

CATALOGUE



TETRATÜRK



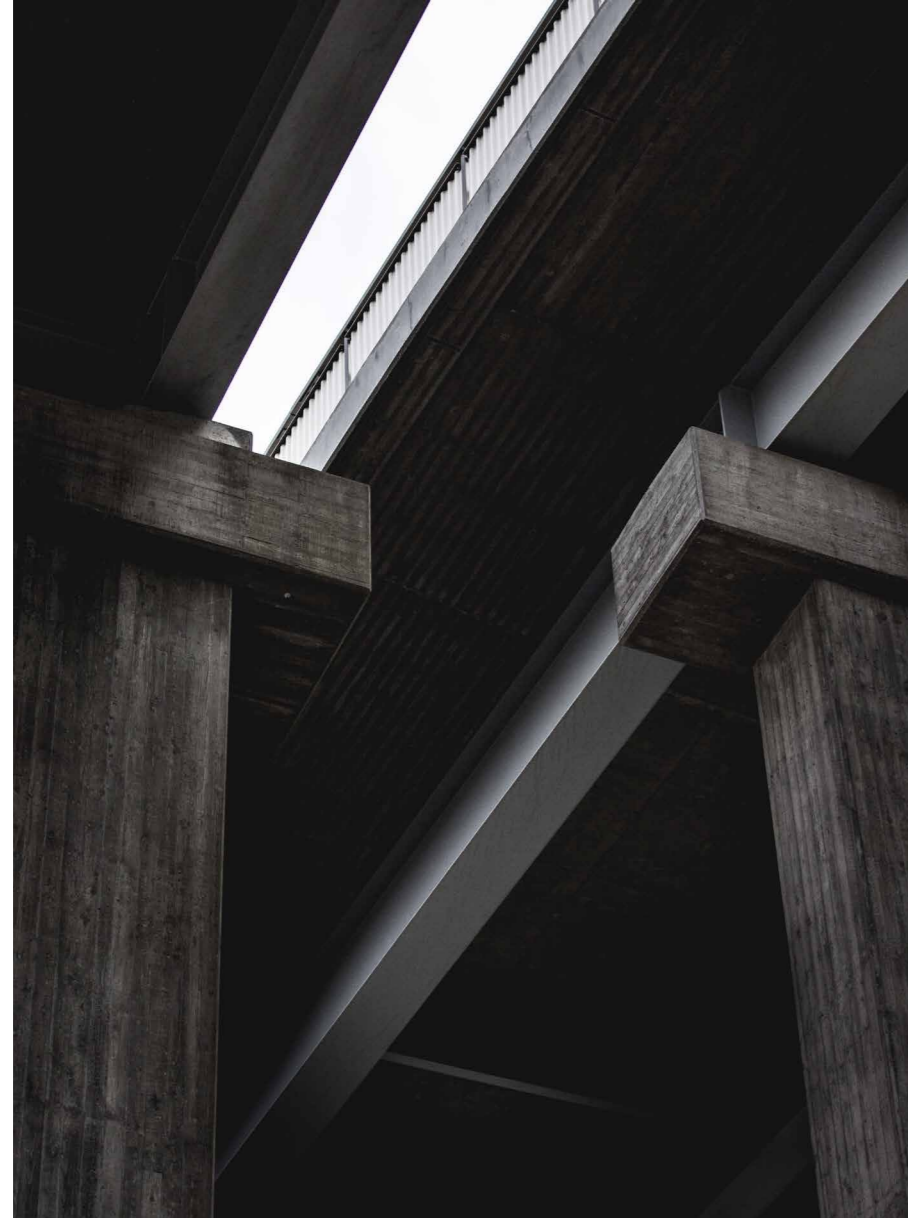
TETRATÜRK

TETRATÜRK INTERNATIONAL
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LTD. CO.

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Mustafa Pasa Bridge / BULGARIA
GREAT SINAN



WHO WE ARE?

TETRATÜRK, an international firm, which serves solutions in every scale, consists of realistic - rational engineers and architects.

Since our establishment, we have successfully finished a considerable number of national and international designs, we are still working on our ongoing projects.

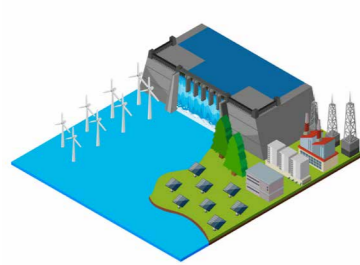
We; want to touch every piece of land on which human beings live and are working with the aim of presenting sustainable, innovative and original designs to the service of human civilization. Our customer profile, that who respects working effort, engineering and architecture, and therefore, knowledge, science and art, is almost all fraction of civilization.



Engineering For Civilization...



OUR SERVICES



Hydraulic and Water Resources Engineering Services

Reservoir Planning and Design
Irrigation and Dewatering Facilities Design
Tunnel, Regulator and Energy Dispersion Facilities Design
Water Intake Structure, Well and Water Reservoir Structure Design
Culvert and Access Channel Design
Channel and Canalette Design
Hydrology Studies
Engineering Structures Design



Transportation Engineering Services

Navigation (River Transportation) Design
Railway Systems Design
Highway Design
Bicycle and Pedestrian Road Design
Overpass and Underpass Design
Bridge Design



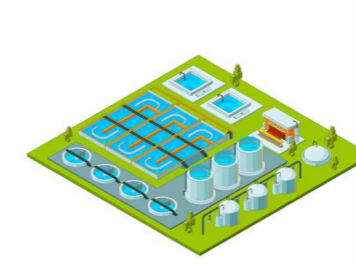
Superstructure Engineering Services

Reinforced Concrete, Steel and Timber Structure Analysis and Design
Masonry Structure Design
Industrial Facilities Design
Precast Structure Design
Car Park and Runway Design
Tunnel Design
Engineering Structures Design



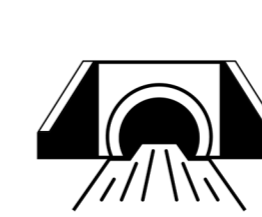
Architectural Services

Cultural Architecture
Public Architecture
Mixed-Used Structures Architecture
Religious Architecture
Healthcare Architecture
Industrial and Infrastructure Architecture
Commercial & Office Architecture
Residential Architecture
Educational and Sports Architecture
Luxury Living Area Architecture
Landscape & Urbanism Architecture
Hospitality & Interior Design Architecture



Water Supply, Wastewater and Public Health Engineering Services

Tap Water Supply Facilities Planning and Design
Wastewater Collecting and Removal Facilities Planning and Design
Tap Water, Service Water and Wastewater Treatment Plant Planning and Design
Pumping Station Design
Deep Sea Discharge Design
Waste Collecting and Storing Facilities (Landfill Area) Design
Construction and Technology Consultancy



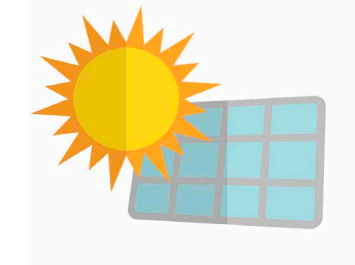
Flood and Drainage Engineering Services

Flood Risk Mapping Works
Railway and Highway Drainage Design
Runway, Airport and Sports Area Drainage Design
Complex Building and Recreational Drainage Design
Mining and Agricultural Areas Drainage Design
Stormwater and Flood Drainage and Retardation Facilities Design
Drainage Water Reusing Works
Upper Basin Planning and Basin Modelling
Creek, River and Stream Restoration and Rehabilitation
Hydraulic Culvert and Bridge Design



Computer Aided Analysis Services

Computational Fluid Dynamics Analysis (CFD)
Flood Analysis
Durability Analysis
Stress Analysis Under the Loads



Energy Engineering Services

HEPP and Smart Hydro Design
Solar Power Plant Design
Geothermal Power Plant Design (BOP)

”

Engineering does not mean to know everything.
Engineering is to know where to find what you are looking for.

“

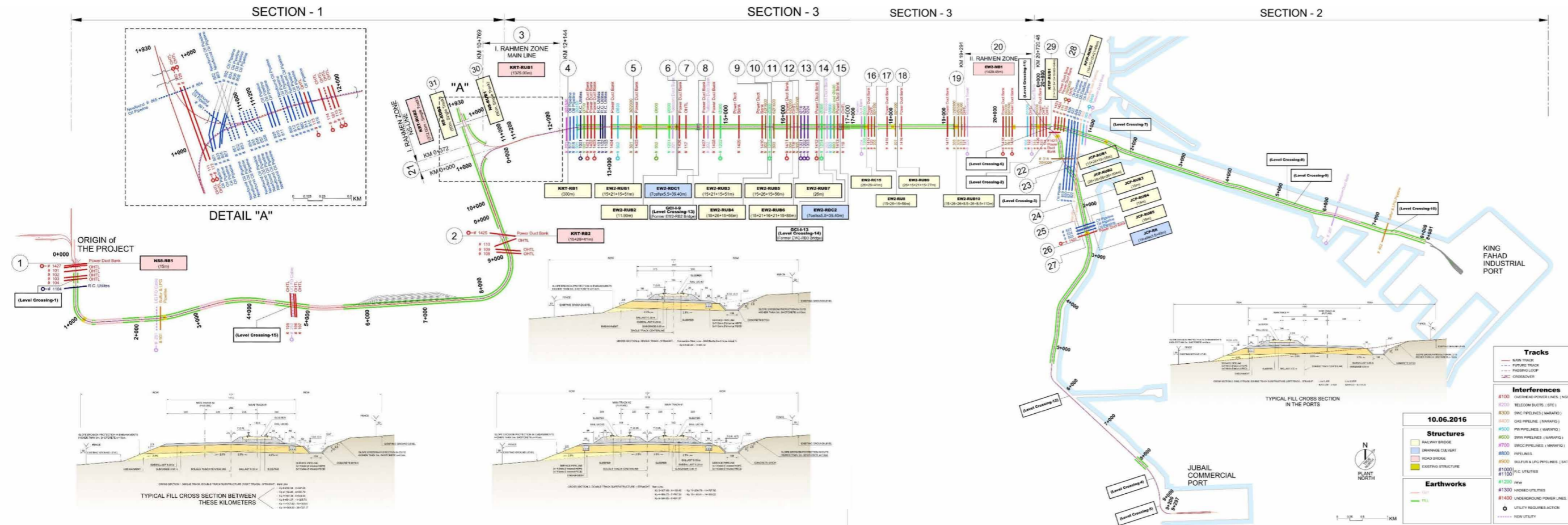


CTW130 – SADARA & JUBAIL RAILWAY NETWORK PROJECT

TYPOLOGY: RAILWAY PROJECT
 DATE: 2018-2019
 LOCATION: AL JUBAIL
 AL JUBAIL / SAUDI ARABIA

The CTW130 civil and track works project defines the railway connection between Jubail Industrial Cities 1 and 2 (Sadara Petrochemical Facilities) and two ports, King Fahad Industrial Port and Jubail Commercial Port at Jubail, Eastern Province, Saudi Arabia.

- Jubail Railway Network Mainline (Apprx. 41.0 km)
- Line 8 Jubail Commercial Port (JCP) & Marine Loading Yard (9.297 m² + 2.369 m²)
- Line 9 King Fahad Industrial Port (KFIP) & Marine Loading Yard (8.080 m² + 2.729 m²)
- Jubail Railway Network (CTW 130) - SAR North-South Connection Line (CTW 110 & CTW 120) (3.0 km)
- Sadara Sideline & Sadara Loading Yard (6.966 m²)
- SAR Marshalling Yard and Warehouse (28.630 m²)
- Transition Lines (2.0 km)
- Bridges, culverts and other superstructures on piles (59 pcs.)



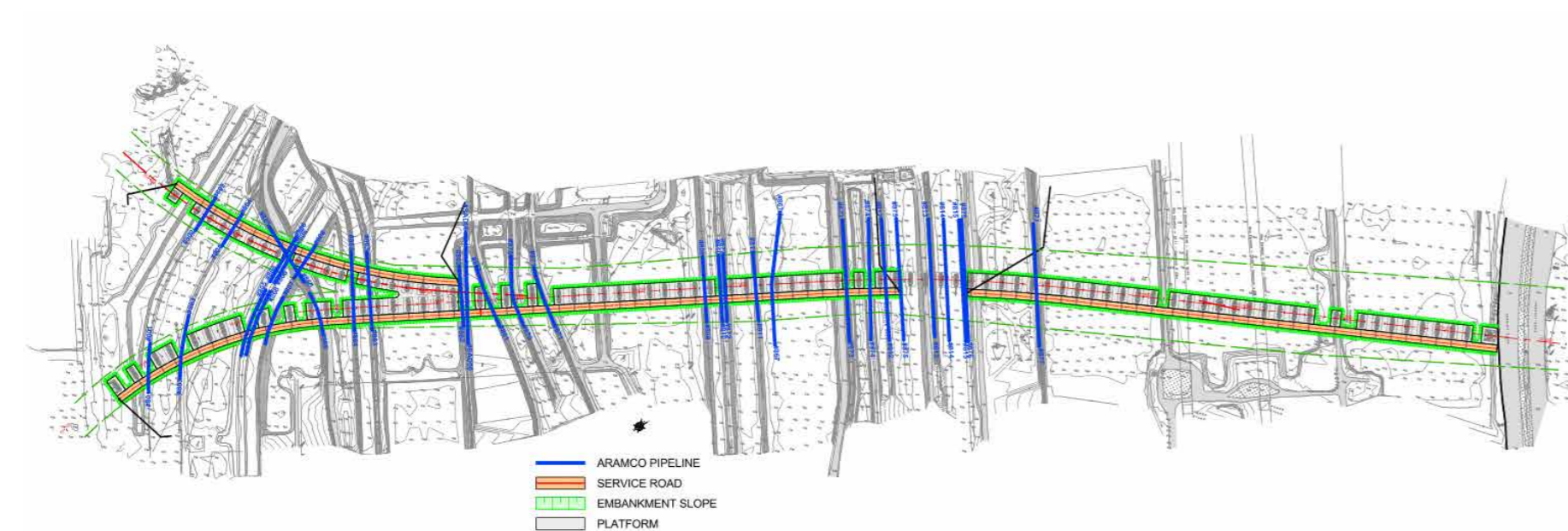
ARAMCO KRT CORRIDOR PIPES STRESS ANALYSES OF BURRIED PETROLEUM PIPES UNDER HEAVY LOADS

