TOP PROJEKT d.o.o.

DESIGN, SUPERVISION, TECHNICAL CONSULTANCY AND TRAINING
OF CUSTOMERS PERSONEL IN OIL, CHEMICAL AND PETROCHEMICAL INDUSTRY

GENERAL

Address: **Jagodišće 7, 10090 Zagreb, CROATIA**
Tel: **+385.1.3491.250, +385.1.3491.386**
Fax: **+385.1.3491.234, +385.1.3491.896**
E-mail: **top-projekt@inet.hr**
Web: **www.top-projekt.hr**

03.2013.

IQNet

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet *and* **SIQ**
hereby certify that the organization

TOP PROJEKT d.o.o.
Zagreb, Croatia

for the following field of activities

Design, supervision, technical consultancy and training
of customers' personnel in oil, chemical and petrochemical industry

has implemented and maintains a

Management System

which meets the requirements of the standard

ISO 9001:2008

Certification date: **2004-05-10**
Issue: **02 / 2010-07-15** *Validity date:* **2013-06-30**

Registration Number: **SI – Q-617**

IQNet SIQ

Michael Drechsel
President of IQNet

Igor Likar
Managing Director of SIQ

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SIQ

Certifikat / Certificate

za
sustav upravljanja

TOP PROJEKT d.o.o.
Zagreb

Projektiranje, nadzor radova, tehničko savjetovanje i izobrazba
osoblja kupca u naftnoj, kemijskoj i petrokemijskoj industriji

Ima uspostavljen i prikladno održavan sustav upravljanja,
koji ispunjava zahtjeve norme

ISO 9001:2008

Certifikat broj / Datum certificiranja
Q-617 / 2004-05-10

Izdanje **02 / 2010-07-15** *Vrijedi do:* **2013-06-30**

U ime i za SIQ
Direktor

SLOVENSKA AKREDITACIJA QMS-001 | EMS-001

IQNet

IMPACT ACCREDITED

QUALITY POLICIES

Quality is not solely an objective to us but also the basis for continuous improvement of our design services by monitoring all developments in our area

Expert and motivated personnel is our formula for success

Application of the continual improvement in all TOP PROJEKT departments

Requests and wishes of our clients are our obligation

***TOP PROJEKT d.o.o.* 1996-2012**

- The firm TOP-PROJEKT d.o.o. is Croatian company founded in 1996 by gathering together designers of different specializations from former Zagreb design companies: Industroprojekt, INA-projekt and INA engineering (established in ’50 with over 1400 designers)

- Since then the employee’s structure has changed so that TOP-PROJEKT d.o.o. besides those above stated engineers and technicians, now also employs a few young people with university and polytechnic education.

- So far, we have offices on three locations in Zagreb and Rijeka. Office in Ploče will be opened soon.

- Top Projekt Albania, established in February 2011.

- From the later on stated list of references it can be seen that we have specialized in the narrow field of loading/unloading, manipulation and storage of oil, oil products, LPG and chemicals, erection supervision, technical support and instructions for operators in oil chemical and petrochemical industry.

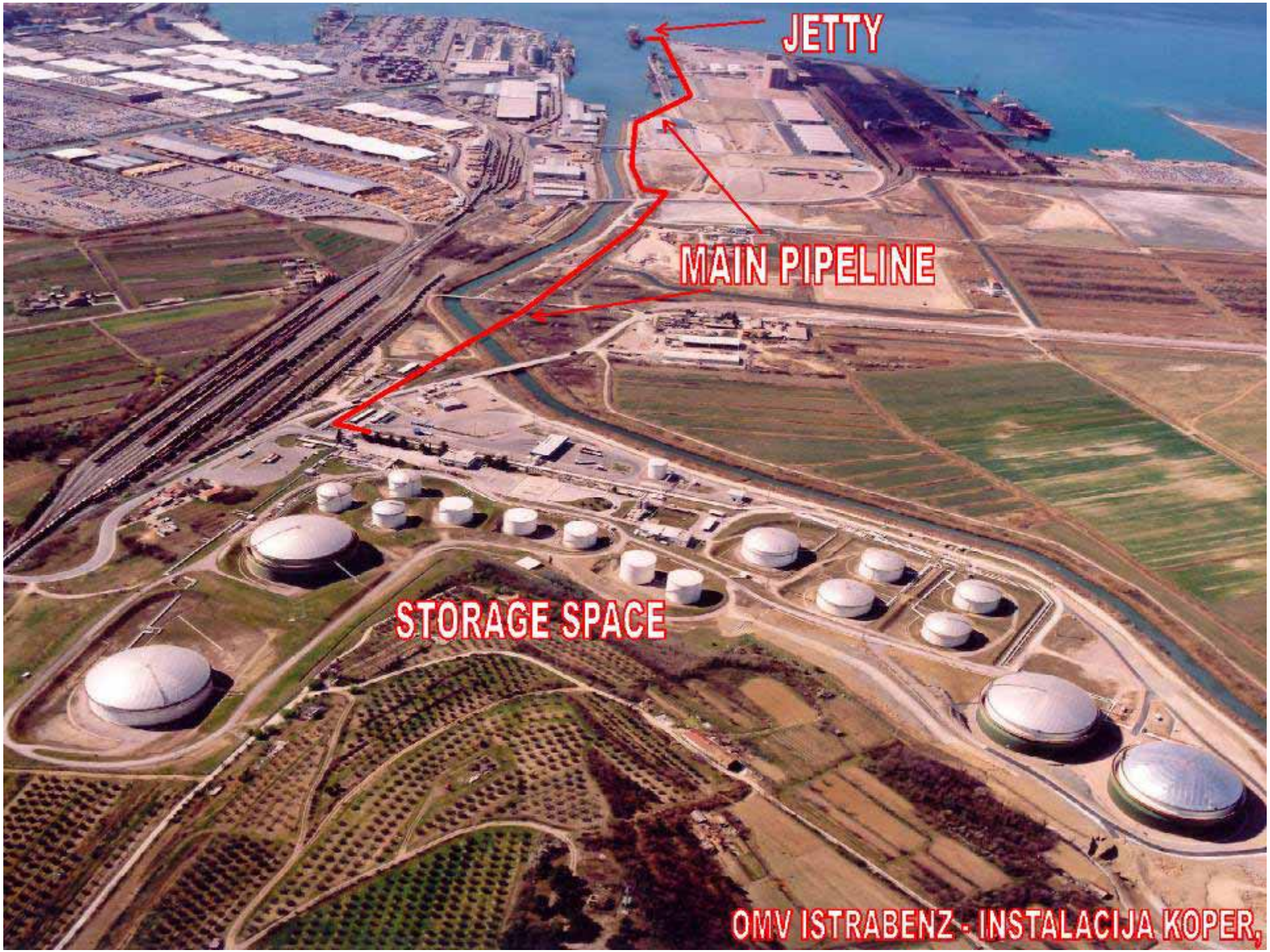
Main references *TOP PROJEKT d.o.o.* 1996-2012

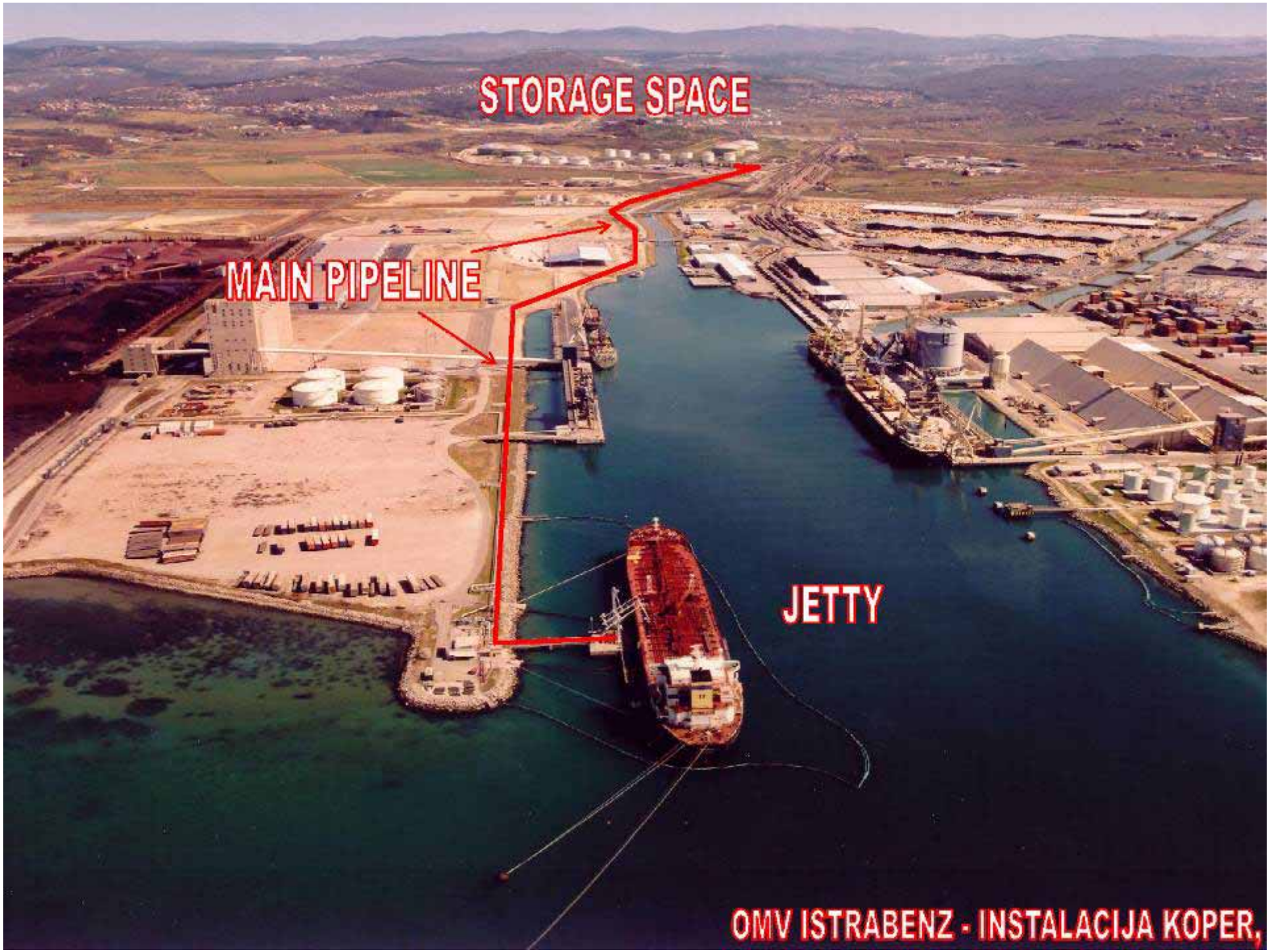
OMV ISTRABENZ, Instalacija d.o.o – Koper, SLOVENIA
PETROL, Ljubljana, SLOVENIA – Storage for oil products ZALOG JUG
PETROL, Ljubljana, SLOVENIA – Storage for oil products RAČE
PETROL, Ljubljana, SLOVENIA –LENDAVA Refinery
PORT of KOPER, Koper, SLOVENIA – Terminal for liquid chemicals
PORT of KOPER, Koper, SLOVENIA – Storage for JET fuel
ORTNEK; Ortnek, SLOVENIA - Storage for oil products
PORT of PLOČE TRGOVINA, Ploče, CROATIA – Terminal for liquid cargo (Jet fuel, diesel, gasoline)
PORT of PLOČE TRGOVINA, Ploče, CROATIA – Terminal for liquid cargo and LPG
CRODUX, Zagreb, CROATIA – Storage for oil products SPLIT
SNAKE DEPOT; Priština, KOSOVO – Storage for oil products (Jet fuel, diesel, gasoline)
INA BH, Sarajevo, BiH - Storage for oil products PODLUGOVI (Jet fuel, diesel, gasoline)
PORT of ŠIBENIK, Šibenik, CROATIA – Storage for oil products
NAFTNI TERMINALI FEDERACIJE, Ploče, CROATIA
TERMINALI FEDERACIJE, Sarajevo, BOSNIA and HERZEGOVINA
GLAS FACTORY Straža, CROATIA
ARZEW – SDDI BEL ABBES, Tlemcen, ALGERIA
GAS PLANT, Maribor, SLOVENIA
SEDAM PLIN; Zaprešić, CROATIA – Storage for LPG
MIRADI e EPERME, Priština, KOSOVO – Storage for LPG
MIRADI e EPERME, Priština, KOSOVO – Storage for oil products (Jet fuel, diesel, gasoline)
KNAUF KNIN, Knin, HRVATSKA – Plaster factory – Storage for LPG
INA, Zagreb, CROATIA – SISAK Refinery
PRO PLIN, Zagreb, CROATIA – Storage for LPG, OSIJEK
PRO PLIN, Zagreb, CROATIA – Storage for LPG, K. SUĆURAC

PROPLIN, Zagreb, CROATIA – LPG distribution center, RIJEKA URINJ
PROPLIN, Zagreb, CROATIA – LPG distribution center, ZAGREB ŽITNJAK
PROPLIN, Zagreb, CROATIA – LPG distribution center, SMOKVICA, island Korčula
DOLINAR, Lipnik, Ozalj, CROATIA – Gas plant
KOKSNO KEMIJSKI KOMBINAT LUKAVAC, BOSNIA and HERZEGOVINA– n-butane facility
TIFON, Zagreb, CROATIA – Compact SKID unit for loading LPG (cars)
BRALA TRADE, Zadar, CROATIA – Gas plant
PROGETTI EUROPA, Rim, ITALY – Valve stations
PROGETI EUROPE, Rome, ITALY – Valve stations
JANAF, Zagreb, CROATIA – Truck loading terminal Omišalj (modernisation)
JANAF, Zagreb, CROATIA – expansion of terminal Omišalj (crude oil storage and oil products terminal)
JANAF, Zagreb, CROATIA – expansion and modernization of oil products terminal Žitnjak, Zagreb
TERMINAL SLAVONSKI BROD, Slavonski Brod, CROATIA - Storage for oil products
JUGOPETROL KOTOR, Kotor, MONTENEGRO – Asphalt storage
JUGOPETROL KOTOR, Kotor, MONTENEGRO – LPG terminal
ALTARIA, Nicosia, CYPRUS – Storage for oil products Porto Romano, Albania
ITALIKACINK, Lički Osik, Gospić, CROATIA – LPG storage for galvanization process
UNION STORAGE & FUEL MANAGEMENT CO. Amman, JORDAN – Storage for LPG Aqaba
DINA, Krk, CROATIA – Storage for LPG
CRODUX PLIN, Zagreb, CROATIA – Storage for LPG and oil products, Pustodol
ITALIKACINK, Lički Osik – LPG storage for galvanization process - inside
MORH, Zagreb, CROATIA – Replaceble NATO modules
INA AVIOSERVIS, Zagreb, CROATIA – Pleso airport, Zagreb, CROATIA
INA AVIOSERVIS, Zagreb, CROATIA – Airport Pula, CROATIA
INA AVIOSERVIS, Zagreb, CROATIA – Airport Zamunik, Zadar, CROATIA
INA AVIOSERVIS, Zagreb, CROATIA – Airport Dubrovnik, CROATIA
Airport Zagreb – New terminal for JET and diesel fuel
Airport Mostar
Airport Skopje

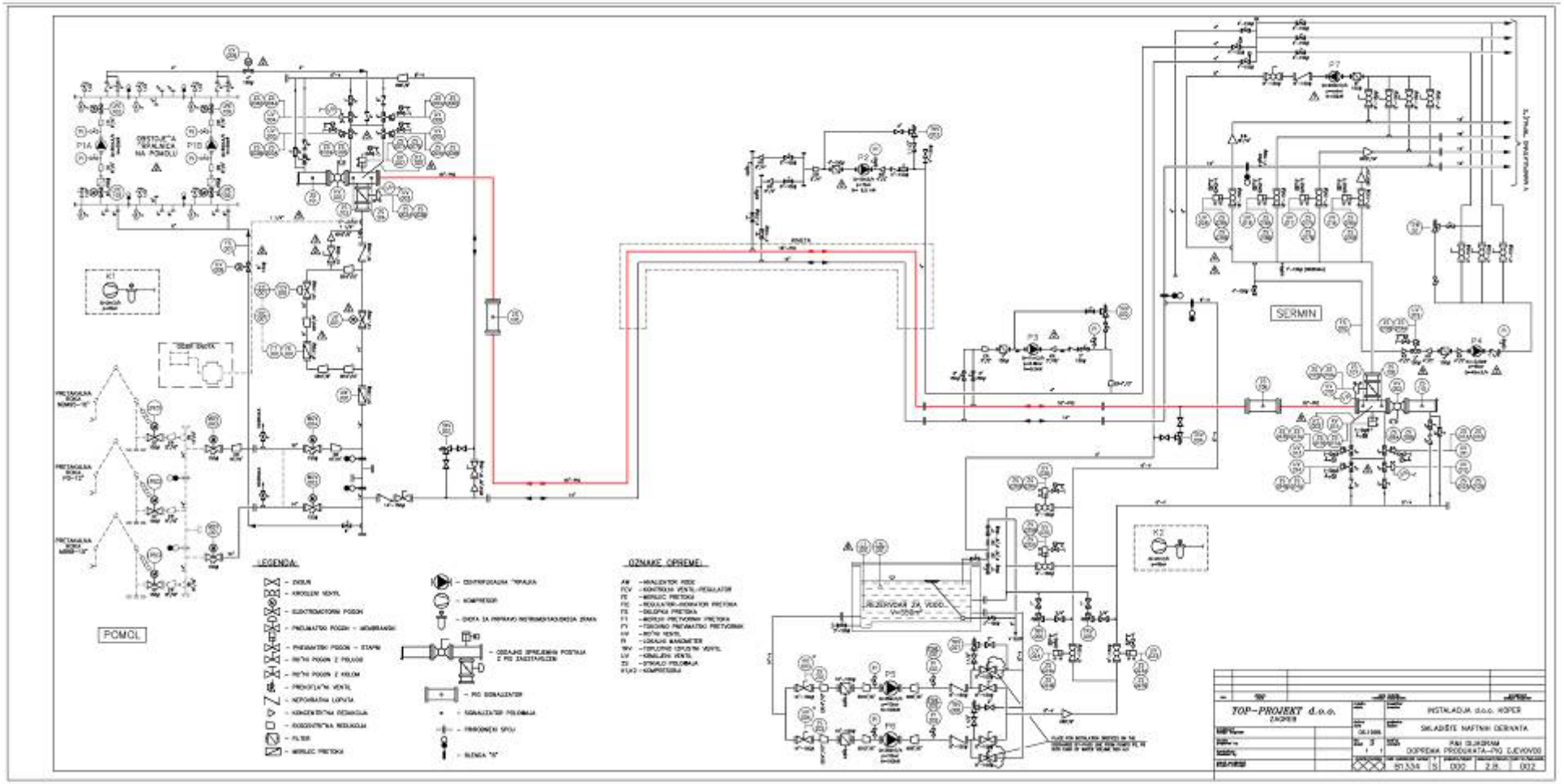
LIQUID CARGO

OMV - ISTRABENZ, Instalacija d.o.o. - Koper, SLOVENIA; 1996-.....


JETTY
MAIN PIPELINE
STORAGE SPACE
OMV ISTRABENZ - INSTALACIJA KOPER,


STORAGE SPACE
MAIN PIPELINE
JETTY
OMV ISTRABENZ - INSTALACIJA KOPER,

MULTIPRODUCT PIPELINE
P&I DIAGRAM
Total Lenght ~2,7 km



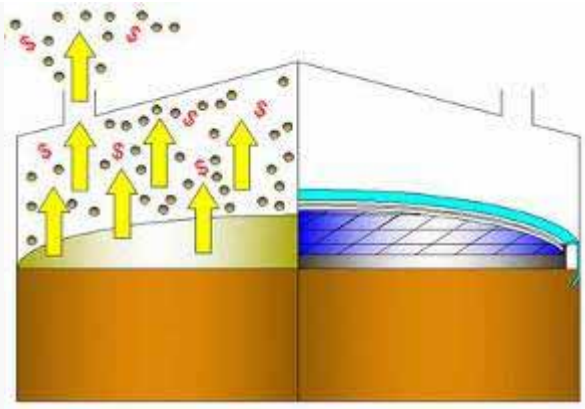
MULTIPRODUCT PIPELINE DESIGN

- Closed system for multiproduct pipeline dimension 16”, route length cca 2,7 km (more products through the same pipeline)

  The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

Design for the tanks

- 3 x V=60.000m^3 - R-8, R-17, R-19, R-20
  (steel tank dike, Al dome, inner Al floating cover)
- 2 x V=30.000m^3 - R-5, R-18
  (steel tank dike, Al dome, inner Al floating cover)



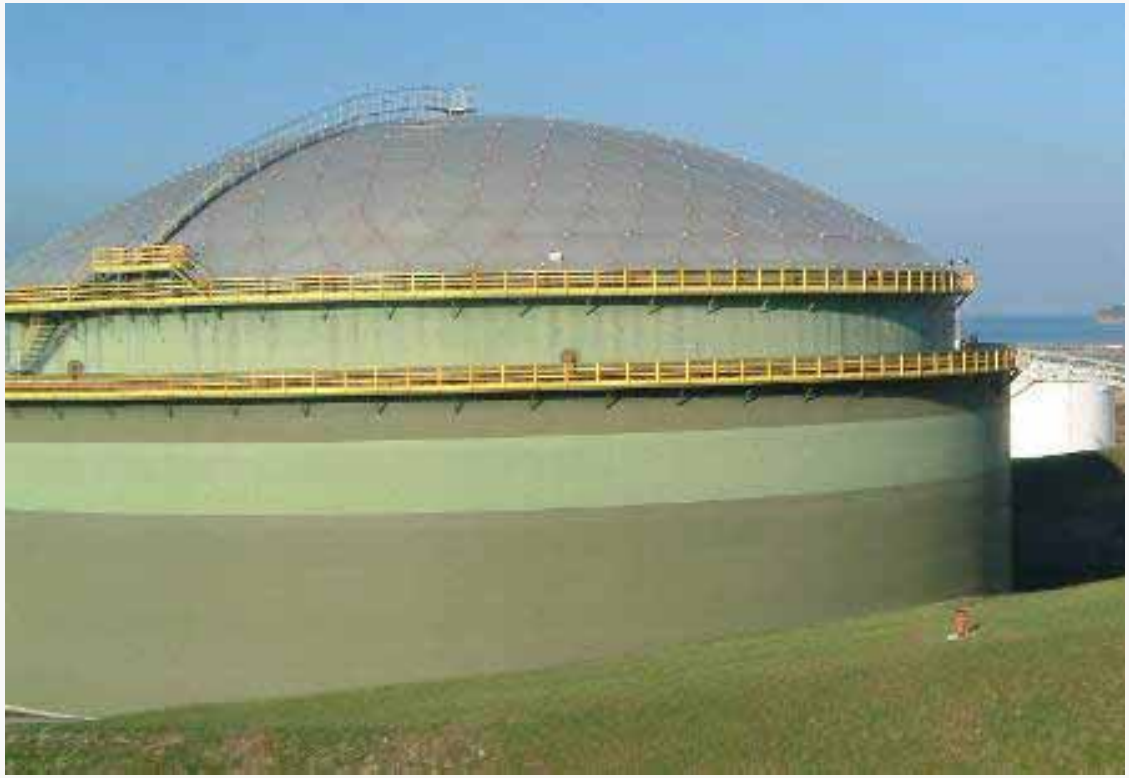
Reconstruction of the tanks (in-building of Al inner floating cover)

- R-1, R-2, R-3; V=4.700m^3 each
- R-10, R-11; V=6.100m^3 each

Reconstruction of the tanks (in-building of Al self supportive dome roof and Al inner floating cover)

