

Road Survey Berth - Aktobe - Nur Sultan - Erementau

Project: ENO Wind Turbines / Erementau (KZ)

Doc. No: ENO_RS_2021902 Date: 29.01.2021

1. INTRODUCTION

Documentation of the project organization of transportation heavy and oversized cargo meets all the necessary requirements of technical regulations and regulatory documents and provides for measures to ensure traffic safety in compliance with all required conditions and operating rules. For general calculation we recommendation to our subcontracted design engineers using of tachymeter.

The main task during the work was to check the transport condition of the state highway including evaluation of the possibility of the transit on it of a large-sized heavy-duty vehicle, without causing damages to the road, pavements and artificial constructions on it. In order to solve this problem, a complex analysis was made to check if the road, pavement, roadbed and artificial constructions can handle the thrust.

Based on these results a scientific-technical report has been developed containing the results of the evaluation of transport and operational condition of highways and artificial constructions.



4.TECHNICAL SURVEY

- 4. 1. Technical survey of the route for the delivery of oversized and heavy cargo on the public roads by transport vehicle was made from Point of Loading in Port KCOI (KZ), to site in Nur Sultan (KZ).
- 4.2. Technical survey of roads on the route was made by means of visual survey, measuring and studying of technical characteristics of carrying capacity of roads and constructions (quality of load-carrying structure, elements of roads and measurements of bridges, overpasses, engineering service lines and other constructions).
- 4.3. Characteristics of roads and constructions on them.

4.3.1. Bridgework

Bridges and overpasses have strategic significance. Maximal axial load is 10 to on every bridgework. Quantity of axes used for the transportation of oversized cargo has to be exactly determined for the transportation on the bridgework taking into account maximal axial load 10 to.

4.3.2. Roads

For the transportation of oversized cargo on the road has to be taken into account quality of roads, type of traffic- bearing surface, radius of degree of rotation and permissible maximal axial load.

4.3.3. Overground (air) engineering communications and constructions:

For the transportation of cargo through engineering communications and construction is necessary to take into account the height and width of empty space. On the route the main such constructions are piping (electrical, gas, water, etc.), traffic signs, overhead power lines and electric communications, traffic police station.

4.3.4. Railway crossings

Crossing over railway has to be coordinated and agreed with Government/ Road Authorities.

4.3.5. Slopes

The possibility of transportation on longitudinal slopes has to be thoroughly calculated taking into account weight of cargo, technical characteristics and systems of transport vehicles, appropriate choice of truck and trailer.

4.3.6. Turns to the right and to the left

Taking into account the measurement of cargo in this survey was indicated the maximal length of a road train for passing of each turn. At some places it will be necessary to widen a road so that road-train can better manoeuvre while turning.

4.3.7. Road transportation

The rules of organization and executing of transportation of oversized cargo are regulated by the Resolution of Ministry of Government



5. BERTH INFORMATION







Location: KCOI
(nr 12_1)
Coordinates: 43.876965, 51.01057
Obstacles: Berth

Remarks:

Berth deep: 3m

2 mobile cranes 280 t and 180 tn, leght of the total length of the berth is 200m and the concrete area 120 m







6. ROUTE OVERVIEW

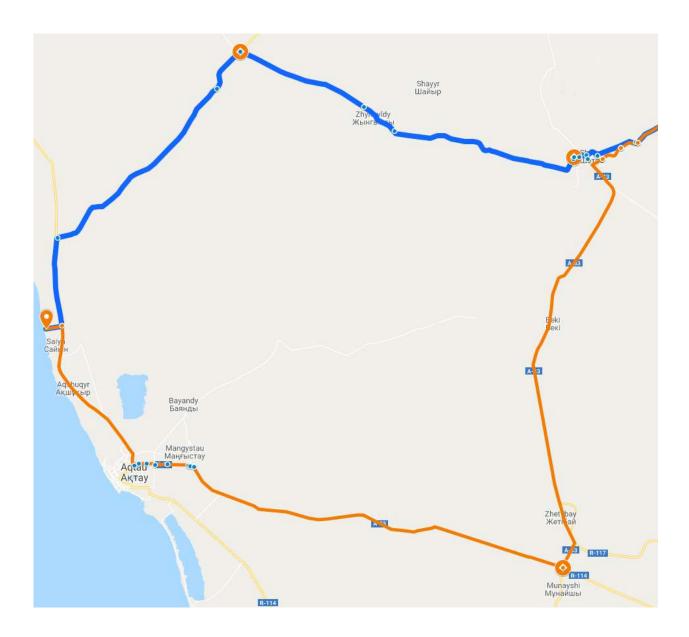
Turn to Shetpe – Shetpe (blue route)	5
Turn to Shetpe – Shetpe (orange route)	10
Shetpe – Atyrau	17
Atyrau – Uralsk	35
Uralsk - Aktobe	41
Aktobe - Kostanay	89
Kostanay - Astana	123
Astana - Frementau	158



Route: Turn to Shetpe – Shetpe (blue route)

Distance: 116 km

Cargo type: Heavy lift, general (blue route)







(nr 13_12)

Coordinates: 44.24093, 51.370518

Obstacles: Road

Remarks:

Road construction

Navigation:



Location: KCOI-Shetpe

(nr 13_13)

Coordinates: 44.29718, 51.420208

Obstacles: Turn

Remarks:

no construction required

Navigation:



Location: KCOI-Shetpe

(nr 13_14)

Coordinates: 44.213673, 51.681038

Obstacles: Archway

Remarks:

archway height h = 7 m





(nr 13_15)

Coordinates: 44.17697, 51.745544

Obstacles: Archway

Remarks:

archway height h = 6,9 m

Navigation:



Location: KCOI-Shetpe

(nr 13_17)

Coordinates: 44.137604, 52.125317

Obstacles: Turn

Remarks:

no construction required

Application №3

Navigation:



Location: KCOI-Shetpe

(nr 13_18)

Coordinates: 44.138325, 52.13496

Obstacles: Culverts

Remarks:

pipelines









(nr 13_19)

Coordinates: 44.14031, 52.17364

Obstacles: Turn

Remarks:

no construction required

Application №4













Location: KCOI-Shetpe (nr 13_20)

Coordinates: 44.16014, 52.255554

Obstacles: Turn

Remarks:

Road signs remouving

Application №5





(nr 14_21)

Coordinates: 44.15996, 52.259274

Obstacles: Turn

Remarks:

no construction required

Application №5

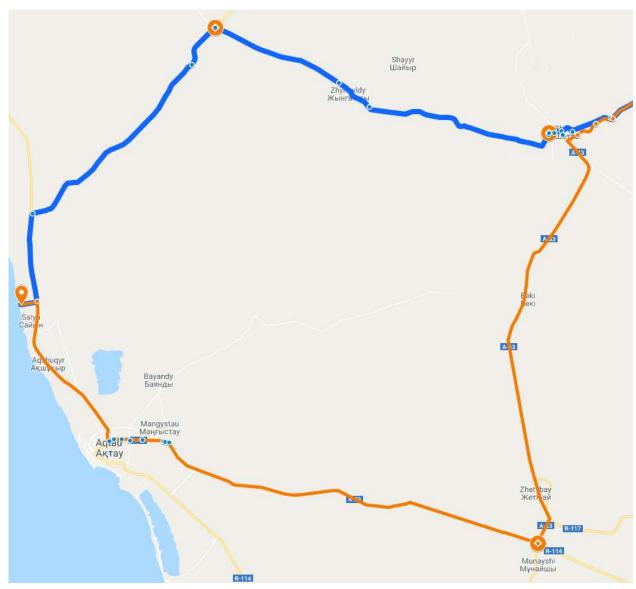
Navigation:

Route: Turn to Shetpe – Shetpe (orange route)

Distance: 206 km

Cargo type: Blades (orange route)





Obstacles:

Aktau - Shetpe - Manata -	Location:
Beineu	(nr 14_01)
43.668724, 51.196255	Coordinates:
Turn	Obstacles:







Remarks:

no construction required

Application №6

archway height h = 6.0 m

Navigation:



Location: Aktau - Shetpe - Manata - (nr 14_02) Beineu

Coordinates: 43.671783, 51.20637

Obstacles: Archway

Remarks:

archway height h = 5,8 m





Location:	Aktau - Shetpe - Manata -
(nr 14_03)	Beineu

43.67178, 51.22196 Coordinates:

Archway Obstacles:

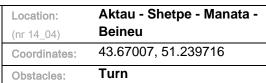
Remarks:

archway height h = 5,7 m

Navigation:



	Lo (nr
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人	To mo
	Ap Na
018 08:05	



emarks:

o pass the turn, you must first turn left nove backwards through the railway rossing to the intersection

pplication №7







Location:	Aktau - Shetpe - Manata -
(nr 14 05)	Beineu

Coordinates: 43.67049, 51.266193

Obstacles: PTL

Remarks:

110 / height h = 7 m

Navigation:



Location:	Aktau - Shetpe - Manata -
(nr 14_06)	Beineu
Coordinates:	43.66921, 51.310295
Obstacles:	Archway

Remarks:

archway height h = 5.4 m; highway over crossing h = 5.9; archway height = 6.2 m



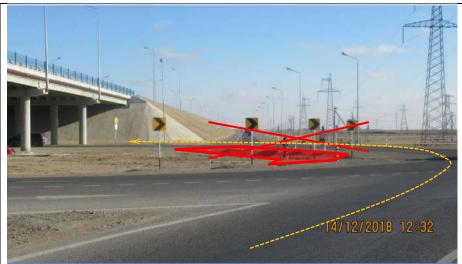
Location:	Aktau - Shetpe - Manata -
(nr 14_07)	Beineu
Coordinates:	43.668064, 51.314426
Obstacles:	Archway
Remarks:	
archway heig	yht h = 7,5 m





	Location:	Aktau - Shetpe - Manata -
	(nr 14_08)	Beineu
	Coordinates:	43.666412, 51.323025
	Obstacles:	Traffic circle
	Remarks:	
	all right	
i		

Navigation:



Location:
(nr 14_18)

Coordinates:

43.513016, 52.100983

Obstacles:

Highway over crossing
/traffic circle

Remarks:
archway height = 6,4 m,

archway height = 6,4 m, expanding of the road, dismantling of road signs on traffic circle, Application №8







Location:	Aktau - Shetpe - Manata -
(nr 14_19)	Beineu
Coordinates:	44.134438, 52.1851
Obstacles:	Traffic circle / Bridge

Remarks:

traffic circle - all right
Bridge technical characteristics:
total lenght: - 72 m
bridge scheme - 24x24x24 [m]
total width- 10m including pedestrian
crossings with width 1m
pier height- 6,3 m
technical state- without visible damage
Transportation in a

Navigation:

Location:

Navigation:



