



COMPANY PROFILE 2025



The sea — our responsibility

MARINAS

www.seatec-sarl.com

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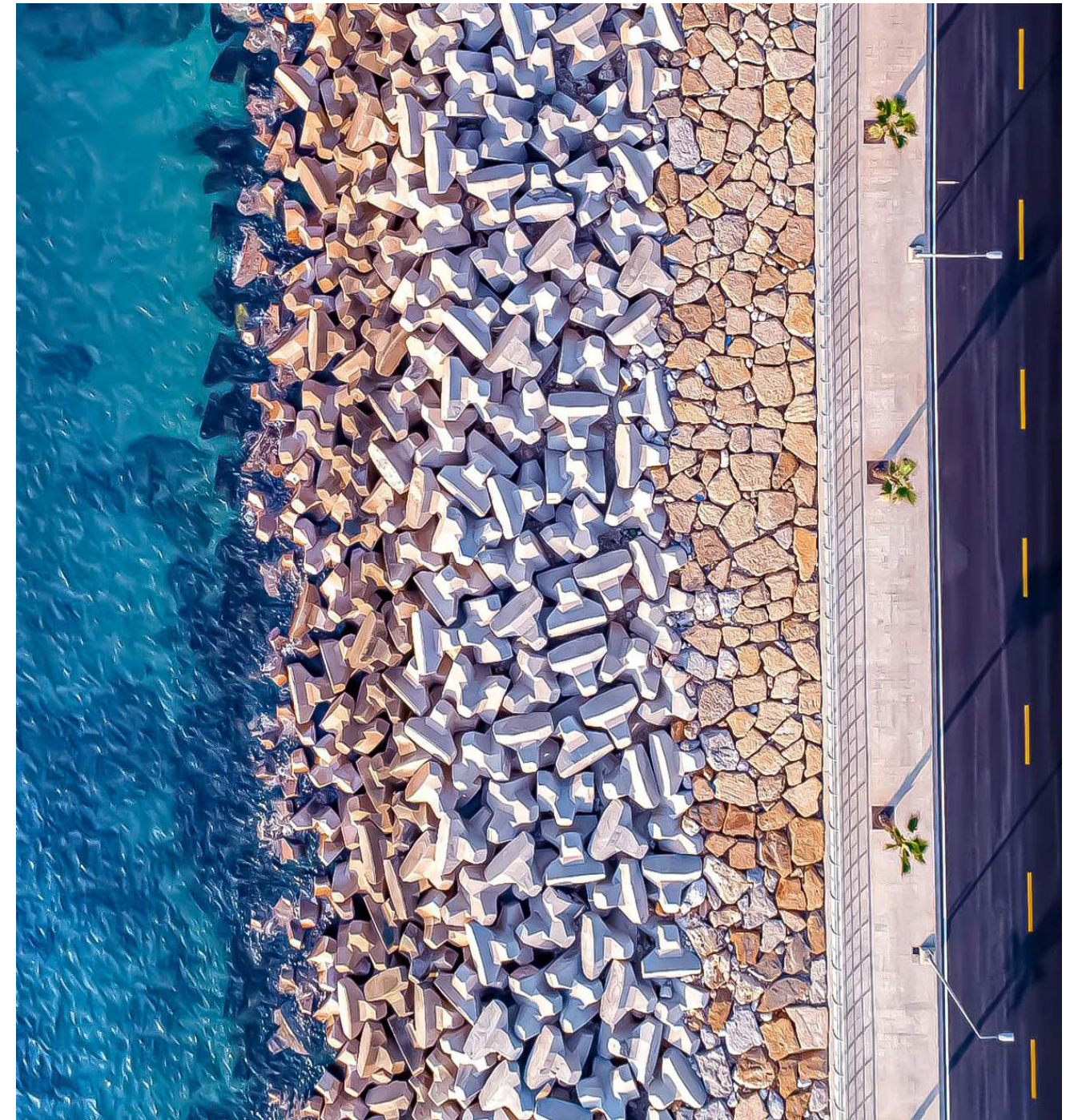
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SEATEC

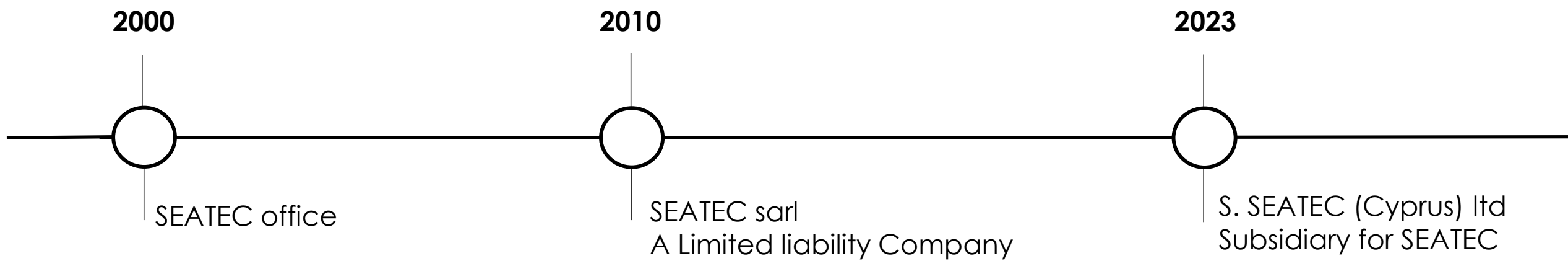
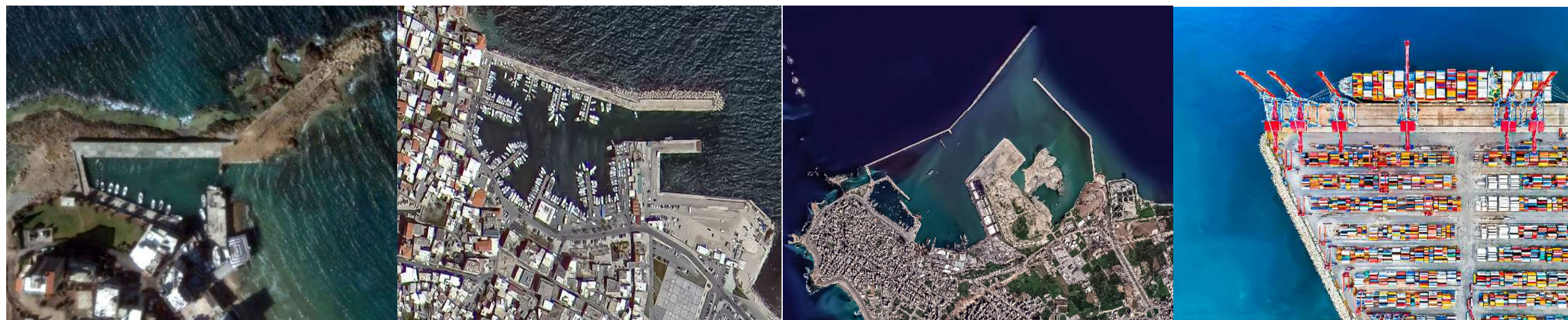
provides its clients with design and supervision services in coastal and port engineering, covering surveying, site investigation, master planning, numerical modeling, tender and detailed design, feasibility and EIA studies, permitting, construction planning, management and supervision.

Serving public as well as private sectors since 2000, SEATEC sarl is dedicated to give its clients the best engineering assistance.

SEATEC sarl operates in the EU territory through its subsidiary in Cyprus, S. SEATEC (Cyprus) Ltd.



COMPANY HISTORY



PROJECTS LOCATION



Countries ●	
Middle East	AFRICA
Lebanon	Egypt
Jordan	Libya
Syria	Tunis
GULF	Algeria
UAE	Djibouti
KSA	Ivory Coast
Qatar	Cameroon
Oman	Nigeria
ASIA	EUROPE
India	Cyprus

GET IN TOUCH WITH US

5

HEAD OFFICE

SEATEC sarl

Beaini Center, 1st floor, Down Town,
31 Ernest Renan St.,
PC 4504 Byblos, LEBANON

Ph : +961 9 55 00 22
Fax : +961 9 55 00 44
Mob : +961 3 29 10 30
Web : www.seatec-sarl.com
E-mail : seatec@seatec-sarl.com

SUBSIDIARY OFFICE

S. SEATEC (CYPRUS) Ltd

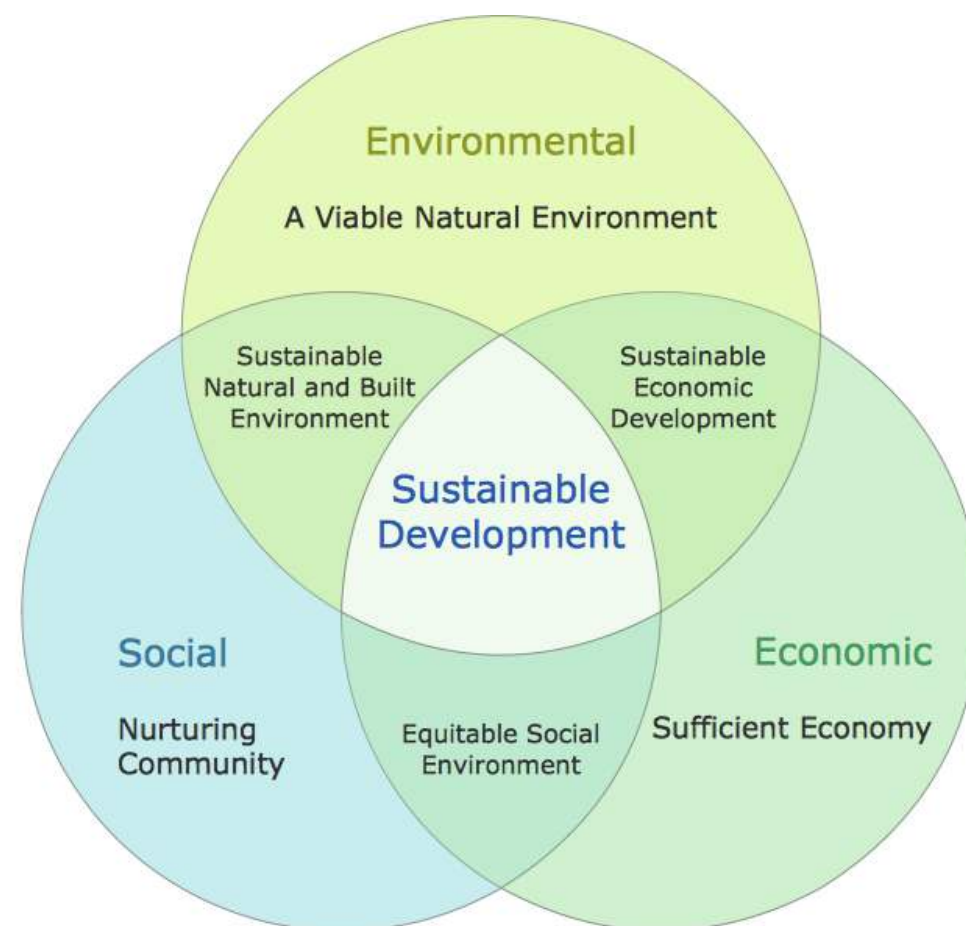
Michail Olympiou, 26 Dali,
2540 Nicosia, CYPRUS



VISION 01

SUSTAINABLE ENGINEERING SOLUTIONS

"Leading the way in creating sustainable and resilient engineering solutions that harmonize with nature and withstand the test of time"



VISION 02

ECO-FRIENDLY AND GREEN PRACTICES

"Pioneering eco-friendly and green solutions that preserve coastlines and promote a sustainable future for generations to come"



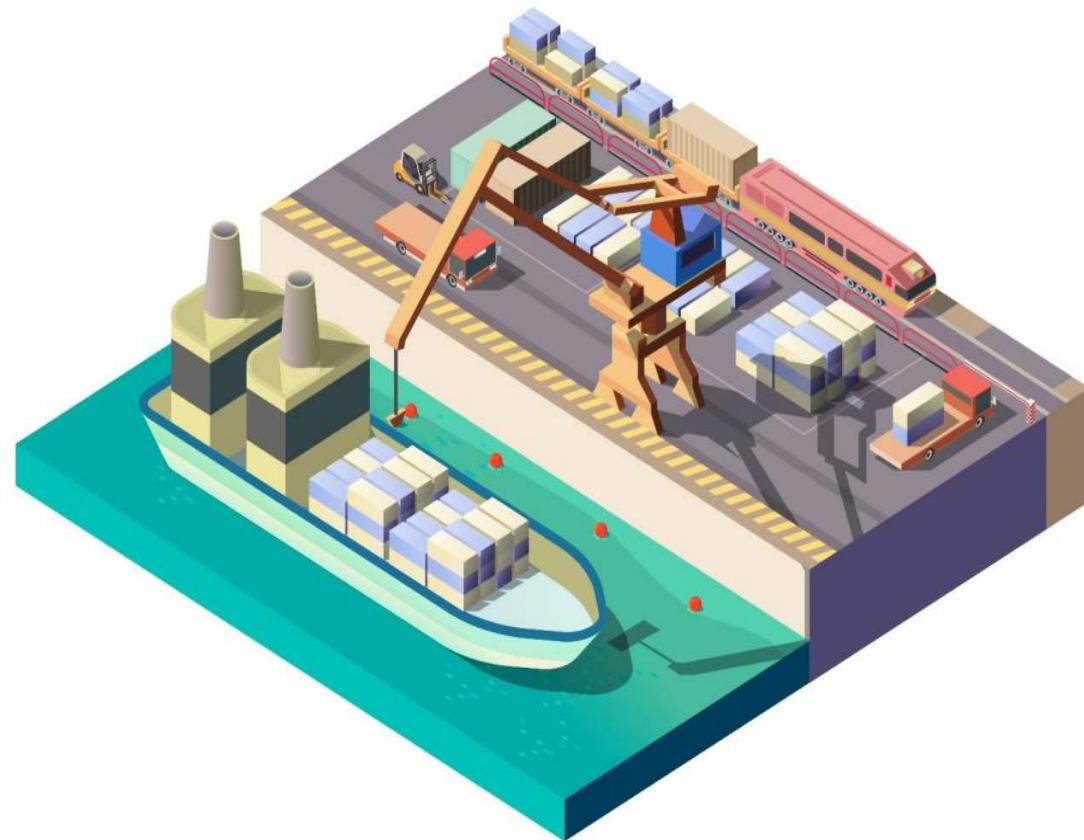
COMPANY VISION

7

VISION 03

SMART PORTS

"Transforming ports into smart, efficient, and interconnected hubs that drive global trade and economic growth".



VISION 04

INNOVATIVE COASTAL DEVELOPMENTS

"Fostering innovative coastal developments that boost local economies and enhance the quality of life for coastal communities".



INTRO

SERVICES

SEATEC sarl (www.seatec-sarl.com) is a multi-disciplinary engineering company, operating since 2000, mainly specialized in the design and supervision of coastal and ports projects, covering :

- Ports: commercial, cruise, marinas, fishing, industrial, naval bases...
- Specialized Terminals: Containers, general cargo, bulk, Agri bulk, oil and gas...
- Urban Waterfronts developments
- Coastal protections
- Dredging and reclamation works
- Beaches (protection and artificial nourishment)
- Offshore pipelines (outfalls, intake pipes...)
- Mooring structures, ship lifts
- Marine infra (Breakwaters, quay walls, platforms, slipways...)



CAPACITY OF THE COMPANY

9

SERVICES

SEATEC offers a range of services through an experienced team in coastal and port engineering field :

- Site selection and evaluation
- Topographic and bathymetric survey
- Underwater inspection
- Rehabilitation of existing infrastructure
- Development of new infrastructure and facilities
- Master planning (future development) and phasing
- 3D presentations (views and videos)
- Feasibility studies
- Design optimization
- Design review /value engineering
- Preliminary and detailed design
- Execution drawings
- Numerical modelling
- Environmental Impact Assessment (EIA) studies
- Permitting and consents from relevant public authorities
- Tender documents
- Assistance to clients in selection of contractors



SERVICES

- Supervision services, management and supervision of construction sites in accordance with health and safety guidelines, through an experienced team of site engineers, supervisors, surveyors and divers
- Supervising contractors, subcontractors and work activities
- Compliance of executed works with the relevant building regulations, quality standards
- Construction permit and with the specified technical documentation and guidelines
- Issuing of information and instructions on behalf of the client
- Validate of contractor's payments
- Hazards and risks assessment and Prevention of construction errors
- Carrying out regular inspections and raising safety concerns at the appropriate level
- Keeping construction on schedule, construction errors
- Completing records for site reports
- Resolving problems and implementing improvements
- Works handing over certificate



OUR TEAM

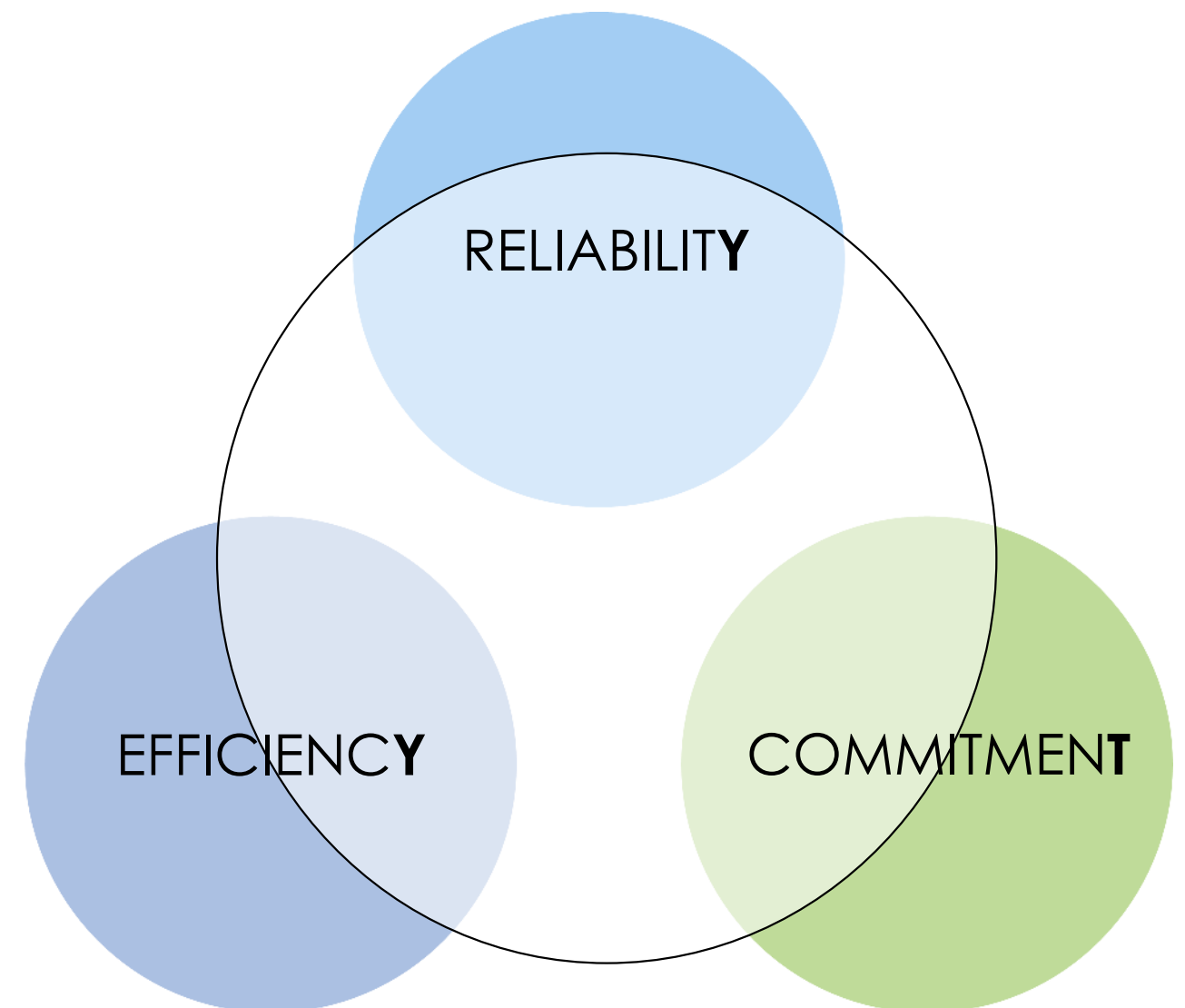
SEATEC have an experienced Team for in house design, covering all coastal and ports engineering aspects, geotechnical analysis, numerical modeling, works supervision..., keeping an excellent cooperation with leading European maritime and hydraulic laboratories for 2D/3D physical modeling.

A strong team spirit with the Client will be essential, working as part of a single entity rather than as competent individuals.

The team of experts is mostly composed of people involved in our recent projects, carefully selected for their:

- Experience in the field of expertise
- Efficiency
- Experience in working with each other
- Ability to advise both public and private Clients

Moreover, SEATEC can mobilize on short notice its technical resources when and where such expertise is needed.



OUR NUMBERS



SINCE
2000



COUNTRIES
+16

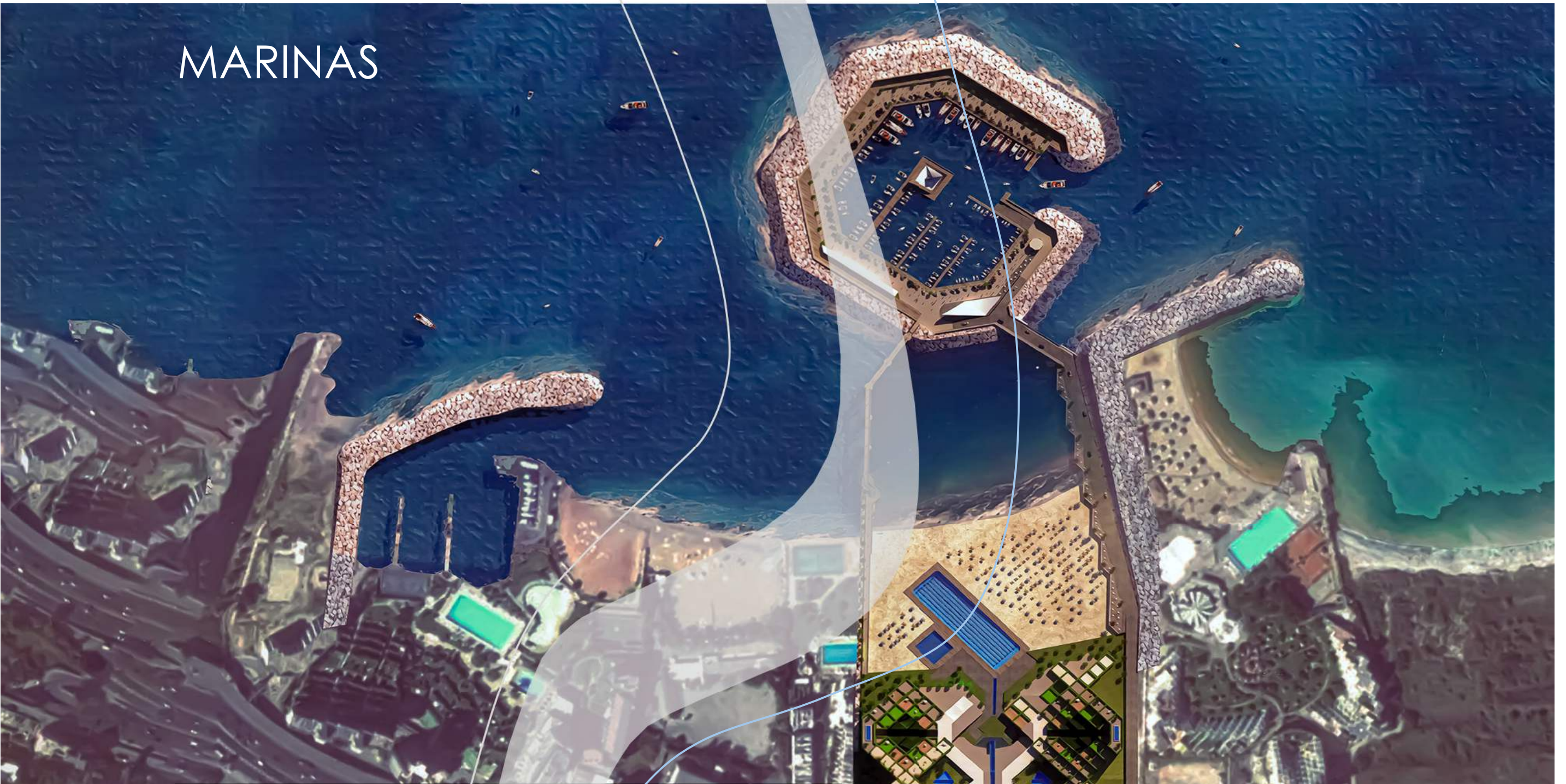


CLIENTS
+50



PROJECTS
+450

MARINAS



PALMA MARINA REHABILITATION WORKS

14

Client PALMA BEACH RESORT

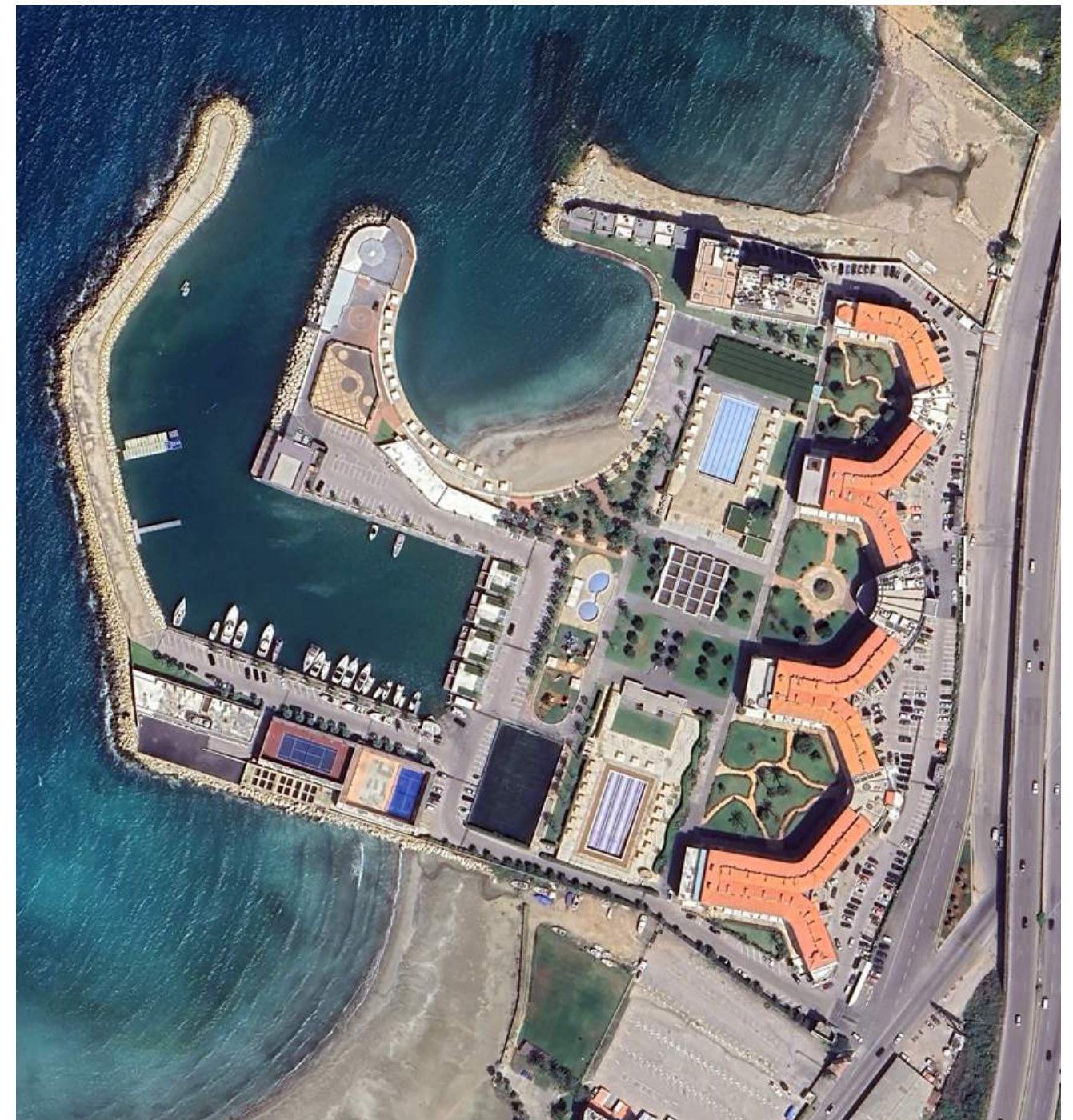
Location LEBANON - Tripoli
34°24'44" N
35°49'02" E