TYPOLOGY: GEOTECHNICAL ANALYSIS

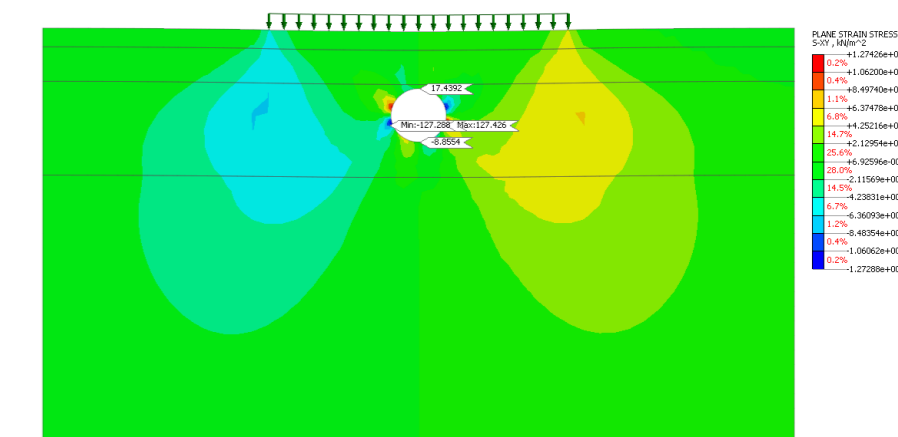
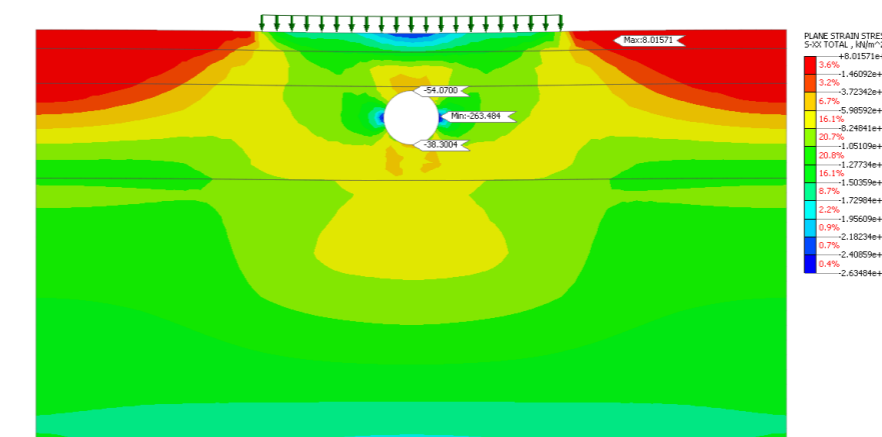
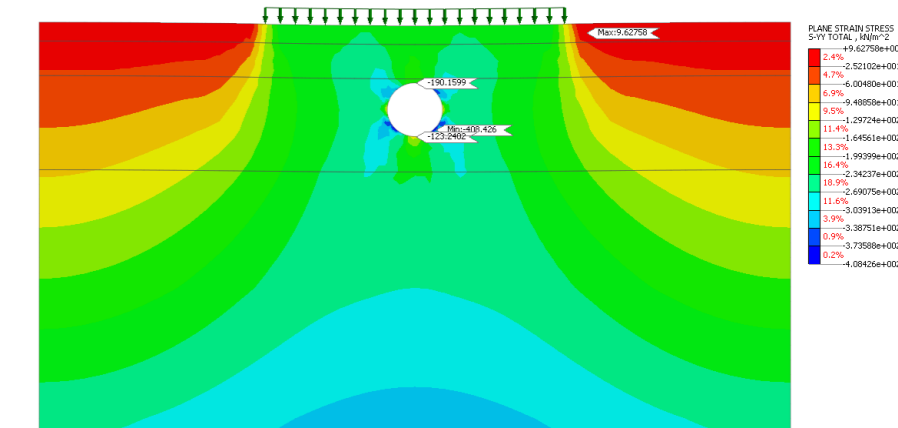
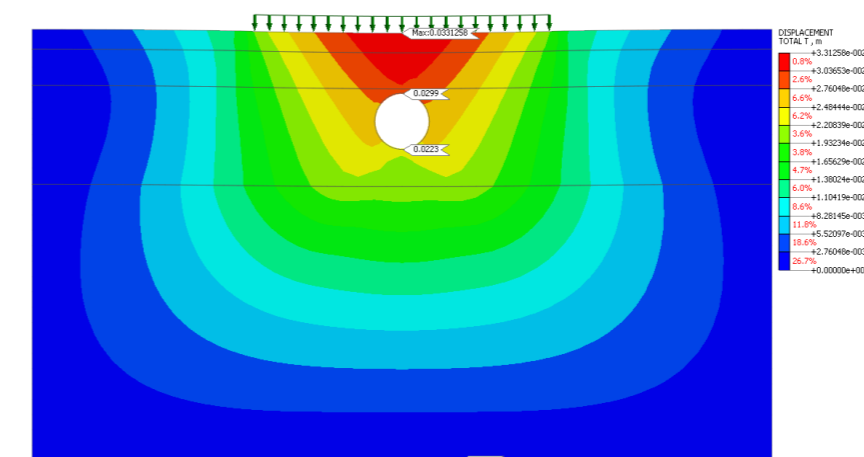
DATE: 2018

LOCATION: AL JUBAIL

AL JUBAIL / SAUDI ARABIA

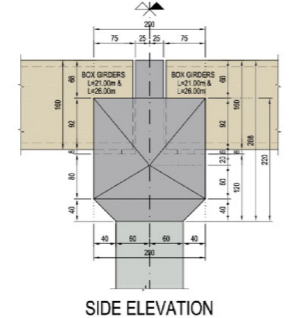
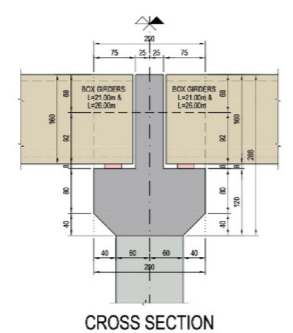
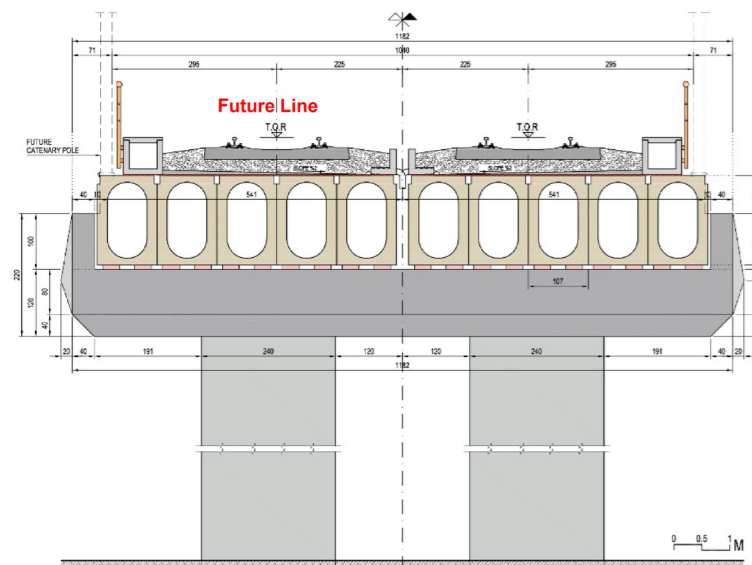
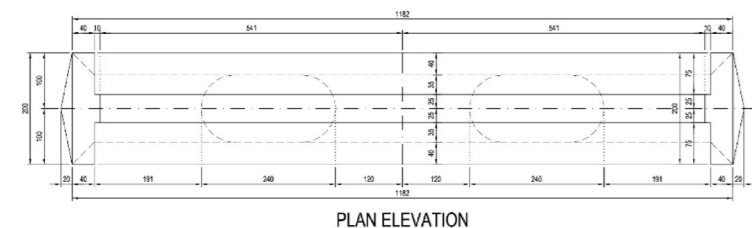


The aim is to define the most suitable embankment for the service road which is necessary to perform the abutments on the KRT Corridor. Within the scope of this work; soil features and all petroleum pipes in the region were modeled with MIDAS GTS NX software and analyzed according to heavy loads. All analyzes were performed according to API-1102. The most suitable embankment was determined and the explanation report including all these studies was prepared.



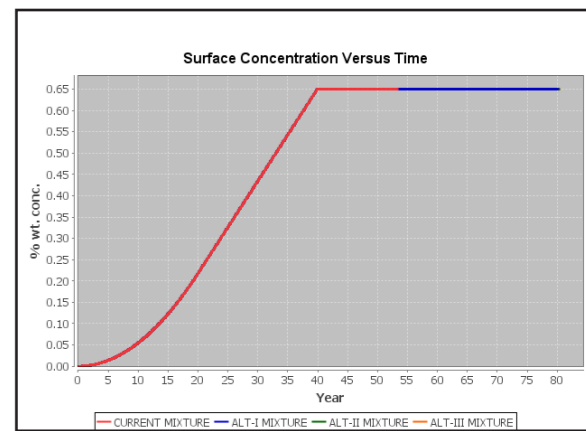
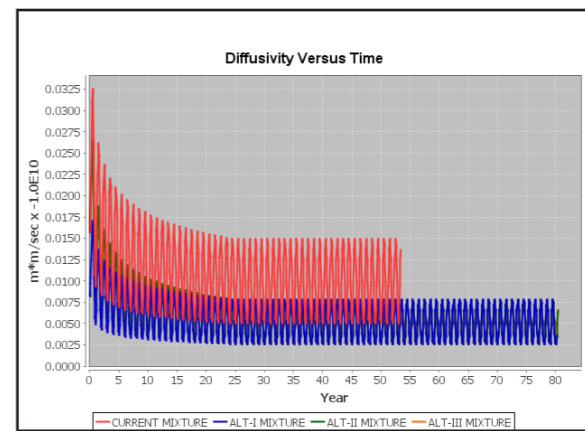
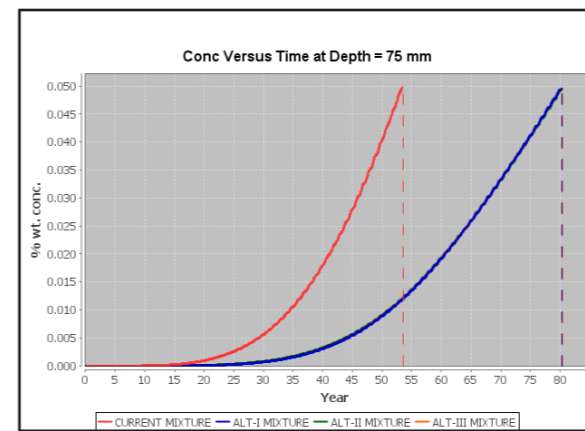
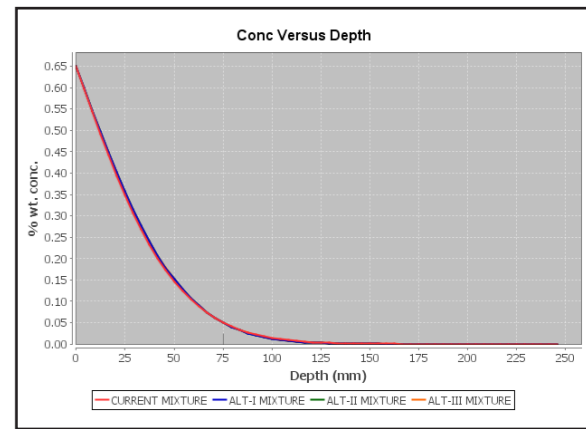
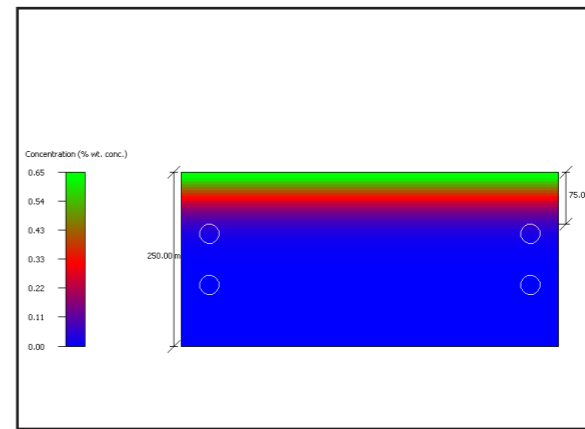
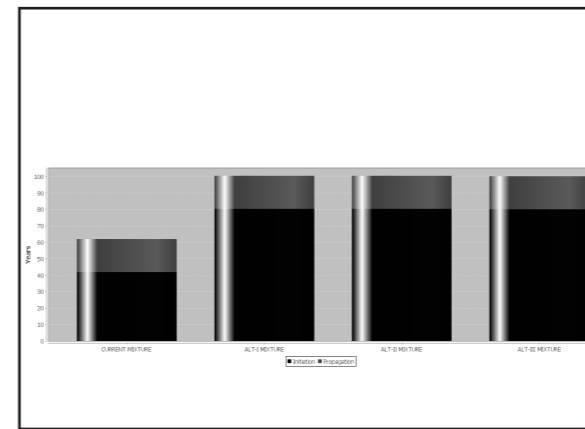
DURABILITY ANALYSIS OF REINFORCED CONCRETE STRUCTURES OF CTW130 RAILWAY NETWORK PROJECT

TYPOLOGY: DURABILITY ANALYSIS
 DATE: 2018
 LOCATION: AL JUBAIL
 AL JUBAIL/SAUDI ARABIA



CTW-130 - JUBAIL NETWORK
 L=26.00m
 RAHMEN BRIDGE TYPE 3 PIER

The durability analyses were performed for the precast box girders, buried or lying on the soil reinforced structures and piles within CTW130 project. Within the scope of this work, concrete recipes to be used in construction and chloride ion, temperature, distance from sea or interaction with the sea, ground chemical parameters were modeled via Life-365™ software. According to this modeling, the chloride diffusion rates of the structures and the periods in which the reinforcements have lost their service life were calculated. Concrete mixtures, additives and reinforcement type selections had been made in order to provide a service life of at least 100 years. A report containing these analyzes and recommendations was prepared.



LOCAMAHAL VELIEFENDI RESIDENCE INFRASTRUCTURE PROJECTS

TPOLOGY: MASS HOUSING INFRASTRUCTURE PROJECT

DATE: 2018

LOCATION: ZEYTINBURNU

ISTANBUL / TURKEY



Preparation of infrastructure projects of Kiptaş Locamahal Veliefendi residences consist of preparation of wastewater, stormwater, drinking water and natural gas final designs and getting approval of the relevant administrations. According to the mechanical projects of the houses, directing the wastewater outlets to the existing network, directing the drainage of the roof and the surface rainwater drainage to the receiving environment, providing the point of source from the existing drinking water network and connecting to the site drinking water network and providing the natural gas to fulfil the demands of the site from the existing natural gas network works were done.

EMLAK KONUT BASAKSEHIR HOUSING

TPOLOGY: RESIDENTIAL

DATE: 2014-2016

LOCATION: BASAKSEHIR

ISTANBUL / TURKEY



The Kayabasi Masterplan and then the project, which was implemented in steps on a square basis, adopts a green concept that respects the environment and nature and forms a center of attraction in a rural area. Considering the environmental data, it has a topographical dynamic landscape and a wide recreation potential in the west and social facilities and other settlements in the east. The east-west axis forms the commercial tandem and connects other campuses to recreation.

During this connection, it also describes functions such as commercial, office, maïdan. With this tandem, there is a secondary green axle, which intersects in the form of an upright and arc in the north-south axis. This includes the daily needs of the surrounding squares, commercial, social facilities, and green areas. These two main axes were built around the tandem and the residential areas, which are divided into various sizes, have their own semi-private public areas, inner courtyard, and commercial areas.

*It belongs to architectural coordinator's personel profolio.

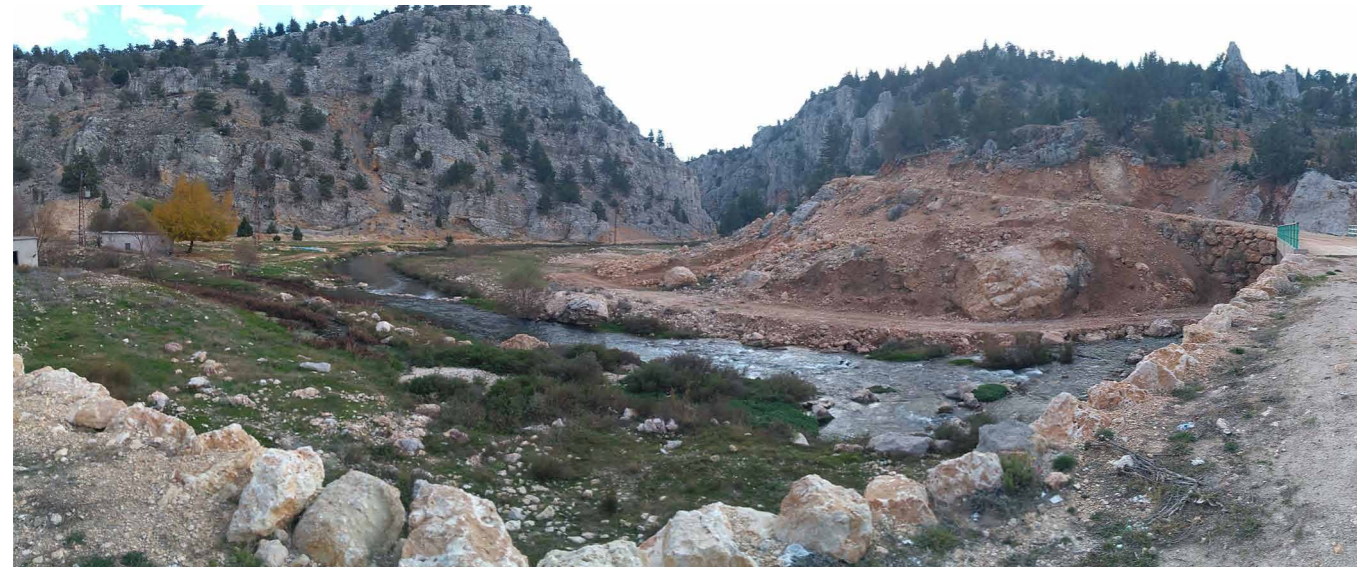
WATER SUPPLY PROJECT OF ERDEMLI AYAS-ESENPINAR-KARAAHMETLI AND BATISANDAL DISTRICTS

TYPOLOGY: WATER SUPPLY DESIGN PROJECT

DATE: 2018

LOCATION: ERDEMLI

MERSIN / TURKEY



Within the scope of the tender which was organized by MESKİ General Directorate; in order to fulfil the drinking water demands of Mersin/Erdemli District, Ayas, Esenpınar, Karahmetli and Batisandal Neighbourhoods until year of 2065; 86 km transmission line, 340 km network line, scada, MV energy supply, power transmission lines, water intake structure, water reservoir architectural, structural, mechanical and electrical final designs, the approximate cost and tender documents for the construction tender were prepared.