Coordinates: 44.151493, 52.223324 Obstacles: Bridges Remarks: Bridge technical characteristics: total lenght: - 15 m bridge scheme - 15 [m] total width- 12 m including pedestrian crossings with width 1m technical state- without visible damage/ bypass existing removing of the pillar and fences needed Transportation	(nr 14_20)	Beineu
Remarks: Bridge technical characteristics: total lenght: - 15 m bridge scheme - 15 [m] total width- 12 m including pedestrian crossings with width 1m technical state- without visible damage/ bypass existing removing of the pillar and fences needed	Coordinates:	44.151493, 52.223324
Bridge technical characteristics: total lenght: - 15 m bridge scheme - 15 [m] total width- 12 m including pedestrian crossings with width 1m technical state- without visible damage/ bypass existing removing of the pillar and fences needed	Obstacles:	Bridges
	Bridge technic total lenght: - bridge scheme total width- 12 crossings with technical state bypass existin removing of th	15 m e - 15 [m] t m including pedestrian n width 1m e- without visible damage/ ng ne pillar and fences needed

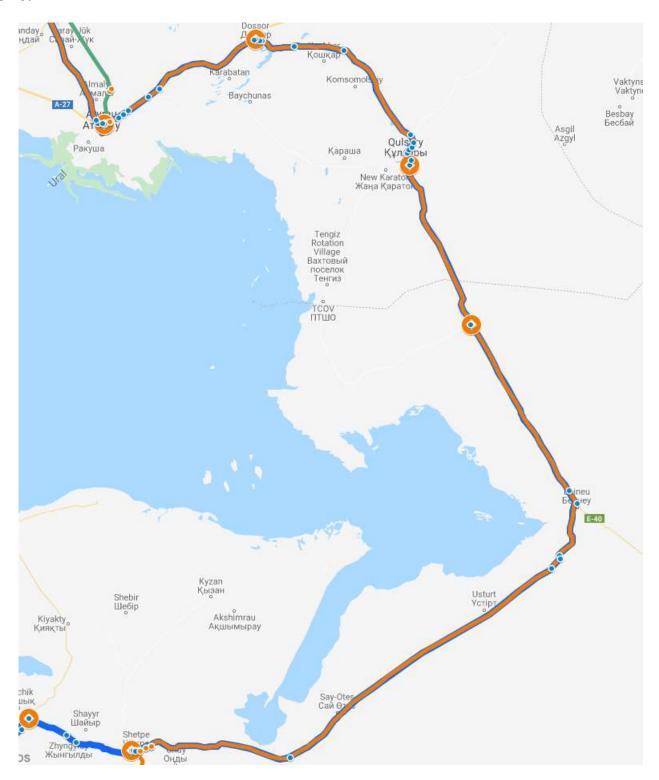
Aktau - Shetpe - Manata -



Route: Shetpe – Atyrau

Distance:

Cargo type: Blades, heavy lift, general









Location:	Aktau - Shetpe - Manata -
(nr 14_22)	Beineu
Coordinates:	44.103252, 53.210026
Obstacles:	MANATA

Remarks:

Length from 100m till 800m with slopes from 5% till 10% 4 high voltage lines with height from 8m up to 11m. It is necessary to switch off both.







Location: Aktau - Shetpe - Manata (nr 14_25) Beineu

Coordinates: 45.072144, 55.06185

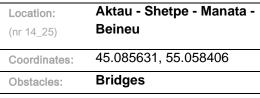
Obstacles: Bridges

Remarks:

Bypass for heavy cargo existing, checking of pipes, driveways is necessary







Remarks:

Bypass for heavy cargo existing, checking of pipes, driveways is necessary









Location: Beineu - Quisary - Atyrau (nr 15_01)

Coordinates: 45.34179, 55.177814

Obstacles: Turn

Remarks:

no construction required

Navigation:



Location: Beineu - Quisary - Atyrau (nr 15_02)

Coordinates: 45.40045, 55.123787

Obstacles: Archway

Remarks:

archway with camera, height h = 6,2 m

Navigation:



Location: Beineu - Quisary - Atyrau (nr 15_03)

Coordinates: 46.19458, 54.452847

Obstacles: Turn

Remarks:

billboard dismantling





I	Location:	Beineu - Quisary - Atyrau

(nr 15_04)

Coordinates: 46.194534, 54.45072

Obstacles: Turn

Remarks:

no construction required

Navigation:



Location: Beineu - Quisary - Atyrau (nr 15_05)

Coordinates: 46.94513, 54.028774

Obstacles: Turn

Remarks:

Dismantling traffic signs if necessary

Application №9











Location: Beineu - Quisary - Atyrau
(nr 15_06)

Coordinates: 46.970177, 54.04142

Obstacles: Bridges

Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 12x12x12 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 3 m technical state- without visible damage Transportation in a single order along the bridg









Location: Beineu - Quisary - Atyrau
(nr 15_07)
Coordinates: 46.997643, 54.00907
Obstacles: Bridges

Remarks:

Bridge technical characteristics: total lenght: - 48 m bridge scheme - 12x12x12x12 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 3 m technical state- without visible damage Transportation in a single order along the br





Location: Beineu - Quisary - Atyrau

(nr 15_08)

Coordinates: 47.001957, 54.011837

Obstacles: Archway

Remarks:

archway height h = 6,5 m

Navigation:



Location: Beineu - Quisary - Atyrau (nr 15_09)

Coordinates: 47.016174, 54.026943

Obstacles: Bridges

Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 12x12x12 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 3 m technical state- without visible damage Transportation in a single order along the bridg











 Location:
 Beineu - Quisary - Atyrau

 (nr 15_10)
 47.029575, 54.04468

 Obstacles:
 Bridges

Remarks:

Bridge technical characteristics: total lenght: - 48 m bridge scheme - 12x12x12x12 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 3,4 m technical state- without visible damage Transportation in a single order along the









 Location:
 Beineu - Quisary - Atyrau

 (nr 15_11)
 47.051716, 54.05884

 Obstacles:
 Bridges

Remarks:

Bridge technical characteristics: total lenght: - 210 m bridge scheme - 21x21x21x21x21x21x21x21x21x21x21x21 [m] total width- 10 m including pedestrian crossings with width 1m pier height- 3,5 m technical state- without visible damage Transportation in a sing









Location: Beineu - Quisary - Atyrau

(nr 15_13)

Coordinates: 47.481777, 53.577785

Obstacles: Bridge over railway

Remarks:

Bridge technical characteristics: total lenght: - 48 m bridge scheme - 12x12x12x12 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 3,4 m technical state- without visible damage Transportation in a single order along the









Location: Beineu - Quisary - Atyrau

(nr 15_14)

Coordinates: 47.49817, 53.237034

Obstacles: Bridges

Remarks:

Bridge technical characteristics:

total lenght: - 36 m

bridge scheme - 18x18 [m]

total width- 10m including pedestrian

crossings with width 1m

pier height- 3 m

technical state- without visible damage
Transportation in a single order along the

bridge ce







Remarks:

Bridge technical characteristics: total lenght: - 42 m bridge scheme - 12x18x12 [m] total width- 10m including pedestrian crossings with width 1m pier height- 7 m technical state- without visible damage Transportation in a single order along the bridge

Navigation:



Location: Beineu - Quisary - Atyrau (nr 15_16)

Coordinates: 47.52485, 53.003063

Obstacles: Archway

Remarks:

archway height h = 6,7 m





Location:	Beineu - Quisary - Atyrau
(nr 15_17)	

Coordinates: 47.531307, 52.977673

Obstacles: Turn

Remarks:

no construction required

Application №10

Navigation:



Location:	Beineu - Quisary - Atyrau
(nr 15 18)	

Coordinates: 47.52949, 52.963074

Obstacles: Archway

Remarks:

archway height h = 8,2 m

Navigation:



Location: Beineu - Quisary - Atyrau

Coordinates: 47.300926, 52.315205

Obstacles: Bridges

Remarks:

(nr 15_19)

Bridge technical characteristics:

total lenght: - 36 m

bridge scheme - 12x12x12 [m]

total width- 12 m including pedestrian

crossings with width 1m

pier height- 8 m

technical state- without visible damage

/bypass existing

Transportation in a single ord







Location: Beineu - Quisary - Atyrau

(nr 15_20)

Coordinates: 47.2625, 52.239628

Obstacles: Archway

Remarks:

archway height h = 7,4 m

Navigation:



 Location:
 Beineu - Quisary - Atyrau

 (nr 15_21)
 47.199886, 52.104767

 Obstacles:
 Bridges

Remarks:

Bypass for heavy carco existing









Location: Beineu - Quisary - Atyrau (nr 15_22)

Coordinates: 47.18394, 52.070995

Obstacles: Bridges

Remarks:

Bypass for heavy carco existing





Location: Beineu - Quisary - Atyrau (nr 15_23)

Coordinates: 47.1685, 52.03601

Obstacles: Bridges

Remarks:

Bypass for heavy carco existing

Navigation:



Location: Beineu - Quisary - Atyrau (nr 15_24)

Coordinates: 47.14605, 51.975815

Obstacles: Archway and turn

Remarks:

archway height h = 7 m

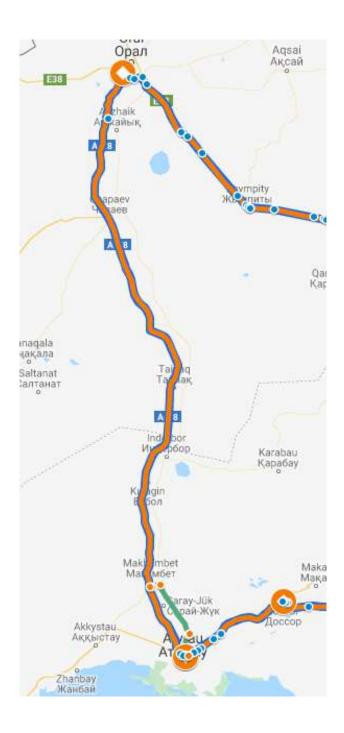
Topography will be created



Route: Atyrau – Uralsk

Distance: Main route

Cargo type:









Location: Atyrau-Uralsk (green route)

Coordinates: 47.290623, 51.979023

Obstacles: Bridges

Remarks:

Bridge technical characteristics:
total lenght: - 36 m
bridge scheme - 18x18 [m]
total width- 10m including pedestrian
crossings with width 1m
pier height- 2 m
technical state- without visible damage
Transportation in a single order along the

Navigation: IMG_1909 IMG_1908

bridge center line.



Location: Atyrau-Uralsk (green route)

Coordinates: 47.293728, 51.980923

Obstacles: Archway

Remarks:

archway height h = 7 m

Navigation:

IMG_1911







Location: (nr 16_5)	Atyrau-Uralsk (green route)
Coordinates:	47.30039, 51.984947
Obstacles:	Bridges

Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 18x18 [m] total width- 10m including pedestrian crossings with width 1m pier height- 2,5 m technical state- without visible damage Transportation in a single order along the bridge center line.

Navigation:

IMG_1915 IMG_1916



Location:	Atyrau-Uralsk(green
(nr 18_04_01)	route)
Coordinates:	47.65144, 51.67734
Obstacles:	Turn
Remarks:	

Navigation:

Turn OK

IMG_20190418_140409





Location:	Atyrau-Uralsk (green
(nr 18_04_02)	route)
Coordinates:	47.635715, 51.593853
Obstacles:	Bridges
Remarks:	
Remarks.	

