



REPUBLIC OF TURKEY

BRIDGE PROJECTS



Bridge Design & Engineering Services



About Us

We don't just design bridges; we create engineering benchmarks that stand as testaments to innovation, precision, and excellence. With a legacy spanning three decades, we have emerged as leaders in the field of bridge engineering, driven by an unwavering commitment to pushing boundaries and exceeding expectations.

Our Approach

Our passion for bridge structures is matched only by our dedication to integrating cutting-edge designs and the latest technologies with our vast reservoir of experience and expertise. We provide comprehensive multi-disciplinary engineering consultancy services that encompass every facet of bridge engineering, construction processes, and project management.

30 Years of Excellence

With a rich portfolio spanning over 30 years, WIECON has been at the forefront of bridge engineering projects. Our in-house team of experts offers a diverse range of design services, including precast segmental, full-span erection, balanced cantilever, advanced shoring, incrementally launched, cable stay, suspension, and other specialized bridges. We handle projects from the initial preliminary studies and detailed design stages to the design of bridge construction equipment, major temporary works, and the supervision of the final erection stages.



Design & Engineering Services



Client:

Kolin Construction

Services:

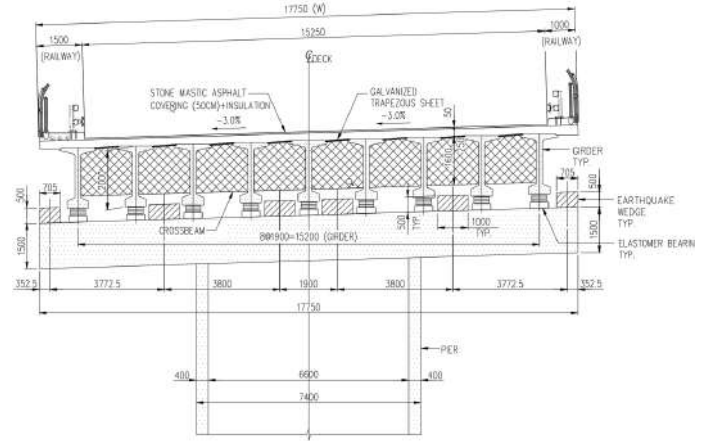
- Detail Design
- Construction Engineering
- Contractors Engineer

Specifications:

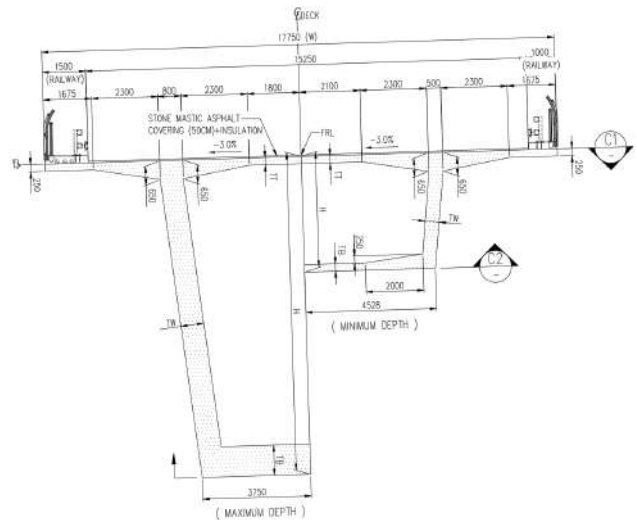
- Free Cantilever Main Bridge
- Precast I Beams Approach Bridges
- Total Bridge Length: 644.8m
- Span Configuration:
43.9m+45.3m+45.3m+45.3m+100m+1
85m+100m+40m+40m
- Deck Width: 17.75m
- Deck Depth (FCC Bridge): 4m~11m
- Deck Depth: (I Beams): 2.3m

Project Duration:

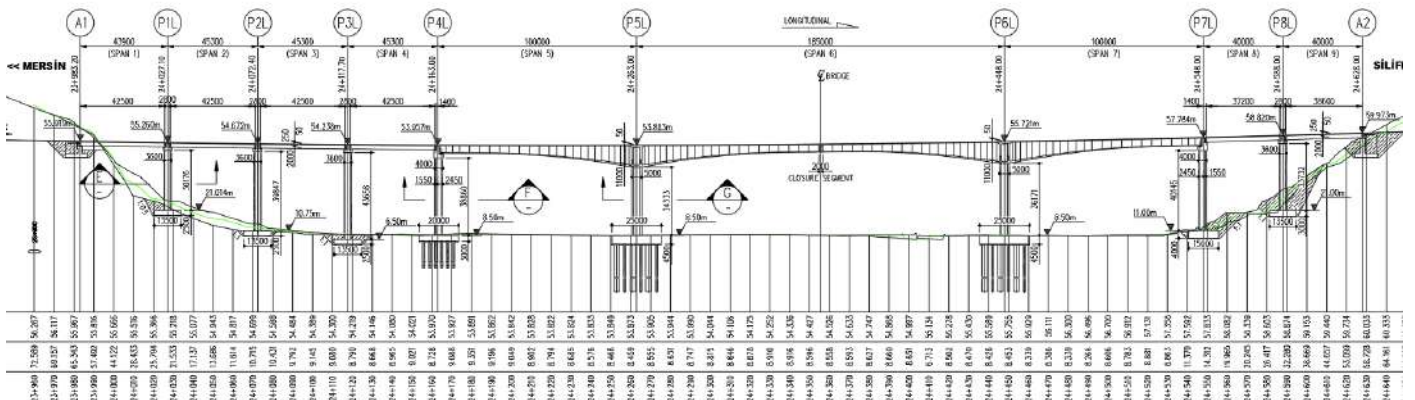
2024-2029



Typical Section I Beam Approach Bridges



Typical Deck Section FCC Bridge



Bridge Elevation

Sazlidere Cable Stay Bridge.

Client:

Ronesans Construction

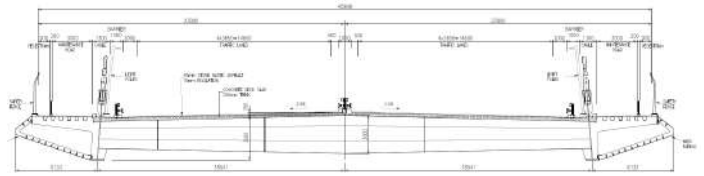
Services:

- Construction Engineering
- Contractors Engineer
- Detail Design
- Shop Drawings
- Contractors Engineer
- Major Temporary Works Design

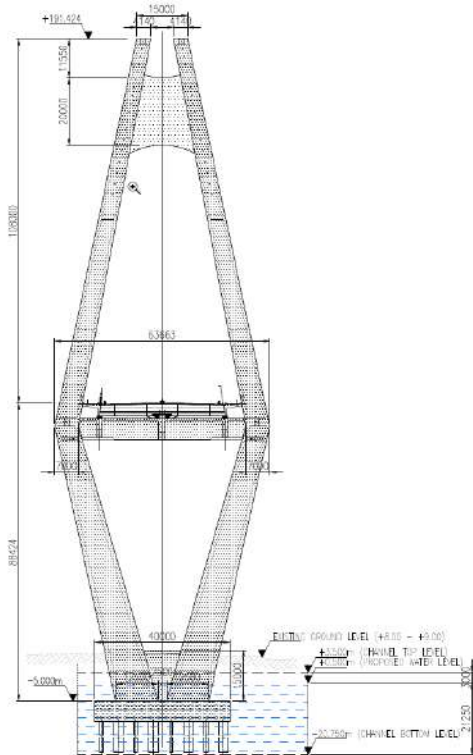
Specifications:

- Total Bridge Length: 860m
- Span Configuration: 210m+440m+210m
- Deck Width: 46m
- 8 Lanes of Traffic
- Pylon Height: 108m (From Deck Level)

Project Duration: 2021-HOLD Resume 2024



Typical Deck Section



Typical Section at Pylons



Sazlidere Cable Stay Bridge, Approach Viaducts.

Client:

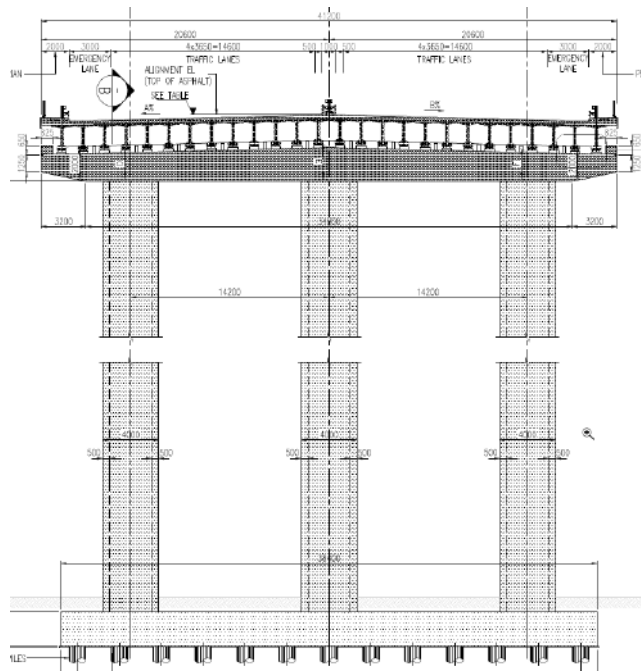
Ronesans Construction

Services:

- Construction Engineering
- Detail Design
- Shop Drawings
- Contractors Engineer

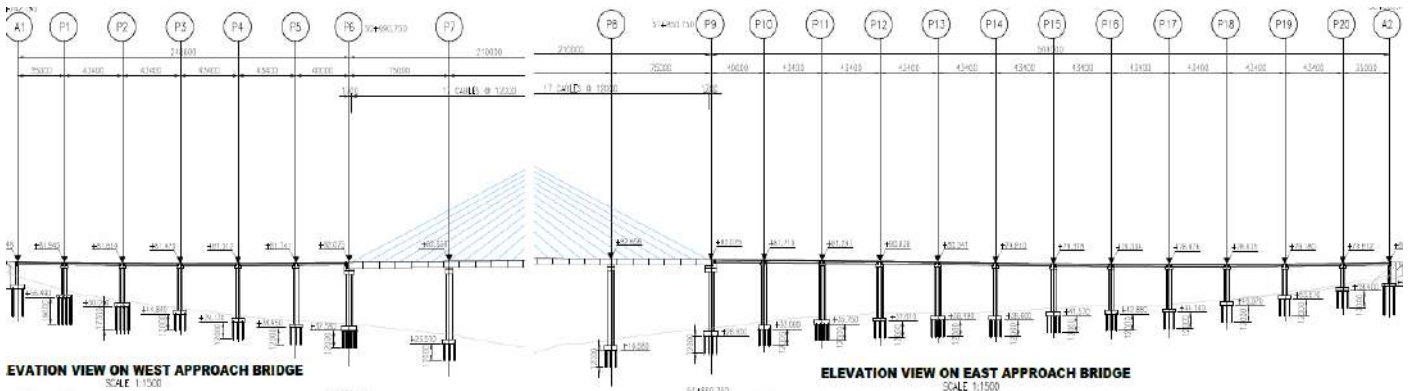
Specifications:

- **West Approach Bridge A1-P6**
- Total Bridge Length: 249m
- Span Configuration: 35m+43.5*4m+40m
- **East Approach Bridge P9-A2**
- Total Bridge Length: 510m
- Span Configuration: 40m+43.5m*10+35m
- Deck Width: 41.2m
- Precast I Beam Construction Method



Typical Pier / Deck Section

Project Duration: 2021-2025



West Approach Bridge

East Approach Bridge

Ormankoy-Akyazi-Dokurcun FCC Bridge Viaduct 1.