Consultant SEATEC sarl

Palma Marina Rehabilitation Works

Year 2025
Surveying / Permitting

- Rehabilitation works of deteriorated concrete
- Surveying
- Drawings / Permitting



Ports / Marinas / Surveying / Permitting

DREDGING AT PALMA MARINA - 2

15

Client PALMA BEACH RESORT

Location LEBANON - Tripoli
34°24'44" N
35°49'02" E

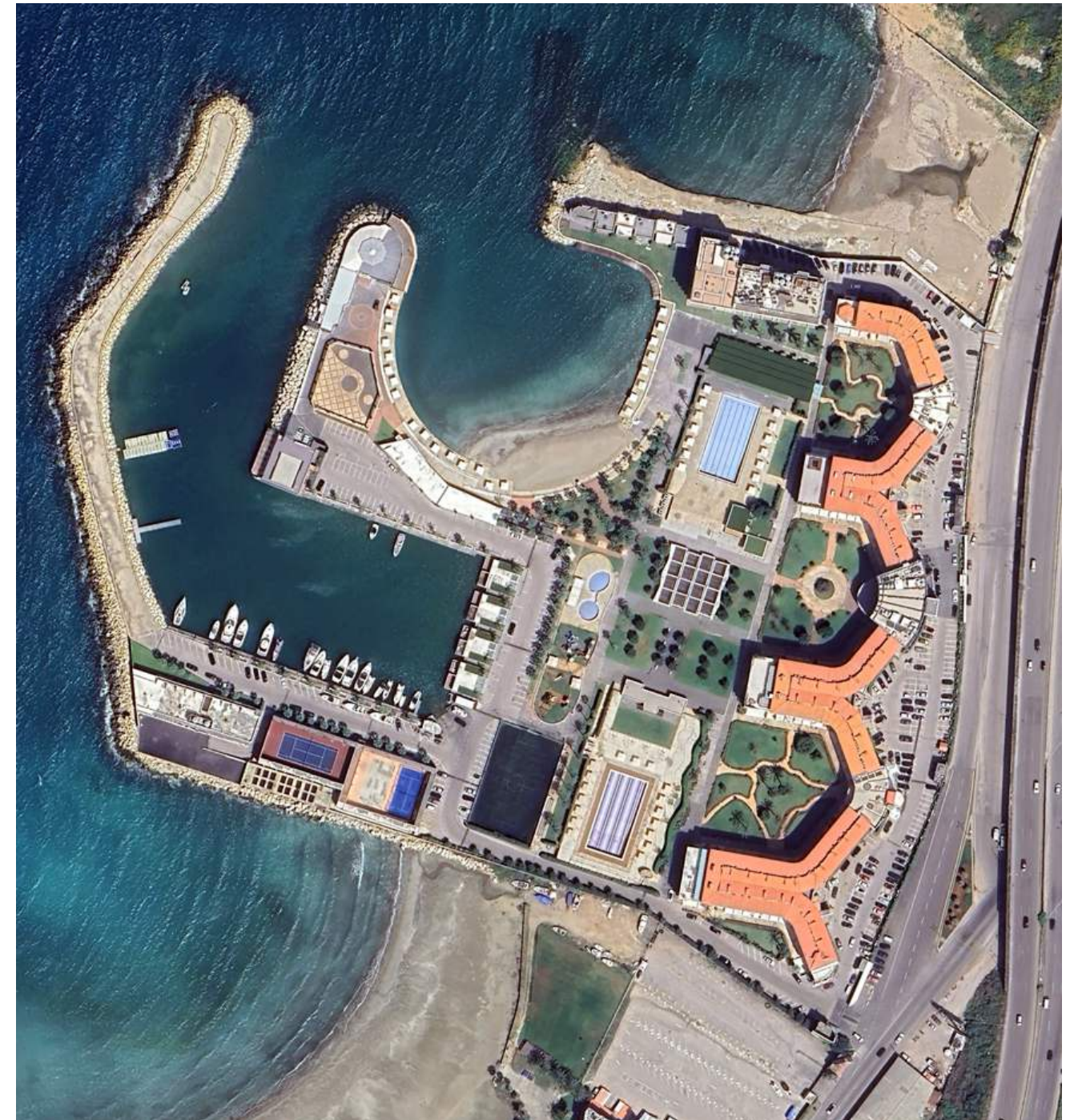
Consultant SEATEC sarl

Dredging at Palma Marina - 2

Year 2024
Design / Surveying / Permitting

Dredging Works at Palma Marina basin and access channel over (24,000m²) up to -3.00m MSL

- Topographic survey
- Bathymetric survey (36,000m²)
- Drawings / Permitting / BoQ



Ports / Marinas / Dredging / Surveying / Permitting

DREDGING AT HALATE SUR MER - 2

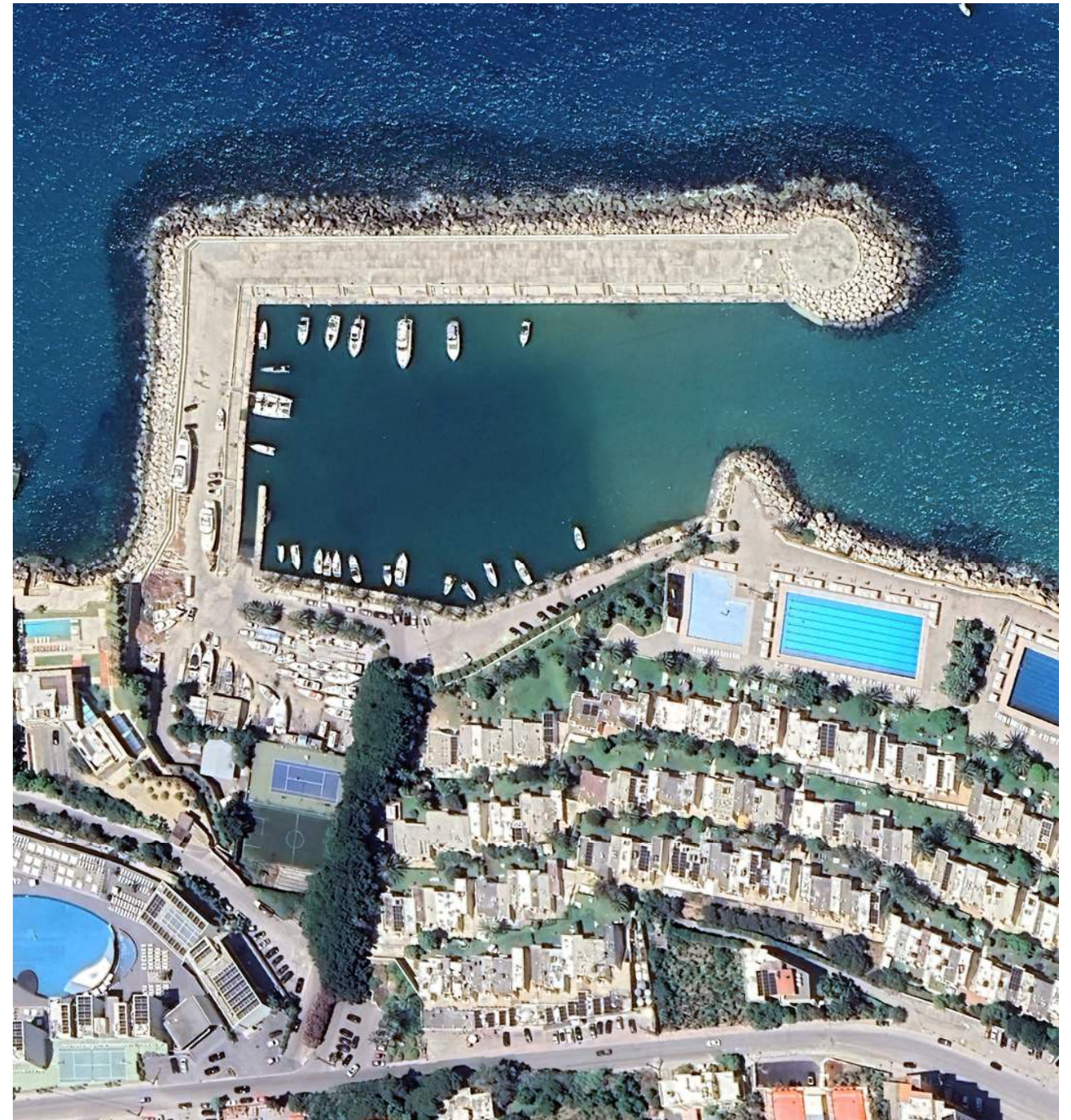
16

Client Halate Sur Mer
Location LEBANON – Halate
34°5'31" N
35°38'55" E
Consultant SEATEC sarl

Dredging at Halate Sur Mer Marina - 2

Year 2024
Design / Permitting

- Dredging of marina basin and entrance (24,500m²)
- Drawings / BoQ / Permitting



Ports / Marinas / Dredging / Permitting

PALMA MARINA SURVEY

17

Client PALMA BEACH RESORT

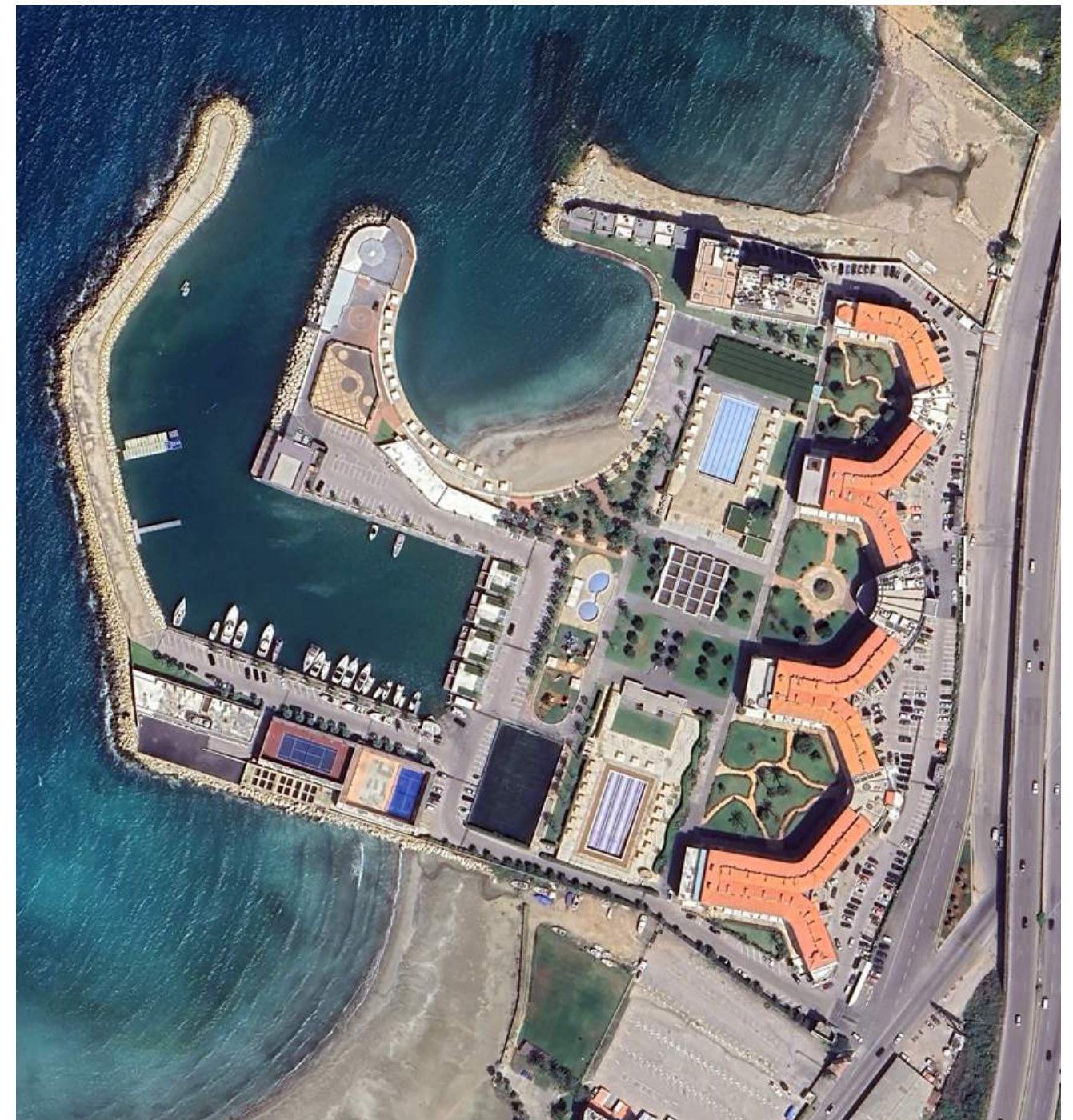
Location LEBANON - Tripoli
34°24'44" N
35°37'52" E

Consultant SEATEC sarl

Palma Marina Survey

Year 2024
Surveying

- Topographic survey of the marina and its components / facilities (~74,000m²)
- Drawings



Ports / Marinas / Surveying

Client COLOMBA
Location LEBANON – Halat
34°05'05" N
35°58'54" E
Consultant SEATEC sarl

Colomba Marina

Year 2024
Design / Surveying / Permitting

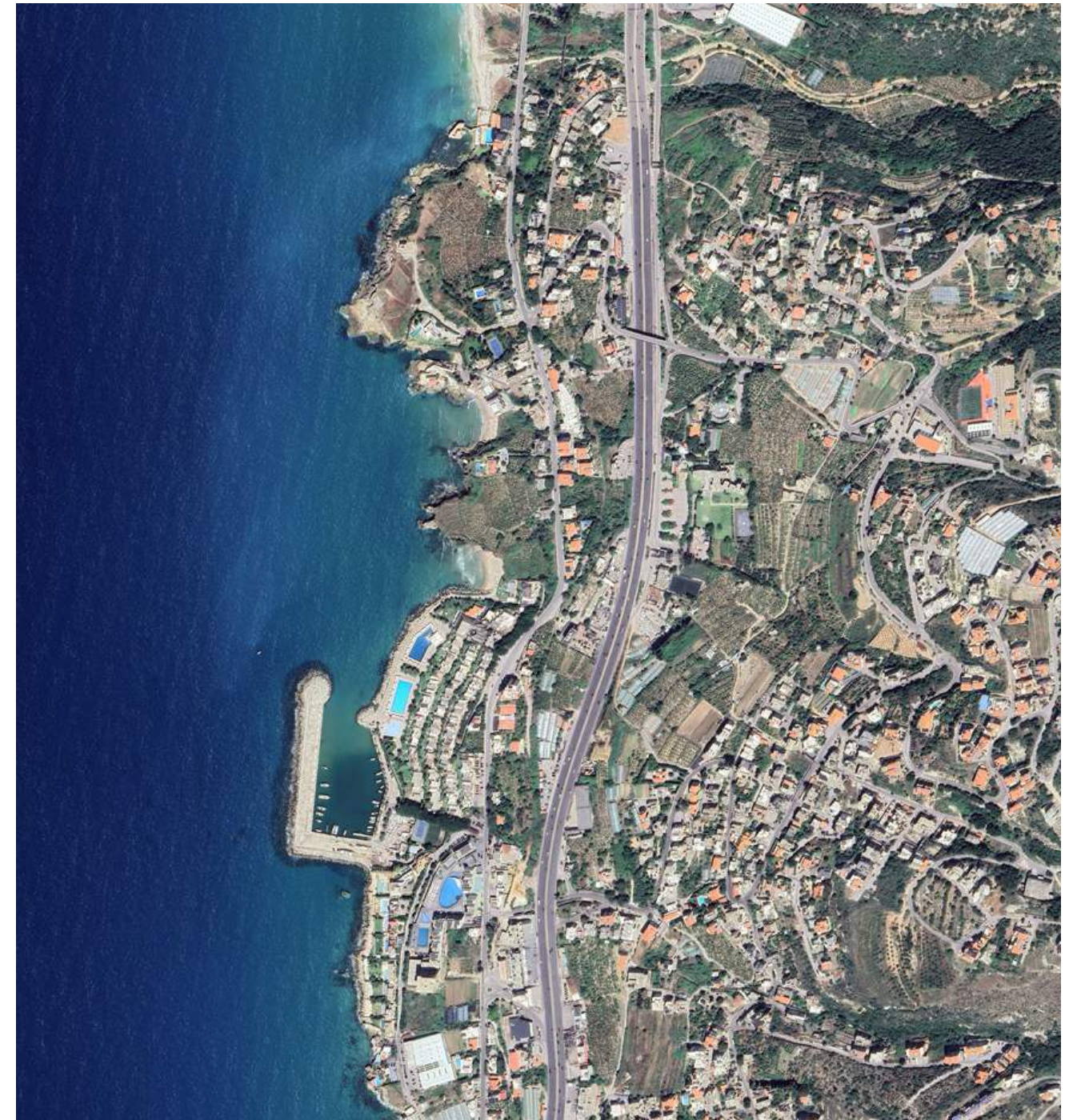
- Marina Master Plan
- Berthing capacity (72 yachts)
- Main Breakwater (Rubble mound type, L=155m @max -7.00m MSL, core material, rocky filter and precast concrete Accropodes blocks)
- Secondary Breakwater (Vertical concrete wall, L=22m @max -4.00m MSL)
- RC Crown walls
- Quaywalls (L=218m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=57m @-4.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Pier (L=50m @-3.00m MSL, Nbr 1) / Precast concrete elements

Ports / Surveying / Marinas / Beaches



Colomba Marina

- RC Platforms (4,850m²)
- Landscape
- Swimming area (protected bay)
- Marina master building, restaurants, offices, shops, recreational facilities...
- Fueling station
- Water body (9,230m²)
- Drawings / BoQ / Decree Drawing



Ports / Surveying / **Marinas** / Beaches

PARALIMNI MARINA MEP

20

Client PMV MARITIME HOLDINGS LTD

Location CYPRUS – Paralimni
35°02'22" N
34°02'15" E

Consultant S. SEATEC (CYPRUS) Ltd
Subsidiary of SEATEC sarl

Paralimni Marina MEP

Year 2023 – 2024
Design

- MEP detailed design of the marina
- ATON system design
- Drawings / Specifications / BoQ



Ports / Marinas

JOUNIEH LAF COMPLEX BREAKWATER REHABILITATION

21

Client LEBANESE REPUBLIC
Lebanese Army Forces (LAF)

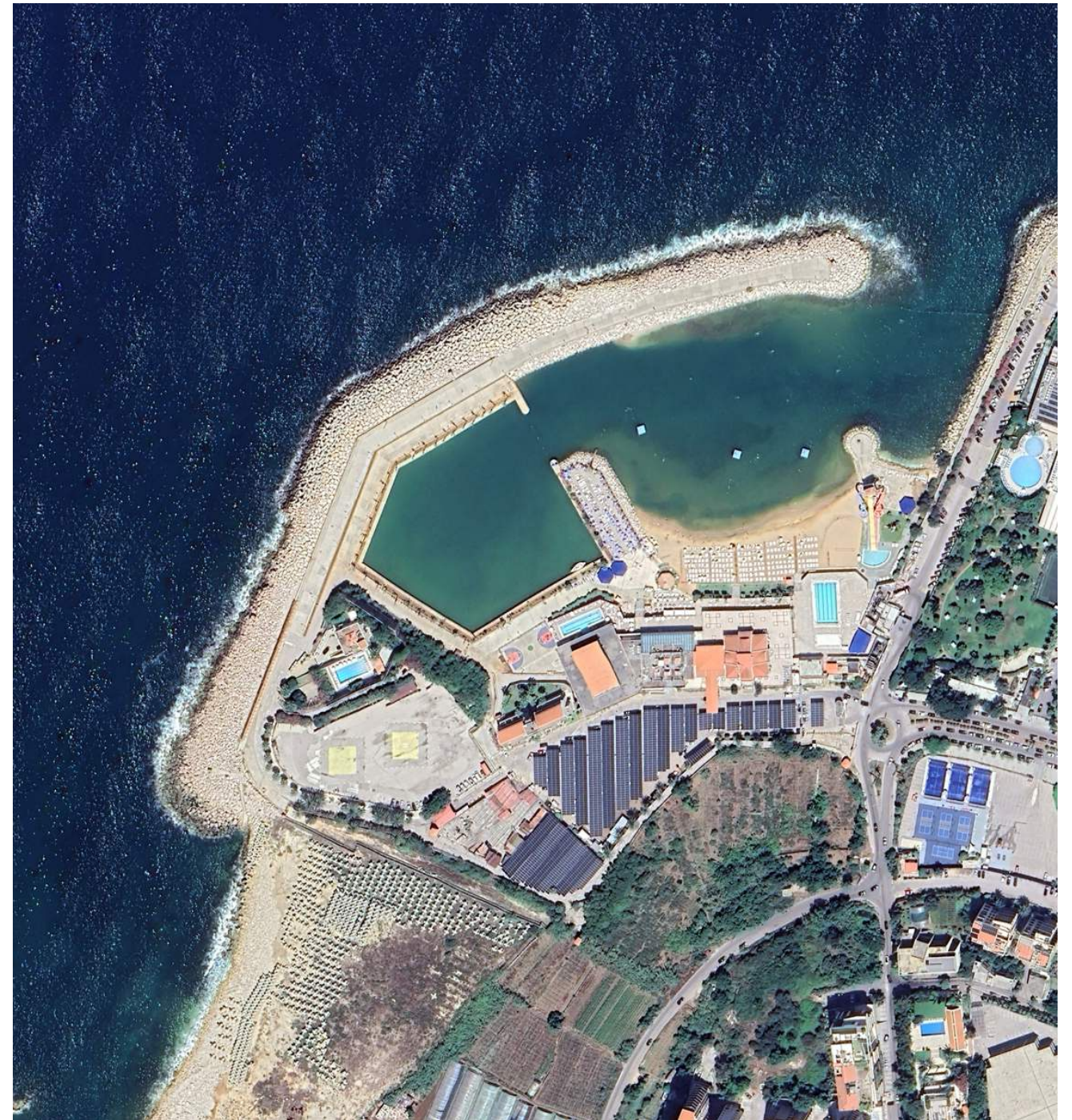
Location LEBANON – Jounieh
33°59'12" N
35°36'53" E

Consultant SEATEC sarl

Jounieh LAF Complex Breakwater Rehabilitation

Year 2023
Design

- Rehabilitation works related to the damaged rocky armor layer of the main breakwater (Rubble mound breakwater type, rocky filter, precast concrete Accropodes Blocks Type I)
- Rocky toe
- Technical Specifications / Drawings / BoQ



Ports / Surveying / Marinas

ABATTA VILLAGE WATERFRONT

22

Client Arabian Construction Company (ACC)

Location IVORY COAST – Abidjan
5°20'00" N
3°54'13" E

Consultant SEATEC sarl

Abatta Village Waterfront

Year 2023
Design

- Protection of the existing lagoon waterfront (L~270m): Gabion boxes
- Walkway (4,00m width)
- T shape Floating pontoon for small boats (L~40m)
- Piled platform (25x12)m
- Technical Specifications / Drawings / BoQ



Ports / Marinas / Coastal Protections / Revetments / Dredging

PORT OF BEIRUT MASTER PLAN

Client N/A
Location LEBANON – Beirut
33°54'10" N
35°31'03" E
Consultant SEATEC sarl

