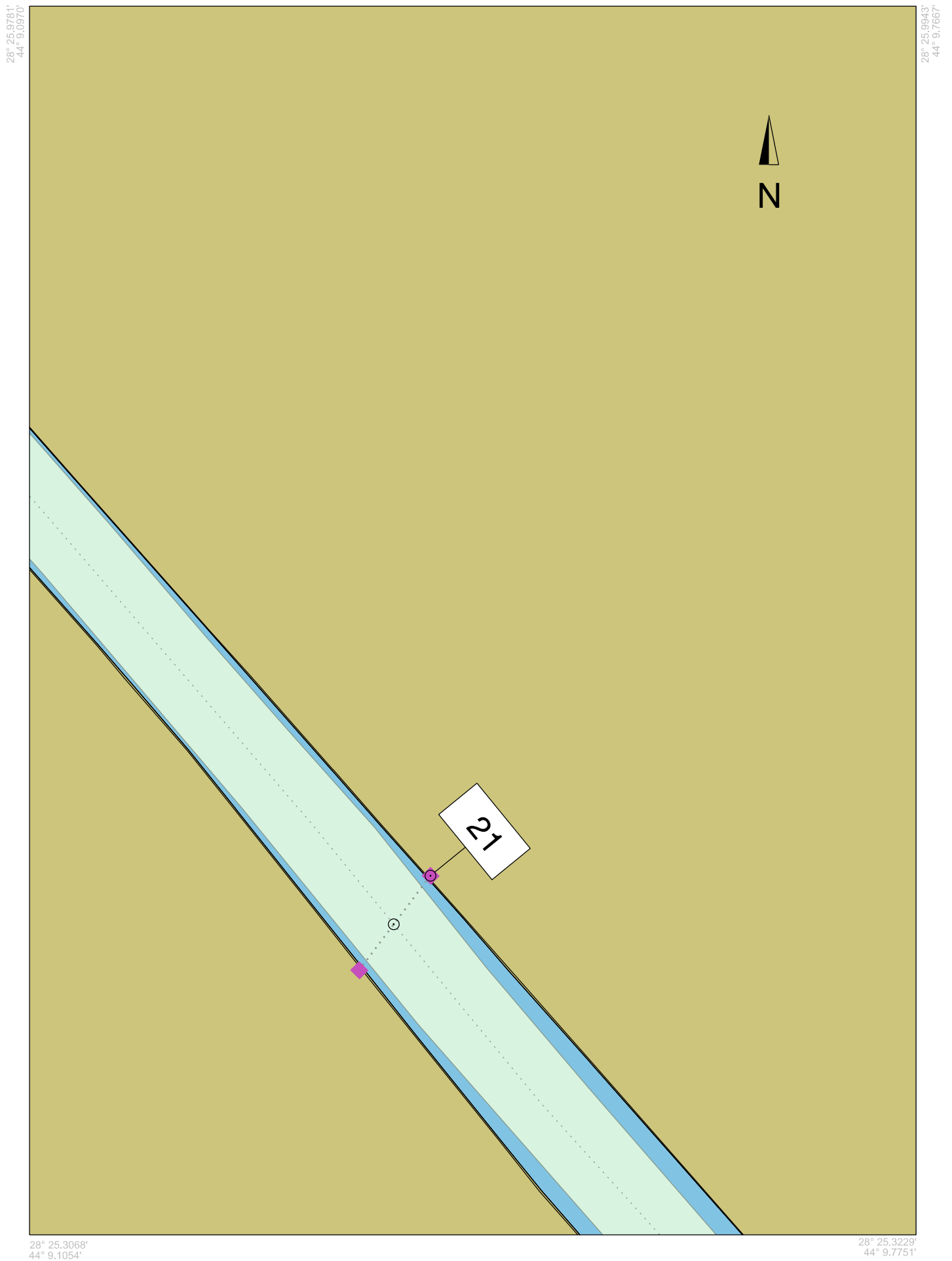
28° 25.3068'
44° 9.1054'

28° 25.3229'
44° 9.7751'



28° 24.6355'
44° 9.1137'

28° 24.6515'
44° 9.7834'



0 m

500 m



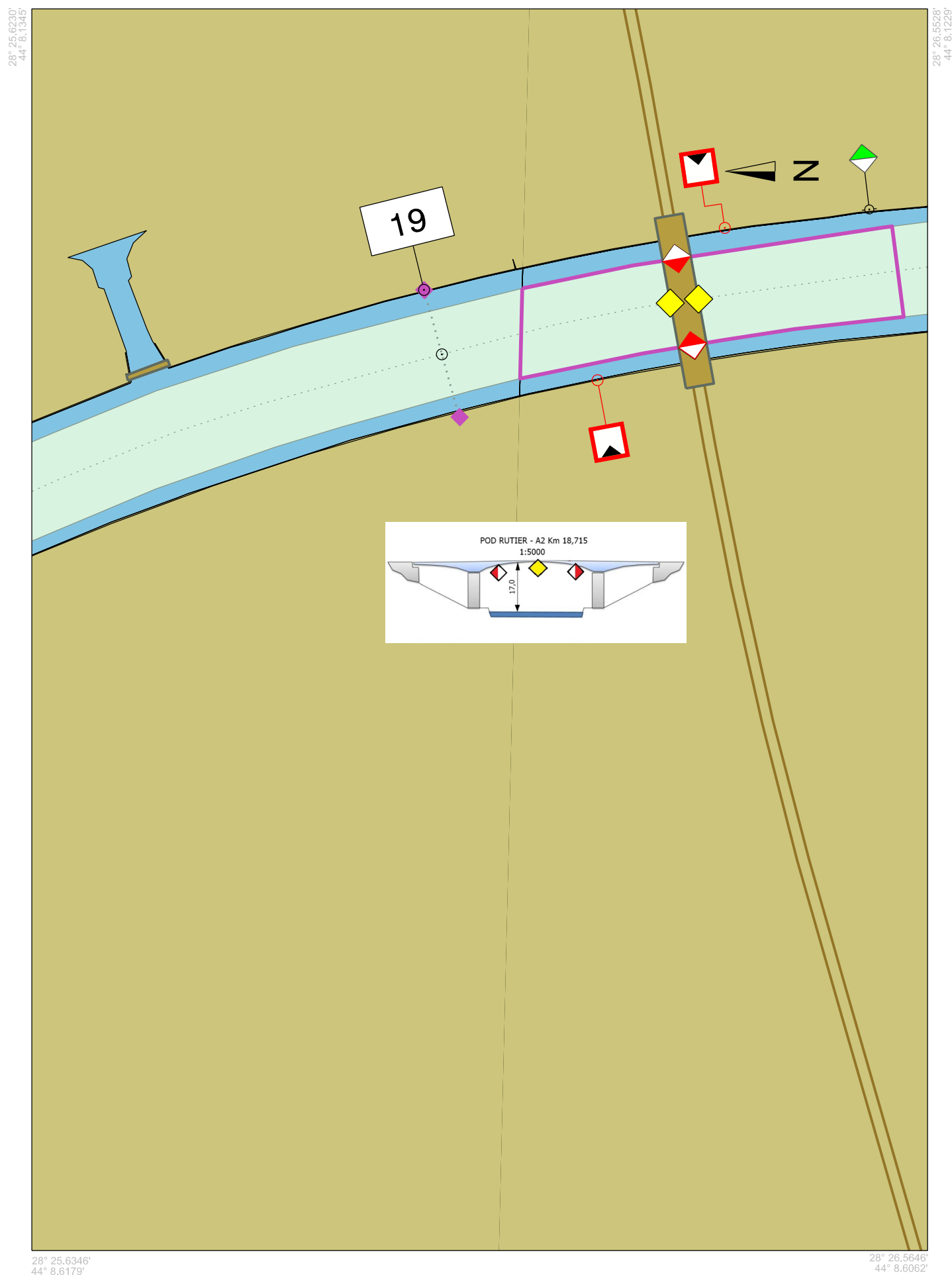
28° 25.6346'
44° 8.6179'

28° 26.5646'
44° 8.6062'



28° 25.6463'
44° 9.1012'

28° 26.5763'
44° 9.0895'



0 m

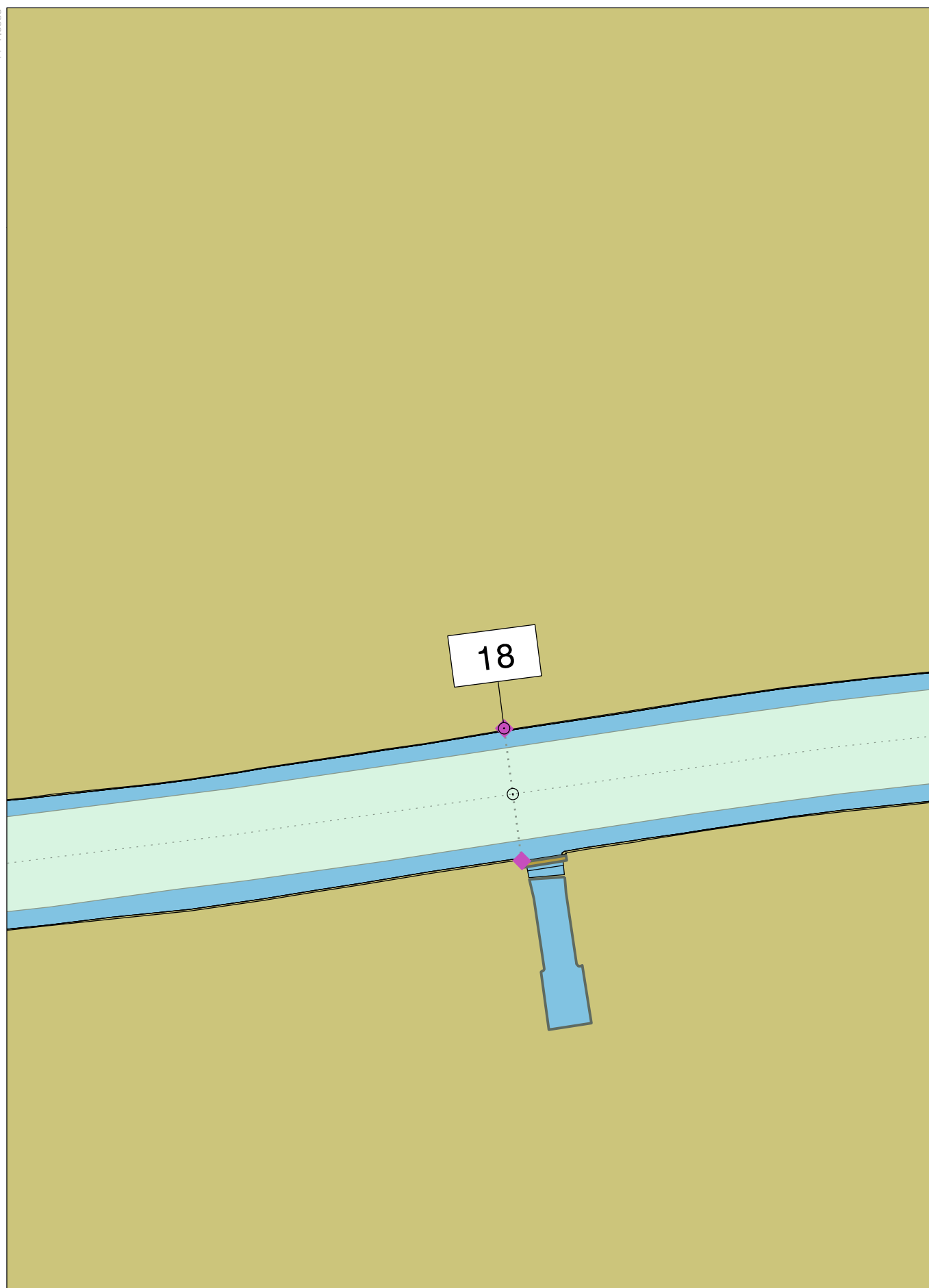
500 m



28° 26.0358'
44° 7.6583'

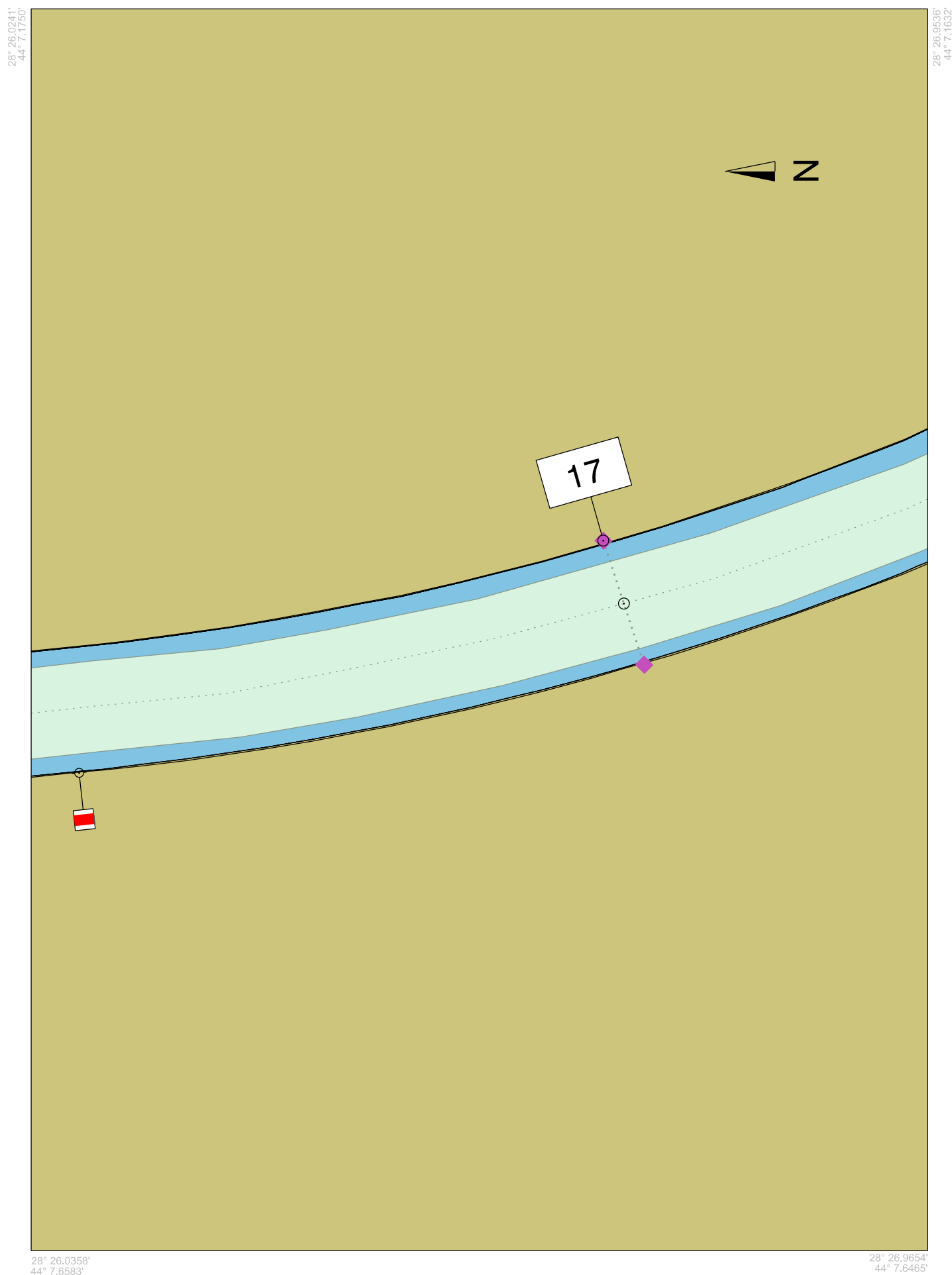
28° 26.9654'
44° 7.6465'

18



28° 26.0475'
44° 8.1416'

28° 26.9773'
44° 8.1299'



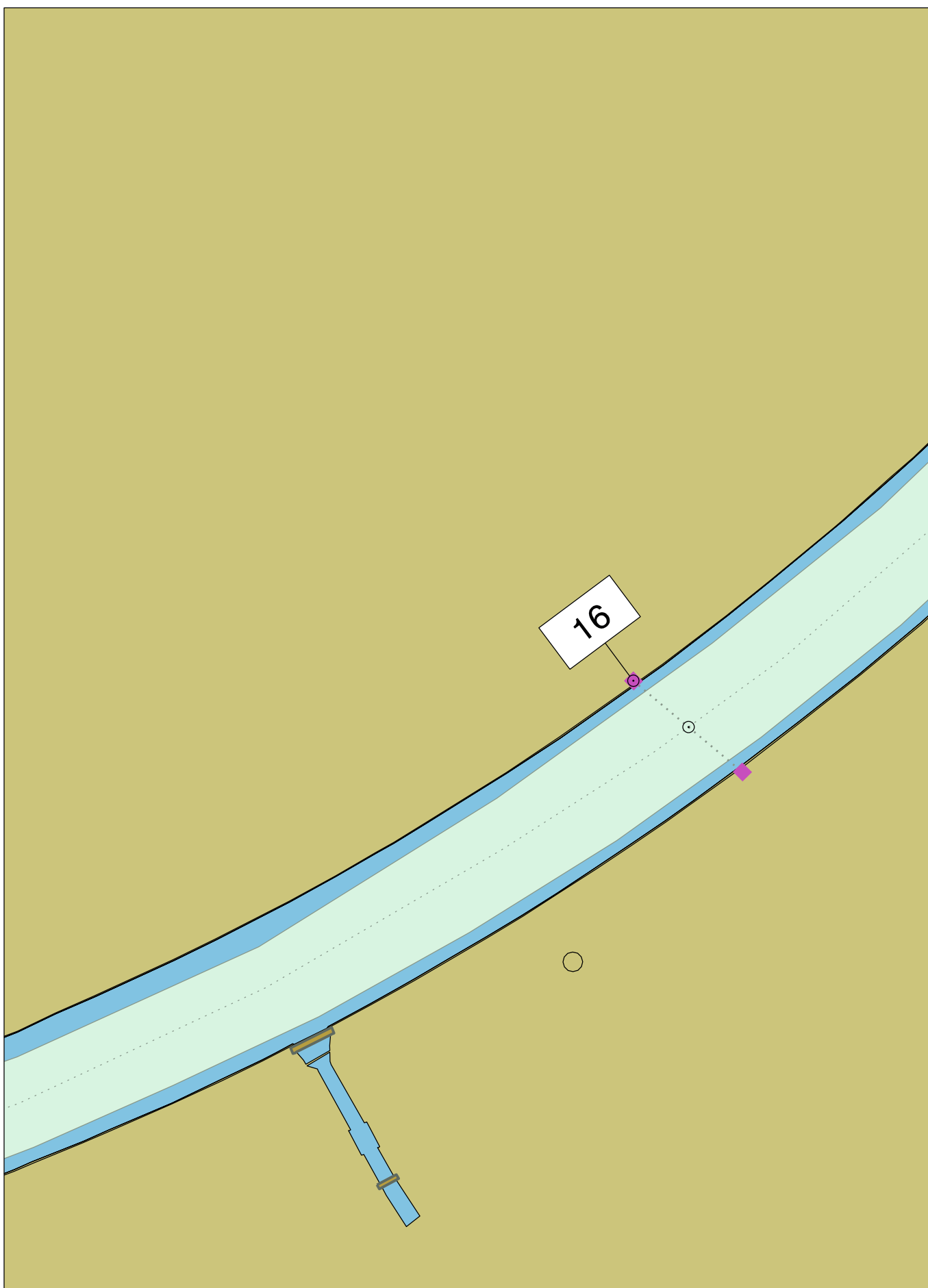
0 m

500 m



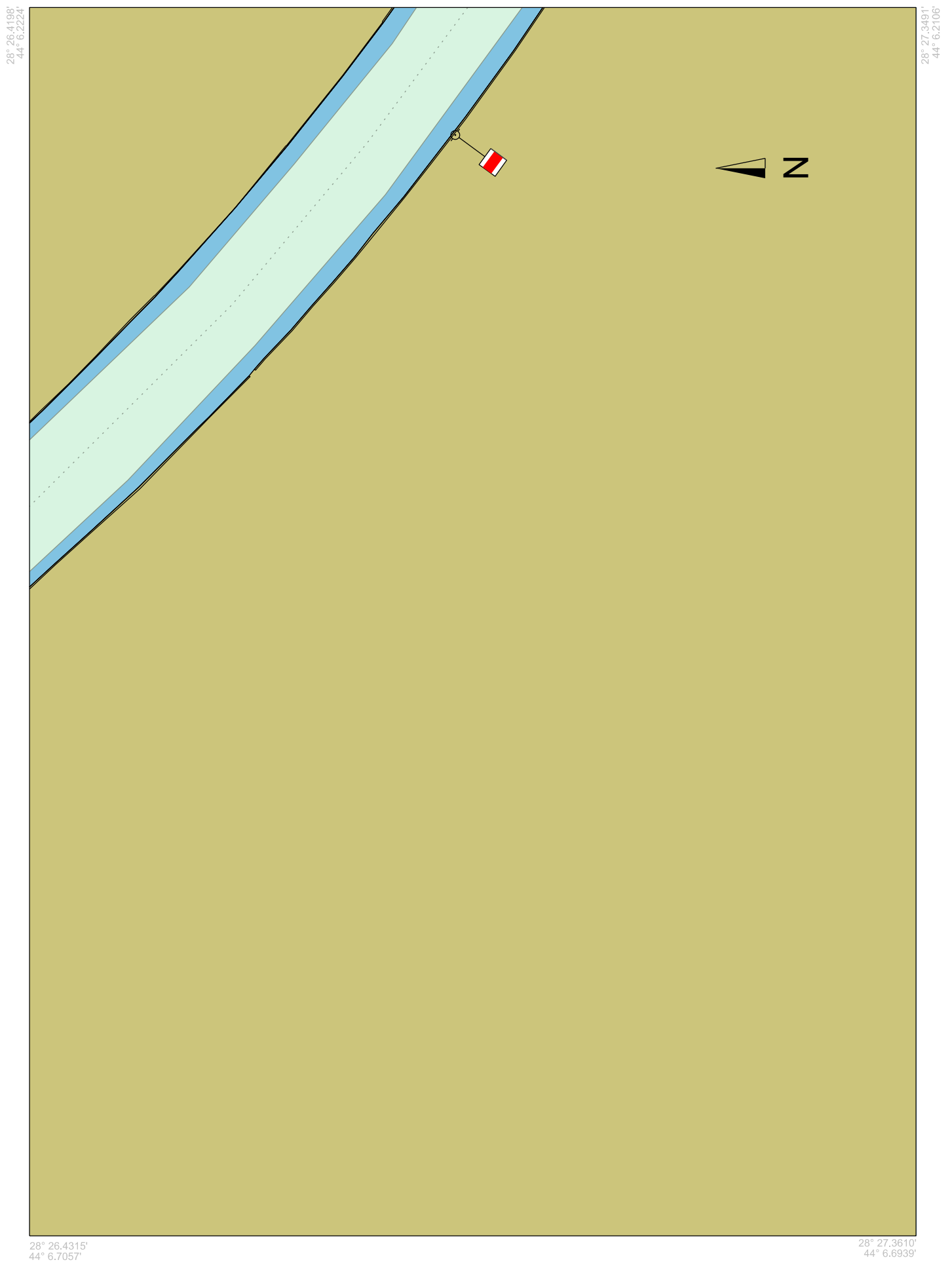
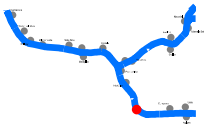
28° 26.4315'
44° 6.7057'