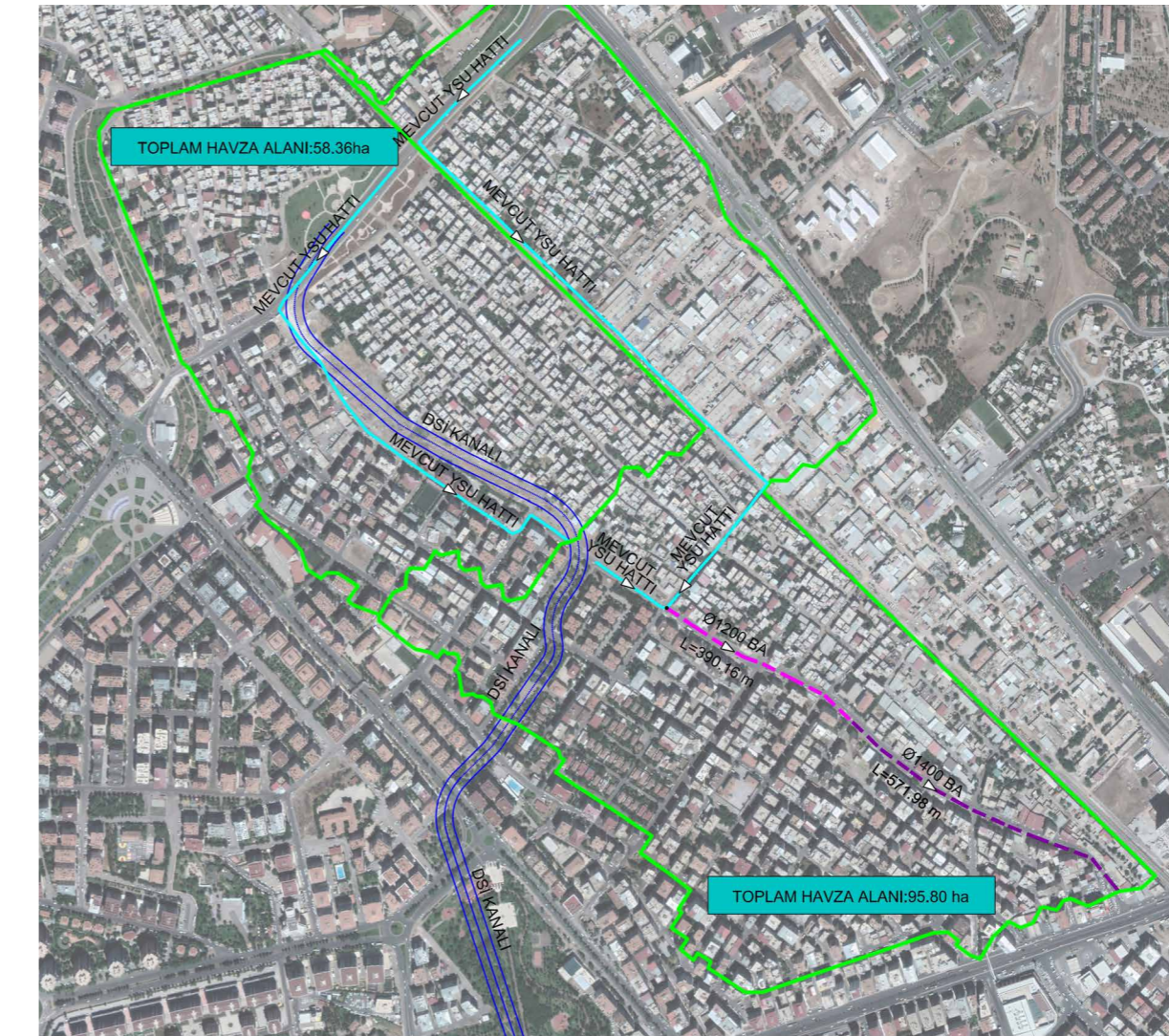
STORMWATER COLLECTOR DESIGN PROJECT IN THE CENTER OF DIYARBAKIR

TYPOLOGY: MUNICIPAL INFRASTRUCTURE PROJECT

DATE: 2018

LOCATION: KAYAPINAR

DIYARBAKIR / TURKEY



Within the scope of the tender which was organized by DISKİ General Directorate, the drainage basin of Huzurevleri District was defined and the existing storm drainage collectors were verified. A new drainage system were designed so that the existing pipeline cannot carry the rainwater coming from the drainage basin. In summary, stormwater final designs, engineering structures and approximate cost studies were carried out.



“

Design starts with ability of simple thinking.

”

PRIMARY EDUCATION SCHOOL DESIGN IN AFRICA

TYPOLOGY: EDUCATIONAL
 DATE: 2017
 LOCATION: SENEGAL
 SALLY / SENEGAL



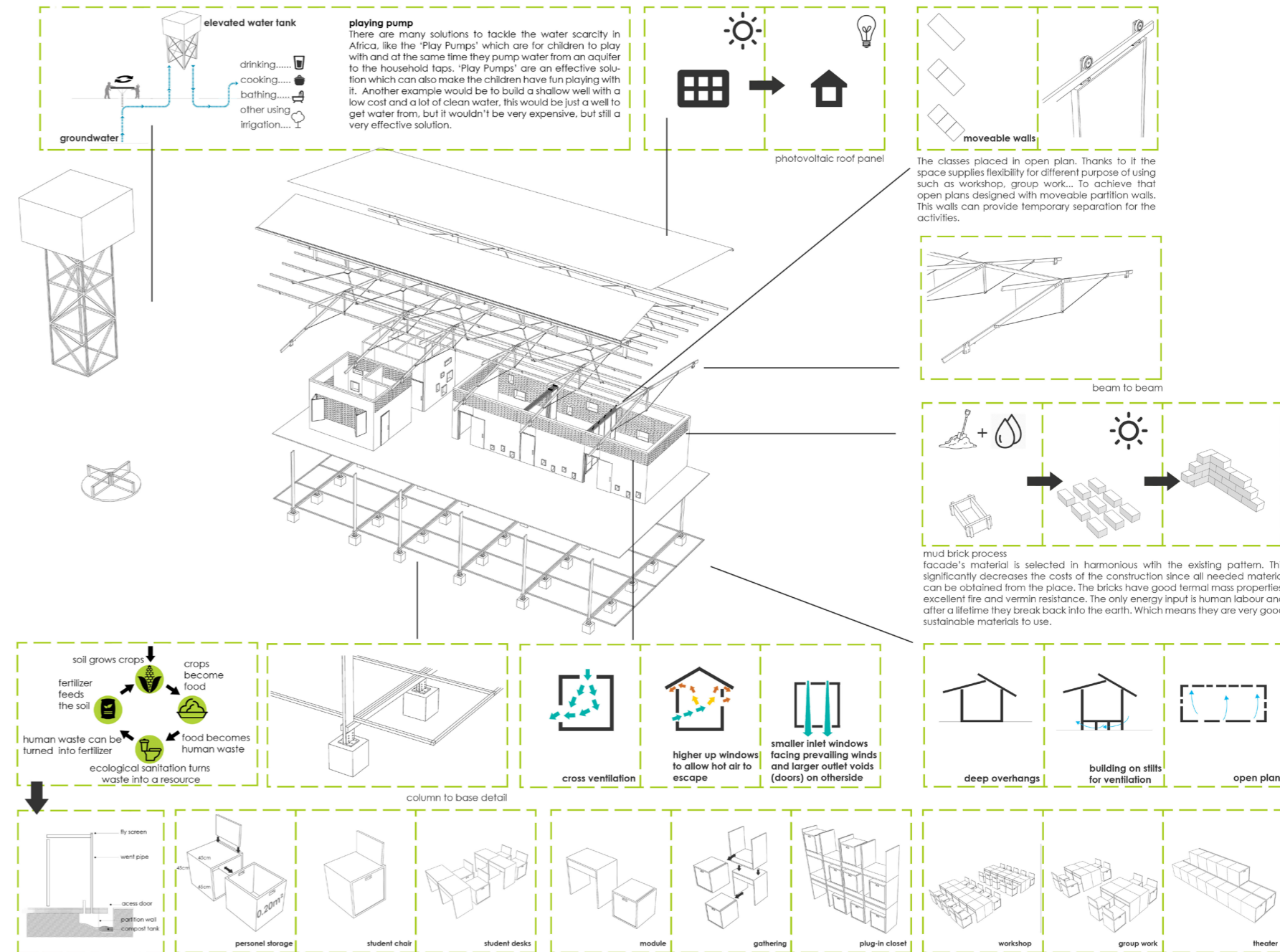
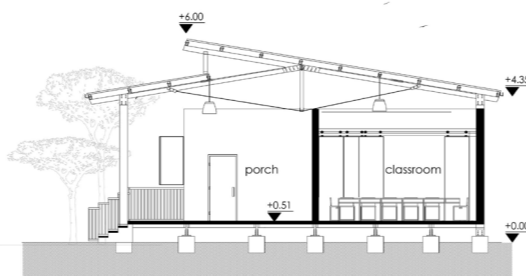
In Africa, as well as the rest of the world, new materials and construction methods are rapidly replacing with conservative methods. The new methods are seen as “civilized” and a reflection of affluence. traditional materials and construction techniques have implications of being substandard or “primitive”. So it seems there is a conflict between them. Therefore, before starting to design, it is more important that focusing on culture.

“Not a single word can live without it’s own literature”

Working on the component of architecture in Africa is the goal of this project. Second one is demonstrate that traditional materials and techniques. using of conservative techniques and material should be encouraged. Thanks to it Africa remains as original. By using materials which are native products of area, will reduce the use of more expensive materials. This reduces the expenses of project. Also, vernacular materials are the part of native. They are also forms of experience. The question is raised: if a system works as well enough, why should it be changed bu outside influences. If there ise a better way to do it, then it may consider to using new materials with traditional ones and techniques. It looks like making a graft. As you need two plant to do it, Africa has supplied the scion. Still there will be physical weak points. So the field school design trying to handle with these weakness and articulated with vernacular architecture as well as it can.

In traditional Africa , architecture is social fact.. The building process just happens.

Francis Kere



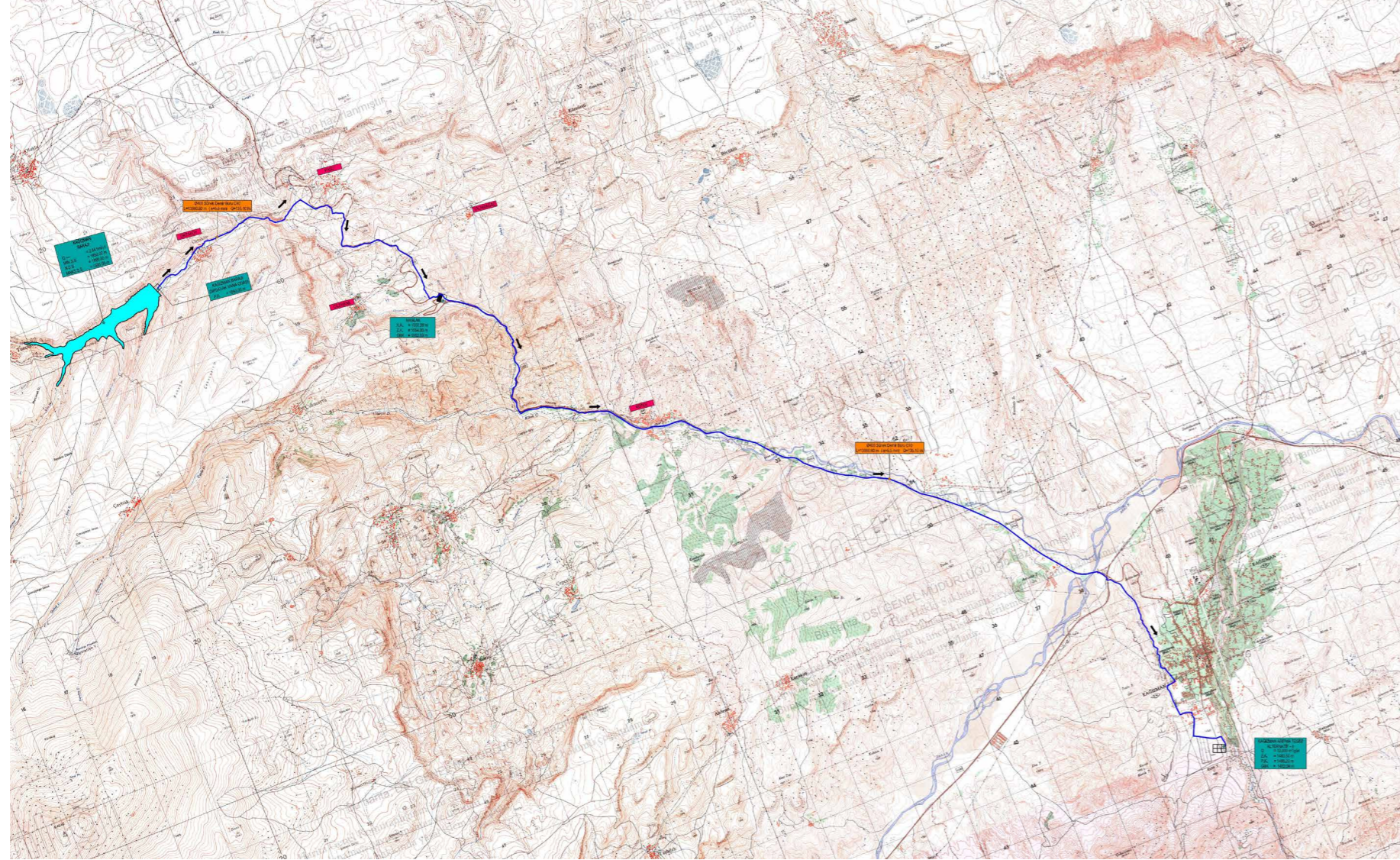
WATER SUPPLY DESIGN PROJECT OF KAGIZMAN

TYPOLOGY: WATER SUPPLY DESIGN PROJECT

DATE: 2018

LOCATION: KAGIZMAN

KARS / TURKEY



Within the scope of the tender which was organized by the 24th Regional Directorate of State Hydraulic Works (DSI), raw water gathered with the water intake structure which was planned in the Kagizman Dam, to be treated in the planned drinking water treatment plant and will be delivered to the existing reservoir in the Kagizman District Center via a 30 km transmission line. In summary; water intake structure, transmission lines, engineering structures and drinking water treatment plant final designs, approximate cost and tender documents for the construction tender were prepared.

HOUSING PROJECT IN NIGDE

TYPOLOGY: RESIDENTIAL

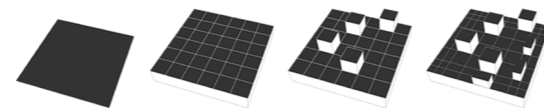
DATE: 2016

LOCATION: NIGDE

NIGDE / TURKEY



Rational set up of this project has simple architectural design language. It's spatial wealth and relations with environment, contributes positively to city life. In this project, it keeps in view that, structures construction placement decisions, rates of mass, relations with streets, open space and structure balances, internal organizations, relations with city centre.



In this project, buildings located on the aerial geometry and sustains the city alignment. They are also located to not interrupted their view. In this compound, buildings don't become ghettos which are isolated from city. Commercial areas, which are located in front of the Atatürk Boulevard, invite the ground level to citizens. Internal space of this area describes large courtyard. It contains some social and sportive activity areas. However it builds resident and confidential life of it's own.

*It belongs to architectural coordinator's personel portfolio.