Port of Beirut Master Plan

Year 2022 – 2023
Conceptual Design

- New Master plan of the Port (Rehabilitation and reconstruction) following the August 4th blast
- LAF Naval base (83,842m2)
- Ro-Ro Terminal (76,239m2)
- General Cargo Terminal (76,612m2)
- SEZ (194,610m2)
- Grain Terminal (76,338m2)
- Container storage (63,137m2)
- Container Terminal (492,378m2)
- Administration (92,332m2)
- Marina (88,908m2)
- Investors area (446,918m2)
- Public space / Memorial area (70,148m2)
- Main entrance (28,511m2)
- Railway station (84,982m2)

*Ports / Waterfronts / General Cargo Terminals / Container Terminals / Grain Terminals / Naval Bases / **Marinas***



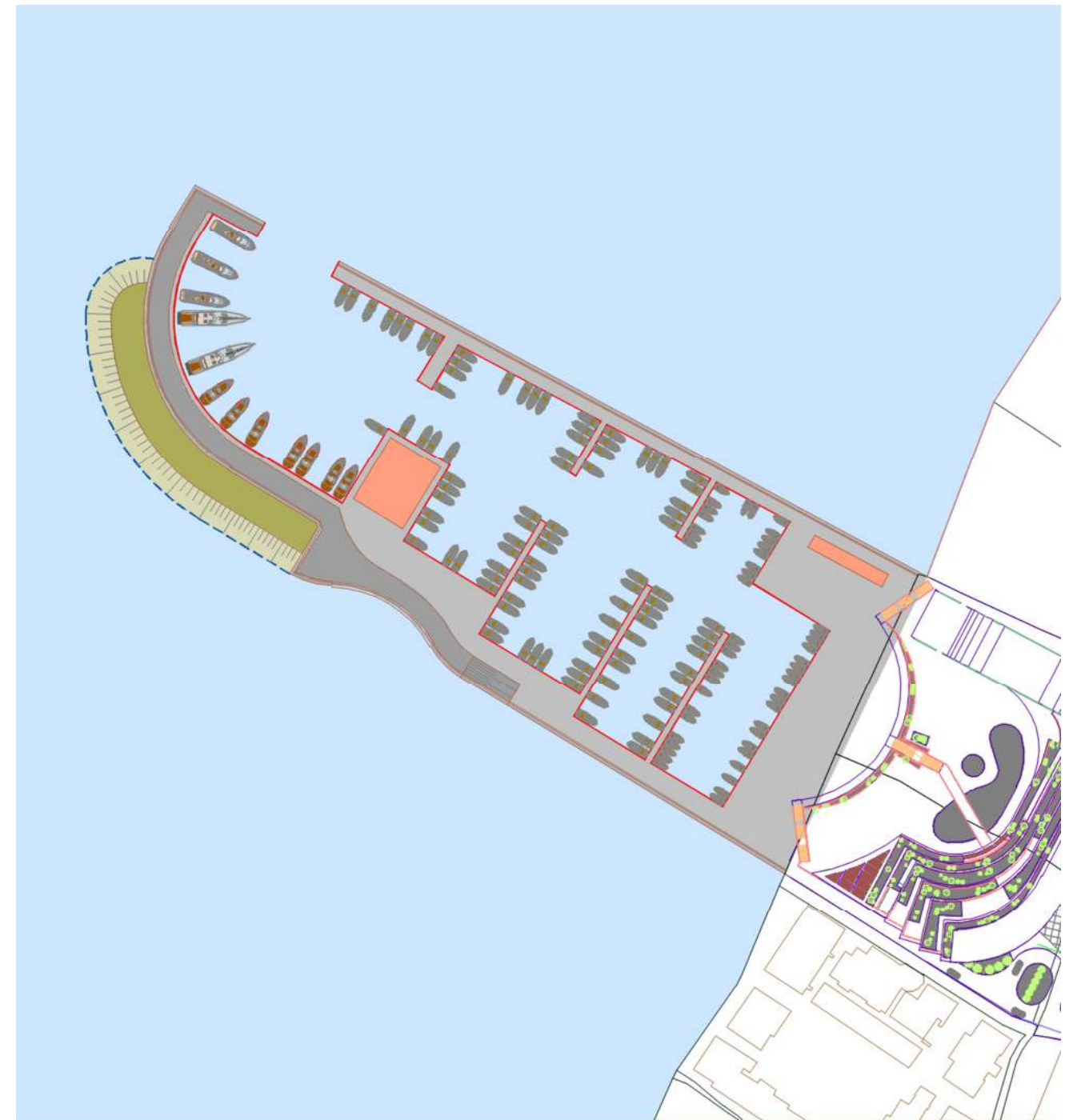
Client S. ELIAS
Location LEBANON – Zouk
33°58'47" N
35°36'41" E
Consultant SEATEC sarl

Zouk Marina

Year 2021
Design / Surveying / Permitting

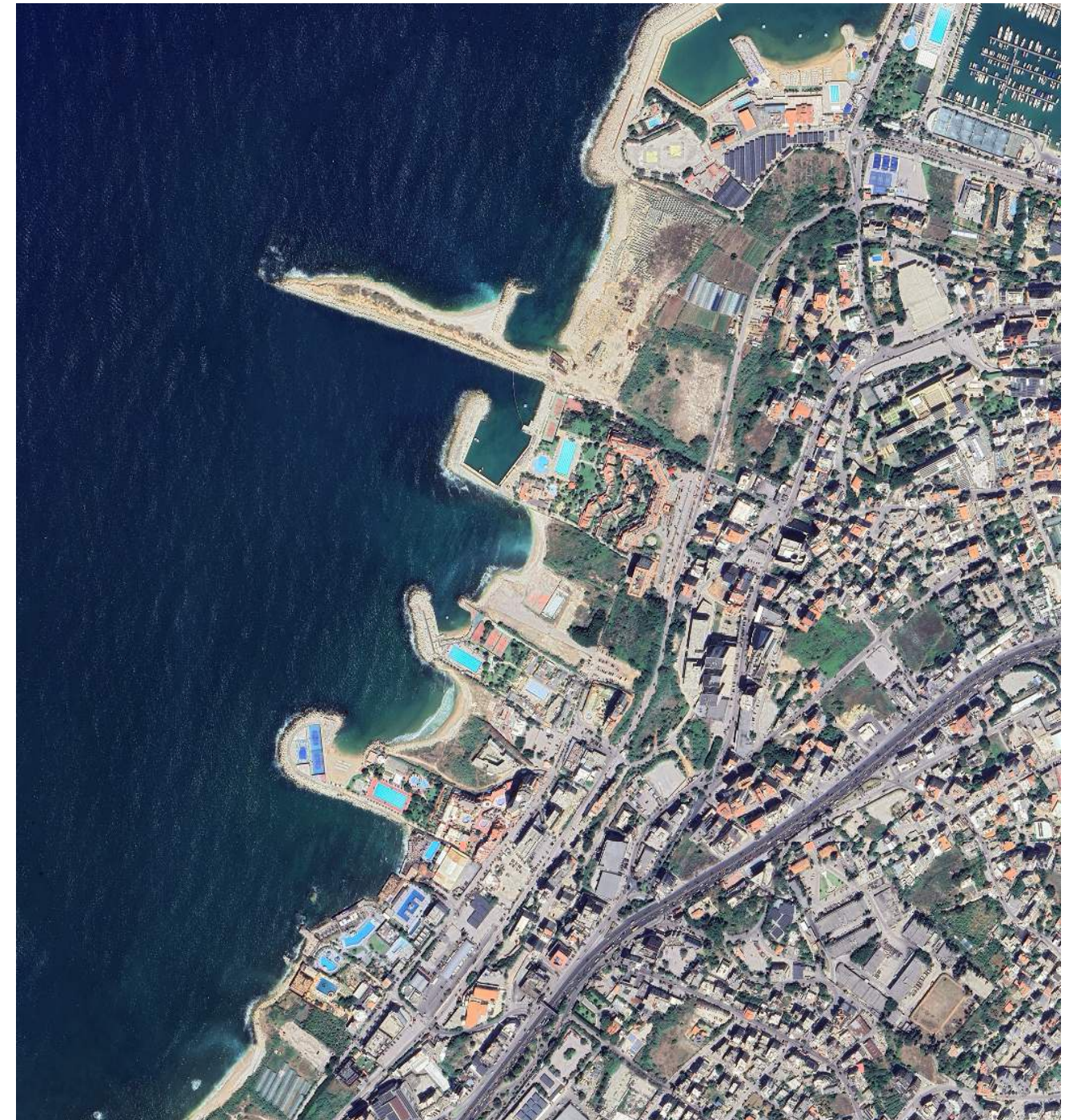
- Marina Master Plan
- Berthing capacity (226 yachts)
- Main Breakwater (Rubble mound type, L=140m, core material, rocky filter and precast concrete Accropodes blocks Type I)
- Secondary Breakwater (Vertical concrete BW, L=236m)
- RC Crown walls
- Quaywalls / Underwater concrete blocks (Gravity QW) (L=750m)
- Finger Piers (L=180m, Nbr 5) / Precast concrete elements
- Asphalted and concrete platforms
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)

Ports / Surveying / **Marinas** / Beaches



Zouk Marina

- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master building, restaurants, offices, shops...
- Fueling station
- Dredging works
- Reclaimed area (13,957m²)
- Water body (18,763m²)
- Drawings / BoQ / Permitting



Ports / Surveying / Marinas / Beaches

SHARJAH WATERSPORT MARINA

26

Client OSOOL / CHSS

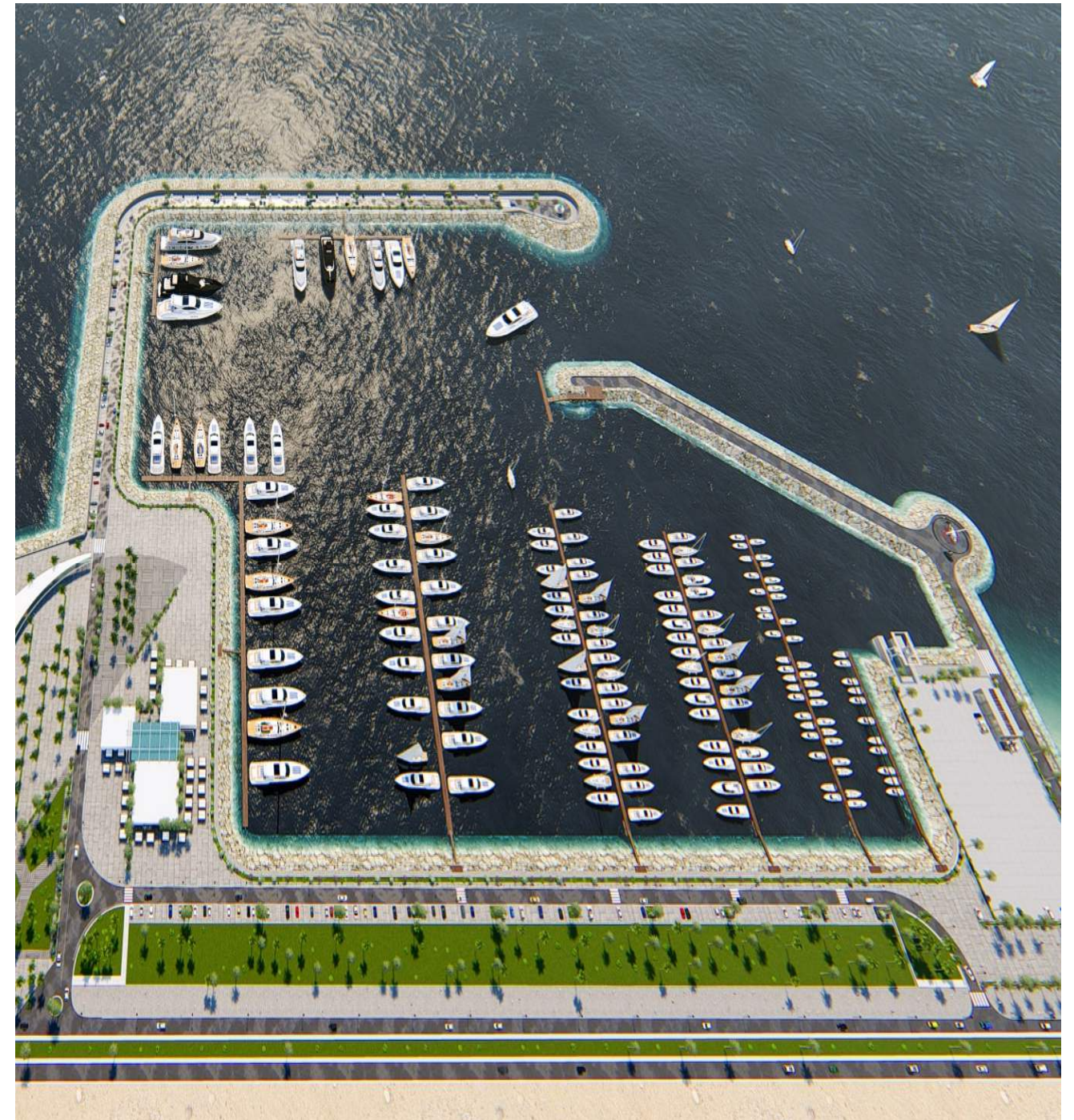
Location UAE – Sharjah
25°23'21" N
55°24'42" E

Consultant SEATEC sarl

Sharjah Watersport Marina

Year 2020
Preliminary Design

- Marina inner basin Master Plan
- Berthing capacity (61 yachts)
- Rocky revetments
- Finger Piers (Nbr 5)
- Basin and access channel dredging



Ports / Marinas / Coastal Protections / Revetments / Dredging

MONTENEGRO DEVELOPMENT (1/2)

27

Client RCM Green Steps Global (CY) Ltd / RCMGSG

Location MONTENEGRO

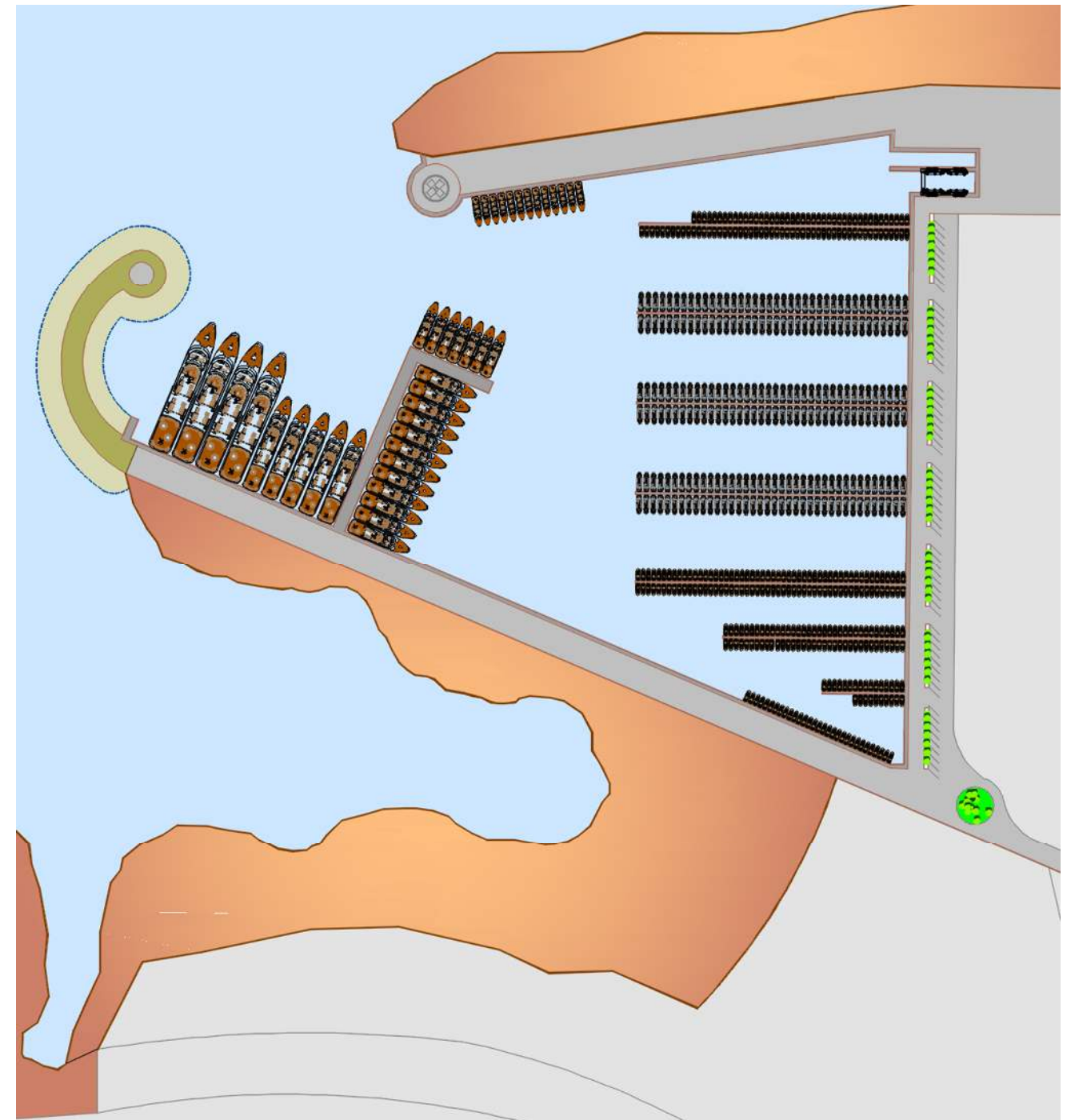
Consultant SEATEC sarl

Montenegro Development

Year 2020
Conceptual Design

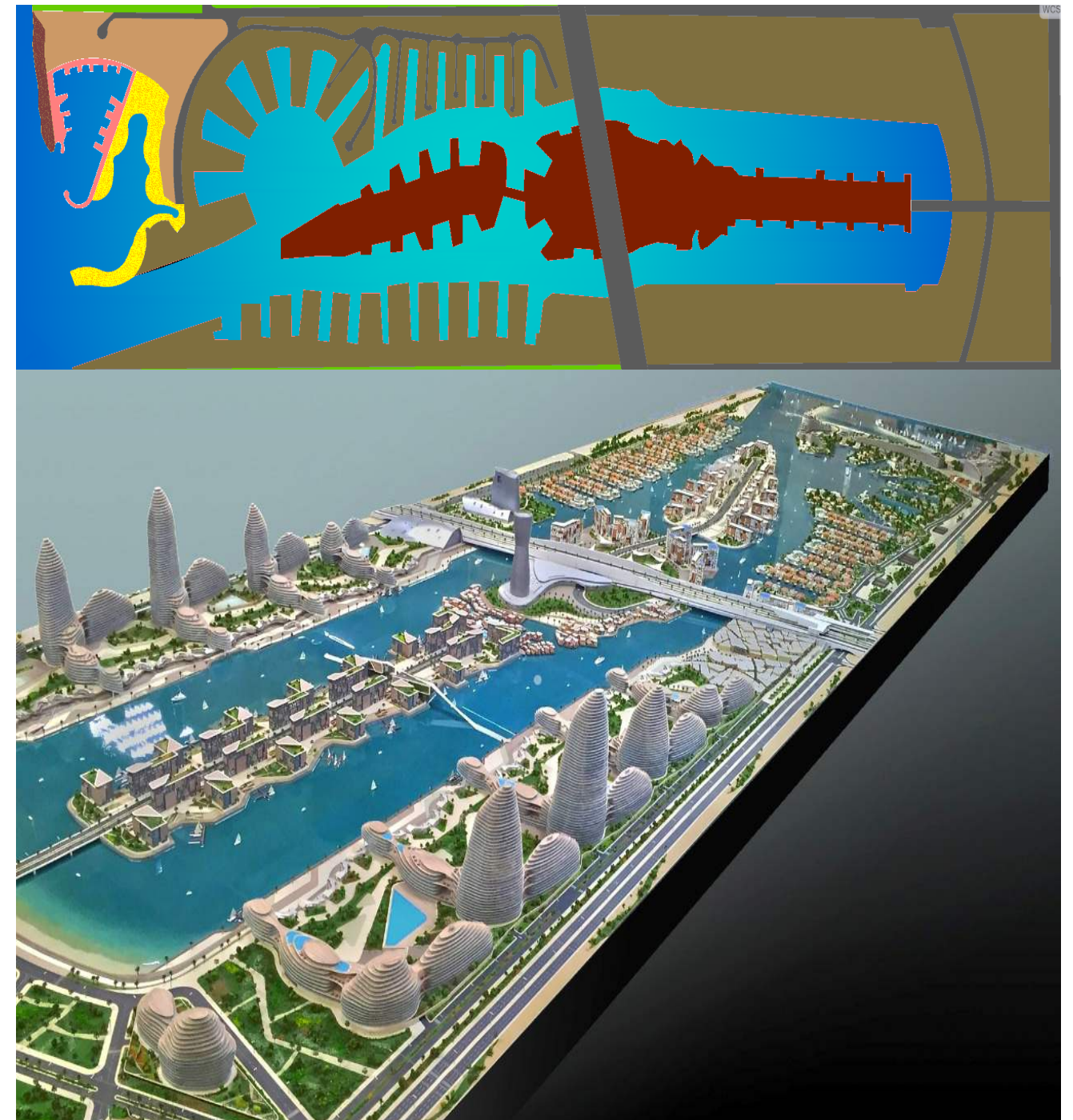
- Marina Master Plan
- Berthing capacity (630 yachts / 10 mega yachts LOA>100m)
- Main Breakwater (Rubble mound type, L=330m, core material, rocky filter and precast concrete Accropodes blocks)
- Secondary breakwater (Excavation / dredging procedures)
- Quaywalls (L=2,900m @ -3.00m, -4.50m and -8.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=1,560m, Nbr 7) / Precast concrete elements
- Basin and access channel dredging
- Hoist / slipway

Ports / Marinas / Beaches / Lift Structures / slipways / Hoists / Dredging



Montenegro Development

- Artificial recreational beach (L=1,200m, swimming area 88,000m²)
- Reclaimed RC and asphalted platforms (100,800m²)
- Water body (310,000m²)
- Drawings



Ports / Marinas / Beaches / Lift Structures / slipways / Hoists / Dredging

MARASSI MARINA

29

Client HOMAN GROUP (Contractor)
EMARR (Owner)

Location EGYPT – Marsa Matruh / Sidi Abed Rahman
30°58'01" N
28°46'04" E

Consultant SEATEC sarl

Marassi Marina

Year 2020 – 2021
Design review / Contractor technical assistance

- Marina Master Plan review
- Main Breakwater (Rubble mound type, core material, rocky filter and precast concrete Core-loc blocks)
- Secondary Breakwater (Rubble mound type, core material, rocky filter and precast concrete Core-loc blocks)
- Concrete crown walls
- Quaywalls / Underwater concrete blocks (Gravity QW) and sheetpiles QW
- Reclaimed platforms
- Dredging of basins and access channel
- Accessories (Bollards, fenders...)
- Specifications / Drawings / BoQ

Ports / Marinas / Coastal Protections / Revetments / Dredging



KYE MARINA (1/2)

30

Client Lebanon West Coast sal

Location LEBANON - Wata salam
34°01'44" N
35°37'24" E

Consultant SEATEC sarl

Kye Marina

Year 2019 – 2020 – 2021
Design / Surveying / Permitting

- Marina Master Plan
- Berthing capacity (200 yachts)
- Main Breakwater (L=207m @max -5.00m, vertical underwater concrete and curved seawall / Rubble mound type, L=140m @max -15.00m, core material, rocky filter and precast concrete Accropodes blocks Type II)
- Secondary Breakwater (L=78m @max -8.00m, vertical underwater concrete and curved seawall / Rubble mound type, L=172m, core material, rocky filter and precast concrete Accropodes blocks Type II)
- Dredging for breakwater toe
- RC crown walls

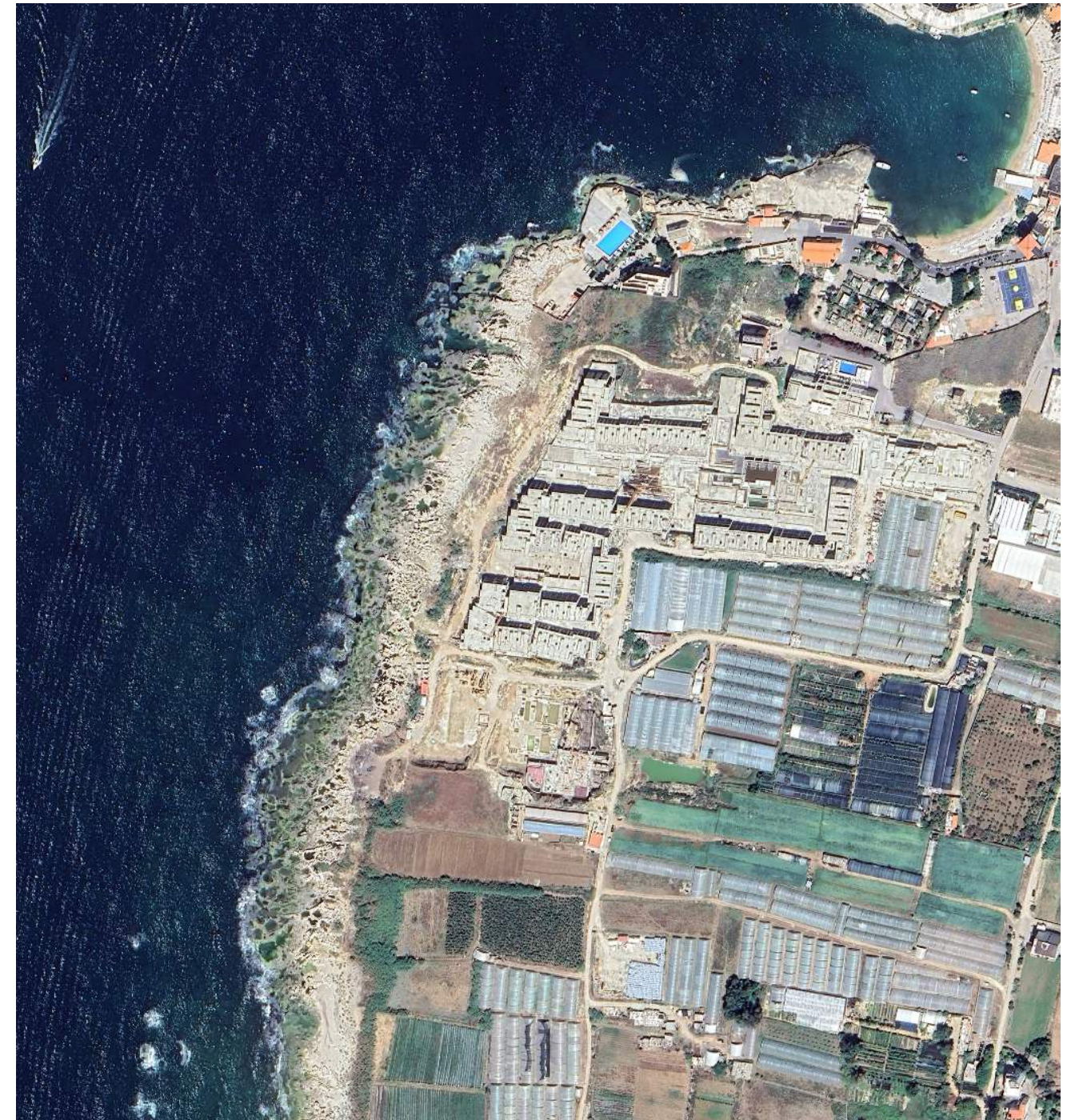
Ports / Surveying / **Marinas** / Coastal Protections / Seawalls / Beaches / Lift Structures / Slipways / Permitting