28° 27.3610'
44° 6.6939'



28° 26.4433'
44° 7.1890'

28° 27.3728'
44° 7.1772'



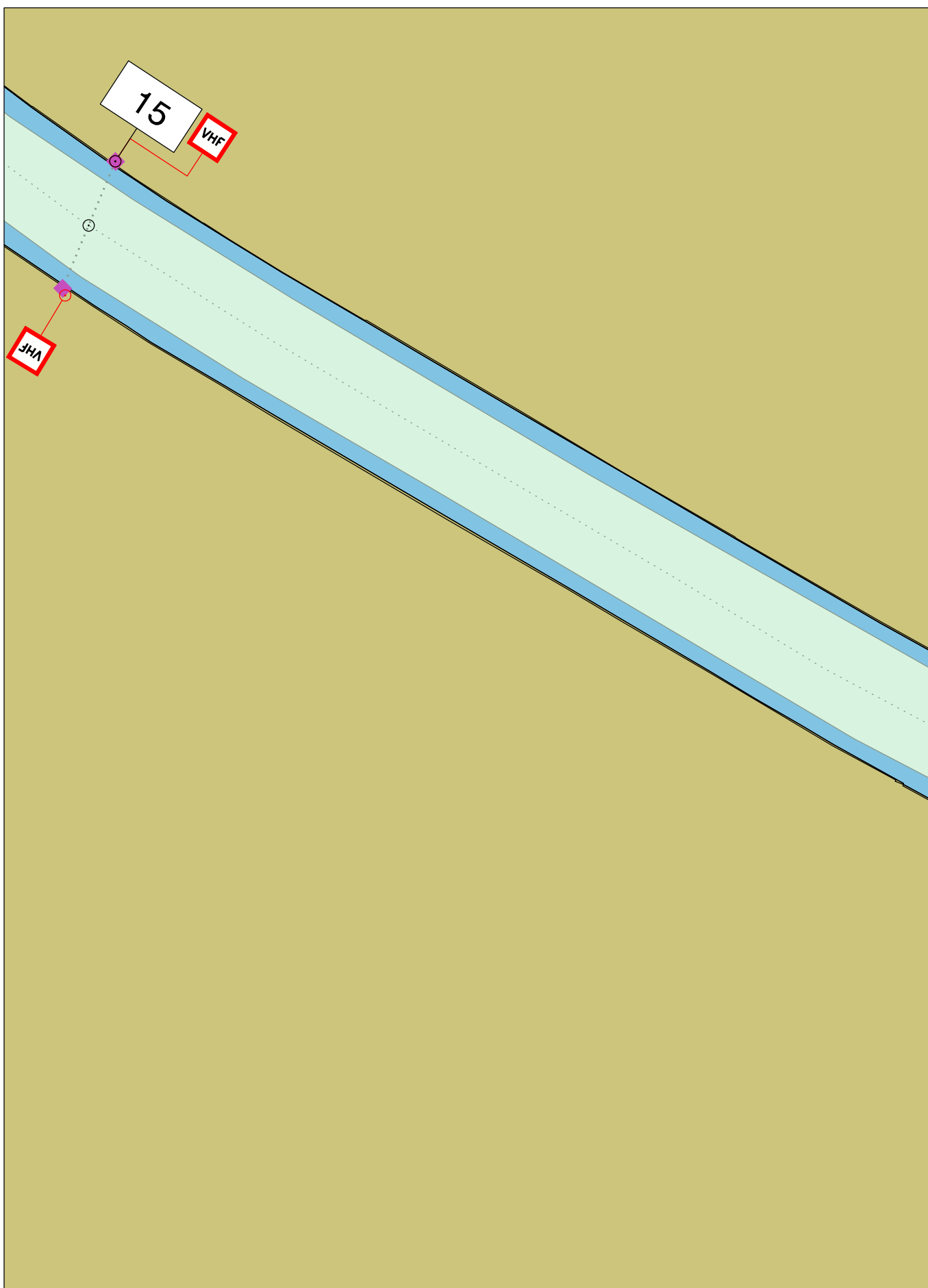
0 m

500 m



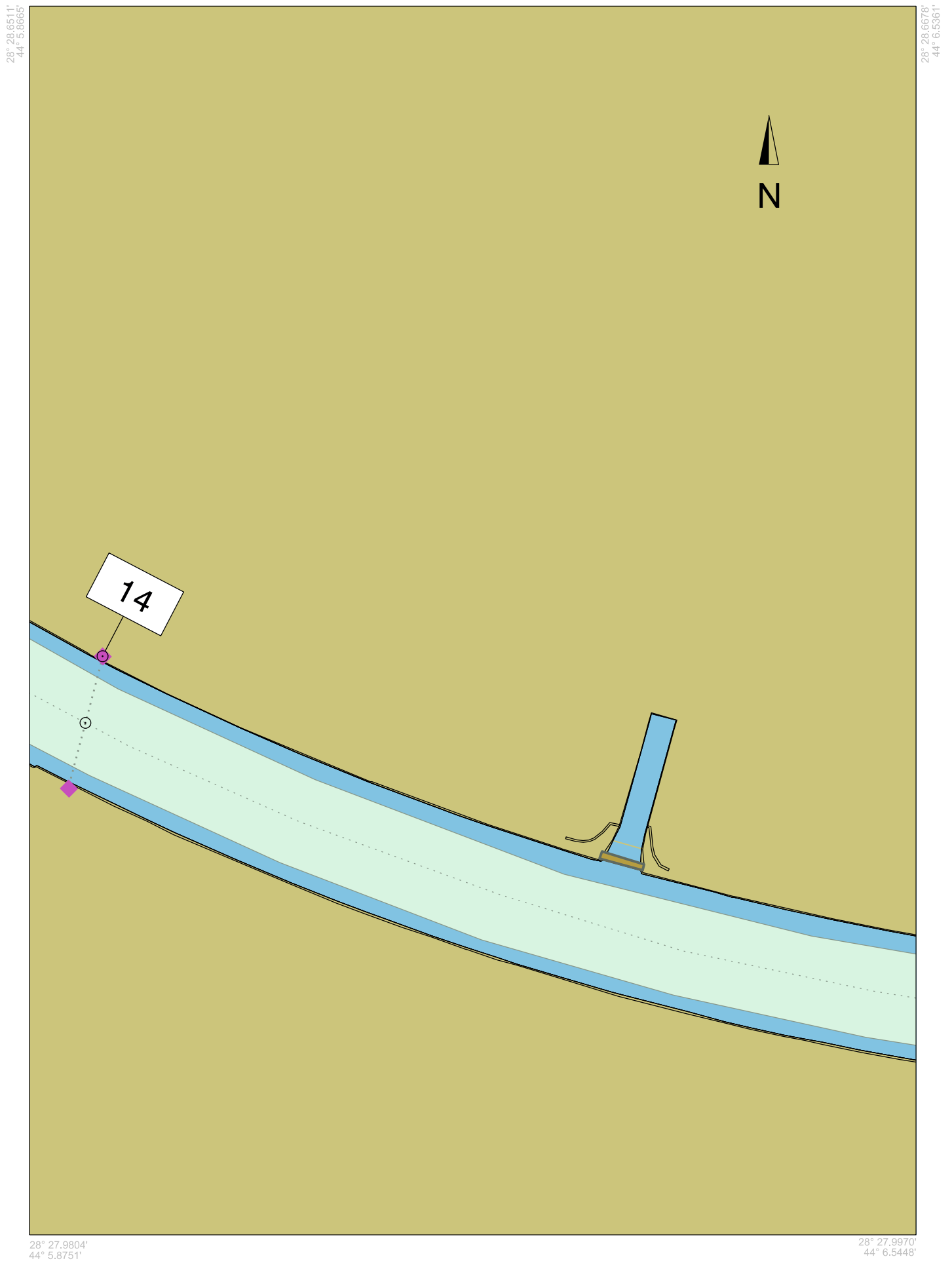
28° 27' 9804"
44° 5' 8751"

28° 27' 9970"
44° 6' 5448"



28° 27' 3098"
44° 5' 8837"

28° 27' 3262"
44° 6' 5533"



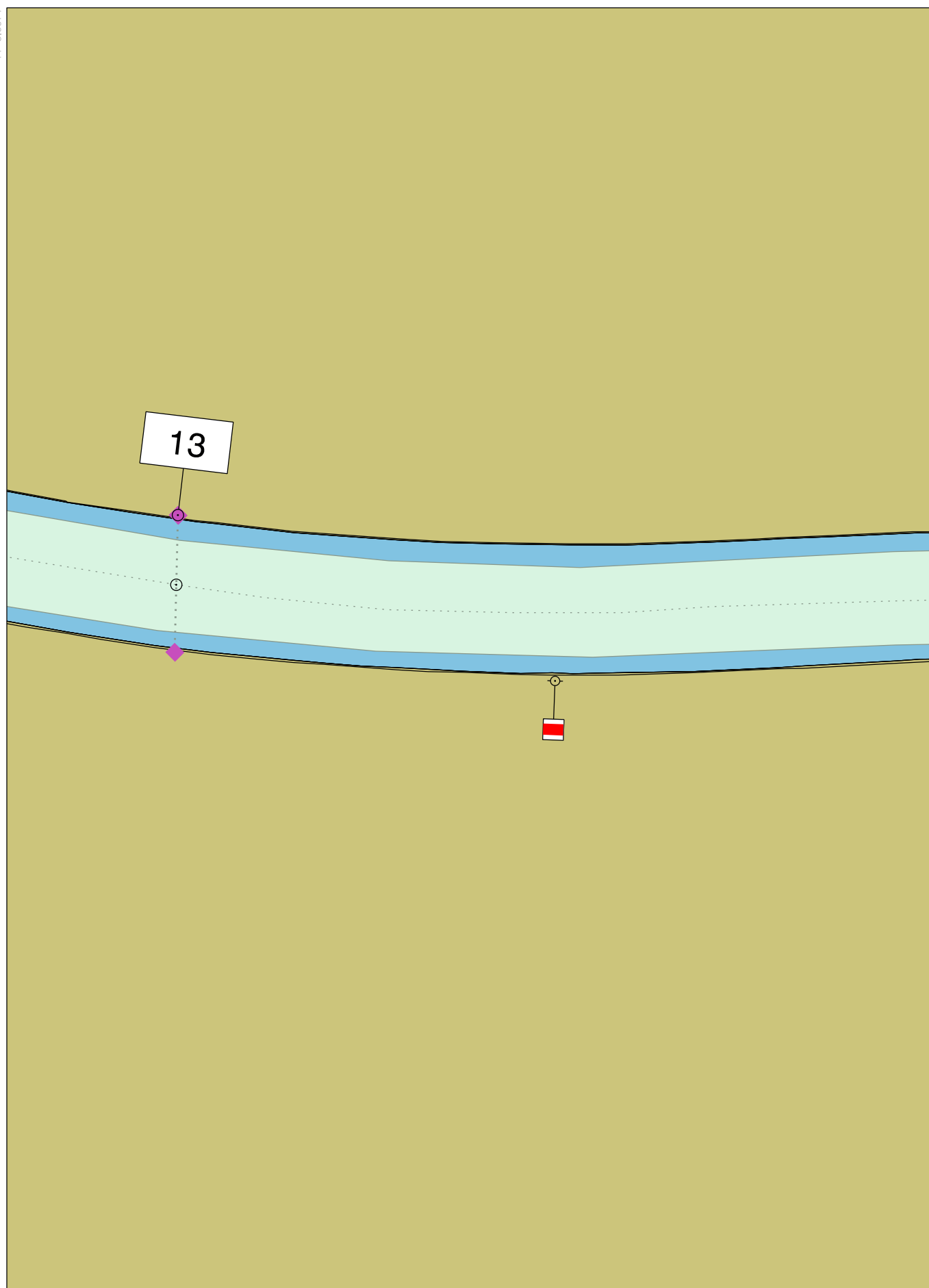
0 m

500 m



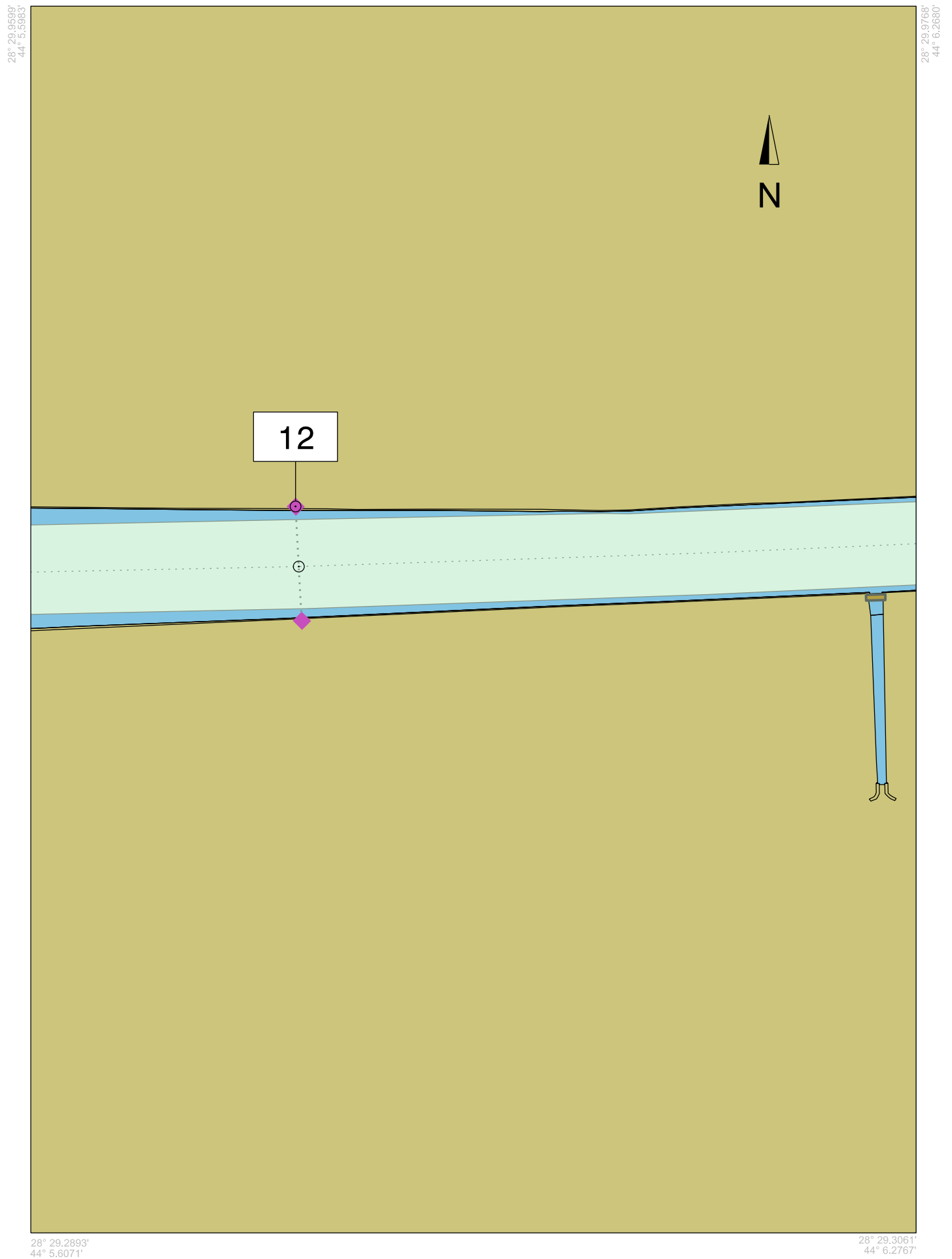
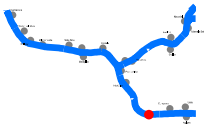
28° 29.2893'
44° 5.6071'

28° 29.3061'
44° 6.2767'



28° 28.6186'
44° 5.6158'

28° 28.6353'
44° 6.2854'



0 m

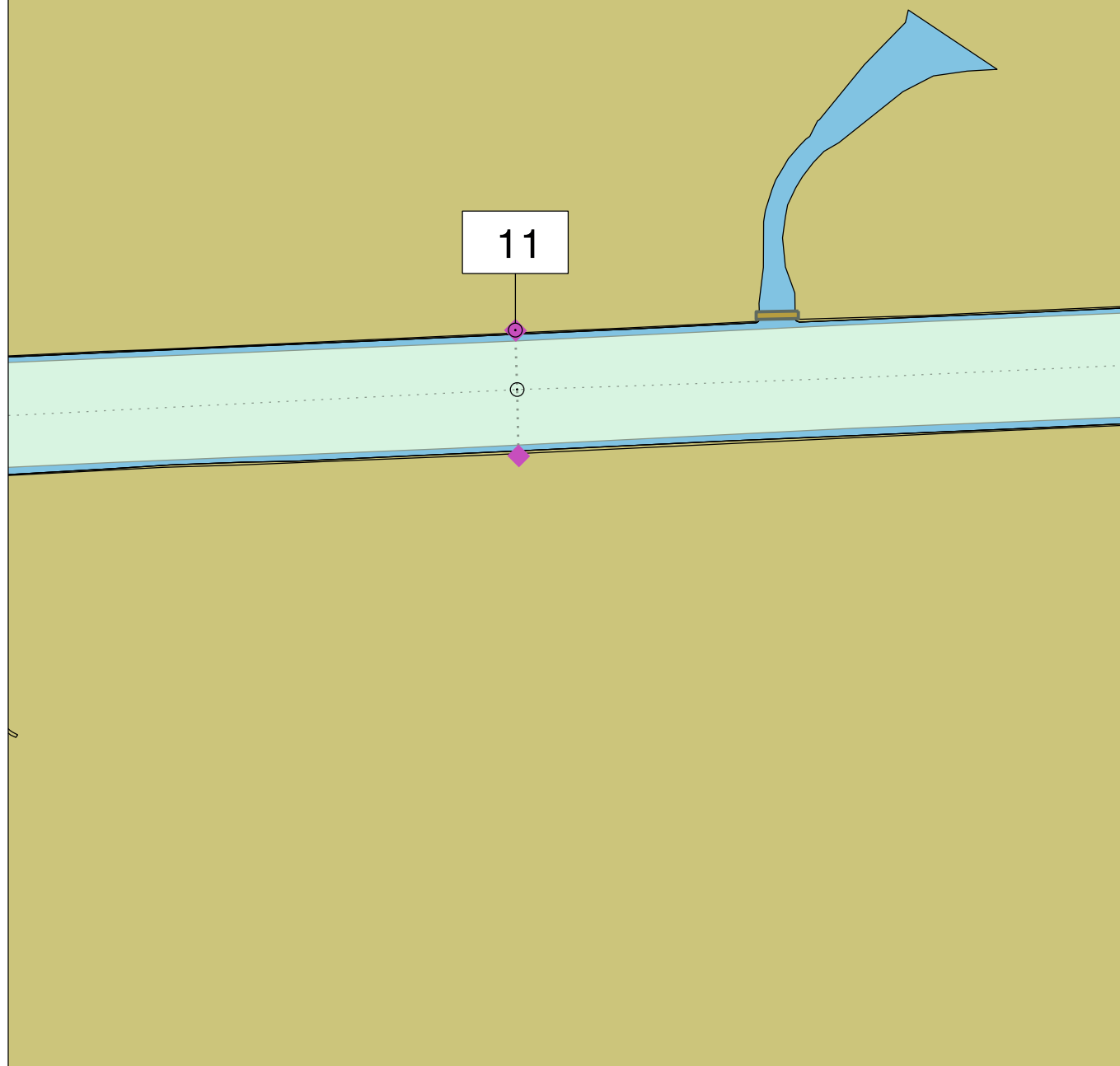
500 m



28° 30.6121'
44° 5.6814'

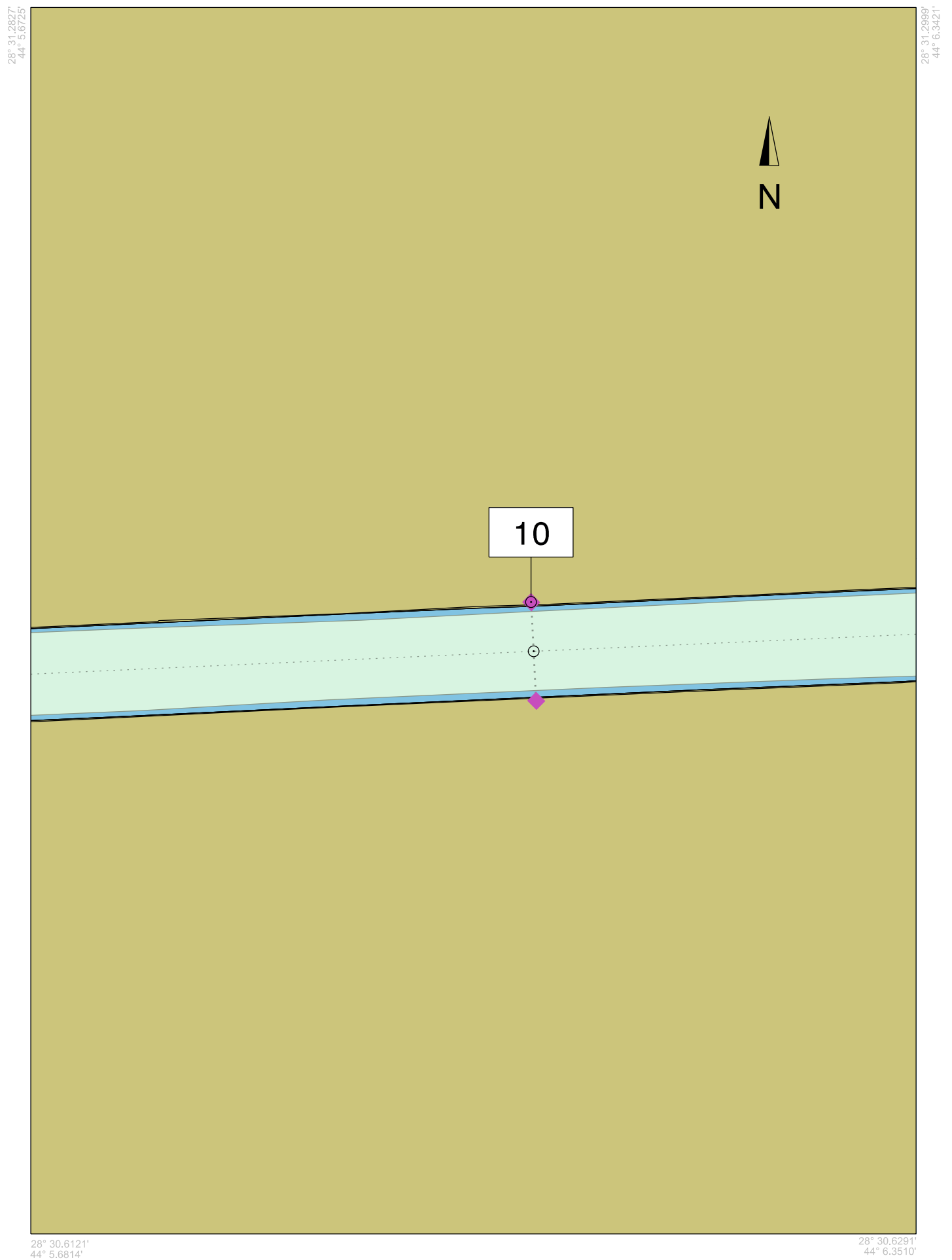
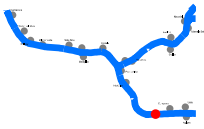
28° 30.6291'
44° 6.3510'