- R-4; V=4.900m^3
- R-6, R7; V=6.300m^3 each
- R-14, V=6.500m^3
- R-15, R-16; V=6.700m^3 each
- R-13; V=9.500m^3
- R-12; V=11.500m^3
- R-9; V=40.000m^3

V=60.000m^3




EPP-1

Design for the truck tank loading unit

- 6 islands, 24 measuring units, bottom loading, closed fully-automated system for fuel loading, unit for depresant and colour


EuroBenz
33
1203

Design for the rail tank loading unit

Design for the hydrocarbon gas storage

- V=2.000m^3 with VRU
  (vapour recovery unit - unit for processing hydrocarbon vapours)

JETTY

PETROL, Ljubljana, SLOVENIA – Storage for oil products
ZALOG SOUTH 1997-2001

Design for the tanks

- R-9, R-10; V=10.000m^3 (Al dome, Al IFR)
- R-1, R-2, R-3; V=500m^3 (Al dome, Al IFR)
- R-4, R-5; V=1.800m^3 (Al dome, Al IFR)
- R-7, R-8; V=2.000m^3 (Al dome, Al IFR)

Reconstruction of the tank

- R-6; V=10.000m^3
  (steel tank dike, Al dome, Al IFR)

Design for the VRU & vapor holder

Design for the truck tank loading unit

3 islands, 12 measuring units, bottom loading, closed full-automatic system for fuel loading

Design for the rail tanks unloading unit

- Simultaneous unloading of 8 rail tanks

  The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

PETROL, Ljubljana, SLOVENIA – Storage for oil products RAČE 1996-2002

Reconstruction of the tanks

- 4 x V=10.000m^3 (Al dome, Al IFR)
- 2 x V=5.000m^3 (Al dome, Al IFR)
- 2 x V=2.000m^3 (Al dome, Al IFR)
- 4 x V=1.000m^3 (Al dome, Al IFR)

Design for the truck tanks loading unit

3 islands, 4 measuring units, bottom and top loading, automatic system for fuel loading

PORT OF KOPER, Koper, SLOVENIA

Terminal for liquid chemicals 1998-1999

Design for the tanks

- 3 x V=500m^3 (stainless steel)
- 2 x V=1.500m^3 (stainless steel)

Reconstruction of the tanks

- R-203, R-205, R-208; V=630m^3 each
- R-101, V=1.000m^3
- R-207, V=1.220m^3
- R-202, V=2.170m^3

Design for multiproduct pipeline

- Closed system for two multiproduct pipelines dimension 6" and 4" (more products trough the same pipeline), 2 independent pipelines

Design for the truck tanks loading unit

- 2 measuring lines for bottom loading

PORT OF KOPER, Koper, SLOVENIA

Storage tanks for JET fuel – customer Q8, Kuwait 2007

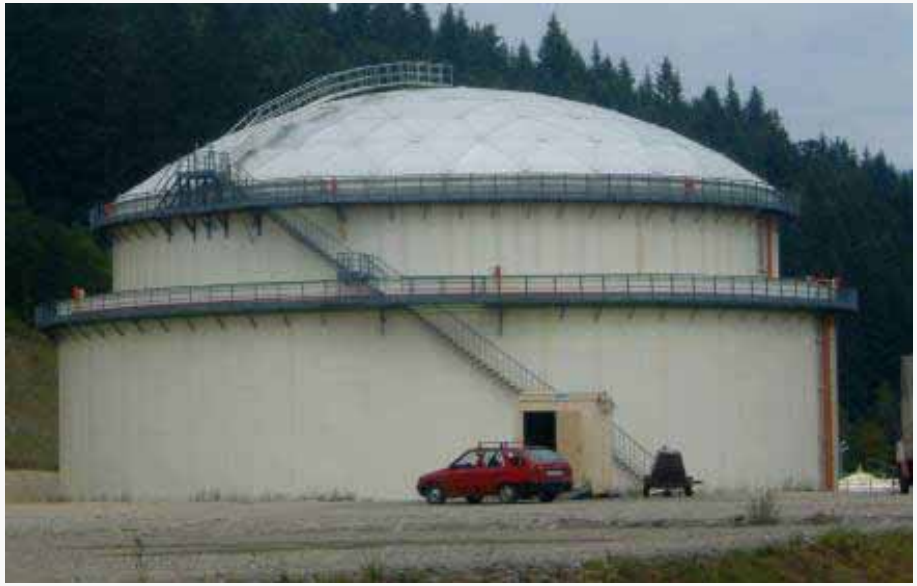
ORTNEK, SLOVENIA – Storage for oil products 1996-2003

Design for the tanks

- R-12, R-13, R-14, R-15; V=20.000m^3 each (steel tank dike, Al dome, Al IFR)
- R-16; V=10.000m^3 (steel tank dike, Al dome, Al IFR)

Reconstruction of the tanks

- R-1, R-2; V=1.400m^3 each
- R-3; V=1.450m^3
- R-5, R-6, R-7, R-8; V=2.700m^3 each
- R-9, R-10, R-11; V=4.200m^3 each



Design for the pump station, manipulative pipelines, additives storage, pump station for additives and fire protection system

Design for the truck tanks loading unit

3 islands, 12 measuring lines, bottom loading, closed full-automatic system for fuel loading

Design for the hydrocarbon gas storage V=1.000m^3 with VRU

Design for the rail tank loading/unloading terminal

- 3 measuring lines for top loading and 6 measuring lines for unloading

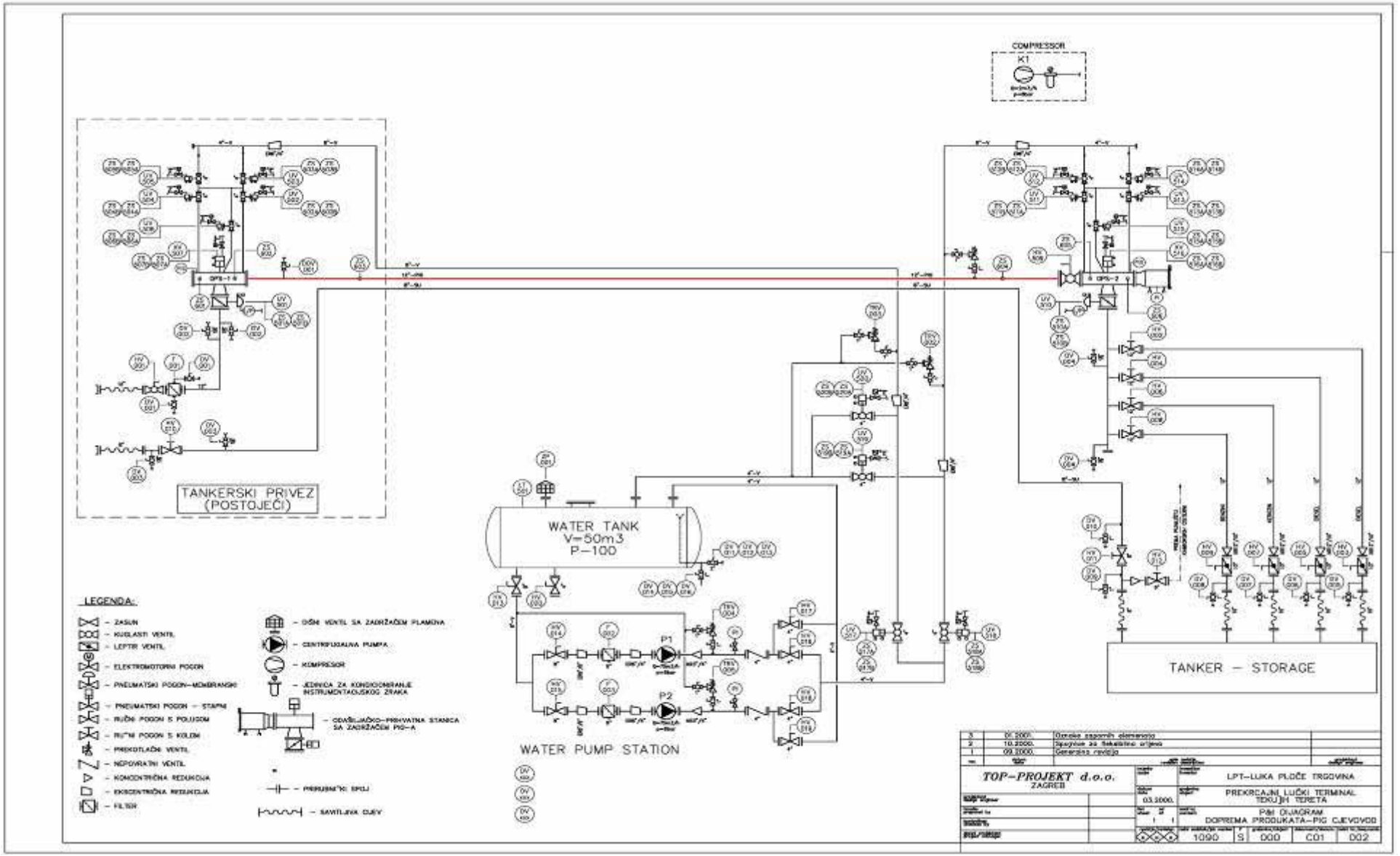
The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

PORT OF PLOČE , Ploče, CROATIA
Terminal for liquid cargo 1999-2002

- Closed system for multiproduct pipeline dimension 12”, route length cca 1,2 km

The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

MULTIPRODUCT PIPELINE
P&I DIAGRAM
Total Lenght ~1,2 km



Design for the truck tank loading unit

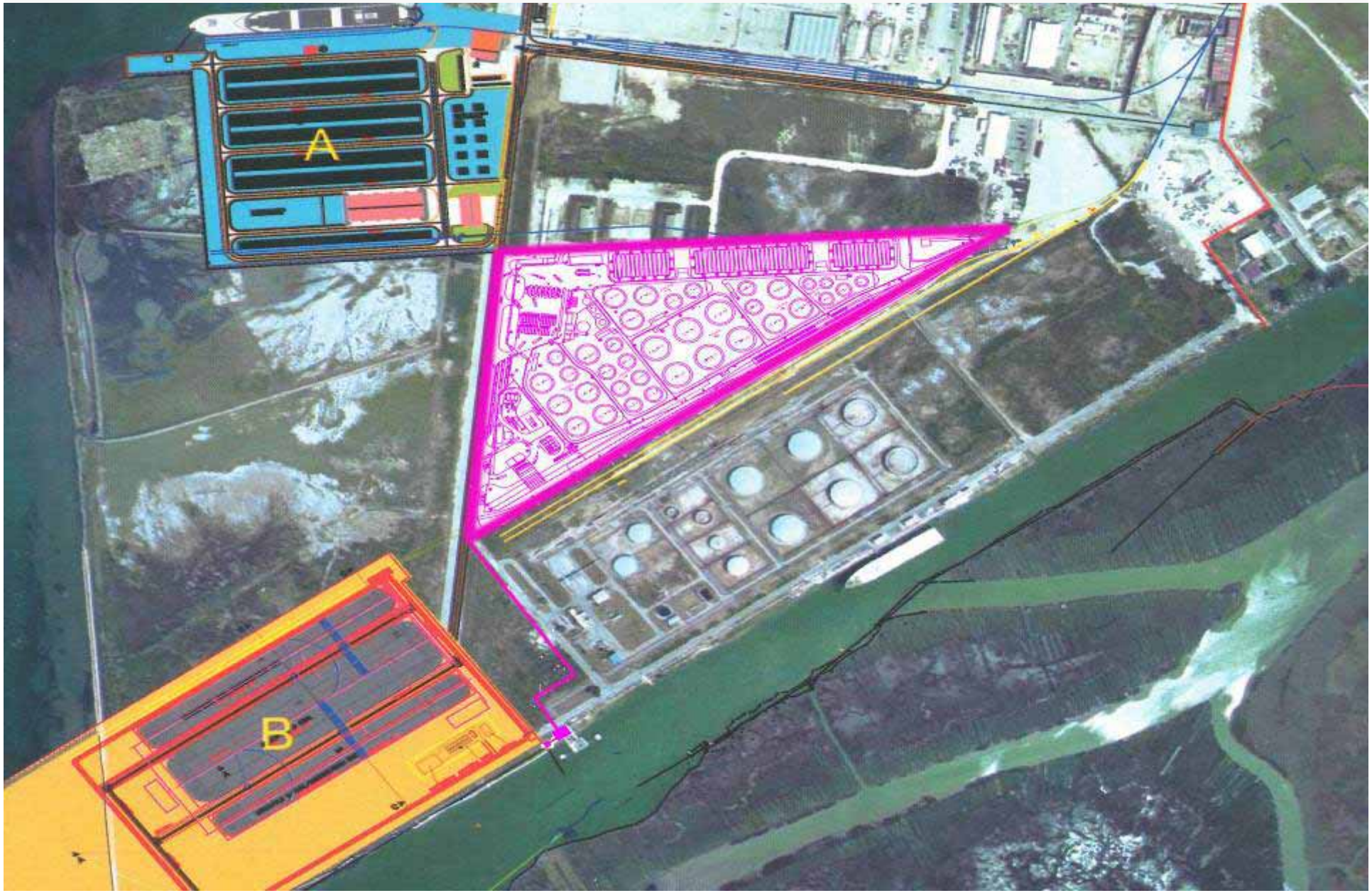
- 2 islands, 4 measuring units, 8 loading arms, bottom and top loading, automatic system for fuel loading

Design for the rail tank loading unit

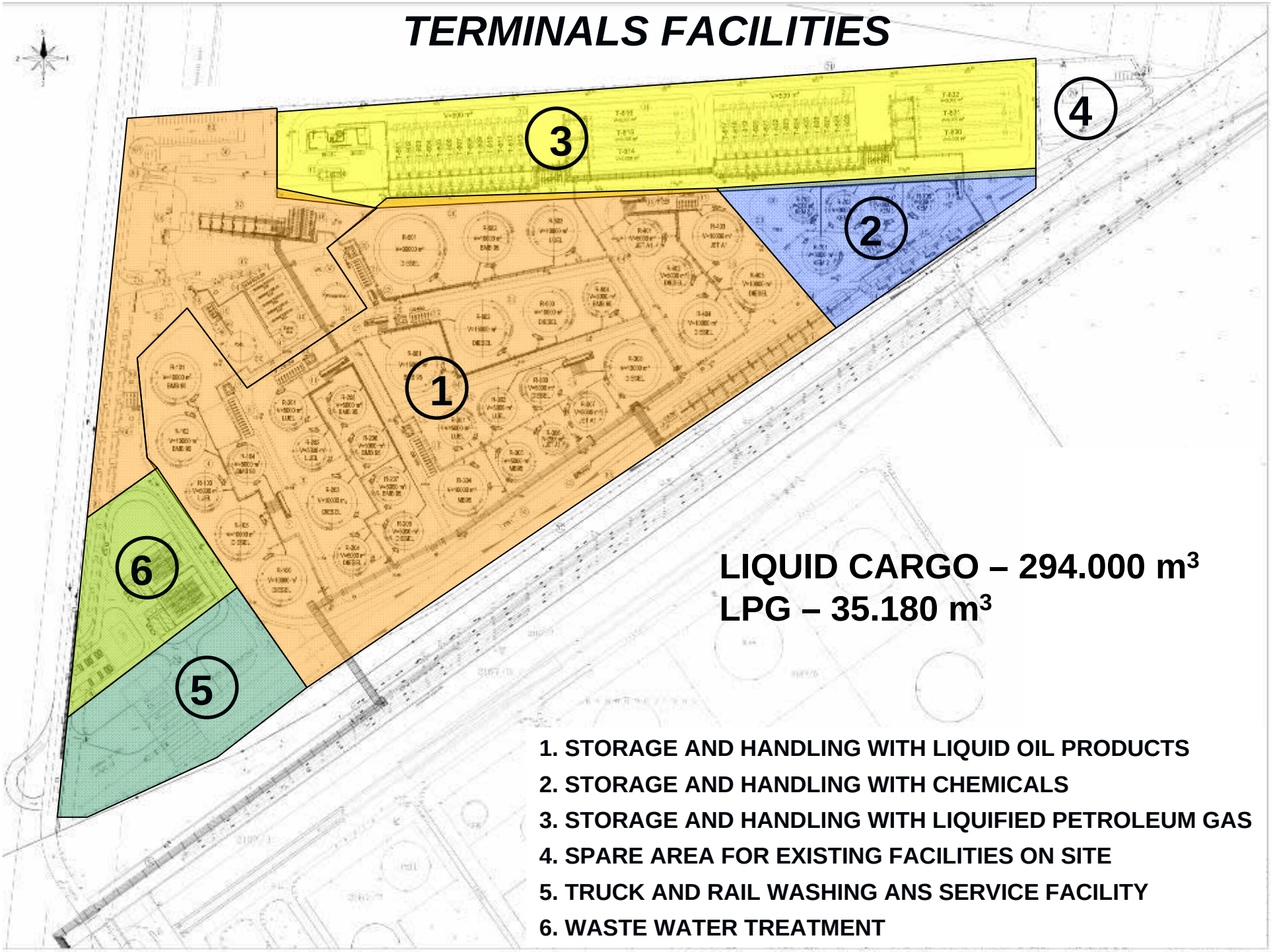
- 2 loading units for top loading

  The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

New terminal for storage and reloading of liquid cargo
Port of Ploče (2007-….)



TERMINALS FACILITIES



LIQUID CARGO – 294.000 m³
LPG – 35.180 m³

1. STORAGE AND HANDLING WITH LIQUID OIL PRODUCTS
2. STORAGE AND HANDLING WITH CHEMICALS
3. STORAGE AND HANDLING WITH LIQUIFIED PETROLEUM GAS
4. SPARE AREA FOR EXISTING FACILITIES ON SITE
5. TRUCK AND RAIL WASHING ANS SERVICE FACILITY
6. WASTE WATER TREATMENT

PREPARATION WORKS – SOIL IMPROVEMENT

SNAKE DEPOT (INA KOSOVO), Priština, KOSOVO
Storage of oil products 1999-2007

INA's storage was completely destroyed in the summer of 1999 during the war. After that we started with erection and modernization. First phase for KFOR –French battalion for two fuels (jet fuel F-35, and diesel), second phase for US Army – modernization for usage of special jet fuel with automatic addition of additives and inhibitors. Top Projekt for this storage has made documentation for two phases and organized erection. Director of Top Project has been awarded with medal from French army.




Documentation for complete infrastructure reconstruction

The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

Reconstruction of the tanks

- V=10.000m^3
- V=5.000m^3
- V=3.000m^3
- V=2.000m^3


60

INA BH (HOLDINA), Podlugovi, BOSNIA and HERZEGOVINA
Storage of oil products 1999-2001

Design for the JET fuel tank
- R-3, R-4; V=3.000m^3 each

Design for the reconstruction of the pump station, manipulative pipelines and fire protection system

Design for the truck tank loading unit
- 4 measuring lines for bottom loading and 4 measuring lines for top loading

Design for the rail tank unloading unit
- Unloading unit for 15 rail tanks with flexibile hoses
- Unloading with hoses


INA
INA

PORT of ŠIBENIK, Šibenik, CROATIA, Storage for oil products 2001

Design documentation for the change of designated purpose of former army tank space:

- Reconstruction of the tanks
- New truck tank loading unit – 2 islands, 4 measuring lines for top loading

NAFTNI TERMINALI FEDERACIJE (ex ENERGOPETROL), Ploče, CROATIA 2001-2007

- Technical documentation for reconstruction of storage facilities on Terminal for liquid oil products in Port Ploče.

NAFTNI TERMINALI FEDERACIJE (ex ENERGOPETROL), Ploče, CROATIA 2001-2007

- Technical documentation for reconstruction of storage facilities on Terminal for liquid oil products in Port Ploče
- Reconstruction of tanker mooring for simultaneous unloading of two different products

- Reconstruction of tanks T-03, T-04, T-06 wit installing Al IFR
- Installing of 6 new loading arms on rail loading terminal
- New truck loading bay for top and bottom loading – 3 top loading and 3 bottom loading arms with complete new measuring equipment

MIRADI e EPËRME, Priština, KOSOVO, Storage for oil products 2002-2007

Design for the tanks

- R-1, V=4.000m^3 (Steel dome, Al IFR)
- R-2, V=4.000m3 (Steel dome, Al IFR)
- R-3, V=4.000m3 (Steel dome, Al IFR)
- R-4, V=4.000m^3 (Steel dome, Al IFR)
- R-5 (JET A1), V=1.000m^3 (Steel dome, floating suction)
- R-6, (JET A1), V=100m^3 (Steel dome, floating suction)
- R-7, V=100m^3 (Steel dome, inner Al floating cover)
- R-8, V=320m^3 (Steel dome)
- R-9, V=320m3 (Steel dome)

Design for the truck tanks loading

Design for the rail tank loading/unloading terminal

The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

Erection supervision

INA, Zagreb, CROATIA – SISAK Refinery

2000-2007

DESIGN FOR THE SLOP TANKS

- Slop tanks R-105 and R-106
- Slop tanks TK-5102 and TK-5103
- Pump station

Electrical Design
Design for control and instrument

BASIC DESIGN FOR TANK RECONSTRUCTION

REDUCTION OF EVAPORATION LOOSES ON TANKS WITH FIXED AND FLOATING ROOFS:

- Tank group 100
- Tank group 200
- Tank group 300

DESIGN DOCUMENTATION FOR RECONSTRUCTION OF R-5301 AND REVITALISATION OF SECTION 5300 UNIFINING

- Main design for building permit
- Detail designe for erection

TERMINAL d.o.o., Slavonski Brod, CROATIA
Storage for oil products Slavonski Brod
Investor: DELTA GRIP, London / Zagreb 2007-2008

The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

LPG tank modification
Tank for eurodiesel V = 500 m^3

JANAF – JADRANSKI NAFTOVOD d.d. ZAGREB, CROATIA

BASIC DESIGN FOR LOCATION PERMIT:

- MARINE UNLOADING & PIPELINE RECONSTRUCTION
- CRUDE OIL STORAGE EXPANSION
- OIL PRODUCTS FACILITY MODERNISATION
- NEW OIL PRODUCTS TERMINAL

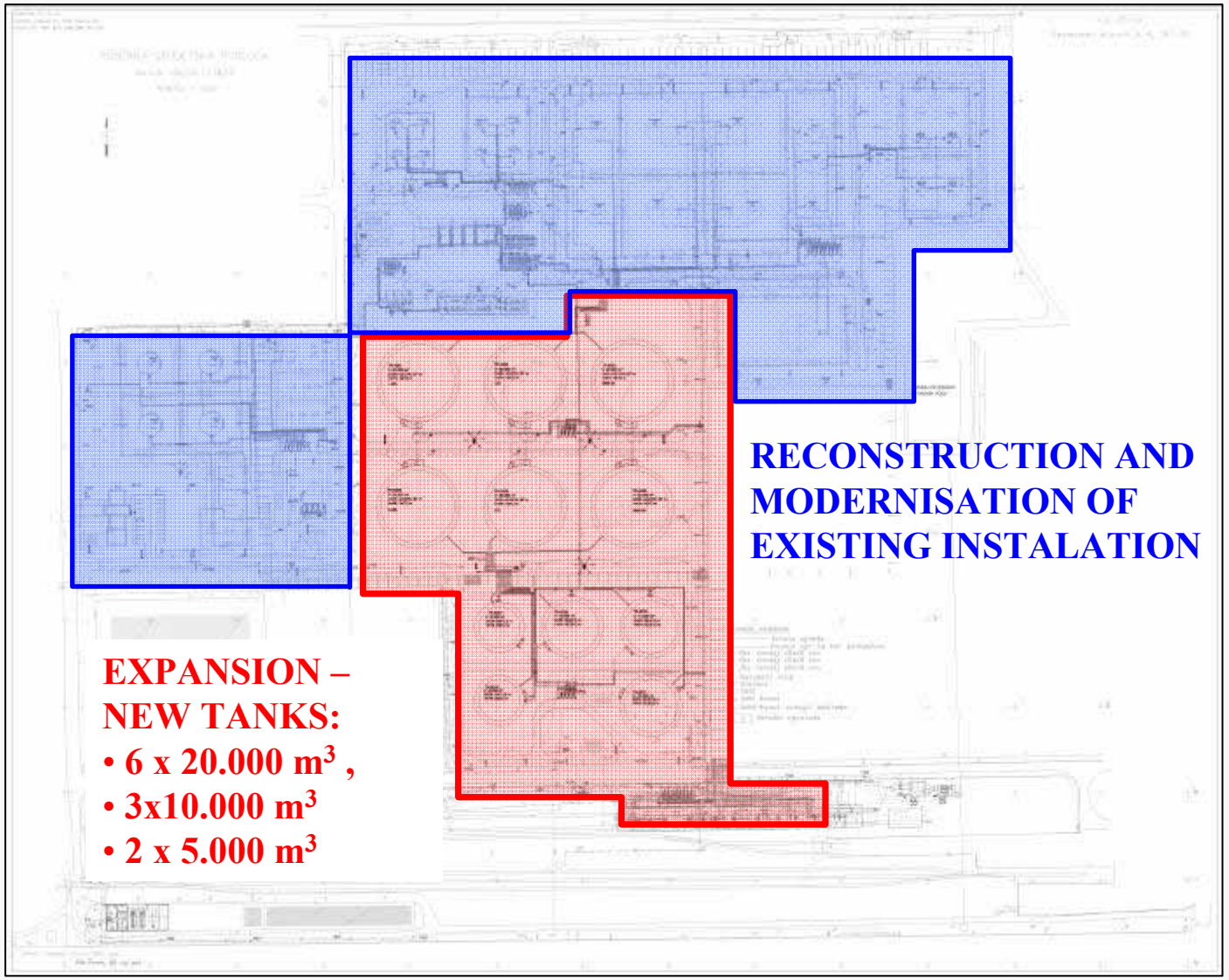
TERMINAL OMIŠALJ
ISLAND KRK
2007-….