Kye Marina

- Quaywalls (L=566m) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=270m, Nbr 4) / Precast concrete elements
- Asphalted and concrete platforms
- Slipway
- Accessories (Bollards, fenders, lighting, water supply, fuel station...)
- Artificial sandy beach nourishment (swimming area 7,000m²)
- Topographic survey
- Bathymetric survey (95,000m²)
- Drawings / BoQ
- Permitting / Decree drawing

Ports / Surveying / **Marinas** / Coastal Protections / Seawalls / Beaches / Lift Structures / Slipways / Permitting



DREDGING AT PALMA MARINA - 1

32

Client PALMA BEACH RESORT

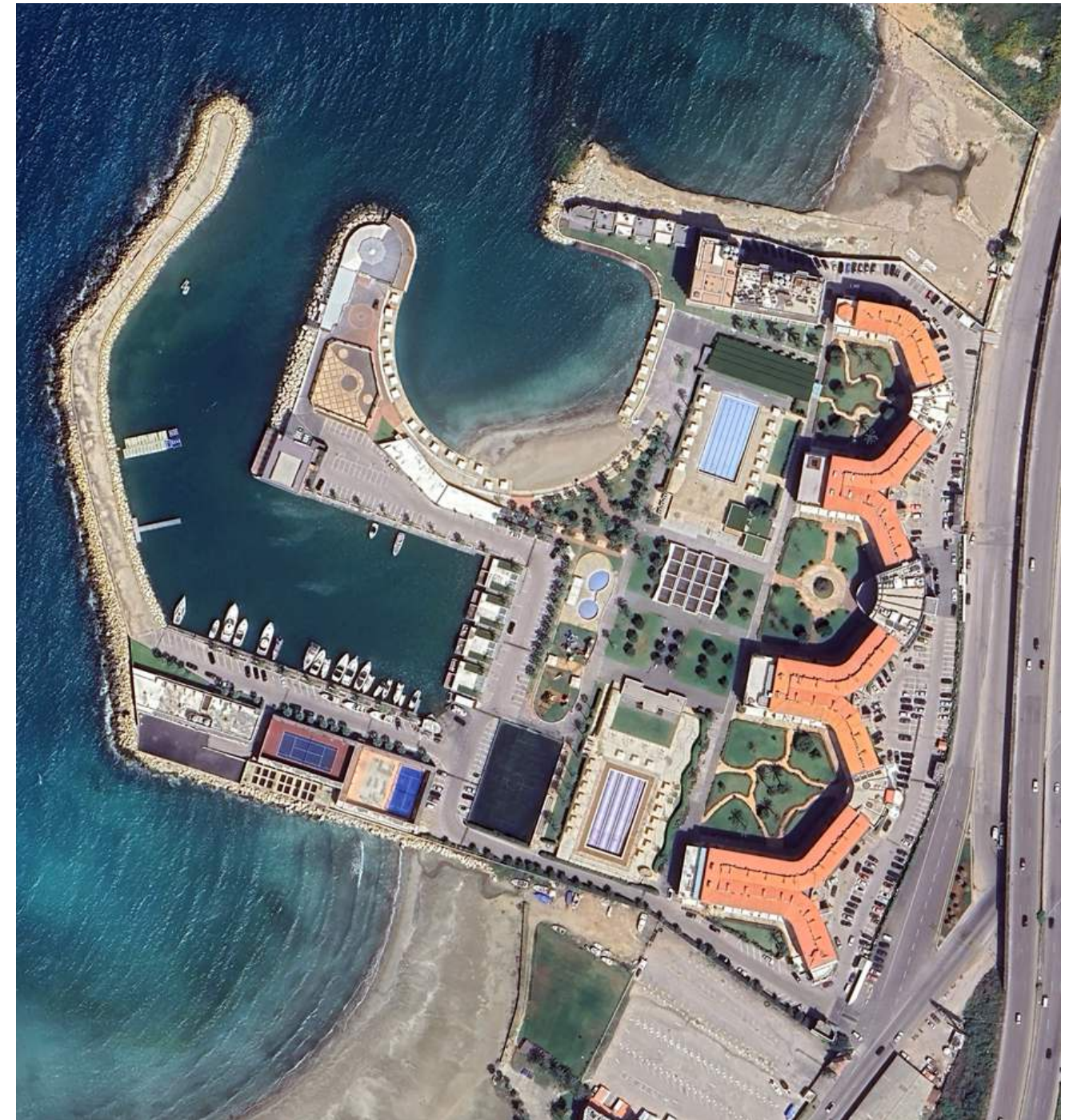
Location LEBANON - Tripoli
34°24'44" N
35°49'02" E

Consultant SEATEC sarl

Dredging at Palma Marina - 1

Year 2019
Design / Surveying / Permitting

- Dredging Works at Palma Marina basin and access channel over (19,200m²) up to -3.00m MSL
- Topographic survey
- Bathymetric survey (19,200m²)
- Drawings / BoQ



Ports / Marinas / Dredging / Surveying / Permitting

Client PALMA BEACH RESORT

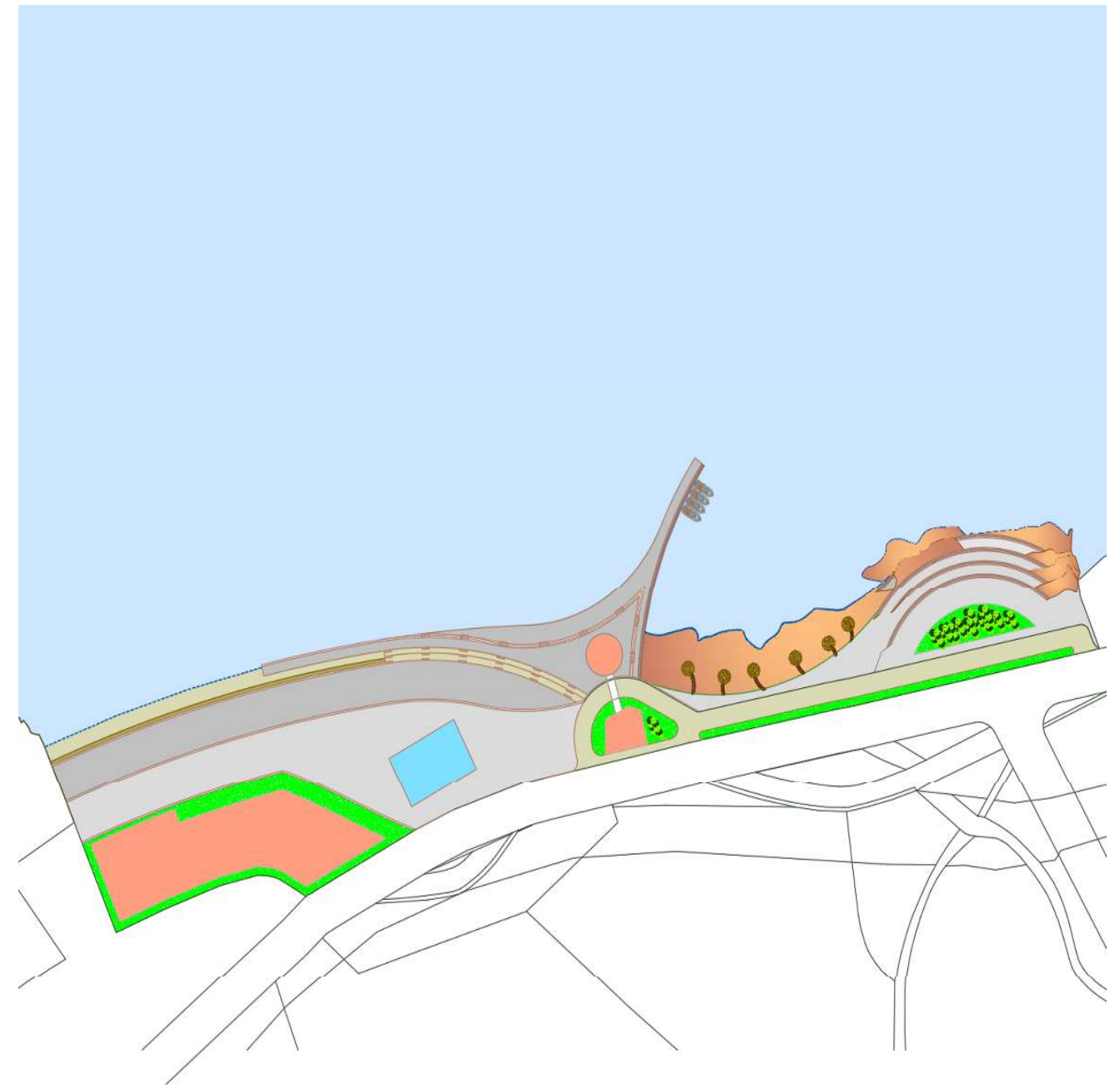
Location LEBANON - Hrayche
34°22'51" N
35°45'52" E

Consultant SEATEC sarl

Hrayche Waterfront

Year 2019 – 2020 – 2021 – 2022
Design / Surveying / Permitting

- Waterfront and beach development
- Main vertical concrete breakwater (L=64m) @max -3.00m MSL
- Mix of sloped rocky and vertical concrete sea wall protection of the reclaimed area (L=250m)
- Reclaimed area (11,250m²)
- Swimming pools, beach bar, restaurants
- Sandy beach (L=120m of shoreline)
- Berthing capacity (4 small motor boats)
- Topographic survey (54,000m²)
- Bathymetric survey (136,000m²)
- Drawings / BoQ
- Permitting



Ports / Surveying / Marinas / Coastal Protections / Revetments / Seawalls / Beaches / Permitting

Client HIBA REAL ESTATE
Location LEBANON - Hrayche
33°45'16" N
35°27'14" E
Consultant SEATEC sarl

Marina 576

Year 2011 – 2012
Conceptual Design

Year 2018
Design / Surveying / Permitting

- Marina Master Plan
- Berthing capacity (210 yachts)
- Main Breakwater (Rubble mound type, L=377m @max - 7.00m, core material, rocky filter and 16m³ concrete Accropodes blocks Type I)
- RC Crown walls
- Quaywalls (L=278m @-3.00m MSL) / Underwater concrete (Gravity QW)
- Quaywalls (L=152m @-4.50m MSL) / Underwater concrete (Gravity QW)

Ports / Surveying / **Marinas** / Coastal Protections / Seawalls / Lift Structures / Hoist / Beaches / Permitting



Marina 576

- Quaywalls (L=163m @-6.00m MSL) / Underwater concrete (Gravity QW)
- Finger Piers (L=206m @-3.00m MSL, Nbr 2) / Precast concrete elements
- Finger Pier (L=108m @-4.50m MSL, Nbr 1) / Precast concrete elements
- Marine accessories (Mooring bollards, fenders)
- Hoist (Boats lift - 150T capacity)
- Access bridge
- Natural beach conservation / swimming area
- Land reclamation and bituminous / RC Platforms
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master, restaurants, offices, shops (2,900m²)
- Petrol station
- Reclaimed area (38,958m²)
- Water body (32,276m²)
- Topographic survey (36,400m²)
- Bathymetric survey (279,000m²)
- Specifications / Drawings / BoQ / Permitting

*Ports / Surveying / **Marinas** / Coastal Protections / Seawalls / Lift Structures / Hoist / Beaches / Permitting*



JOUNIEH WATERFRONT

36

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Jounieh
33°59'43" N
35°38'23" E

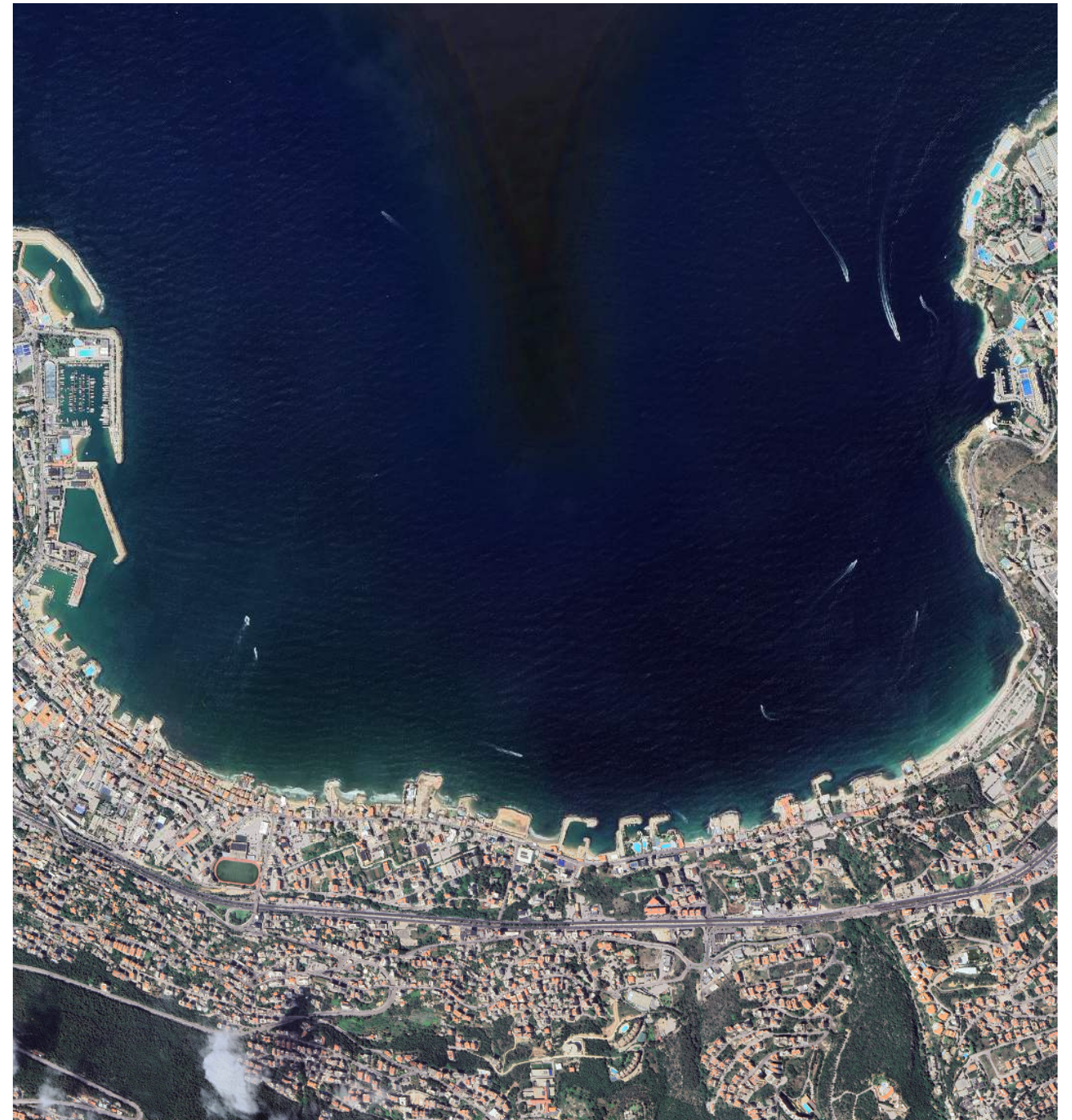
Consultant SEATEC sarl

Jounieh Waterfront

Year 2018 – 2019 – 2020
Conceptual Design / Surveying / Permitting

- Master Plan for Jounieh waterfront
- Southern fishing port (200 berths)
- Coastal walkway (L~4,000m)
- Nourished sandy beach (L~2,300m)
- Review of public maritime domain infringements
- Marina (360 berths)
- Public places and green areas
- Landscaping and recreational places
- Topographic survey (shoreline along 4,000m)
- Bathymetric survey (8,235,000m²)
- Drawings / Decree / Permitting

Ports / Surveying / Waterfronts / **Marinas** / Fishing Ports / Coastal Protections /
Revetments / Seawalls / Beaches / Permitting



EL-DJAZAIR MARINA (1/2)

37

Client Consolidated Contractor Company (CCC)

Location ALGERIA – Sidi Fredj
36°45'36" N
2°51'19" E

Consultant SEATEC sarl

El-Djazair Marina

Year 2019
Preliminary Design

- Marina Master Plan
- Berthing capacity (87 yachts)
- Main Breakwater (Rubble mound type, L=600m @max -7.00m, core material, rocky filter and precast concrete Accropodes blocks)
- Secondary Breakwater (Rubble mound type, L=200m @max -4.00m, core material, rocky filter and armor layer)
- RC Crown walls Marina Master Plan
- Quaywalls (L=390m @-3.50m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=295m @-5.00m MSL) / Precast concrete blocks (Gravity QW)

Ports / Marinas / Coastal Protections / Revetments / Beaches / Lift Structures / Hoist



El-Djazair Marina

- Finger Pier (L=54m @-3.50m MSL, Nbr 1) / Precast concrete elements
- Finger Pier (L=54m @-5.00m MSL, Nbr 1) / Precast concrete elements
- Drying, maintenance and storage area with hoist structure
- Asphalted and RC Platforms (22,100m²)
- Heliport
- Underground passage
- Landscape
- Beach bar
- Natural swimming area (sandy beach)
- Marina master, restaurants, offices, shops, recreational facilities...(6,600m²)
- Fueling station
- Water body (37,600m²)
- Drawings / BoQ / 3D animation

Ports / Marinas / Coastal Protections / Revetments / Beaches / Lift Structures / Hoist



SAMAR RESORT

39

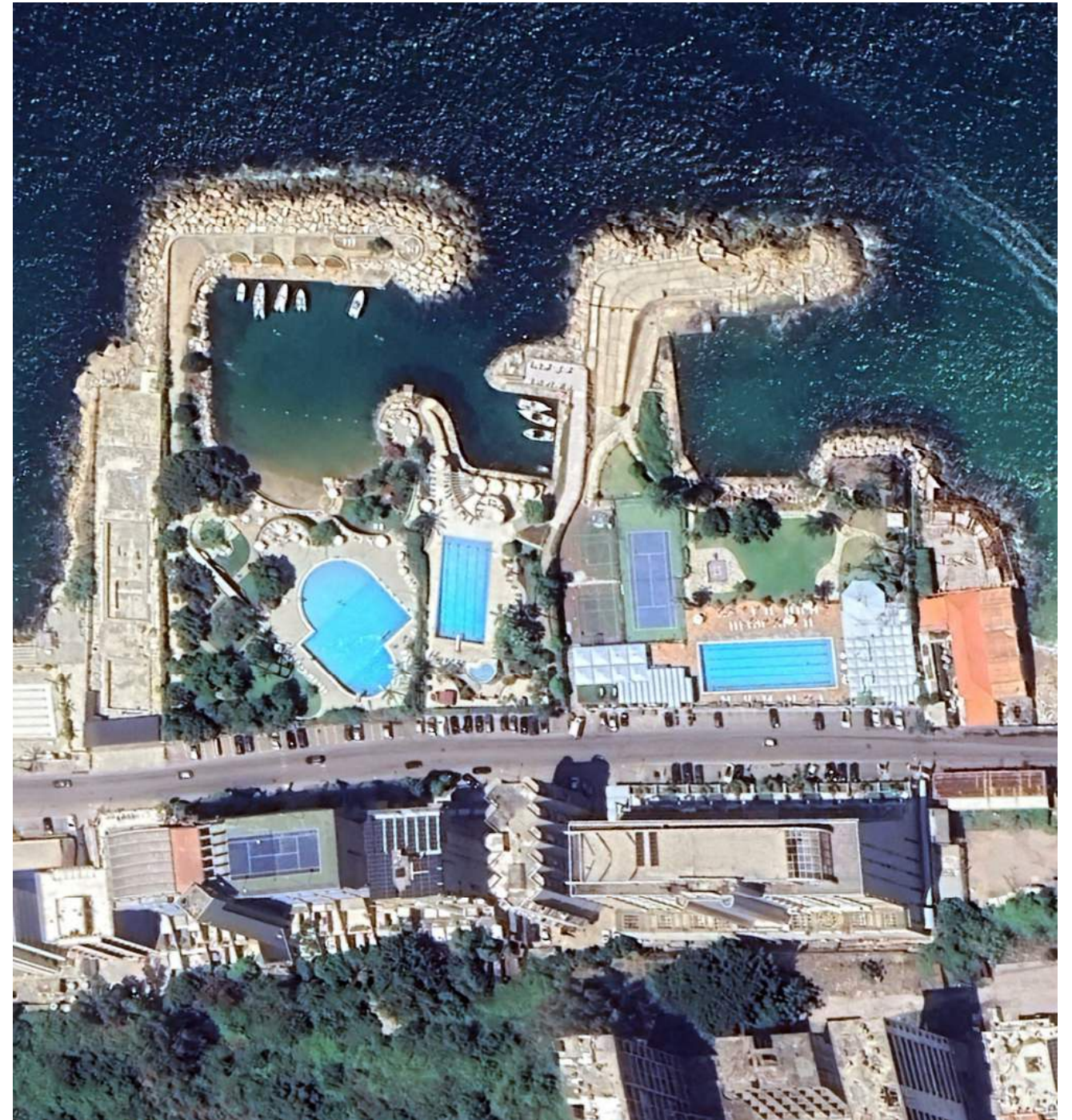
Client TAYEH
Location LEBANON – Jounieh
33°59'58" N
35°38'35" E
Consultant SEATEC sarl

Samar Resort

Year 2018
Surveying / Permitting

- Settlement of Public Maritime Domain Occupancy: Drawings and settlement file submitted to the MPWT / DGLMT according to Law N64 dated 25/10/2017 (Permitting)
- Permit (Decree) for the reclaimed land and buildings occupancy
- Topographic survey (2,400m²)
- Drawings / Permitting

Ports / Marinas / Surveying / Permitting



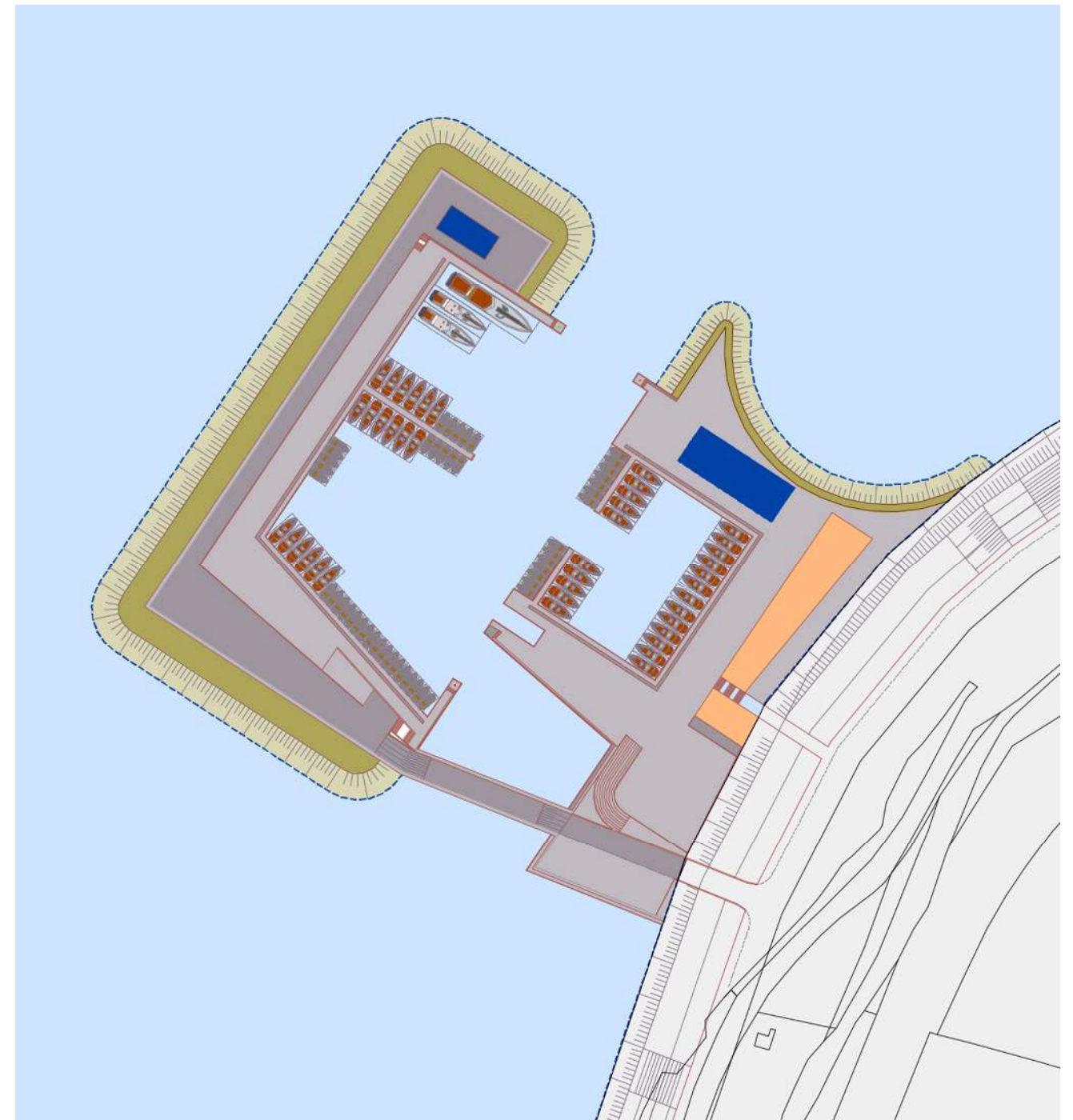
Client SOFIM
Location LEBANON – Dbayeh
33°57'16" N
35°35'34" E
Consultant SEATEC sarl