11



28° 29.9415'
44° 5.6902'

28° 29.9584'
44° 6.3599'



0 m

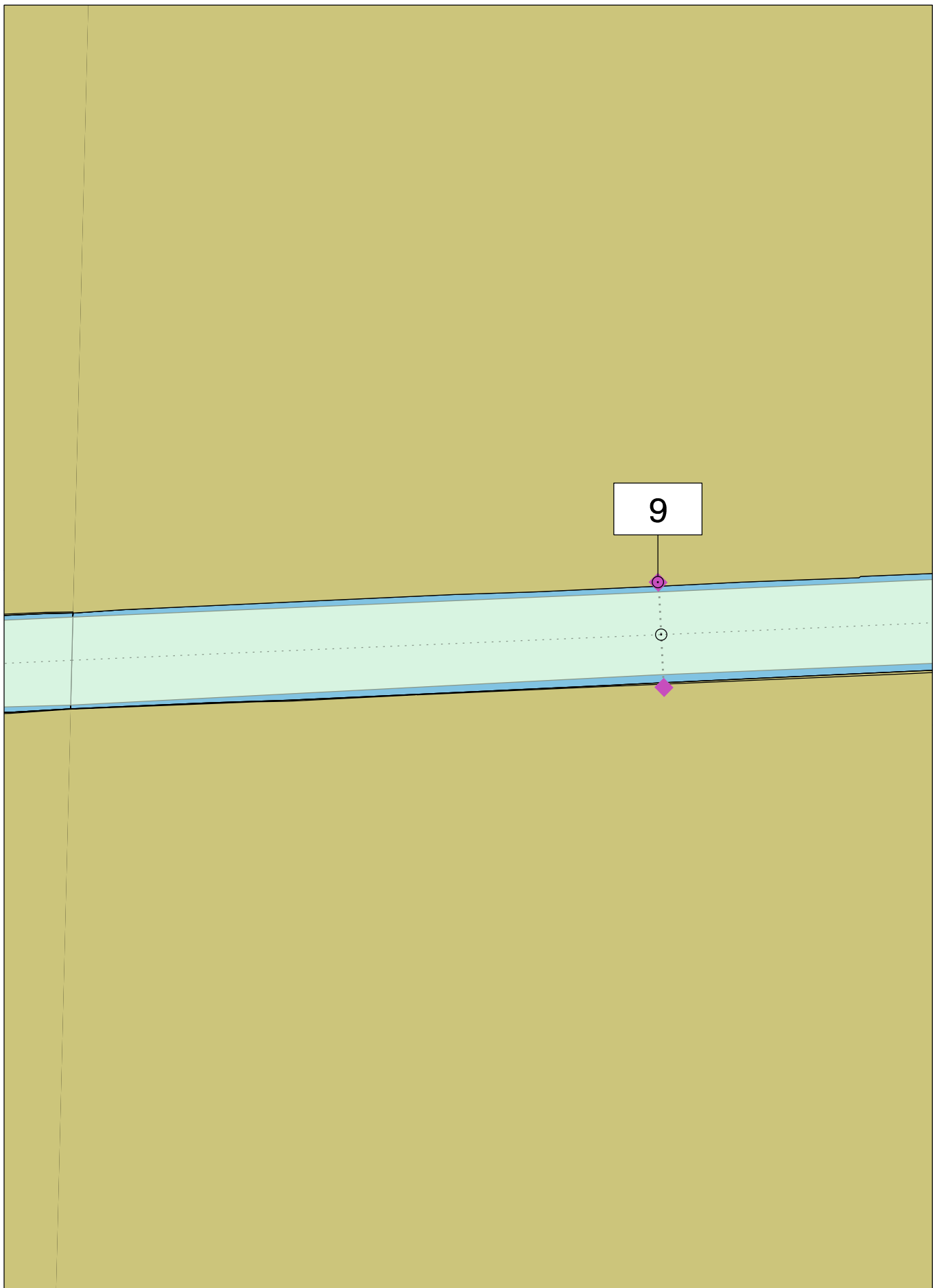
500 m



28° 31' 9.382"
44° 5' 6.638"

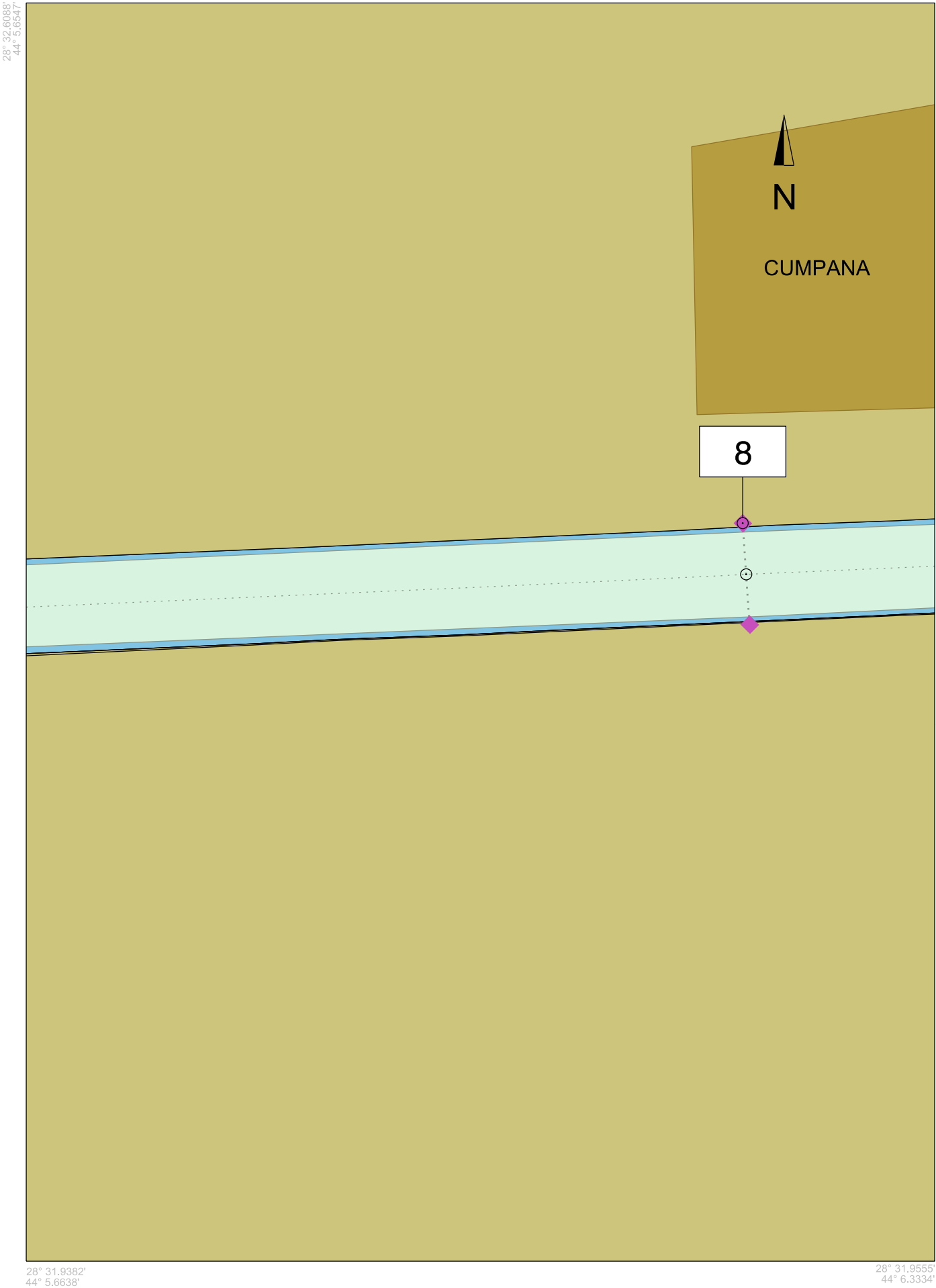
28° 31' 9.555"
44° 6' 6.334"

9



28° 31' 2.675"
44° 5' 6.727"

28° 31' 2.847"
44° 6' 3.423"



0 m

500 m



28° 33.2431'
44° 5.7139'

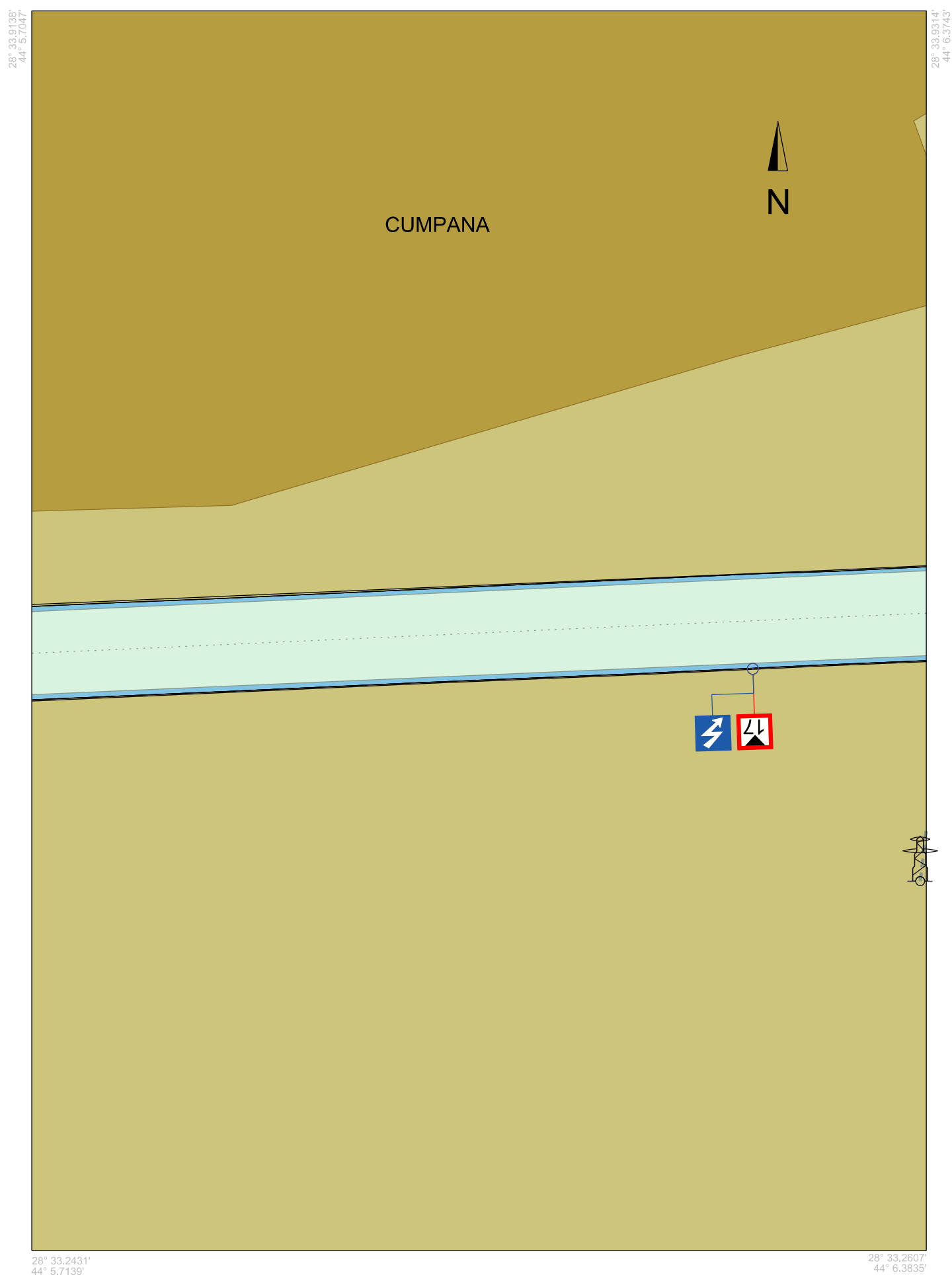
28° 33.2607'
44° 6.3835'

CUMPANA

7

28° 32.5725'
44° 5.7230'

28° 32.5899'
44° 6.3926'

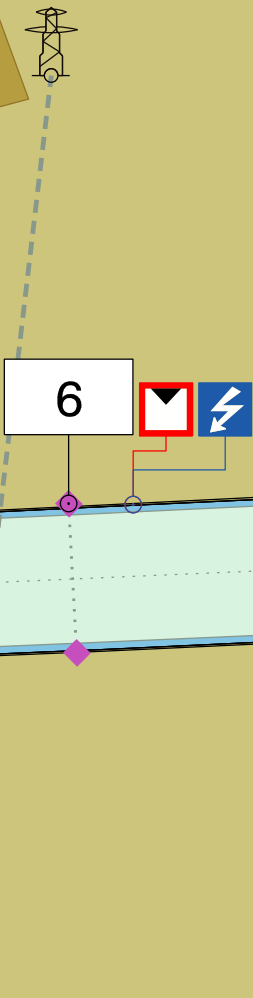




28° 34.5650'
44° 5.7476'

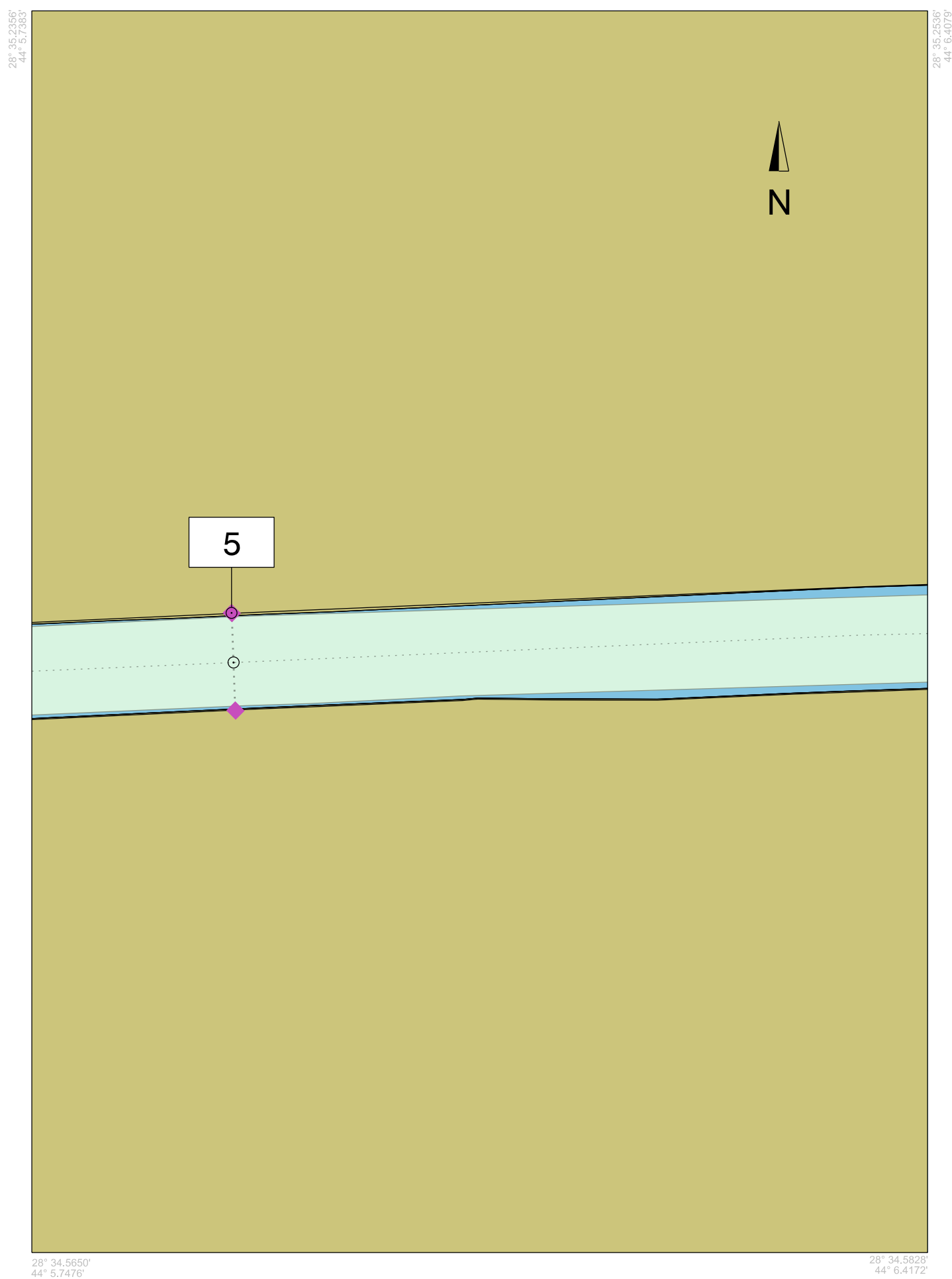
28° 34.5828'
44° 6.4172'

CUMPANA



28° 33.8944'
44° 5.7568'

28° 33.9121'
44° 6.4264'



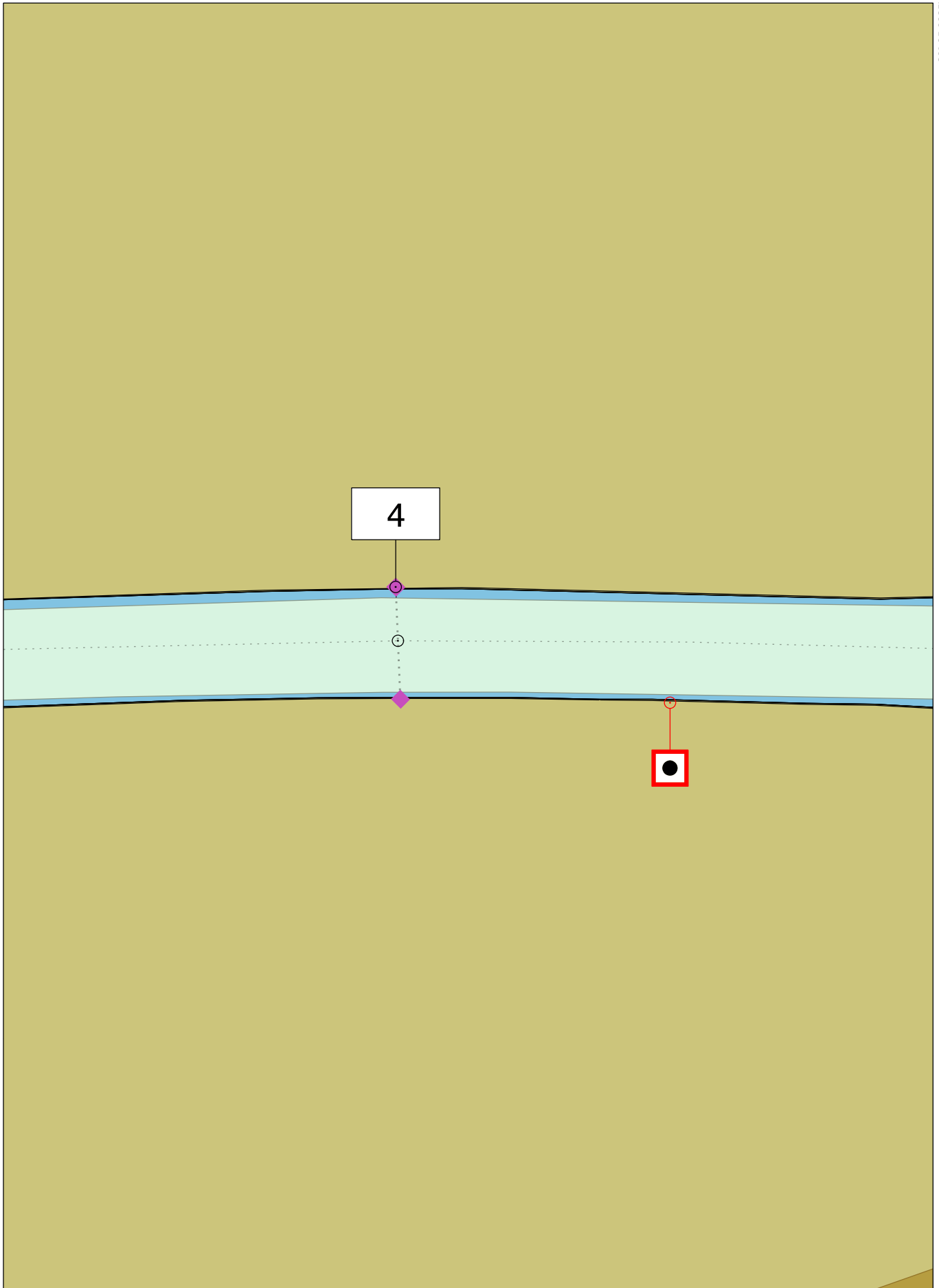
0 m

500 m



28° 35.8745'
44° 5.7294'

28° 35.8925'
44° 6.3990'



28° 35.2039'
44° 5.7388'

28° 35.2218'
44° 6.4083'