EXISTING

FUTURE

JANAF d.d. TERMINAL ŽITNJAK, ZAGREB 2007-….

- EXISTING OIL PRODUCTS TERMINAL RECONSTRUCTION AND MODERNISATION
- NEW OIL PRODUCTS TERMINAL



ALTARIA, Nicosia, CIPAR, Terminal for liquid cargo and LPG
Porto Romano, ALBANIA 2007-.....

- Tank - V = 3 x 20.000 m^3 + 2 x 500 m^3
- JET A1, V =1 x 5.000 m^3 + 1 x 1.000 m^3
- Asphalt, V = 2 x 5.000 m^3
- LPG, V = 21 x 550 m^3
- Hydrocarbon unit (vapour recovery unit)

PREPARATION WORKS – SOIL IMPROVEMENT

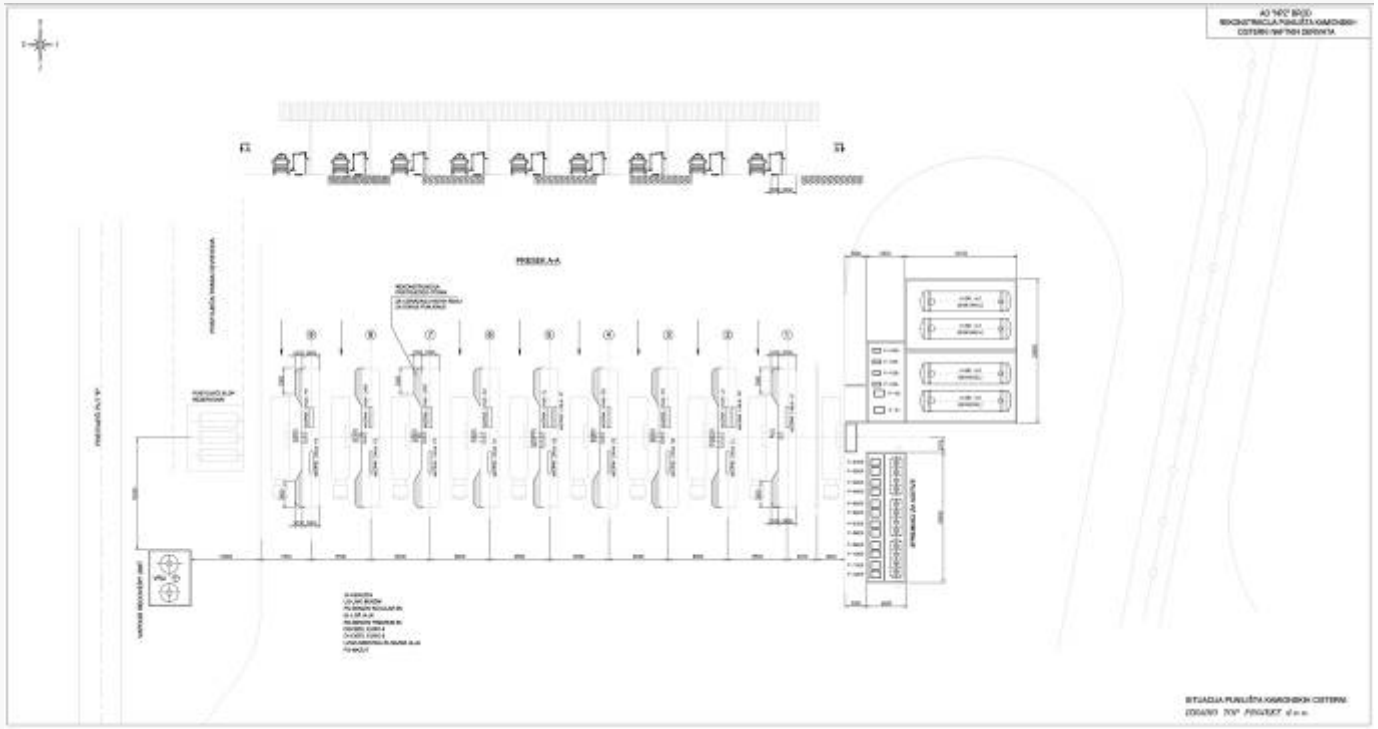
BROD REFINERY, Bosanski Brod, BOSNIA and HERZEGOVINA

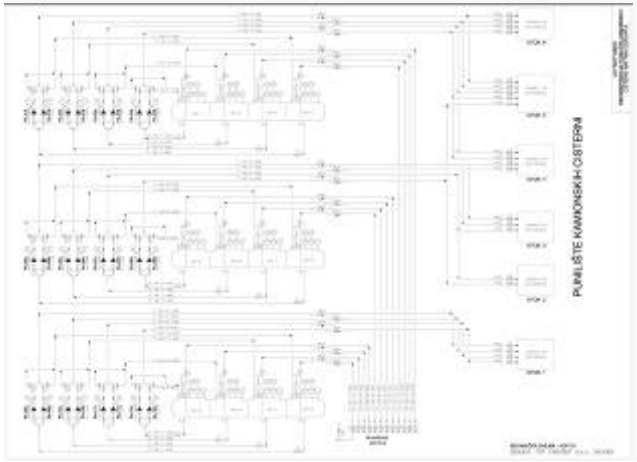
Truck loading terminal

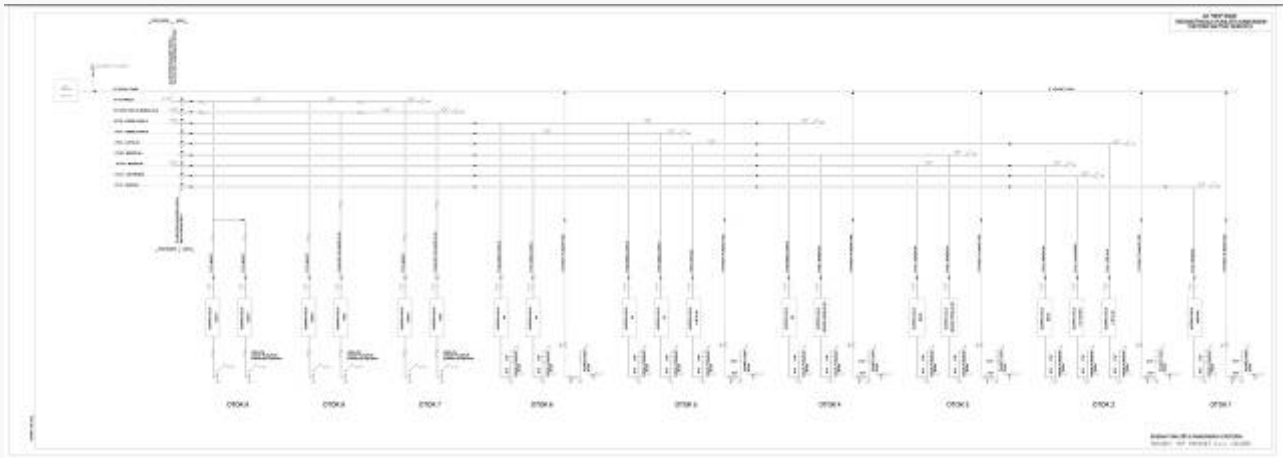
2011-.....

MODERNISATION OF TRUCK LOADING TERMINAL:
9 bottom loading bays for oil products

PROJECT STATUS:
- offering phase





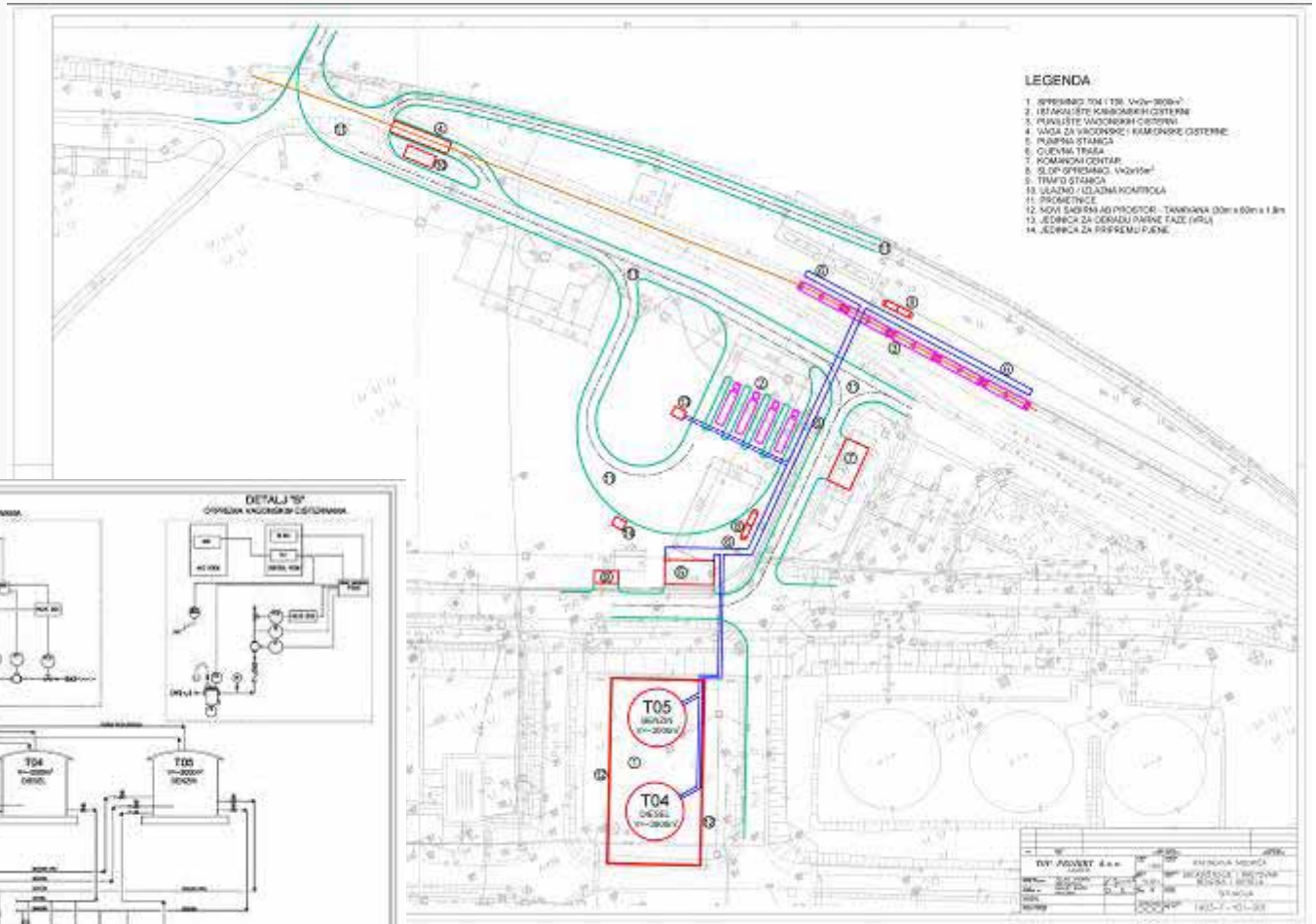


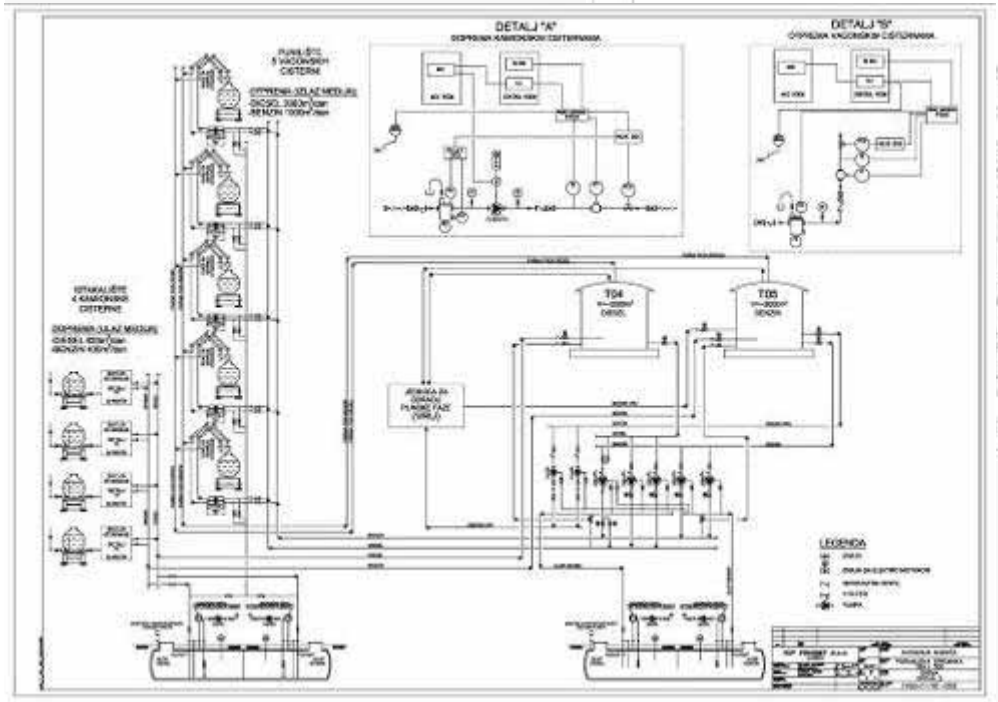
MODRIČA REFINERY, Modriča, BOSNIA and HERZEGOVINA

Tank reconstruction with new facilities

2011-.....

PROJECT STATUS:
- offering phase





- **TANKS RECONSTRUCTION (T04, T05)**
- **NEW RAIL TANK LOADING TERMINAL**
- **NEW TRUCK TANK UNLOADING TERMINAL**
- **VAPOUR RECOVERY UNIT**
- **GAS BALLANCING**

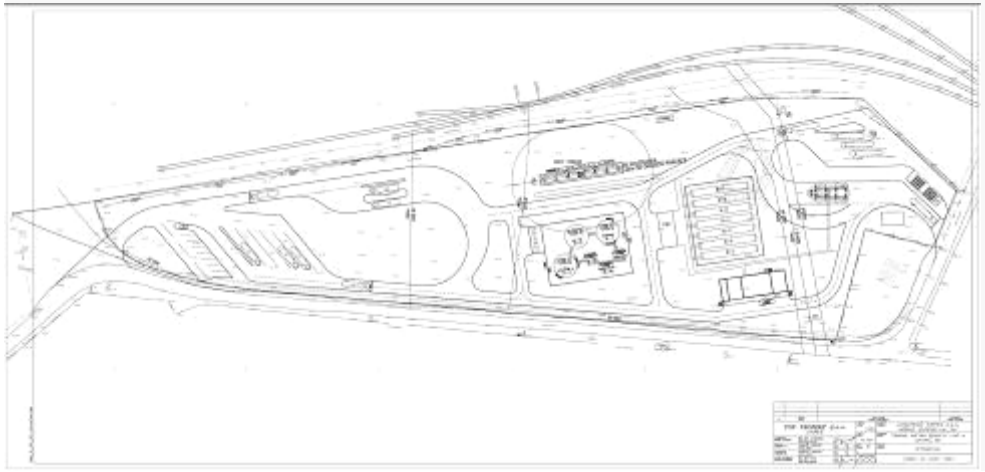
JUNUZOVIĆ KOPEX, Lukavac, BOSNIA and HERZEGOVINA

Storage for oil products and LPG

2008-.....

PROJECT STATUS:
- design phase

-LPG TERMINAL
(7x250m3) fully mounded
-OIL PRODUCTS TERMINAL
(3x1000m3, 3x300m3)
-RAIL TANK RELOADING TERMINAL
-NEW TRUCK TANK RELOADING TERMINAL

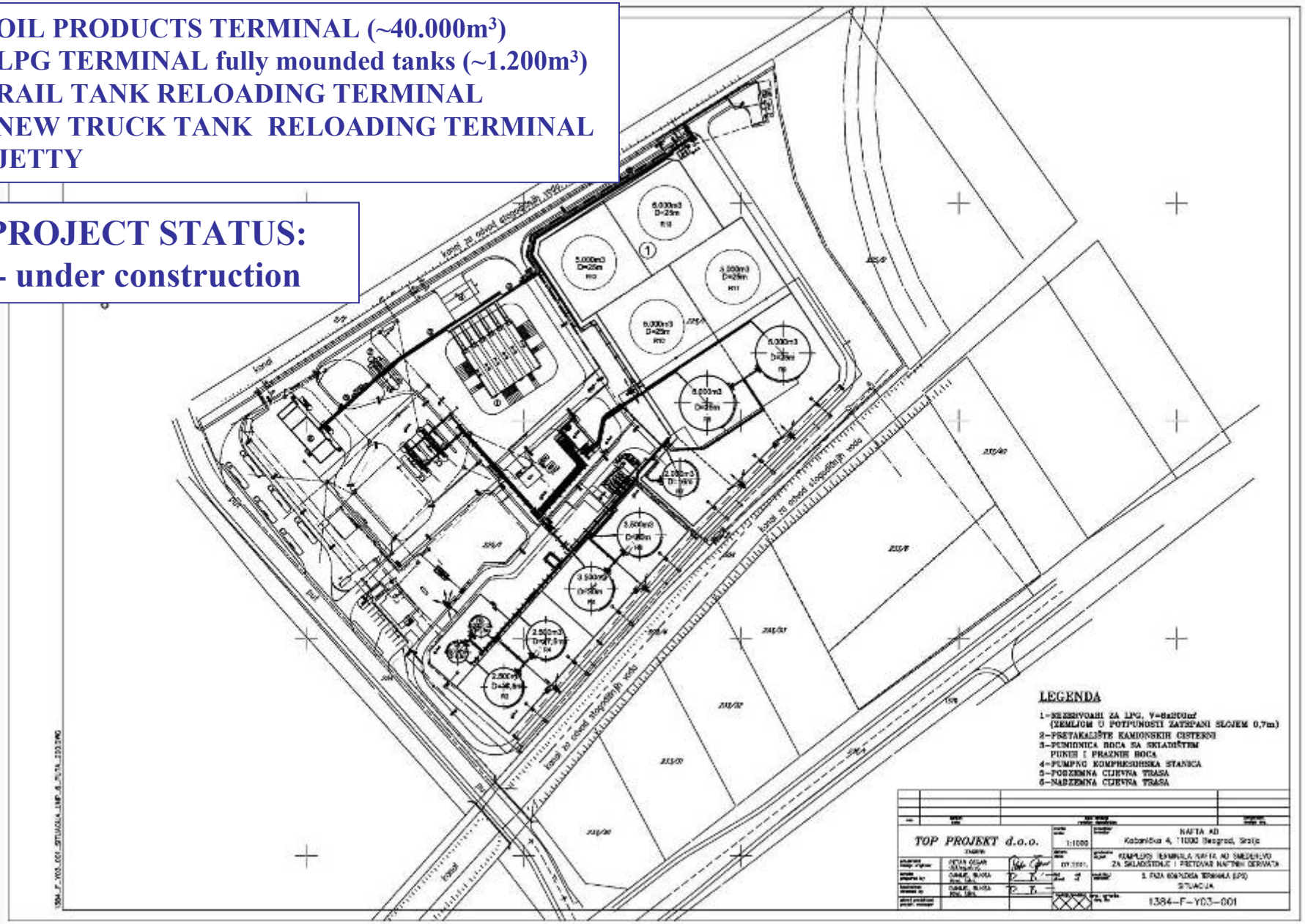


NAFTA AD, Belgrade, SERBIA

Storage for oil products and LPG – SMEDEREVO, 2009 - ....