Sofim Marina

Year 2017
Design / Surveying / Permitting

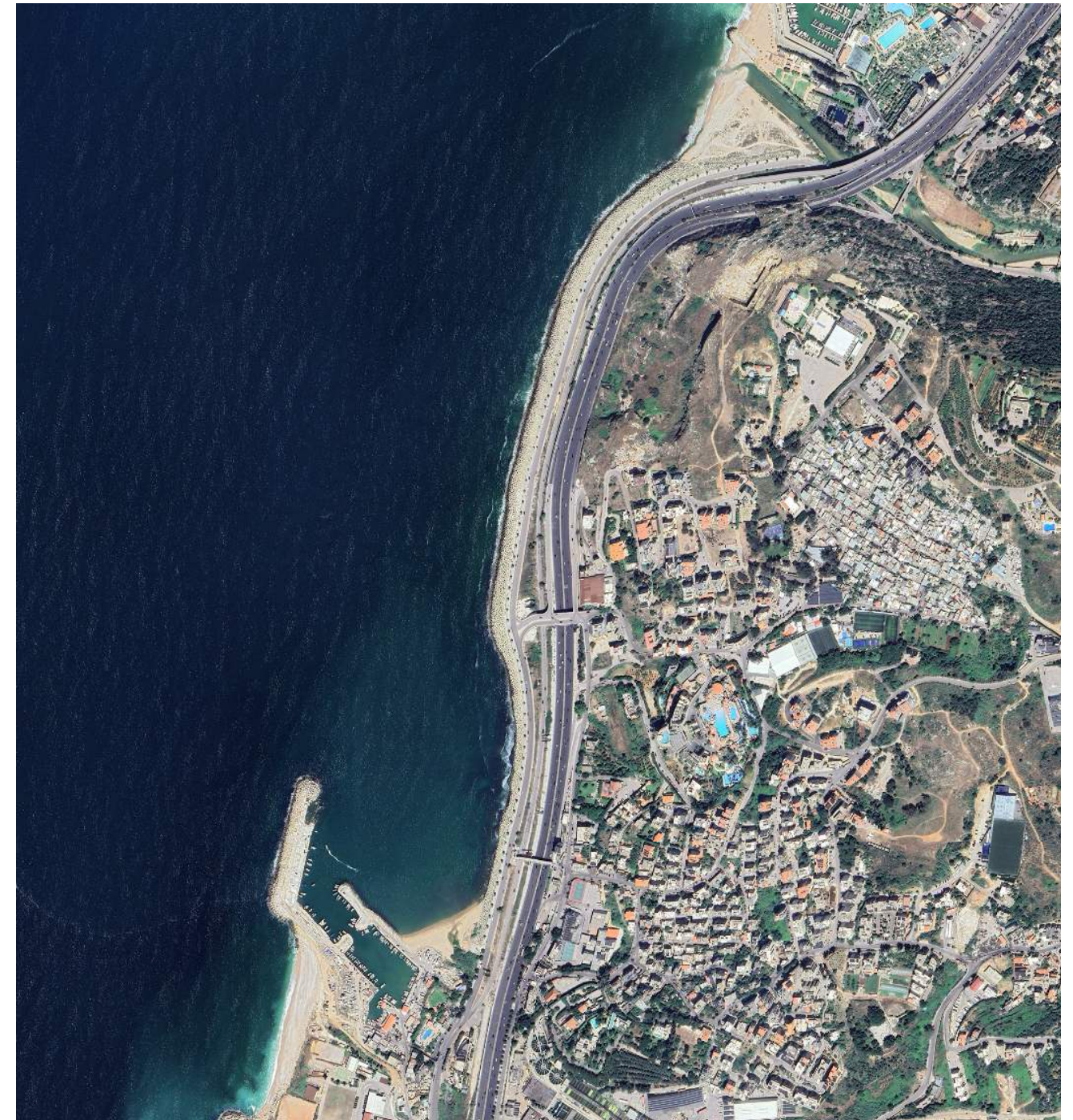
- Marina Master Plan
- Berthing capacity (90 yachts)
- Main Breakwater (Rubble mound type, L=525m, core material, rocky filter and precast concrete Accropodes blocks Type I)
- Secondary Breakwater (Rubble mound type, L=200m, core material, rocky filter and rocky armor layer)
- RC crown walls
- Quaywalls (L=900m) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=105m, Nbr 3) / Precast concrete elements
- Asphalted and concrete platforms
- Hoist

Ports / Marinas / Surveying / Lift Structures / Hoist / Permitting



Sofim Marina

- Bridges
- Accessories (Bollards, fenders, lighting, water supply, fuel station...)
- Administration building, restaurants, landscape...
- Topographic survey
- Bathymetric survey (200,000m²)
- Specifications / Drawings / BoQ
- Permitting / Decree drawing



Ports / Marinas / Surveying / Lift Structures / Hoist / Permitting

KFARYASSINE MARINA

42

Client ZR Development and Tourism

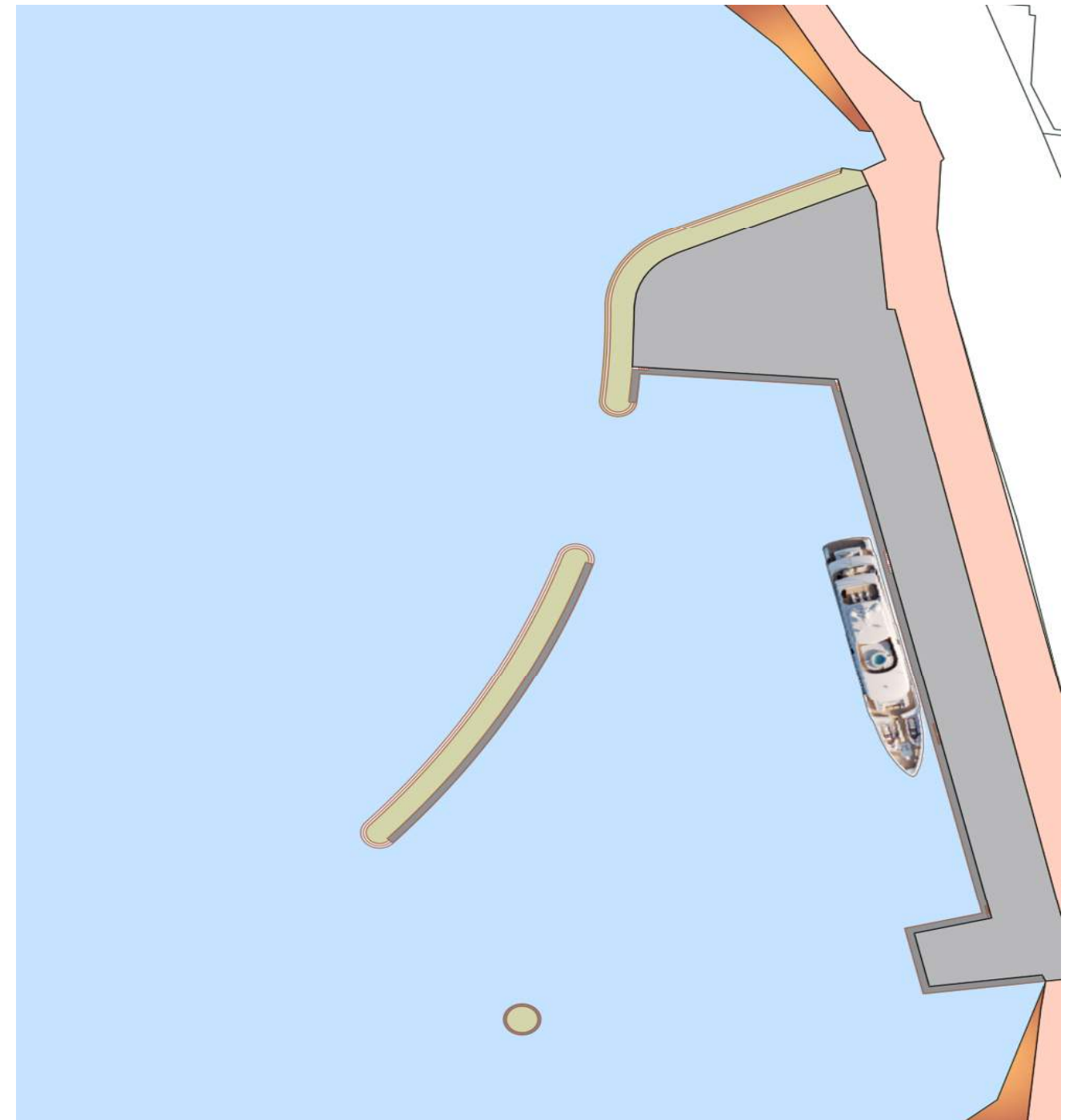
Location LEBANON – Kfaryassine
34°00'46" N
35°38'22" E

Consultant SEATEC sarl

Kfaryassine Marina

Year 2017 – 2018 – 2019
Design / Surveying / Permitting

- Marina Master Plan
- Main Breakwater (Concrete vertical BW)
- Quaywalls (L=220m) / Underwater concrete blocks (Gravity QW)
- Asphalted and concrete platforms
- Accessories (bollards, fenders, lighting, water supply...)
- Topographic survey
- Bathymetric survey (100,000m²)
- Specifications / Drawings / BoQ
- Permitting / Decree drawing



Ports / Marinas / Surveying / Permitting

DREDGING AT EASTERN MARINA

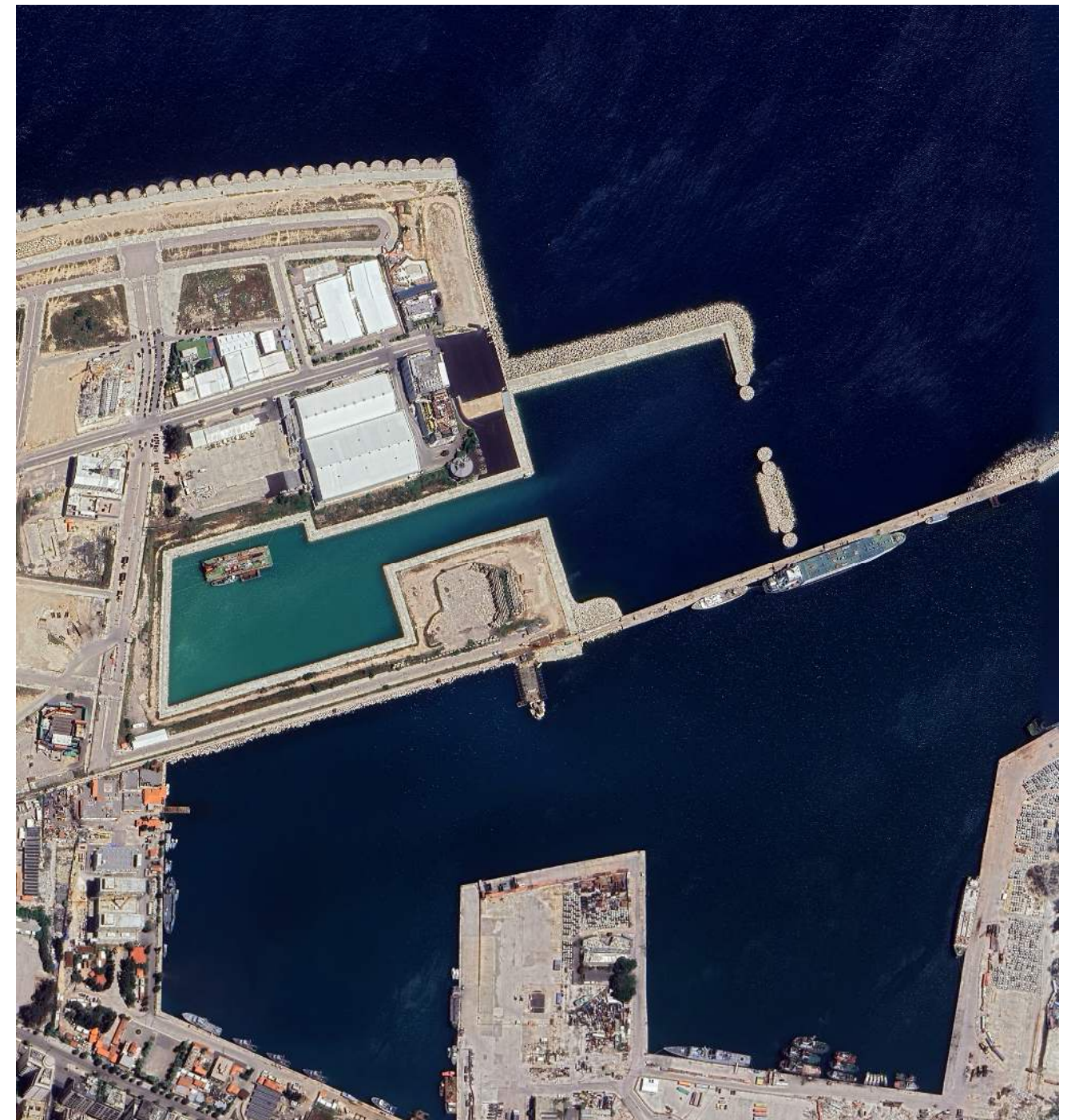
43

Client ARACO
Location LEBANON – Beirut
33°54'20" N
35°30'46" E
Consultant SEATEC sarl

Dredging at Eastern Marina

Year 2017
Surveying

- Topographic survey of the shoreline
- Bathymetric survey (204,000m²)
- Drawings



Ports / Marinas / Surveying / Dredging

NATOUR DEVELOPMENT

44

Client Natour Development sal

Location LEBANON – Beirut
34°22'28" N
35°44'10" E

Consultant SEATEC sarl

Natour Development

Year 2016 – 2017 – 2018 – 2019
Design / Surveying / Permitting

- Fishing / Marina Master Plan
- Vertical Concrete Main Breakwater
- Quaywalls / underwater concrete blocks (Gravity QW)
- Concrete platforms
- Dredging and excavation works for access channel and basin
- Accessories (Jib Crane, mooring bollards, fenders, lighting, water supply...)
- Beach Club design (Waves run-up / overtopping assessment)
- Waterfront protection
- Topographic survey
- Bathymetric survey (5,920,000m²)
- Underwater inspection
- Specifications / Drawings / BOQ / Permitting

Ports / Marinas / Fishing Ports / Waterfronts / Coastal Protections / Seawalls / Lift Structures / Hoists / Surveying



LINOR WATERFRONT (1/2)

45

Client N/A

Location LEBANON – Antelias
33°54'30" N
35°34'34" E

Consultant SEATEC sarl

Linor Waterfront

Year 2016 – 2017 – 2018 – 2019 – 2020
Design / Surveying / Permitting

- Master Plan
- Reclaimed area (1,225,000m²)
- High rise, residential, offices (172,400m²)
- Retail (65,700m²)
- Villas (79,100m²)
- Private beach (36,100m²)
- Green areas and public beach (70,250m²)
- Marina: Reclaimed area (60,000m²)
- Water body Basin (58,000m²)
- Berthing capacity (640 Yachts)
- Recreational attractions (74,900m²)
- Walkways / Water promenade (443,000m²)
- Highways and roads (244,000m²)

Ports / Marinas / Fishing Ports / Waterfronts / Service Ports / Coastal Protections /
Revetments / Seawalls / Lift Structures / Hoists / Surveying



Linor Waterfront

- Main breakwater (Rubble mound type, L=1,850m, core material, rocky filter and precast concrete Accropodes blocks Type II)
- Waterways and channels
- Fishing port: Reclaimed area (37,000m²)
Water body Basin (35,000m²)
Berthing capacity (450 Fishing boats)
- Service port (Water taxi):
Reclaimed area (37,000m²)
Water body Basin (7,500m²)
Berthing capacity (50 water taxi)
- Service port (Hoist and maintenance area):
Reclaimed area (8,000m²)
Water body Basin (2,000m²)
Berthing capacity (10 boats)
- Bathymetric survey (1,740,000m²)
- Drawings / BoQ / Permitting

Ports / Marinas / Fishing Ports / Waterfronts / Service Ports / Coastal Protections / Revetments / Seawalls / Lift Structures / Hoists / Surveying



DALFA MARINA (1/2)

47

Client Ain Mreisse 733 sal

Location LEBANON – Beirut
33°54'02" N
35°28'17" E

Consultant SEATEC sarl

Dalfa Marina

Year 2016
Design / Surveying / Permitting

- Marina Master Plan
- Berthing capacity (5 yachts and jet skis)
- Main Breakwater (Vertical Concrete type, L=152m @max -4.00m)
- RC seawalls
- Quaywalls (L=47m @-3.00m MSL) / Underwater concrete blocks (Gravity QW)
- Marine accessories (Mooring bollards, fenders)
- RC platforms
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes,)

Ports / Marinas / Coastal Protections / Revetments / Seawalls / Surveying / Permitting



Dalfa Marina

- Restaurants, offices (399m²)
- 3 open air basket ball courts
- Reclaimed area (7,629m²)
- Water body (395m²)
- Topographic survey (6,700m²)
- Bathymetric survey (175,300m²)
- Specifications / Drawings / BoQ / Permitting



Ports / Marinas / Coastal Protections / Revetments / Seawalls / Surveying / Permitting

ATCL MARINA

49

Client Automobile Touring Club du Liban (ATCL)

Location LEBANON – Kaslik
33°59'17" N
35°37'14" E

Consultant SEATEC sarl

ATCL Marina

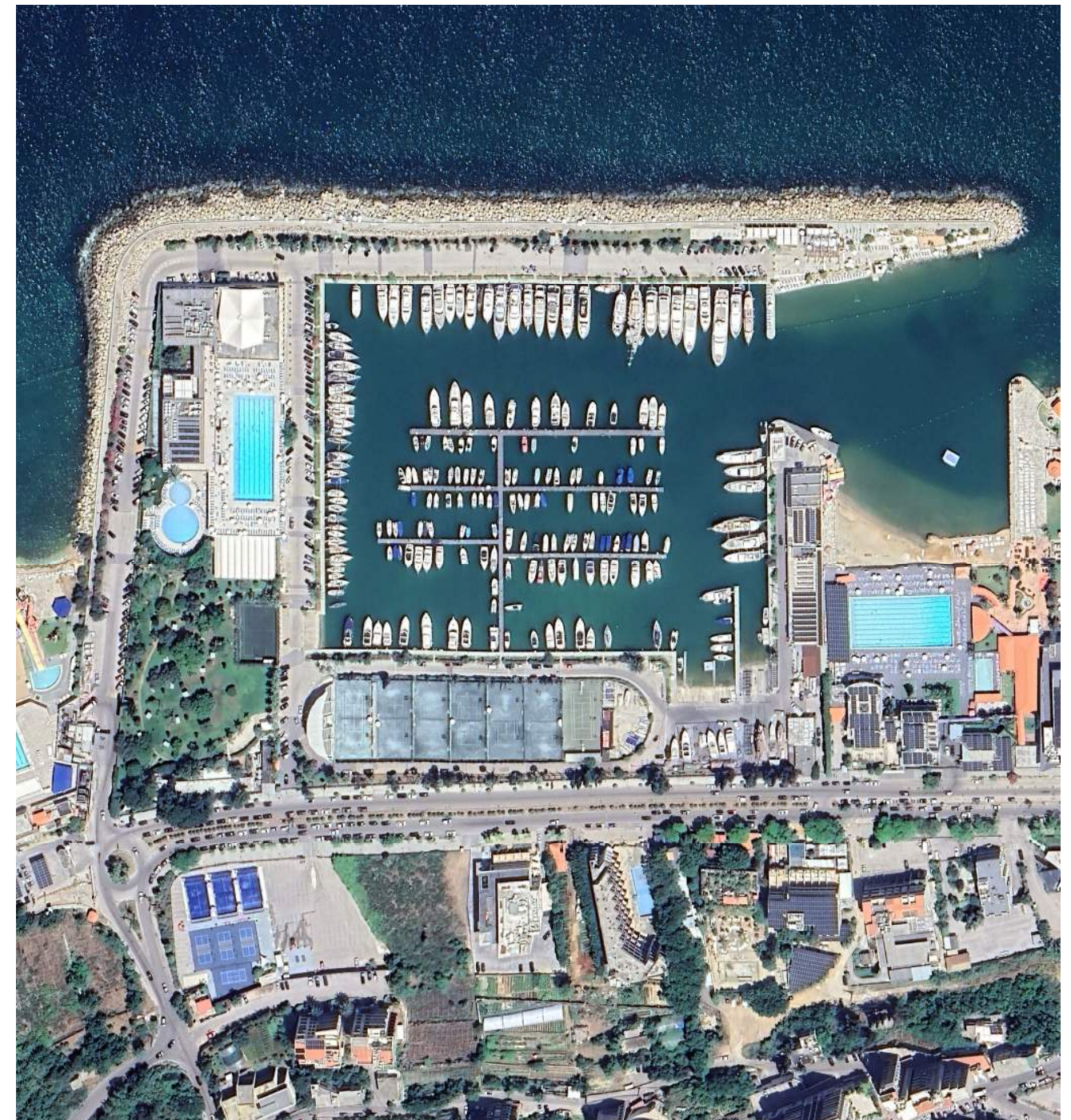
Year 2015 – 2016
Design / Surveying / Permitting

- Rehabilitation works of the main breakwater rocky armor layer:
 - 1) 6.3m3 precast concrete Accropodes blocks Type I (1st variant)
 - 2) 8-15T rocks (2nd variant) - Executed
- Topographic survey (19,500m2)
- Bathymetric survey (175,200m2)
- Tender Documents / Specifications / Drawings / BoQ / Permitting

Year 2016
Works Supervision

- Contractor : Khoury Contracting Company sarl (KCC)
- Duration : 4 months

Ports / Marinas / Surveying / Permitting



DREDGING AT HALATE SUR MER MARINA

50

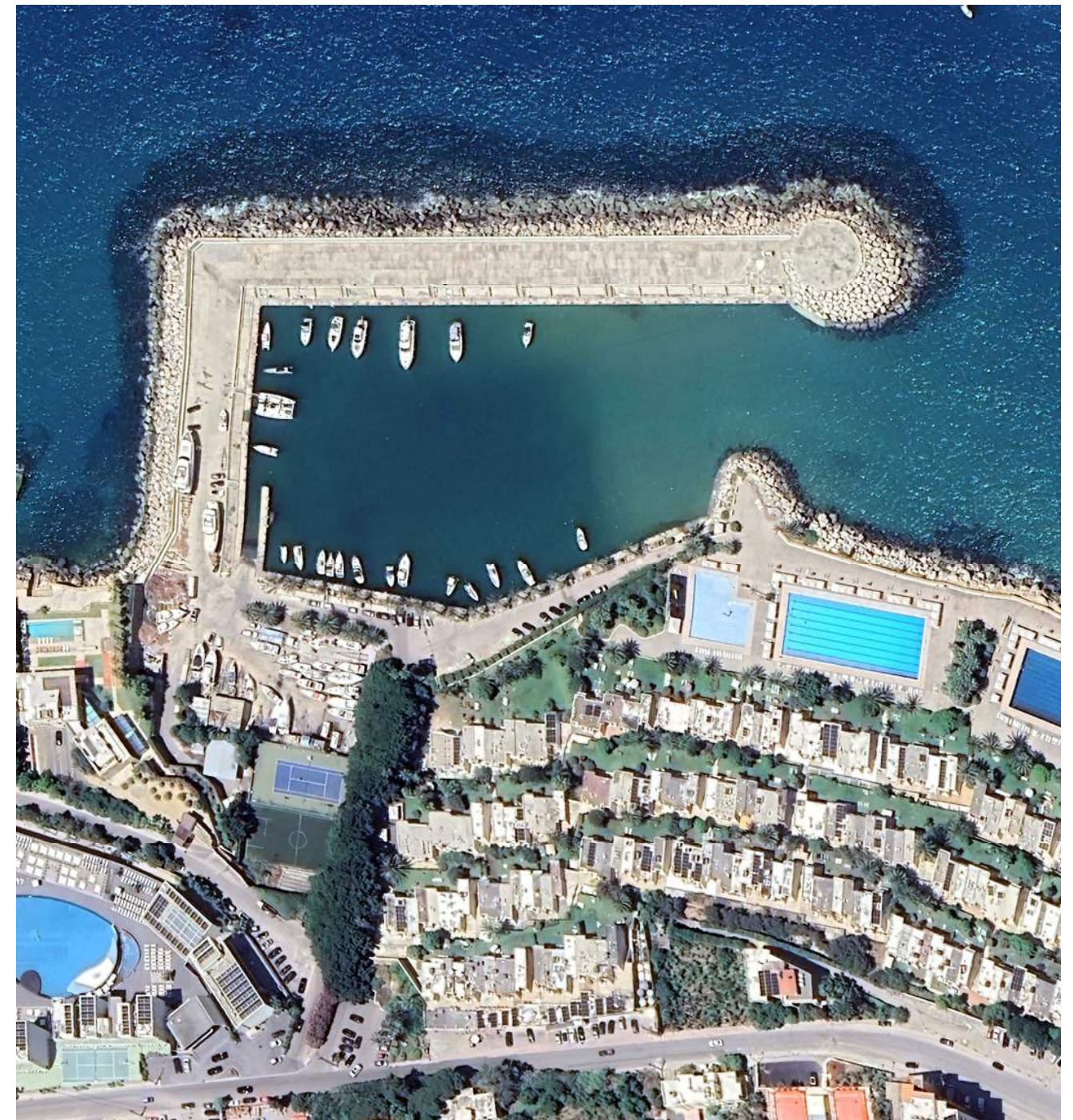
Client Halate Sur Mer
Location LEBANON – Halate
34°5'31" N
35°38'55" E
Consultant SEATEC sarl