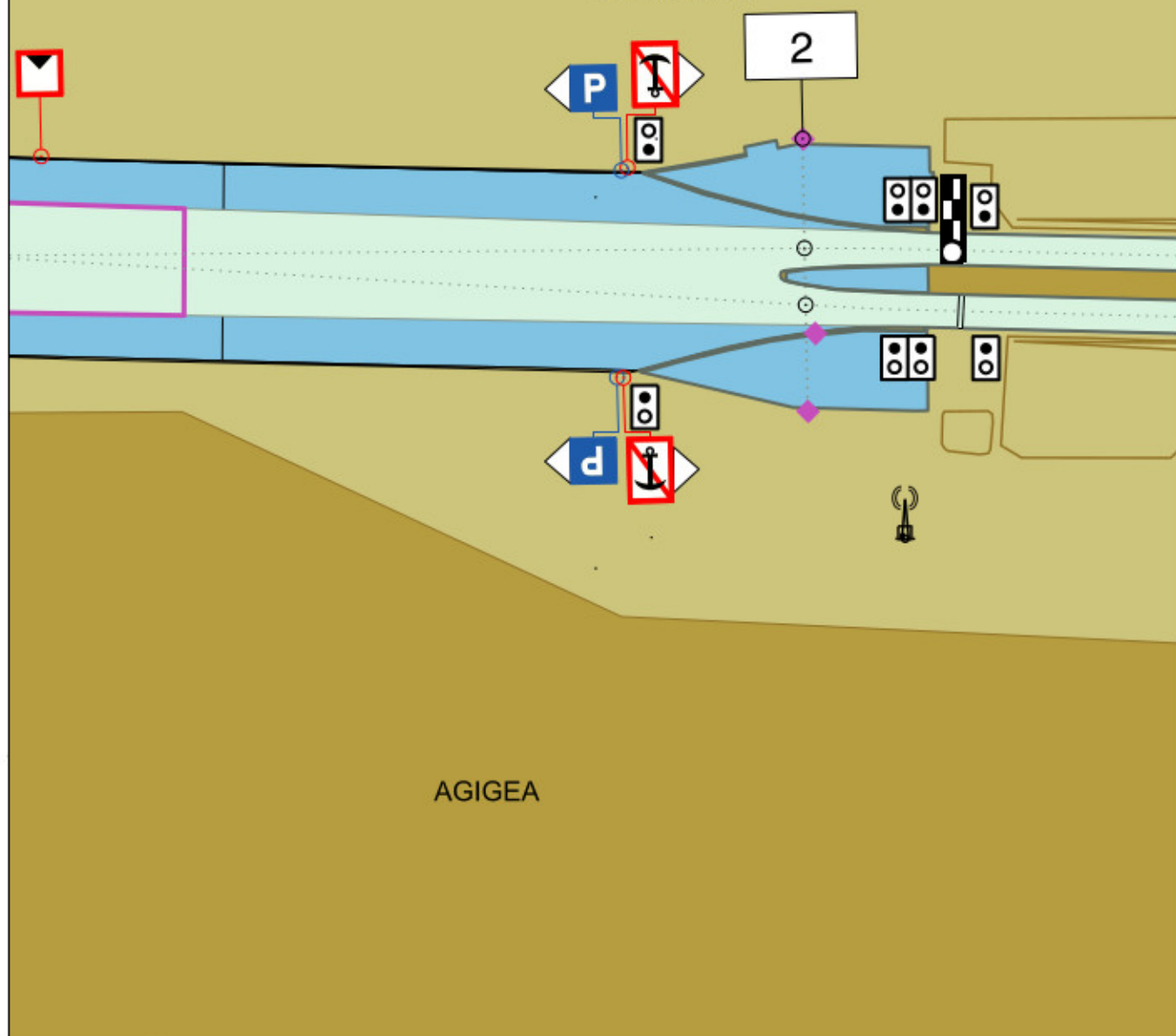
0 m

500 m

28° 37' 20.05"
44° 5' 7.107"

28° 37' 21.85"
44° 5' 3.803"

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AGIGEA

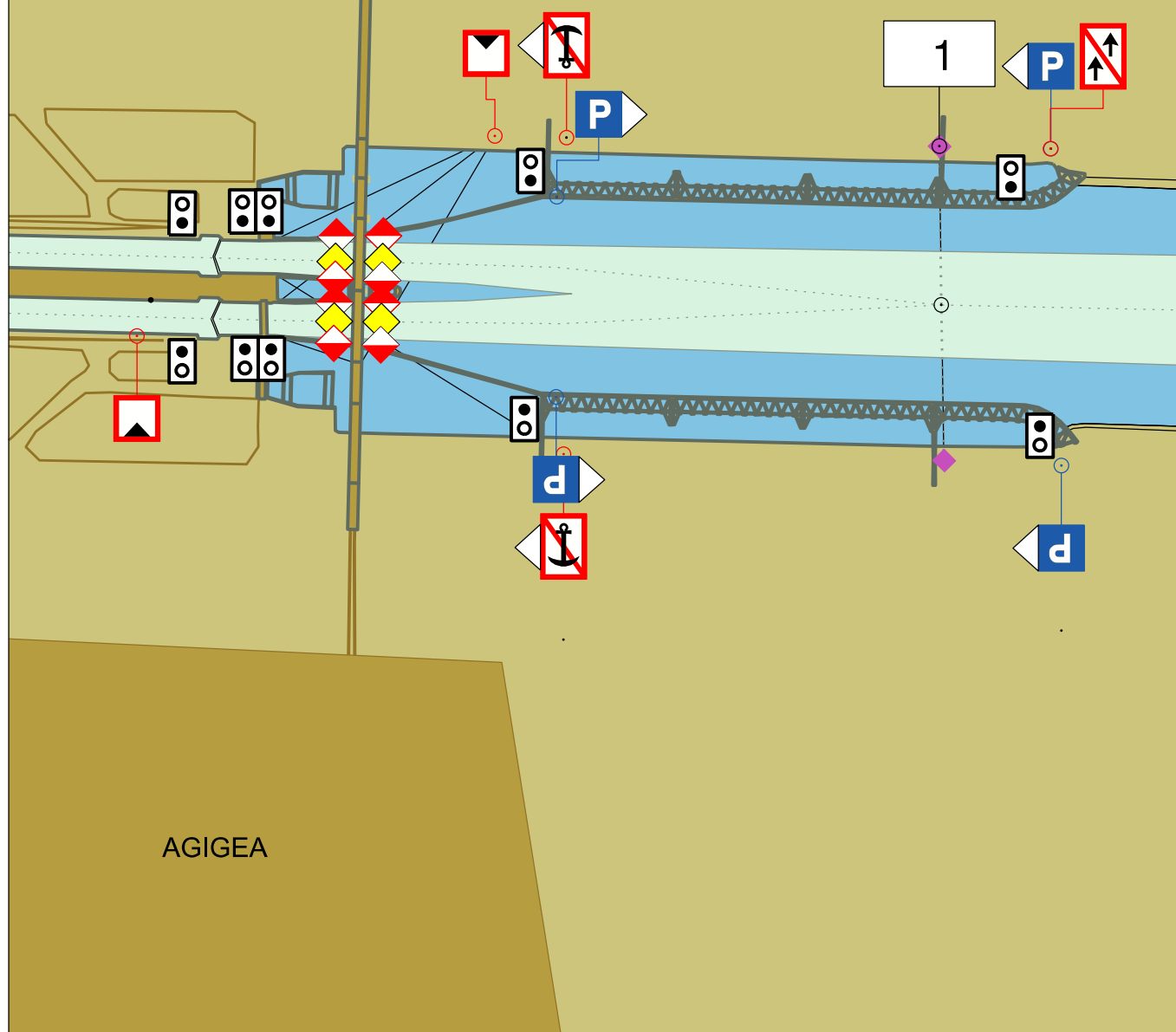
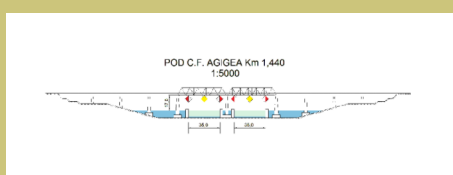
28° 36' 52.99"
44° 5' 7.202"

28° 36' 54.81"
44° 5' 3.898"



28° 37.8711'
44° 5.7012'

28° 37.8895'
44° 6.3708'



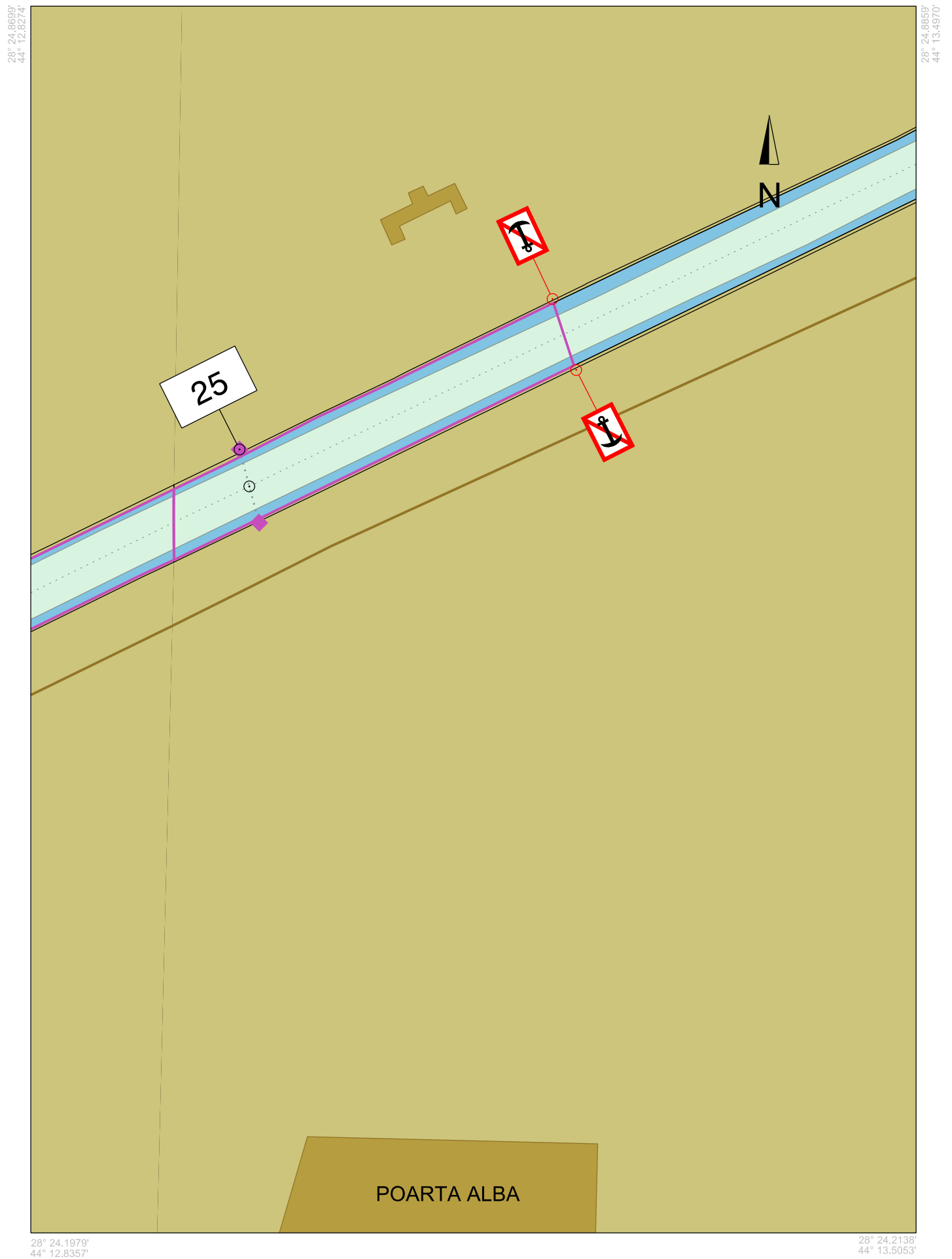
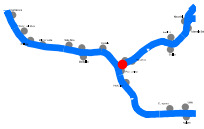
28° 37.2005'
44° 5.7107'

28° 37.2188'
44° 6.3803'

28° 37.8605'
44° 6.3712'



28° 23.5416'
44° 13.5135'



0 m

500 m



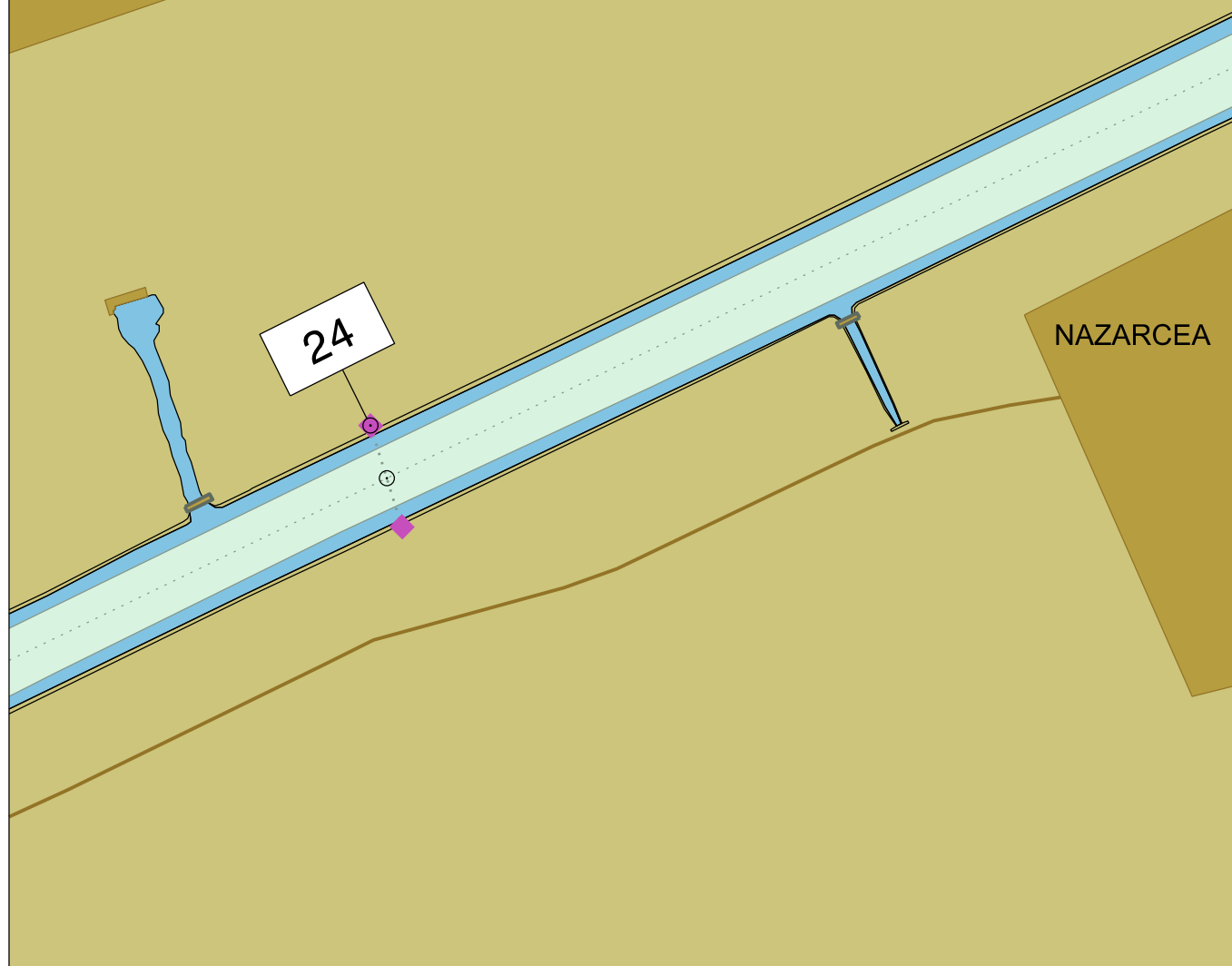
28° 25.5163'
44° 13.2682'

28° 25.5325'
44° 13.9378'

POARTA ALBA

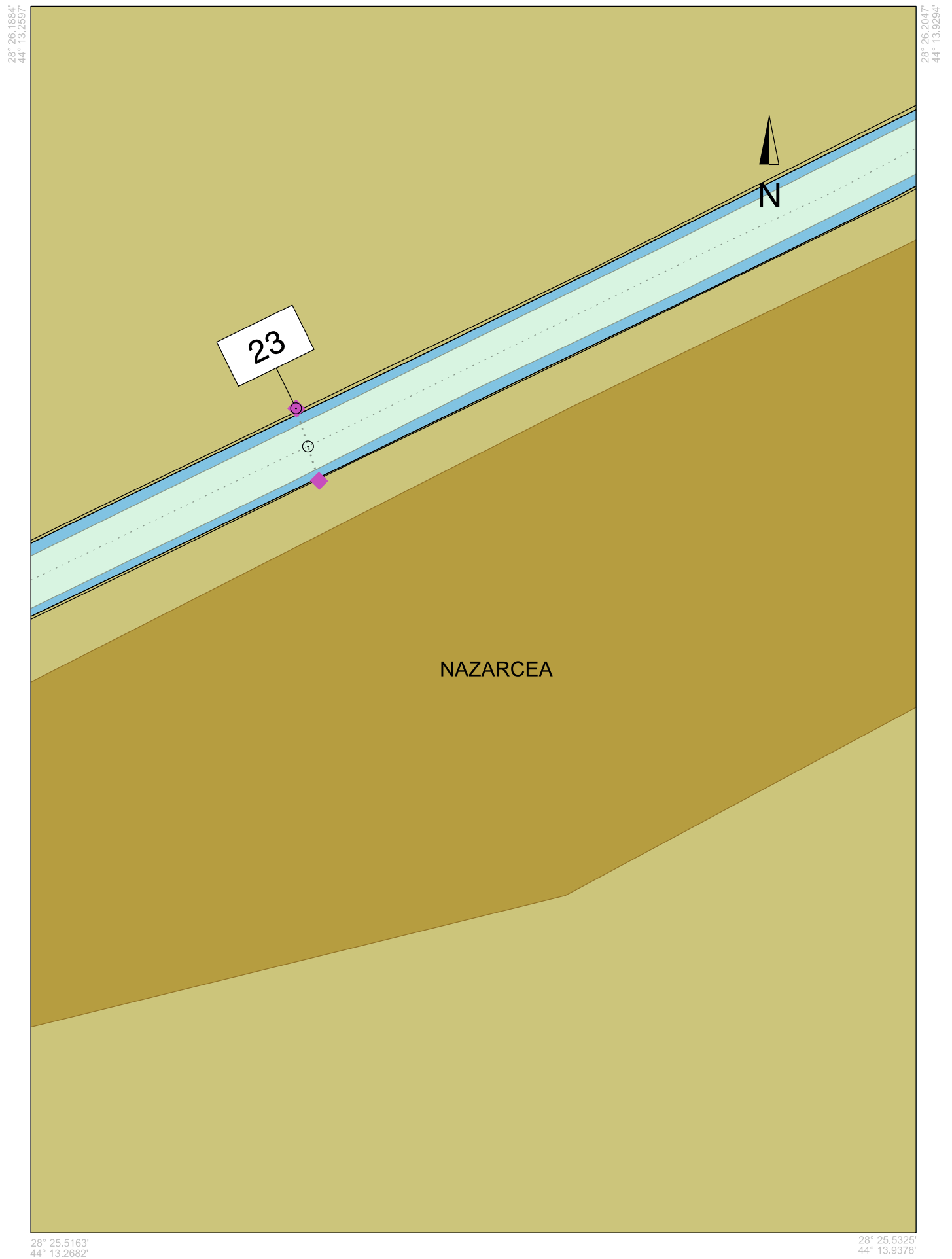
NAZARCEA

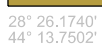
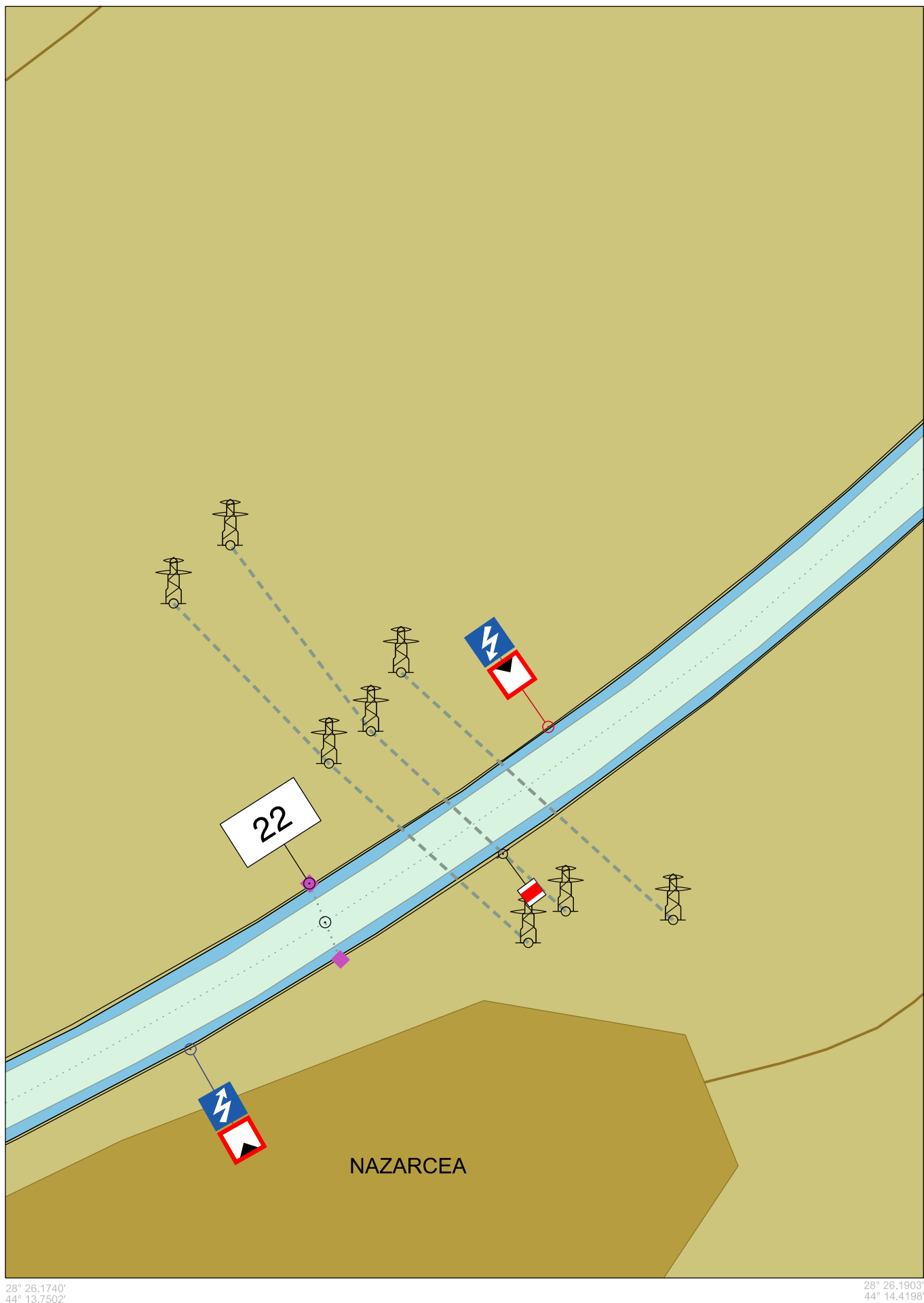
24