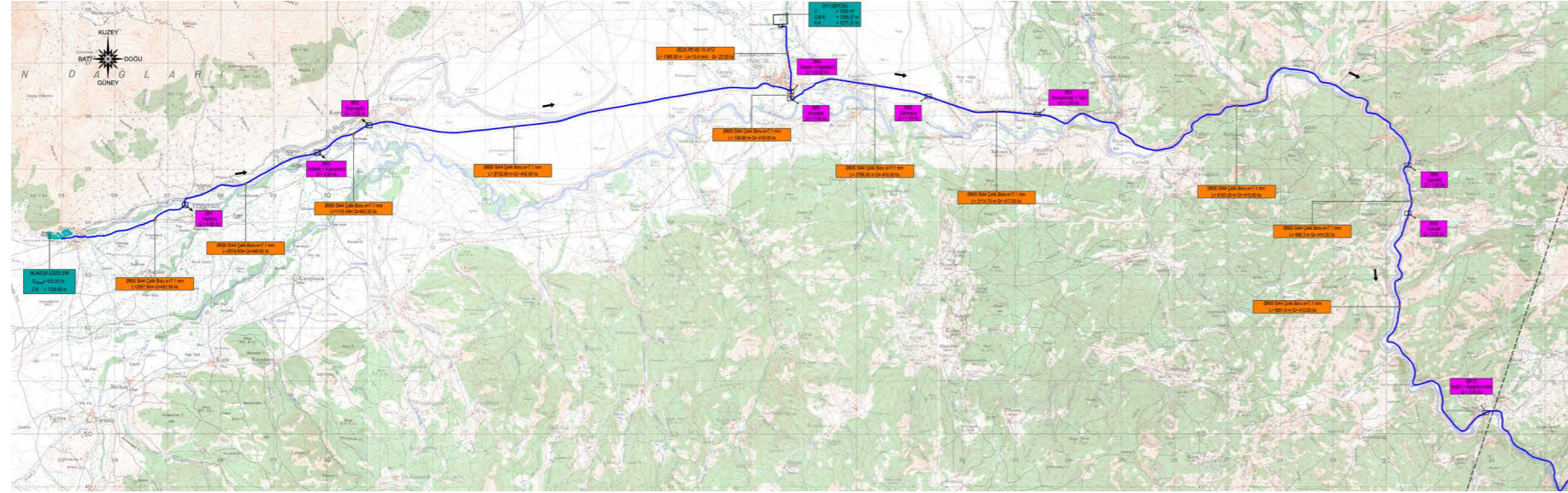
WATER SUPPLY DESIGN PROJECT OF TUNCELİ

TPOLOGY: WATER SUPPLY DESIGN PROJECT

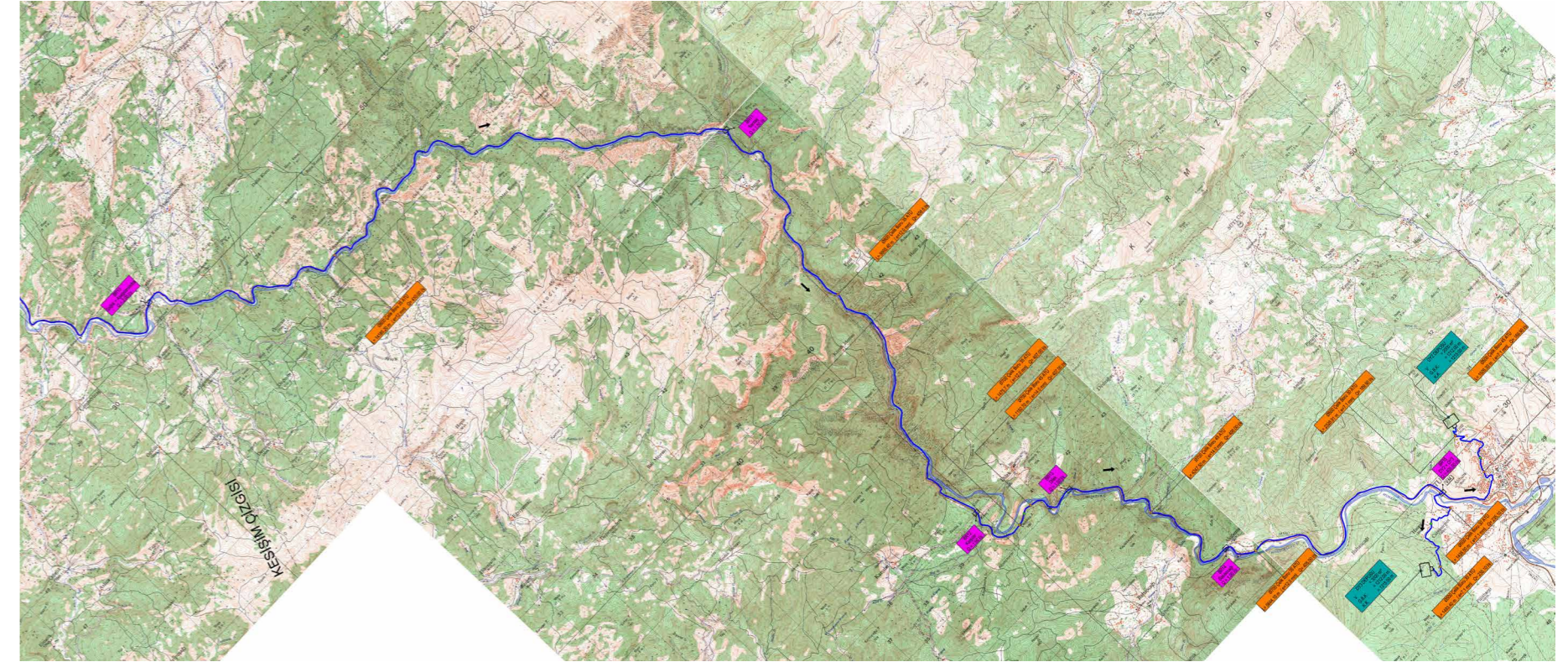
DATE: 2018

LOCATION: CITY CENTER

TUNCELİ / TURKEY



Within the scope of the tender which was organized by the General Directorate of State Hydraulic Works, the raw water was gathered with the water intake structure which was planned on the Munzur Resources located in Ovacık, will be transferred to the existing and planned reservoirs in Tunceli City Center via approximately 100 km pipeline. In summary; the approximate cost and tender documents for the water intake structure, transmission lines and engineering structures final designs and construction tender were prepared.



TECHNOPARK CONCEPT PROJECT IN OSMANIYE

TPOLOGY: TECHNOPARK
 DATE: 2018
 LOCATION: OSMANIYE
 OSMANIYE / TURKEY



In this project indoor and outdoor spaces has designed to contribute emergencing new ideas. Public areas provide an environment for coincidental encounterings, flexible usings. They also contribute to progressing communication between the users. And yet it cares strenghten the social connections.

Functionality
 Satisfying needs, balanced mix using

Collectivity and Focal Point
 In this project inviting areas designed and their spreadings to outdoor space maximized the usage. Outdoor spaces provides benefit from people to each other from different professions thanks to getting them together. Thus multi-disciplinary area has provided for new ideas and attempts.

Flexibility
 This project has flexible design approach that can adapt new requirements in future.

Human Scale
 Users necessity considered while organizing this area at first. Thus pedestrian denstiy, designing public areas prioritized.



“

So, verily, with every difficulty, there is relief...

”



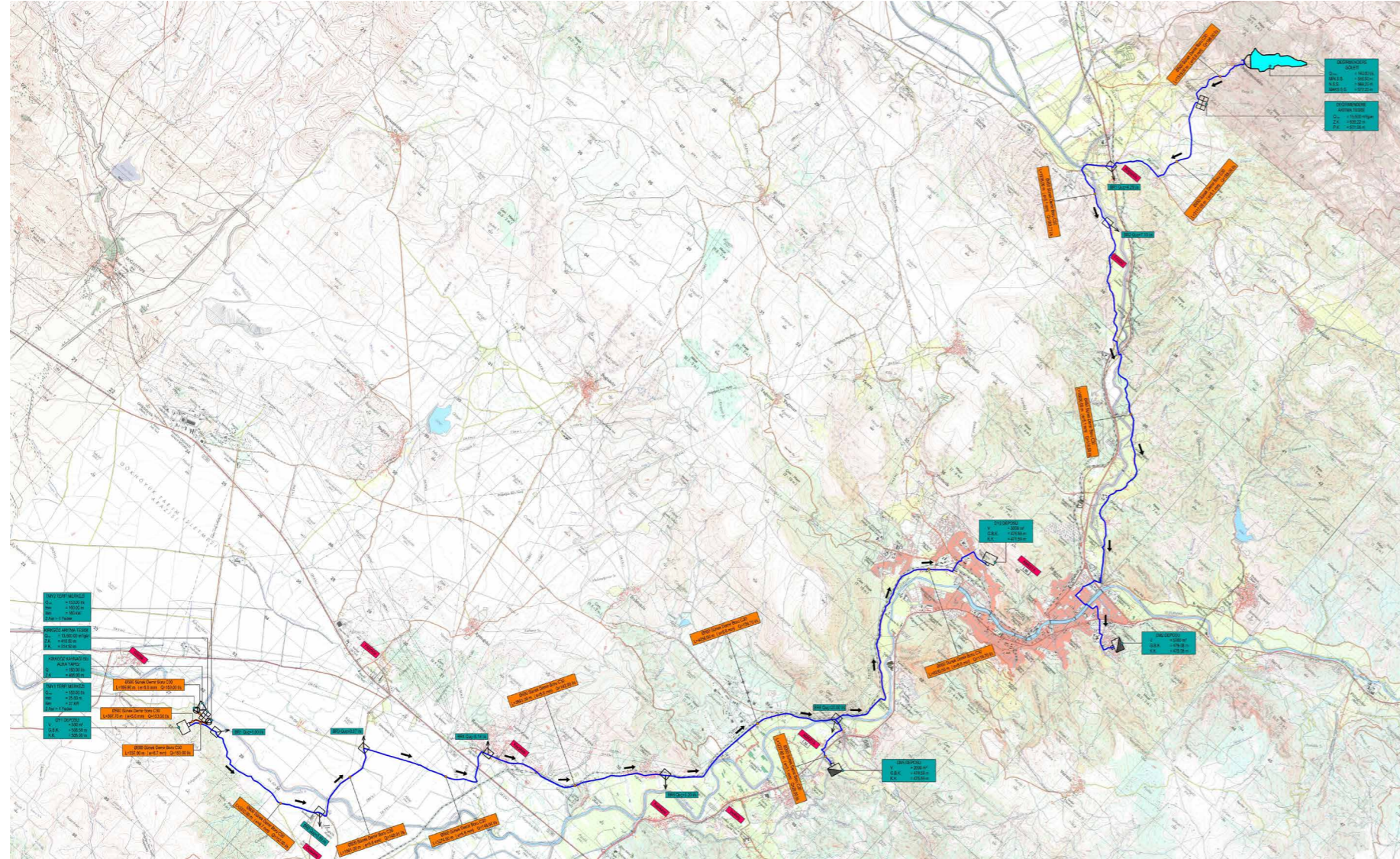
WATER SUPPLY DESIGN PROJECT OF AMASYA

TYPOLOGY: WATER SUPPLY DESIGN PROJECT

DATE: 2018

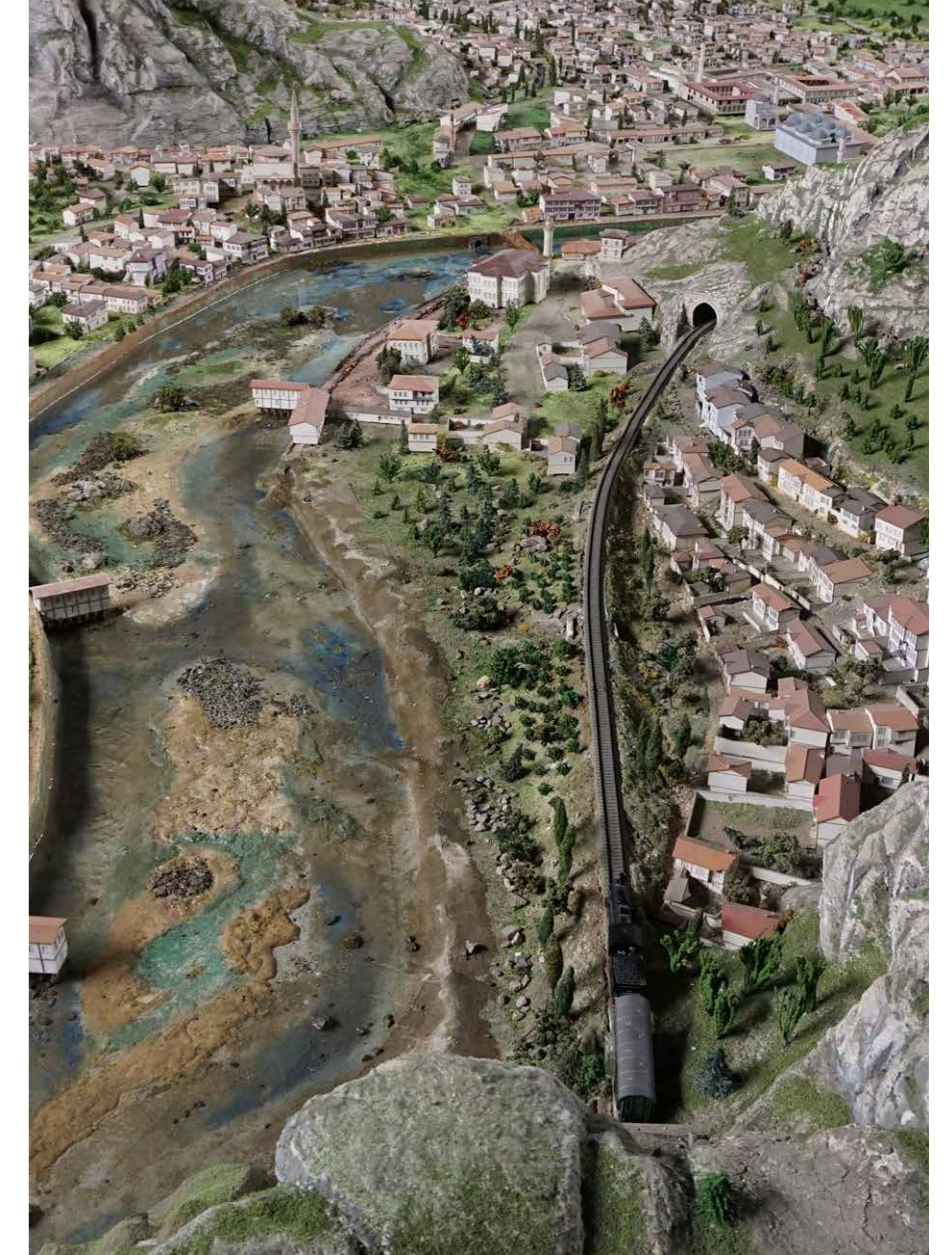
LOCATION: CITY CENTER

AMASYA / TURKEY



Within the scope of the tender which was organized by DSI 7th Region, preparation of transmission line projects to fulfil the drinking water requirements of Amasya Merkez District until year of 2055. Within the scope of work; water was supplied from two different points. Değirmendere Pond and Kirkgöz Resources are the water supply points of this project. The raw water, which is taken from Değirmendere Pond, after being treated, will be transferred to the existing Kirazlıdere Reservoir. Kirkgöz Resources is the water supply point which consist of many large and small aquifers. A special water intake structure was designed to collect these aquifers in a single point and isolate them from the creek. The collected raw water will be transferred to the planned treatment plant with the pressurized line. The treated drinking water will also be transferred to the balancing tank with the pressurized line and then to the 5000 m³ planned Hizirpasa Reservoir via by gravity.

In summary; 2 conventional package treatment plants, 2 reservoirs, 2 pumping stations, 1 water intake structure, 42 km transmission line and related engineering structures, bridge and creek transition details, expropriation plans, approximate cost and tender documents were prepared.