Client:

Maykyol Construction

Services:

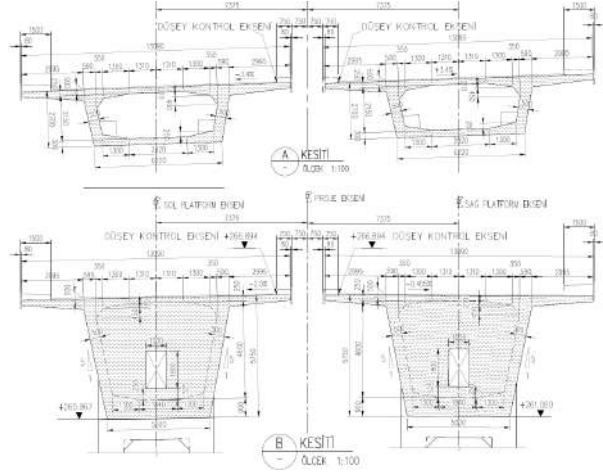
- Detail Design

Specifications:

- Free Cantilever Construction Method
- Total Bridge Length: 240m
- Span Configuration: 69m+102m+69m
- Deck Width: 13m

Project Duration:

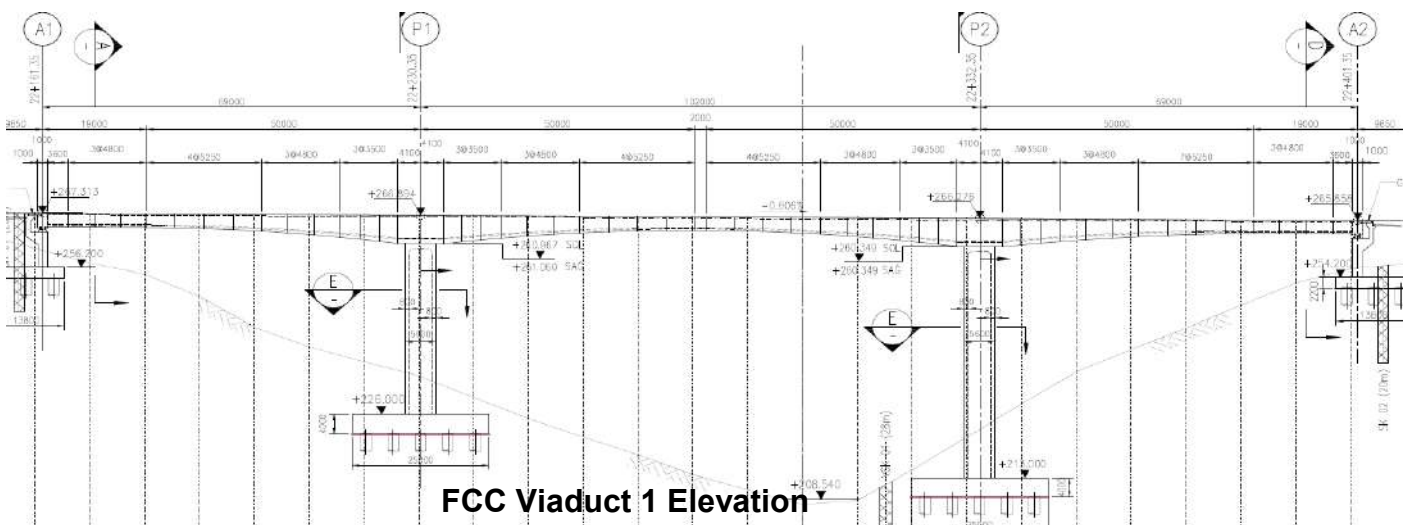
2022-2023



Typical Deck Sections



Typical FCC Deck Form Traveler



FCC Viaduct 1 Elevation

Ormankoy-Akyazi-Dokurcun FCC Bridge Viaduct 2.

Client:

Maykyol Construction

Services:

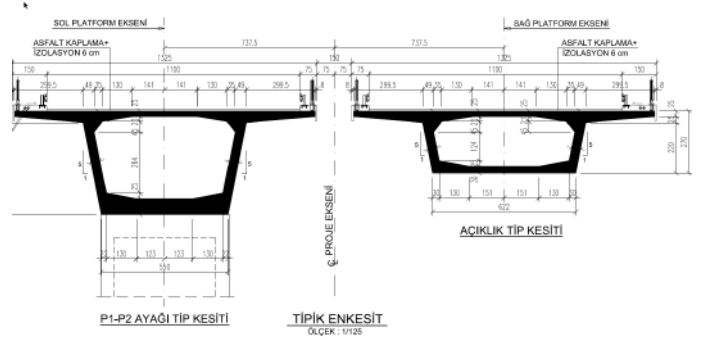
- Construction Engineering

Specifications:

- Free Cantilever Construction Method
- Total Bridge Length: 160m
- Span Configuration: 45m+70m+45m
- Deck Width: 13.25m

Project Duration:

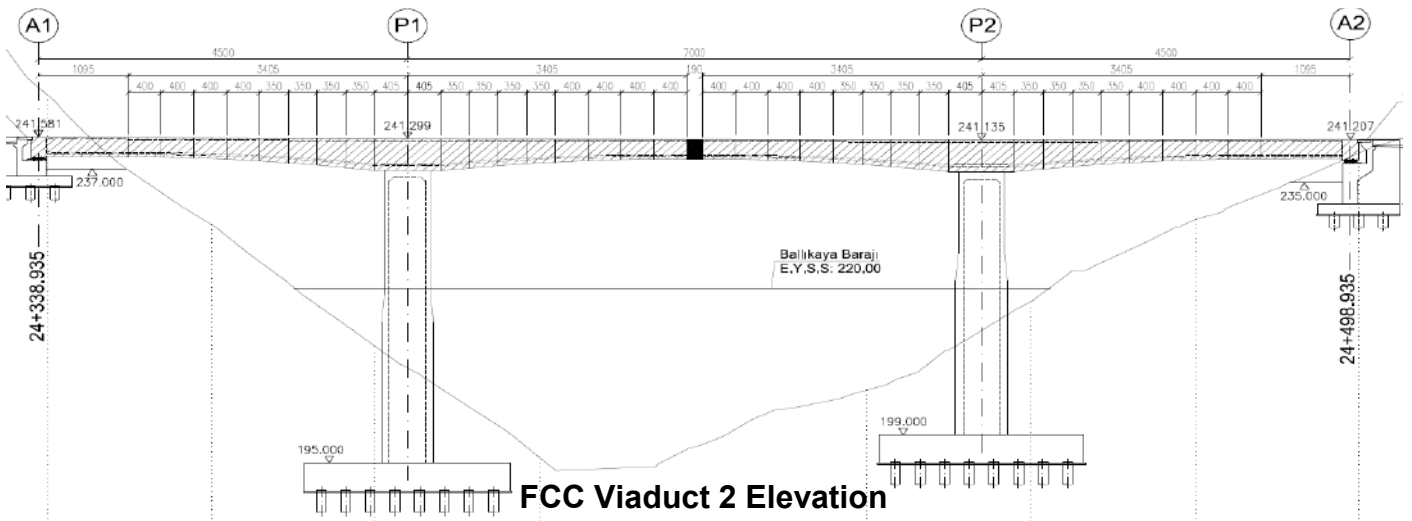
2022-2023



Typical Deck Sections



Typical FCC Deck Form Traveler



Ormankoy-Akyazi-Dokurcun FCC Bridge Viaduct 3.

Client:

Maykyol Construction

Services:

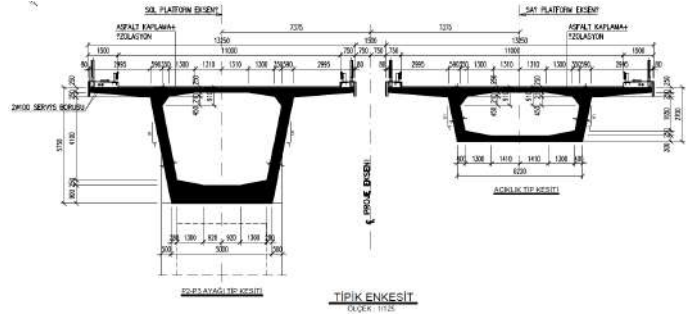
- Construction Engineering
- Contractors Engineer

Specifications:

- Free Cantilever Construction Method
- Total Bridge Length: 440m
- Span Configuration:
67m+102m+102m+102m+67m
- Deck Width: 13.25m

Project Duration:

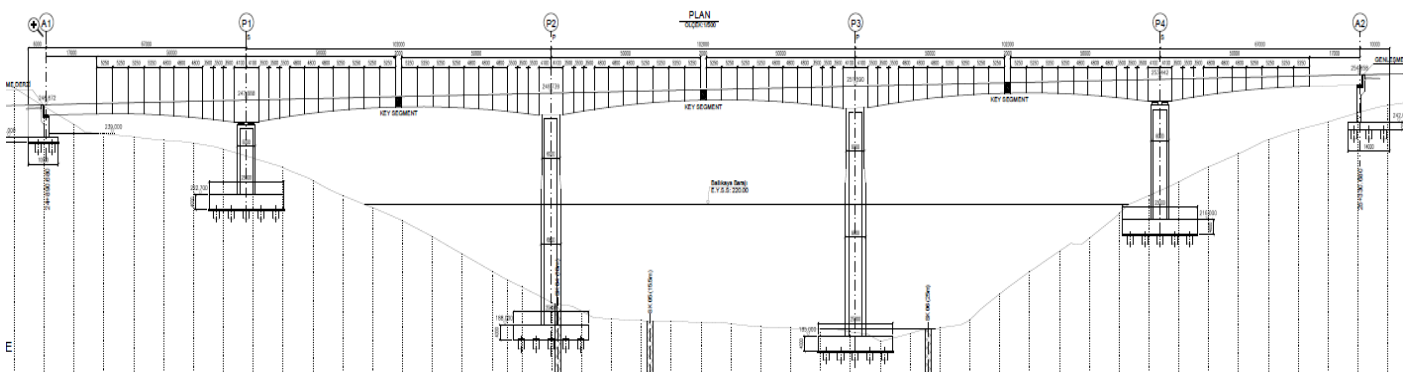
2022-2023



Typical Deck Sections



Typical FCC Deck Form Traveler



FCC Viaduct 3 Elevation

Alibeykoy FCC Bridge, North Mamara Motorway.