-OIL PRODUCTS TERMINAL (~40.000m^3)
-LPG TERMINAL fully mounded tanks (~1.200m^3)
-RAIL TANK RELOADING TERMINAL
-NEW TRUCK TANK RELOADING TERMINAL
-JETTY

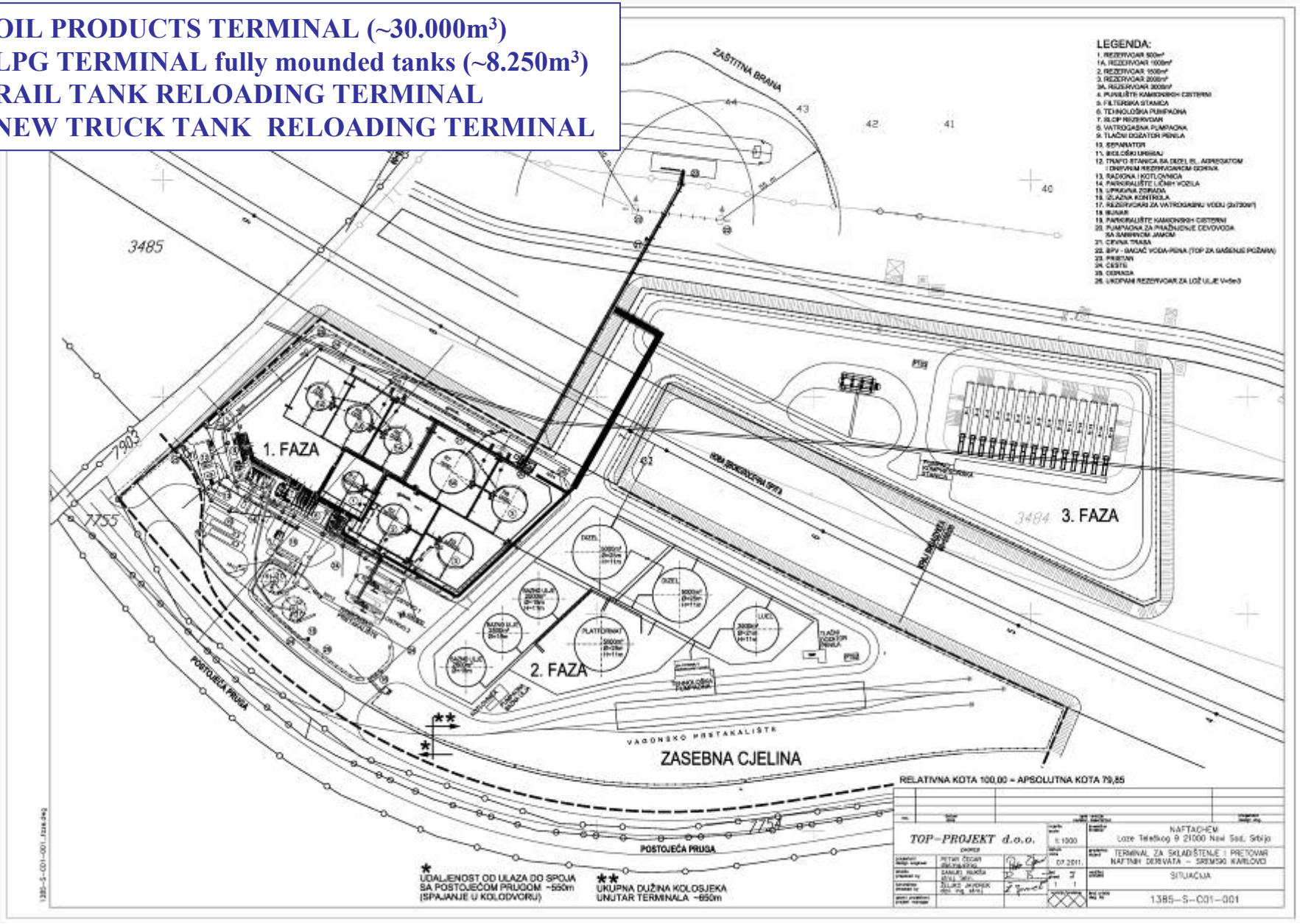
PROJECT STATUS:
- under construction



NAFTACHEM, Novi Sad, SERBIA

Storage for oil products and LPG – SREMSKI KARLOVCI, 2009 - …

-OIL PRODUCTS TERMINAL (~30.000m^3)
-LPG TERMINAL fully mounded tanks (~8.250m^3)
-RAIL TANK RELOADING TERMINAL
-NEW TRUCK TANK RELOADING TERMINAL




R-4
R-5
R-1
R-2
NESTRO DUNAV


R-3

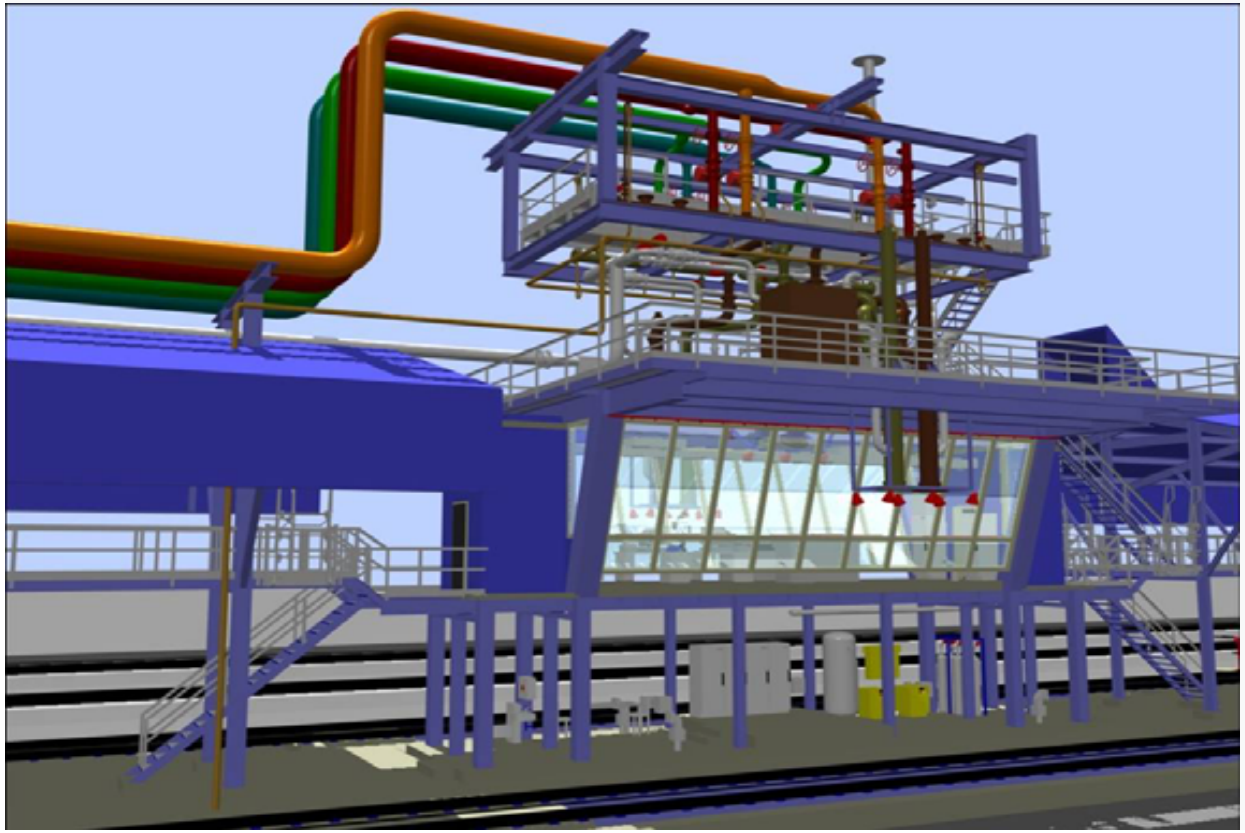

R-3

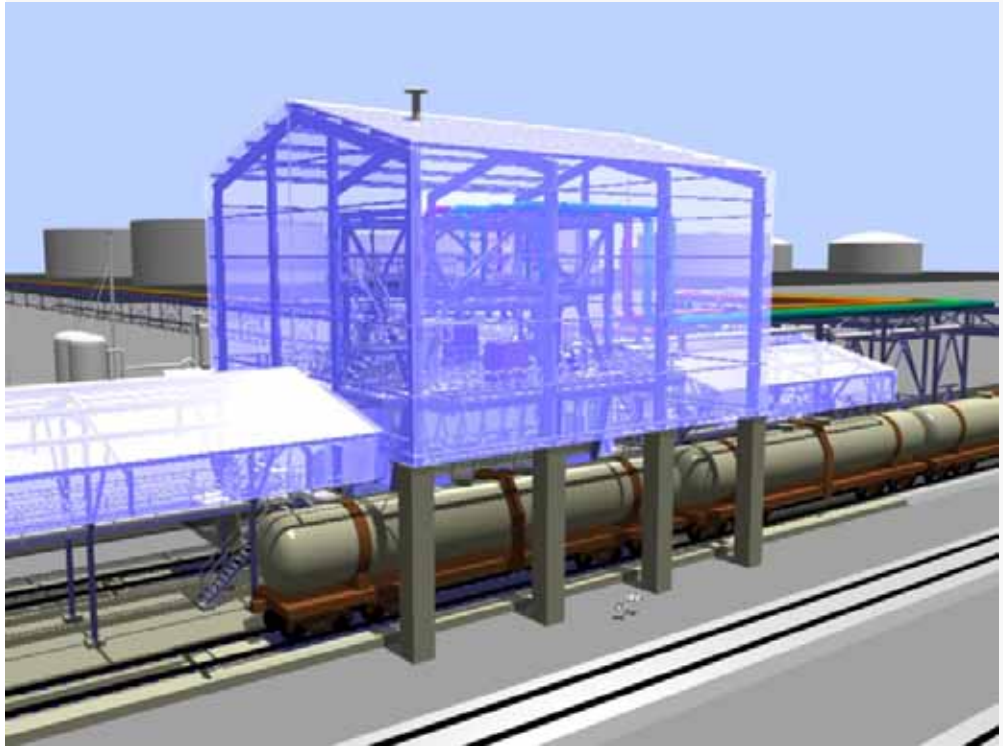
NEW TRUCK TANK RELOADING TERMINAL

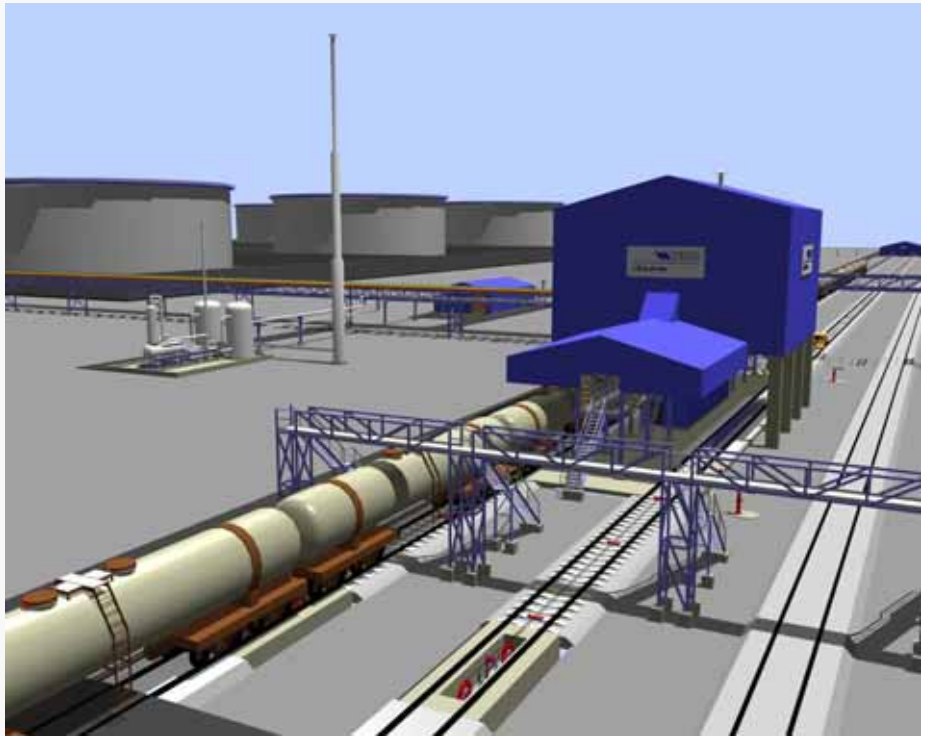
TUPRAS, Kirikkale Refinery, Ankara, TURKEY
In cooperation with SIEMENS CROATIA
The implementation Phase, 2011 - …

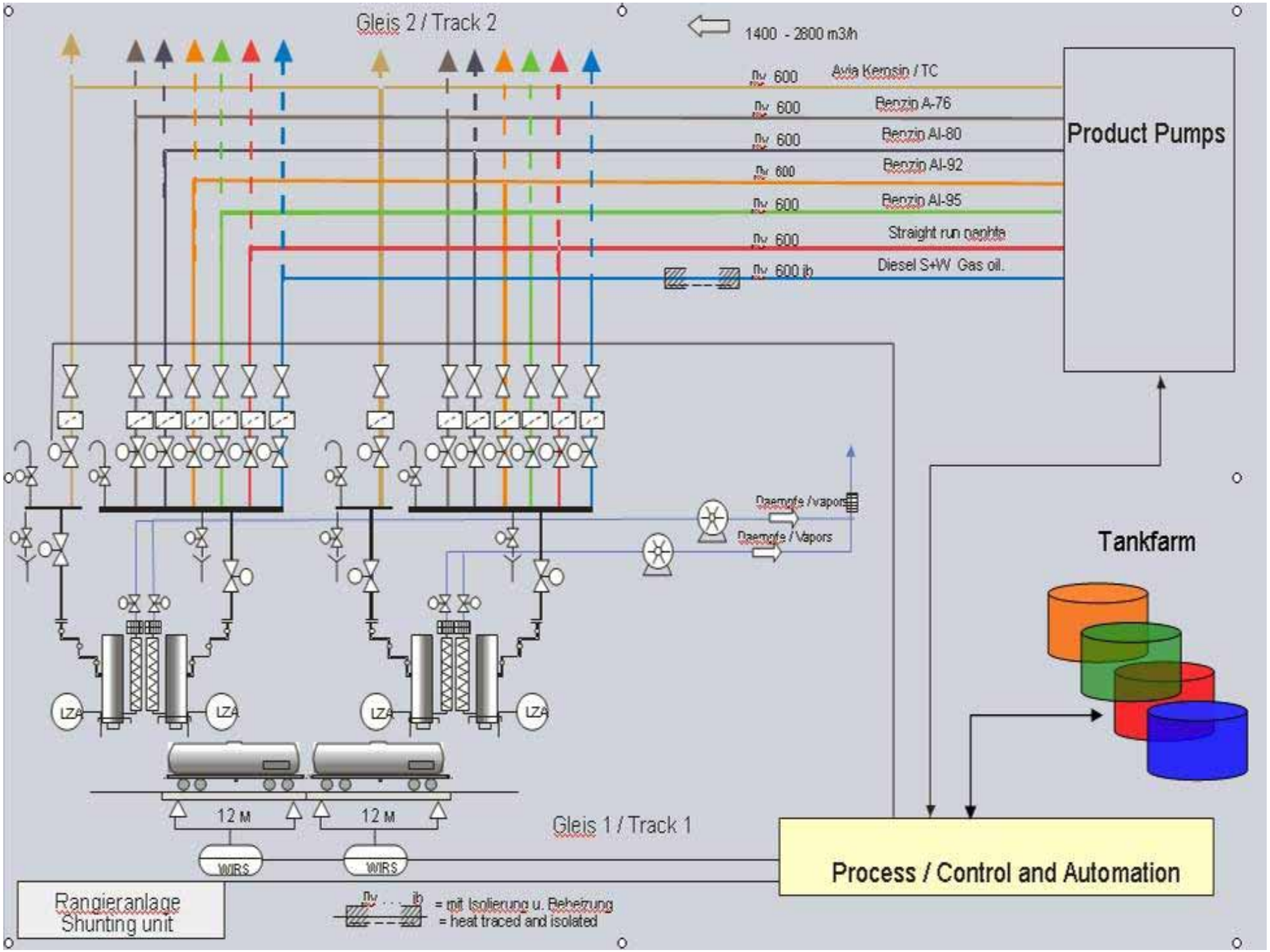
"ON SPOT" RAIL TANK FILLING

- TWO (2) LOADING PLACES ON TWO (2) RAIL TRACKS
- FOUR (4) LOADING KITS
- HYDRAULICALY POWERED LOADING TELESCOPE
- MAXIMAL LOADING CAPACITY 500 m3/h – 700 m^3/h








Gleis 2 / Track 2
1400 - 2800 m3/h
nv 600
Avia Kerosin / TC
nv 600
Benzin A-76
nv 600
Benzin AI-80
nv 600
Benzin AI-92
nv 600
Benzin AI-95
nv 600
Straight run naphta
nv 600 ib
Diesel S+W Gas oil.
Product Pumps
Tankfarm
Daempfe / vapors
Daempfe / Vapors
LZA
LZA
LZA
LZA
12 M
12 M
Gleis 1 / Track 1
WIRS
WIRS
Process / Control and Automation
Rangieranlage
Shunting unit
nv ... ib = mit Isolierung u. Beheizung
= heat traced and isolated

TANKER MOORINGS JETTIES

OMV - ISTRABENZ, Instalacija d.o.o. - Koper, SLOVENIA; 1996-2009

- Project for reconstruction and expansion of existing moorings for oil products

  The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

PORT OF KOPER, Koper, SLOVENIA; 2007-2009

- Design for new tanker mooring for liquid fuels, chemicals and alcohol at the terminal „Techem“

  The complete design documentation for manipulative pipelines and accessory infrastructure for the above stated units (fire protection system, civil engineering units, electrical design, designs for measurement and regulations, environmental protection…)

PORT OF KOPER, Koper, SLOVENIA; JET A1 TERMINAL FOR COMPANY "Q8" 2007-2009

- Design for additional construction of the existing mooring for bulk cargo: a new RC mooring late, bumpers, erecting arm for unloading JET A1 fuel and technological connecting…

OIL FEDERATION TERMINALS, Ploče, CROATIA (ex ENERGOPETROL PLOČE); 2005-2006

- Design documentation for the reconstruction and installation of new equipment on the existing mooring in Free zone Port of Ploče.
- Execution of main and detailed designs

ADRIATIC PIPELINE (JADRANSKI NAFTOVOD), CROATIA TERMINAL OMIŠALJ, ISLAND KRK 2008

- Design for reconstruction of pipelines and equipment on the existing moorings:
- Mooring 1 and Mooring 2 in order to increase handling capacities, increase security at work and increase security of the environmental protection.

JUGOPETROL KOTOR, Port of Bar, MONTENEGRO 2008-2009

- Design for delivery, storage and dispatch of bitumen for road building type 80 -100.
- Reconstruction and additional construction of the mooring for receiving and unloading of ships with bitumen.

LUKA PLOČE TRGOVINA, Port of Ploče, CROATIA 2008-2009

- Design documentation for installing new reloading arms on the existing mooring for liquid fuels at Free zone Ploče.

PORT of ŠIBENIK, Šibenik, CROATIA 2009

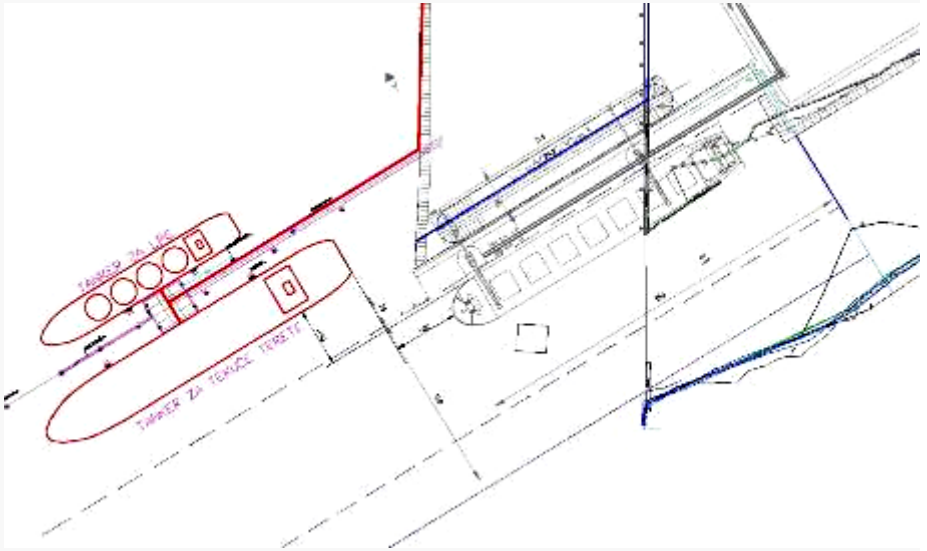
- Design documentation for reconstruction of Terminal damaged by war for reloading edible oil in port of Šibenik.
- Including design documentation for reconstruction of mooring on the location of Rogač coastline in port of Šibenik

OIL REFINERY BROD, Bosanski Brod, BOSNIA HERZEGOVINA 2010-2011

- Reconstruction and additional construction of the system for delivery and dispatch of oil products at the mooring on the river Sava.

PORT OF PLOČE, Ploče, CROATIA
(design in progress)

- Design documentation for new combined mooring for liquid cargo at the location Free zone Ploče.
- Basic design for issue of Location permit.



AERO SERVICES

INA AVIOSERVIS, Zagreb, CROATIA
Airport Pleso, Zagreb 2006-2007

A complete technical documentation for issuing location permit for relocation of loading measuring aggregate - dispenser for diesel and petrol.

Repair of tank V=5000m3 and collection site.

INA AVIOSERVIS, Zagreb, CROATIA
Pula Airport 2006-2007

Preparation of design for building permit for tank V=50m3 for aviation petrol AB 100 LL

Construction of eaves over pumps and filter/water separator.

Construction of JET -A1 input separator into the underground tanks.

INA AVIOSERVIS, Zagreb, CROATIA
Airport Zemunik, Zadar 2006-2007

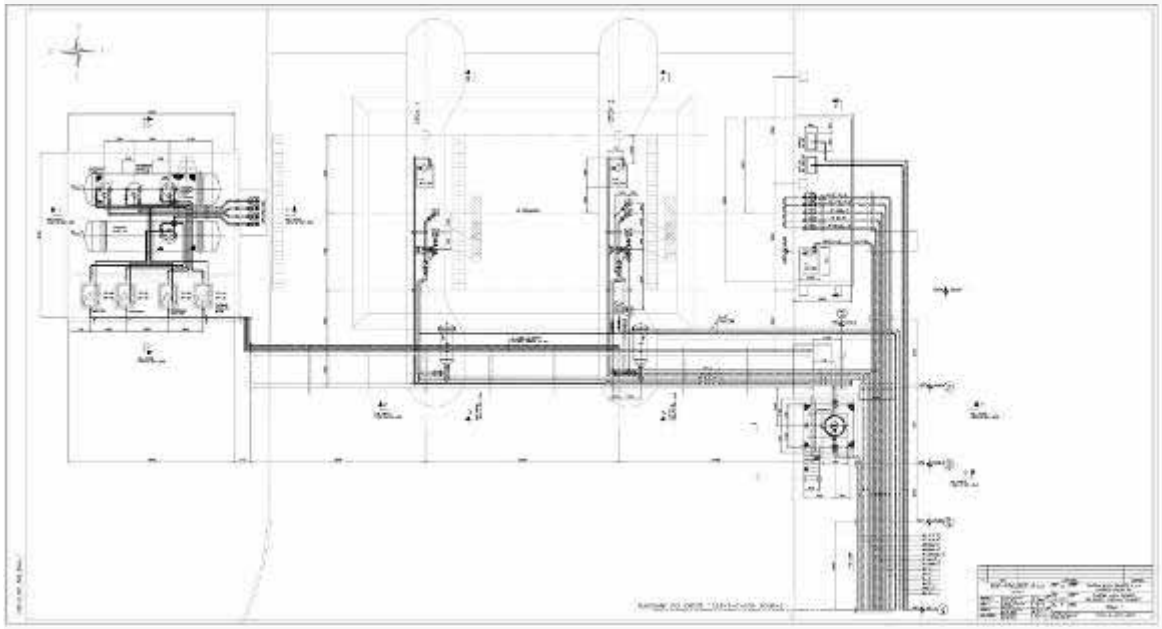
Preparation of design for carrying out exchange of pump aggregate
for aviation petrol AB 100 LL (AVGAS)

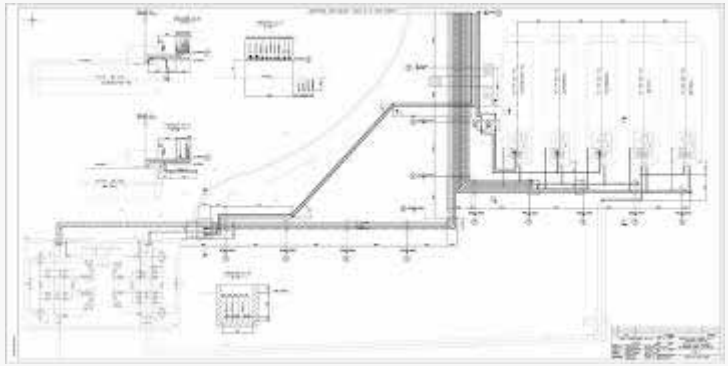
Construction of eaves above pumps and filter/water separator.