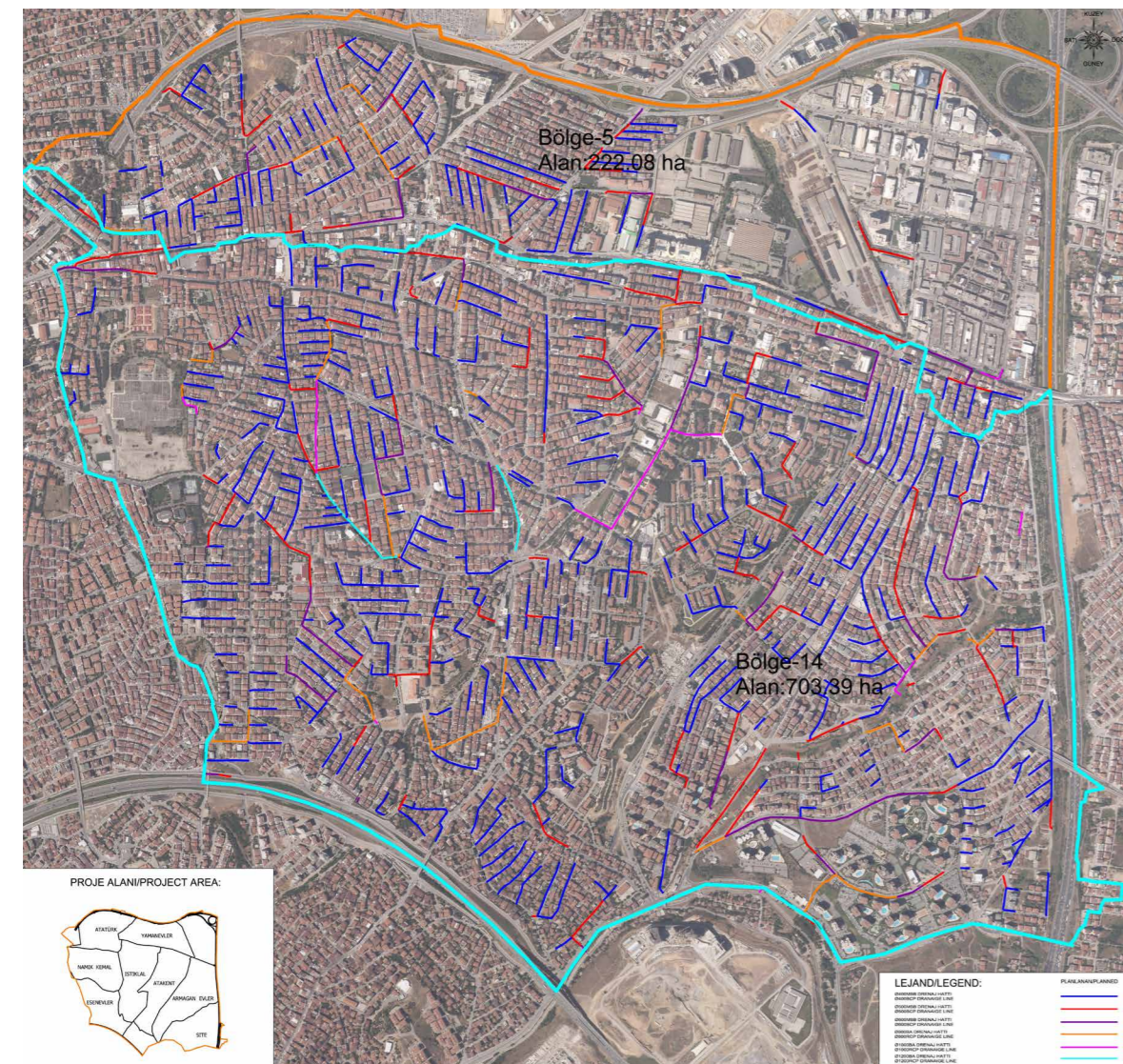
WATER SUPPLY DESIGN PROJECT OF UMRANIYE

TYPOLOGY: STORMWATER WATERSHED PLANNING

DATE: 2018

LOCATION: UMRANIYE

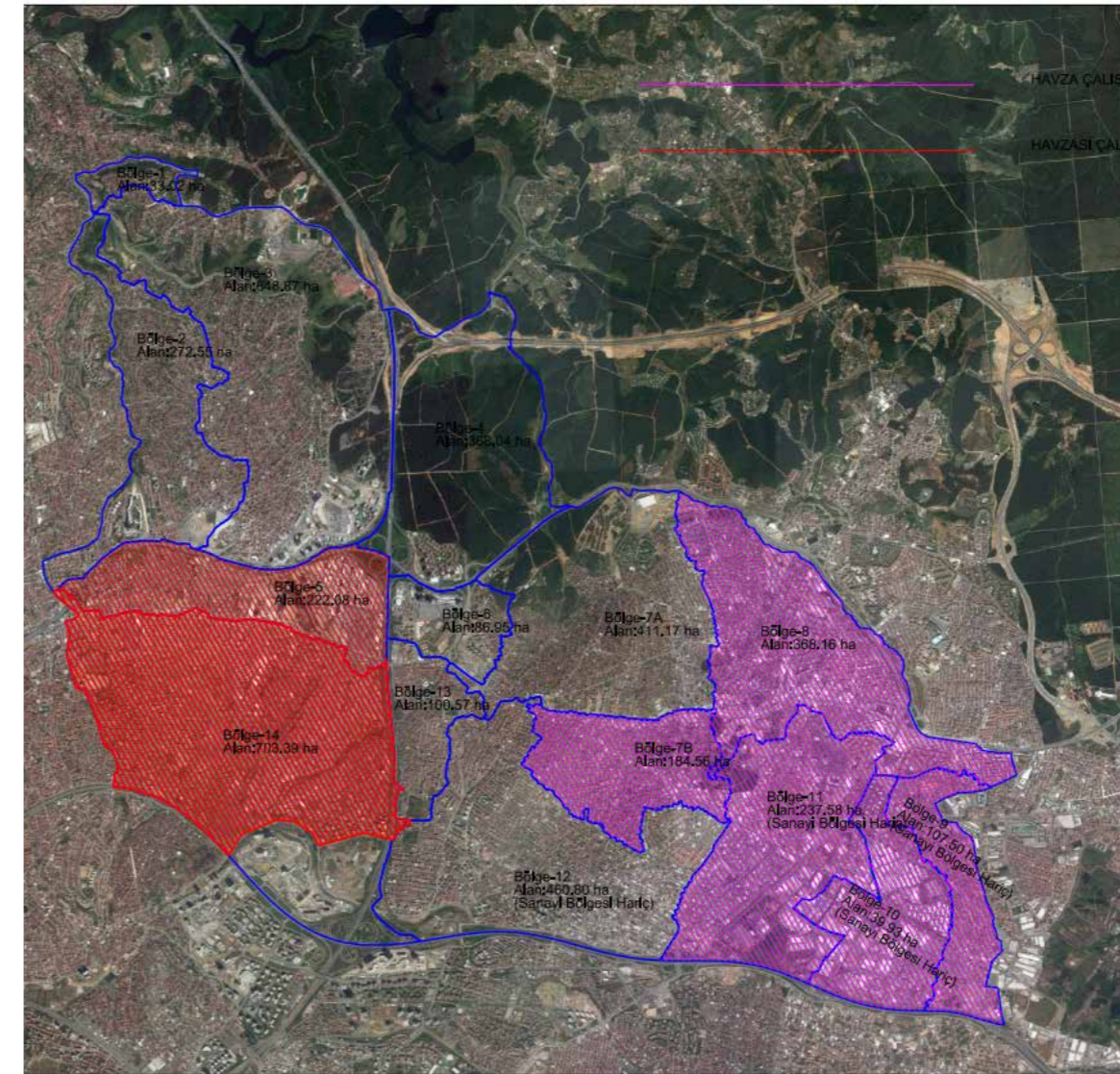
ISTANBUL / TURKEY



Within the scope of the tender which was organized by the Directorate of Technical Works of Umraniye Municipality; flood assessment in two sub-basins in Umraniye District, determination and detection of existing facilities and preparation of stormwater drainage projects at necessary points.

Stormwater drainage basins were determined in Umraniye central neighborhoods. Total drainage area is approximately 800 ha. All existing stormwater lines within the subject drainage area were detected and identified in the field. According to the changing climatic conditions, the capacity was investigated and the insufficient ones were determined. In addition, where more deep research required, more precise determinations were made by camera investigation.

In the basin, a re-planning was made in places with no stormwater drainage lines and inadequate capacity. In total, a new 65 km drainage system was integrated into the existing system. In addition to basin analysis and new planning, approximate cost and tender documents were prepared.



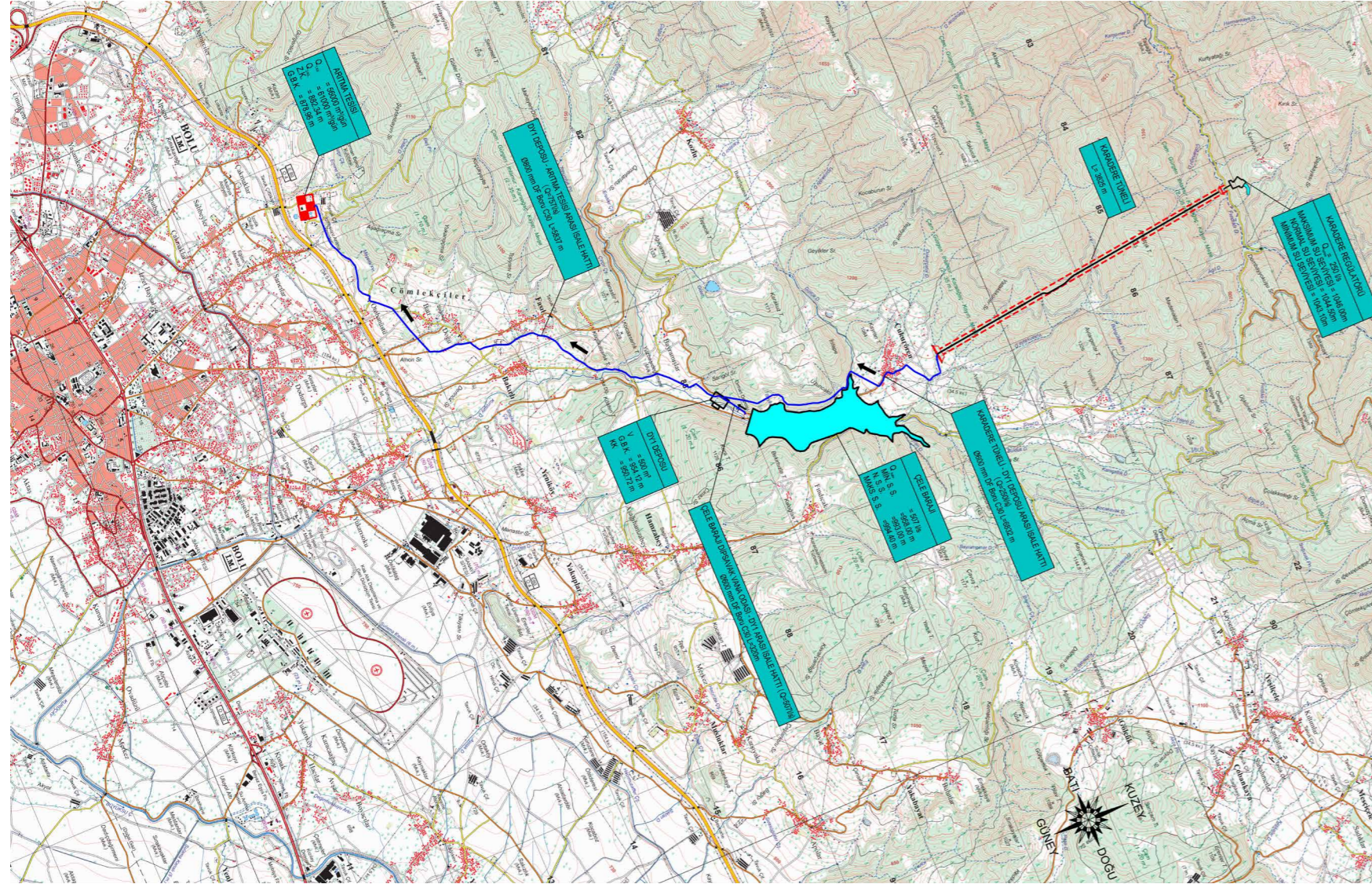
WATER SUPPLY DESIGN PROJECT BETWEEN THE KARADERE TUNNEL AND THE TREATMENT PLANT

TYPOLOGY: WATER SUPPLY DESIGN PROJECT

DATE: 2018

LOCATION: CITY CENTER

BOLU / TURKEY



Within the scope of the tender which was organized by DSI 5th Regional Directorate, the raw water was taken from Karadere Regulator will be combined with the raw water which was taken from the planned Cele Dam and will be delivered to the existing drinking water treatment plant in Bolu Merkez via 13.6 km pipeline. In summary; approximate cost and tender documents were prepared for the final design and construction tender of the transmission lines and engineering structures.



PREPARATION VARIOUS DESIGN PROJECTS ON FOUR DIFFERENT STREETS IN SISLI ACCORDING TO THE MASTER PLAN

TPOLOGY: SUPERSTRUCTURE DESIGNS

DATE: 2018

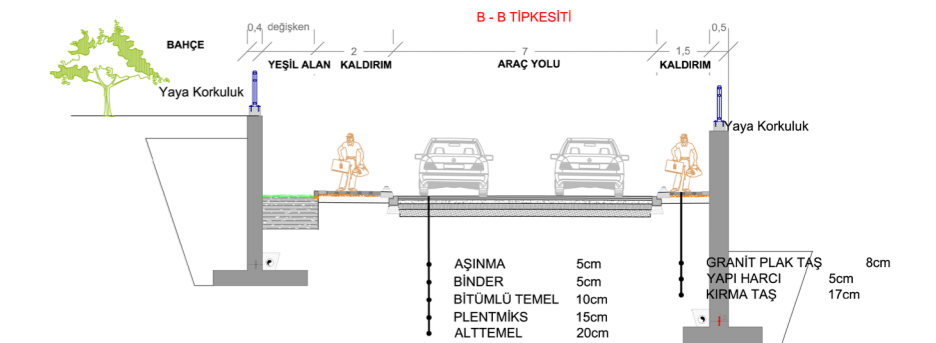
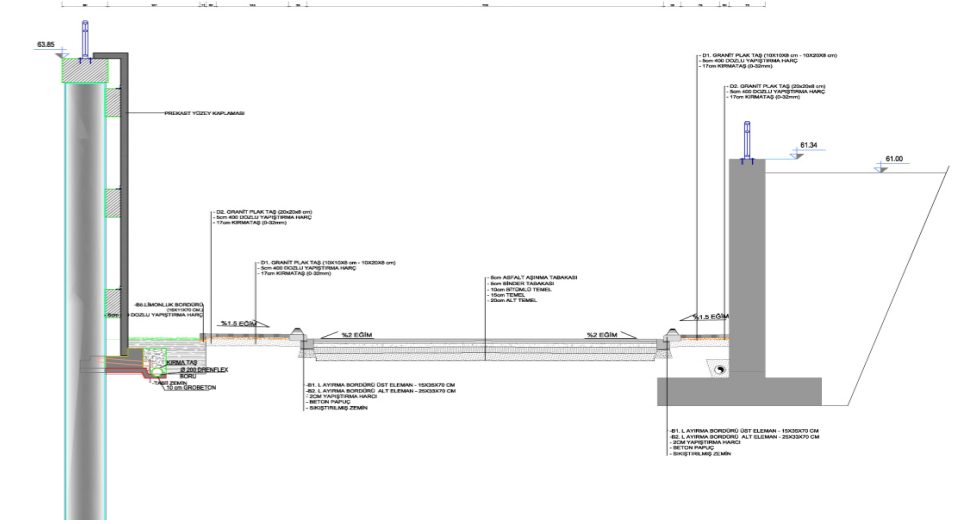
LOCATION: SISLI

ISTANBUL / TURKEY



Within the scope of the tender which was organized by the Directorate of Technical Works, Sisli Municipality. It is the preparation of road projects, engineering structures and infrastructure projects of 4 streets which are located within the borders of Sisli District and which are closed to traffic for different reasons.

In the scope of the work, the current situation of each street was determined. The structure and geometrical features of each street were redesigned according to the master plan. In the streets, permanent revetment systems were planned which are necessary for static and security issue. Road projects were prepared for all streets, urban design projects were prepared for all streets, infrastructure elements of all streets were protected and displaced or redesign if it is necessary. In addition to all plans and projects, approximate cost and tender documents were prepared.