Client:

Kolin Construction

Services:

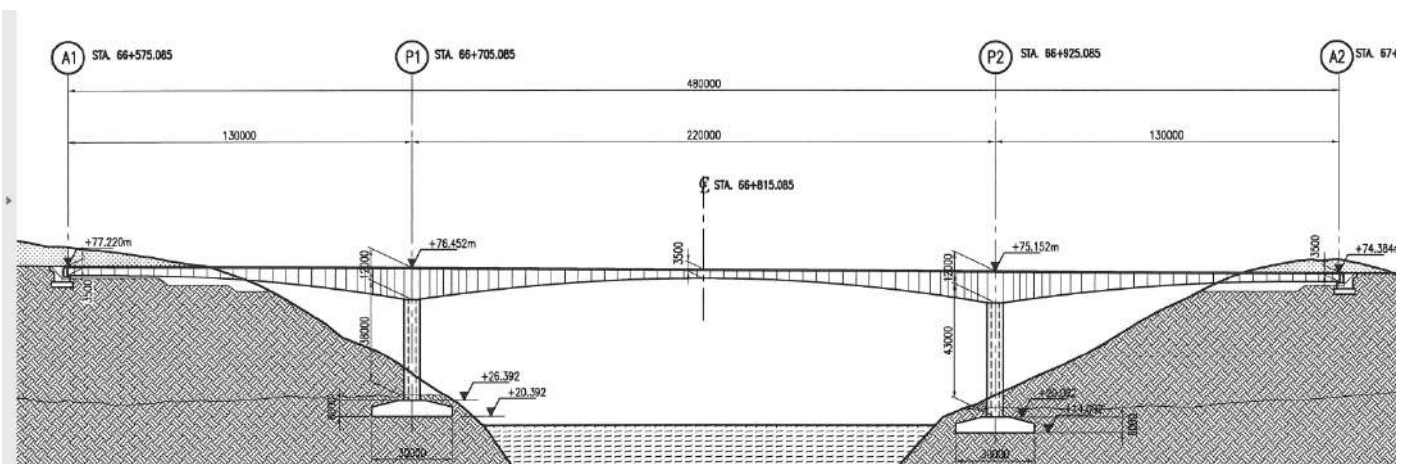
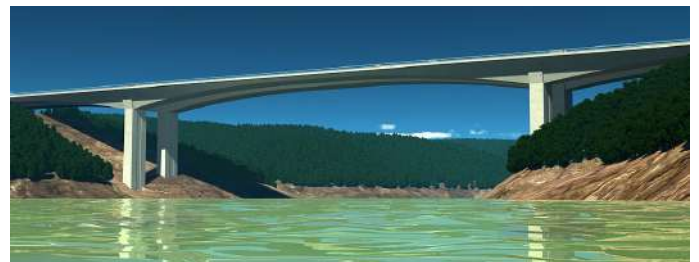
- Detail Design

Specifications:

- Free Cantilever Construction Method
- Total Bridge Length: 480m
- Span Configuration:
130m+220m+130m
- Deck Width: 19.8

Project Duration:

2019



Bridge Elevation

Cayirkoy Kuzey Mamara ILM Bridge.



Client:

Kolin Construction

Services:

- Construction Engineering
- Detail Design
- Shop Drawings
- Contractors Engineer

Specifications:

- Incremental Launching Bridge
- Two Bridges Running Parallel
- Total Bridge Length: 748m (Each Bridge)
- Span Configuration:
44m+55m*12+44m (Each Bridge)
- Deck Width: 21.5m (Each Bridge)
- Total Length for Both Bridges: 1.496km

Project Duration:

2016-2019



Viaduct V07 Liman Bridge FCC Section, North Mamara.



Client:

MegaYapi: FCC Bridge Section

Services:

- Construction Engineering
- Detail Design
- Shop Drawings
- Contractors Engineer

Specifications:

- FCC Free Cantilever Bridge Section
- Total Bridge Length: 380m
- Span Configuration:
100m+180m+100m
- Max Deck Width: 25.2m*2 (Two Deck)
- Total Deck Width: 50.4m
- Min Deck Width: 17.7m*2 (Two Decks)
- Total Deck Width: 35.4m
- Max Pier Height: 124.3m

Project Duration: 2016-2019



Viaduct V07 Liman Bridge Precast Section, North Mamara.



Client:

Limak: Precast I Girder Section

Services:

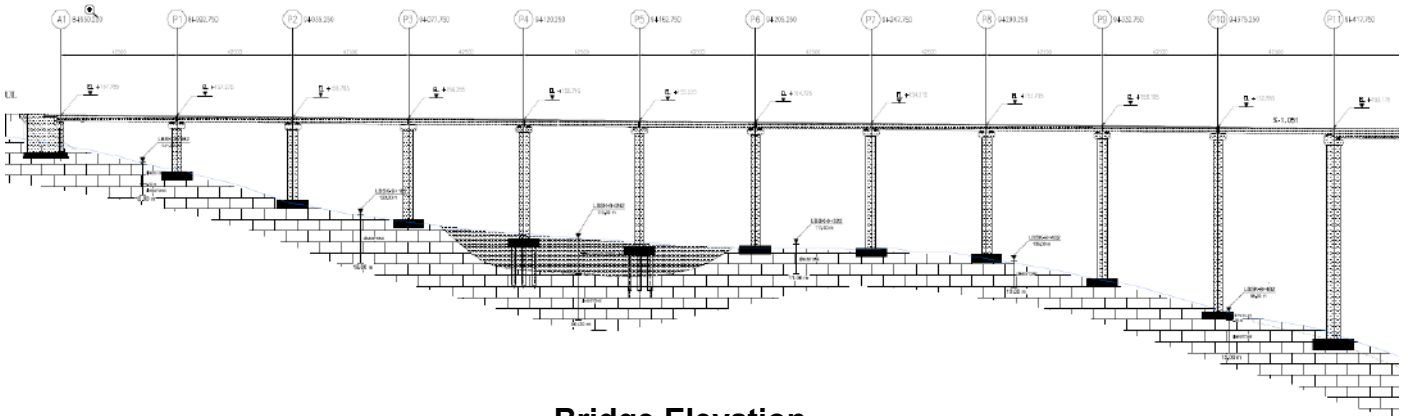
- Construction Engineering
- Detail Design
- Shop Drawings
- Contractors Engineer

Specifications:

- **Precast I Girder Section**
- Total Bridge Length: 467.5m
- Span Configuration: 42.5m x 11
- Deck Width: 17.7m*2 (Two Decks)
- Total Deck Width: 35.4m
- Max Pier Height: 81.6m

Project Duration:

2016-2019



Bridge Elevation

Sakarya FCC Balanced Cantilever Bridge.

Client:

Kolin Construction

Services:

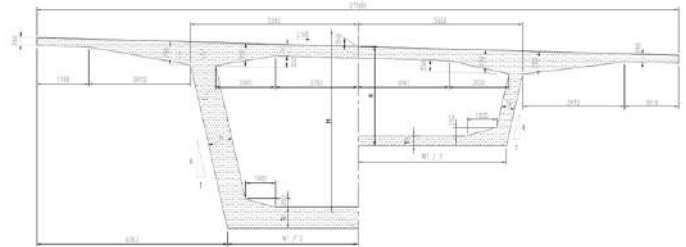
- Construction Engineering
- Detail Design
- Contractors Engineer

Specifications:

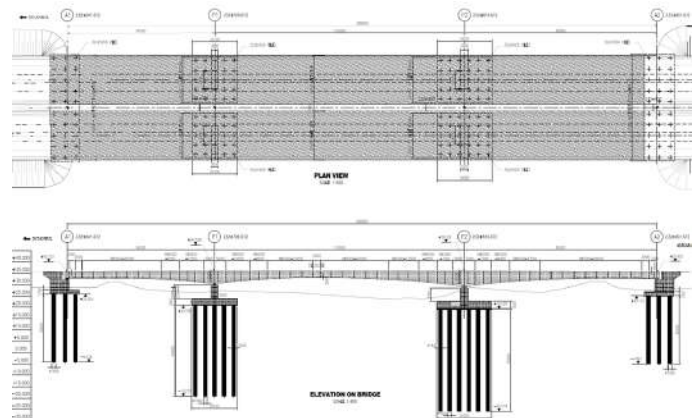
- FCC Free Cantilever Construction
- Two Decks Running Parallel
- Total Bridge Length: 260m
- Span Configuration: 65m+110m+85m
- Deck Width: 21.5m (Each Deck)
- Total Deck Width: 43m

Project Duration:

2020



Typical Deck Section



Plan & Elevation of Bridge



Client:

Gulsan Construction & Nurol construction Joint Venture

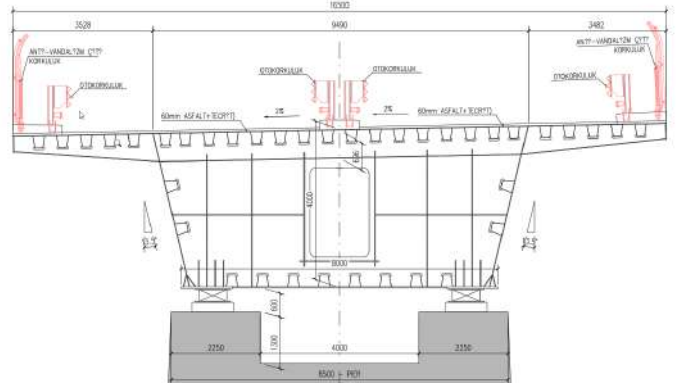
Services:

- Construction Engineering
- Superstructure Detail Design
- Substructure (IPC) Independent Checking Engineering
- Contractors Engineer

Specifications:

- Incremental Launching Construction Method
- Total Bridge Length: 685m
- Span configuration: 37.5m+82.5m*7+70m
- Deck Width: 16.5m

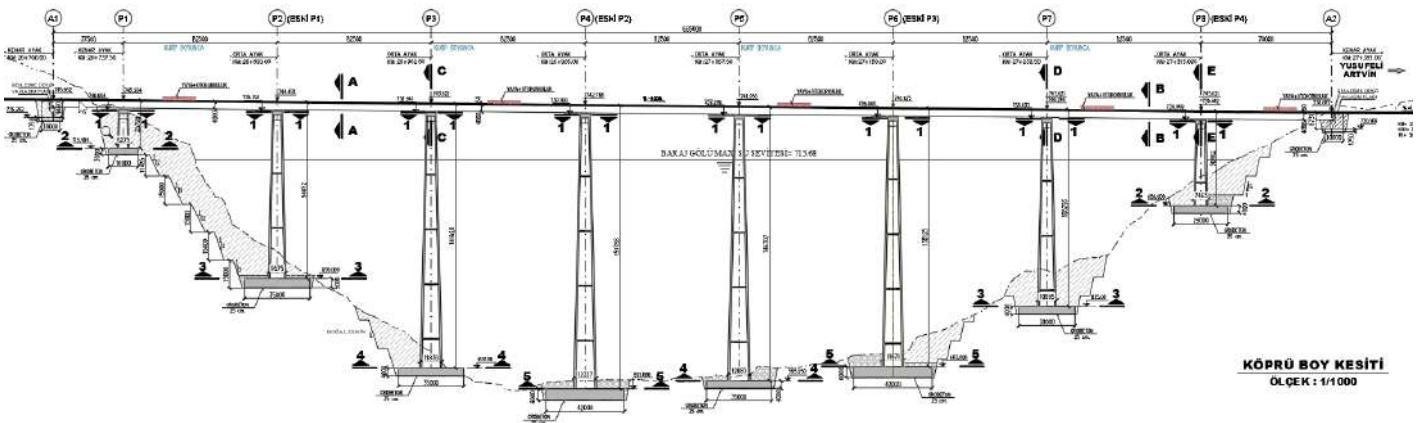
Project Duration: 2021-2023



Typical Deck Section



ILM Deck Launching



Bridge Elevation

Silifke Cable Stay Bridge, State of Mersin.