Dredging at Halate Sur Mer Marina

Year 2018
Design / Surveying / Permitting

- Dredging at marina entrance (4,350m²)
- Topographic survey
- Bathymetric survey (4,000m²)
- Drawings / BoQ / Permitting

Ports / Marinas / Dredging / Surveying / Permitting



BRANDARIS BAY MARINA (1/2)

51

Client MICADA sal
Location LEBANON – Hamat
34°18'16" N
35°40'18" E
Consultant SEATEC sarl

Brandaris Bay Marina

Year 2015 – 2016 – 2017
Design / Surveying / Permitting

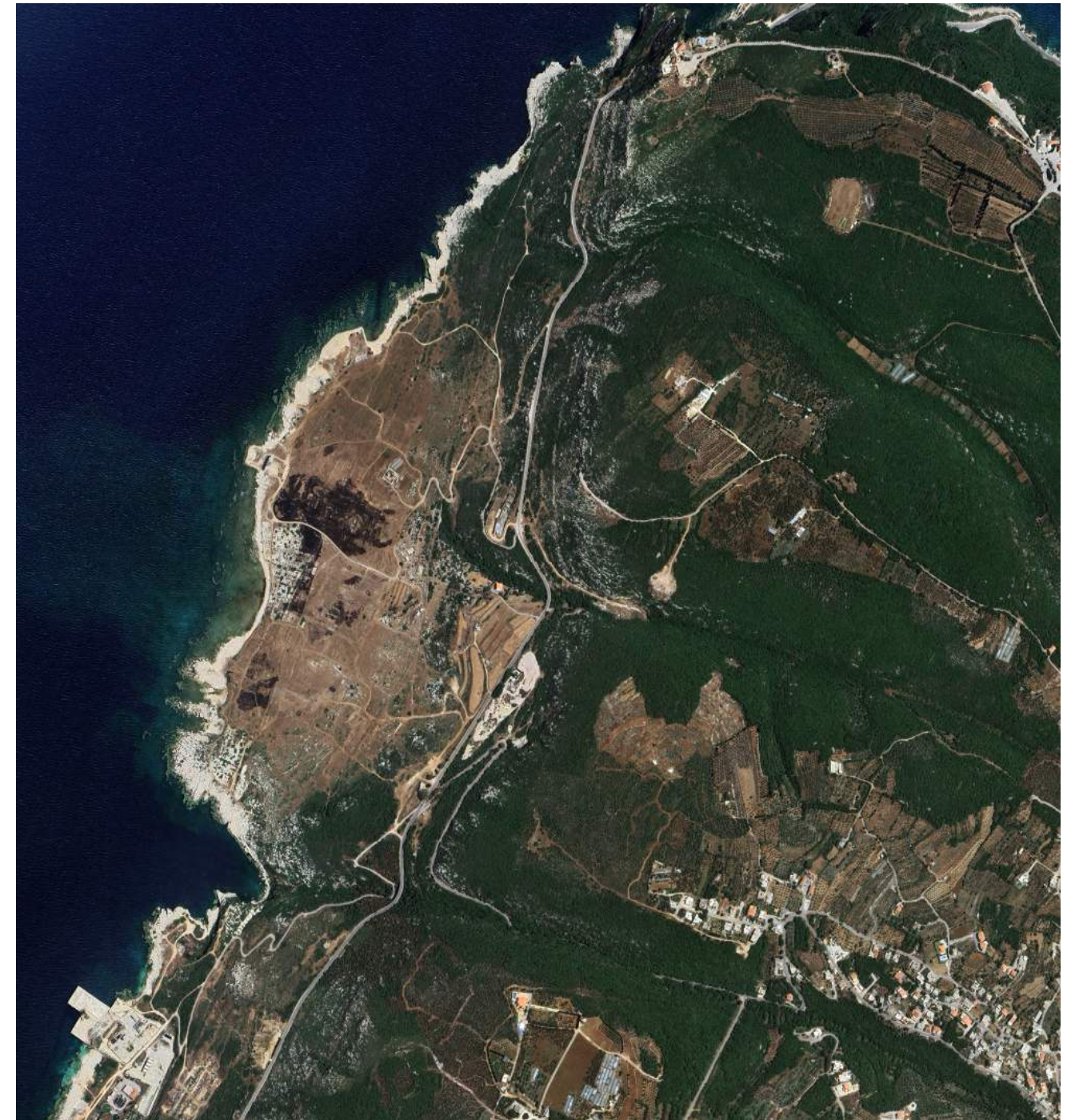
- Marina Master Plan
- Berthing capacity (200 yachts)
- Main Breakwater (Vertical RC perforated Caisson type, L=510m @max -23.00m)
- Secondary Breakwater (Vertical RC perforated Caisson type, L=307m @max -21.00m)
- Quaywalls (L=422m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=220m @-6.50m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=342m @-3.00m MSL, Nbr 4) / Precast concrete elements
- Land reclamation and bituminous / RC Platforms
- RC and bituminous platforms

Ports / Marinas / Coastal Protections / Seawalls / Surveying / Permitting



Brandaris Bay Marina

- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master, restaurants, offices, shops (4,889m²)
- Fueling station
- Reclaimed area (42,587m²)
- Water body (66,253m²)
- Specifications / Drawings / BoQ / Permitting



Ports / Marinas / Coastal Protections / Seawalls / Surveying / Permitting

KOBBEH MARINA (1/2)

53

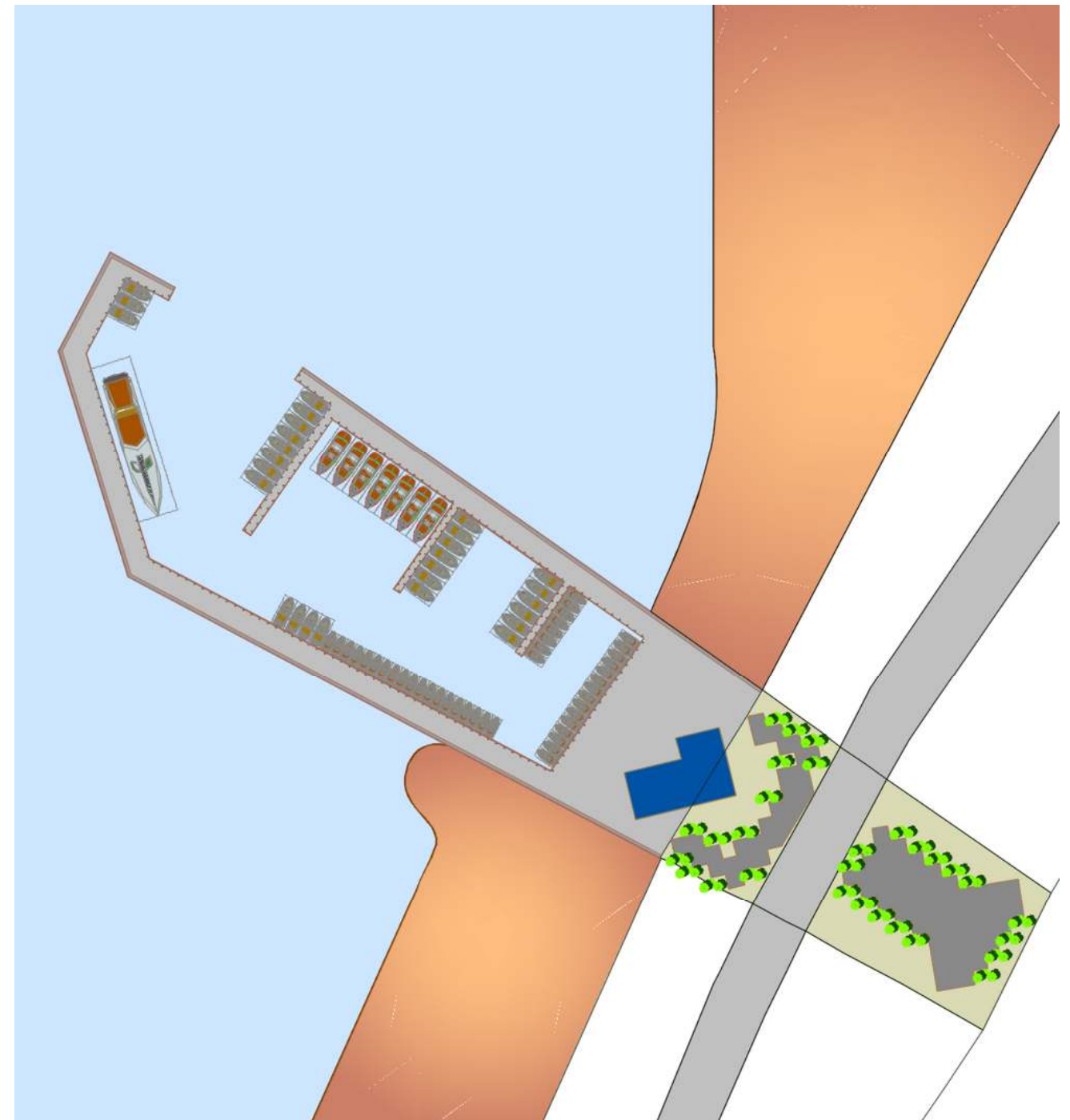
Client MIRADOR Hotel
Location LEBANON – Kobbah
33°46'52" N
35°28'17" E
Consultant SEATEC sarl

Kobbah Marina

Year 2015
Design / Surveying / Permitting

- Marina Master Plan
- Berthing capacity (55 yachts)
- Main Breakwater (Vertical Concrete type, L=204m @max -5.00m)
- Secondary Breakwater (Vertical Concrete type, L=97m @max -2.50m)
- RC seawalls
- Quaywalls (L=182m @-3.00m MSL) / Underwater concrete blocks (Gravity QW)
- Quaywalls (L=98m @-4.00m MSL) / Underwater concrete blocks (Gravity QW)
- Finger Pier (L=20m @-3.00m MSL, Nbr 1) / Underwater concrete blocks

Ports / Marinas / Surveying / Permitting



Kobbeh Marina

- Marine accessories (Mooring bollards, fenders)
- RC platforms
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master headquarter, restaurants, offices, shops (280m²)
- Fueling station
- Reclaimed area (4,130m²)
- Water body (5,110m²)
- Topographic survey (1,200m²)
- Bathymetric survey (25,000m²)
- Specifications / Drawings / BoQ / Permitting



Ports / Marinas / Surveying / Permitting

MOVENPICK MARINA (1/2)

55

Client Movenpick Hotel and Resort

Location LEBANON – Beirut
33°53'00" N
35°28'22" E

Consultant SEATEC sarl

Movenpick Marina Rehabilitation Works

Year 2015
Design / Surveying / Permitting

- Main Breakwater (Rubble mound type, removal of damaged 16m³ precast concrete Accropodes blocks from the armor layer and replacement by 8 new ones)
- Slabs on grade along main breakwater (Demolishing casting of 30m long)
- Quaywalls (Demolition and casting of 36m long of capping beams and 142m of channels edges and covers)
- Anti-scouring measures (underwater concrete along 219m of quaywalls foundations @ -3.00m MSL to fill cavities)
- Finger Pier (Replacement of 45m² wooden deck)
- Marine accessories (Mooring bollards, fenders)
- Marina Fire extinguisher pipes with gate valves
- Setting up of observation points system for levels

Ports / Marinas / Surveying / Permitting



Movenpick Marina Rehabilitation Works

- Dismantling of existing precast concrete blocks at entrance and casting of underwater concrete block @ -3.00m MSL
- RC capping beam at entrance with related RC wall
- Monitoring in critical areas along main breakwater and quays with coordinate system and observation schedule
- Topographic survey (along quaywalls)
- Bathymetric survey (along quaywalls)
- Underwater investigation by divers (Videos and pics)
- Specifications / Drawings / BoQ / Permitting

Year 2015
Works Supervision (1st phase)

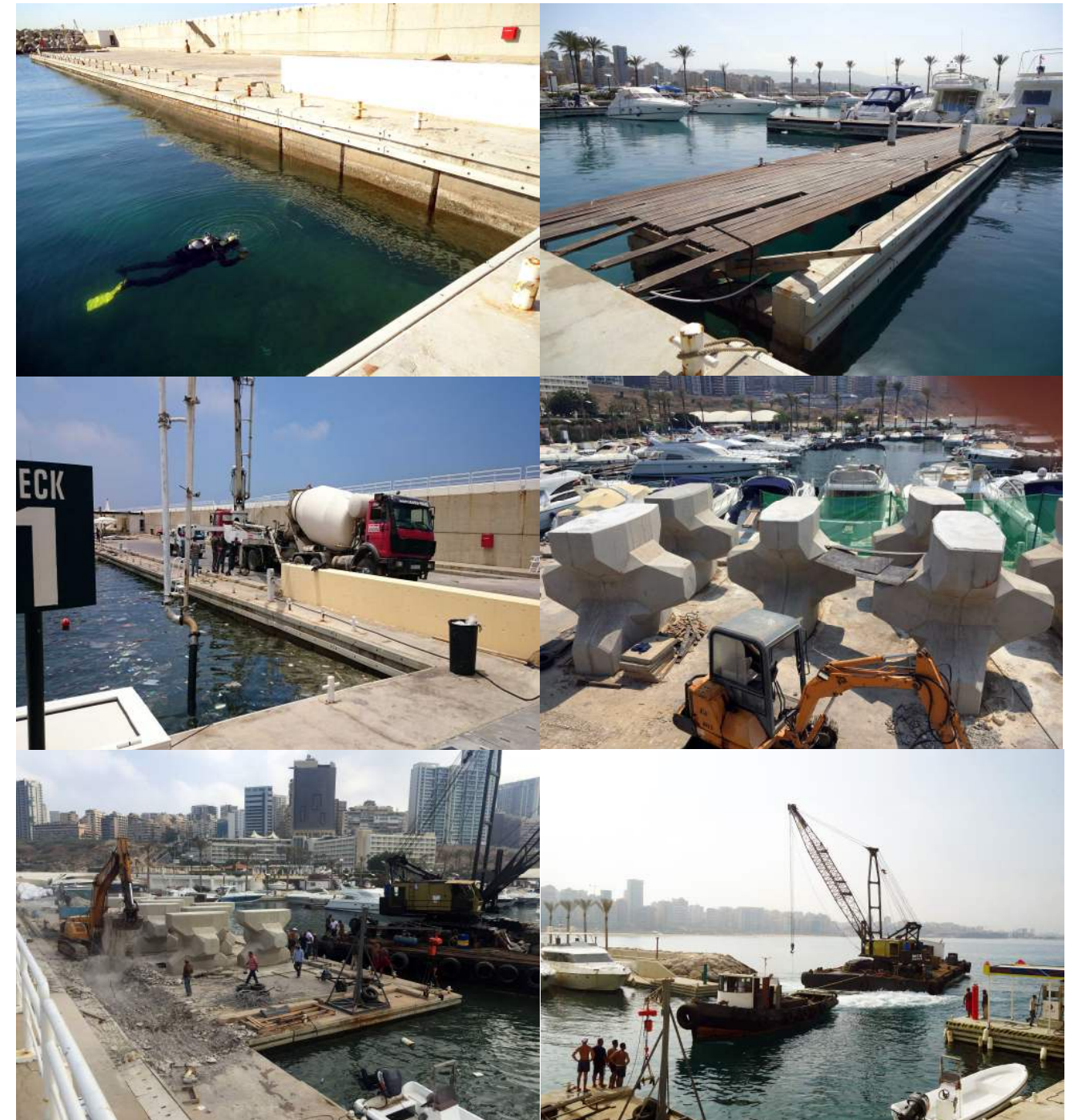
- Contractor : MARCONTRACTING
- Duration : 1 month

Year 2016
Works Supervision (2nd phase)

- Contractor : Khoury Contracting Company sarl (KCC)
- Duration : 1 month

Year 2017 – 2018 – 2023
Inspection and Audit

Ports / Marinas / Surveying / Permitting



BYBLOS MARINA (1/2)

57

Client Byblos Municipality

Location LEBANON – Byblos
34°7'43" N
35°38'14" E

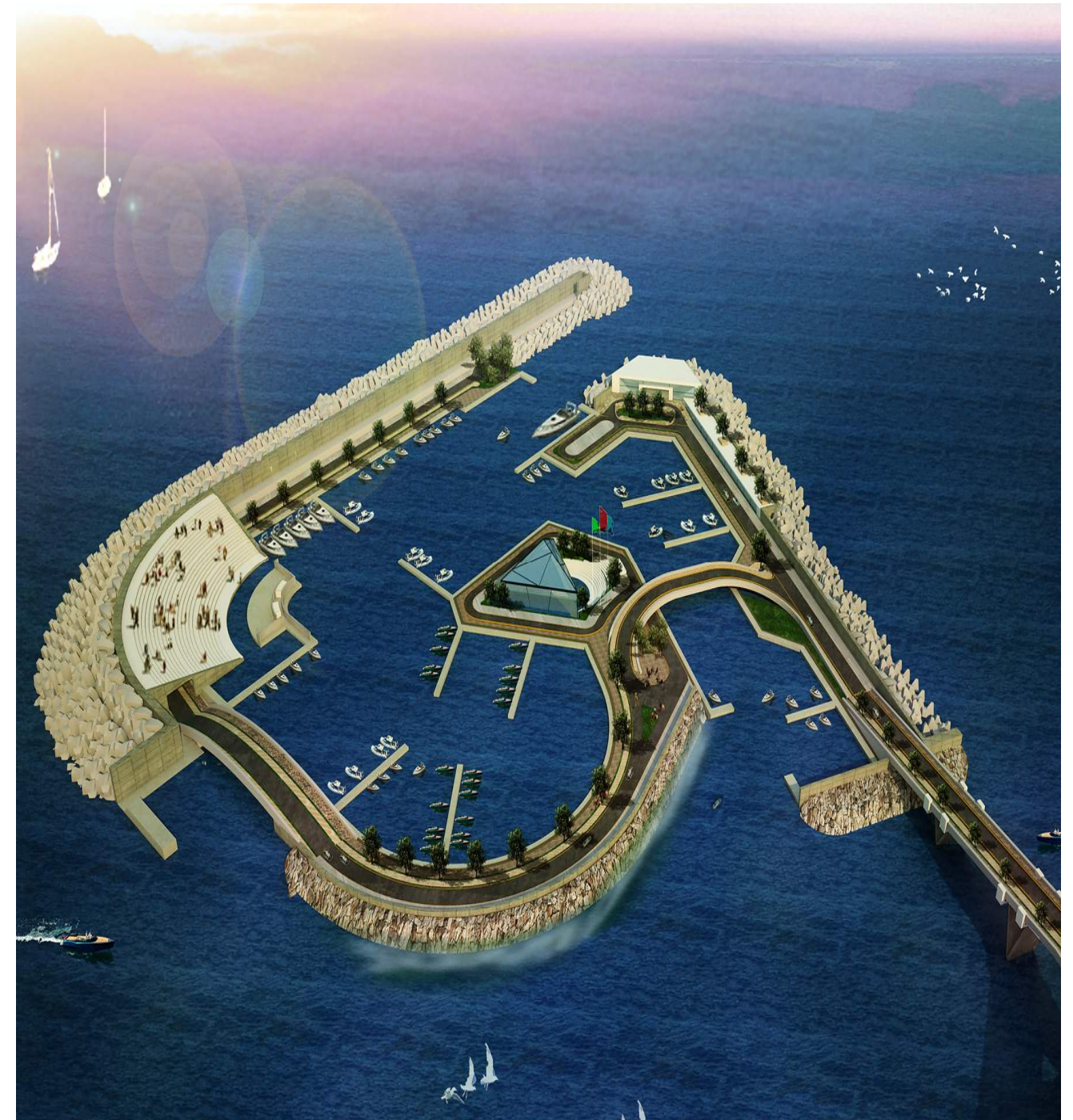
Consultant SEATEC sarl

Byblos Marina

Year 2014 – 2016 – 2017
Conceptual Design / Surveying

- Island marina linked to the shore by a bridge
- Marina Master Plan
- Berthing capacity (325 yachts)
- Access bridge (L=120m)
- Main Breakwater (Rubble mound type, L=560m @max -16.00m, core material, rocky filter and 16m3 concrete Accropodes blocks Type I)
- Secondary Breakwater (Rubble mound type, L=325m @max -12.00m, core material, rocky filter and 16m3 concrete Accropodes blocks Type I)
- RC Crown walls
- Quaywalls (L=170m @-2.50m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=914m @-3.00m MSL) / Precast concrete blocks (Gravity QW)

Ports / Marinas / Lift Structures / Slipways / Surveying



Byblos Marina

- Quaywalls (L=170m @-2.50m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=914m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Pier (L=40m @-4.50m MSL, Nbr 1) / Precast concrete elements
- Finger Piers (L=350m @-3.00m MSL, Nbr 9) / Precast concrete elements
- Slipway
- Asphalted and RC Platforms / Bicycle tracks / landscape
- Natural swimming area (pebbles beach)
- Marina master headquarter, restaurants, offices, shops, recreational facilities...
- Fueling station
- Open air theater and bleachers (4,500m²)
- Reclaimed area (71,000m²)
- Water body (54,700m²)
- Topographic survey (15,000m²)
- Bathymetric survey (220,000m²)
- Drawings / BoQ



Ports / Marinas / Lift Structures / Slipways / Surveying

PROTARAS MARINA

59

Client Moubayed

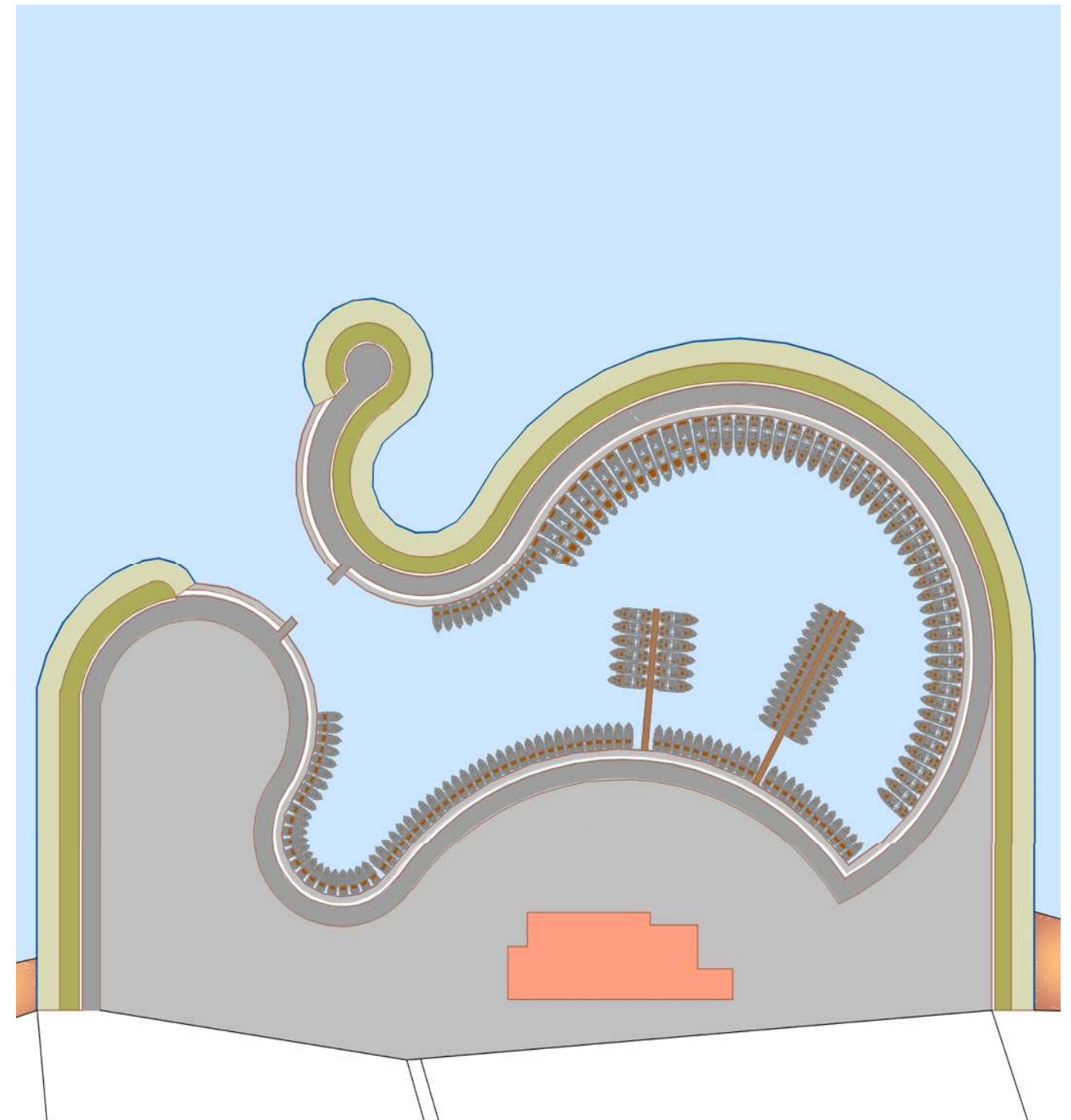
Location CYPRUS – Protaras
35°2'55" N
34°1'42" E