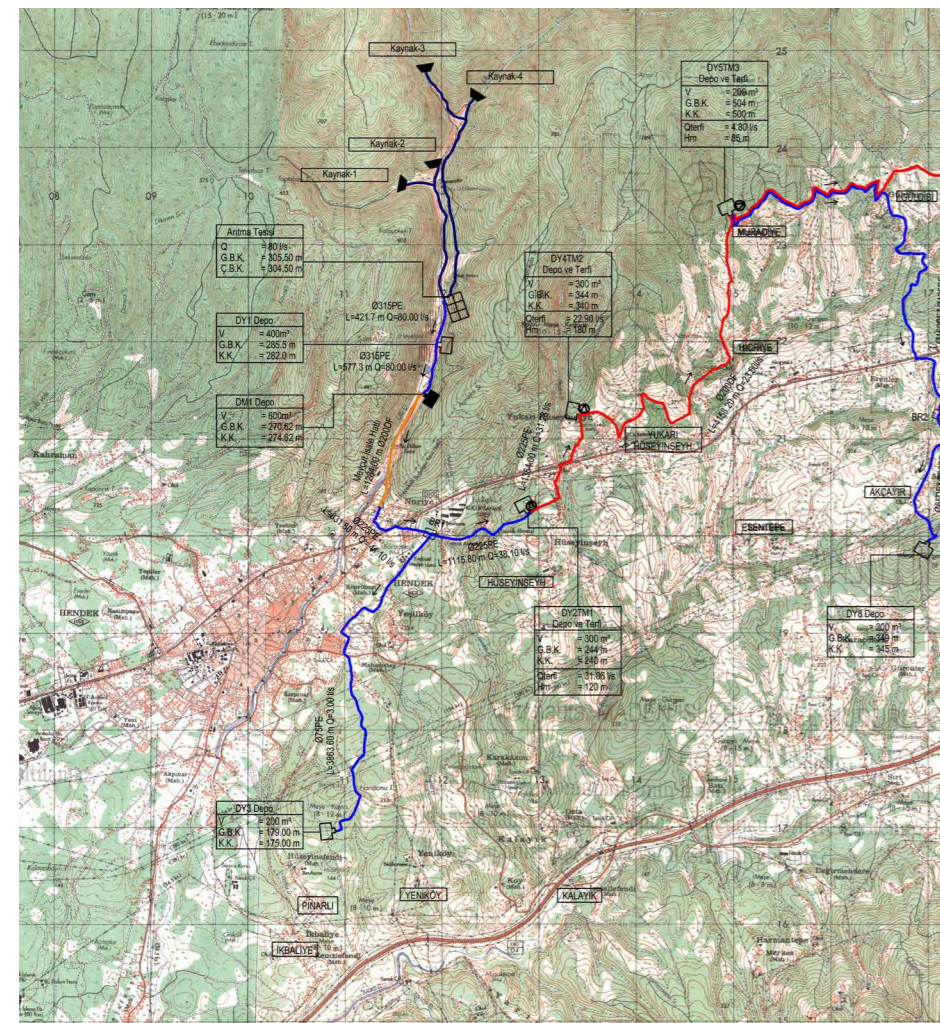
WATER SUPPLY NETWORK DESIGN PROJECT OF ULUDERE

TYPOLOGY: WATER SUPPLY DESIGN PROJECT

DATE: 2018

LOCATION: HENDEK

SAKARYA / TURKEY



Within the scope of the tender which was organized by Sakarya Water and Sewerage Administration, preparation of transmission line and network projects in order to fulfil the drinking water needs of various neighborhoods connected to Hendek from Uludere Resources until year of 2055.

In order to be able to feed some of the districts of Hendek District and its connected areas, raw water will be transferred to the planned treatment facility by gravity from Uludere Resources. The treated drinking water will be transferred to the planned or existing reservoirs at the relevant points according to the pressure zoning area. Pumping stations or booster systems were designed for parts that which cannot be transferred by gravity. In order to distribute the water which was provided, the network system planning was made to all relevant regions.

Summary;

- 41 km transmission lines
- 145 km network lines
- 85 pcs. engineering structures
- 10 pcs. reservoirs
- 5 pcs. pumping stations and boosters.



CONSTRUCTION AND ELECTROMECHANICS OF M1B HALKALI - KIRAZLI METRO LINE

TYPOLOGY: INFRASTRUCTURE DISPLASMENT DESIGN PROJECTS

DATE: 2018

LOCATION: KUCUKCEKMECE - BAGCILAR

ISTANBUL / TURKEY

Within the scope of M1B-Halkalı - Kirazlı Metro Line Construction and Electromechanical Works; for 10 stations; wastewater, stormwater and drinking water displacement projects and connection projects were prepared.



ELECTROMECHANICS OF KMM KABATAS - MECIDIYEKÖY METRO LINE

TYPOLOGY: INFRASTRUCTURE DISPLASMENT DESIGN PROJECTS

DATE: 2018

LOCATION: BESIKTAS - SISLI

ISTANBUL / TURKEY

Within the scope of M7-Kabatas - Mahmutbey Metro Line Construction and Electromechanical Works; for the part of Kabatas - Mecidiyekoy side; wastewater, stormwater and drinking water displacement projects and connection projects were prepared.



ELECTROMECHANICS OF M9 DUDULLU - BOSTANCI METRO LINE

TYPOLOGY: INFRASTRUCTURE DISPLASMENT DESIGN PROJECTS

DATE: 2018

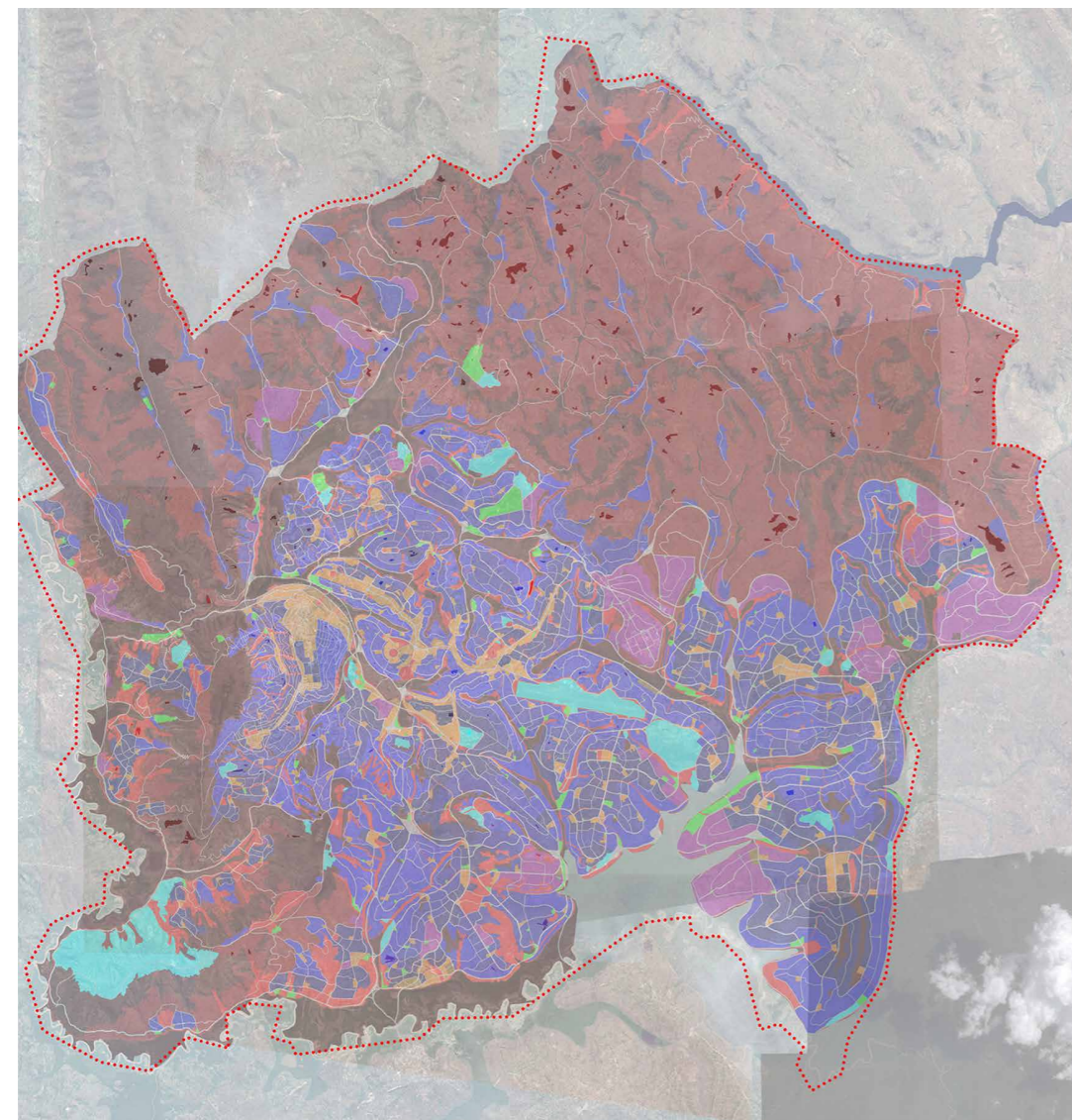
LOCATION: ATASEHIR - KADIKÖY

ISTANBUL / TURKEY

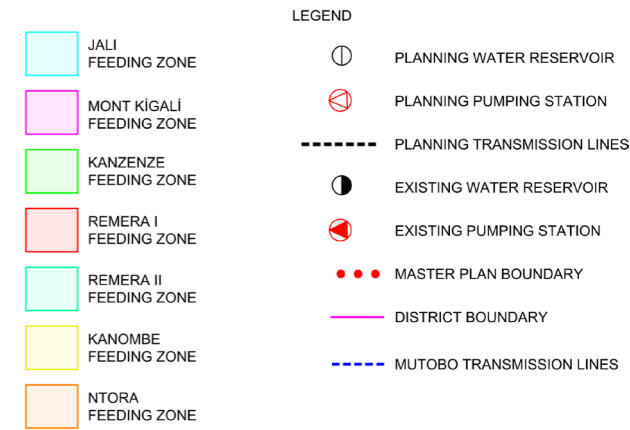
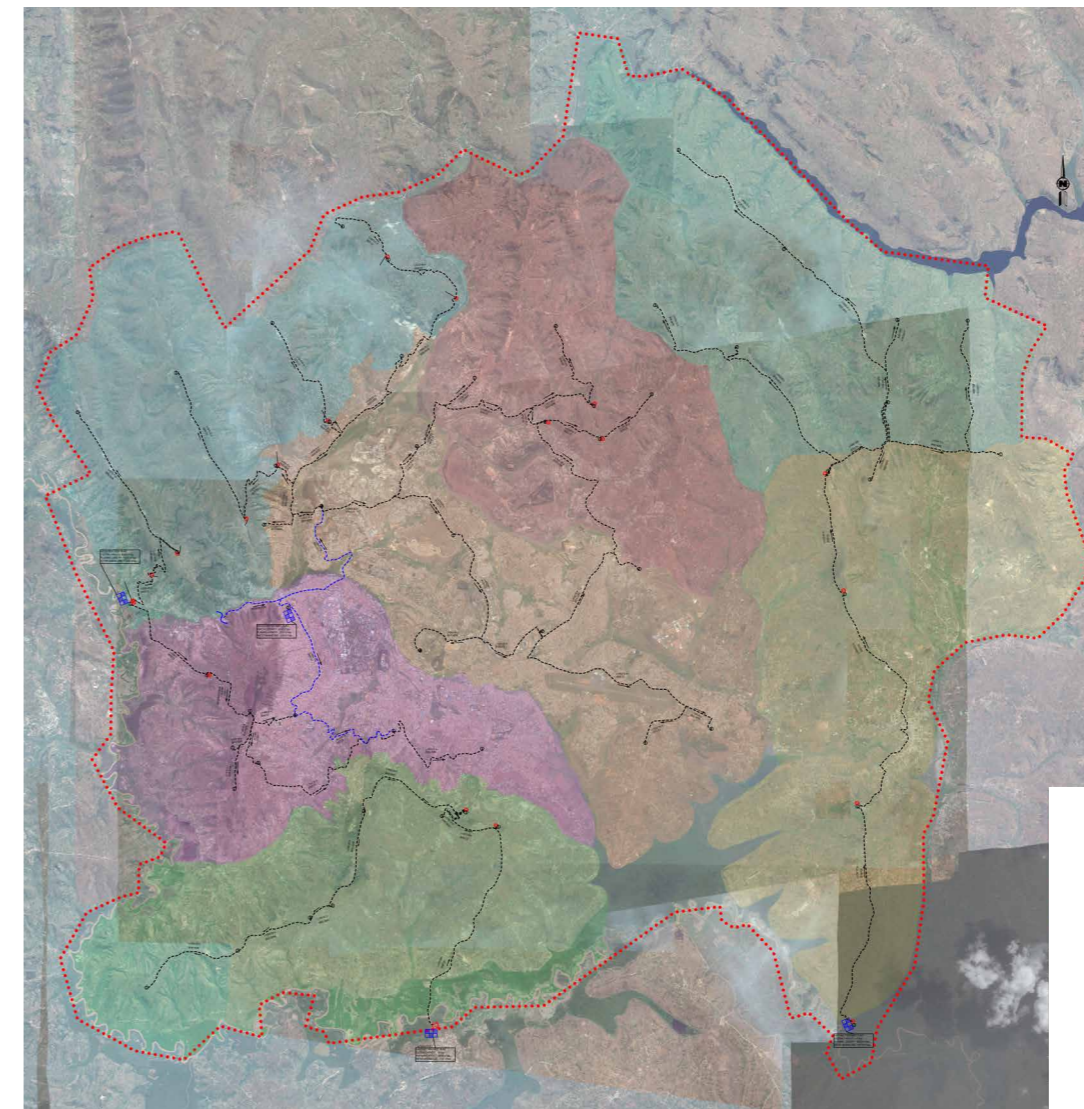
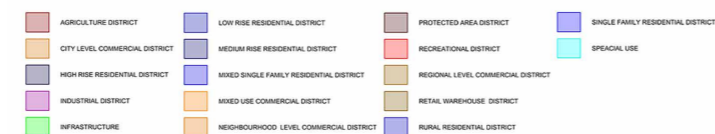
Within the scope of M9-Dudullu - Bostanci Metro Line Construction and Electromechanical Works; for 13 stations; wastewater, stormwater, drinking water and stream restoration displacement projects and connection projects were prepared.

POTABLE WATER MASTER PLAN (2040) OF KIGALI

TYPOLOGY: MASTER PLAN
 DATE: 2017
 LOCATION: CITY CENTER
 KIGALI/RWANDA



Drinking water master plan was prepared for Kigali which is capital of Rwanda in Central Africa. Within the scope of the project, population projections were made according to the development plan of Kigali. Then, the demand for drinking and service water were calculated for year of 2040. For each residential area, industrial area, public area and private areas within the political borders of Kigali, separate arrangements were made and a general situation plan was prepared. Water will be distributed according to this plan. All water supply points and drinking water facilities of Kigali had been identified. Facilities which can be used that were protected and facilities which can not be used that had been redesign or rehabilitated. In order to distribute the drinking water of the entire city, water reservoirs were located at the most suitable points. According to the pressure zones, the planned reservoirs transmission lines and the transmission lines between the reservoirs were planned. With the plan which was prepared in this work, the drinking and service water problem of Kigali will be eliminated until year of 2040.



WATER SUPPLY DESIGN PROJECT OF NZOVE II

TYPOLOGY: WATER SUPPLY DESIGN PROJECT

DATE: 2018

LOCATION: NZOVE

KIGALI/RWANDA



Within the scope of this work, water supply project from the Nyabarongo River, which is a branch of Nile River also passes through the town of Nzove, to feed the some part of Nzove Town, which is in Kigali, capital of Rwanda.

Within the scope of this work; the water intake structure was planned at the suitable point of the Nyabarongo River, which contains high amounts of quartz and silica. With the water intake structure, a special sand trap was planned in order not to incorporate large sediment material into the system. Raw water from the sand trap shall be transferred to the planned treatment plant via pressurized line. The treated drinking water will be transferred to Karama Reservoir and Mont Kigali Reservoir by two - stage pumping stations respectively.

Summary;

Capacity of 105,000 m³/day water intake structure with sand trap and cofferdam.

Capacity of 105,000 m³/day water treatment plant with OFSY filter unit

2 pcs. 2000 m³ reservoirs and 1 pcs. 5000 m³ reservoir

3 pcs pumping stations with capacity of 25 m, 250m and 280 m pumping head capacity.

25 km transmission lines

Administrative building, filter building and chemical warehouse projects were prepared.