**Client:**

TTS Muhendislik

Services:

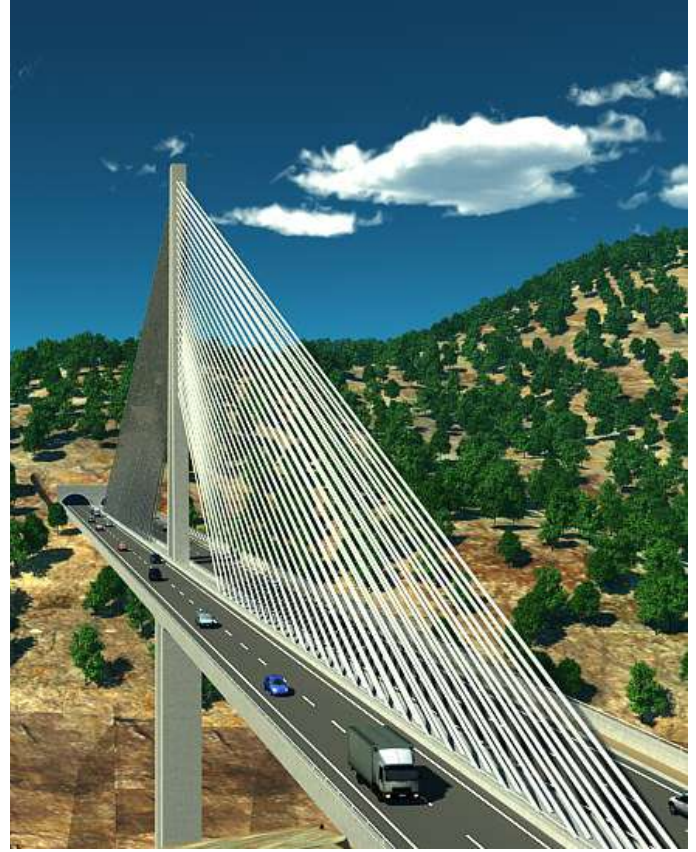
- Tender Design
- Detail Design

Specifications:

- Total Bridge Length: 410.4m
- Span Configuration: 205.2m+205.2m
- Pylon Height: 77.5m (From Deck Level)
- Deck Width: 27m

Project Duration:

2016



Komurhan Cable Stay Bridge, Eastern Anatolia.



Client:

Gulsan Holding Construction

Services:

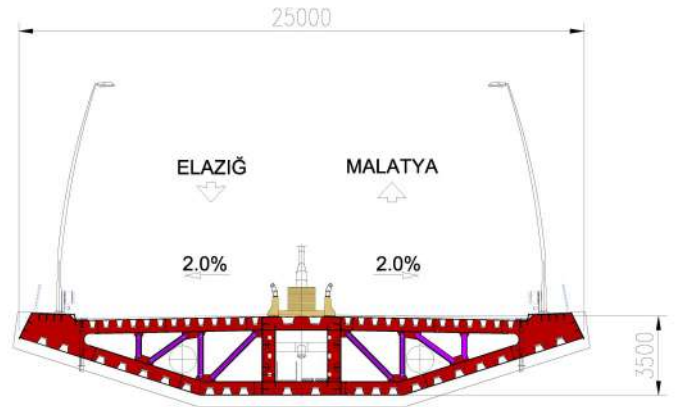
- Detail Design
- Construction Engineering
- Shop Drawings
- Contractors Engineer
- Major Temporary Works Design

Specifications:

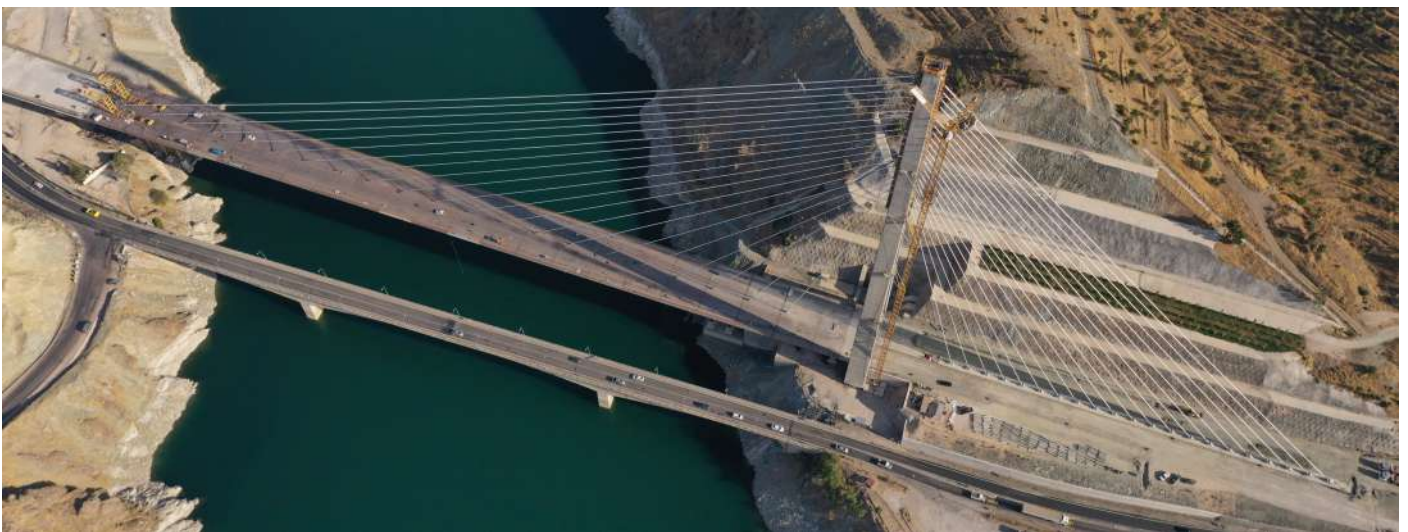
- Total Bridge Length: 660m
- Span Configuration:
180m+380m+50m+50m
- Deck Width: 25m
- Pylon Height: 180m (From Deck Level)

Project Duration:

2015-2017



Typical Deck Section



Izmit Bay Crossing South Approach Viaduct, ILM Bridge.

Client:

Nurol Insaat ve Ticaret AS.
MegaYapi Const & Trading Co.

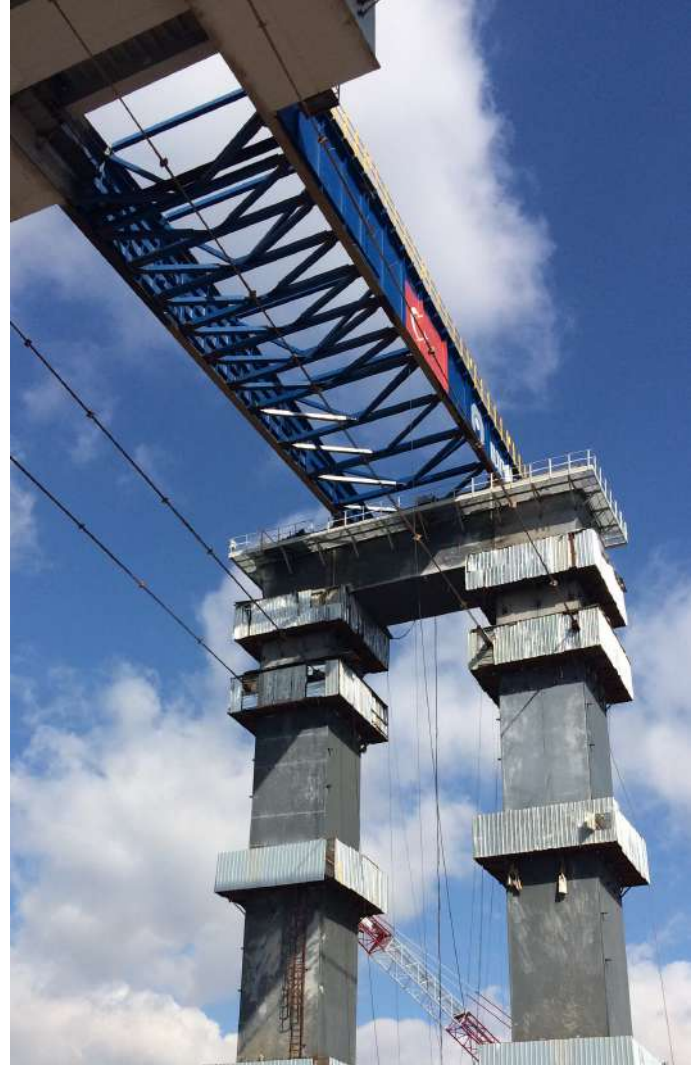
Services:

- Construction Engineering
- Deck ILM Launching Equipment Design
- Detail Design
- Shop Drawings
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Bridge Length: 1.378km
- Span Configuration:
126.92m+136m+132m+128m+124m+1
20m+116m+112m+108m+104m+100m
+72m
- Max Span: 136m / Min Span: 72m
- Deck Width: 35.93m
- Max Pier Height: 50m

Project Duration: 2012-2017



Golden Horn Metro Railway Crossing Project.



Client:

Astaldi Gulermak Joint Venture

Services:

- Construction Engineering
- Shop Drawings
- Lifting Equipment Design

Specifications:

- **South Concrete Approach Viaduct**
 - 17+25+25+42+32+27.9 Meter spans
 - 68.9m Total Bridge Length.
- **Steel Swing Bridge**
 - 50+70 Meter Spans
 - 120m Total Bridge Length
- **Steel Cable Stay Bridge**
 - 90+180+90 Meter Spans
 - 360m Total Bridge Length
- **North Concrete Approach Viaduct**
 - 27+36+36+36+36+45+28.5+23.5
 - Meter spans
 - 268m Total Project Length
- **Total Project Length: 916.9m**
 - Deck Width: 14.3m
 - Walkways Width: 3.4m (Each side)
 - Total Deck Width: 21.1m

Project Duration: 2007-2014



Golden Horn Metro Railway Crossing Project.



Client:

Hakan Kiran Architects

Services:

- Detail Design

Specifications:

- **South Concrete Approach Viaduct**
- 17+25+25+42+32+27.9 Meter spans
- 68.9m Total Bridge Length.
- **Steel Swing Bridge**
- 50+70 Meter Spans
- 120m Total Bridge Length
- **Steel Cable Stay Bridge**
- 90+180+90 Meter Spans
- 360m Total Bridge Length
- **North Concrete Approach Viaduct**
- 27+36+36+36+36+45+28.5+23.5
- Meter spans
- 268m Total Project Length
- **Total Project Length: 916.9m**
- Deck Width: 14.3m
- Walkways Width: 3.4m (Each side)
- Total Deck Width: 21.1m



Project Duration: 2007-2014



Nissibi Cable Stay Bridge.