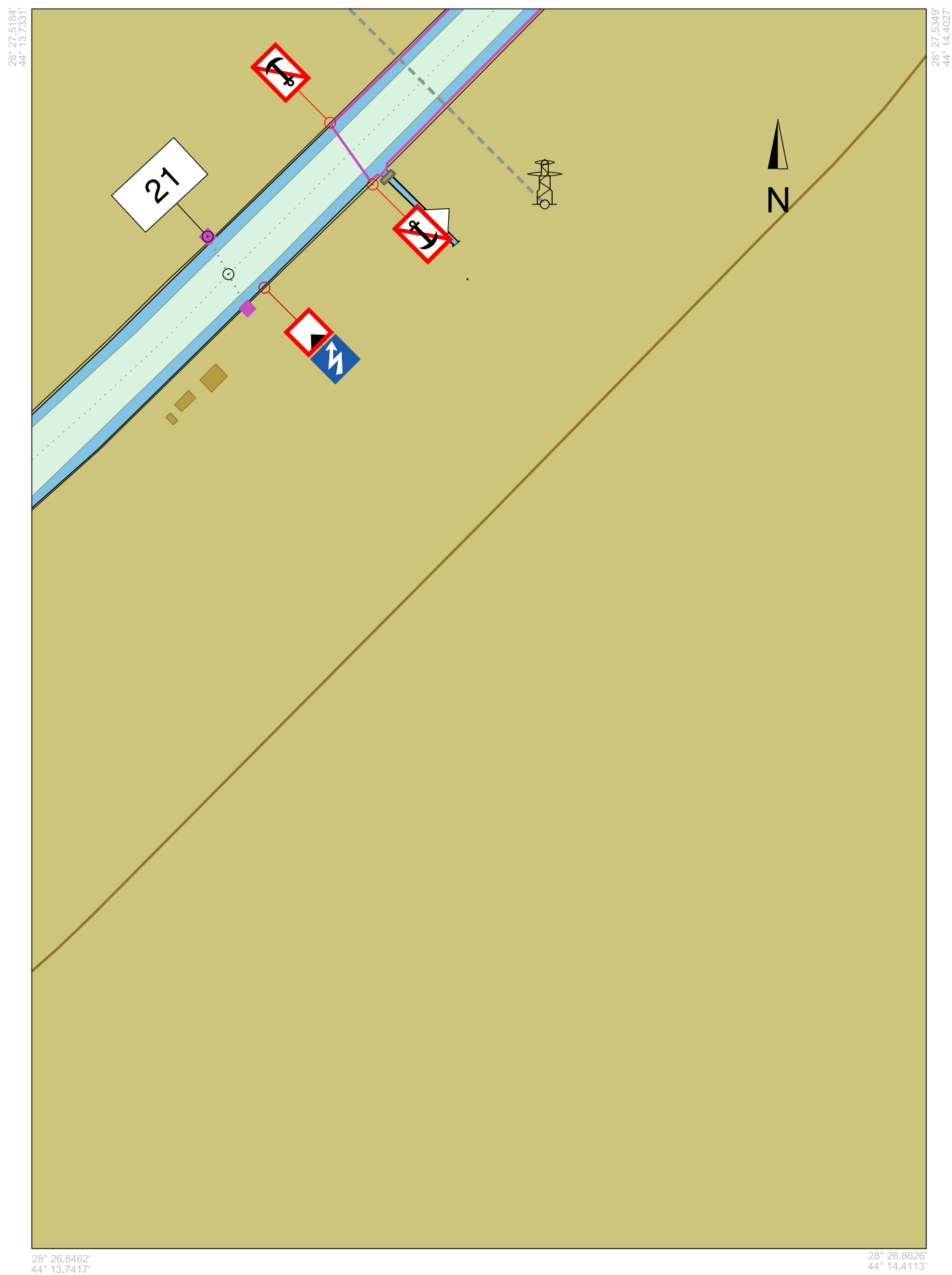


28° 24.8442'
44° 13.2765'

28° 24.8603'
44° 13.9461'







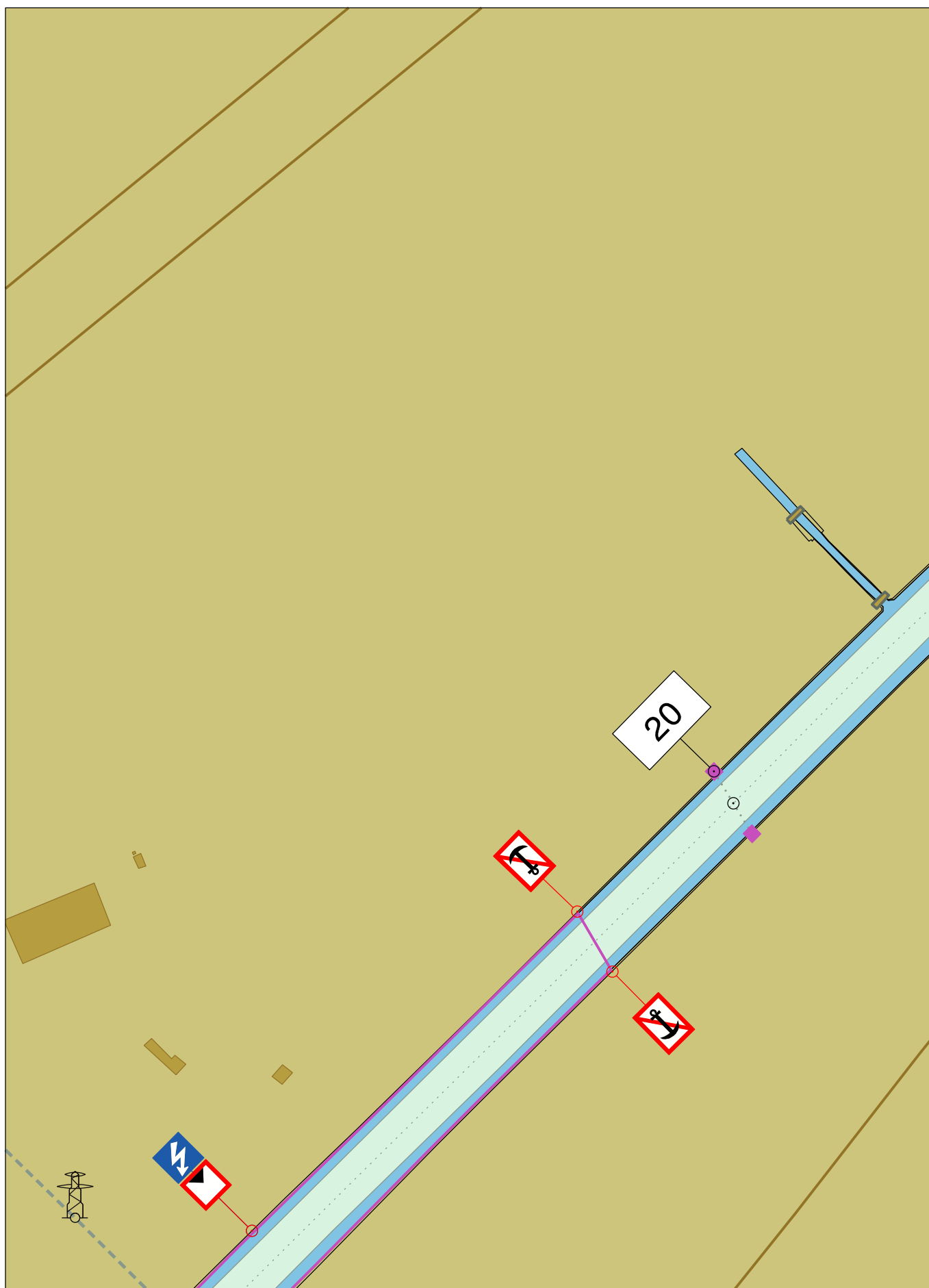
0 m

500 m



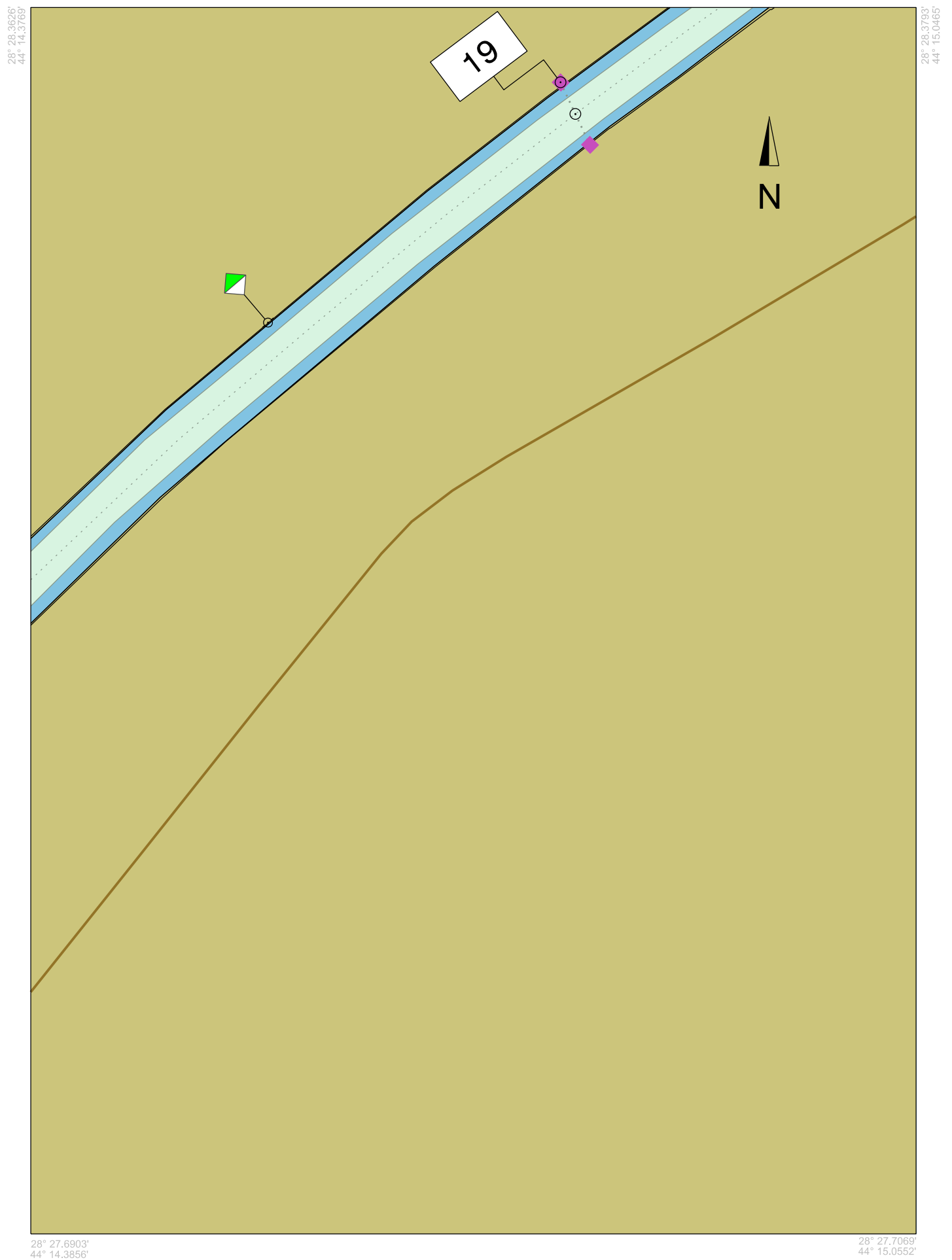
28° 27.6903'
44° 14.3856'

28° 27.7069'
44° 15.0552'



28° 27.0180'
44° 14.3941'

28° 27.0345'
44° 15.0637'



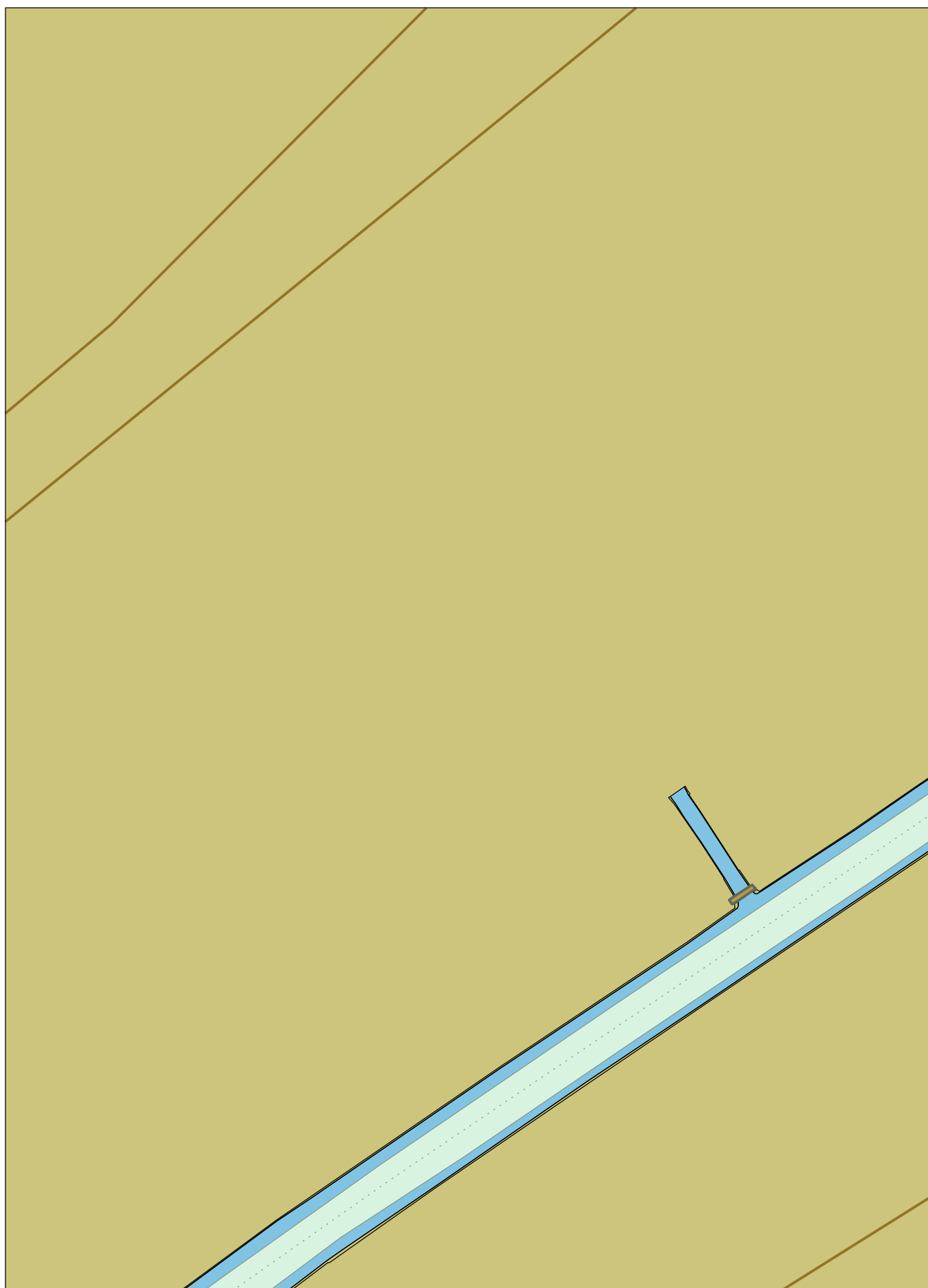
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500 m



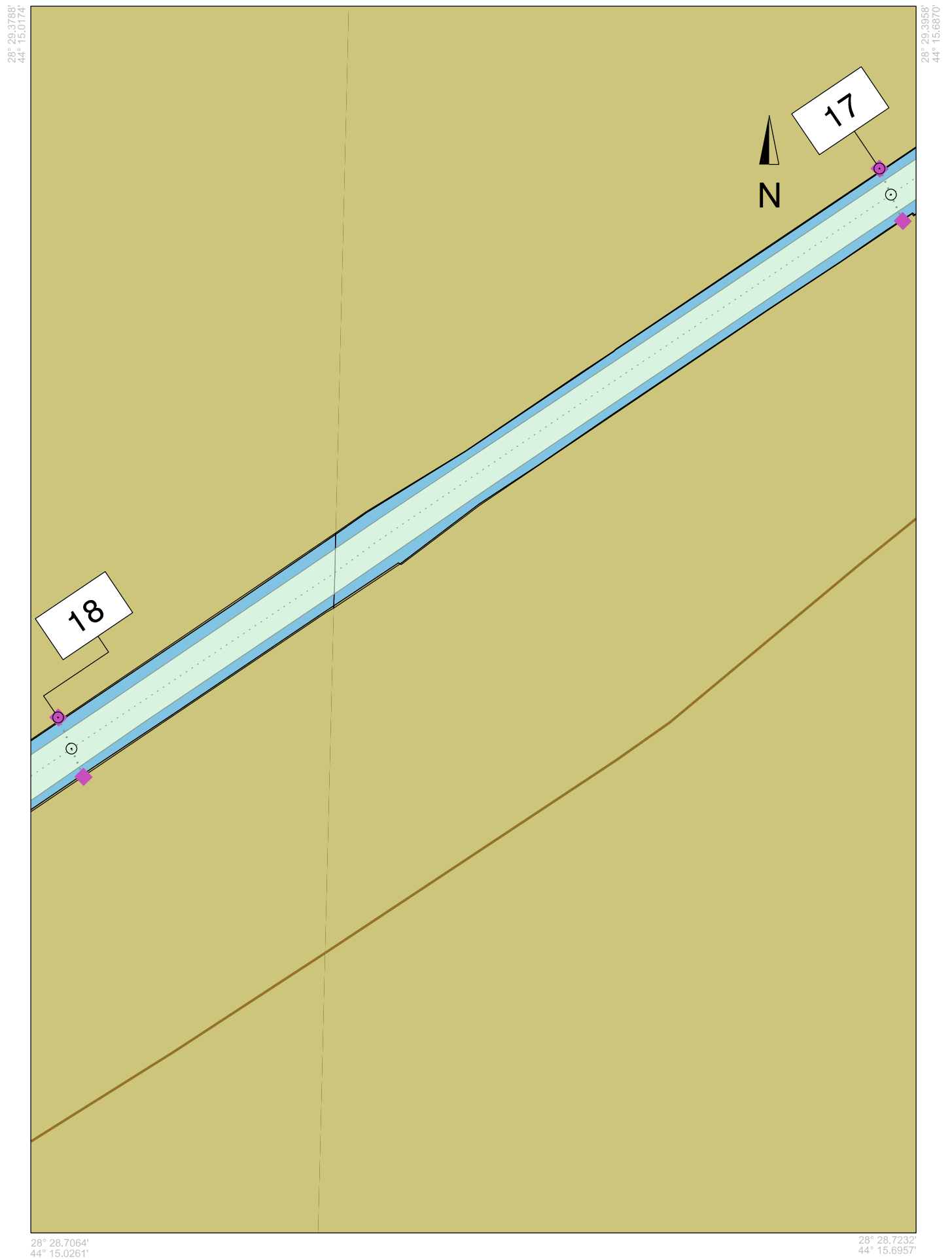
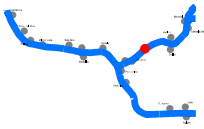
28° 28.7064'
44° 15.0261'

28° 28.7232'
44° 15.6957'



28° 28.0340'
44° 15.0348'

28° 28.0507'
44° 15.7044'