Navigation:

IMG_20190418_135730



Location:	Atyrau-Uralsk (green
(nr 18_04_03)	route)
Coordinates:	47.634766, 51.567406
Obstacles:	Turn
Remarks: Turn ok	

Navigation:

IMG_20190418_135435





Location: Atyrau - Uralsk
(nr 16_06)

Coordinates: 50.856747, 51.128498

Obstacles: Bridges

Remarks:

Bridge technical characteristics: total lenght: - 63 m

bridge scheme - 21x21x21 [m] total width- 12 m including pedestrian

crossings with width 1m

pier height- 3 m

technical state- without visible damage Transportation in a single order along the bridg

bridg

Navigation:



Location: Atyrau - Uralsk

Coordinates: 50.95547, 51.145367

Obstacles: Bridges

Remarks:

Bridge technical characteristics:

total lenght: - 48 m

bridge scheme - 15x18x15 [m]

total width- 12 m including pedestrian

crossings with width 1m

pier height- 5.3 m

technical state- without visible damage Transportation in a single order along the

bridg

Navigation:



Location: Atyrau - Uralsk

Coordinates: 51.02798, 51.206314

Obstacles: Bridges

Remarks:

Bridge technical characteristics:

total lenght: - 30 m

bridge scheme - 15x15 [m]

total width- 12 m including pedestrian

crossings with width 1m

pier height- 4.4 m

technical state- without visible damage Transportation in a single order along the

bridg





Location: Atyrau - Uralsk

Coordinates: 51.15875, 51.287792

Obstacles: Turn

Remarks:

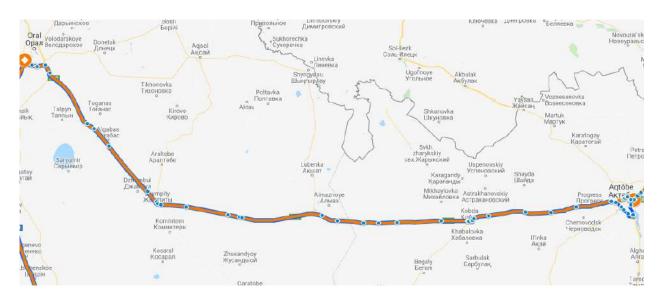
no construction required

Application №11



Route: Uralsk - Aktobe

Distance:
Cargo type:











E38 / Ural river Location: (nr 32) 51.12603, 51.36016 Coordinates: Bridge Obstacles:

Remarks:

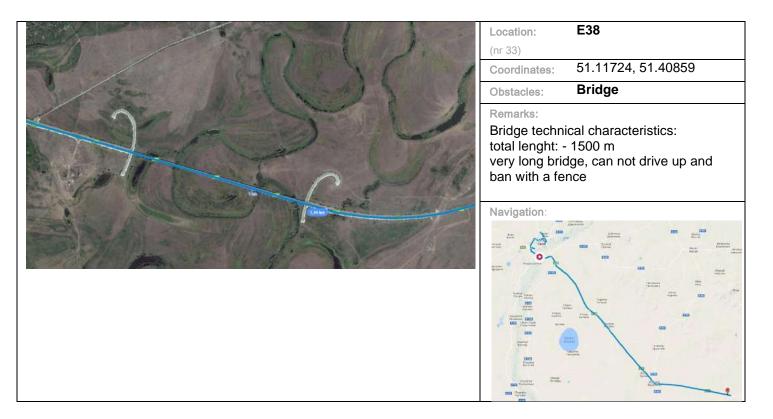
bridge center line

Bridge technical characteristics: total lenght: - 500 m bridge scheme - 100x100x100x100x100 total width- 12m including pedestrian crossings with width 1m pier height- 16 m technical state-long service life, year of construction 1998 Transportation in a single order along the



















Location: E38 / Barbastau river
(nr 35)

Coordinates: 51.08006, 51.538918

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: -72 m bridge scheme - 24x24x24 [m] total width- 12m including pedestrian crossings with width 2m pier height- 7 m technical state-without visible damage, Transportation in a single order along the bridge center line.













E38 / Sholakankaty river Location: (nr 36) 50.765495, 51.904694 Coordinates: Bridge Obstacles:

Remarks:

Bridge technical characteristics: total lenght: -54 m bridge scheme - 18x18x18 [m] total width- 12m including pedestrian crossings with width 1m pier height- 8 m technical state-without visible damage, Transportation in a single order along the bridge center line.









Location: E38 / Uzynankaty river
(nr 37)
Coordinates: 50.733658, 51.970745
Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: -54 m bridge scheme - 18x18x18 [m] total width- 12m including pedestrian crossings with width 1m pier height- 5,5 m technical state-without visible damage, Transportation in a single order along the bridge center line.





Location: E38 / Yesen Ankaty river
(nr 38)

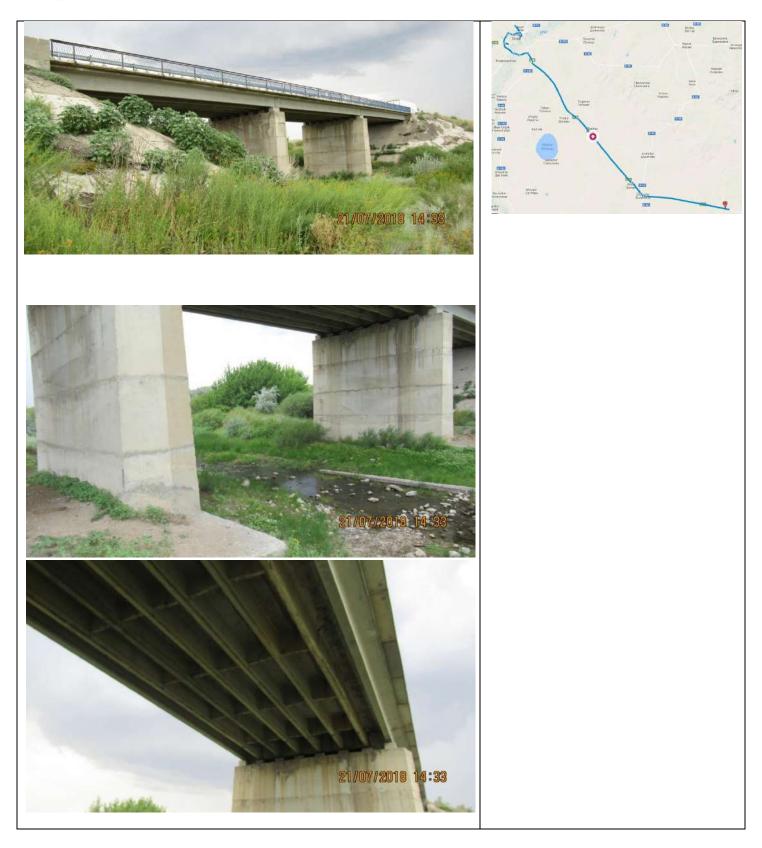
Coordinates: 50.624535, 52.118683

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: -72 m bridge scheme - 24x24x24 [m] total width- 11m including pedestrian crossings with width 1m pier height- 10,5 m technical state-without visible damage, Transportation in a single order along the bridge center line.













Location: E-38 / Shiderti river
(nr 39)
Coordinates: 50.340534, 52.49753
Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: -45 m bridge scheme - 12x21x12 [m] total width- 10m including pedestrian crossings with width 1m pier height- 5,6 m technical state-cracks on the supports Transportation in a single order along the bridge center line bypass construction is possible.











E-38 / Zhympity Location: (nr 40) 50.274063, 52.584118 Coordinates: Archway Obstacles: Remarks: archway height h = 5,9 m







E-38 / Zhympity/ Olenti Location: (nr 41) 50.264595, 52.59764 Coordinates: **Bridge** Obstacles:

Remarks:

Bridge technical characteristics: total lenght: -72 m bridge scheme - 24x24x24 [m] total width- 12m including pedestrian crossings with width 1m pier height- 6 m technical state-without visible damage, Transportation in a single order along the bridge center line.









Location: E-38 / Zhympity
(nr 42)
Coordinates: 50.257694, 52.628967
Obstacles: Archway
Remarks: archway height h = 5,5 m
Navigation:





Location: E-38 / Zhympity

(nr 44)

Coordinates: 50.25765, 52.62888

Obstacles: Archway

Remarks:

archway height h = 6.0m







Location: E-38 /Amansay river (nr 45)

Coordinates: 50.245144, 52.87697

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 18 m bridge scheme - 18 [m]

total width- 12 m including pedestrian

crossings with width 1m

pier height- 5 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.











Location: E-38 / Tamdy river
(nr 46)

Coordinates: 50.195065, 53.28938

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 54 m bridge scheme - 18x18x18 [m] total width- 10 m including pedestrian crossings with width 1m pier height- 3 m technical state-without visible damage, Transportation in a single order along the bridge center line.











Location: E-38 / Buldurty river (nr 47)

Coordinates: 50.180786, 53.40417

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 42 m bridge scheme - 21x21 [m] total width- 10 m including pedestrian crossings with width 1m pier height- 4 m technical state-without visible damage, expanded

Transportation in a single order along the bridge center line.











Location: E-38 / Shieli river
(nr 48)

Coordinates: 50.17731, 53.42785

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 63 m bridge scheme - 21x21x21 [m] total width- 10 m including pedestrian crossings with width 1m pier height- 5 m technical state-without visible damage, expanded Transportation in a single order along the bridge center line.















Location: E-38 / Kuagash river
(nr 49)

Coordinates: 50.189255, 54.216923

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 21x15 [m] total width- 10 m including pedestrian crossings with width 1m pier height- 3 m technical state-without visible damage, Transportation in a single order along the bridge center line.











E-38 / Bayanas river Location: (nr 50) 50.15658, 54.36593 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics: total lenght: - 15 m bridge scheme - 15 [m] total width- 10 m including pedestrian crossings with width 1m technical state-without visible damage, Transportation in a single order along the bridge center line.





E-38 / Kiyl river Location: (nr 51) 50.142185, 54.622753 Coordinates: Bridge Obstacles:

Remarks:

bridge center line.

Bridge technical characteristics: total lenght: - 54 m bridge scheme - 18x18x18 [m] total width- 10 m including pedestrian crossings with width 1m pier height- 7 m technical state-parts of reinforcement is Transportation in a single order along the











E-38 / Kartaldy river Location: (nr 52) 50.142235, 54.770805 Coordinates: Bridge Obstacles: Remarks:

Bridge technical characteristics: total lenght: - 30 m bridge scheme - 15x15 [m] total width- 10 m including pedestrian crossings with width 1m pier height- 5 m technical state-without visible damage, expanded Transportation in a single order along the

bridge center line, bypass construction is possible.

















Location: E-38 / Cuel-Bulak river

Coordinates: 50.146717, 54.95227

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 30 m bridge scheme - 15x15 [m] total width- 10 m including pedestrian crossings with width 1m pier height- 5 m technical state-without visible damage, Transportation in a single order along the bridge center line.







E -38 / Veselyy Location: (nr 54) 50.15702, 55.38734 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 18x18 [m] total width- 10 m including pedestrian crossings with width 1m pier height- 3 m technical state-without visible damage, Transportation in a single order along the bridge center line.