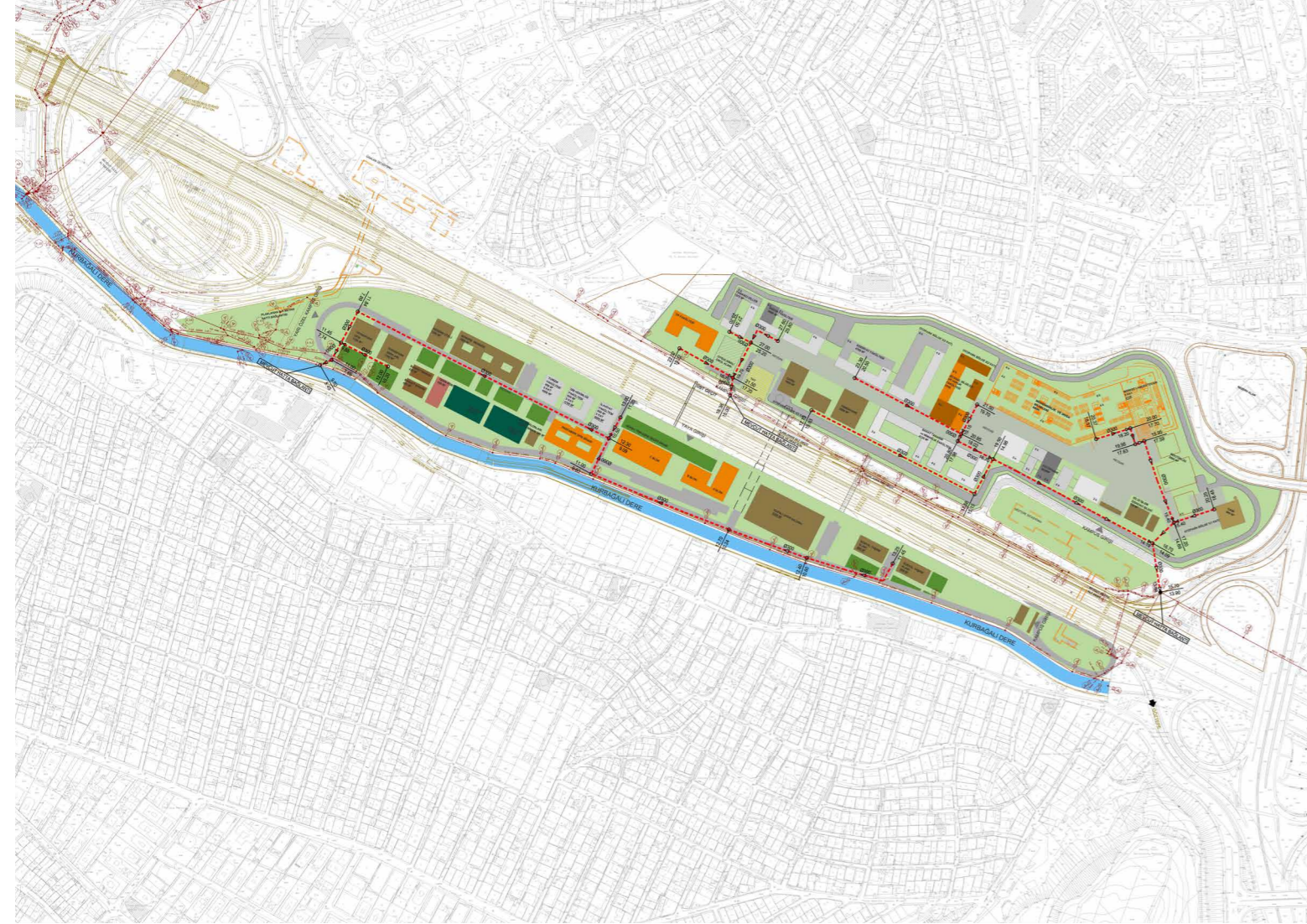
MASTER PLAN OF ISTANBUL MEDENIYET UNIVERSITY

TYPOLOGY: MASTER PLAN

DATE: 2016

LOCATION: KADIKOY

ISTANBUL / TURKEY



Preparing the master plan of infrastructure facilities (wastewater, stormwater, drinking water, fire hydrant, electricity and telecom, natural gas) for Goztepe Campuse of Istanbul Medeniyet University. In the scope of this work, infrastructural facilities, which will be needed in future, were anticipated, necessary capacity calculations and its report was prepared for the future faculties. These infrastructural elements were studied on a macro scale, their feasibility was analyzed, a future road map for construction was made and approximate cost studies were prepared.



CONSULTANCY OF IMPLEMENTATION PROJECTS IN CAPA AND CERRAHPASA CAMPUSES OF ISTANBUL UNIVERSITY

TYPOLOGY: MUNICIPAL INFRASTRUCTURE DESIGN PROJECTS

DATE: 2017

LOCATION: FATİH
ISTANBUL/TURKEY



Within the scope of “Istanbul University, Capa and Cerrahpasa Campus 2nd Stage Implementation Projects Consultancy Services Procurement”, gallery system, wastewater network, stormwater network, drinking water network, electricity and telecom infrastructure, natural gas infrastructure, fire hydrant system and domestic waste, medical waste, recyclable waste and radioactive waste projects were prepared for the Campuses of Capa and Cerrahpasa.

The drinking water requirements of the university were calculated and request for water supply from the relevant administration was made. According to the water supply point, the new feeding system was designed. The wastewater flow rate which will be generated, was calculated and the related network system were designed and taken out of the campus. Rainwater from the roofs and the surface flow was discharged to the receiving environment similar to the wastewater. The electric facility was designed with two feeders for the electricity needs of the university and the university was provided with energy from two different step-down transformer center and was connected to the cogeneration facility. Natural gas demand was calculated and pressure reducing plants were planned for supplying of gas from the related administration. Since the University is also a research hospital; a plan and project planning were carried out for the management of all wastes. All wastes were designed in accordance with the regulations. If it is need to open an extra title for radioactivity; solid and liquid radioactive wastes were prepared separately and as required by the regulations and the necessary projects were prepared with the guidance of TAEK. A gallery system was planned to protect some infrastructure elements (electricity, telecom and fire hydrant lines) planned for the campus. The access roads which are useful to access into the gallery so that necessary operation and maintenance work can be done.

POTABLE WATER NETWORK DESIGN PROJECTS OF ORDU

TYPOLOGY: WATER SUPPLY DESIGN PROJECT

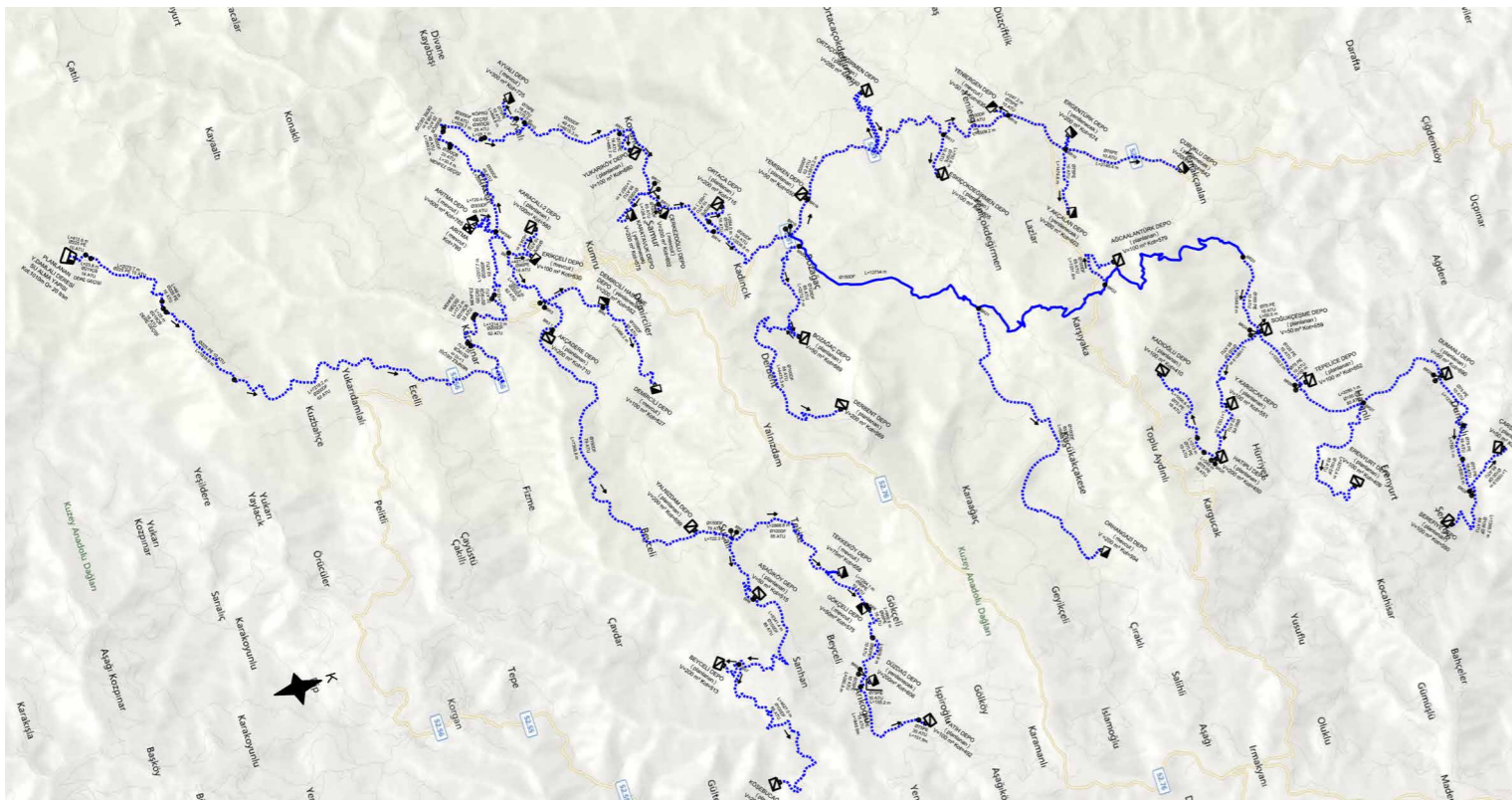
DATE: 2015

LOCATION: KUMRU

ORDU / TURKEY

The establishment of the necessary system for feeding of Ordu Province, Kumru District and its affiliated neighborhoods.

Within the scope of the work, the necessary transmission lines and network lines were designed for the transfer of the water gathered from the Kumru Source to the related places. Since the region has a structure in which the elevations vary greatly with topography, relatively smaller pressure zones were formed and the reservoirs were positioned accordingly. A total of 250 km of feeding system was planned.



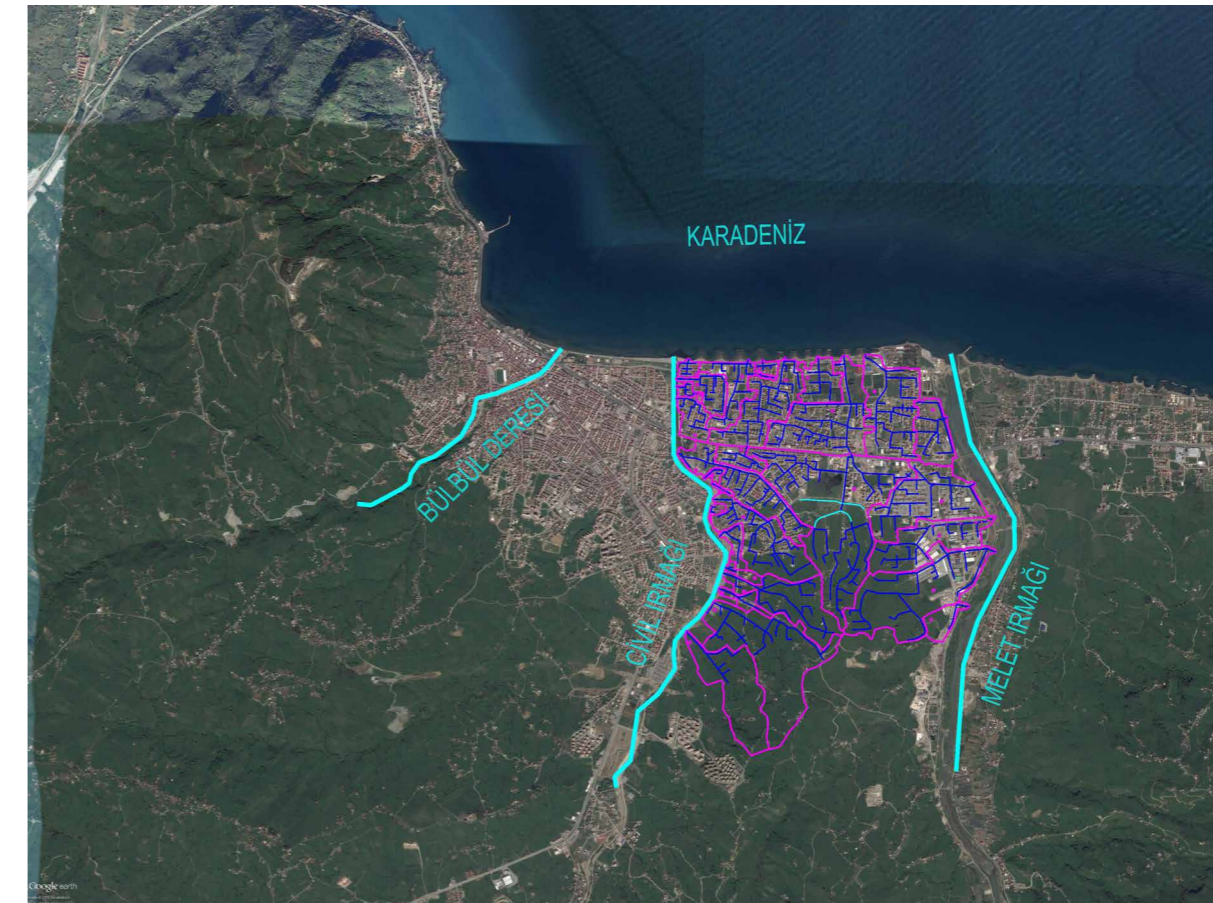
STORMWATER DESIGN PROJECT OF ALTINORDU

TYPOLOGY: STORMWATER DRAINAGE DESIGN PROJECTS

DATE: 2015

LOCATION: ALTINORDU

ORDU / TURKEY



Preparing rainwater drainage projects of the area between the Civil and Melet Rivers of Altınordu District of Ordu.

Within the scope of this work; basin analysis was performed in the residential areas between the two rivers and the drainage basin was prepared. The designated drainage basin was detailed by dividing into the sub basins. The necessary facilities (grids, traps, network and collector lines) were designed to make the drainage of the entire basin, efficiently. In addition to the design works, tender documents and the approximate cost studies for the construction tender were also carried out.

INFRASTRUCTURE DESIGN PROJECT OF BAGYURDU ORGANIZED INDUSTRY ZONE

TPOLOGY: INFRASTRUCTURE DESIGN PROJECTS

DATE: 2015

LOCATION: KEMALPASA

IZMIR / TURKEY



Organized industrial zone 2nd phase (83 ha); planning wastewater, stormwater, drinking water and fire water network lines were the main subject of the work. Within the scope of the project, the designs, tender documents and approximate costs of the related infrastructure elements were prepared in order to fulfil the demands of the business branches which will be operating in the organized industrial zone.



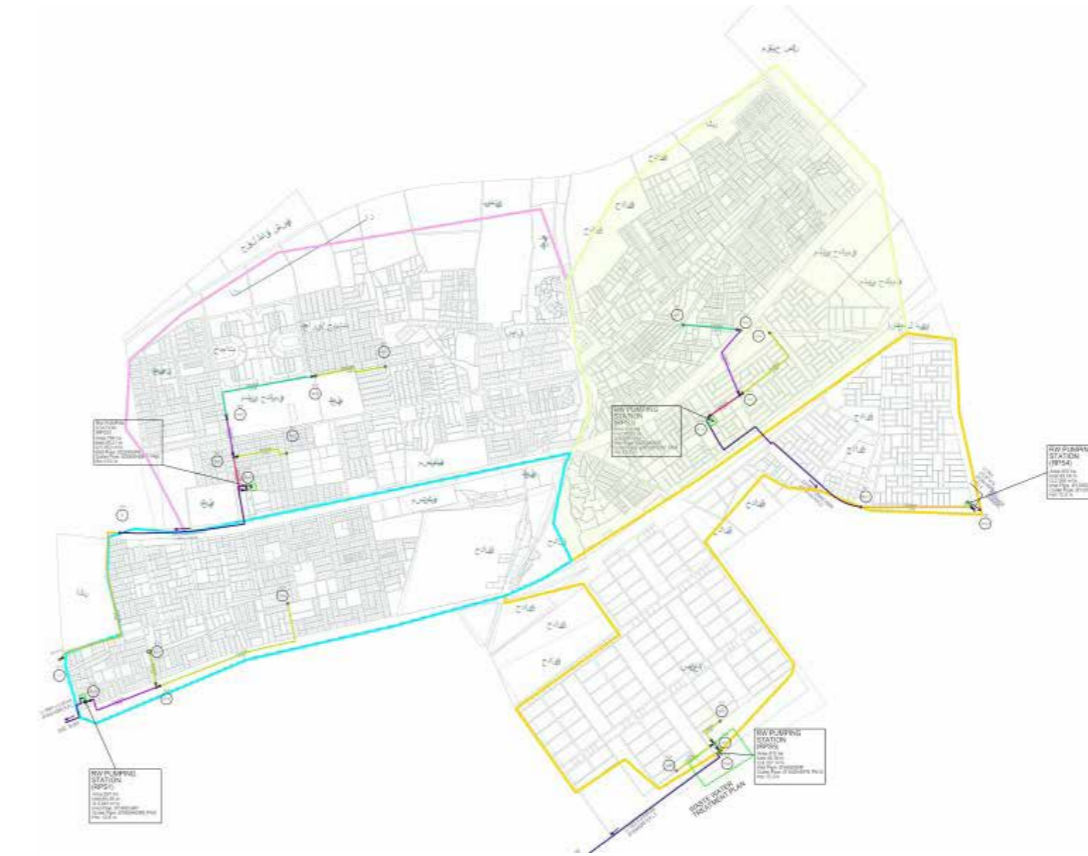
STORMWATER AND WASTEWATER DESIGN PROJECTS OF MIQTADIYAH

TPOLOGY: MUNICIPAL INFRASTRUCTURE DESIGN PROJECT

DATE: 2014

LOCATION: MIQTADIYAH

DIYALA / IRAQ



Preparing the wastewater and stormwater collection and removal projects of Miktadiye Province which is in Diyala. Within the scope of work; the wastewater and stormwater collection basins of Miktadiye were prepared separately. Then receiving environment controls were performed. Wastewater will be discharged to existing treatment plant and rainwater will be discharged to the creek or irrigation channel in the shortest way. The whole planning area was divided into sub-basins and the studies were detailed and their relations with each other were checked. With these controls, it was seen that wastewater and stormwater system can work separately and without interfering with each other. A total area of 2700 ha was investigated; pumping stations, pressurized lines, collectors and network lines were designed.