Client:

Gulsan Holding Construction

Services:

- Construction Engineering
- Tender Design
- Detail Design
- Construction Engineering
- Shop Drawings
- Contractors Engineer

Specifications:

- Total Bridge Length: 620m
- Span Configuration:
100m+420m+100m
- Deck Width: 17.8m
- Pylon Height: 114m (From Deck Level)

Project Duration:

2012-2016



**Client:**

MegaYapi Construction & Trading Company

Services:

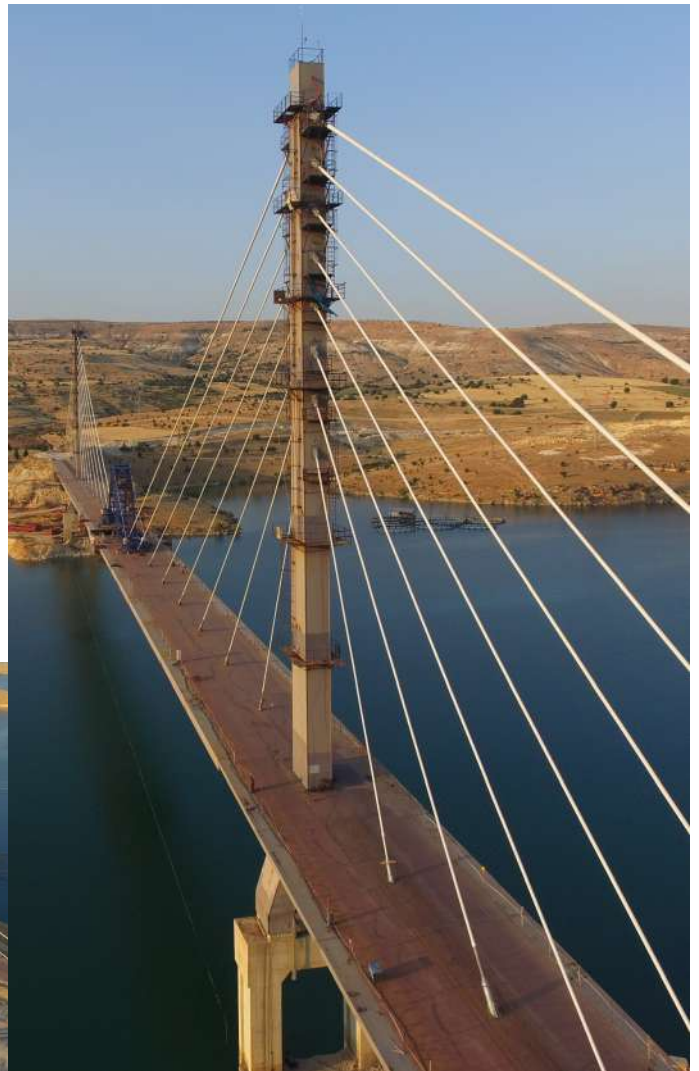
- Construction Engineering
- Preliminary Design
- Detail Design
- Shop Drawings
- Contractors Engineer

Specifications:

- Total Bridge Length: 520m
- Span Configuration:
120m+280m+120m
- Deck Width: 13m
- Pylon Height: 55m (From Deck Level)

Project Duration:

2007-2014



Manavgat Antalya Cable Stay Bridge.



Client:

MegaYapi Construction & Trading Company

Services:

- Preliminary Design
- Detail Design
- Construction Engineering
- Shop Drawings
- Erection Gantry Design

Specifications:

- Total Bridge Length: 202m
- Span Configuration: 101m+101m
- Deck Width: 13.7
- Pylon Height: 40m(From Deck Level)

Project Duration:

2007-2008



Beylerderesi FCC Balanced Cantilever Bridge.

Client:

MegaYapi Construction & Trading Company

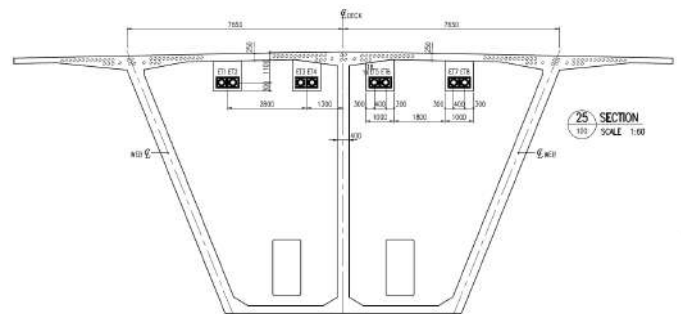
Services:

- Preliminary Design
- Detail Design
- Construction Engineering
- Shop Drawings
- Contractors Engineer



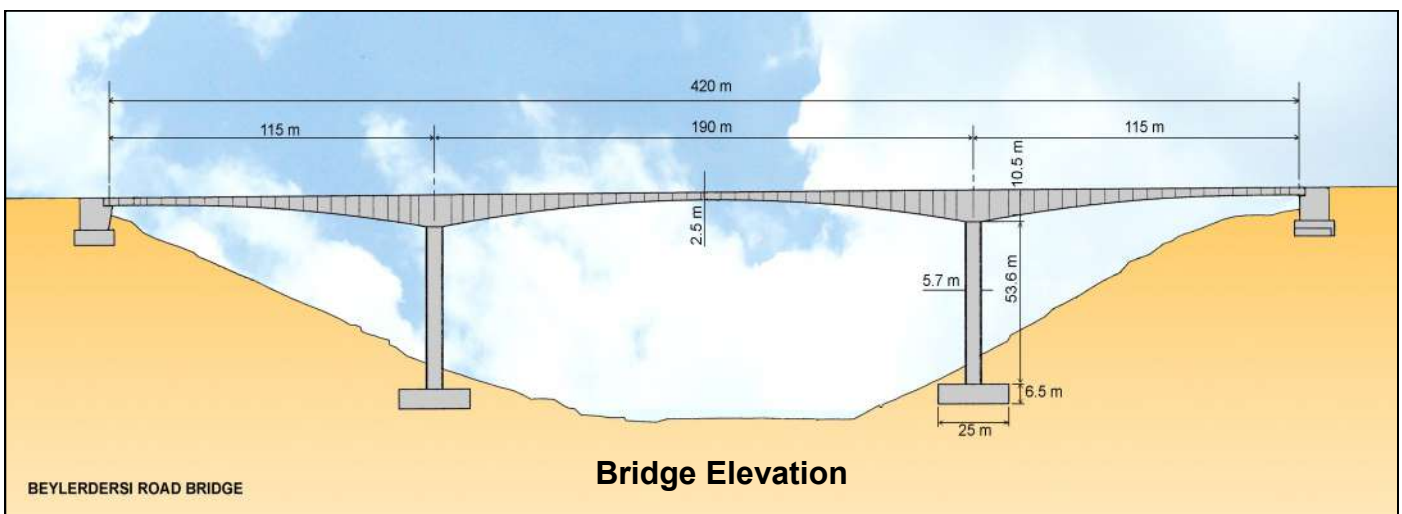
Specifications:

- FCC Balanced Cantilever Construction
- Total Bridge Length: 420m
- Span Configuration: 115m+190m+115m
- Deck Width: 24m
- Pier Height: 53.6m



Typical Deck Section at Piers

Project Duration: 2005-2007



Artvin FCC Four Balanced Cantilever Bridges.

Client:

MegaYapi Construction & Trading Company

Services:

- Preliminary Design
- Detail Design
- Contractors Engineer

Specifications:

- **Four FCC Cantilever Bridges**

- **Budan & Berta Bridges**
- Total Length: 360m
- Span Configuration: 87.5m+185m+87.5m

- **Akarsin Bridge**
- Total Length: 275m
- Span Configuration: 71.5m+132m+71.5m

- **Sengan Bridge:**
- Total Length: 190m
- Span Configuration: 95m
- All Bridges Deck Width: 15m

- Pier Heights Vary: 75m to 108m

Project Duration:

2005-2007



Agin FCC Balanced Cantilever Bridge.

Client:

MegaYapi Construction & Trading Company

Services:

- Preliminary Design
- Detail Design
- Construction Engineering
- Major Temporary Works Design
- Contractors Engineer

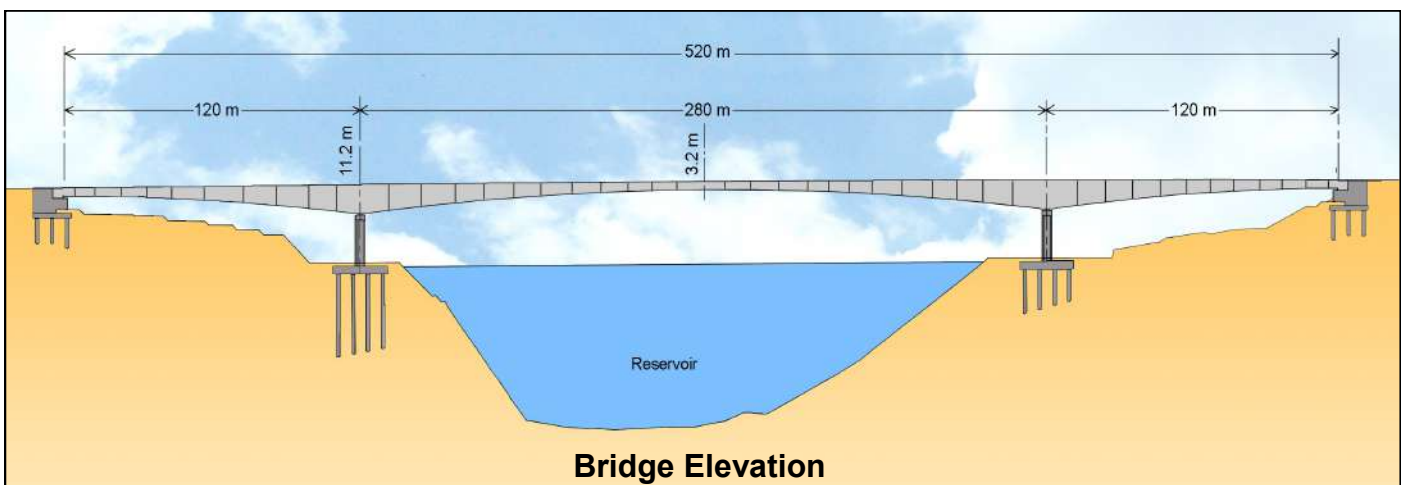
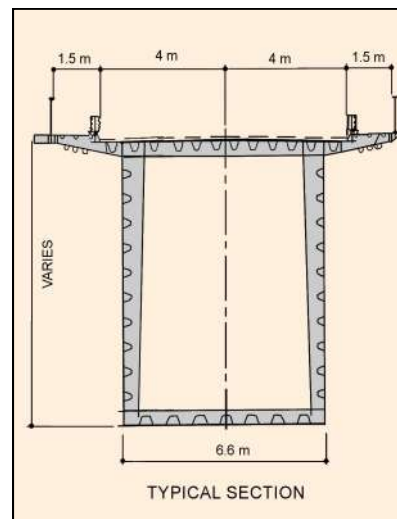
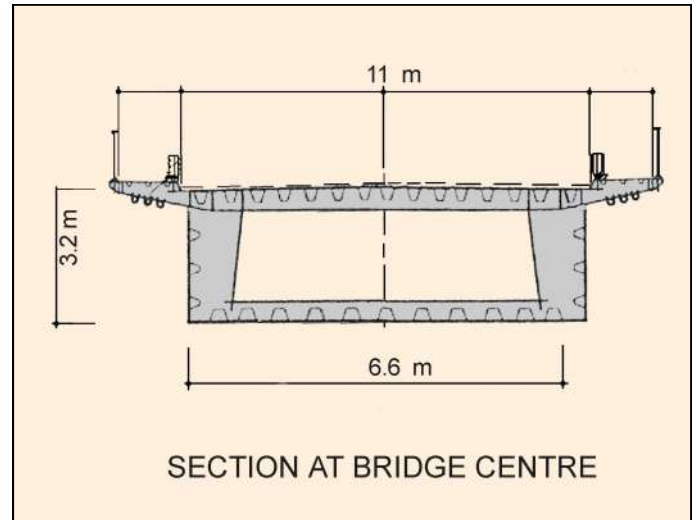
Specifications:

- FCC Balanced Cantilever Bridge
- Total Bridge Length: 520m
- Span Configuration: 120m+280m+120m
- Deck Width: 11m

Project Duration: 2004-2005 (Stopped)

Bridged Redesigned to Cable Stay Bridge

See Page 20





Client:

BOTEK Consulting Corporation

Services:

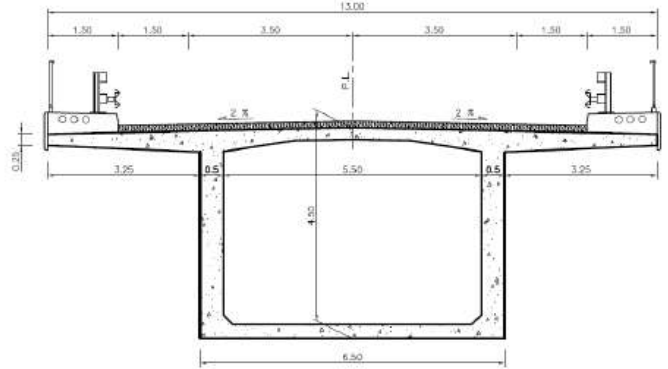
- (IPC) Independent Check Engineering

Specifications:

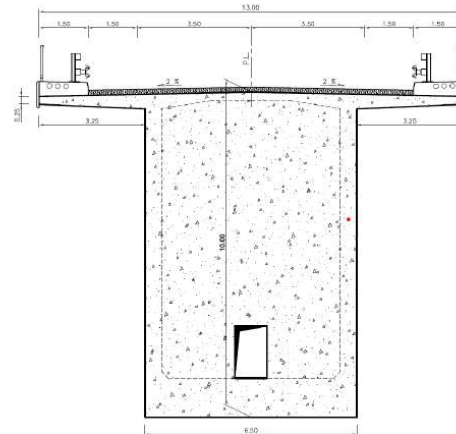
- Balanced Cantilever Bridge
- Total Bridge Length: 520m
- Span Configuration:
90m+170m+170m+90m
- Total Spans: 4
- Deck Width: 13m

Project Duration:

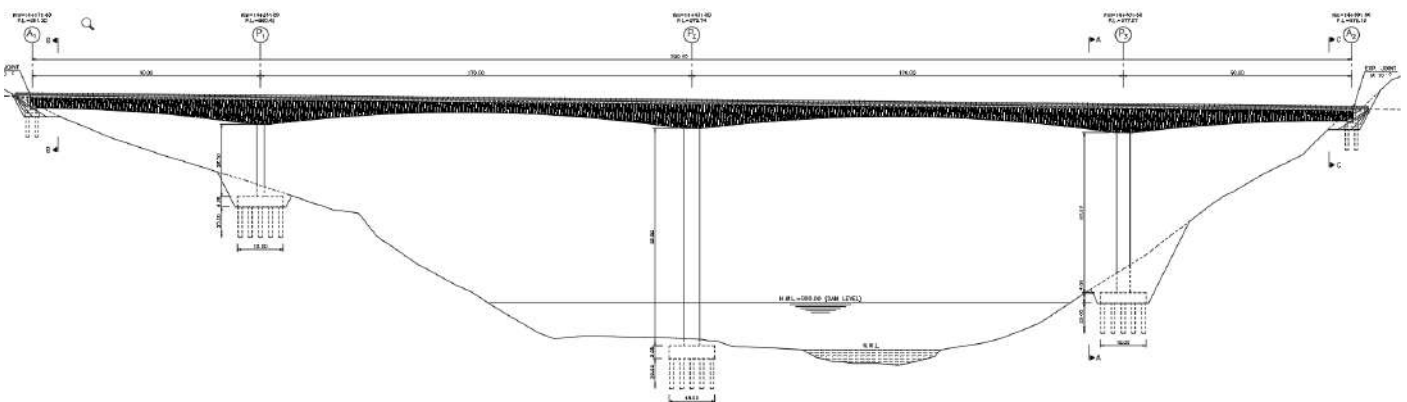
2022-2023



Deck Section at Midspan



Deck Section at Pier Location



Bridge Elevation



Client:

Nurol Construction

Services:

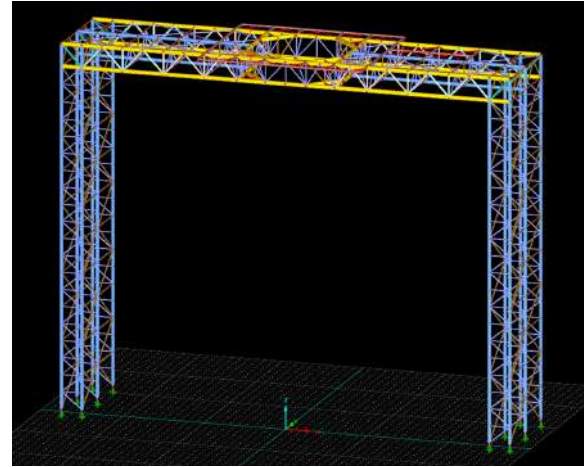
- (IPC) Independent Check Engineering

Specifications:

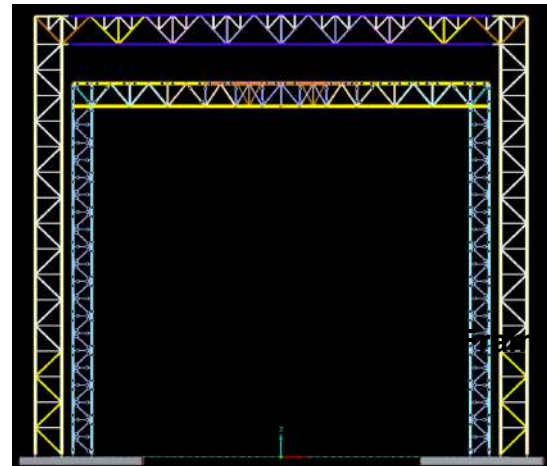
- Aircraft Heavy Lifting Design Check
- Outer Main Frame Design Check
- Inner Frame Design Check
- Entire Structure Design Check

Project Duration:

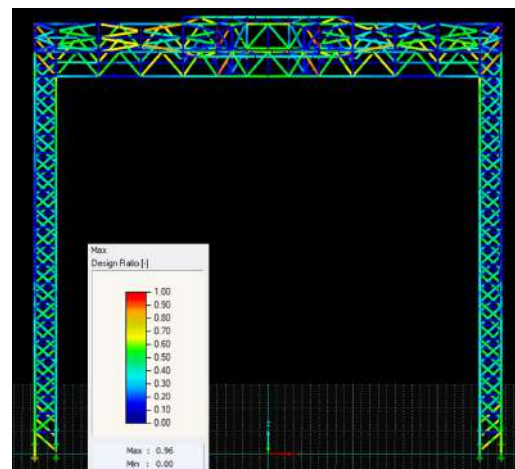
2022



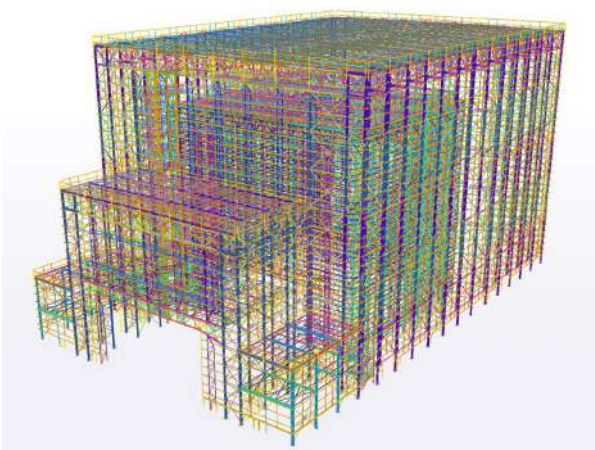
Aircraft Hanging Structure



Outer / Inner Structure



Design Model



Entire Structure

Client:

Gulsan Construction & Nurol Construction Joint Venture

Services:

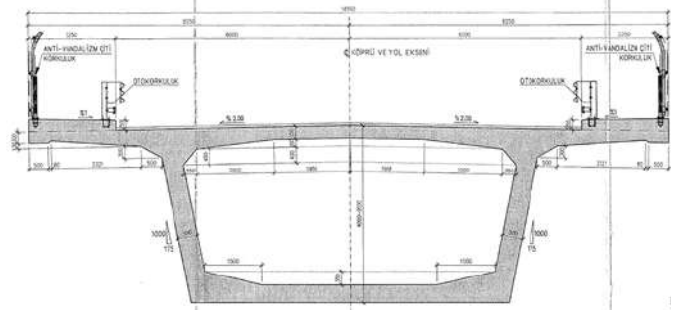
- Yusufeli Baraj FCC Bridge
- (IPC) Independent Check Engineering

Specifications:

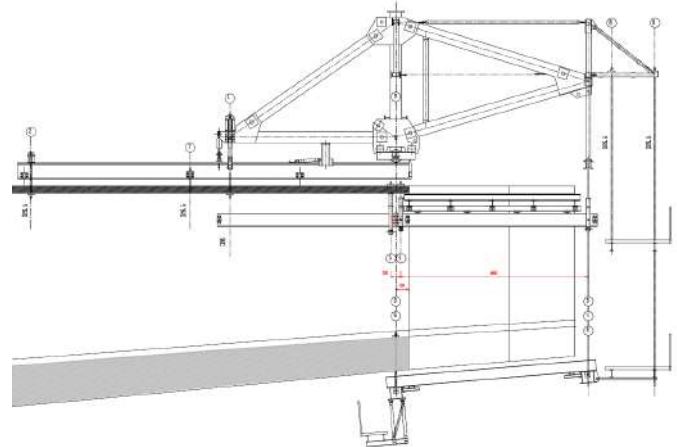
- FCC Free Cantilever Construction
- Total Bridge Length: 345m
- Span Configuration: 90m+165m+90m
- Deck Width: 14.5m