Location: E-38 / Kobda

(nr 55)

Coordinates: 50.1548, 55.643997

Obstacles: Archway

Remarks:

archway height h = 5.7 m





Location: E-38 / Kobda

(nr 56)

Coordinates: 50.15376, 55.65302

Obstacles: Archway

Remarks:

archway height h = 5.8 m





Location: E-38 / Kobda (nr 57)

Coordinates: 50.152943, 55.660225

Obstacles: Turn

Remarks:

For Blades: traffic directly under the prohibiting traffic sign in the city center









Location: E-38 / Kobda

(nr 61)

Coordinates: 50.15595, 55.690018

Obstacles: Archway

Remarks:

archway height h = 6.0m

Navigation:





Location: E-38 / Big Kobda river

Coordinates: 50.157143, 55.691414

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 150 m bridge scheme -

15x15x15x15x15x15x15x15x15x15 [m] total width- 10 m including pedestrian

crossings with width 1m

pier height- 5,7 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.















Location: E-38
(nr 64)

Coordinates: 50.168274, 55.710434

Obstacles: Archway

Remarks:
archway height h = 5,7 m

Navigation:



Location: E-38 / Terisakkan river

Coordinates: 50.189156, 55.853027

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 81 m bridge scheme - 13,5x13,5x13,5 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 3 m technical state-without visible damage, Transportation in a single order along the bridge center line.









Location: E-38 / Balakobda

(nr 66)

50.21065, 56.218063

Obstacles: Bridge

Coordinates:

Remarks:

Bridge technical characteristics:

total lenght: - 81 m bridge scheme -

13,5x13,5x13,5x13,5x13,5 [m] total width- 12 m including pedestrian

crossings with width 1m

pier height- 6,7 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.















E-38 / Karakobda river Location: (nr 67) 50.20789, 56.470264 Coordinates: Bridge Obstacles:

Remarks:

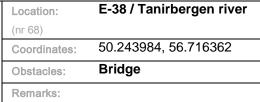
Bridge technical characteristics: total lenght: - 75 m bridge scheme - 15x15x15x15x15 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 3,1 m technical state-without visible damage, Transportation in a single order along the bridge center line.











Bridge technical characteristics: total lenght: - 54 m bridge scheme - 18x18x18 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 5 m technical state-without visible damage, Transportation in a single order along the bridge center line.











Location: E-38 / Zhanakonys

(nr 69)

Coordinates: 50.279186, 57.059025

Obstacles: Turn

Remarks:

Turn to right side - ok











Location: E-38 / Aqktobe

Coordinates: 50.271255, 57.10715

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 6 m bridge scheme - 6 [m]

total width- 12 m including pedestrian

crossings with width 1m pier height- 2,4 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.



Location: Aqktobe
(nr 72)

Coordinates: 50.242214, 57.15999

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: -48 m

bridge scheme - 16x16x16 [m] total width- 12 m including pedestrian

crossings with width 1m

pier height- 3,4 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.











Location: Aqktobe
(nr 73)

Coordinates: 50.24023, 57.162086

Obstacles: Traffic circle

Remarks:

ok









Coordinates:	50.224503, 57.18636	
Obstacles:	road repair	
		Coordinates: 50.224503, 57.18636

Remarks:

road repair at the moment of the dirt road





Location: Aqktobe

(nr 75)

Coordinates: 50.199974, 57.22691

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: -51 m

bridge scheme - 17x17x17 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 5 m

technical state-without visible damage, Transportation in a single order along the bridge center line.











 Location:
 Aqktobe

 (nr 76)
 50.186382, 57.271374

 Obstacles:
 Archway

 Remarks:
 Archway

archway height h = 5.8 m

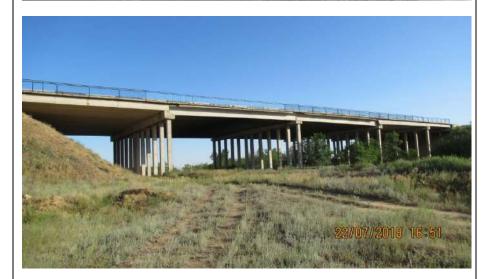
Navigation:

| Control | C









Aqktobe Location:

(nr 78)

50.188797, 57.27918 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics: total lenght: -90 m

bridge scheme - 12x18x21x21x18, [m] total width- 24 m including pedestrian

crossings with width 1m

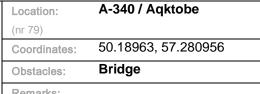
technical state-without visible damage, Transportation in a single order along the

bridge center line.









Remarks:

Bridge technical characteristics: total lenght: -105 m bridge scheme - 12x21x12 [m] total width- 12 m including pedestrian crossings with width 1m pier height- 5,5 m technical state- cracks on the supports and two central beams Transportation in a single order along the bridge center line.















Location: A-340 / Aqktobe

(nr 80)

Coordinates: 50.1897, 57.280262

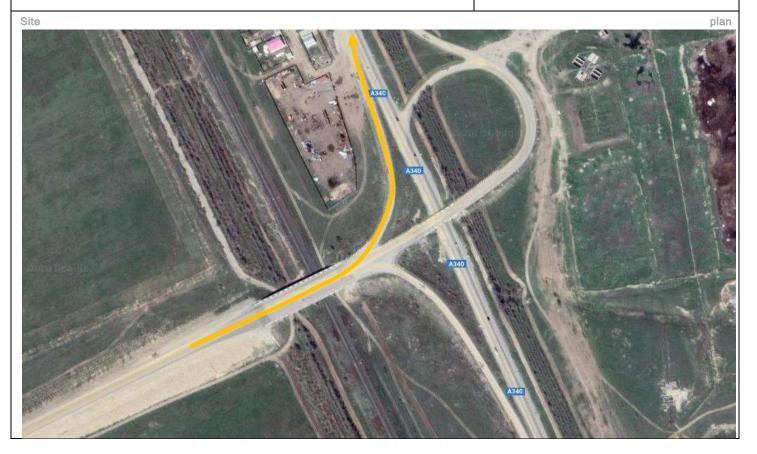
Obstacles: Turn

Remarks:

for heavy loads traffic to the intersection on the opposite lane, width 7m











Location: A-340 / Aqktobe

(nr 81)

Coordinates: 50.190907, 57.28207

Obstacles: Turn

Remarks:

for blades









A-340 / Aqktobe Location:

(nr 82)

50.19342, 57.278244 Coordinates:

Archway Obstacles:

Remarks:

archway height h = 6,4 m







bridge center line.

A-340 / Aqktobe Location: (nr 83)

50.25343, 57.252472 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics: total lenght: -54 m bridge scheme - 18x18x18 [m] total width- 16 m including pedestrian crossings with width 1m pier height- 7 m technical state-without visible damage, Transportation in a single order along the

Navigation:











Location: A-340 / Aqktobe

Coordinates: 50.257446, 57.25365

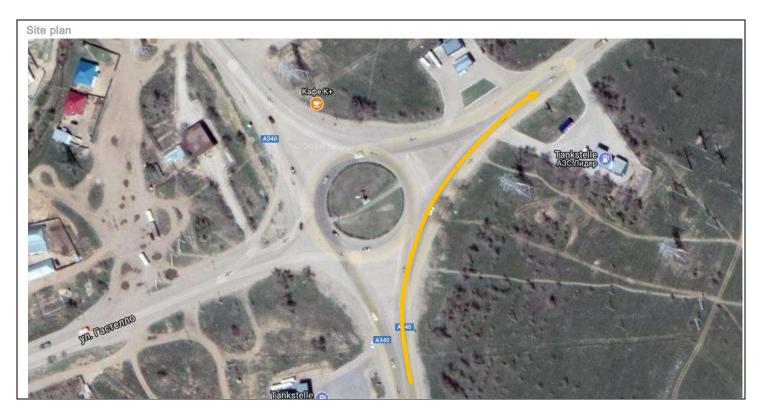
Obstacles: Traffic circle

Remarks:

ok









Location: A-340 / Aqktobe

(nr 85)

Coordinates: 50.285923, 57.25145

Obstacles: Archway

Remarks:

archway height h = 7,2 m







Location: A-340 / R-87 / Aqktobe

Coordinates: 50.286465, 57.250385

Obstacles: Traffic circle

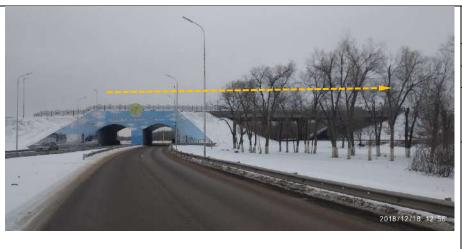
Remarks:

ok









Location: Aktobe, red route (nr 18.02)

Coordinates: 50.2943, 57.179886

Obstacles: Archway / Bridge

Remarks:

after conctruction, all right, technical state- without visible damage







Aktobe, red route Location: (nr 8.03)

50.29753, 57.18682 Coordinates:

Pipeline Obstacles:

Remarks:

archway height h = 6 m;

Navigation:





Aktobe, red route Location: (nr 18.04) 50.299606, 57.19526 Coordinates:

Bridges Obstacles:

Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 18x18 [m] total width- 28m including pedestrian crossings with width 2m pier height- 3,7 m technical state- without visible damage Transportation in a single order along the bridge

Navigation:

018/12/18 12







Aktobe, red route Location: (nr 18.05)

50.305817, 57.211758 Coordinates:

Archway Obstacles:

Remarks:

archway height ok

Navigation:





Aktobe, red route Location: (nr 18.06)

50.30541, 57.2247 Coordinates:

Archway Obstacles:

Remarks:

archway height h = 6 m; h =6m

Navigation:





Aktobe, red route Location: (nr 18.07)

50.287395, 57.247585 Coordinates:

Archway Obstacles:

Remarks:

archway height h = 7 m

Navigation:





Location: Aktobe, red route
(nr 18.08)

Coordinates: 50.287113, 57.24837

Obstacles: Traffic circle

Remarks: all right

Navigation:





Location: E-38/ R-87 / Zarechiniy

Coordinates: 50.288742, 57.252888

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght - 216 m bridge scheme - 24x24x24x24x24x24x24x24x24x24x24x24[m] total width- 12m including pedestrian crossings with width 1m pier height- 6,6 m technical state-without visible damage, Transportation in a single order along the bridge center line.