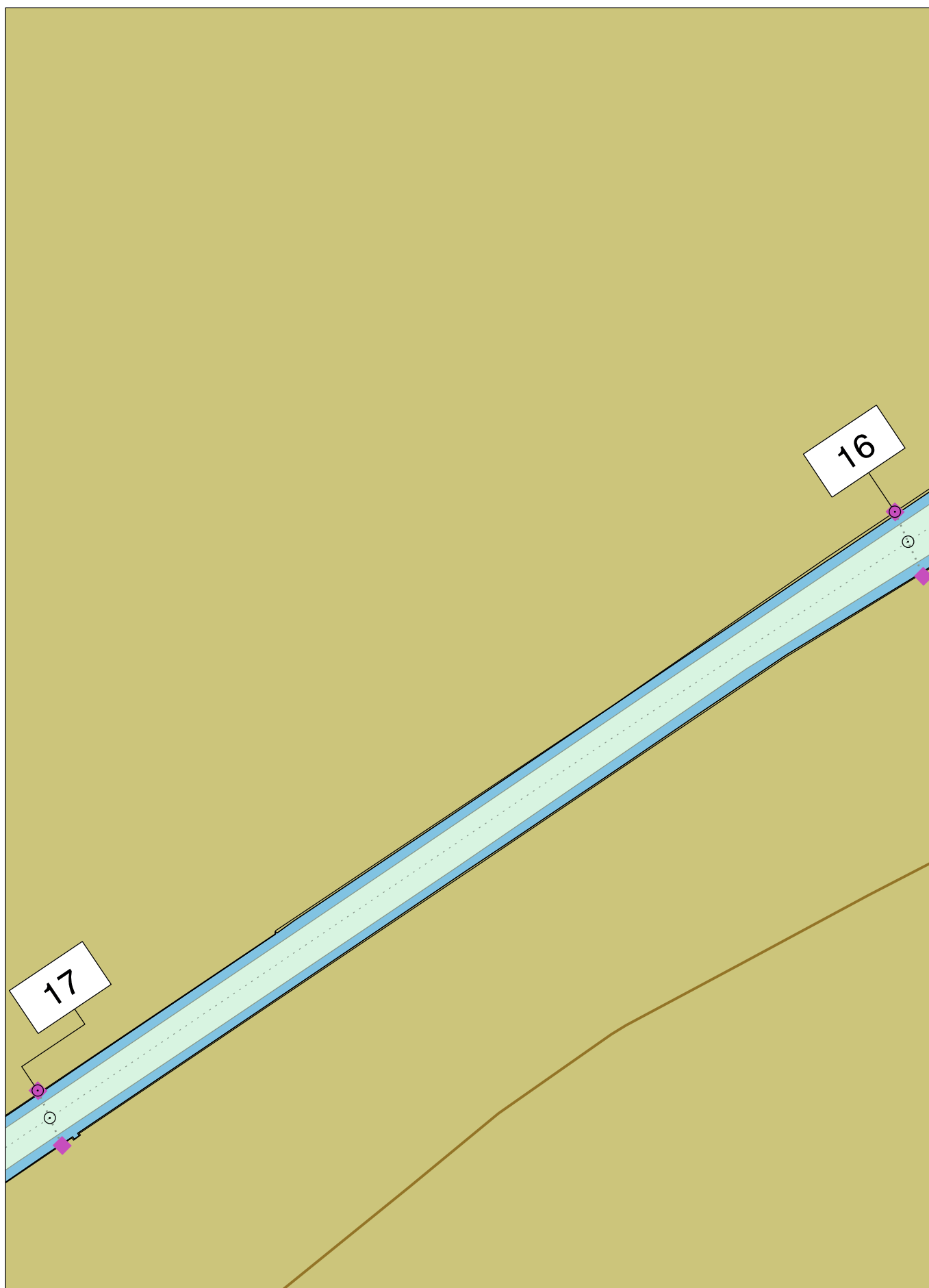
0 m

500 m



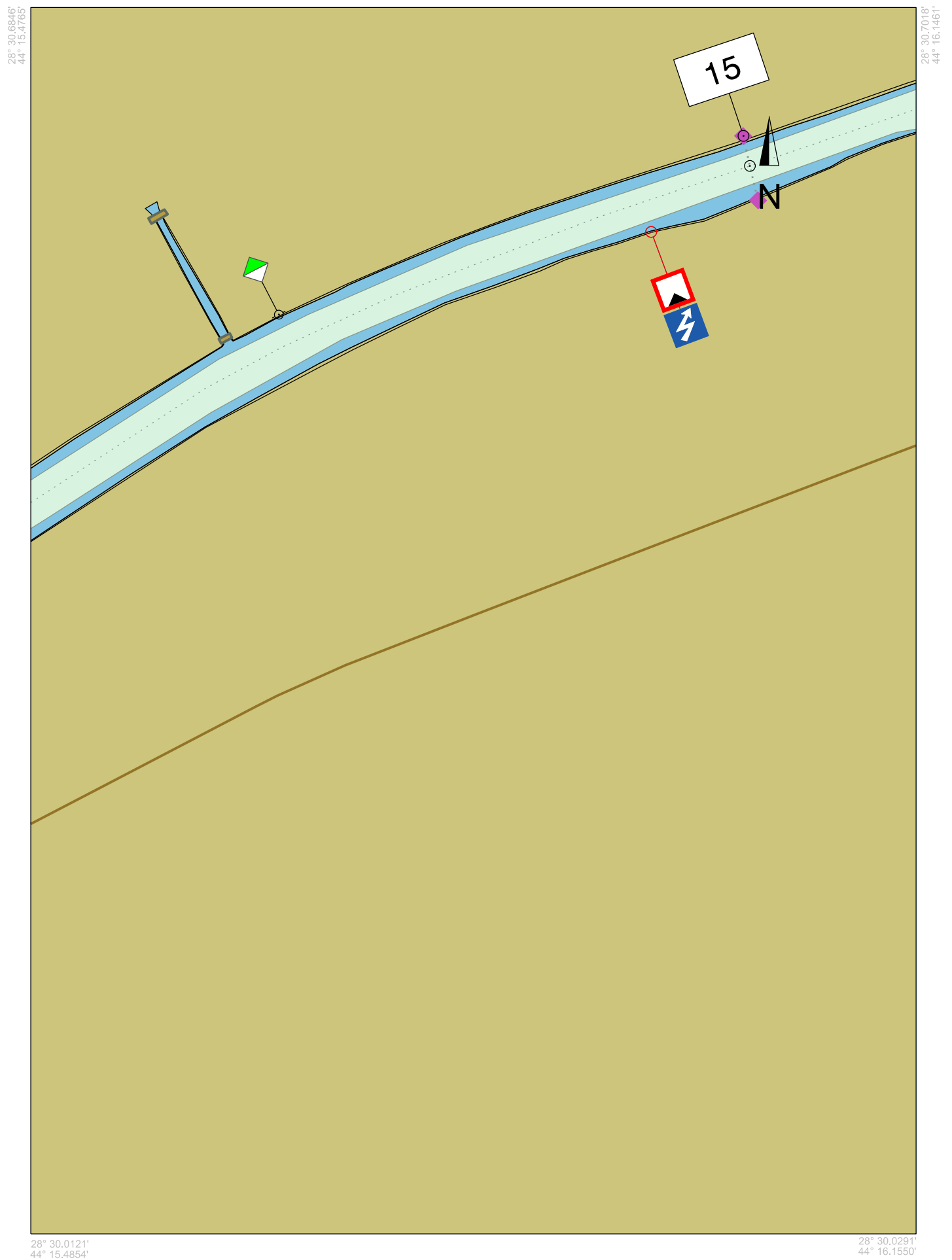
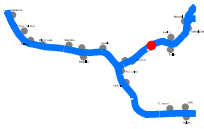
28° 30.0121'
44° 15.4854'

28° 30.0291'
44° 16.1550'



28° 29.3396'
44° 15.4942'

28° 29.3565'
44° 16.1638'



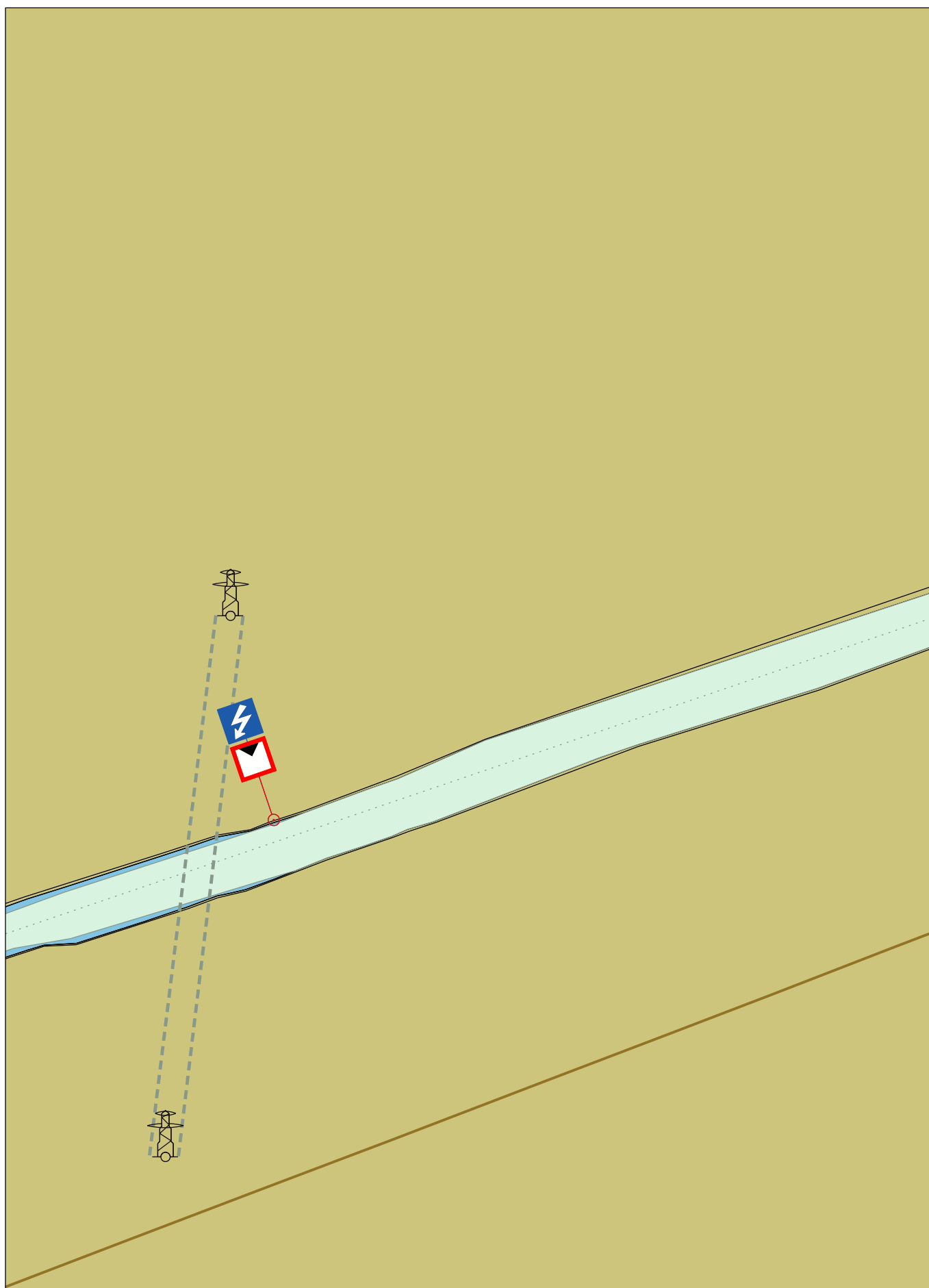
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500 m



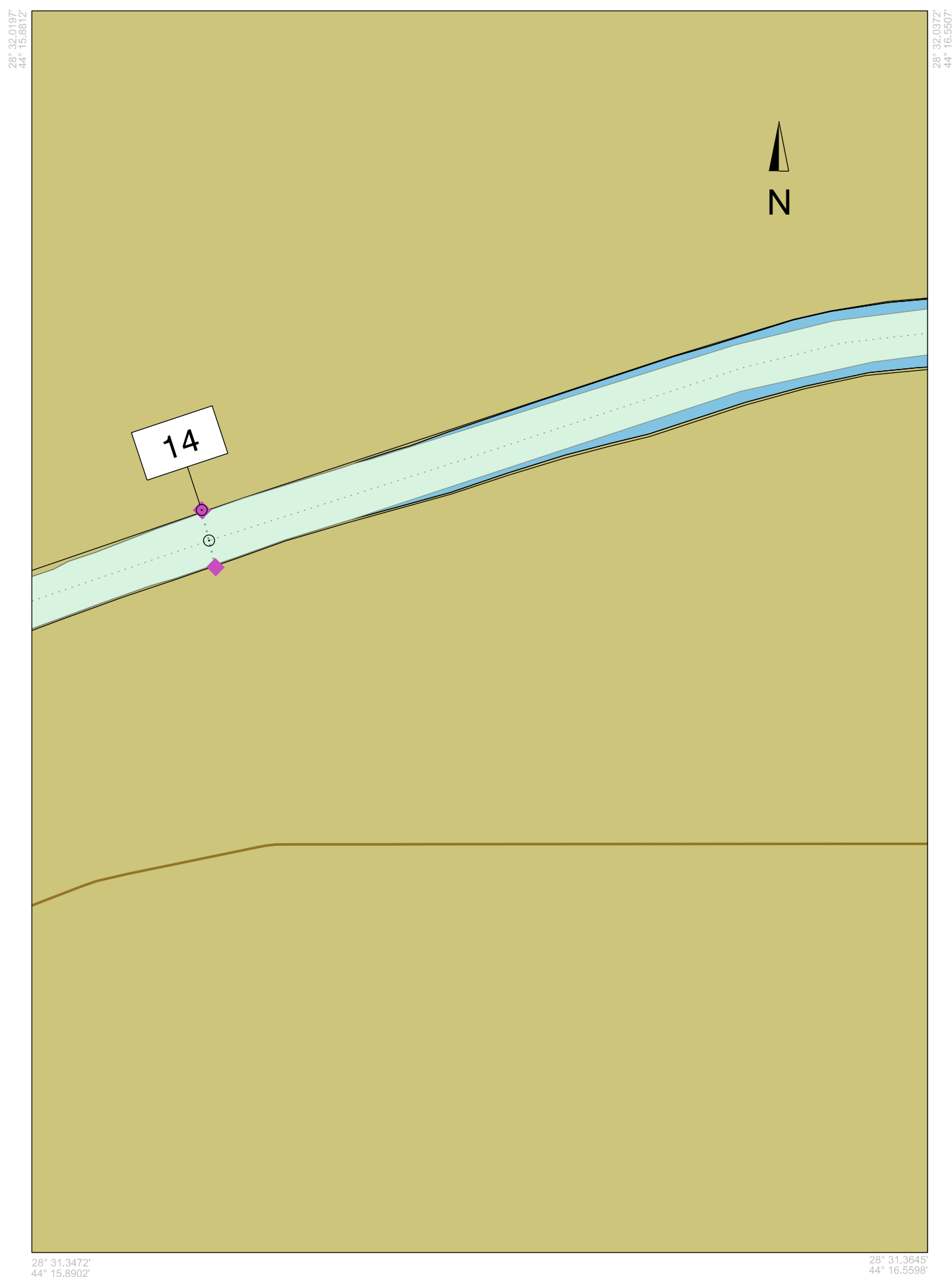
28° 31.3472'
44° 15.8902'

28° 31.3645'
44° 16.5598'



28° 30.6746'
44° 15.8991'

28° 30.6918'
44° 16.5687'



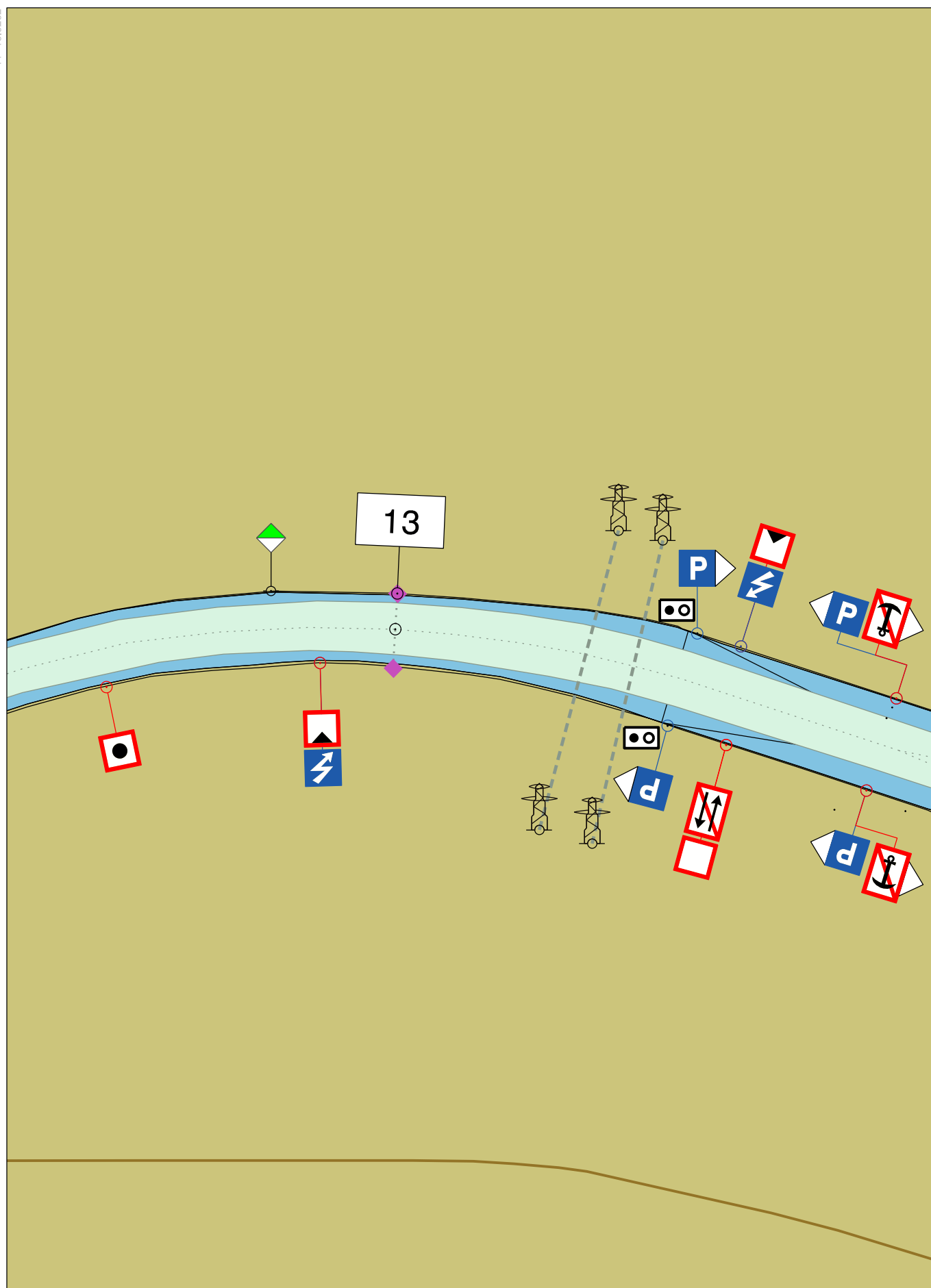
0 m

500 m



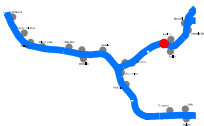
28° 32.5449'
44° 16.0262'

28° 32.5624'
44° 16.6958'



28° 31.8723'
44° 16.0353'

28° 31.8897'
44° 16.7049'



28° 33.2174'
44° 16.0171'

28° 33.2351'
44° 16.6867'



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28° 32.5449'
44° 16.0262'

28° 32.5624'
44° 16.6958'

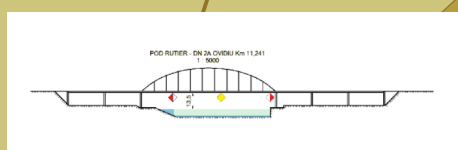
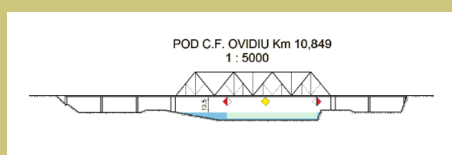
0 m

500 m

28° 33.8552'
44° 15.6942'

28° 33.8729'
44° 16.3638'

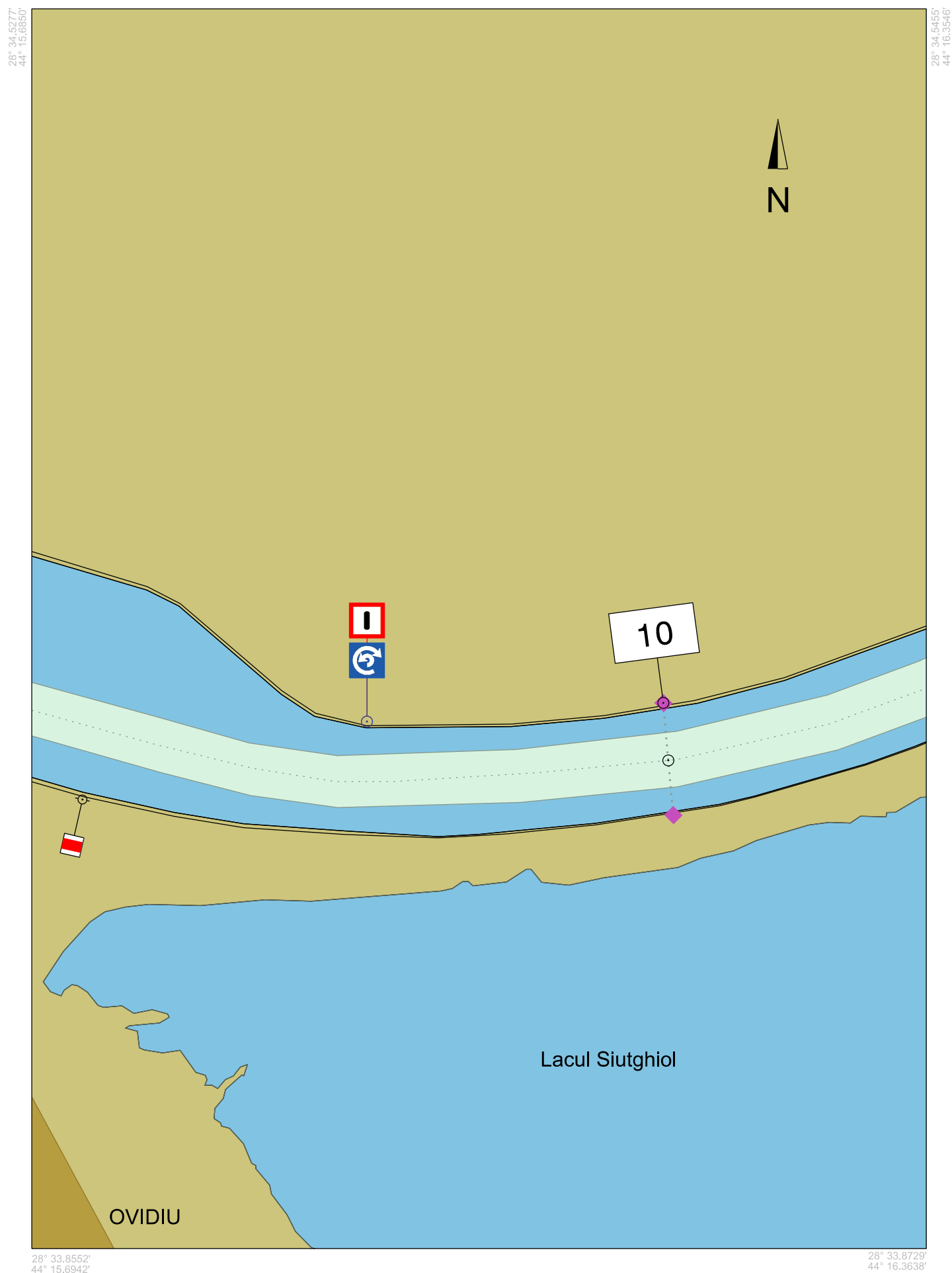
LUMINA



OVIDIU

28° 33.1826'
44° 15.7034'

28° 33.2003'
44° 16.3730'