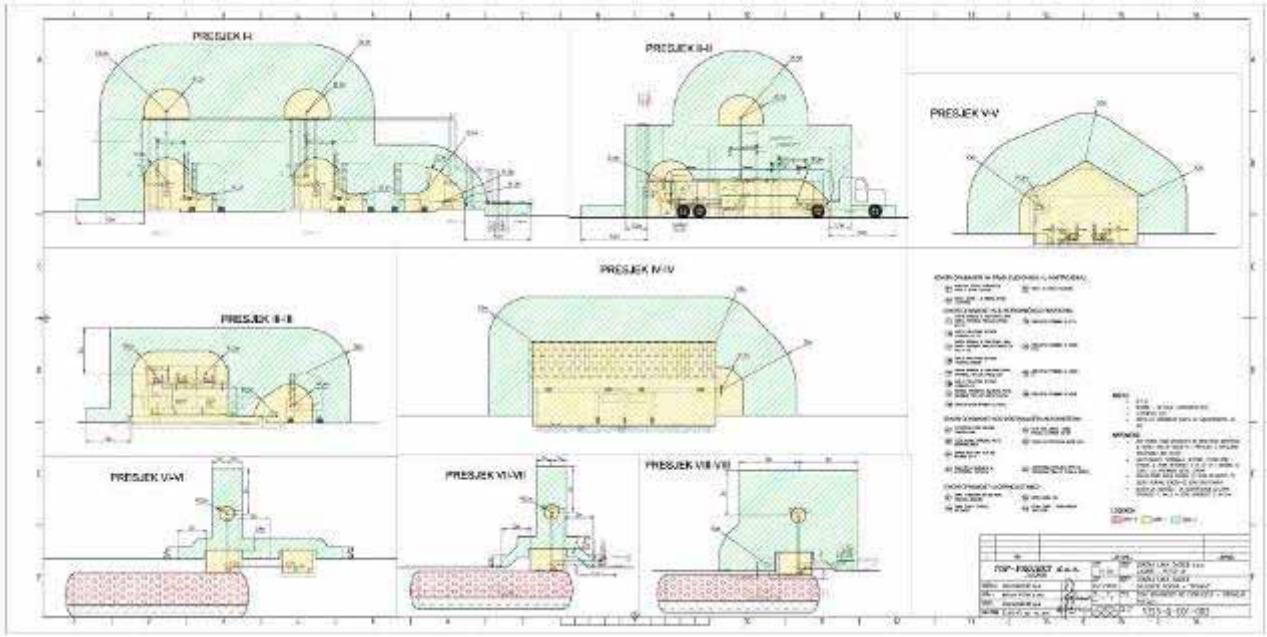
INA AVIOSERVIS, Zagreb, CROATIA
Airport Dubrovnik 2006-2007

Construction of JET -A1 input separator into the underground tanks.

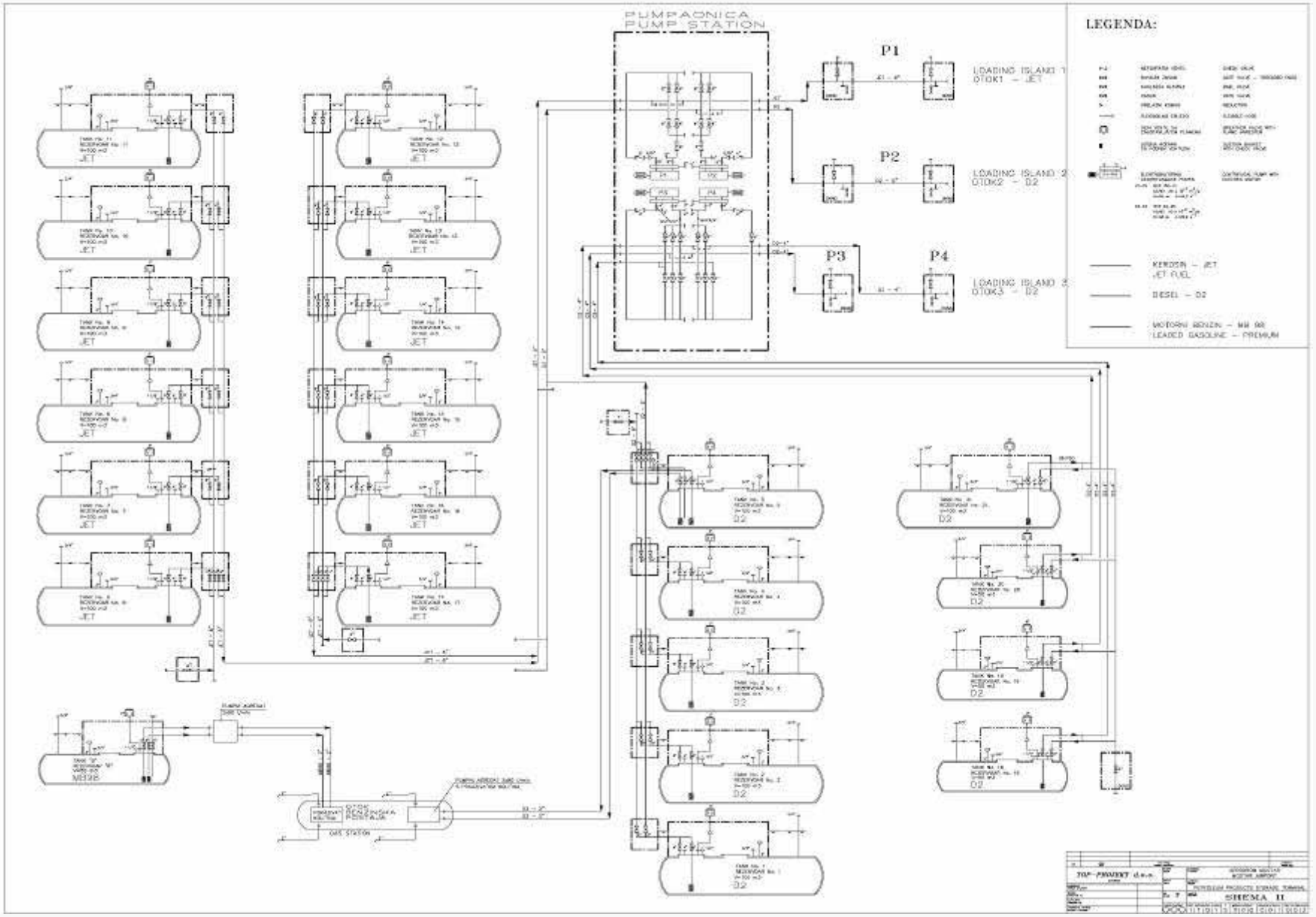
AIRPORT ZAGREB, Zagreb, CROATIA
2007-2008





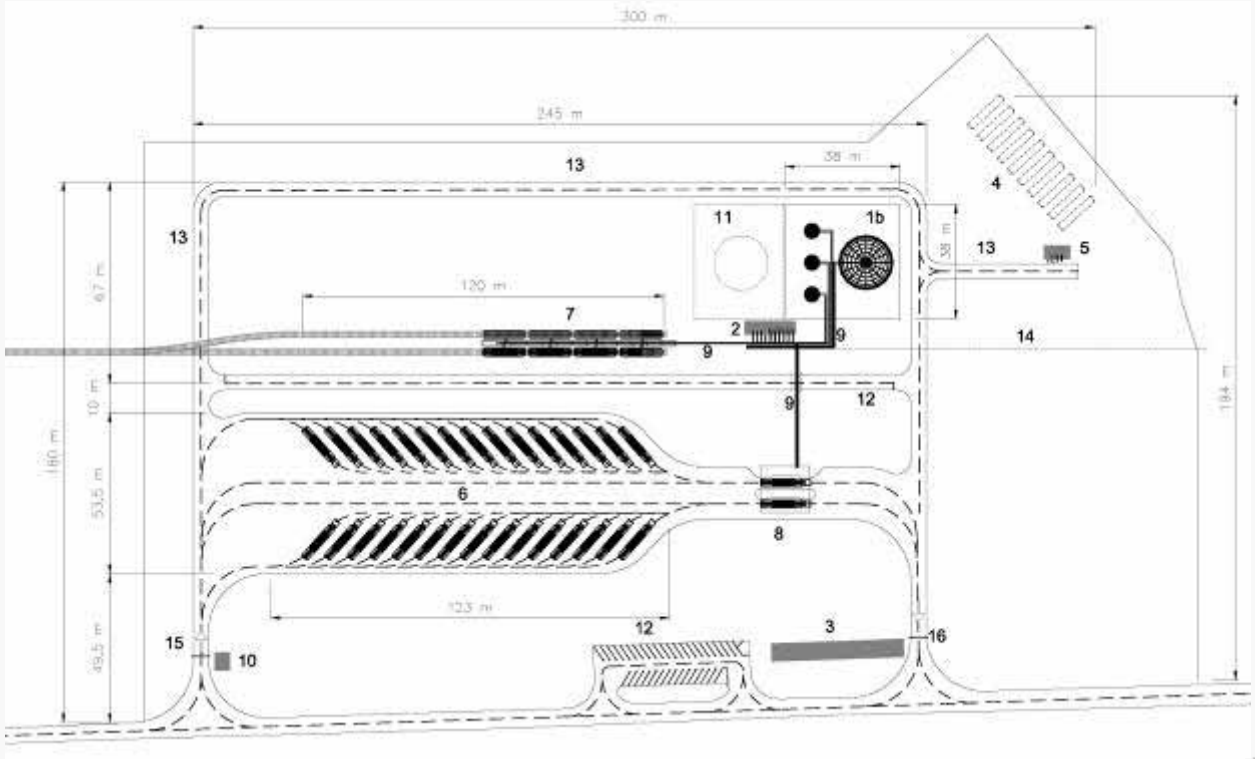


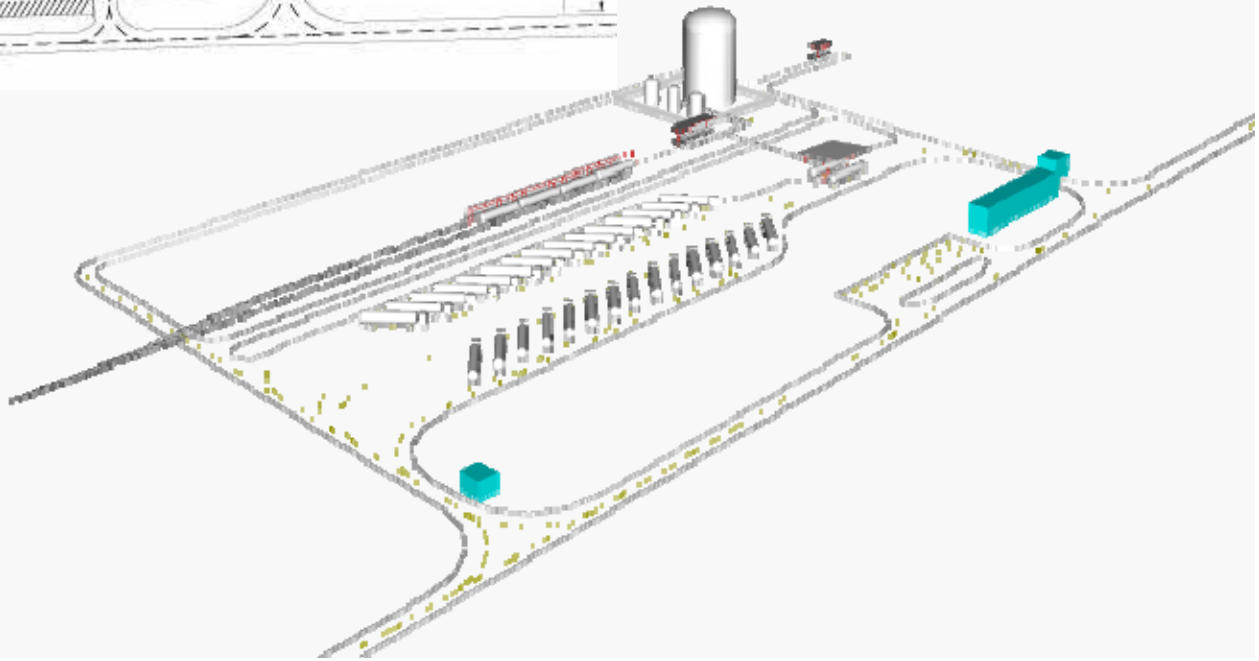
AIRPORT MOSTAR, Mostar, BOSNIA and HERZEGOVINA
1999-2000



AIRPORT PETROVEC, Skopje, MACEDONIA

1999 - 2000





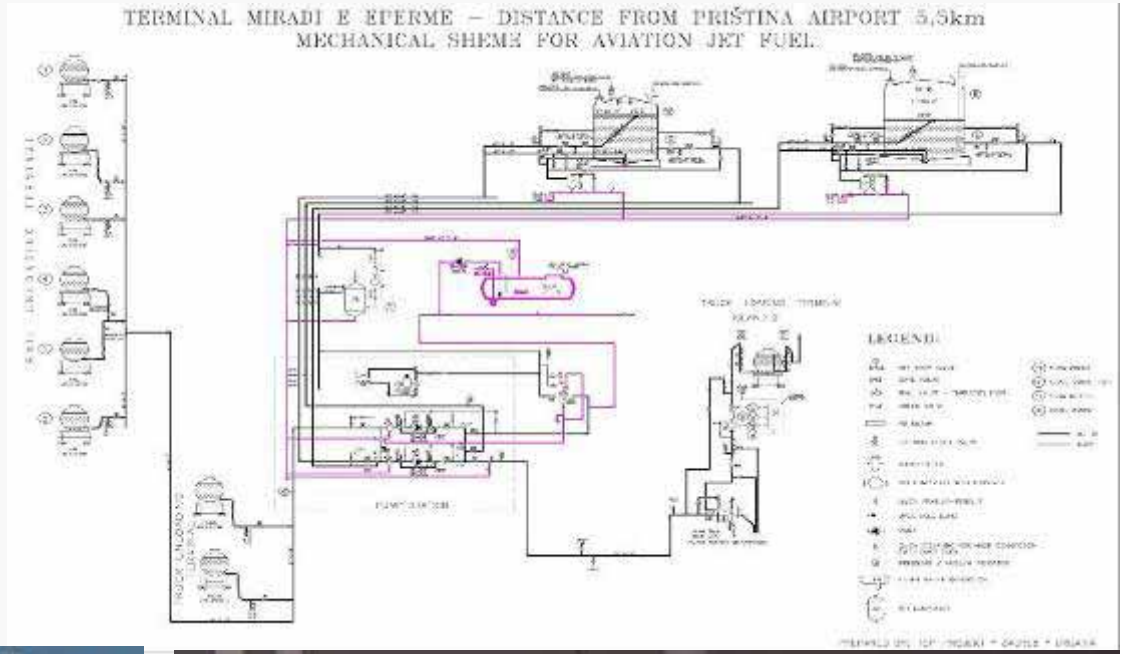
SNAKE DEPOT (INA KOSOVO), Priština, KOSOVO

Storage of oil products 1999-2007

INA's storage was completely destroyed in the summer of 1999 during the war. After that we started with erection and modernization. First phase for KFOR –French battalion for two fuels (jet fuel F-35, and diesel), second phase for US Army – modernization for usage of special jet fuel with automatic addition of additives and inhibitors. Top Projekt for this storage has made documentation for two phases and organized erection. Director of Top Project has been awarded with medal from French army.

MIRADI e EPËRME, Priština, KOSOVO, storage for oil products 2002-2007

Complete design documentation for jet fuel storage. Documents,
work and testing was carried out in accordance with the requirements of Air BP.
Tanks V=100m3 (dispatch) i V=1000m3 (supply)
Floating suction, filter/water separator (FWS), micro filter....

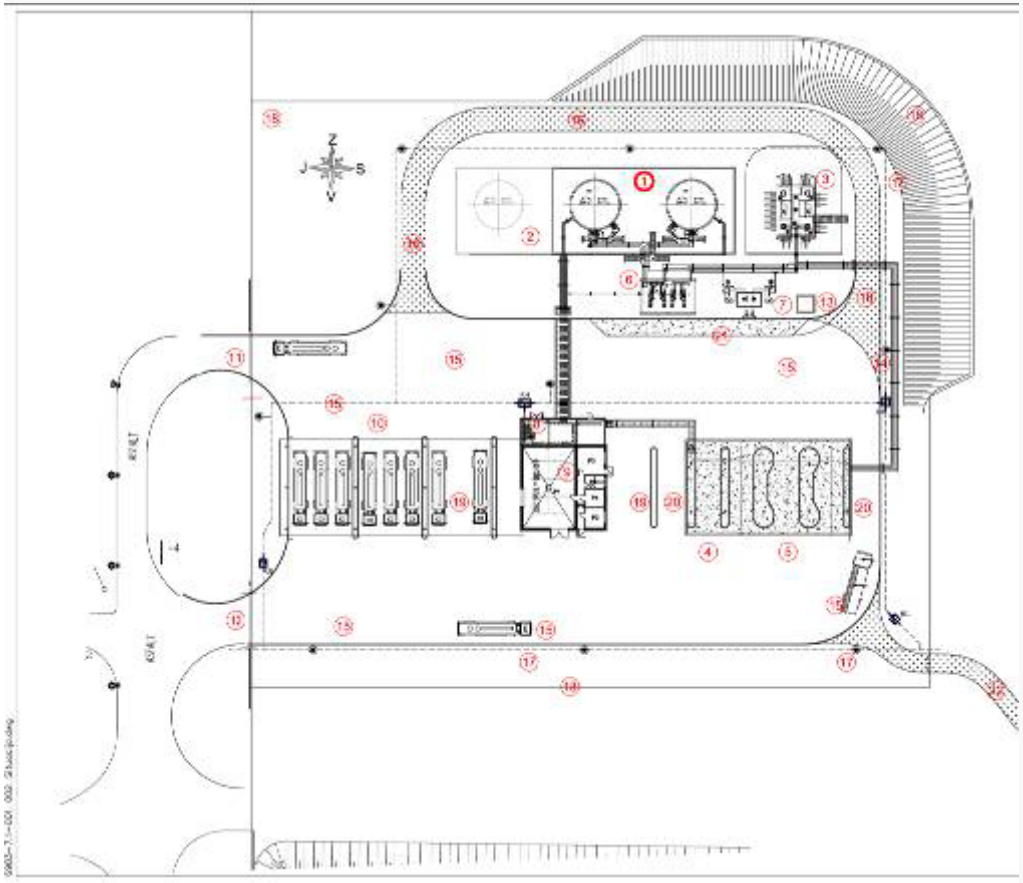


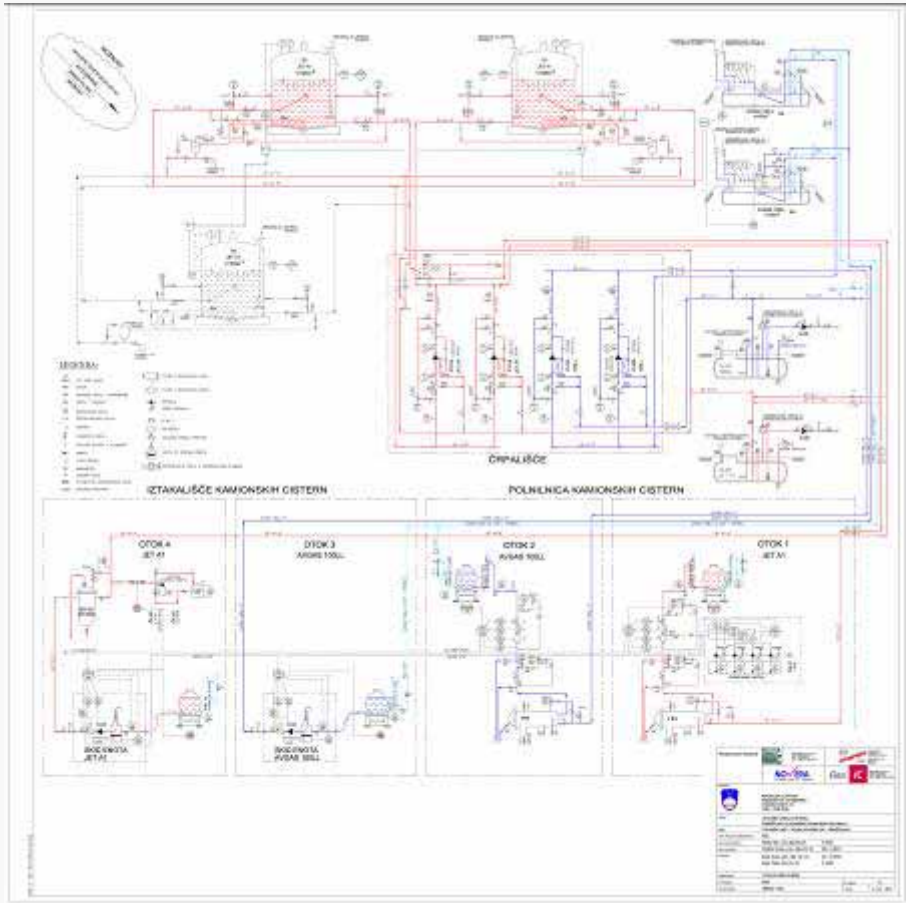
CERKLJE AIRPORT, SLOVENIA,

Storage for aviation fuels

2010 - .....

COMPLETE DESIGN
DOCUMENTATION FOR JET A-1
AND AVGAS FUEL.