Location: E-38/ R-87 / Zarechiniy
(nr 88)

Coordinates: 50.28916, 57.253635

Obstacles: Archway

Remarks:

Archway h=5,8 m

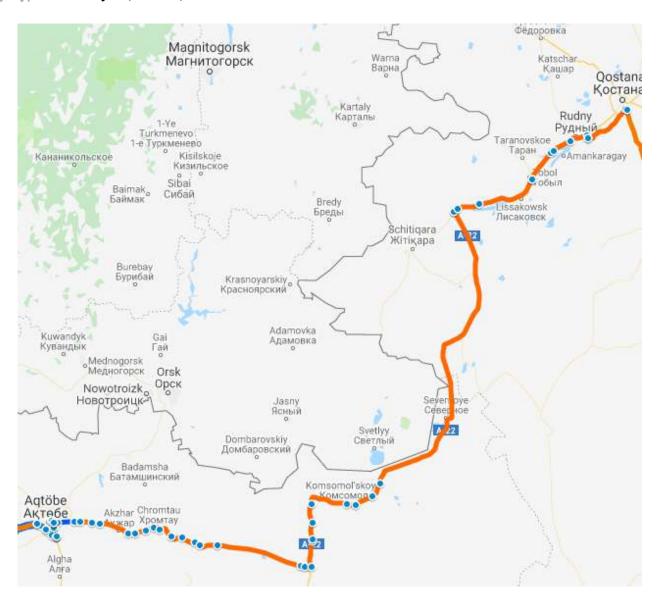




Route: Aktobe - Kostanay

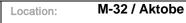
Distance: 469 km

Cargo type: Heavy lift, Blades, General









(nr 324)

Coordinates: 50.294342, 57.48587

Obstacles: Bridge

Remarks:

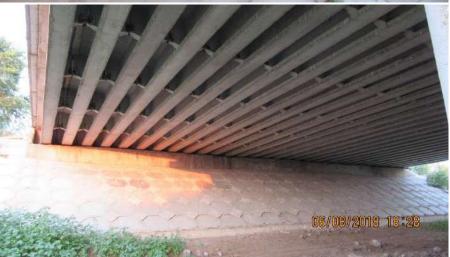
Bridge technical characteristics: total lenght: - 36 m bridge scheme - 18x18 [m] total width- 24 m including pedestrian crossings with width 1 m pier height- 6 m technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe

IMG_0085, IMG_0086, IMG_0087









Location: M-32

(nr 323)

Coordinates: 50.29385, 57.543354

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 18x18 [m] total width- 24 m including pedestrian crossings with width 1 m pier height- 6,5 m technical state-without visible damage, Transportation in a single order along the

bridge center line.

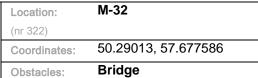
Navigation: Kostanai-Aktobe

IMG_0079, IMG_0081, IMG_0083









Remarks:

Bridge technical characteristics: total lenght: - 54 m bridge scheme - 18x18x18 [m] total width- 12 m including pedestrian crossings with width 1 m pier height- 6,2 m technical state-without visible damage, Transportation in a single order along the bridge center line.



Navigation: Kostanai-Aktobe

IMG_0075, IMG_0076, IMG_0078









Coordinates: 50.283085, 57.761642

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 54 m bridge scheme - 18x18x18 [m] total width- 12 m including pedestrian crossings with width 1 m

pier height- 9,5 m

technical state-without visible damage, Transportation in a single order along the bridge center line.

Navigation: Kostanai-Aktobe

IMG_0067, IMG_0068, IMG_0069, IMG_0070











Location: M-32 (nr 320)

Coordinates: 50.21339, 58.083847

Obstacles: Railwaycrossing

Remarks:

unmanned level crossing

Navigation: Kostanai-Aktobe

IMG_0063



Location: M-32

(nr 319)

Coordinates: 50.20945, 58.1577

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 33 m bridge scheme - 33 [m]

total width- 10 m including pedestrian

crossings with width 1 m

pier height- 4 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.





Navigation: Kostanai-Aktobe IMG_0058, IMG_0060





Location: M-32

(nr 318)

Coordinates: 50.234047, 58.280716

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 90 m

bridge scheme - 18x18x18x18x18 [m] total width- 12 m including pedestrian

crossings with width 1 m

pier height- 8,5 m

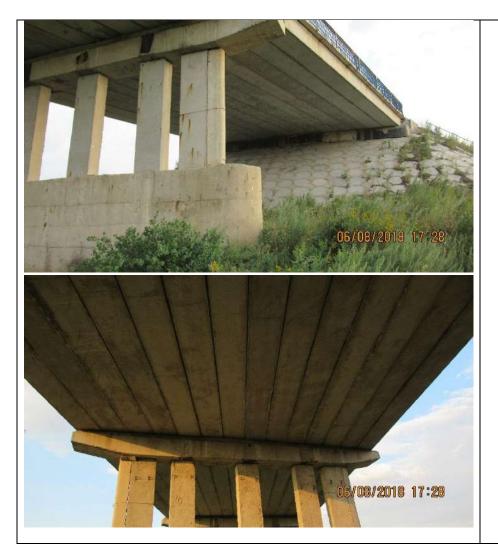
technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe

IMG_0053, IMG_0054, IMG_0055,







M-32 Location:

(nr 317)

50.252346, 58.368603 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 33 m bridge scheme - 33 [m] total width- 10 m including pedestrian

crossings with width 1 m

pier height- 7,5 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe







M-32 /Chromtau Location:

(nr 316)

50.240856, 58.4353 Coordinates:

Archway Obstacles:

Remarks:

archway height h = 6 m

Navigation: Kostanai-Aktobe IMG_0045, IMG_0046



M-32 Location:

(nr 315)

50.193794, 58.56317 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 18 m bridge scheme - 18 [m] total width- 10 m including pedestrian

crossings with width 1 m

pier height- 4 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe









Location: M-32
(nr 314)
Coordinates: 50.184383, 58.691856
Obstacles: Bridge

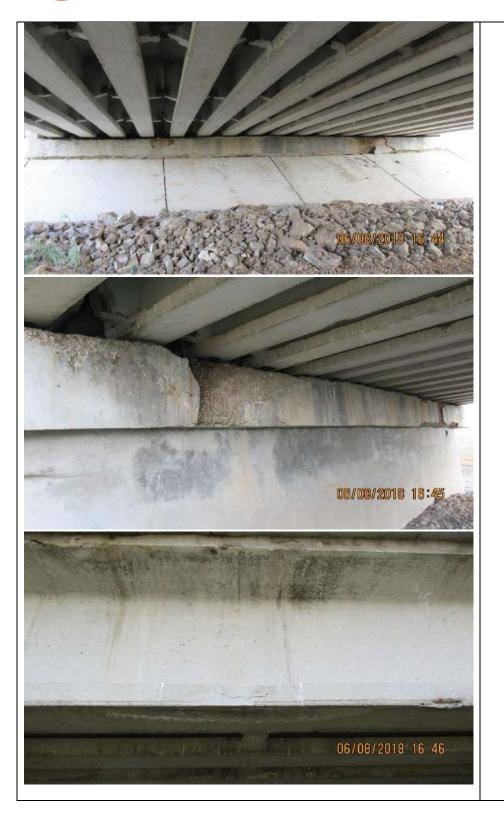
Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 18x18 [m] total width- 12 m including pedestrian crossings with width 1 m pier height- 3 m technical state-cracks on the supports, beams are ok, bypass construction is possible Transportation in a single order along the bridge center line.

Navigation: Kostanai-Aktobe

IMG_0034, IMG_0036, IMG_0037, IMG_0038, IMG_0039, IMG_0042











Location: M-32

(nr 313)

Coordinates: 50.145287, 58.82817

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 24 m

bridge scheme - 6x6x6x6 [m]

total width- 10 m including pedestrian

crossings with width 1 m

pier height- 1,5 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe IMG_0031, IMG_0032



Location: M-32

(nr 312)

Coordinates: 50.13081, 58.887165

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 36 m

bridge scheme - 18x18 [m]

total width- 12 m including pedestrian

crossings with width 1 m

pier height- 2 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe

IMG_0028, IMG_0029, IMG_0030







Location: M-32 / Or iver

Coordinates: 50.12481, 59.086002

Obstacles: Bridge

Remarks:

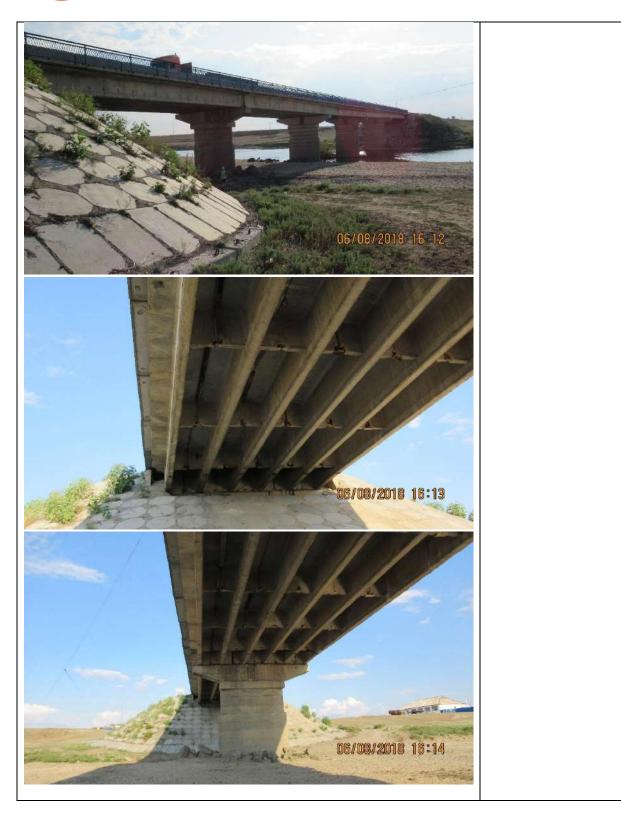
(nr 311)

Bridge technical characteristics: total lenght: - 105 m bridge scheme - 21x21x21x21x21 [m] total width- 8 m including pedestrian crossings with width 1 m pier height- 6,5 m technical state-without visible damage, Transportation in a single order along the bridge center line.

Navigation: Kostanai-Aktobe

IMG_0021, IMG_0022, IMG_0023,









A-22 Location:

(nr 310)

49.97611, 60.02224 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 12 m

bridge scheme - 12 [m] total width- 10 m including pedestrian

crossings with width 1 m

pier height- 3 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe

IMG_0020



A-22 Location:

(nr 309)

49.970722, 60.058414 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 48 m

bridge scheme - 12x12x12x12 [m] total width- 10 m including pedestrian

crossings with width 1 m

pier height- 2,5 m

technical state-without visible damage, Transportation in a single order along the

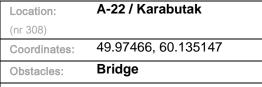
bridge center line.



Navigation: Kostanai-Aktobe IMG_0009, IMG_0016,







Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 6x6x6x6x6x6 [m] total width- 12 m including pedestrian crossings with width 1 m pier height- 2,5 m technical state-cracks on the supports, beams are ok, bypass construction is possible Transportation in a single order along the bridge center line.

Navigation: Kostanai-Aktobe

IMG_9997, IMG_0007, IMG_0006, IMG_0008, IMG_0009



6/08/2018 15:13





Location: A-22 / Araltobe river

(nr 307)

Coordinates: 50.15748, 60.148834

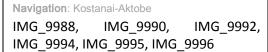
Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 48 m bridge scheme - 6x6x6x6x6x6x6x6x6x6 [m] total width- 10 m including pedestrian crossings with width 1 m pier height- 2,5 m technical state-cracks on the beams Transportation in a single order along the bridge center line.























Location: A-22 / Araltobe river
(nr 306)
Coordinates: 50.17187, 60.148357
Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 45 m bridge scheme - 15x15x15 [m] total width- 9 m including pedestrian crossings with width 1 m pier height- 4 m technical state-long service life, parts of reinforcement are open. Transportation in a single order along the bridge center line.