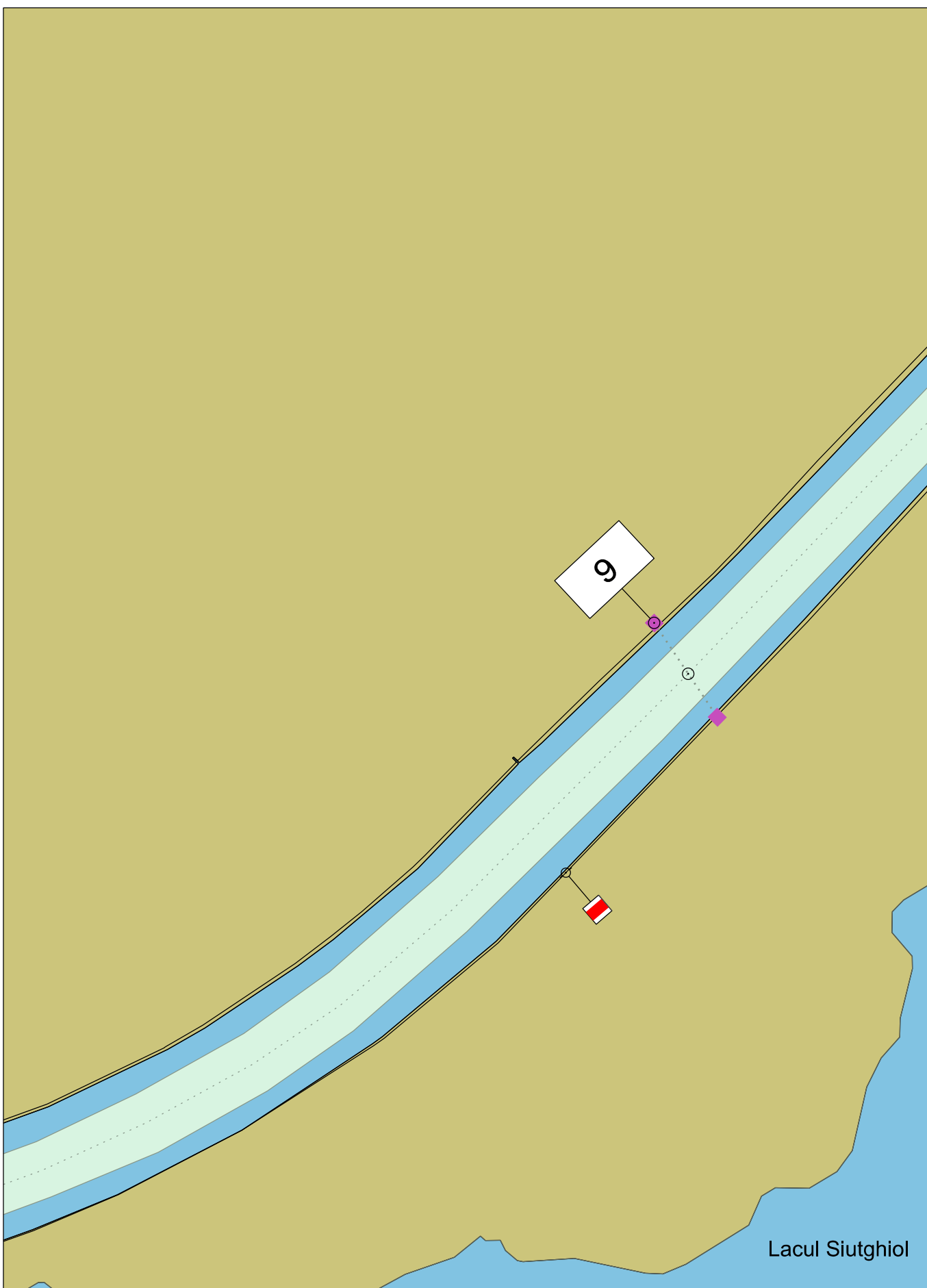
0 m

500 m



28° 35.1771'
44° 15.9151'

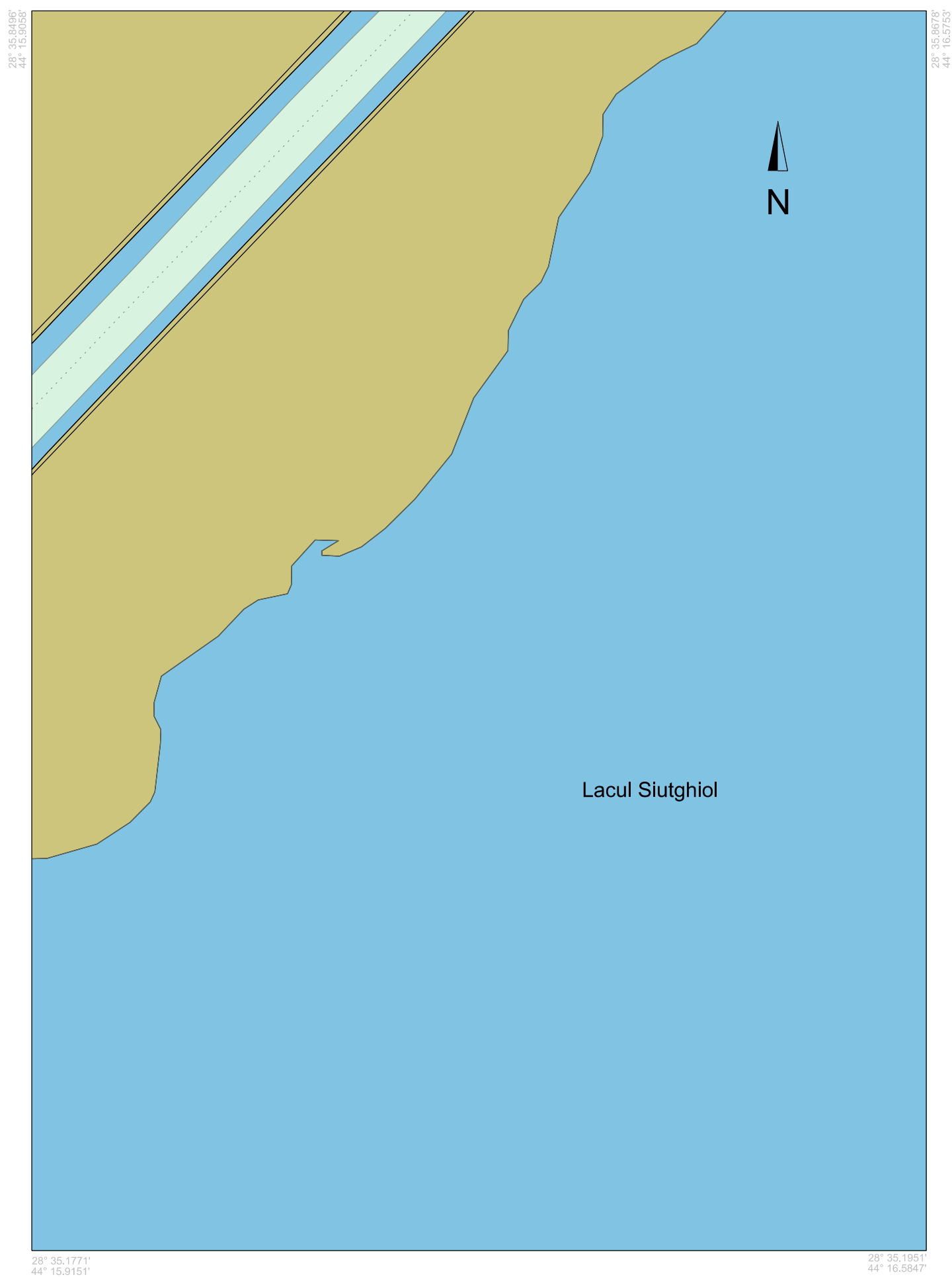
28° 35.1951'
44° 16.5847'



28° 34.5046'
44° 15.9245'

28° 34.5224'
44° 16.5940'

Lacul Siutghiol



Lacul Siutghiol

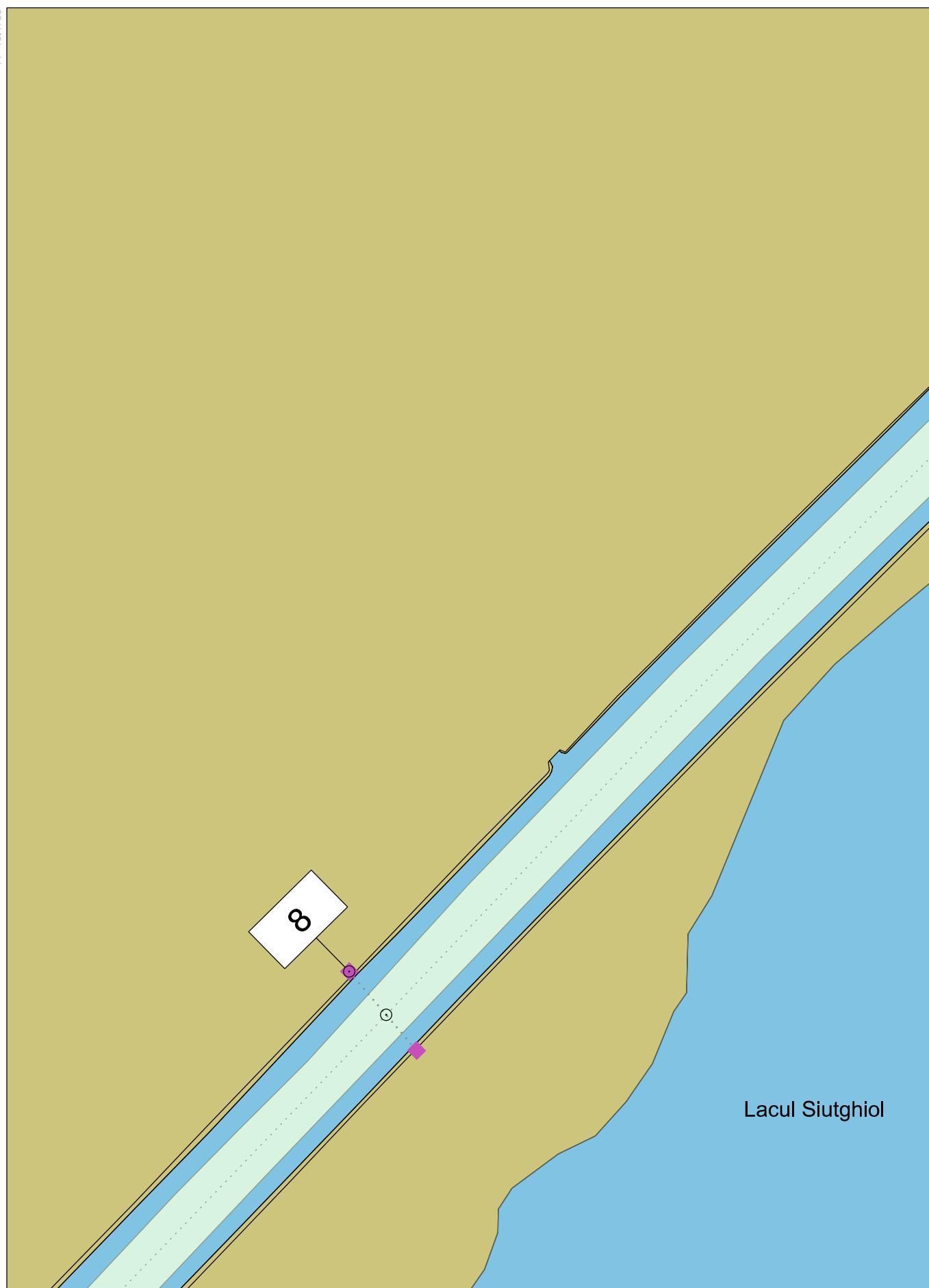
0 m

500 m



28° 35.9378'
44° 16.4755'

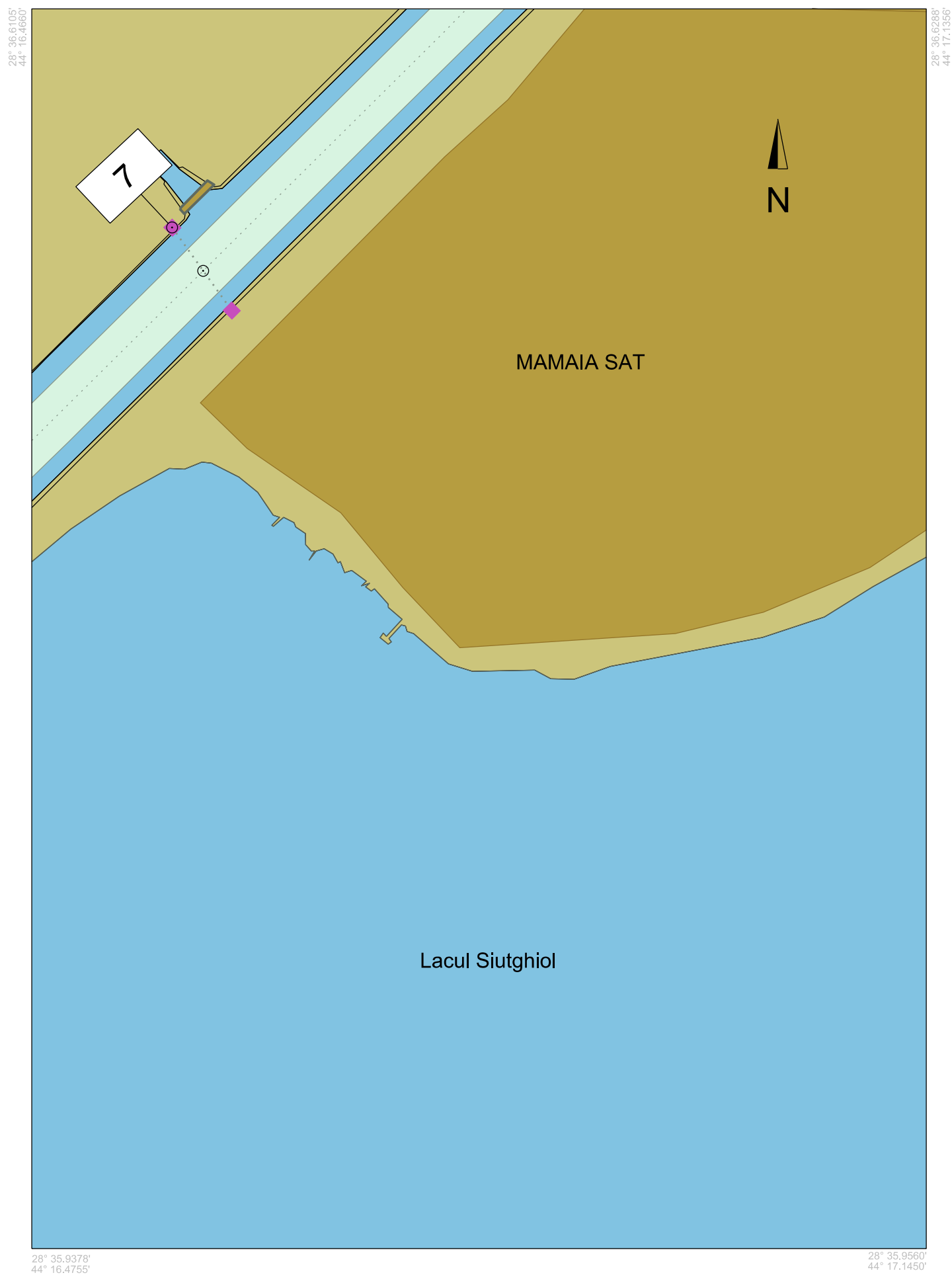
28° 35.9560'
44° 17.1450'

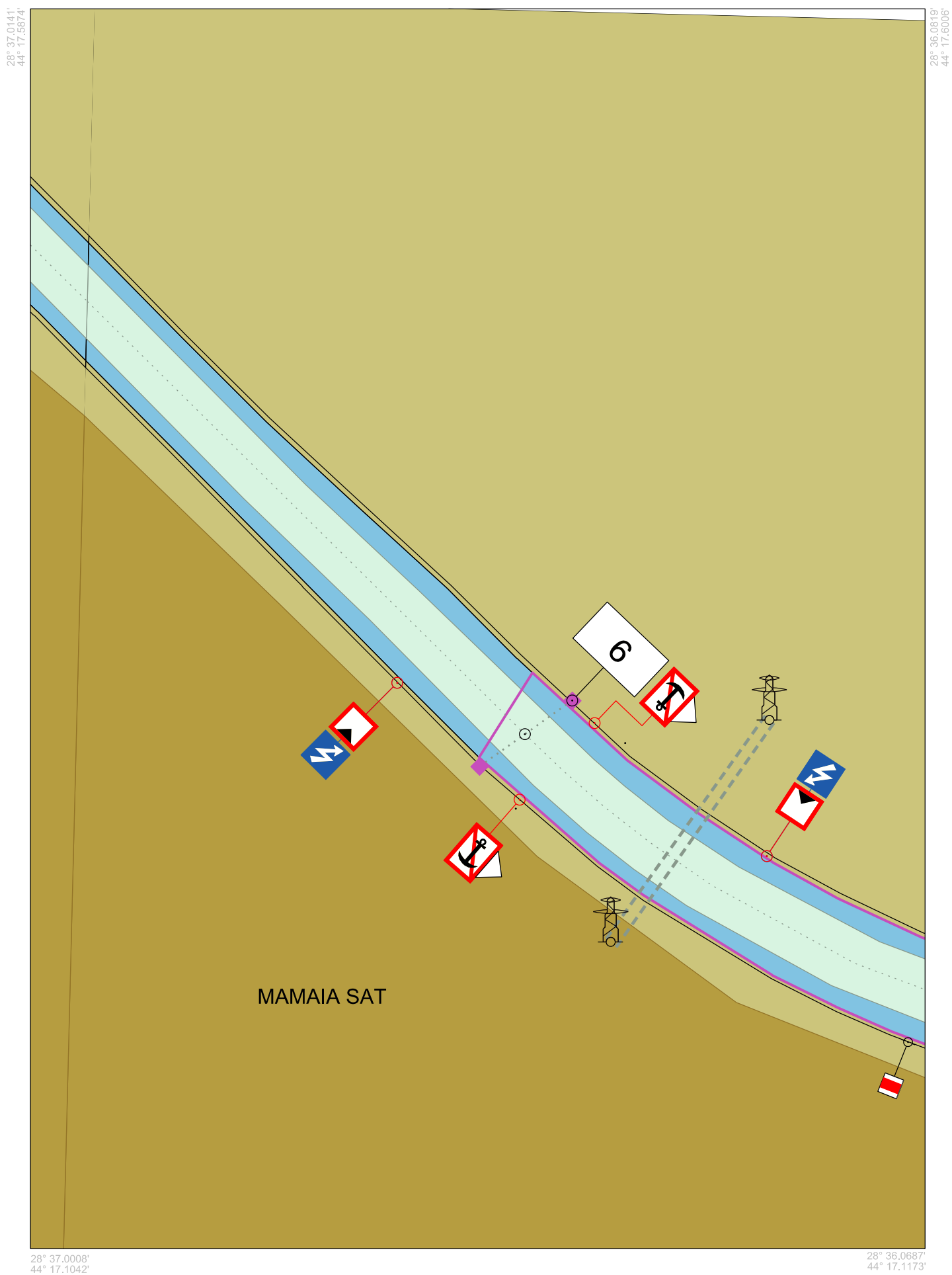


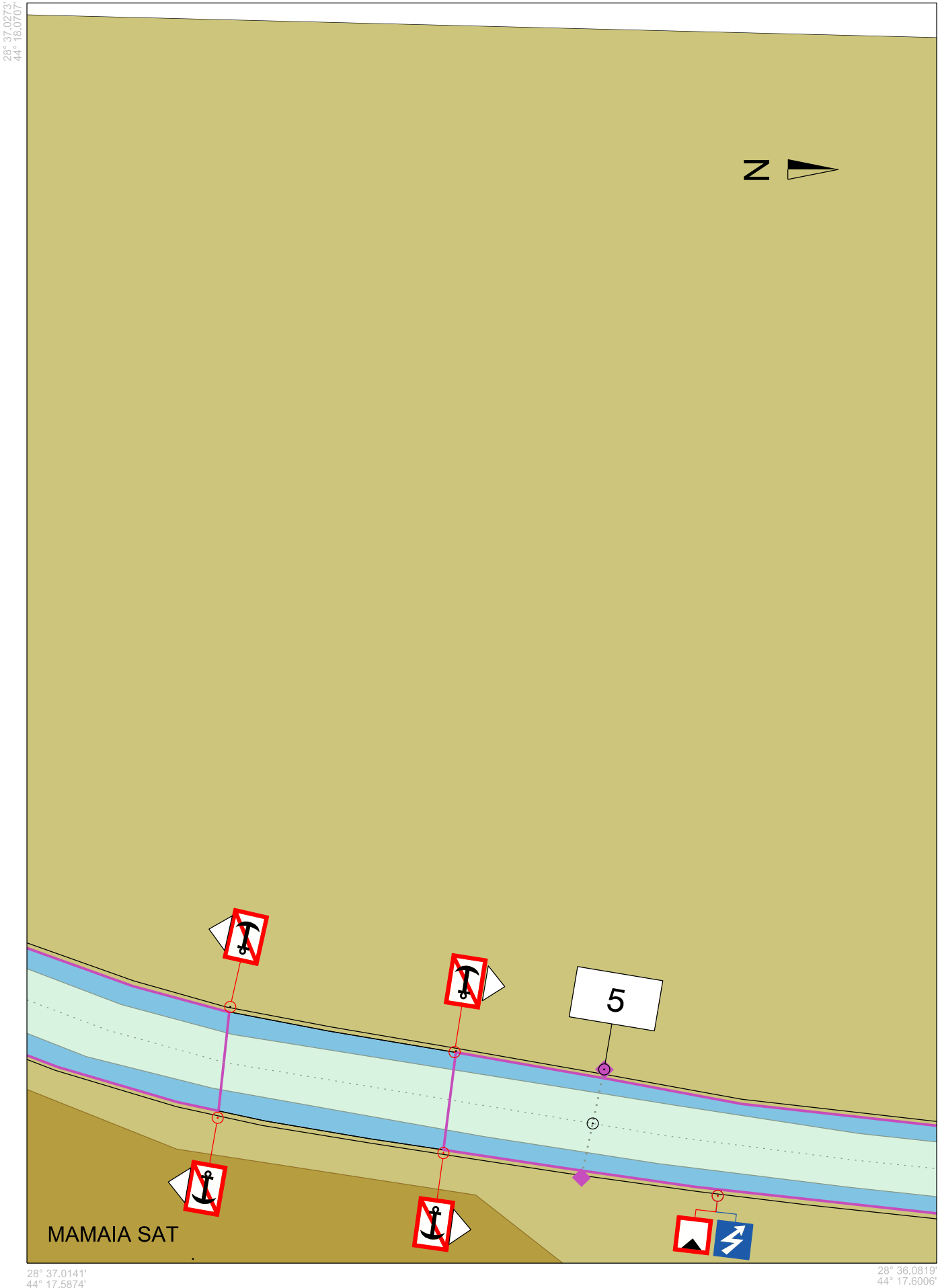
Lacul Siutghiol

28° 35.2652'
44° 16.4849'

28° 35.2832'
44° 17.1544'