Consultant SEATEC sarl

Protaras Marina

Year 2014
Conceptual Design

- Marina Master Plan
- Berthing capacity (190 yachts)
- Main Breakwater (Rubble mound type, L=550m)
- Quaywalls (L=690m) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=122m Nbr 2)
- Reclaimed area (24,300m²)
- Water body (23,000m²)
- Drawings / BoQ



Ports / Marinas

TRIPOLI MARINA (1/2)

60

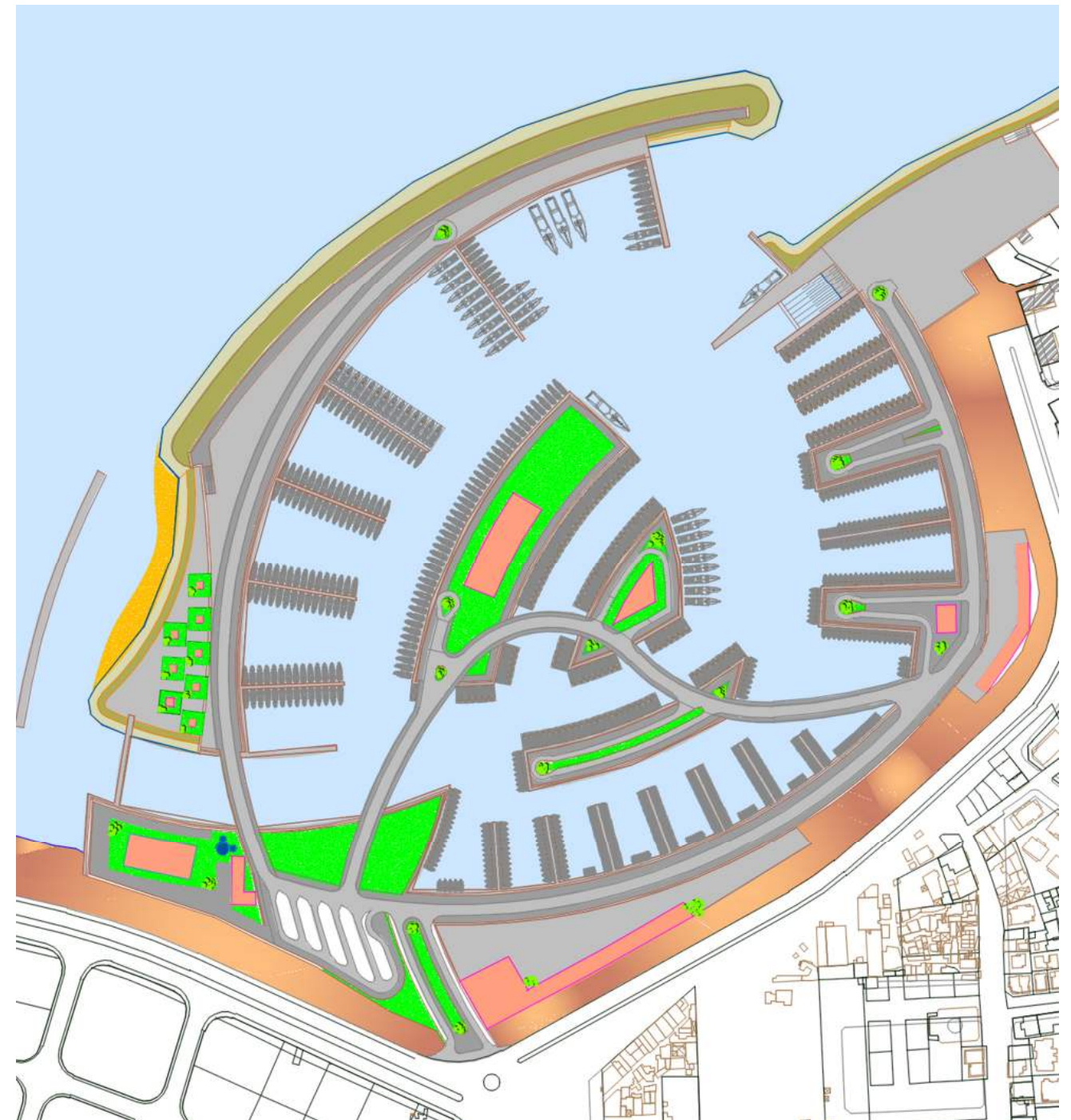
Client SOTEG
Location LEBANON – Tripoli
34°27'9" N
35°48'22" E
Consultant SEATEC sarl

Tripoli Marina

Year 2014 – 2016
Conceptual Design / Surveying

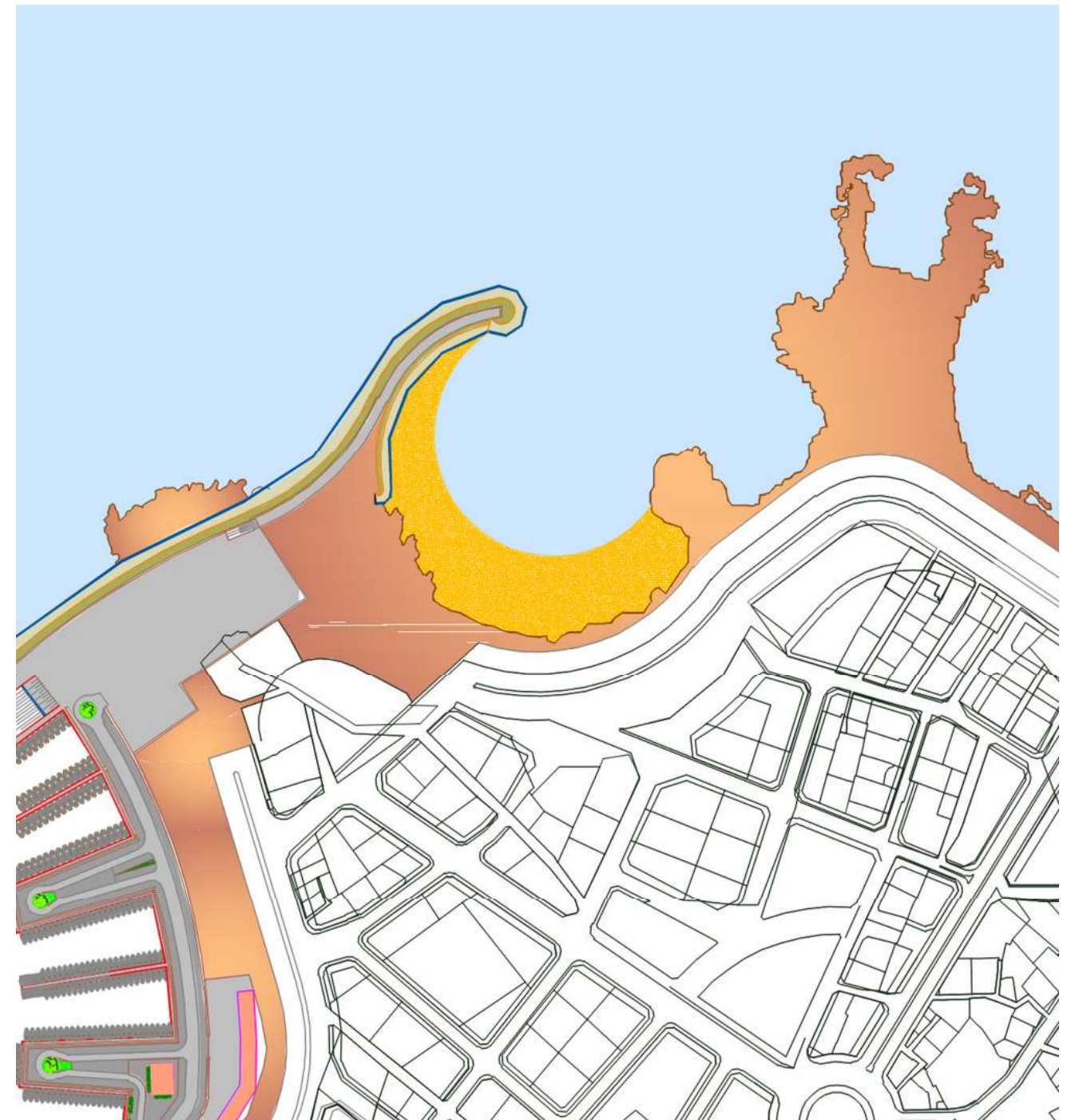
- Marina Master Plan
- Berthing capacity (975 yachts)
- Main Breakwater (Rubble mound type, L=880m @max -8.00m, core material, rocky filter and concrete Accropodes blocks Type I)
- Detached vertical breakwater (Underwater concrete, L=197m @max -3.00m)
- RC Crown walls
- Quaywalls (L=3,315m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=950m @-3.00m MSL, Nbr 14) / Precast concrete elements
- Slipway (Boat ramp)
- Marine accessories (Mooring bollards, fenders)

Ports / Marinas / Coastal Protections / Revetments / Seawalls / Lift Structures / Slipways / Beaches / Surveying



Tripoli Marina

- Land reclamation and bituminous / RC Platforms
- Green spaces
- Access bridges
- Marina master headquarter, restaurants, offices, shops (11,700m²)
- Parking (25,200m²)
- Fueling station
- Sandy beach nourishment and stabilization (L=330m)
- Reclaimed area (176,500m²)
- Water body (197,500m²)
- Topographic survey (20,000m²)
- Bathymetric survey (377,400m²)
- Drawings / BoQ



Ports / Marinas / Coastal Protections / Revetments / Seawalls / Lift Structures / Slipways / Beaches / Surveying

NAOURA MARINA (1/2)

62

Client Naoura Real Estate Co sal

Location LEBANON – Hery
34°18'17" N
35°42'15" E

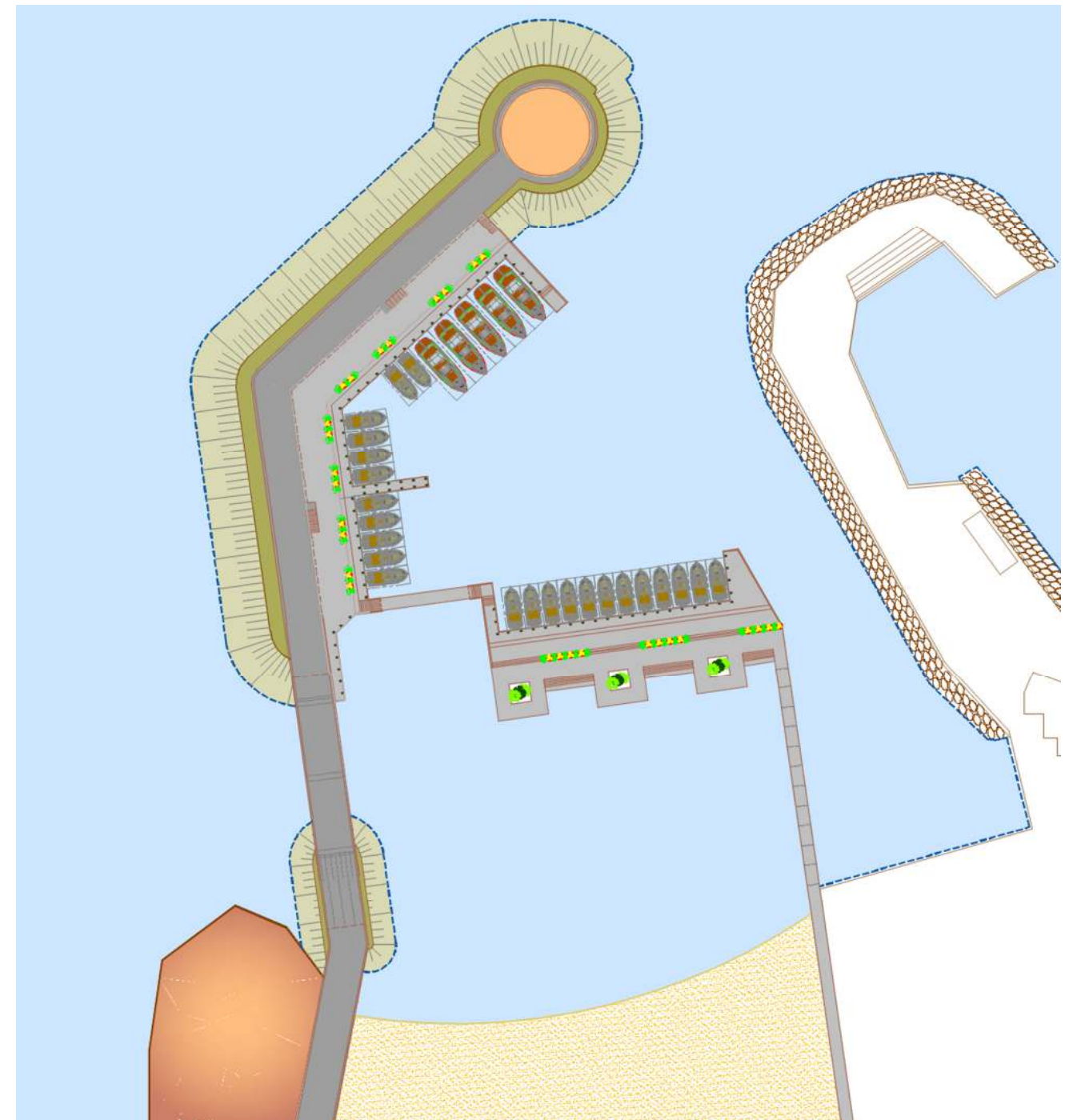
Consultant SEATEC sarl

Naoura Marina

Year 2014 – 2015 – 2017 – 2018
Design / Surveying / Permitting

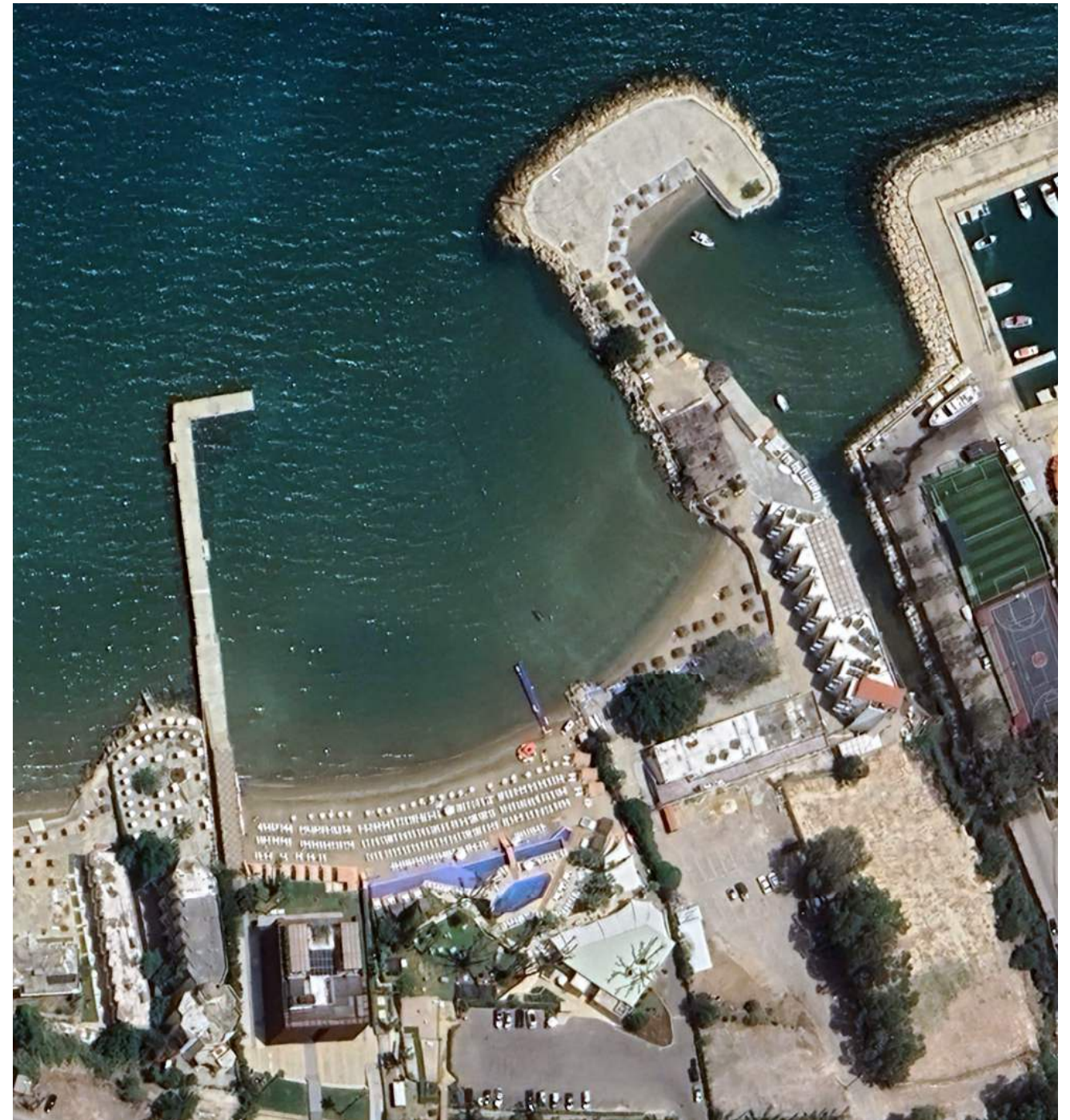
- Marina Master Plan
- Berthing capacity (28 yachts)
- Main Breakwater (Rubble mound type, L=113m @max - 3.50m, core material, rocky filter and armor layer)
- RC Crown walls
- Quaywalls (L=66m @-2.00m MSL) / Underwater concrete blocks (Gravity QW)
- Quaywalls (L=95m @-3.00m MSL) / Underwater concrete blocks (Gravity QW)
- Finger Pier (L=15m @-3.00m MSL, Nbr 1) / Underwater concrete blocks
- Marine accessories (Mooring bollards, fenders)
- RC and bituminous platforms

Ports / Marinas / Surveying / Permitting



Naoura Marina

- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master, restaurants, offices, shops (635m²)
- Bridges for pedestrian access
- Swimming area (Sandy beach)
- Reclaimed area (8,996m²)
- Water body (10,750m²)
- Topographic survey (8,200m²)
- Bathymetric survey (58,000m²)
- Specifications / Drawings / BoQ / Permitting



Ports / Marinas / Surveying / Permitting

GALATEA MARINA (1/2)

64

Client SAYFCO

Location LEBANON – Zouk Mosbeh
33°57'40" N
35°36'1" E

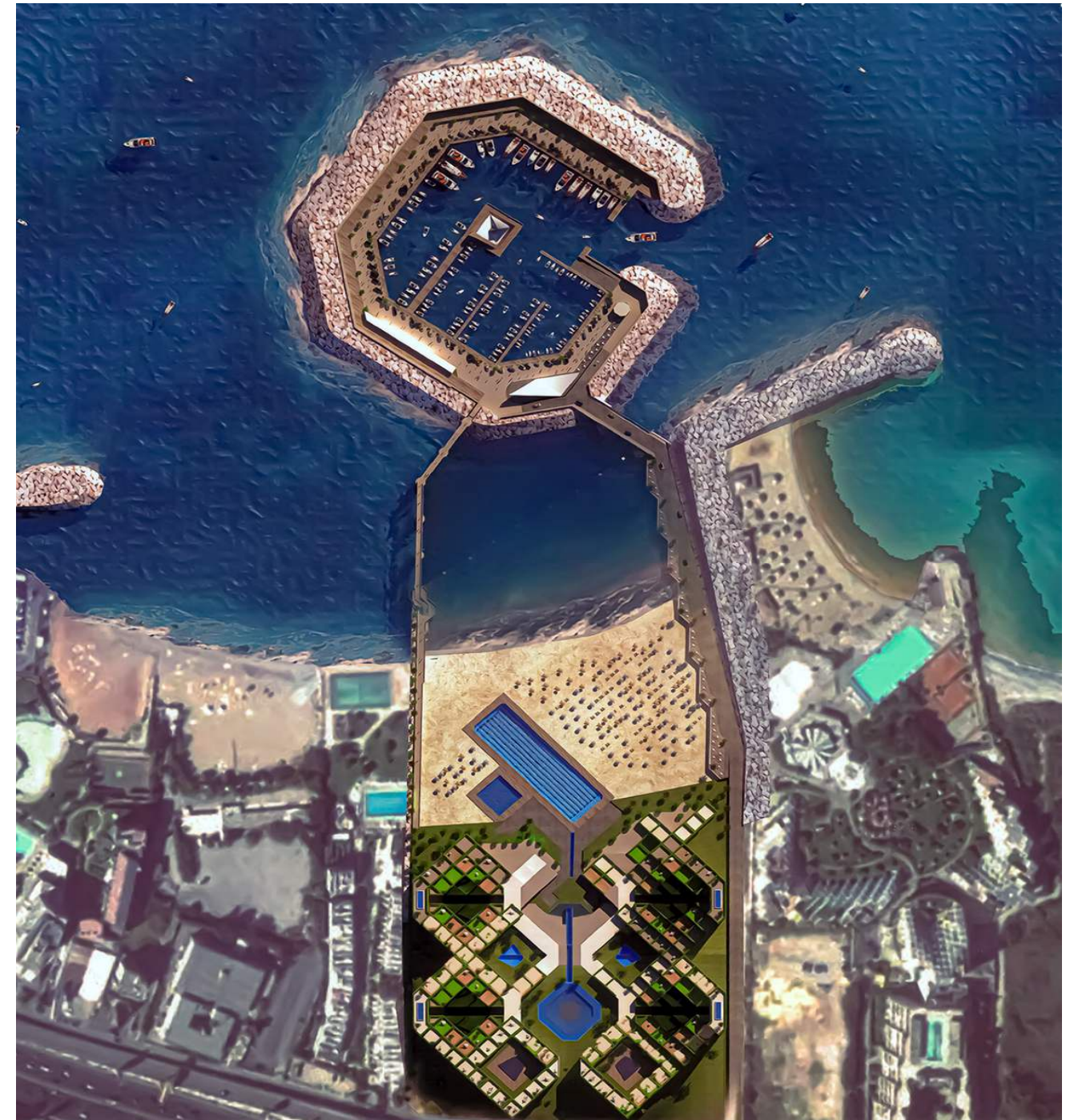
Consultant SEATEC sarl

Galatea Marina

Year 2013 – 2014
Design / Surveying / Permitting

- Marina Master Plan
- Berthing capacity (125 yachts)
- Main Breakwater (Rubble mound type, L=568m @max - 9.00m, core material, rocky filter and 16m³ concrete Accropodes blocks Type I)
- RC Crown walls
- Quaywalls (L=256m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=200m @-4.50m MSL) / Precast concrete blocks (Gravity QW)
- Finger Pier (L=182m @-3.00m MSL, Nbr 3) / Precast concrete elements
- Slipway (Boat ramp) Marina Master Plan

Ports / Marinas / Coastal Protections / Seawalls / Beaches / Lift Structures / Slipways / Surveying / Permitting



Galatea Marina

- Marine accessories (Mooring bollards, fenders)
- Land reclamation and bituminous / RC Platforms
- RC and bituminous platforms
- Pedestrian access bridge (L=138m)
- Car access bridge (L=30m)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master headquarter, restaurants, offices, shops (2,204m²)
- Fueling station
- Sandy beach stabilization (L=200m)
- Reclaimed area (60,281m²)
- Water body (27,289m²)
- Topographic survey (28,900m²)
- Bathymetric survey (377,400m²)
- Specifications / Drawings / BoQ / Permitting



Ports / Marinas / Coastal Protections / Seawalls / Beaches / Lift Structures / Slipways / Surveying / Permitting

Client SOGEPRIM sal

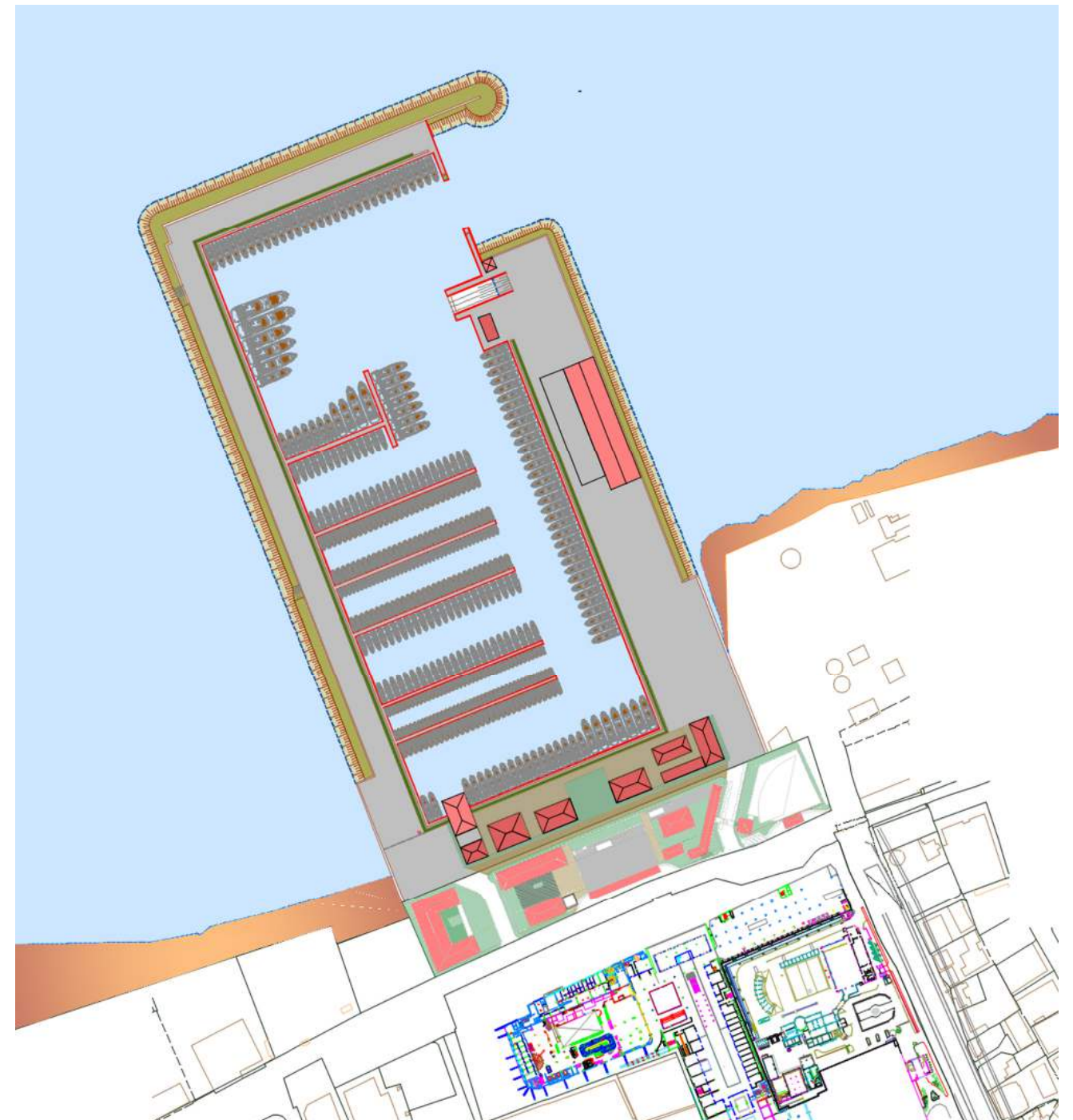
Location LEBANON – New Jdeideh
33°53'59" N
35°33'45" E