Navigation: Kostanai-Aktobe

IMG_9977, IMG_9976, IMG_9978, IMG_9980









A22 / Sheder river Location:

(nr 305)

50.289757, 60.154533 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 30 m

bridge scheme - 15x15 [m] total width- 10 m including pedestrian

crossings with width 1 m

pier height- 4 m

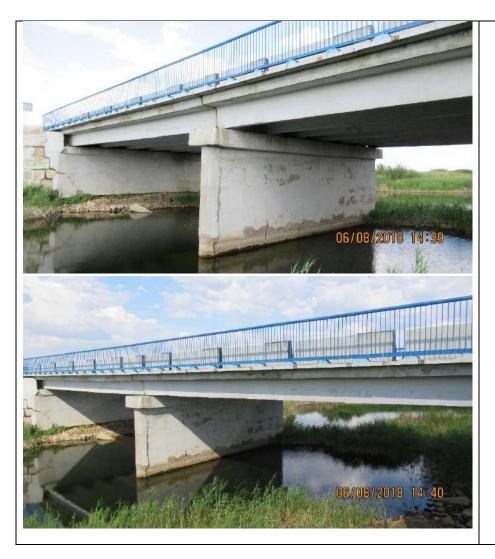
technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe

IMG_9969, IMG_9970, IMG_9973,







Location: A-22

(nr 304)

Coordinates: 50.424923, 60.139336

Obstacles: Railwaycrossing

Remarks:

unmanned level crossing

Navigation: Kostanai-Aktobe





A-22 Location:

(nr 303)

50.423958, 60.53521 Coordinates:

Railwaycrossing Obstacles:

Remarks:

unmanned level crossing

Navigation: Kostanai-Aktobe

IMG_9967



A-22 Location:

(nr 302)

50.414497, 60.629574 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics: total lenght: - 60 m

bridge scheme - 15x15x15x15 [m] total width- 8 m including pedestrian

crossings with width 1 m pier height- 6,5 m

technical state-long service life

Transportation in a single order along the

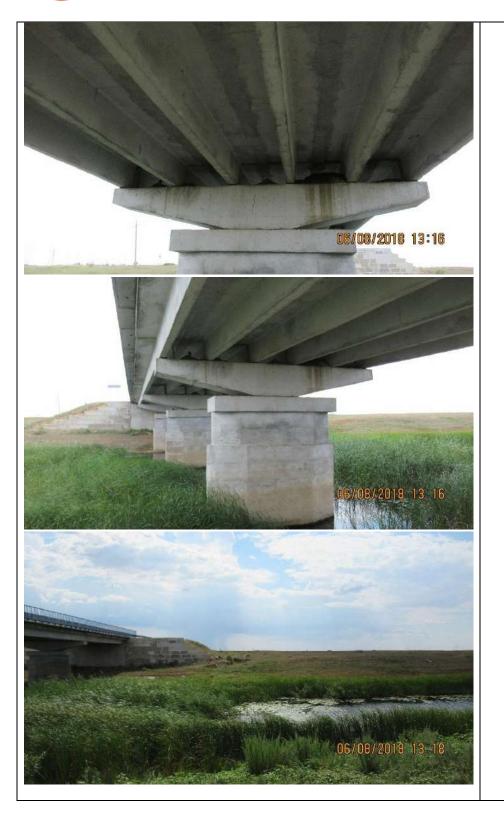
bridge center line.



IMG_9956, IMG_9958, IMG_9959, IMG_9960, IMG_9962, IMG_9964















A-22 Location:

(nr 301)

50.476234, 60.821682 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 42 m

bridge scheme - 12x18x12 [m] total width- 10 m including pedestrian

crossings with width 1 m

pier height- 4,5 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe

IMG_9948, IMG_9949, IMG_9950,







Location: A-22

(nr 300)

Coordinates: 50.570473, 60.906376

Obstacles: Railwaycrossing

Remarks:

unmanned level crossing

Navigation: Kostanai-Aktobe









Location: A-22 / Antonovka
(nr 299)
Coordinates: 52.45989, 61.736706

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 231 m bridge scheme - 33x33x33x33x33x33x33 [m] total width- 12 m including pedestrian crossings with width 1 m

pier height- 17 m technical state-without visible damage, Transportation in a single order along the bridge center line.

Navigation: Kostanai-Aktobe

IMG_9925, IMG_9927, IMG_9928, IMG_9929







Location:	A-22 / Antonovka
(nr 298)	
Coordinates:	52.460903, 61.72901
Obstacles:	Turn

Remarks:

Navigation: Kostanai-Aktobe

IMG_9924



Location:	A-22 / Antonovka
(nr 297)	
Coordinates:	52.485405, 61.774693
Obstacles:	Road

Remarks:

Road under construction

Navigation: Kostanai-Aktobe





A-22 / Pereleski Location:

(nr 296)

52.513863, 62.019028 Coordinates:

PTL Obstacles:

Remarks:

500 kV, height h = 10.5 m

Navigation: Kostanai-Aktobe

IMG_9920







A-22 / Tobol Location:

(nr 294)

52.68422, 62.613388 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 99 m

bridge scheme - 33x33x33 [m]

total width- 12 m including pedestrian

crossings with width 1 m

pier height- 7 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe

IMG_9890, IMG_9893, IMG_9894









A-22 / Tobol Location:

(nr 292)

52.685925, 62.614437 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 15 m

bridge scheme - 15 [m] total width- 12 m including pedestrian

crossings with width 1 m

pier height- 5,5 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Kostanai-Aktobe

IMG_9888, IMG_9889







Location: A-22 /Ayat river
(nr 291)
Coordinates: 52.862305, 62.81607
Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 189 m bridge scheme - 21x21x21x21x21x21x21x21x21x21 [m] total width- 12 m including pedestrian crossings with width 1 m pier height- 6 m technical state-without visible damage, Transportation in a single order along the bridge center line.

Navigation: Kostanai-Aktobe

IMG_9882, IMG_9885, IMG_9884,

06/08/2018 08:26





Location: A-22

(nr 290)

Coordinates: 52.878807, 62.857246

Obstacles: Railwaycrossing

Remarks:

level crossing, archway = 6,2 m,

reinforcement needed

Navigation: Kostanai-Aktobe

IMG_9879



Location: A-22 / Rudny

(nr 289)

Coordinates: 52.942432, 63.039803

Obstacles: PTL

Remarks:

500 kV, height h = 10.2 m

Navigation: Kostanai-Aktobe

IMG_9876



Location: A-22 / Rudny

(nr 288)

Coordinates: 50,506440; 64,984131

Obstacles: Archway

Remarks:

7 units, h=6,5-7 m

Navigation: Kostanai-Aktobe





Location: R 278

(nr 287)

Coordinates: 52.981186, 63.227142

Obstacles: Bridge / highway over

crossing

Remarks:

driving on the oncoming traffic lane

Navigation: Kostanai-Aktobe

IMG_9847





Location: Kostanai /Tobol river

(nr 286)

Coordinates: 52.96514, 63.2359

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 264 m bridge scheme -

24x24x24x24x24x24x24x24x24x24x24

[m]

total width- 12 m including pedestrian

crossings with width 1 m

pier height- 7,5 m

technical state-long service life

Transportation in a single order along the bridge center line.

Navigation: Kostanai-Aktobe

IMG_9849, IMG_9856, IMG_9851,







Location: Kostanai

(nr 285)

Coordinates: 52.962326, 63.23736

Obstacles: Turn

Remarks:

trees cut and widening of right corner

Navigation: Kostanai-Aktobe





Location:	P-38 / Kostanai
(nr 284)	
Coordinates:	53.161316, 63.65983
Obstacles:	Bridge / highway over
	crossing
Remarks:	

driving on the oncoming traffic lane 900 m

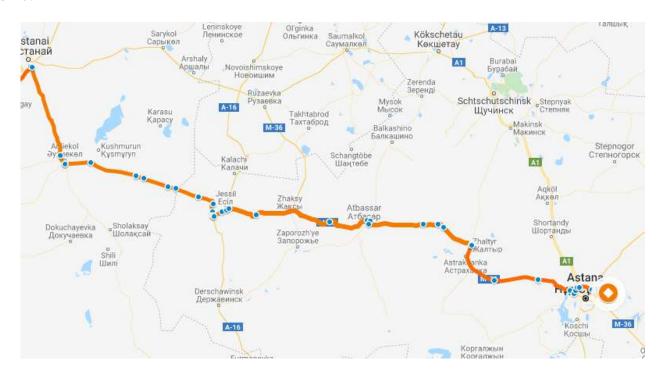
Navigation: Kostanai-Aktobe

IMG_9866

Route: Kostanay - Astana

769 km Distance:

Heavy lift, Blades, General Cargo type:







Location: R-265 / Kostanai

(nr 282)

Coordinates: 53.155308, 63.67632

Obstacles: Archway

Remarks:

archway height h = 7.3 m

Navigation: Atbassar-Kostanai

IMG_9683



Location: R-265

(nr 281)

Coordinates: 52.40497, 64.07577

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 72 m

bridge scheme - 12x24x24x12 [m]

total width- 12 m including pedestrian

crossings with width 1 m

pier height- 7,5 m

technical state-without visible damage,

Transportation in a single order along the

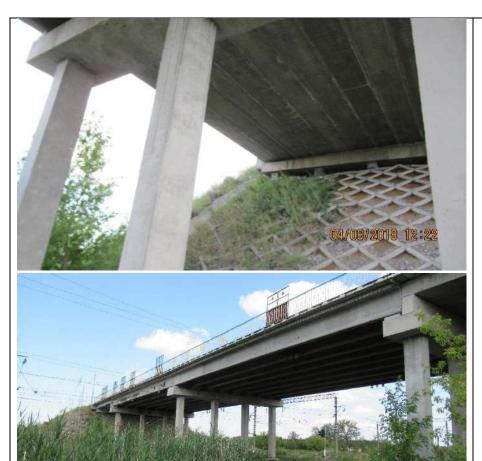
bridge center line.

Navigation: Atbassar-Kostanai

IMG_9681, IMG_9679, IMG_9677,









Location: R-265

(nr 281)

04/08/2018 12:23

Coordinates: 52.40497, 64.07577

Obstacles: Bridge

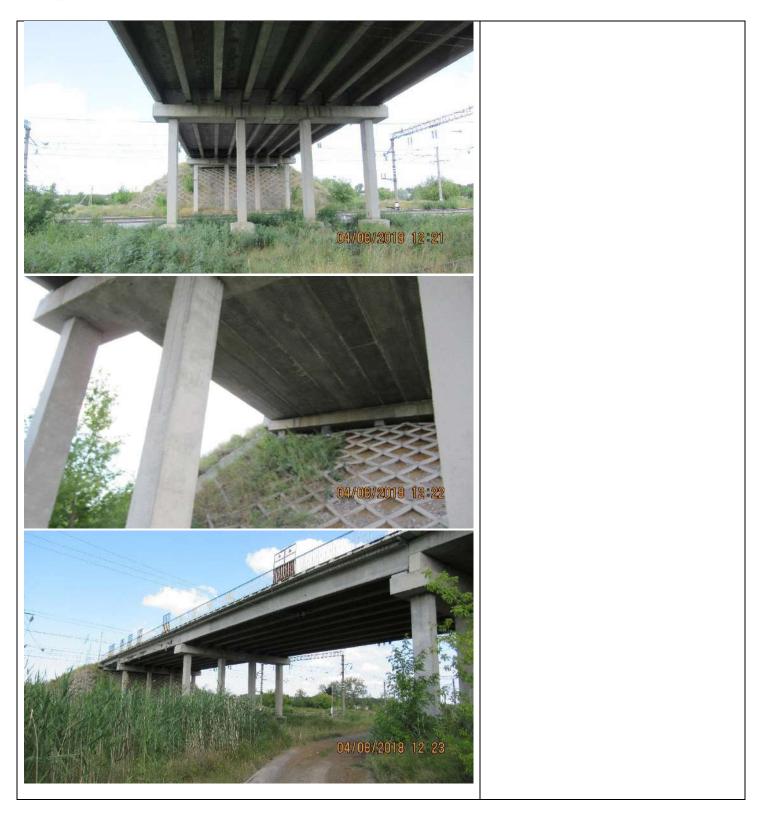
Remarks:

Bridge technical characteristics: total lenght: - 72 m bridge scheme - 12x24x24x12 [m] total width- 12 m including pedestrian crossings with width 1 m pier height- 7,5 m technical state-without visible damage, Transportation in a single order along the bridge center line.