POTABLE WATER NETWORK DESIGN PROJECTS OF GAGRA

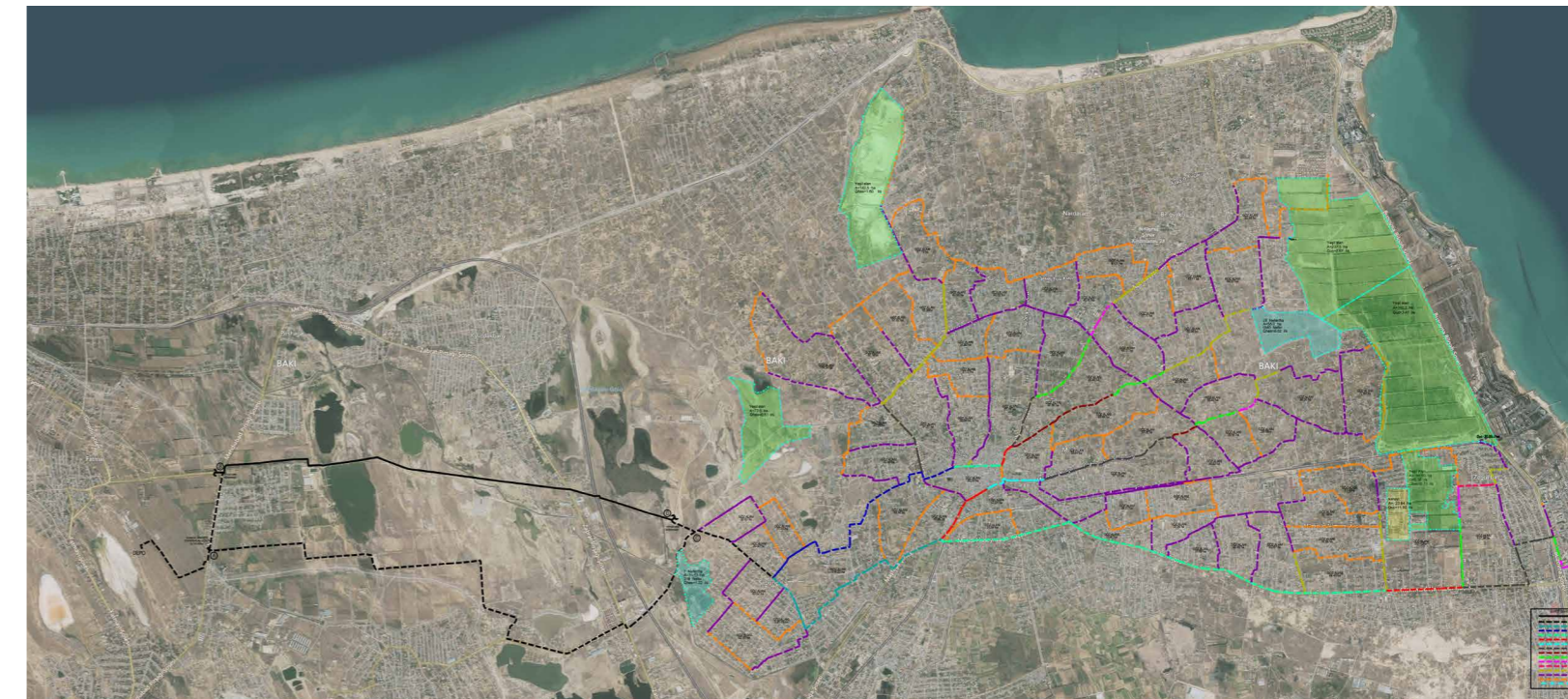
TYPOLOGY: WATER SUPPLY DESIGN PROJECT
 DATE: 2014
 LOCATION: GAGRA
 GAGRA / ABKHAZIA



The scope of the work is improving the drinking water network system of the city of Gagra in the Abkhazia Autonomous Republic. Within the scope of the work, Gagra's existing network system was expanded and subscriber connections were planned in some areas. Due to the prepared project, the feeding of the city of Gagra will be ensured.

POTABLE WATER NETWORK DESIGN PROJECTS OF MASTAGA, NARDARAN, BILGAH AND BUZOVNA TOWNS IN THE ABSHERON PENINSULA

TYPOLOGY: WATER SUPPLY DESIGN PROJECT
 DATE: 2012
 LOCATION: ABSHERON PENINSULA
 BAKU / AZERBAIJAN



Planning the necessary facilities to fulfil the water demands of the relevant residential in the Absheron Peninsula. Within the scope of the project, a transmission line was planned to feed the pressure zone between 45-15 m of the towns from Balahani Reservoir by gravity. And the main feeding structure were formed in the related regions from this transmission line in a certain logical point of view. Finally, network lines were planned to feed all points of this structure. A total of 631 km of feeding system were planned.

DESIGN PROJECTS OF WASTE WATER NETWORK, COLLECTOR AND MICROTUNNEL IN NARDARAN AND BILGAH TOWNS (SHORE SIDE) IN THE ABSHERON PENINSULA

TYPOLOGY: SEWERAGE DESIGN PROJECT

DATE: 2012

LOCATION: ABSHERON PENINSULA

BAKU / AZERBAIJAN

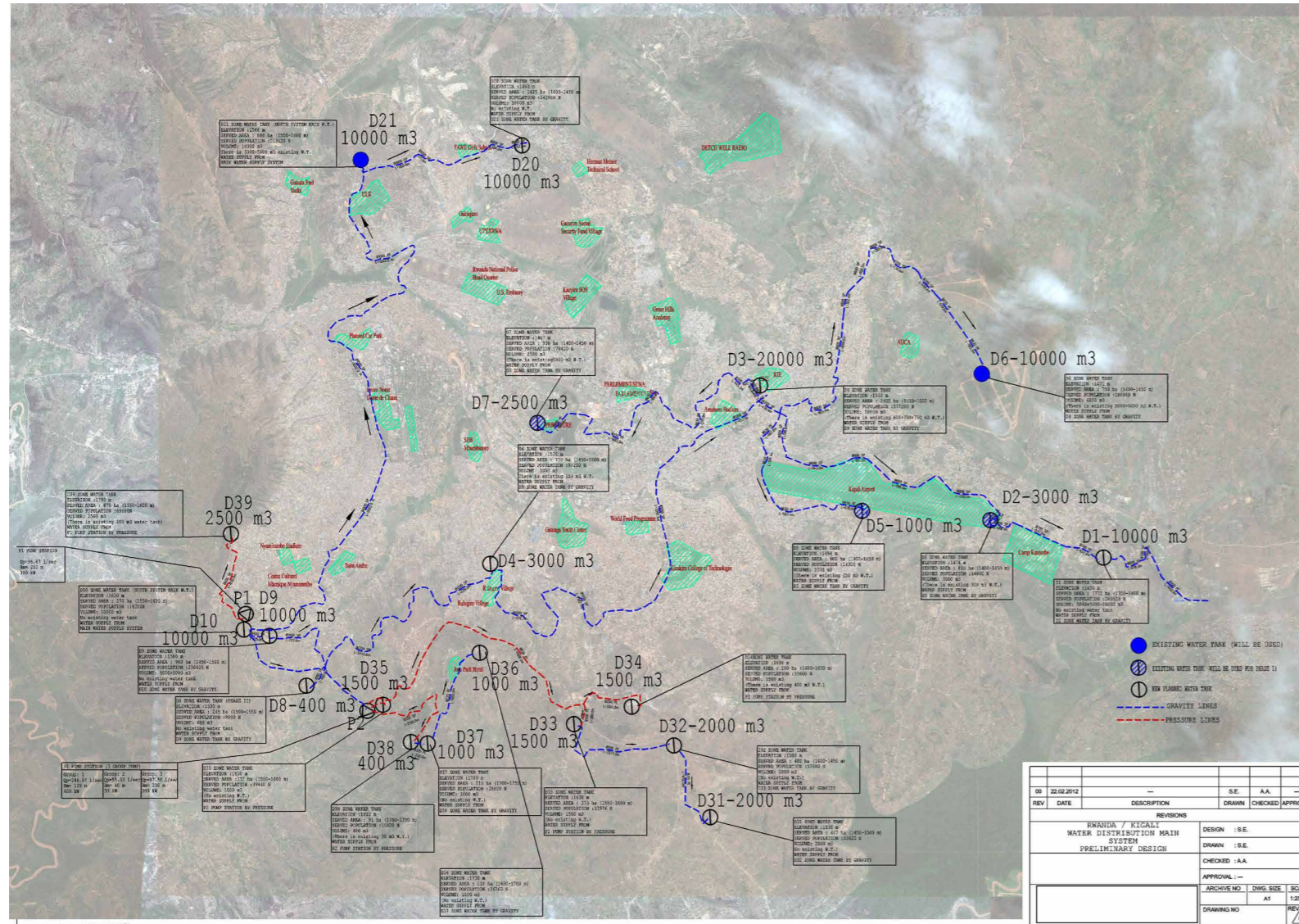


It is the design of the system for the removal of the wastewater of the towns in the Absheron Peninsula. Within the scope of this work; analysis were done for each site in the wastewater collection basin. In addition, regions that will expected to be located in the future were also included in the system. In order to transfer the collected wastewaters to the wastewater treatment plant were determined in the master plan, pumping stations, pressurized lines, collectors, network lines, microtunnel projects and expropriation plans were prepared. A total of 178 km of collector system was planned.

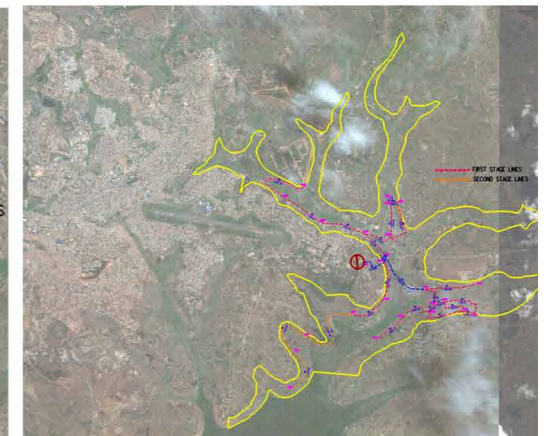
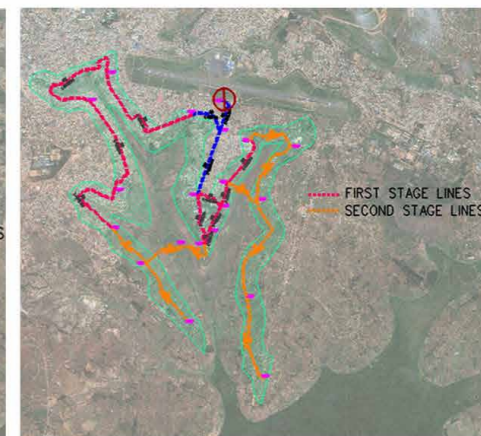
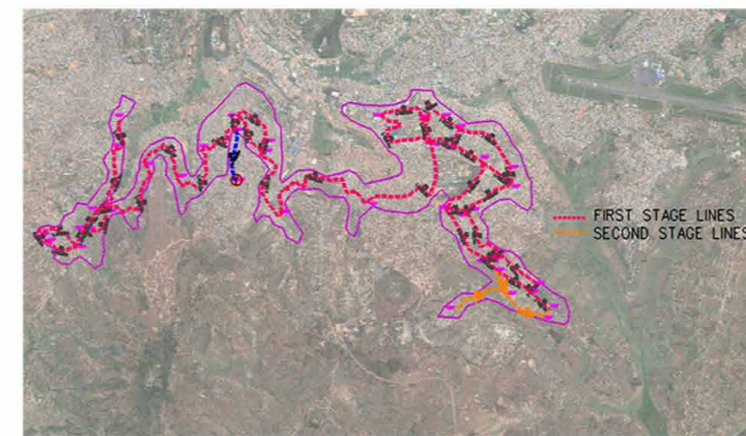
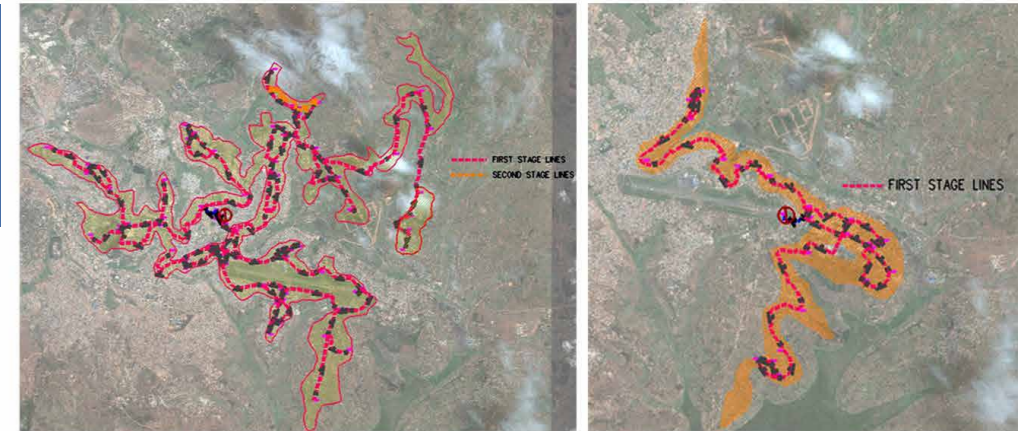


CONCEPTUAL DESIGN OF KIGALI'S POTABLE WATER SYSTEM

TYPOLOGY: CONCEPTUAL DESIGN
 DATE: 2012
 LOCATION: CITY CENTER
 KIGALI / RWANDA



Concept design for drinking water network of Kigali city, the capital of Rwanda. In this context, several feeding zones were created in addition to the existing reservoirs and transmission lines systems. Concept design studies were carried out showing all system elements and operations in order to see the regions to be fed by this expanded system.



DESIGN PROJECTS OF DELIKLIKAYA INDUSTRIAL ZONE

TYPOLOGY: INFRASTRUCTURE DESIGN PROJECTS

DATE: 2011

LOCATION: ARNAVUTKOY

ISTANBUL / TURKEY

Preparing wastewater, stormwater and drinking water projects of the industrial site in Hadımköy – Deliklikaya region of Istanbul. In the scope of this work, designs, tender documents and approximate cost studies were done in order to fulfil the needs of business lines which will be operating in the organized industrial zone.



STORMWATER DESIGN PROJECTS OF AL ANBAR PROVINCE

TYPOLOGY: STORMWATER DRAINAGE DESIGN PROJECT

DATE: 2011

LOCATION: AR RAMADI

AL ANBAR / IRAQ



It is the preparation of stormwater drainage projects of Ramadi City with 200,000 population, which is located 160 km east of Baghdad. Within the scope of this work; rainwater drainage basin of Ramadi City was identified and divided into sub-basins. The main collector lines were planned by selecting the most suitable discharge points according to the topography characteristics. The minor collector lines, which are connected to the collector lines, were planned in order to ensure the rainwater drainage of the entire basin. A total of 245 km drainage network was planned.