Project Duration:

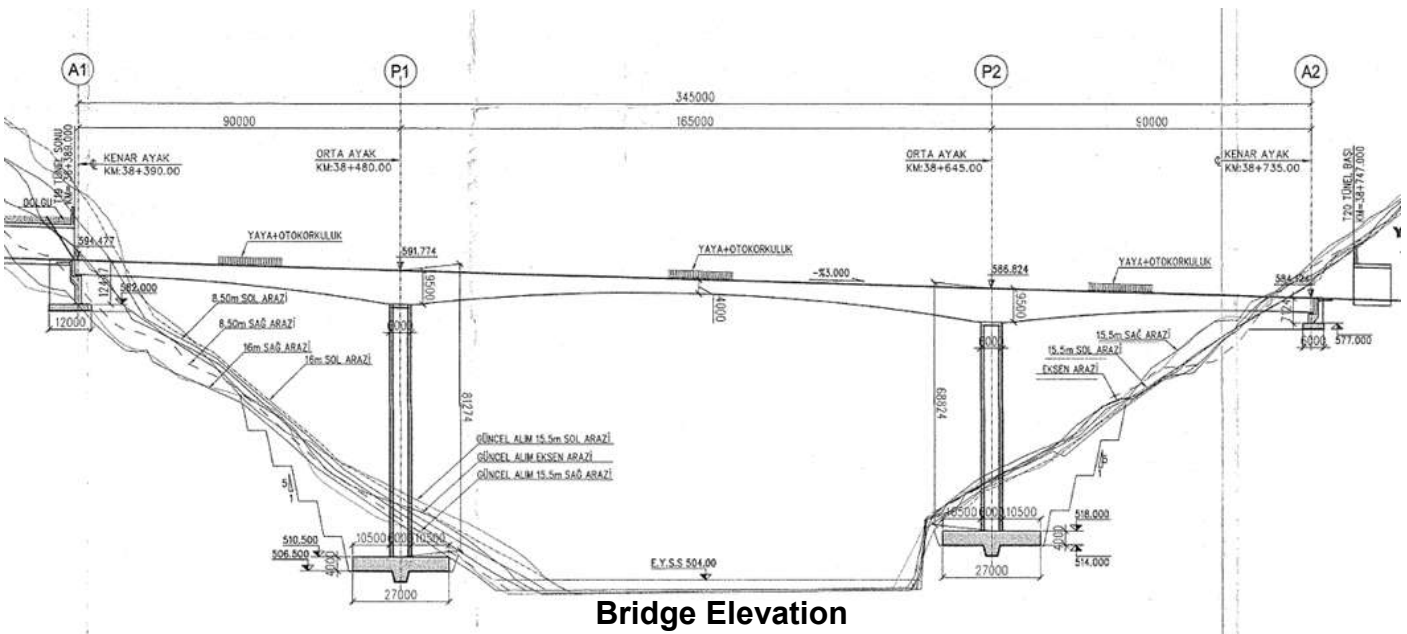
2020



Typical Deck Section



Typical Deck FCC Form Traveler



Bridge Elevation

Client:

Gulsan Construction & Nurol Construction Joint Venture

Services:

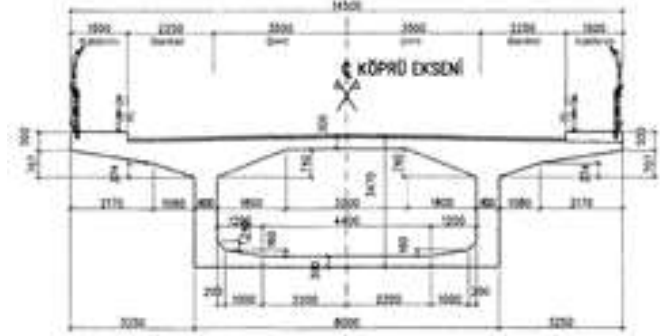
- Yusufeli Tekkale FCC Bridge
- (IPC) Independent Check Engineering

Specifications:

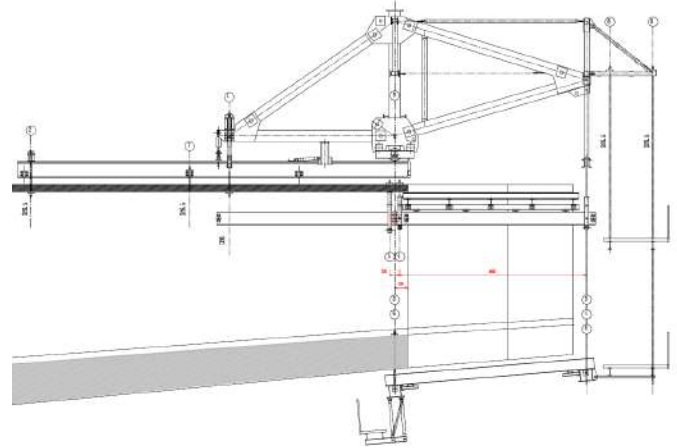
- FCC Free Cantilever Construction
- Total Bridge Length: 628m
- Span configuration:
53m+137.5m+175m+165m+97.5m
- Deck Width: 14.5m

Project Duration:

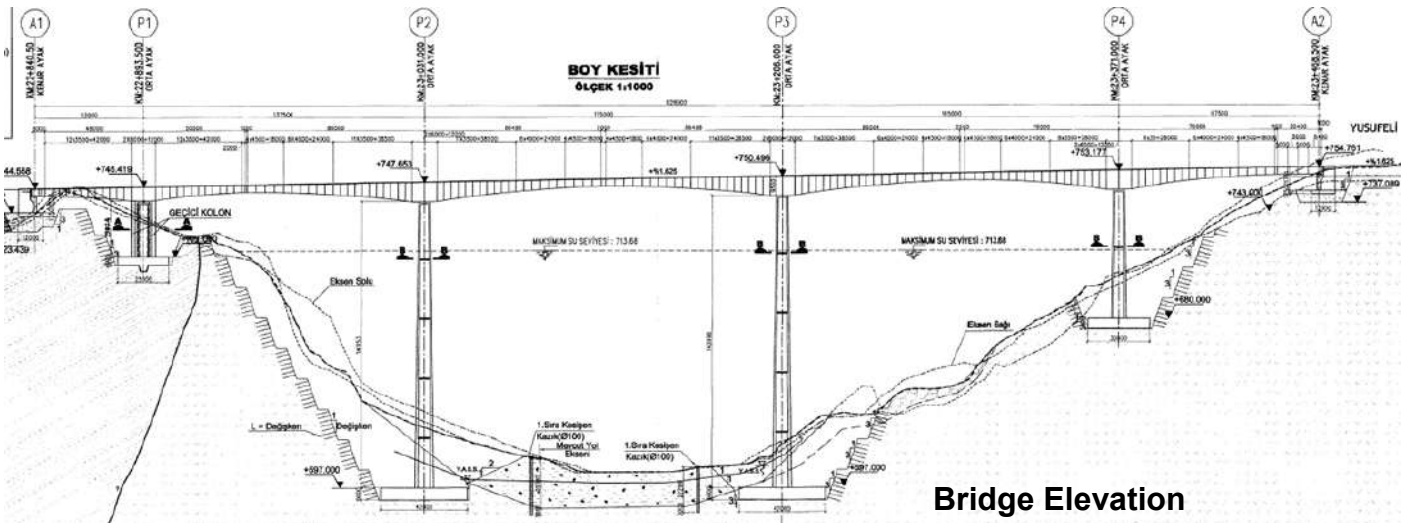
2020



Typical Deck Section



Typical Deck FCC Form Traveler



Bridge Elevation

Client:

Gulsan Construction & Nurol Construction Joint Venture

Services:

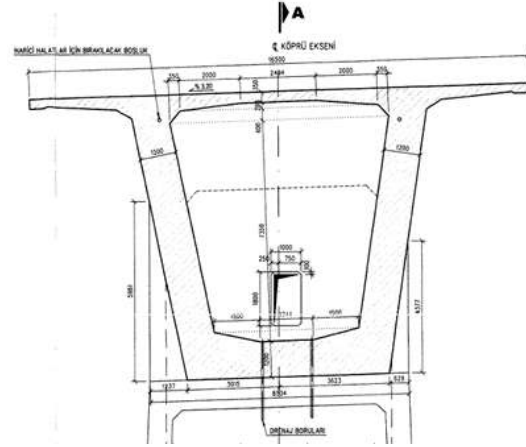
- Yusufeli Silenkar FCC Bridge
- (IPC) Independent Check Engineering

Specifications:

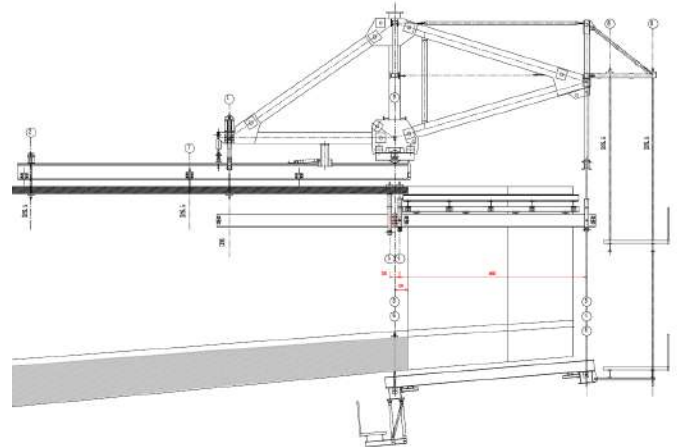
- FCC Free Cantilever Construction
- Total Bridge Length: 530m
- Span configuration: 100m+165m+165m+100m
- Deck Width: 14.5m

Project Duration:

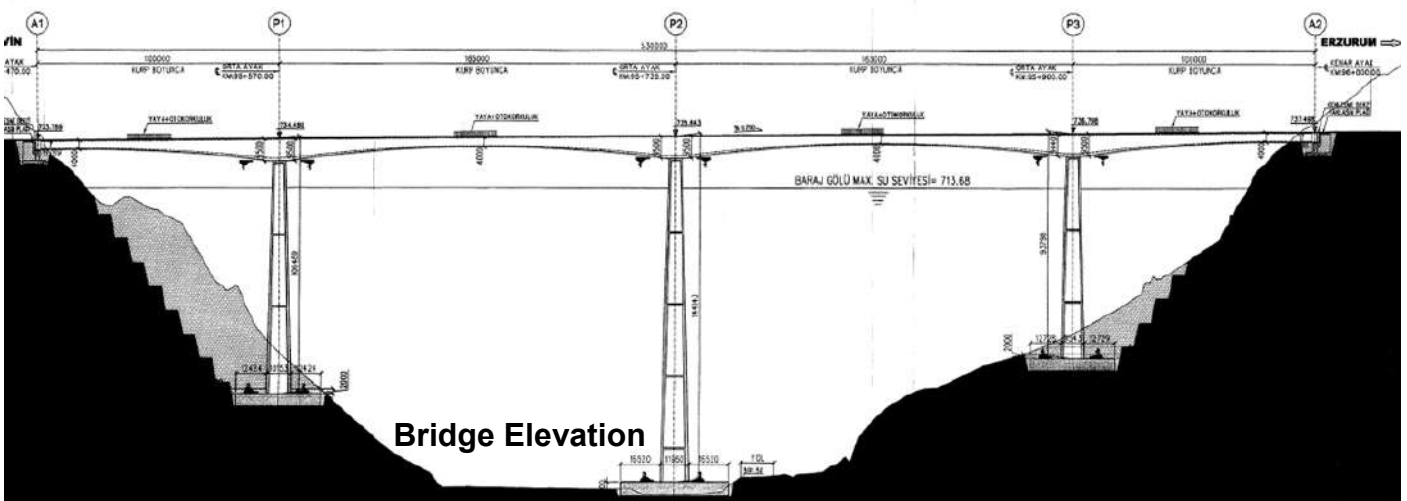
2020



Typical Deck Section



Typical Deck FCC Form Traveler



Bridge Elevation



Client:

Cengiz Construction

Services:

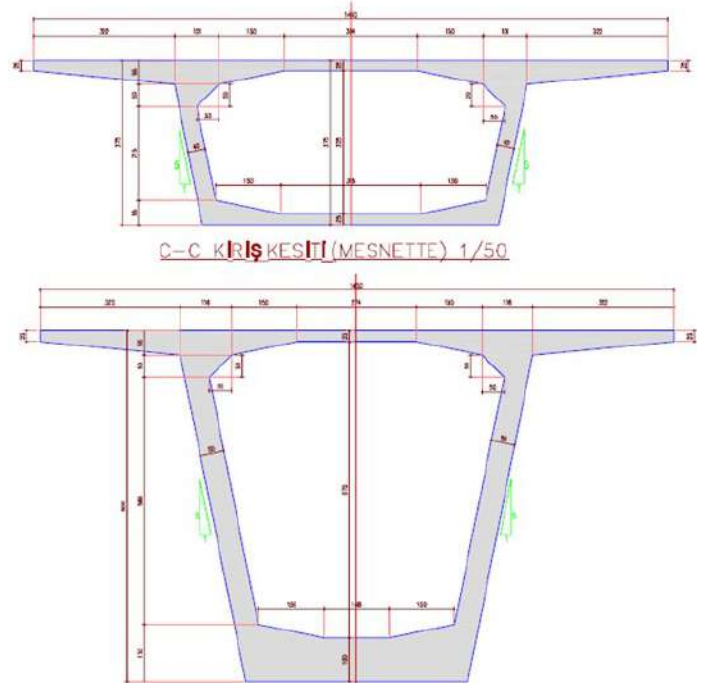
- (IPC) Independent Check Engineering

Specifications:

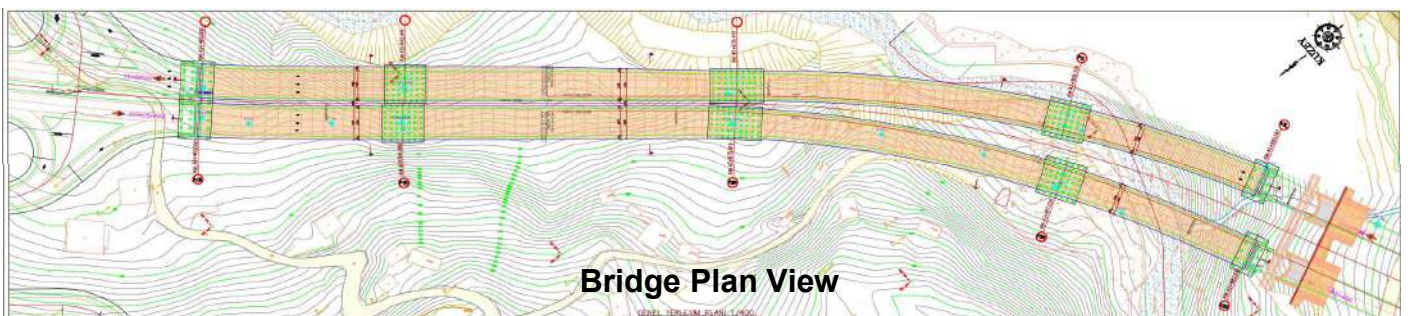
- FCC Free Cantilever Construction
- Total Bridge Length: 432m
- Span configuration:
82m+134m+134m+82m
- Deck Width: 14m

Project Duration:

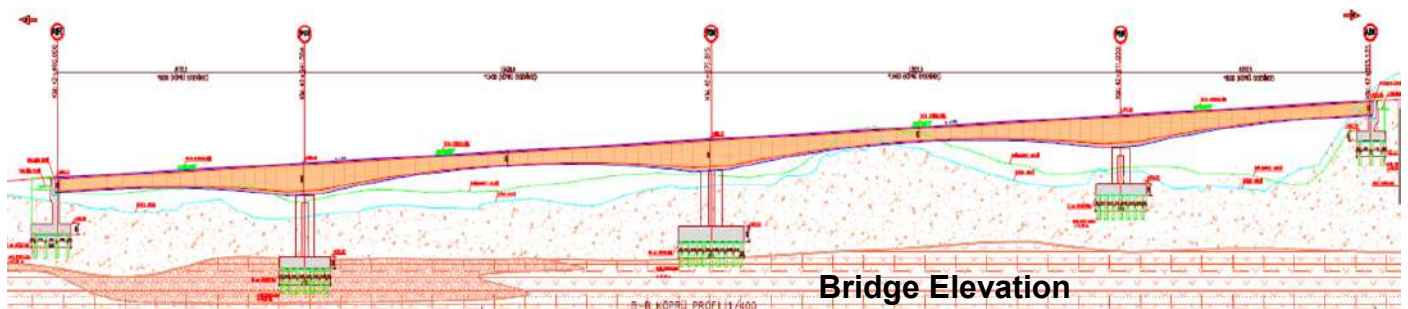
2020



Typical Deck Sections



Bridge Plan View



Bridge Elevation



Client:

Inpro

Services:

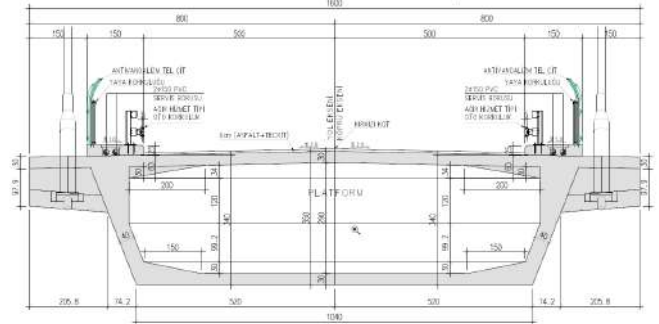
- (IPC) Independent Check Engineering

Specifications:

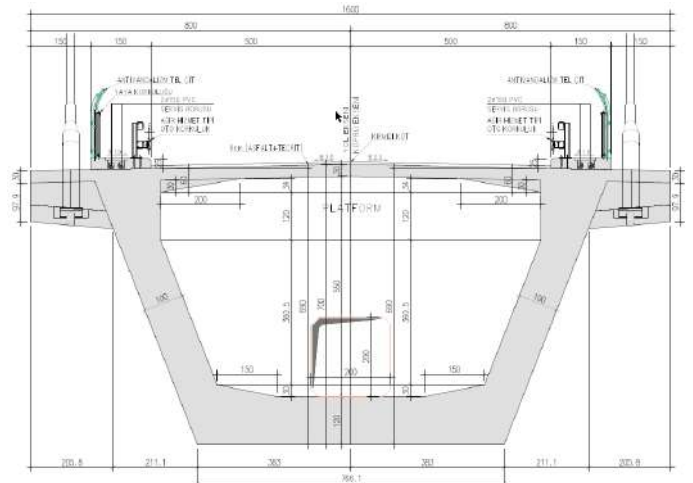
- Extradosed Bridge
- FCC Free Cantilever Construction
- Total Bridge Length: 650m
- Span Configuration:
130m+210m+130m+60m+60m+60m
- Deck Width: 16m
- Pylon Height: 25m (From Deck Level)

Project Duration:

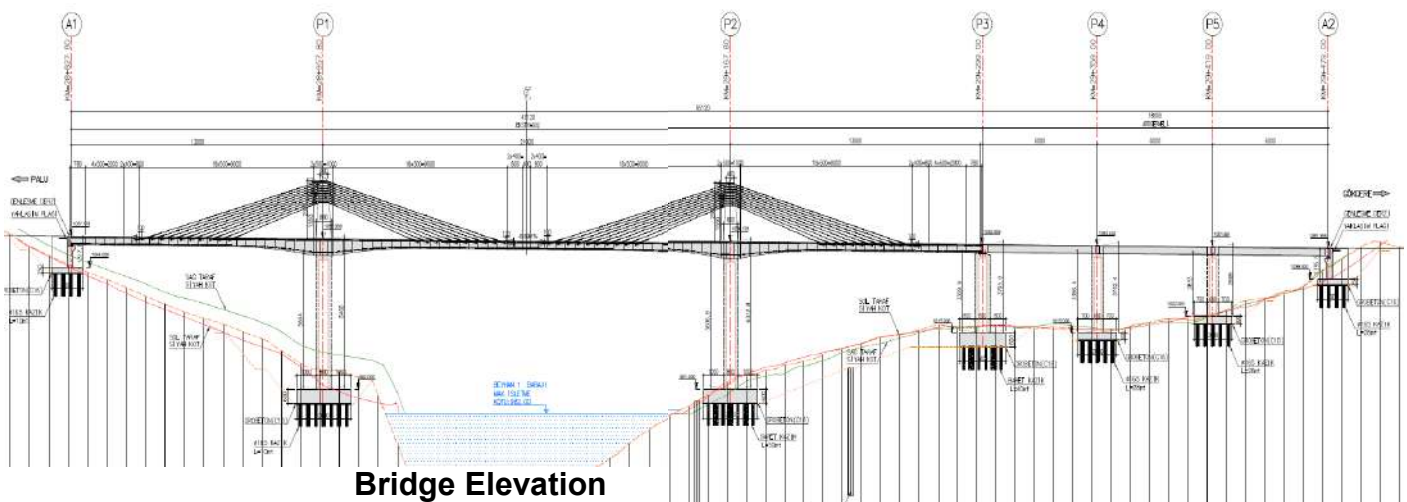
2020



Typical Deck Section at Midspan



Typical Deck Section at Pylons



Bridge Elevation



wiecon

11 Floor, 866-3 Zhongzheng Rd
Zhonghe District, Taipei, 235,
Taiwan.
Tel: +886 (0)2 2221-3833
Web: www.wiecon.com.tw

Contact:
Mr. Boris Wiessler
President
wiecon@wiecon.com.tw

Bridge Design & Engineering Services

wiecon