Navigation: Atbassar-Kostanai

IMG_9681, IMG_9679, IMG_9677,









Location: R-263 / R-265 (nr 280)

Coordinates: 52.33082, 64.14186

Obstacles: Turn

Remarks:

ok

Navigation: Atbassar-Kostanai

IMG_9672





Location: R-263 / Ashibai river

(nr 279)

Coordinates: 52.33178, 64.14017

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 504 m

bridge scheme - 18x18x18 [m] total width- 8 m including pedestrian

crossings with width 1 m

pier height- 6 m

technical state- long service life, without visible damage, bypass construction is

possible

Transportation in a single order along the

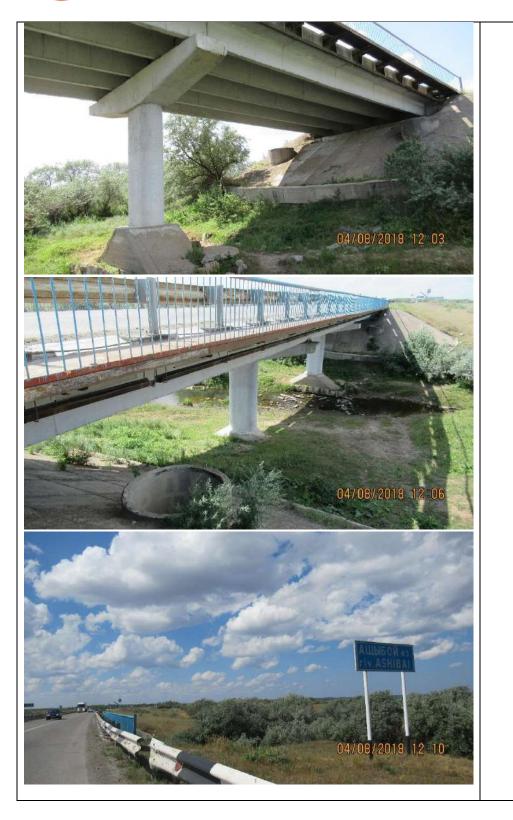
bridge center line.

Navigation: Atbassar-Kostanai

IMG_9674, IMG_9662, IMG_9667,

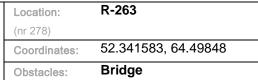
IMG_9665, IMG_9669











Remarks:

Bridge technical characteristics: total lenght: - 105 m bridge scheme - 21x21x21x21x21 [m] total width- 9 m including pedestrian crossings with width 1 m pier height- 4,3 m technical state-without visible damage, Transportation in a single order along the bridge center line.



Navigation: Atbassar-Kostanai

IMG_9656, IMG_9658, IMG_9659, IMG_9661











Location: R-263 (nr 277)

Coordinates: 52.227325, 65.14112

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 90 m bridge scheme - 18x18x18x18x18 [m] total width- 12 m including pedestrian crossings with width 1 m pier height- 3 m technical state-without visible damage, Transportation in a single order along the bridge center line.

Navigation: Atbassar-Kostanai

IMG_9654, IMG_9653







R-263 Location:

(nr 276)

52.20562, 65.24818 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 36 m

bridge scheme - 12x12x12 [m] total width- 10 m including pedestrian

crossings with width 1 m

pier height- 3,7 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Atbassar-Kostanai IMG_9647, IMG_9649



R-263 Location:

(nr 275)

52.135883, 65.58961 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 18 m

bridge scheme - 6x6x6 [m]

total width- 10 m including pedestrian

crossings with width 1 m

pier height- 4 m

technical state- without visible damage,

reinforcement with metal plates

necessary

Transportation in a single order along the bridge center line.





Navigation: Atbassar-Kostanai IMG_9644, IMG_9643





Remarks:

Bridge technical characteristics: total lenght: - 45 m bridge scheme - 15x15x15 [m] total width- 10 m including pedestrian crossings with width 1 m pier height- 5,5 m technical state-very long service life, cracks on the supports and beams, need reinforcement or bypass Transportation in a single order along the bridge center line.

Navigation: Atbassar-Kostanai

IMG_9633, IMG_9631, IMG_9635, IMG_9638, IMG_9639, IMG_9641













Location: R-263 / Kovylnoe-2
(nr 273)

Coordinates: 52.04245, 66.020996

Obstacles: Bridge

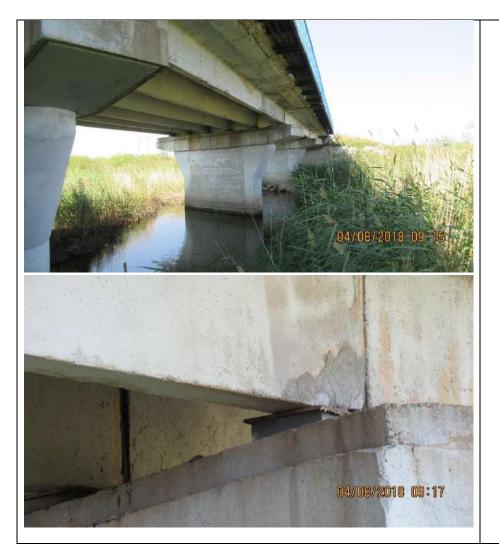
Remarks:

Bridge technical characteristics: total lenght: - 60 m bridge scheme - 15x15x15x15 [m] total width- 10 m including pedestrian crossings with width 1 m pier height- 4,5 m technical state-very long service life, cracks on the supports and beams, parts of reinforcement are open, need reinforcement or bypass Transportation in a single order along the bridge center line.

Navigation: Atbassar-Kostanai

IMG_9620, IMG_9623, IMG_9625, IMG_9626







Location: R-263 /Busuluk

(nr 272)

Coordinates: 51.985554, 66.22039

Obstacles: PTL

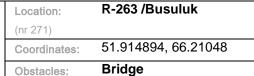
Remarks:

220 kV, height h = 7.6

Navigation: Atbassar-Kostanai







Remarks:

Bridge technical characteristics: total lenght: - 36 m bridge scheme - 12x12x12 [m] total width- 10 m including pedestrian crossings with width 1 m pier height- 3,7 m technical state-without visible damage, Transportation in a single order along the bridge center line.





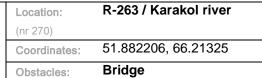


Navigation: Atbassar-Kostanai

IMG_9610, IMG_9613, IMG_9615







Remarks:

Bridge technical characteristics: total lenght: - 75 m bridge scheme - 15x15x15x15x15 [m] total width- 10 m including pedestrian crossings with width 1 m pier height- 8 m technical state-without visible damage, Transportation in a single order along the bridge center line.



Navigation: Atbassar-Kostanai

IMG_9603, IMG_9607, IMG_9608







Location: A-16/ R-263

(nr 269)

Coordinates: 51.873676, 66.22418

Obstacles: Turn

Remarks:

removing of traffic signs

Navigation: Atbassar-Kostanai

IMG_9602



Location: A-16 / Esil river

(nr 268)

Coordinates: 51.8787, 66.240326

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 241 m bridge scheme - 9x33x33x33x31x31x31x31x9 [m] total width- 7 m including pedestrian crossings with width 1 m pier height- 10 m technical state-very long service life, investigations are necessary, ,crack on the support and metal reinforcement, brackets on two supports each 15 m Transportation in a single order along the

Navigation: Atbassar-Kostanai

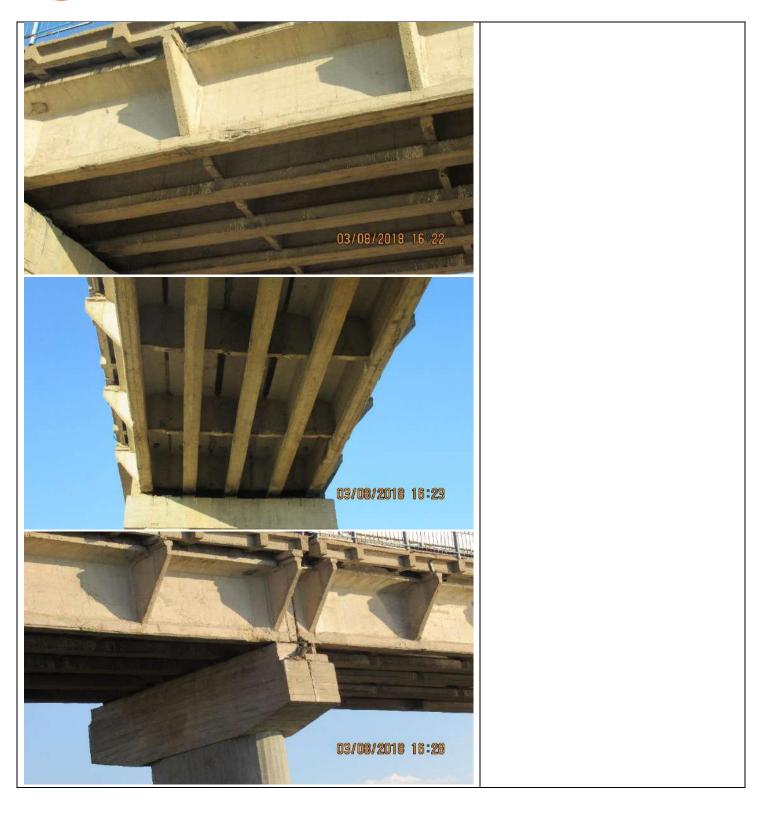
bridge center line.