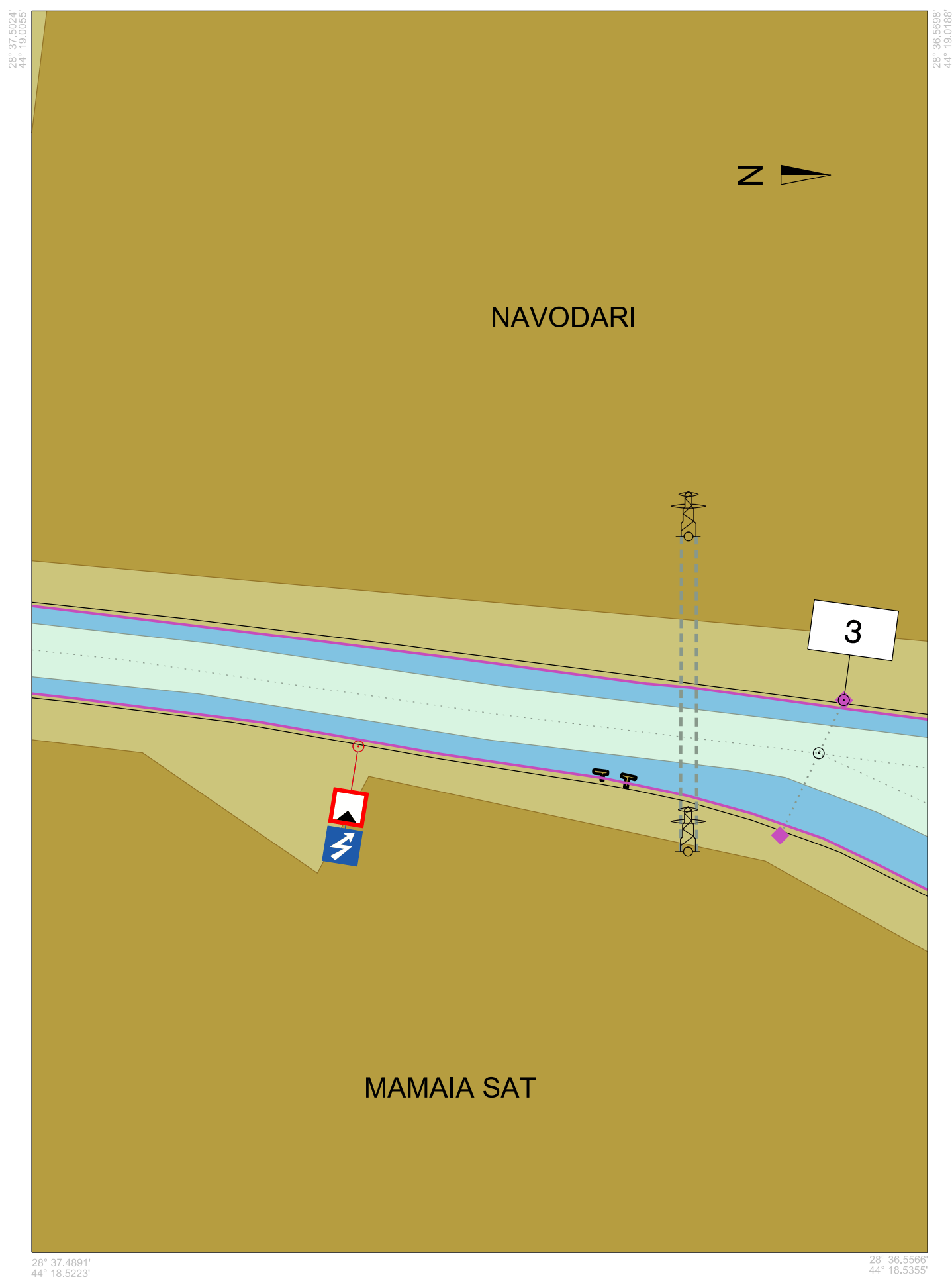
0 m

500 m

28° 37.4891'
44° 18.5223'

28° 36.5566'
44° 18.5355'



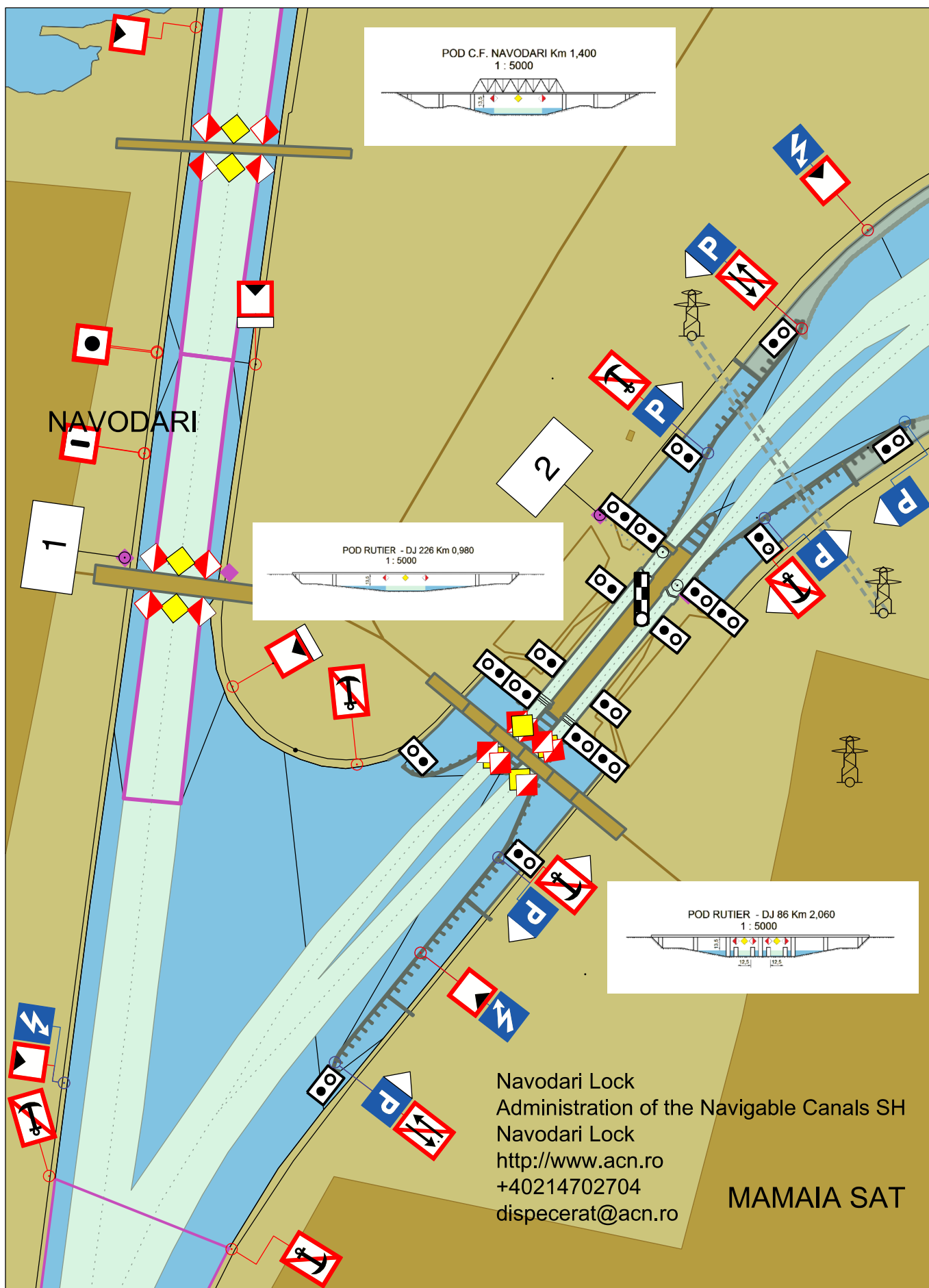


0 m

500 m

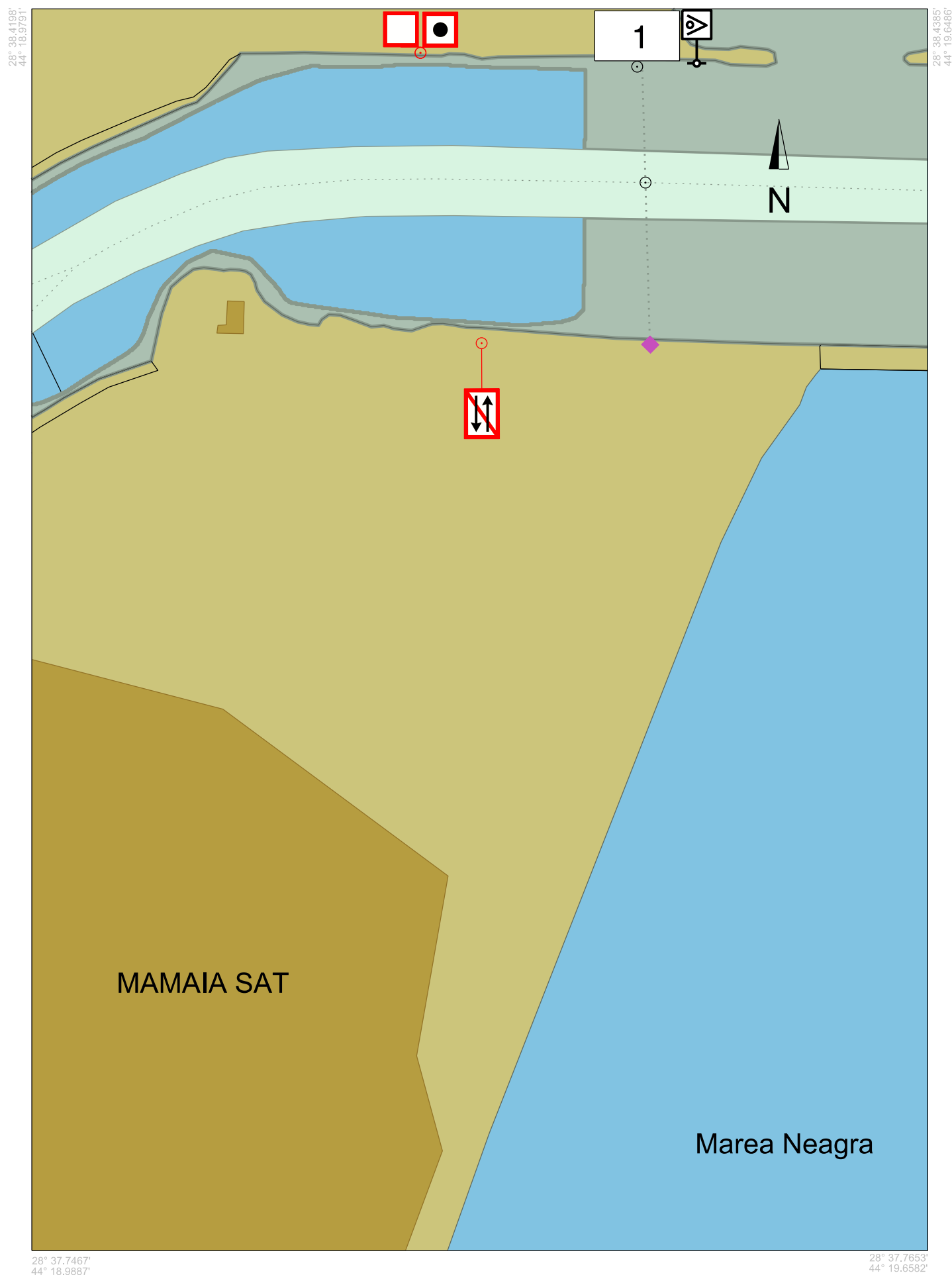
28° 37' 7467"
44° 18' 9887"

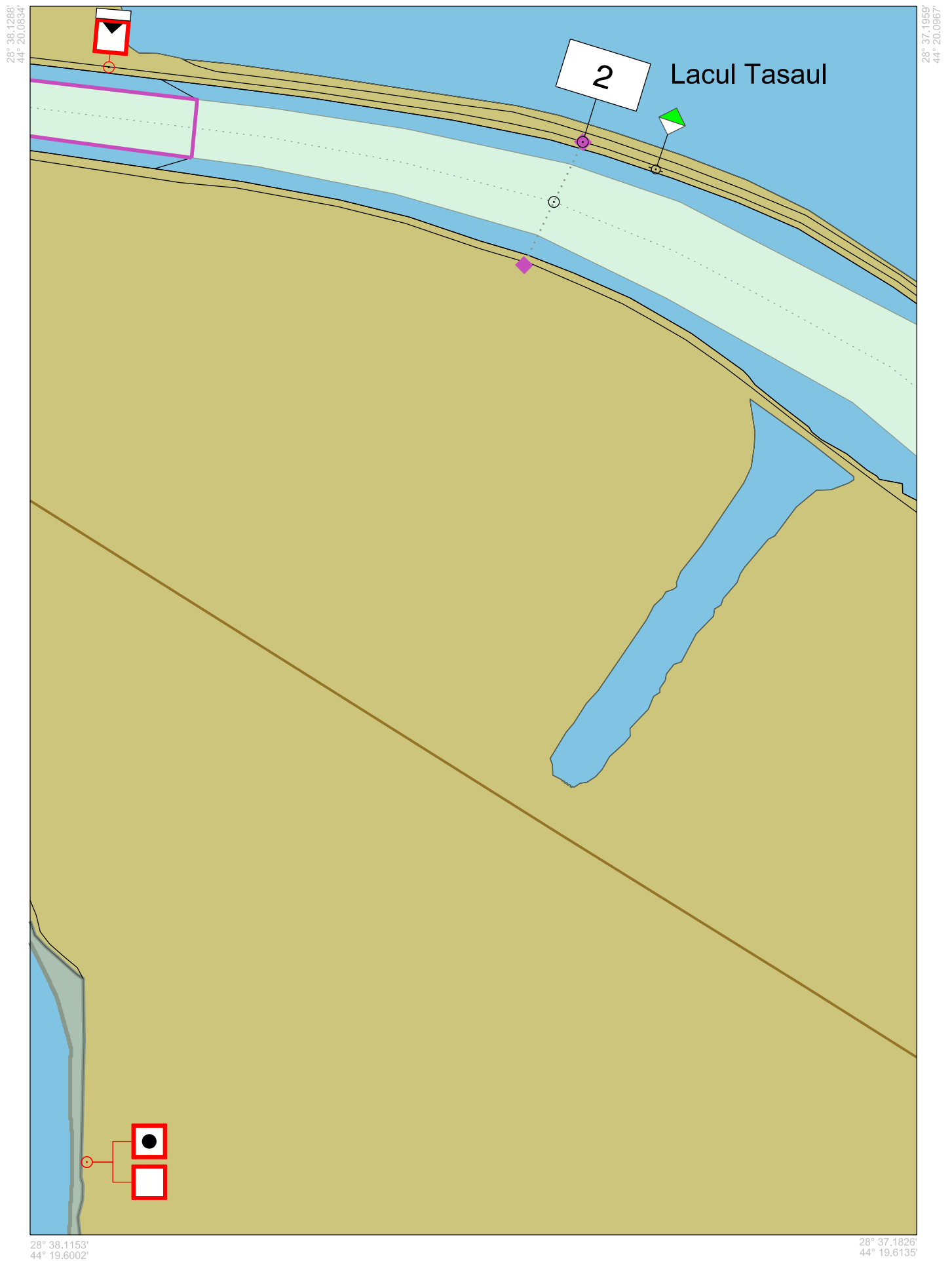
28° 37' 7653"
44° 19' 6582"

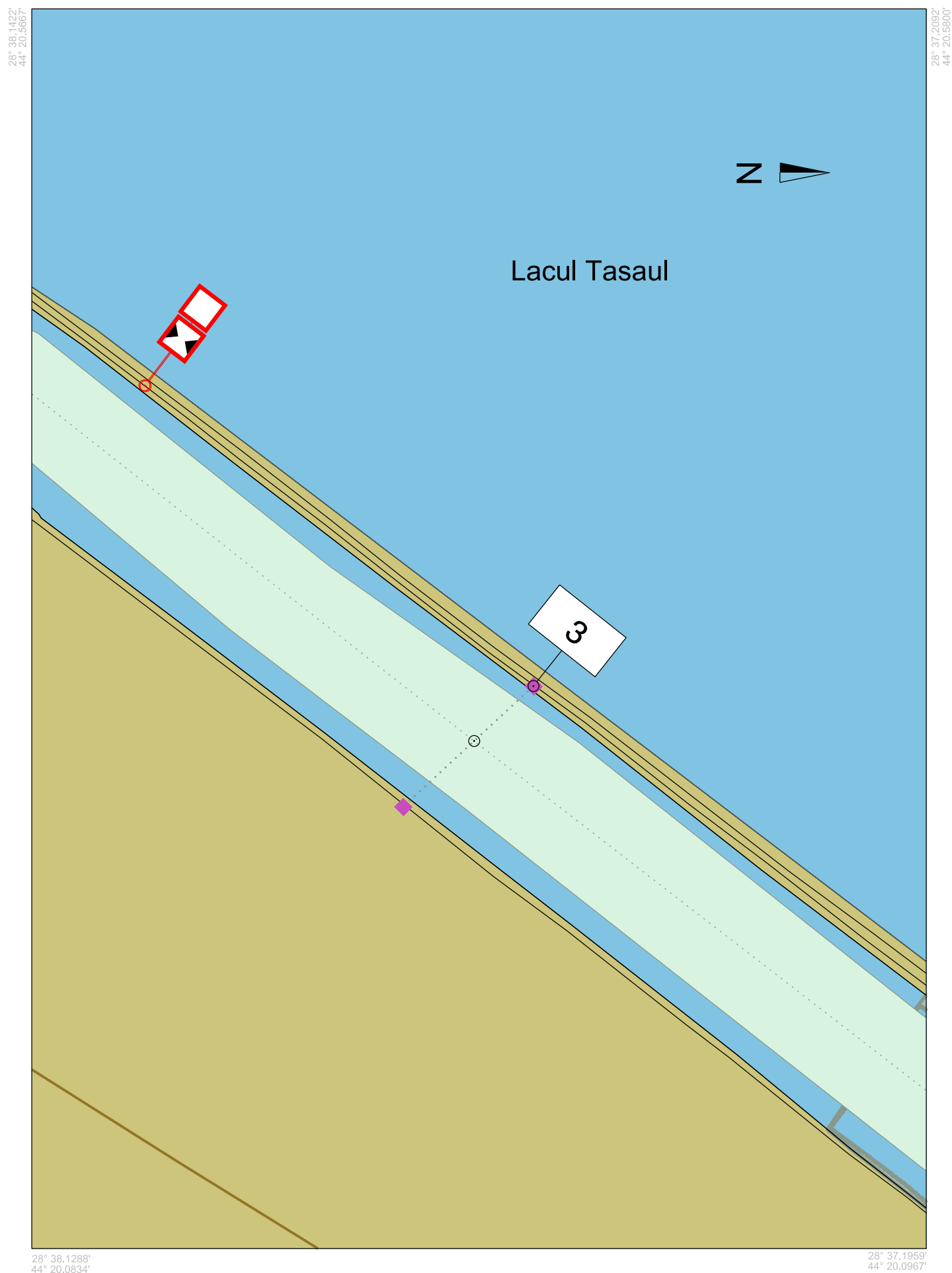


28° 37' 0736"
44° 18' 9983"

28° 37' 0920"
44° 19' 6678"







0 m

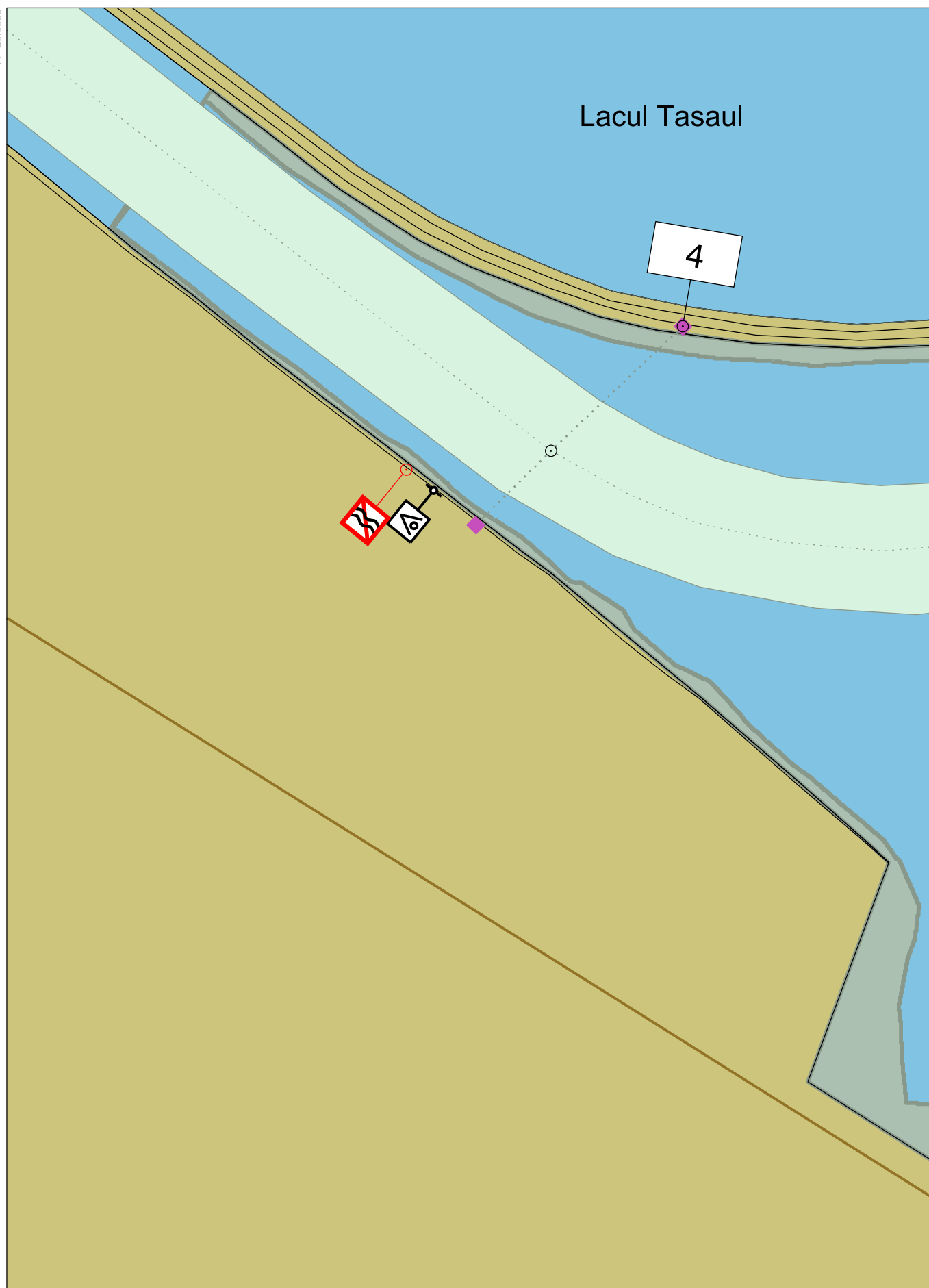
500 m

28° 38.8351'
44° 20.9330'

28° 37.9021'
44° 20.9464'

Lacul Tasaul

4



28° 38.8216'
44° 20.4498'

28° 37.8887'
44° 20.4632'