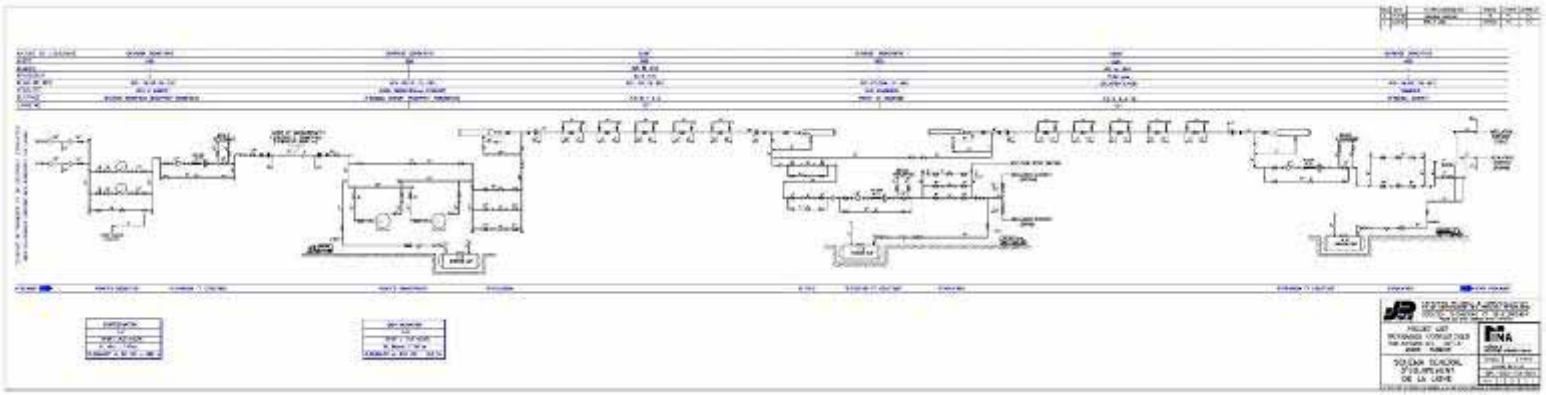


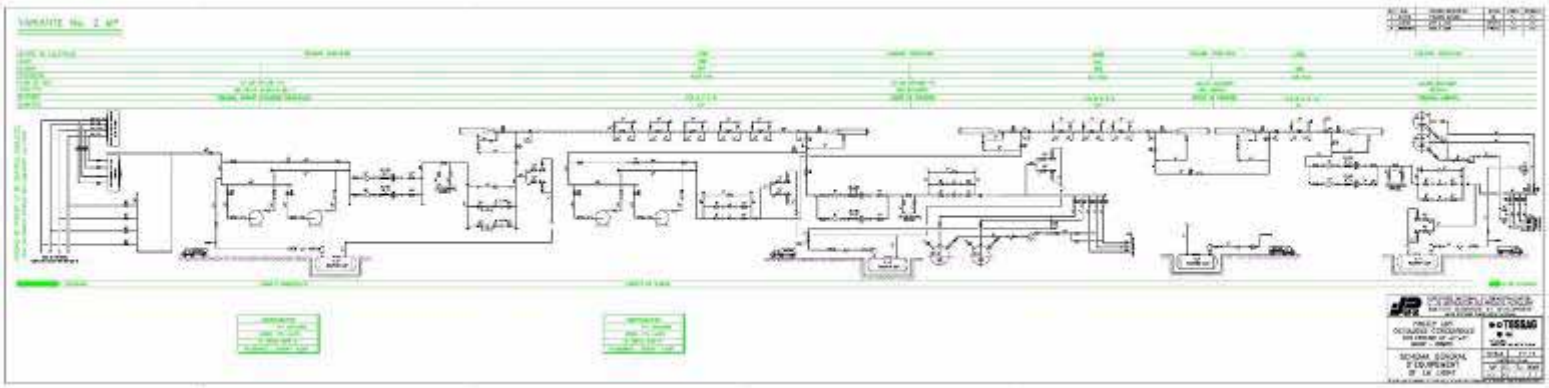


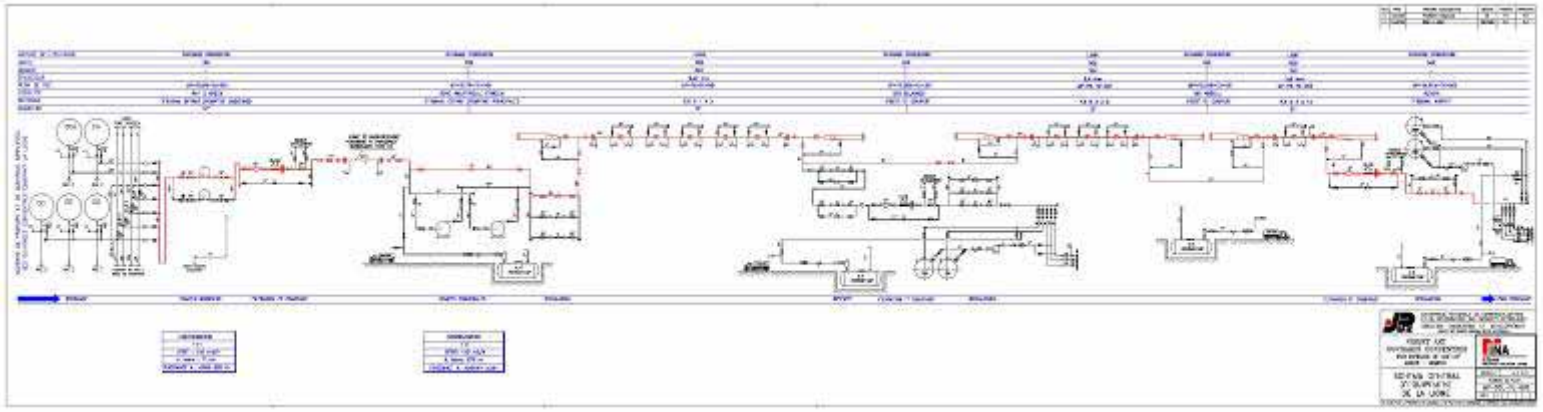
LPG

ARZEW - SIDI BEL ABBES - TLEMCEN, ALGERIA, 2002

- Design for pipeline for LPG 10"/8'', Arzew Sidi Bel Abbes / Tlemcen 162 km







- Design for liquid multiproduct pipeline 12”/10”/8’’

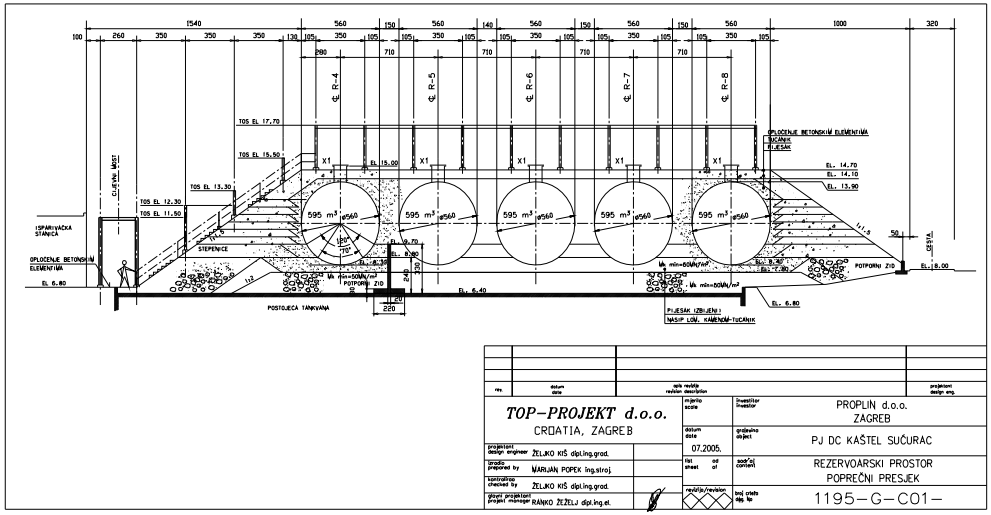
MIRADI e EPËRME, Priština, KOSOVO – Storage for LPG 2001-2002

- Design documentation and supervision over the works on storage and filling station for propane-butane gas

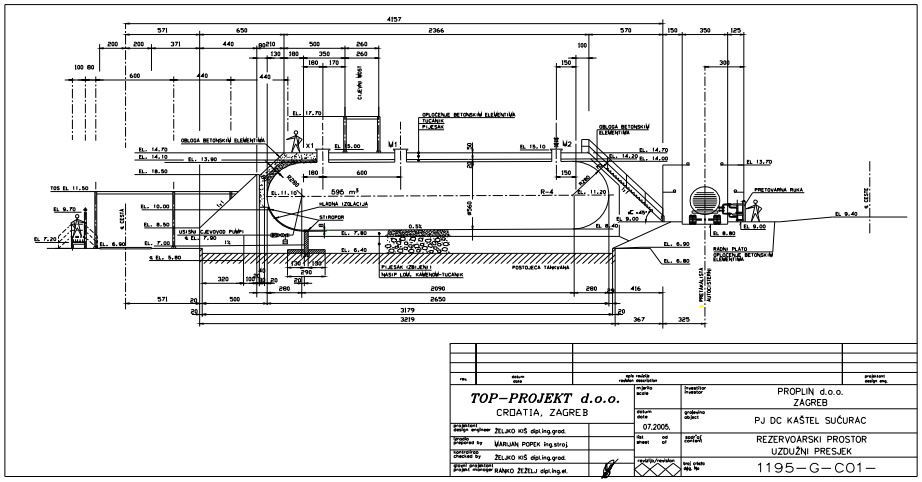
PROplin, Zagreb, CROATIA
Distribution center KAŠTEL SUĆURAC 2004-2005

Complete design for LPG storage tanks

Conceptual design
Basic design
Design for erection



LPG tanks, V = 5 x 595m^3
Truck tanks unloading terminal, Jetty, connection to existing instalation



PROplin, Zagreb, CROATIA – Distribution center ZAGREB 2004-2008

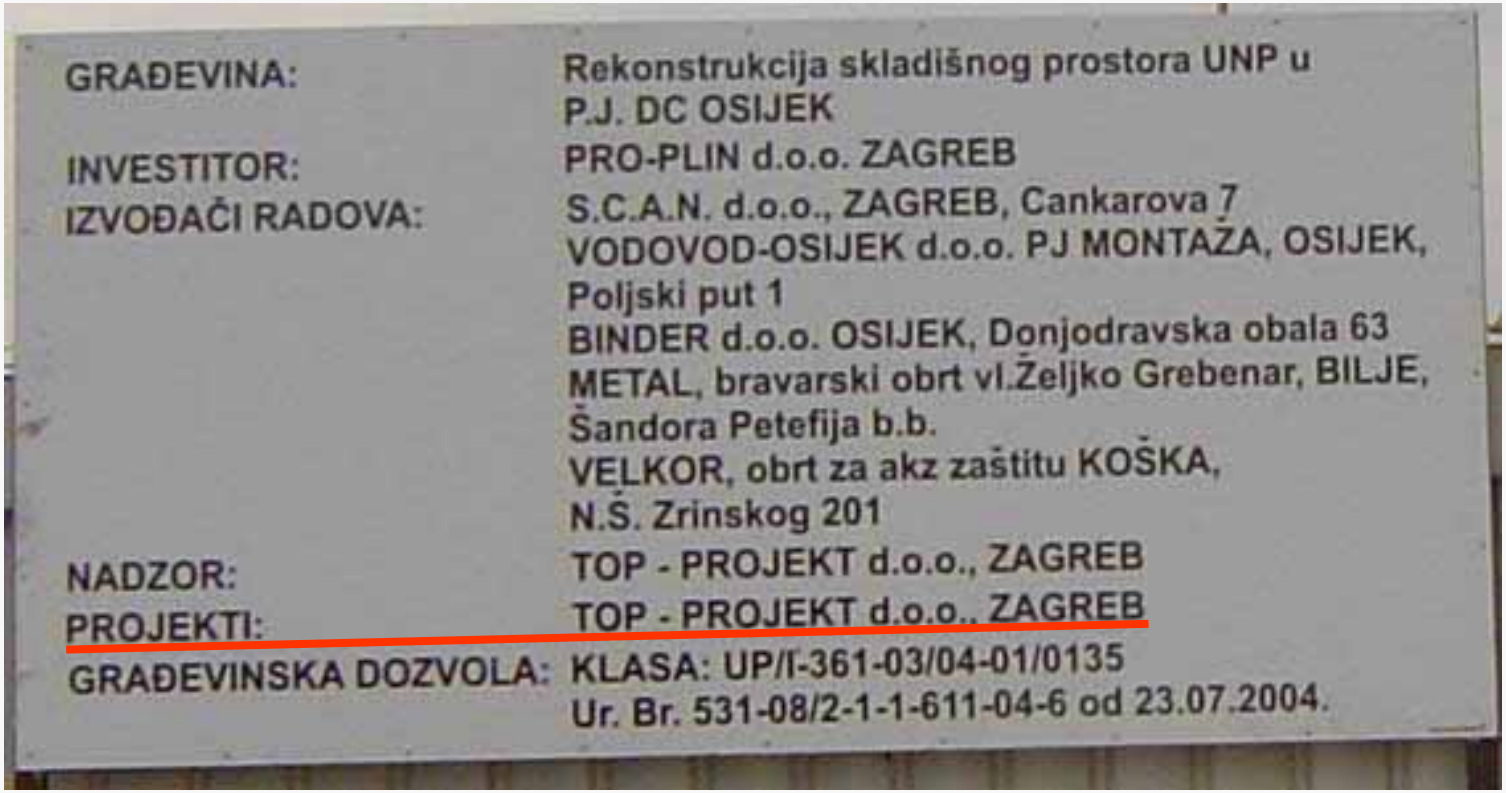
Complete design for LPG storage tanks

Conceptual design, Basic design, Design for erection

LPG tanks, V = 2 x 1000 m^3 (sphere) , V = 150m^3, pump compressor station, truck tanks unloading unit

PROplin, Zagreb, CROATIA - Distribution center OSIJEK 2004-2005

Complete design for LPG storage tanks
Truck tank reloading unit
Rail tank reloading unit




ARG

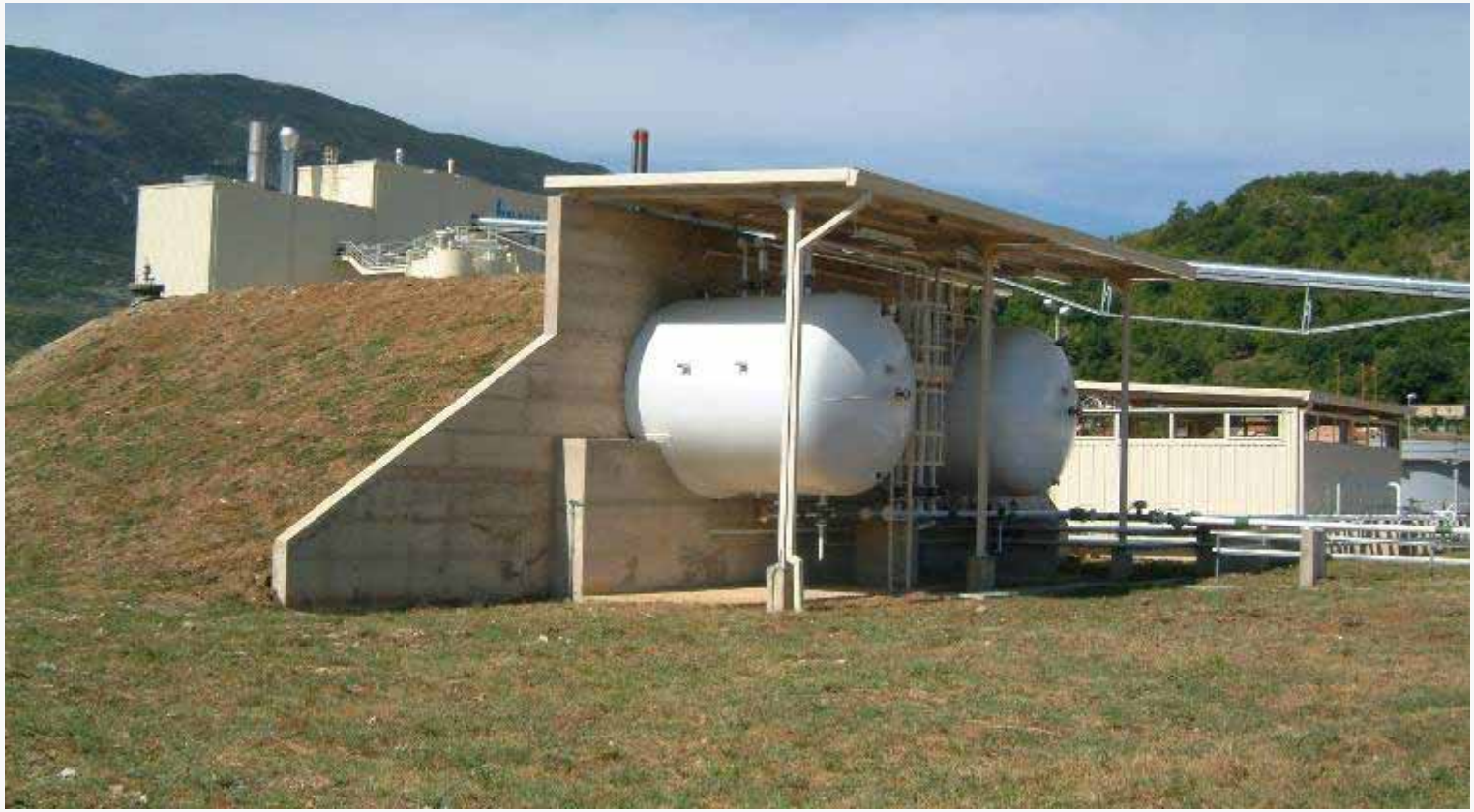
KOKSNO KEMIJSKI KOMBINAT (coke & chemical plant), Lukavac, BOSNIA and HERZEGOVINA– n-butane gas 2005

Complete design for n-butane storage tanks, rail tanks unloading unit, pump compressor station...

Project design for extension of n-butane storage facilities. N-butane tanks 5 x 200m3 , pump compressor station, unloading railway truck tanks. Design scope: Basic design, main design and detail design with procurment of location and construction permission.

KNAUF, Knin, CROATIA – Plaster factory 2005

Complete design for LPG storage tanks, rail / truck tank unloading unit, pump compressor station...



BRALA TRADE, Islam Latinski, Zadar, CROATIA

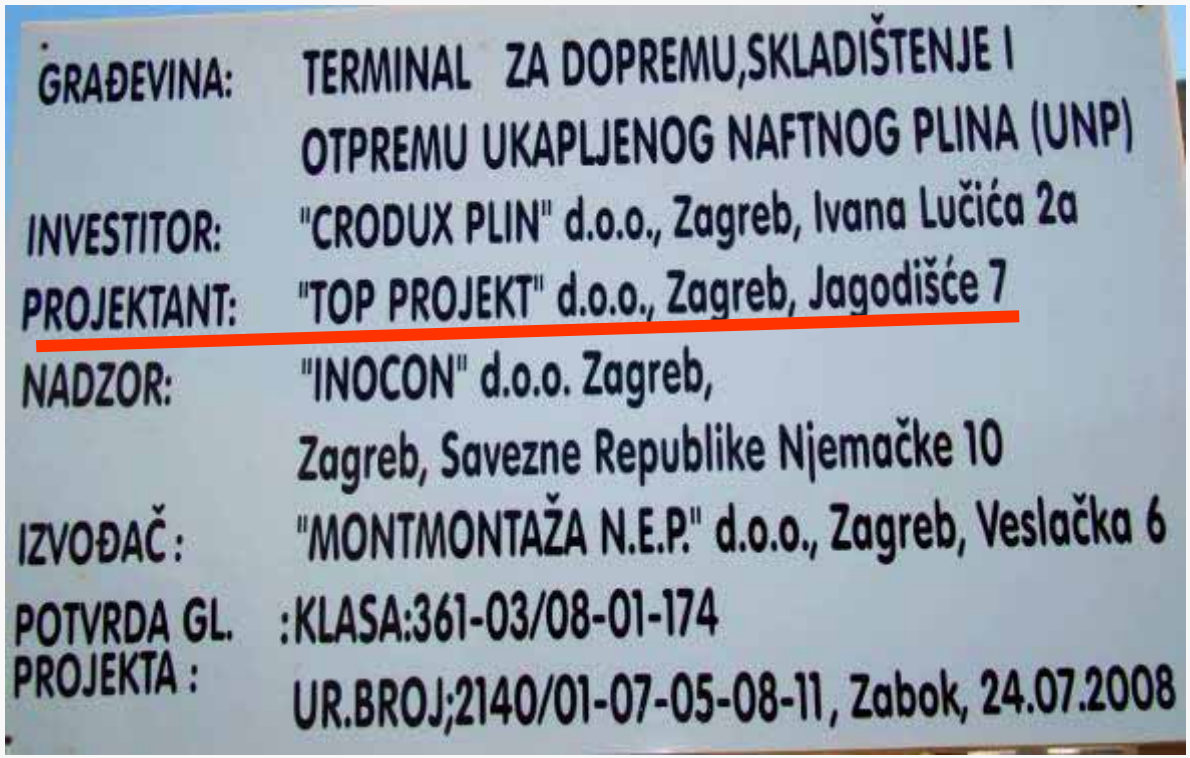
Gas plant 2004-2006

Complete design for LPG storage tanks, truck unloading terminal pump compressor station...

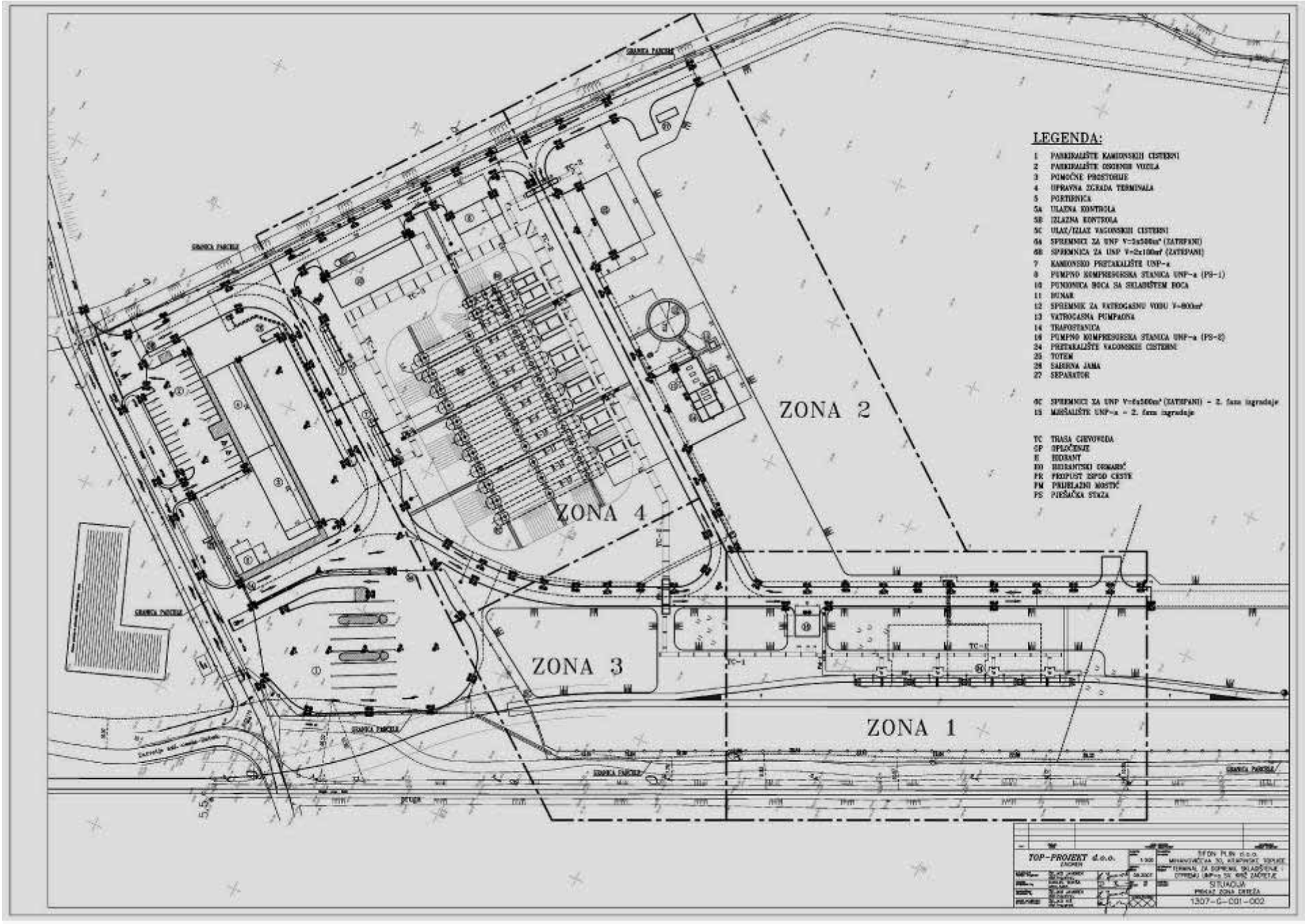
LPG tanks, V=2 x 150 m^3,V=10 x 86 m^3, Truck unloading terminal, bottles filling, pump compressor station....