IMG_9571, IMG_9574, IMG_9576, IMG_9579, IMG_9584, IMG_9585, IMG_9589, IMG_9590, IMG_9592,

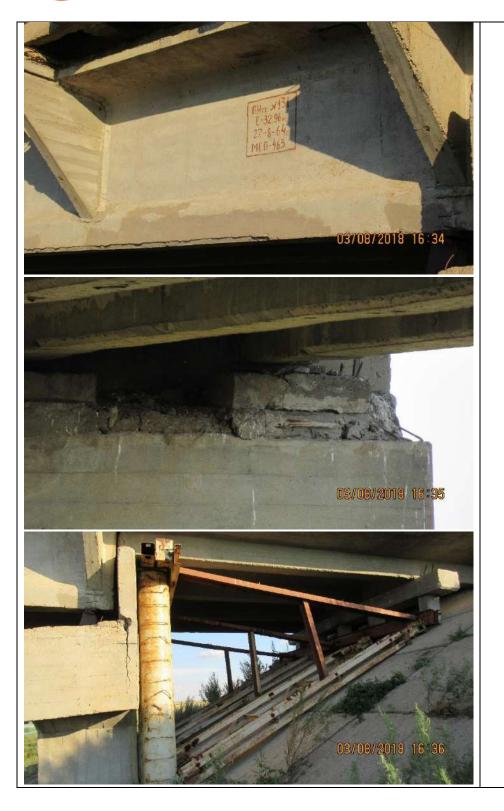
IMG_9599

03/08/2018 16:21















Location: A-16 / Aksay

(nr 267)

Coordinates: 51.914417, 66.350006

Obstacles: Railwaycrossing

Remarks:

unmanned level crossing

Navigation: Atbassar-Kostanai





Location: A-16 / Essil

(nr 266)

Coordinates: 51.933258, 66.41483

Obstacles: PTL

Remarks:

110 kV, height h = 7 m

Navigation: Atbassar-Kostanai

IMG_9569



Location: A-16 / Essil

(nr 265)

Coordinates: 51.94746, 66.44608

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 60 m bridge scheme - 18x24x18 [m] total width- 10 m including pedestrian crossings with width 1 m pier height- 8 m technical state-without visible damage,

Transportation in a single order along the bridge center line.

Navigation: Atbassar-Kostanai

IMG_9564, IMG_9566, IMG_9568











Location: R-262 /Krasiviye
(nr 264)
Coordinates: 51.888123, 66.8352

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 57 m bridge scheme - 18x21x18 [m] total width- 10 m including pedestrian crossings with width 1 m pier height- 5,6 m technical state-without visible damage, Transportation in a single order along the bridge center line.

Navigation: Atbassar-Kostanai

IMG_9556, IMG_9559, IMG_9562









Location: M-36 / Perekatnoe
(nr 263)
Coordinates: 51.83096, 67.862274
Obstacles: Bridge

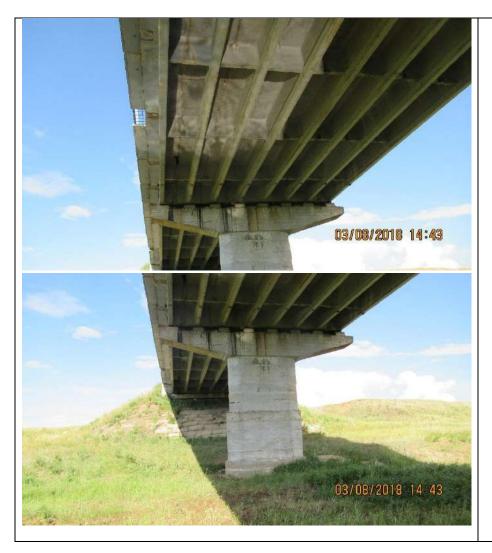
Remarks:

Bridge technical characteristics: total lenght: - 96 m bridge scheme - 24x24x24x24 [m] total width- 10 m including pedestrian crossings with width 1 m pier height- 8,5 m technical state- long service life, investigations are necessary, bypass construction is difficult Transportation in a single order along the bridge center line.

Navigation: Atbassar-Kostanai

IMG_9548, IMG_9550, IMG_9554, IMG_9555







Location: M-36 / Atbassar/ Zhabay (nr 262) river

Coordinates: 51.84193, 68.38517

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 165 m bridge scheme - 33x33x33x33x33 [m] total width- 12 m including pedestrian crossings with width 1,5 m pier height- 7,6 m technical state-without visible damage, Transportation in a single order along the bridge center line.

Navigation: Atbassar-Kostanai

IMG_9539, IMG_9542, IMG_9544,









M-36 / Atbassar Location: (nr 261) 51.83296, 68.4344

Coordinates:

Turn Obstacles:

Remarks: ok

Navigation: Astana-Atbassar

IMG_9534



M-36 / Atbassar Location: (nr 260) 51.807602, 68.409035 Coordinates: Turn Obstacles: Remarks: ok

Navigation: Astana-Atbassar

IMG_9532



M-36 / Marinovka Location: (nr 259)

51.80627, 69.18063 Coordinates:

PTL Obstacles:

Remarks:

500 kV, height h = 8.7, to deep, bypass on the right side

Navigation: Astana-Atbassar IMG_9526, IMG_9528







Location: M-36 / Koskol (nr 258)

Coordinates: 51.80711, 69.38614

Obstacles: PTL

Remarks:

220 kV, height h = 6.8 m, to deep, bypass on the right side

Navigation: Astana-Atbassar

IMG_9523



Location: M-36 / Ishim river
(nr 257)

Coordinates: 51.783886, 69.468155

Obstacles: Bridge

Remarks





Navigation: Astana-Atbassar IMG_9514, IMG_9518, IMG_9520



Location: M-36 / Dzhaltyr
(nr 256)

Coordinates: 51.634422, 69.85776

Obstacles: PTL

Remarks:
500 kV, height h = 8 m, to deep, bypass on the right side

Navigation: Astana-Atbassar





Location: M-36 / Dzhaltyr

(nr 254)

Coordinates: 51.632843, 69.86878

Obstacles: Traffic circle

Remarks:

driving on the oncoming traffic lane

Navigation: Astana-Atbassar

IMG_9503



Location: M-36 / Dzhaltyr

(nr 253)

Coordinates: 51.62667, 69.866776

Obstacles: Archway

Remarks:

archway height h = 6 m

Navigation: Astana-Atbassar

IMG_9502

Location: M-36 / Dzhaltyr

(nr 252)

Coordinates: 51.6241, 69.86545

Obstacles: Bridge

Remarks:

Bridge technical characteristics:

total lenght: - 69 m

bridge scheme - 21x24x24 [m]

total width- 12 m including pedestrian

crossings with width 1 m

pier height- 8 m

technical state-without visible damage, Transportation in a single order along the

bridge center line.





Navigation: Astana-Atbassar IMG_9499, IMG_9501





Location:	M-36
(nr 251)	
Coordinates:	51.320034, 70.18167
Obstacles:	Bridge
Remarks:	
Bridge technical characteristics: total lenght: - 54 m	
bridge scheme - 18x18x18 [m]	
total width- 12 m including pedestrian	
crossings with width 1 m	
pier height- 3,7 m	
technical state- long service life of the	
center supports	
Transportation in a single order along the	
bridge center line.	





Navigation: Astana-Atbassar

IMG_9495, IMG_9496, IMG_9497



Location: M-36 / Sraritsa river

Coordinates: 51.324566, 70.80061

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 48 m bridge scheme - 15x18x15 [m] total width- 10 m including pedestrian crossings with width 1 m pier height- 3,5 m technical state-without visible damage, Transportation in a single order along the bridge center line.

Navigation: Astana-Atbassar

IMG_9487, IMG_9488, IMG_9490







Location: M-36

(nr 249)

Coordinates: 51.224274, 71.25102

Obstacles: Archway

Remarks:

archway height h = 6,1 m

Navigation: Astana





Location: R-10 / M-36

(nr 248)

Coordinates: 51.20303, 71.30247

Obstacles: Turn

Remarks:

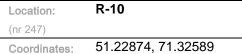
removing of the railings part on the left

side

Navigation: Astana

IMG_9485





Coordinates: 31.22074, 71.3230

Obstacles: Bridge

Remarks:

Bridge technical characteristics: total lenght: - 129 m bridge scheme - 21x24x21x21x21x21[m] total width- 24 m including pedestrian crossings with width 1 m pier height- 13,5 m technical state-without visible damage, Transportation in a single order along the

bridge center line.

Navigation: Astana

IMG_9470, IMG_9471, IMG_9475











R-10 Location:

(nr 246)

51.251865, 71.34997 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics:

total lenght: - 57 m

bridge scheme - 18x21x18 [m] total width- 24 m including pedestrian

crossings with width 1 m

pier height- 7,4 m

technical state-cracks on the supports and beams, parts of reinforcement are

open

Transportation in a single order along the bridge center line.

Navigation: Astana

IMG_9460, IMG_9461, IMG_9464,







Location: R-10

(nr 245)

Coordinates: 51.255913, 71.374016

Obstacles: Bridge / highway over crossing

Remarks: archway height left side h1 = 5,3 m, right

Navigation: Astana IMG_9458

side h2 = 4.7 m





R-10 Location: (nr 244)

51.23344, 71.55436 Coordinates:

Bridge / highway over Obstacles: crossing

Remarks:

archway height h1 = 5,1 m, h2 = 5,2 m

Navigation: Astana IMG_9454



R-10 Location: (nr 243)

51.199226, 71.573105 Coordinates:

Bridge Obstacles:

Remarks:

Bridge technical characteristics: total lenght: - 63 m bridge scheme - 21x21x21 [m] total width- 12 m including pedestrian crossings with width 1 m pier height- 4 m

technical state-without visible damage, Transportation in a single order along the bridge center line.



Navigation: Astana

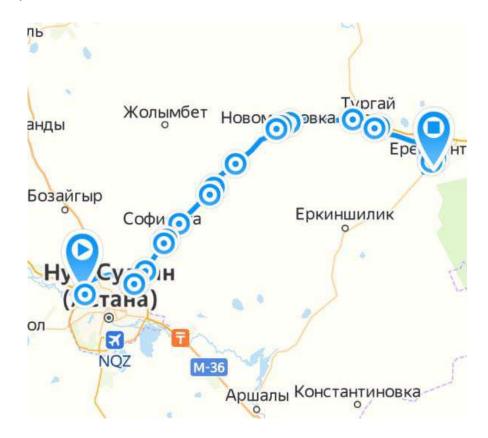
IMG_9448, IMG_9450



Route: Astana - Erementau

Distance: 769 km

Cargo type: Heavy lift, Blades, General







Location: (nr 244)

Coordinates:

Obstacles: Turn to right / road surface

Remarks:

Road leveling, turn must be expanded to right side



Location: (nr 244)

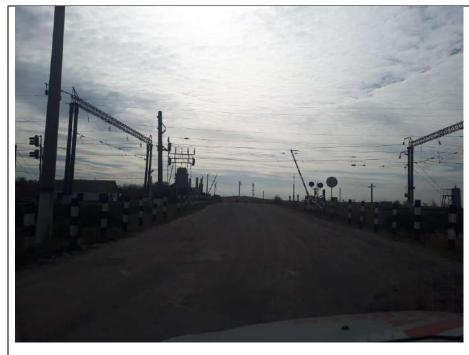
Coordinates:

Obstacles: Turn to right

Remarks:

turn must be expanded on left side,





Location: (nr 244)

Coordinates:

Obstacles: Railway + road gradient

increase

Remarks:

Road leveling, PTL lifting



Location: (nr 244)

Coordinates:

Obstacles: Railway + road gradient

increase

Remarks:

Road leveling, PTL lifting





Location:

(nr 244) Coordinates:

Obstacles:

Railway + road gradient

increase

Remarks:

Road leveling, PTL lifting Dismantling of 2 roadsigns and 3 road posts, bushes cutting









Location: (nr 244)

Coordinates:

road gradient increase Obstacles:

Remarks:

Geodesi required