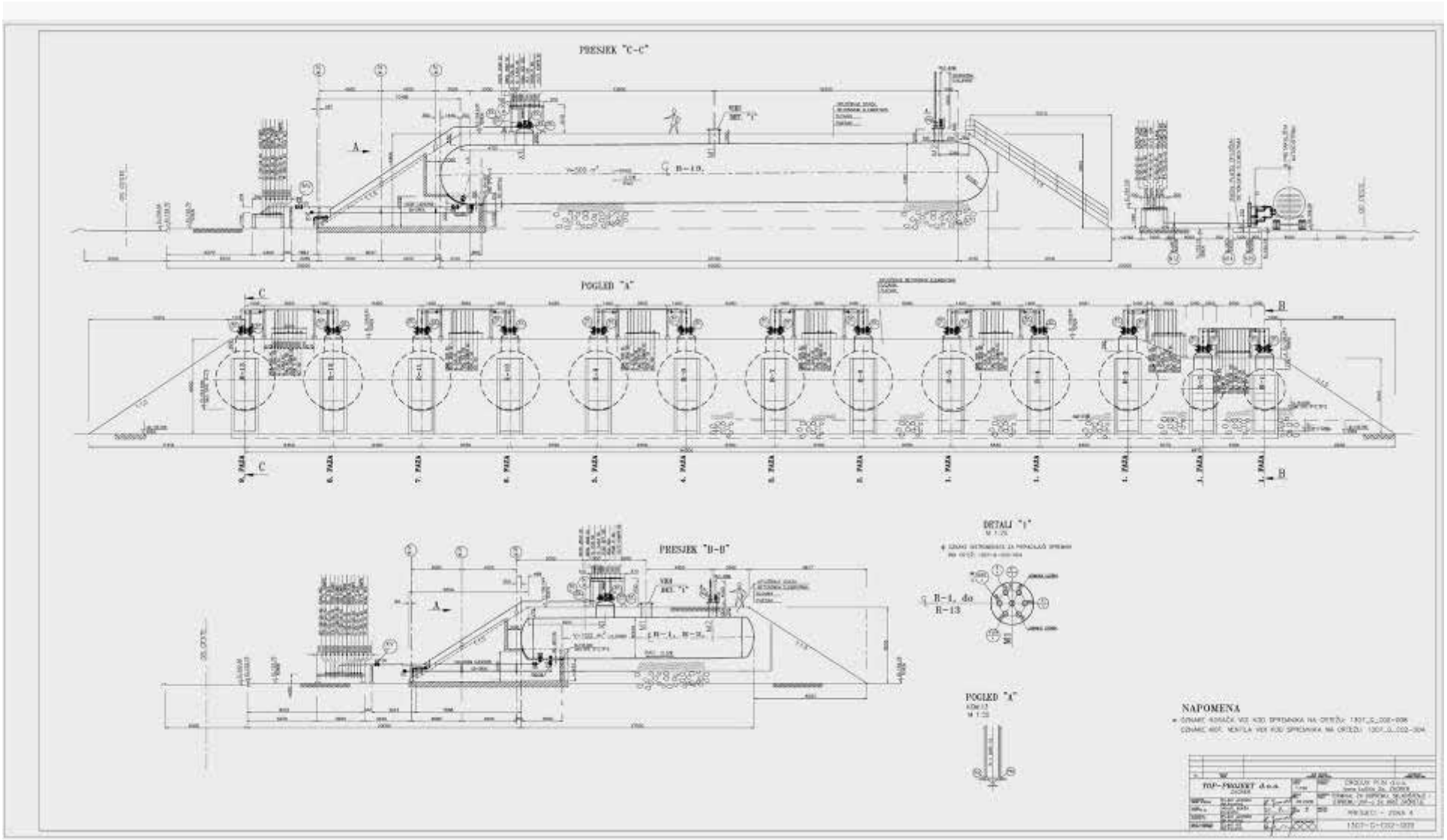
CRODUX PLIN, Zagreb, CROATIA
LPG terminal PUSTODOL 2004-.....

Complete design documentations for whole LPG storage



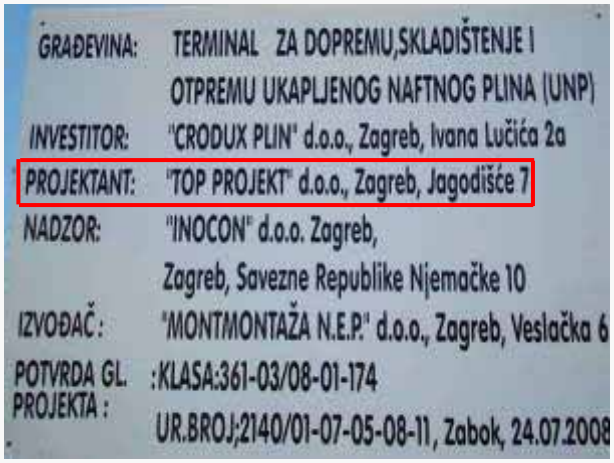
LPG tanks (fully mounded), V =11 x 500 m^3, V = 2 x 110 m^3,
Rail tanks reloading unit, Truck tanks reloading unit, bottle filling, pump compressor stations, LPG/air mixture zone


LEGENDA:
1 PARKIRALIŠTE KAMIONSKIH CISTERNI
2 PARKIRALIŠTE OSOBNIH VOZILA
3 POMOĆNE PROSTORIJE
4 UPRAVNA ZGRADA TERMINALA
5 PORTIRNICA
5A ULAZNA KONTROLA
5B IZLAZNA KONTROLA
5C ULAZ/IZLAZ VAGONSKIH CISTERNI
6A SPREMNICI ZA UNP V=2x500m³ (ZATRPANI)
6B SPREMNICA ZA UNP V=2x100m³ (ZATRPANI)
7 KAMIONSKO PRETAKALIŠTE UNP-a
8 PUMPNO KOMPRESORSKA STANICA UNP-a (PS-1)
10 PUMPIONICA BOCA SA SKLADIŠTEM BOCA
11 BUNAR
12 SPREMNIK ZA VATROGASNU VODU V=800m³
13 VATROGASNA PUMPAONA
14 TRAFOSTANICA
16 PUMPNO KOMPRESORSKA STANICA UNP-a (PS-2)
24 PRETAKALIŠTE VAGONSKIH CISTERNI
25 TOTEM
26 SABIRNA JAMA
27 SEPARATOR
6C SPREMNICI ZA UNP V=6x500m³ (ZATRPANI) - 2. faza izgradnje
15 MIJEŠALIŠTE UNP-a - 2. faza izgradnje
TC TRASA CIJEVOVODA
SP SPLOČENJE
H HIDRANT
HO HIDRANTSKI ORMARIĆ
PR PROPUST ISPOD CESTE
PM PRIJELAZNI MOSTIĆ
PS PJEŠAČKA STAZA
ZONA 1
ZONA 2
ZONA 3
ZONA 4
GRANICA PARCELE
TOP-PROVENT d.o.o.
ZAGREB
SITUACIJA
PRIKAZ ZONA GRADNJE
1307-G-001-002



$$V = 2 \times 110 m^3 + 11 \times 550\ m^3$$

$$V_{total} = 5.700\ m^3$$


GRAĐEVINA: TERMINAL ZA DOPREMU,SKLADIŠTENJE I
OTPREMU UKAPLJENOG NAFTNOG PLINA (UNP)
INVESTITOR: "CRODUX PLIN" d.o.o., Zagreb, Ivana Lučića 2a
PROJEKTANT: "TOP PROJEKT" d.o.o., Zagreb, Jagodišće 7
NADZOR: "INOCON" d.o.o. Zagreb,
Zagreb, Savezne Republike Njemačke 10
IZVOĐAČ: "MONTMONTAŽA N.E.P." d.o.o., Zagreb, Veslačka 6
POTVRDA GL. PROJEKTA : :KLASA:361-03/08-01-174
UR.BROJ;2140/01-07-05-08-11, Zabok, 24.07.2008








4
5
6

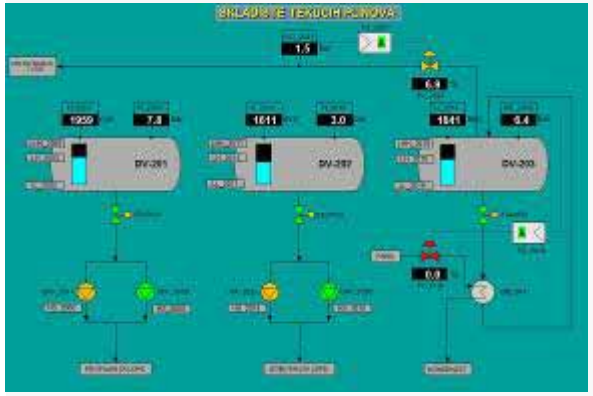

TFB-100-01

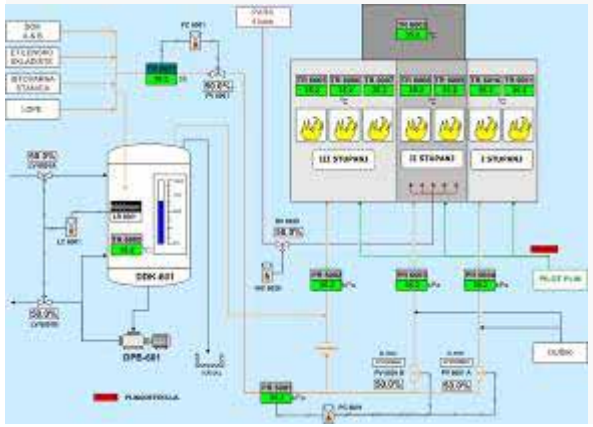
DINA PETROKEMIJA d.d., ISLAND KRK, CROATIA

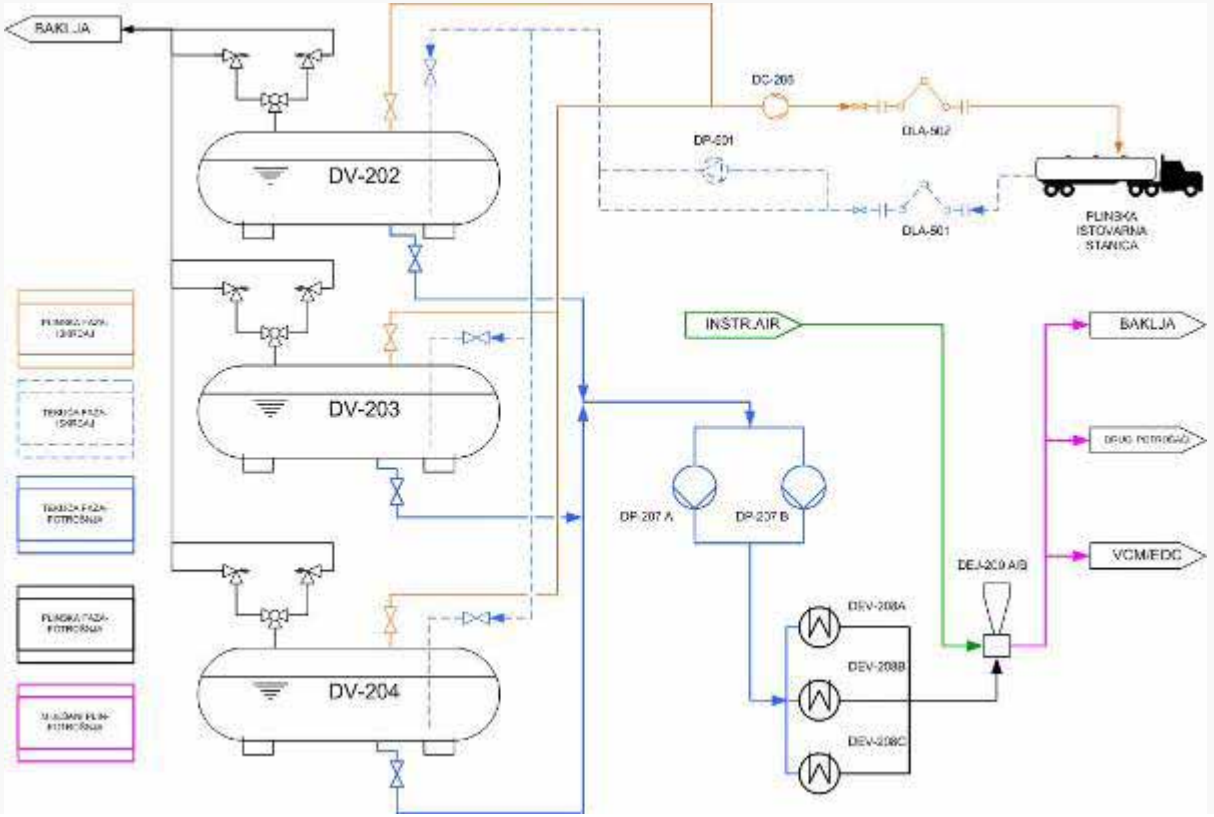
- LPG TERMINAL EXPANSION AND MODERNISATION
- VCM/EDC FURNACE RECONSTRUCTION
- NATURAL GAS INSTALATION

LPG TERMINAL EXPANSION AND MODERNISATION

The complete design documentation for tanks, manipulative pipelines, evaporators, pumps and accessory infrastructure



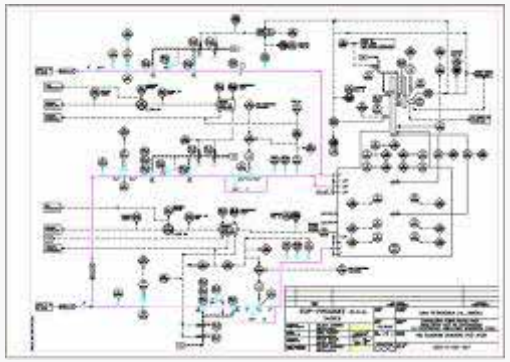


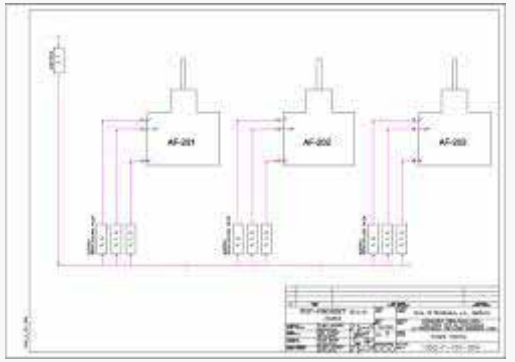


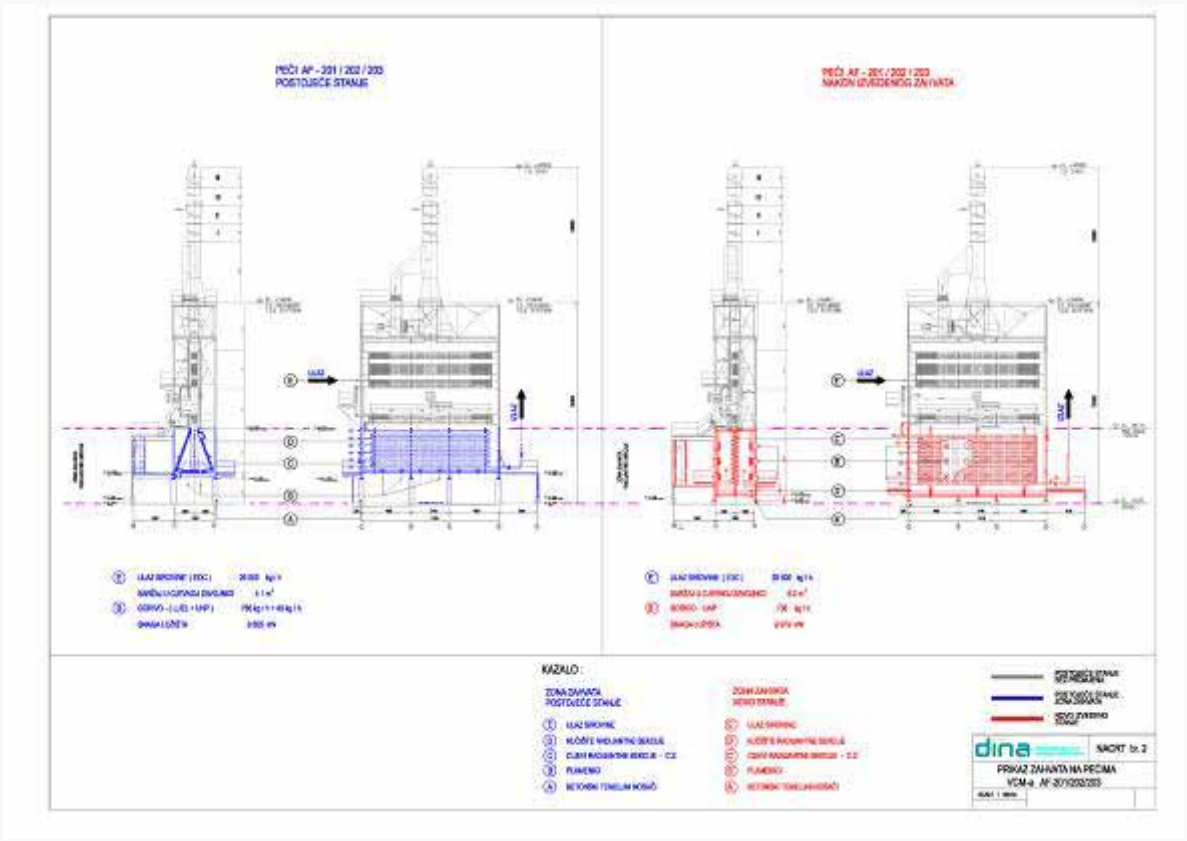
VCM/EDC FURNACE RECONSTRUCTION

The complete design documentation for tanks, manipulative pipelines, evaporators, pumps and accessory infrastructure

- *basic design for location permit*
- *main designe for building permit*
- *as build documentation*



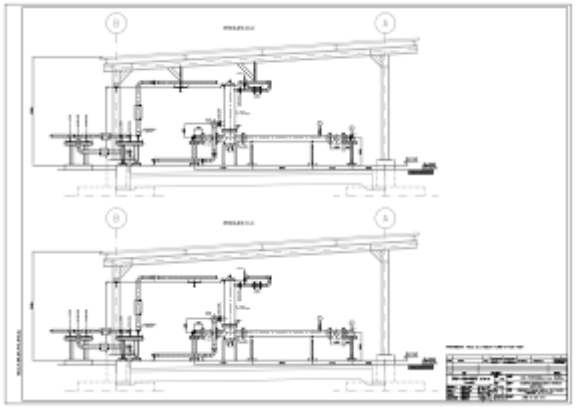




NATURAL GAS PIPELINE, PRESSURE REDUCING & METERING STATION

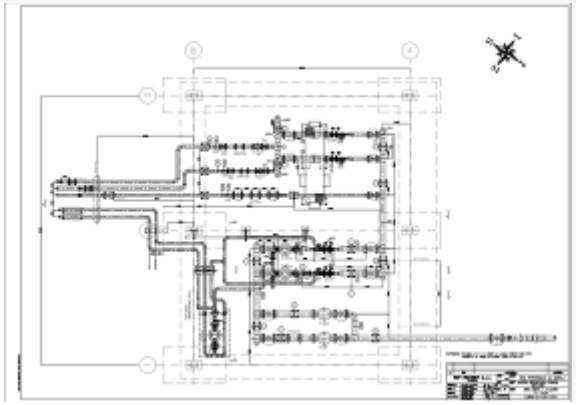
NG pressure reducing station

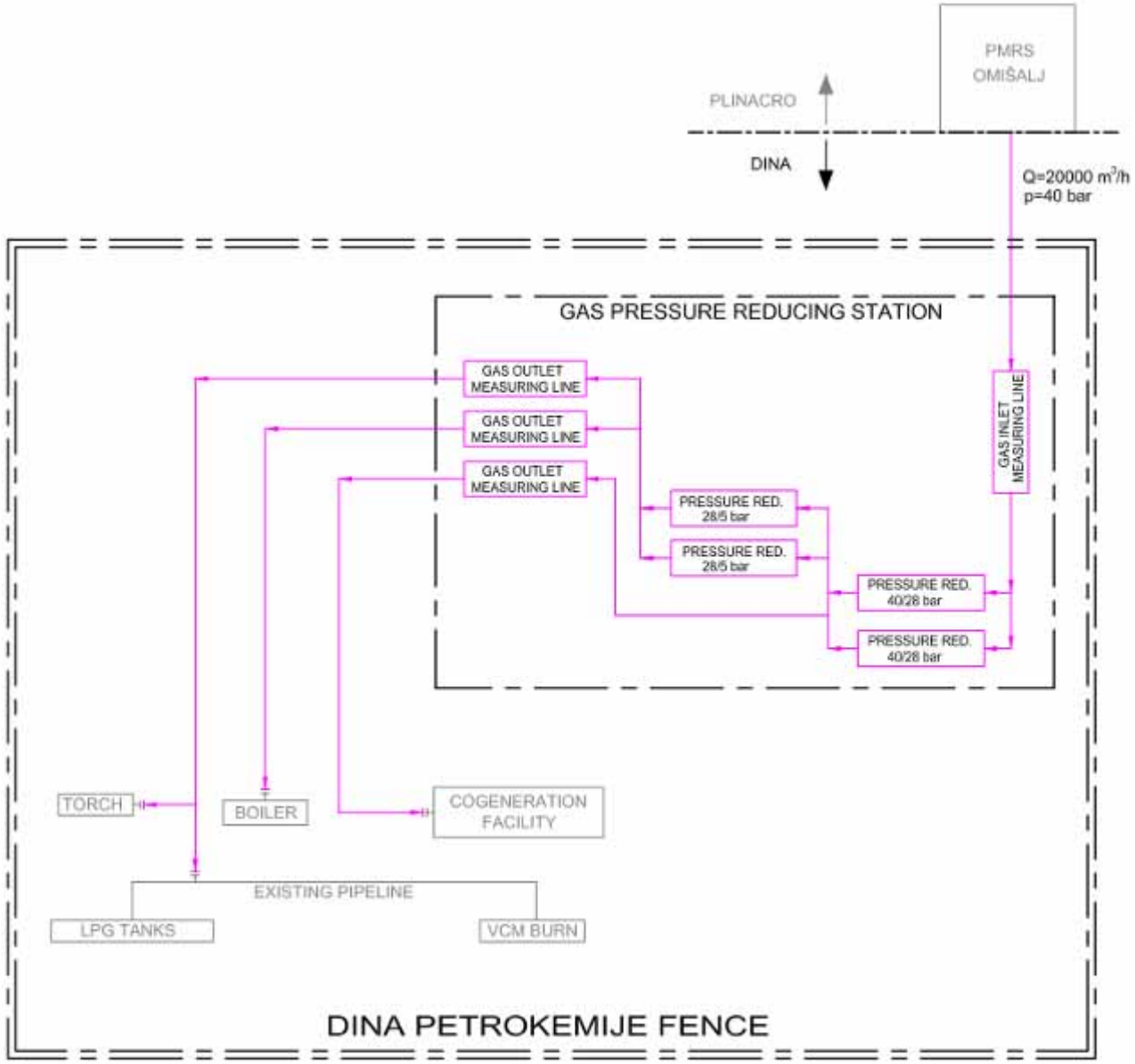
CROSS - SECTIONS



NG pressure reducing station

LAY OUT



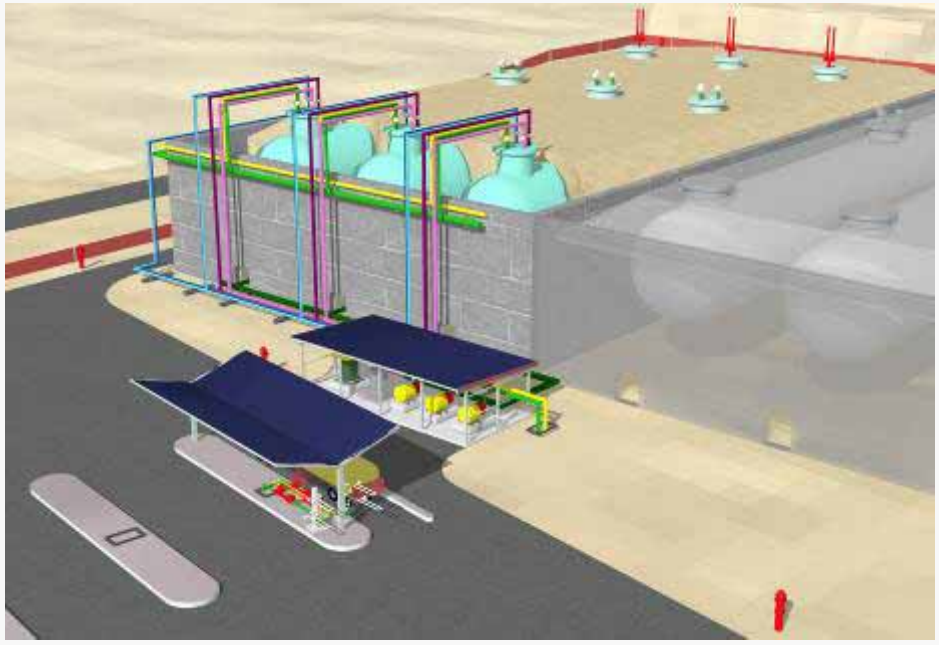


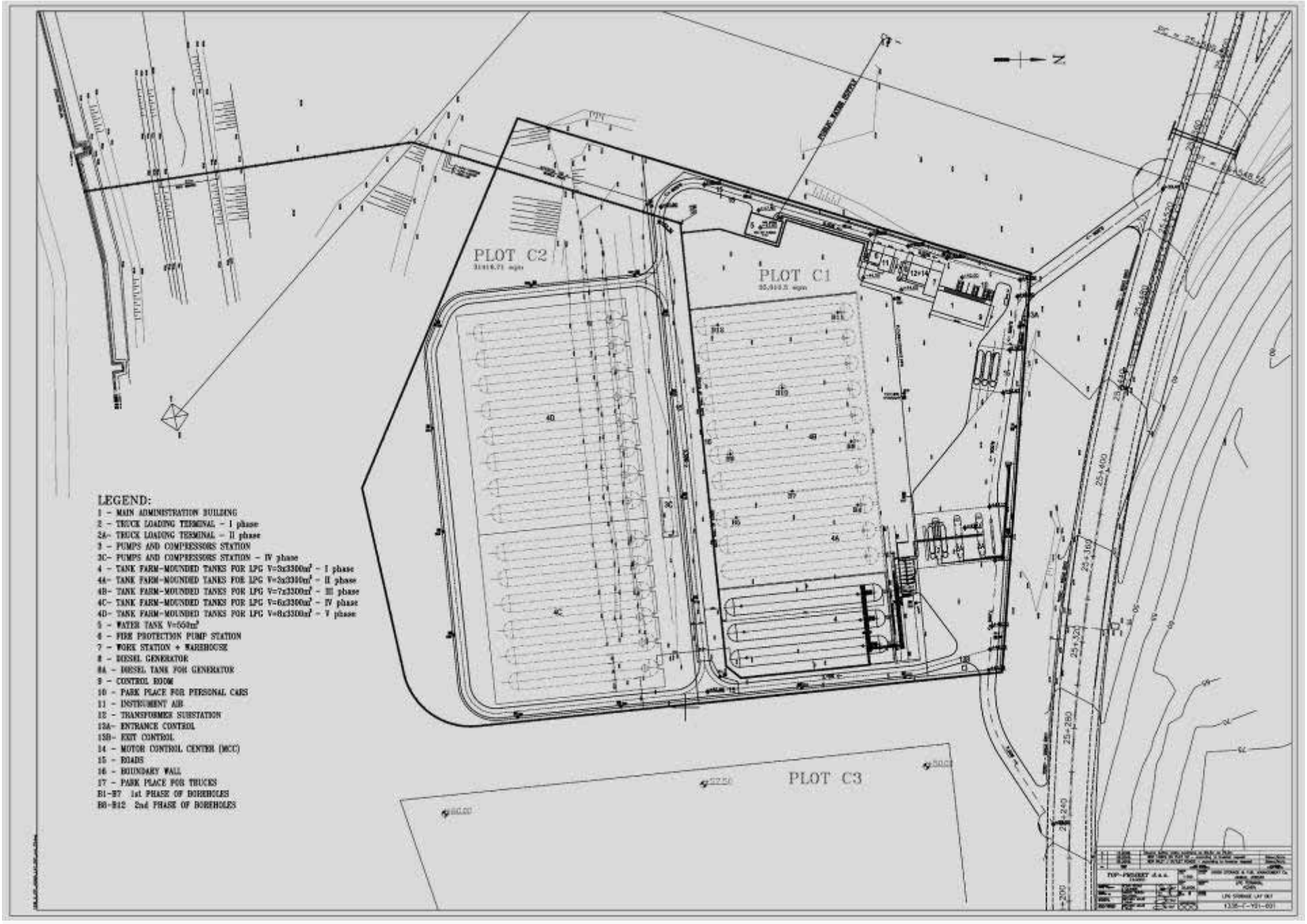
UNION STORAGE & FUEL MANAGEMENT, Amman, JORDAN

LPG Storage Aqaba, Jordan 2007-.....

Complete design documentations for whole LPG storage

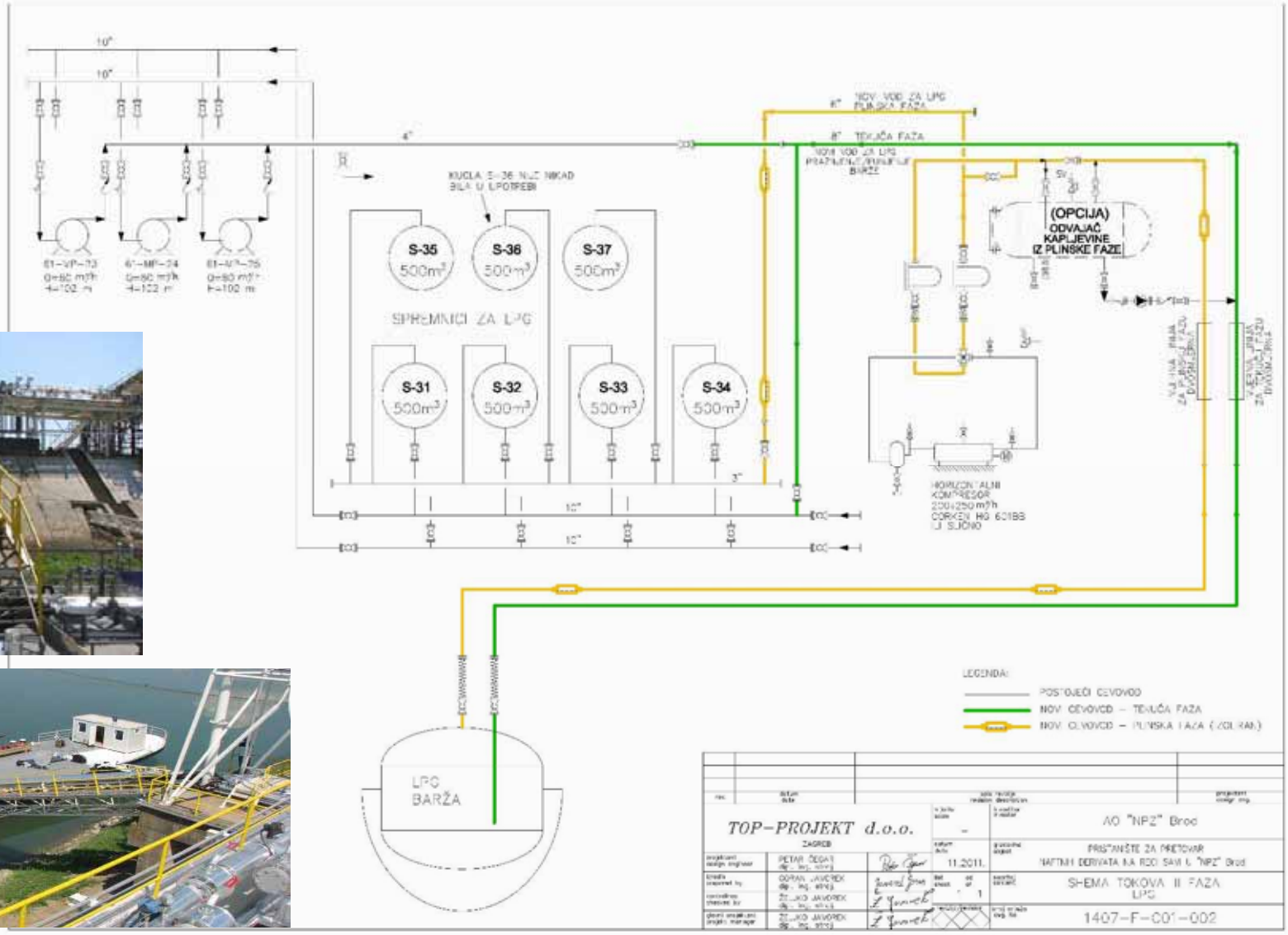
- LPG tanks, V = 3 x 3.480 m^3, (1. phase)
- LPG tanks, V = 3 x 3.480 m^3, (2. phase)
- LPG tanks, V = 6 x 3.480 m^3, (3. phase)
- Jetty, 2500 m pipeline
- Truck tank loading unit
- Pump compressor station
- Fire protection




PLOT C2
PLOT C1
PLOT C3
N
LEGEND:
1 - MAIN ADMINISTRATION BUILDING
2 - TRUCK LOADING TERMINAL - I phase
2A- TRUCK LOADING TERMINAL - II phase
3 - PUMPS AND COMPRESSORS STATION
3C- PUMPS AND COMPRESSORS STATION - IV phase
4 - TANK FARM-MOUNDED TANKS FOR LPG V=3x3300m³ - I phase
4A- TANK FARM-MOUNDED TANKS FOR LPG V=3x3300m³ - II phase
4B- TANK FARM-MOUNDED TANKS FOR LPG V=7x3300m³ - III phase
4C- TANK FARM-MOUNDED TANKS FOR LPG V=6x3300m³ - IV phase
4D- TANK FARM-MOUNDED TANKS FOR LPG V=8x3300m³ - V phase
5 - WATER TANK V=660m³
6 - FIRE PROTECTION PUMP STATION
7 - WORK STATION + WAREHOUSE
8 - DIESEL GENERATOR
8A - DIESEL TANK FOR GENERATOR
9 - CONTROL ROOM
10 - PARK PLACE FOR PERSONAL CARS
11 - INSTRUMENT AIR
12 - TRANSFORMER SUBSTATION
13A- ENTRANCE CONTROL
13B- EXIT CONTROL
14 - MOTOR CONTROL CENTER (MCC)
15 - ROADS
16 - BOUNDARY WALL
17 - PARK PLACE FOR TRUCKS
B1-B7 1st PHASE OF BOREHOLES
B8-B12 2nd PHASE OF BOREHOLES

OIL REFINERY BROD, Bosanski Brod, BOSNIA and HERZEGOVINA ***2011 - .....***

- Reconstruction and additional construction of the system for delivery and dispatch of LPG at the mooring on the river Sava. **(IN DESIGN PHASE)**




LNG

TOP PROJEKT STRATEGY IN DEVELOPING OF LNG FACILITIES

- TOP PROJEKT with it's subcontractors: University of Rijeka, (Faculty of Engineering, Faculty of Economics), Institute for water of the Republic of Slovenia, Institut IGH dd Split (Civil Engineering), and prominent experts can obtain:
  - Conceptual Proposal / Initaial solution
  - Conceptual Designes
  - Feasibility Studies
  - Environmental Impact Studies
- TOP PROJEKT has close business relations with world leaders concerning LNG such as: Penspen UK and Japan NGA. Also our consultants work as experts on worlds largest LNG carriers.
- TOP PROJEKT with consultants is capable to manage activities for:
  - Basic Design
  - Detail Design
  - Erection and Turn-Key Project
- TOP PROJEKT has signed a Contract with Port of Ploce to make Conceptual and Basic Design of combined Jetty for LPG, LNG and petroleum products.

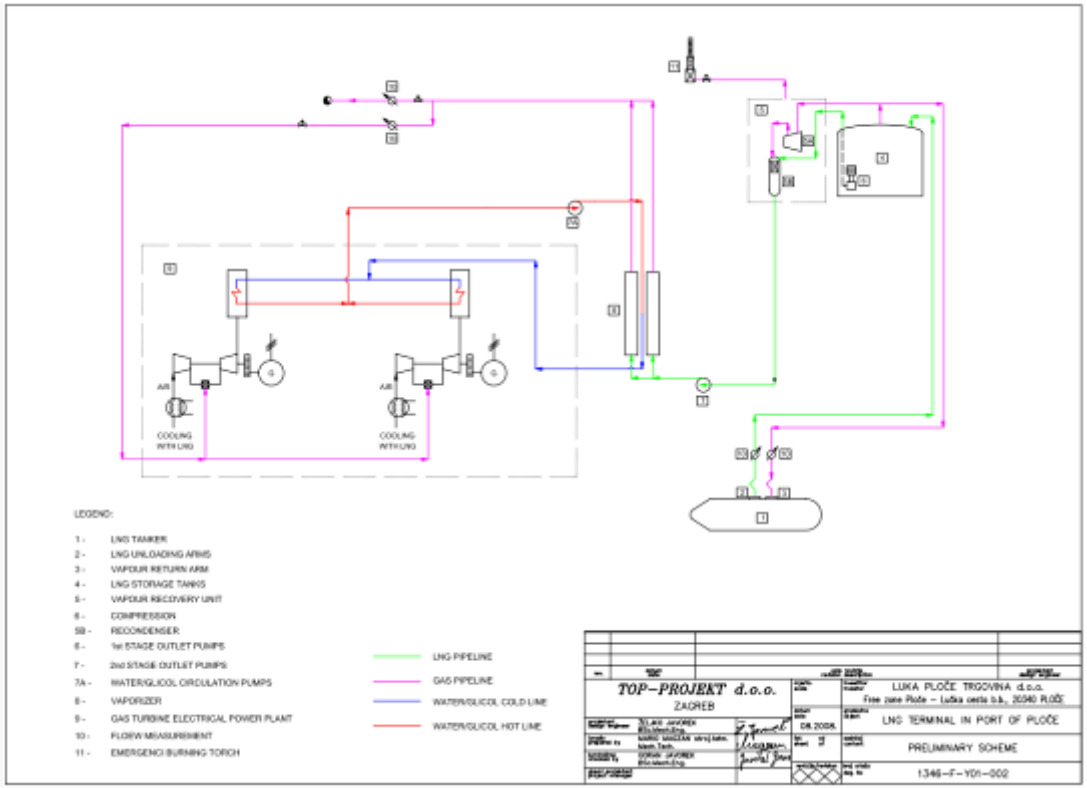
LNG TERMINAL, Port of Ploče, CROATIA, 2010. - 2011.

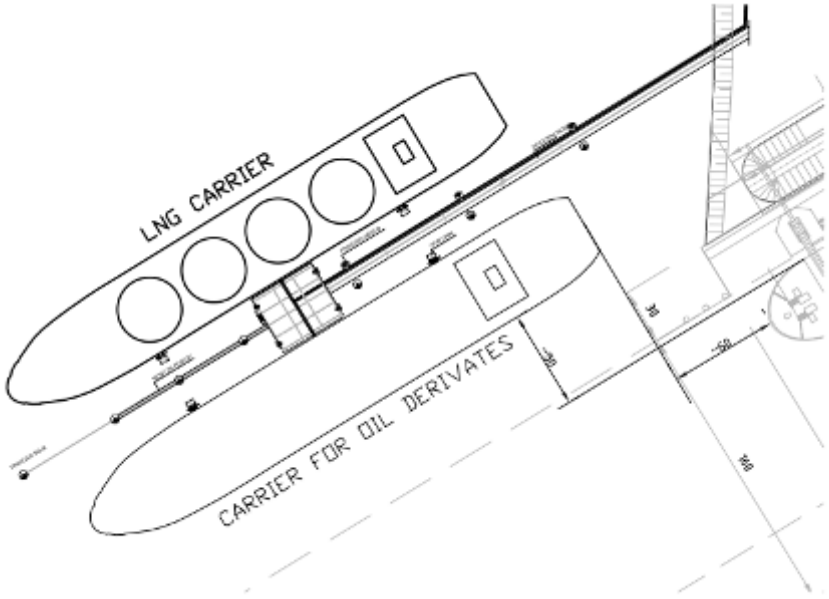
- LNG tanks – Full containment tanks (2x125.000 m3)
- Mooring for LNG tankers with arms for LNG
- System of pumps, pipes for LNG, plant for treating gas phase, plant for evaporation
- System for processing products, system of fire protection, safety and auxiliary plants
- Power plant 500 mw

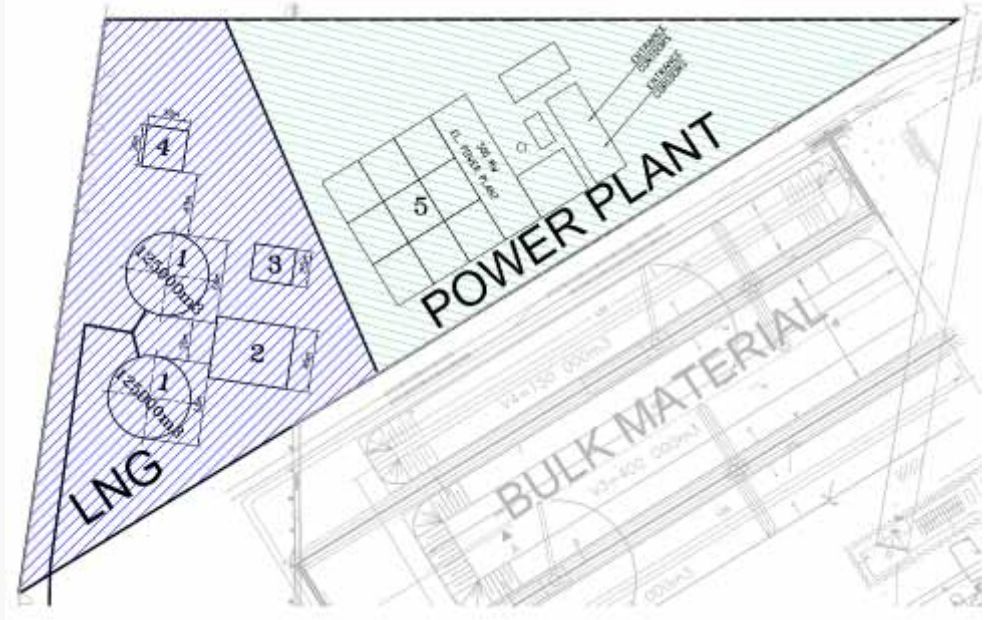
A – LIQUID CARGO TERMINAL (A=15 ha)
B – PROCESSING, FINISHING, ASSEMBLY AND DISTRIBUTIVE CENTER (B1+B2=15+8 =23 ha)
C – LNG STORAGE & POWER PLANT (C=15,5 ha)
D – NEW TANKER JETTY FOR LNG
E – CONTAINER TERMINAL
F – BULK CARGO TERMINAL

INITIAL SOLUTION FOR LNG RECEIVING TERMINAL –

TECHNICAL DOCUMENTATION DETAILS

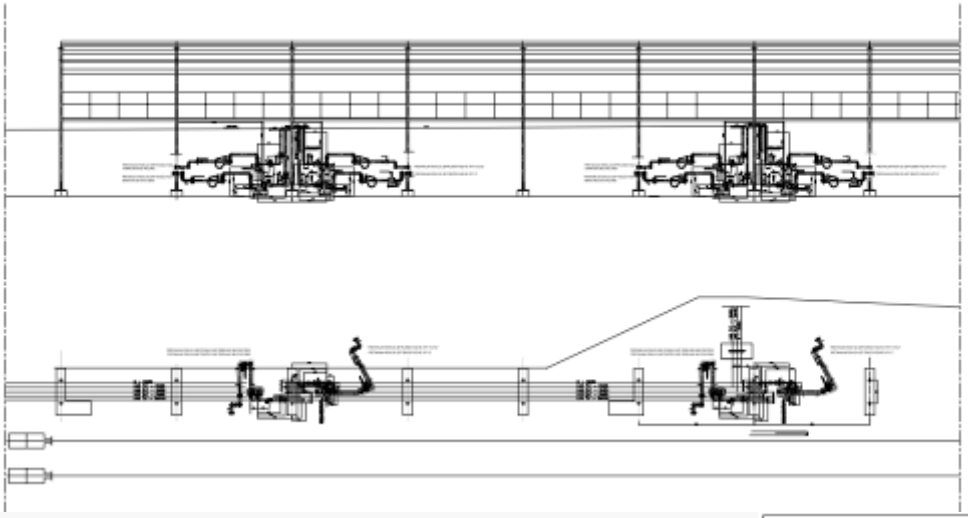


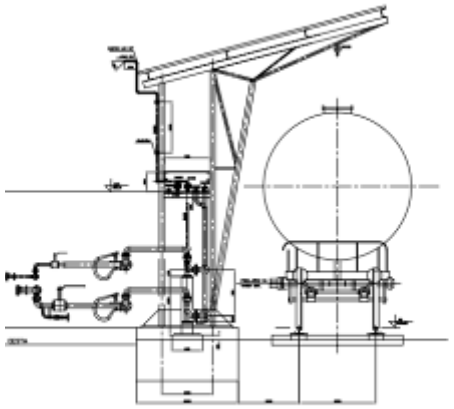


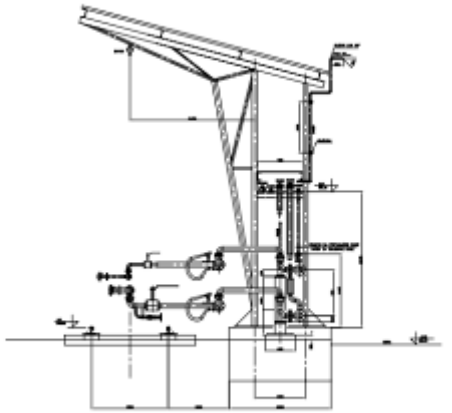


LNG / CNG FACILITY, Jesenice, SLOVENIA 2007-2009

COMBINED LNG AND LPG TRUCK AND RAIL LOADING / UNLOADING

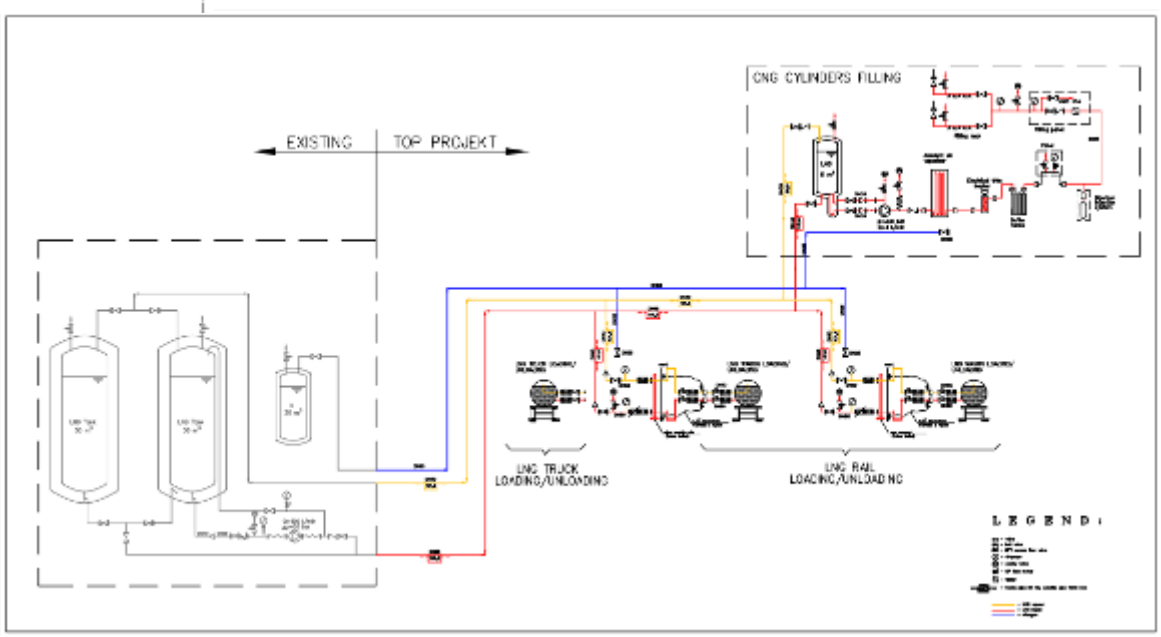






- ONE LPG TRUCK
LOADING / UNLOADING PLACE

- TWO LNG RAIL
LOADING / UNLOADING PLACES



THANK YOU FOR YOUR ATTENTION