Consultant SEATEC sarl

City Marina

Year 2013 – 2014 – 2015
Design / Surveying / Permitting

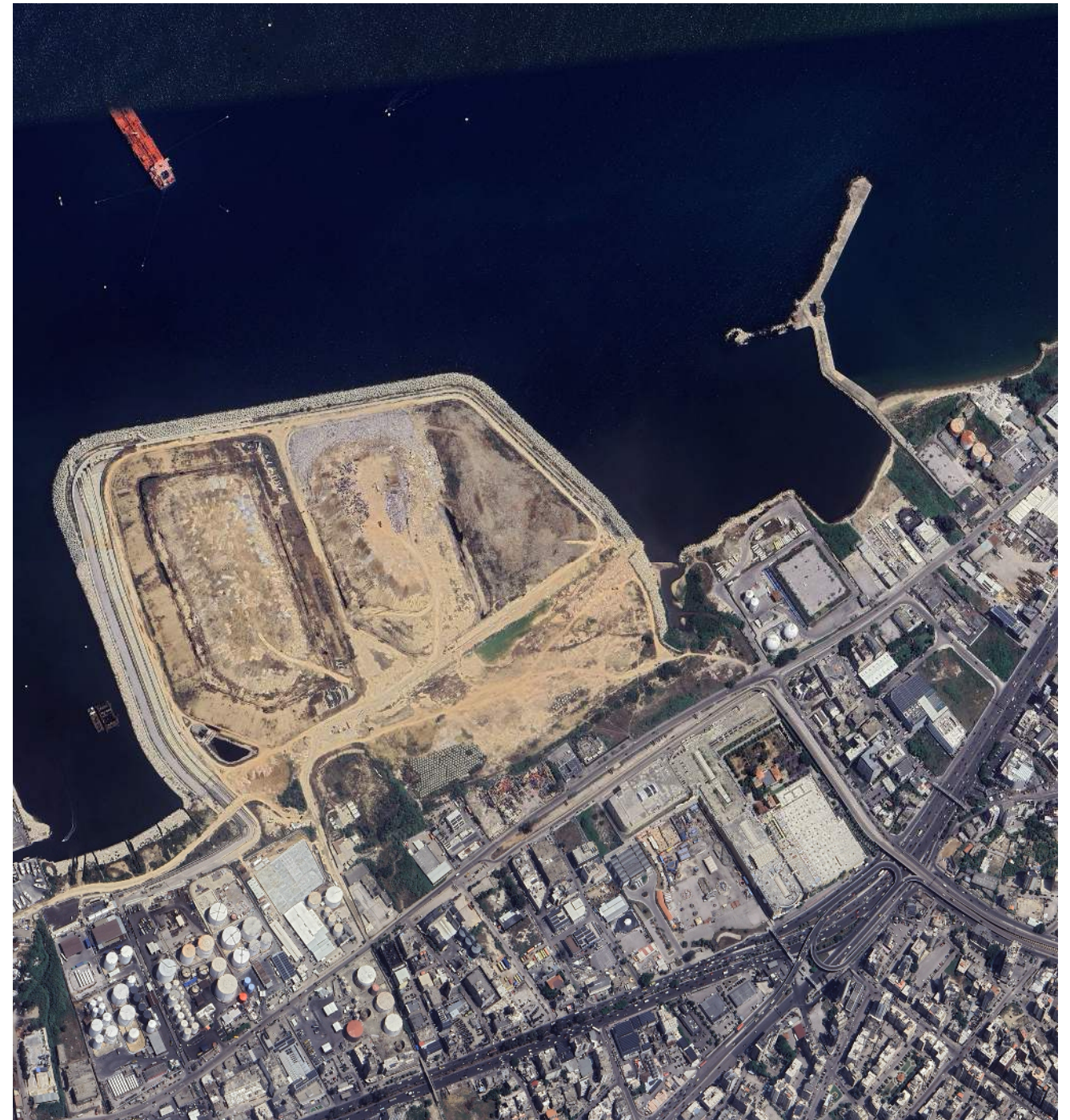
- Marina Master Plan
- Berthing capacity (450 yachts)
- Main Breakwater (Rubble mound type, L=830m @max - 8.50m, core material, rocky filter and 12m³ concrete Accropodes blocks Type I)
- RC Crown walls
- Quaywalls (L=219m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=587m @-4.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=400m @-5.00m MSL) / Precast concrete blocks (Gravity QW)



Ports / Marinas / Lift Structures / Slipways / Surveying / Permitting

City Marina

- Finger Piers (L=145m @-5.00m MSL, Nbr 2) / Precast concrete elements
- Slipway
- Marine accessories (Mooring bollards, fenders)
- RC and bituminous platforms
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master, restaurants, offices, shops (13,500m²)
- Fueling station
- Reclaimed area (82,390m²)
- Water body (97,800m²)
- Topographic survey (37,000m²)
- Bathymetric survey (612,000m²)
- Specifications / Drawings / BoQ / Permitting



Ports / Marinas / Lift Structures / Slipways / Surveying / Permitting

Client Owner Plot 236

Location LEBANON – Halat
34°5'7"N
35°38'57"E

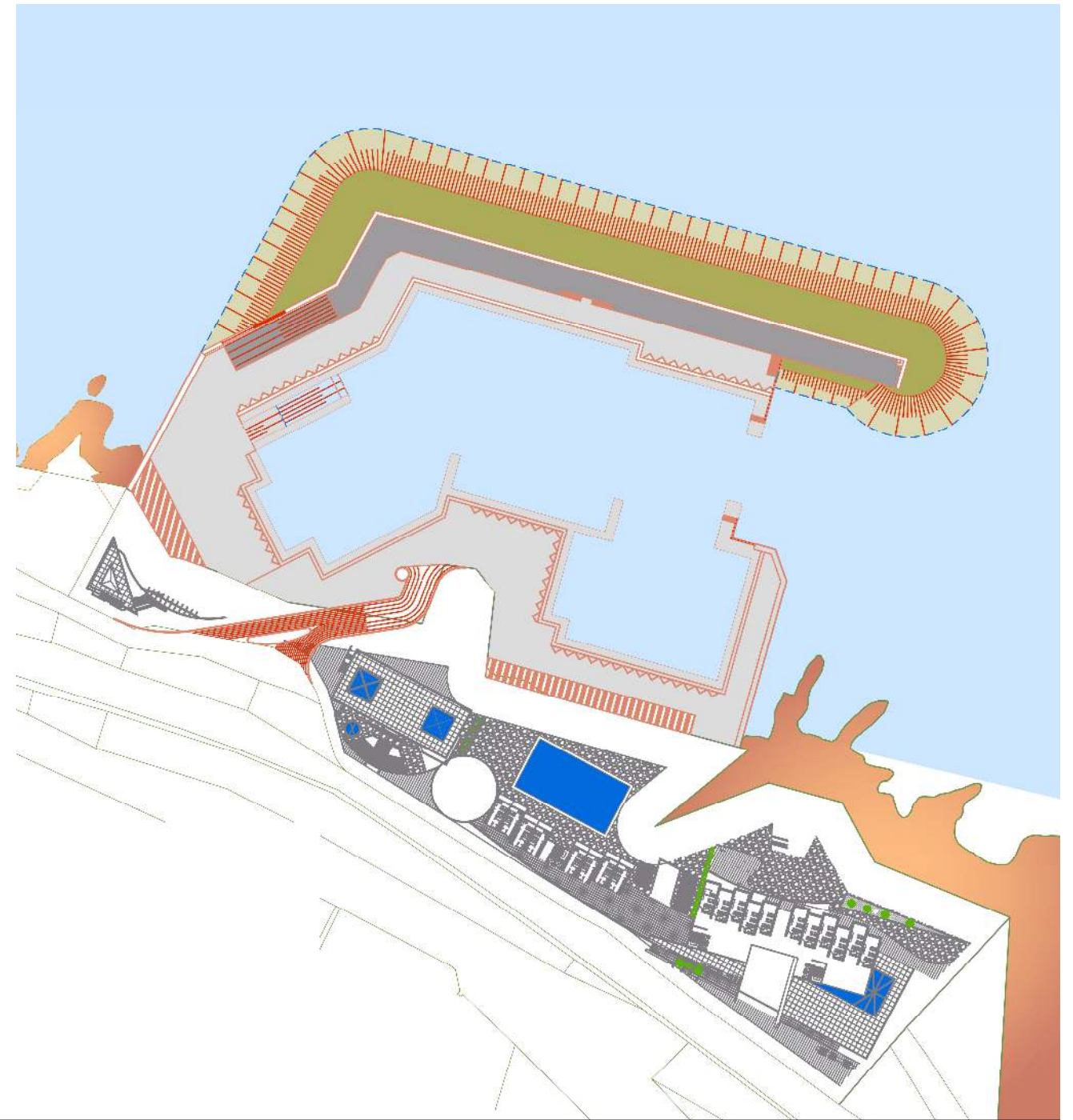
Consultant SEATEC sarl

Marina 236

Year 2013 – 2014
Design / Surveying / Permitting

- Marina layout
- Berthing capacity (99 yachts)
- Main Breakwater (Rubble mound type, L=198m @Max-7.00m, core material, rocky filter and 16m3 concrete Accropodes blocks Type I)
- RC Crown walls
- RC Seawall
- Quaywalls (L=355m @-3.00m MSL) / Underwater concrete (Gravity QW)
- Quaywalls (L=105m @-4.00m MSL) / Underwater concrete (Gravity QW)
- Marine accessories (Mooring bollards, fenders...)
- Land reclamation and bituminous / RC Platforms

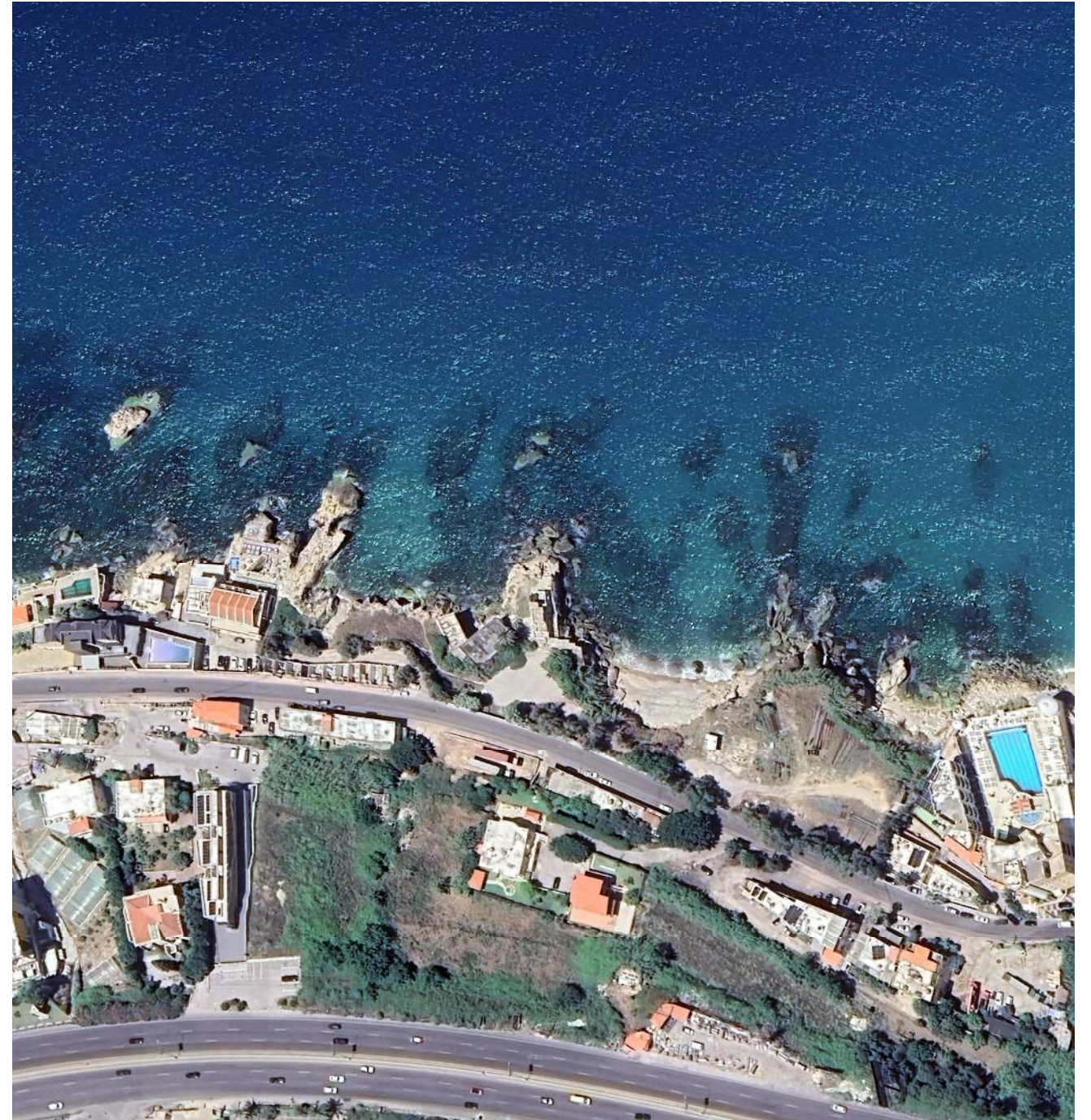
Ports / Marinas / Coastal Protections / Seawalls / Lift Structures / Slipways /
Surveying / Permitting



Marina 236

- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master, restaurants, offices, shops (960m²)
- Fueling station
- Reclaimed area (13,370m²)
- Water body (8,157m²)
- Topographic survey (10,700m²)
- Bathymetric survey (315,000m²)
- Specifications / Drawings / BoQ / Permitting

Ports / Marinas / Coastal Protections / Seawalls / Lift Structures / Slipways / Surveying / Permitting



JOUNIEH CRUISE PORT (1/3)

70

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Jounieh
33°59'02" N
35°36'49" E

Consultant SEATEC sarl

Jounieh Cruise Port

Year 2016
Design / Surveying / EIA

Cruise Port for post panamax ships (LOA~360m / 220,000DWT / 4000 passengers

- Port Master Plan
- Main Breakwater (Rubble mound type, L=2155m @max -24.00m, core material, rocky filter and 4,6,9 and 12m3 concrete Accropodes blocks Type II)
- Secondary Breakwater (Rubble mound type, L=400m @max -16.00m, core material, rocky filter and 4,6 and 9m3 concrete Accropodes blocks Type II)
- RC Crown walls

Ports / Surveying / Permitting / Cruise Terminals / **Marinas** / Enviro Studies / Lift Structures / Slipways / Hoists



JOUNIEH CRUISE PORT (2/3)

71

Jounieh Cruise Port

- Quaywall (L=550m @-12.00m MSL) / Precast concrete blocks (Gravity QW) for mega cruise ships
- Quaywall (L=440m @-12.00m MSL) / Precast concrete blocks (Gravity QW) for passenger ships

Western marina (342 berths)

- Quaywalls (L=902m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=236m @-5.50m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=675m @-3.00m MSL, Nbr 7) / Precast concrete elements

Eastern Marina (90 berths + 2 mega yachts berths 100m+)

- Quaywalls (L=812m @-5.50m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=228m @-7.00m MSL) / Precast concrete blocks (Gravity QW) for mega yachts (LOA~100m+)
- Finger Piers (L=145m @-5.50m MSL, Nbr 2) / Precast concrete elements

Port infrastructure

- Slipways (Nbr 2)
- Hoist / Boats lift

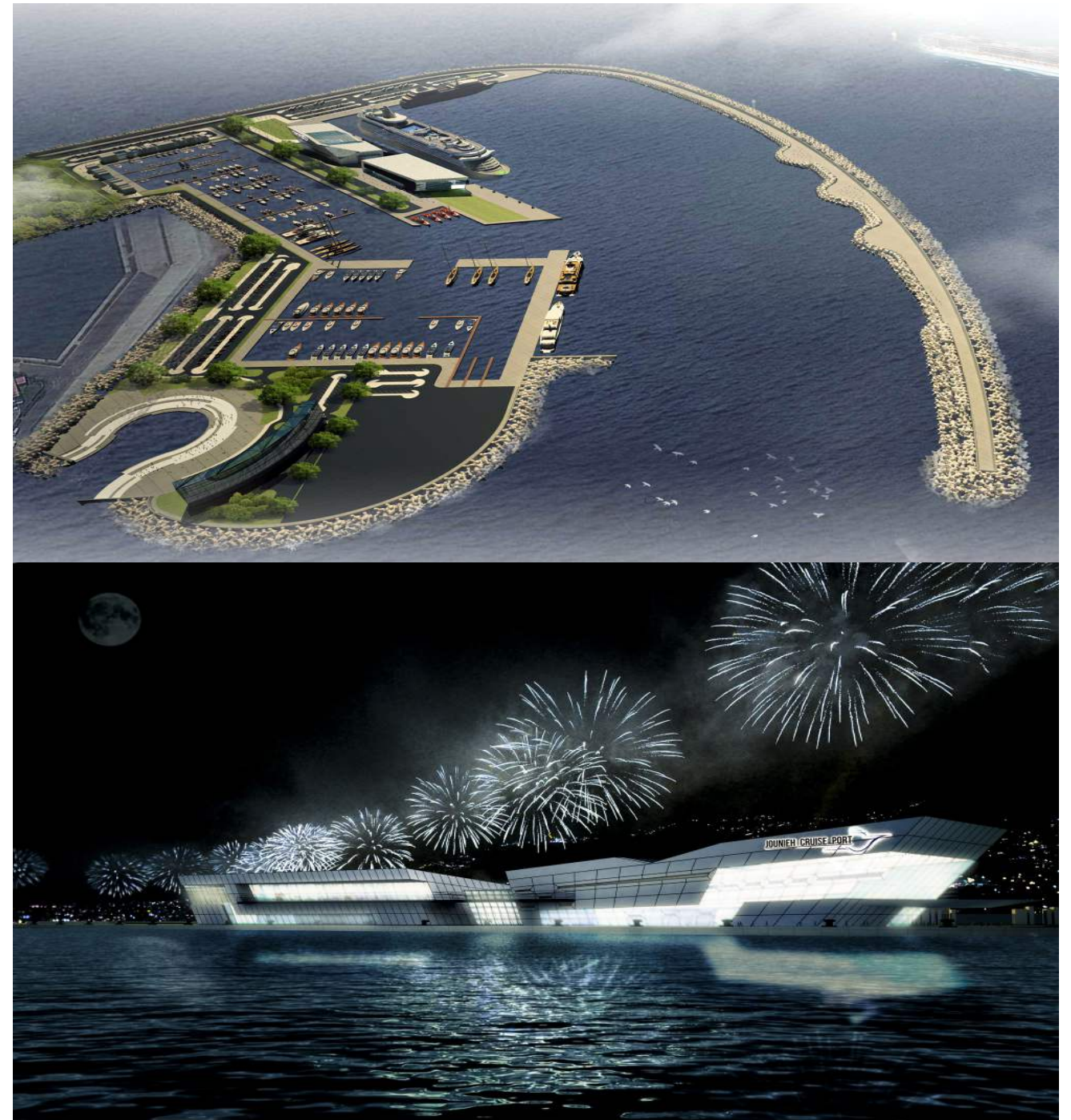
Ports / Surveying / Permitting / Cruise Terminals / **Marinas** / Enviro Studies / Lift Structures / Slipways / Hoists



Jounieh Cruise Port

- Marine accessories (Mooring bollards, fenders)
- Bituminous / RC Platforms (163,000m²)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Fueling station
- Bus and cars parking, internal roads
- Aids to Navigation (ATON / Buoys and day marks)
- Landscape
- Cruise Terminal (38,000m², 2 floors)
- Marina master, restaurants, offices, shops (13,500m²)
- Waste water treatment Plant
- Reclaimed area (421,150m²)
- Water body of the cruise port (469,820m²)
- Water body of Western marina (77,120m²)
- Water body of Eastern marina (43,000m²)
- Topographic survey (58,000m²)
- Bathymetric survey (7,000,000m²)
- Offshore / onshore geotechnical investigation
- 2D / 3D physical modeling
- Simulation of vessel navigation
- EIA and approval of the Ministry of Environment
- Specifications / Drawings / BoQ / Permitting / EIA

Ports / Surveying / Permitting / Cruise Terminals / **Marinas** / Enviro Studies / Lift Structures / Slipways / Hoists



DREDGING AT ATCL MARINA

73

Client Automobile Touring Club du Liban (ATCL)

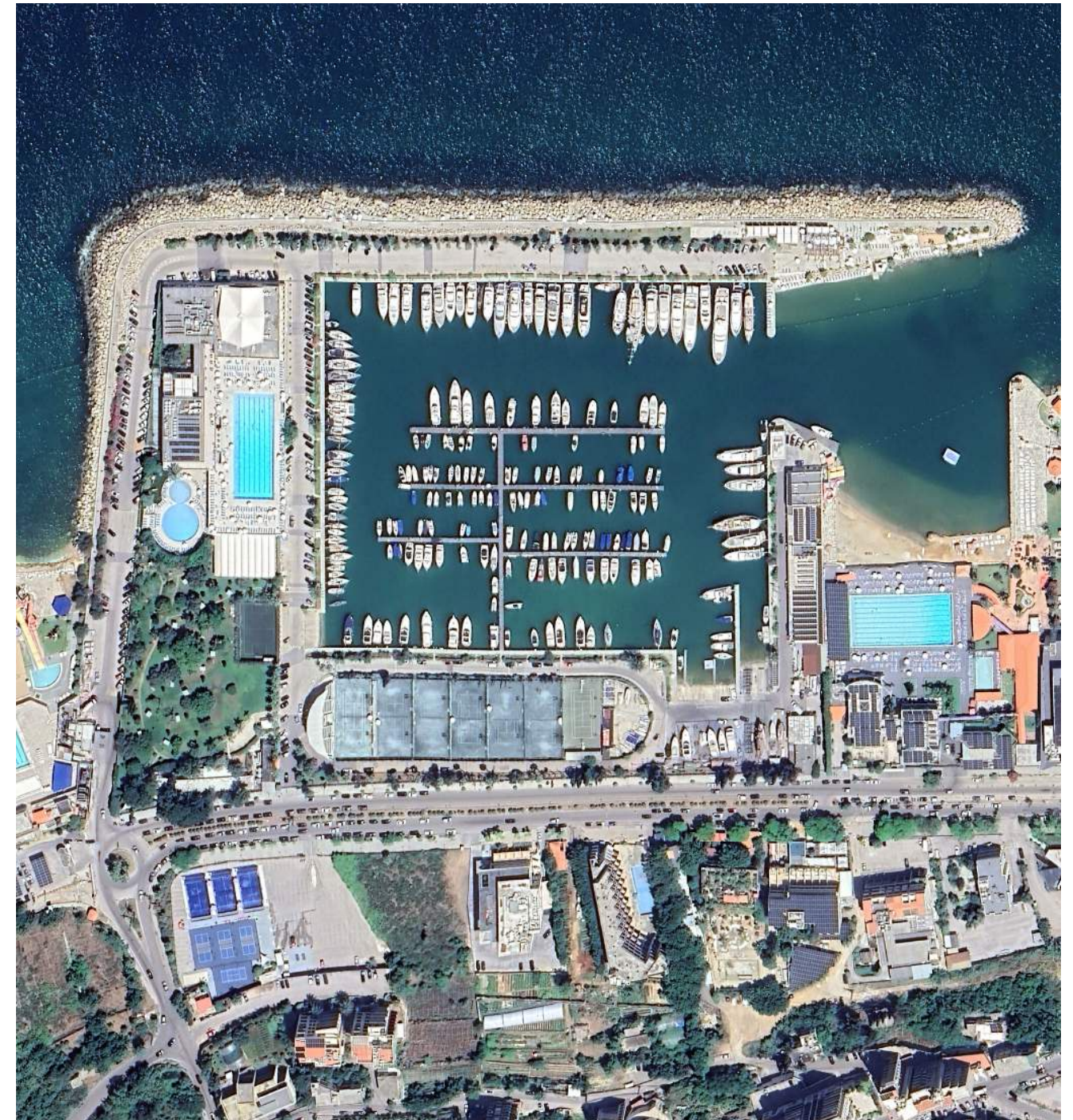
Location LEBANON – Kaslik
33°59'17" N
35°37'14" E

Consultant SEATEC sarl

Dredging at ATCL Marina

Year 2013
Design / Surveying

- Dredging Works at ATCL Marina entrance and access channel over (7,600m²) up to -4.50m MSL
- Topographic survey
- Bathymetric survey (8,000m²)
- Drawings / BoQ



Ports / Marinas / Dredging / Surveying

LE PECHE RESTAURANT SEAWALL

74

Client Le Pêche Restaurant

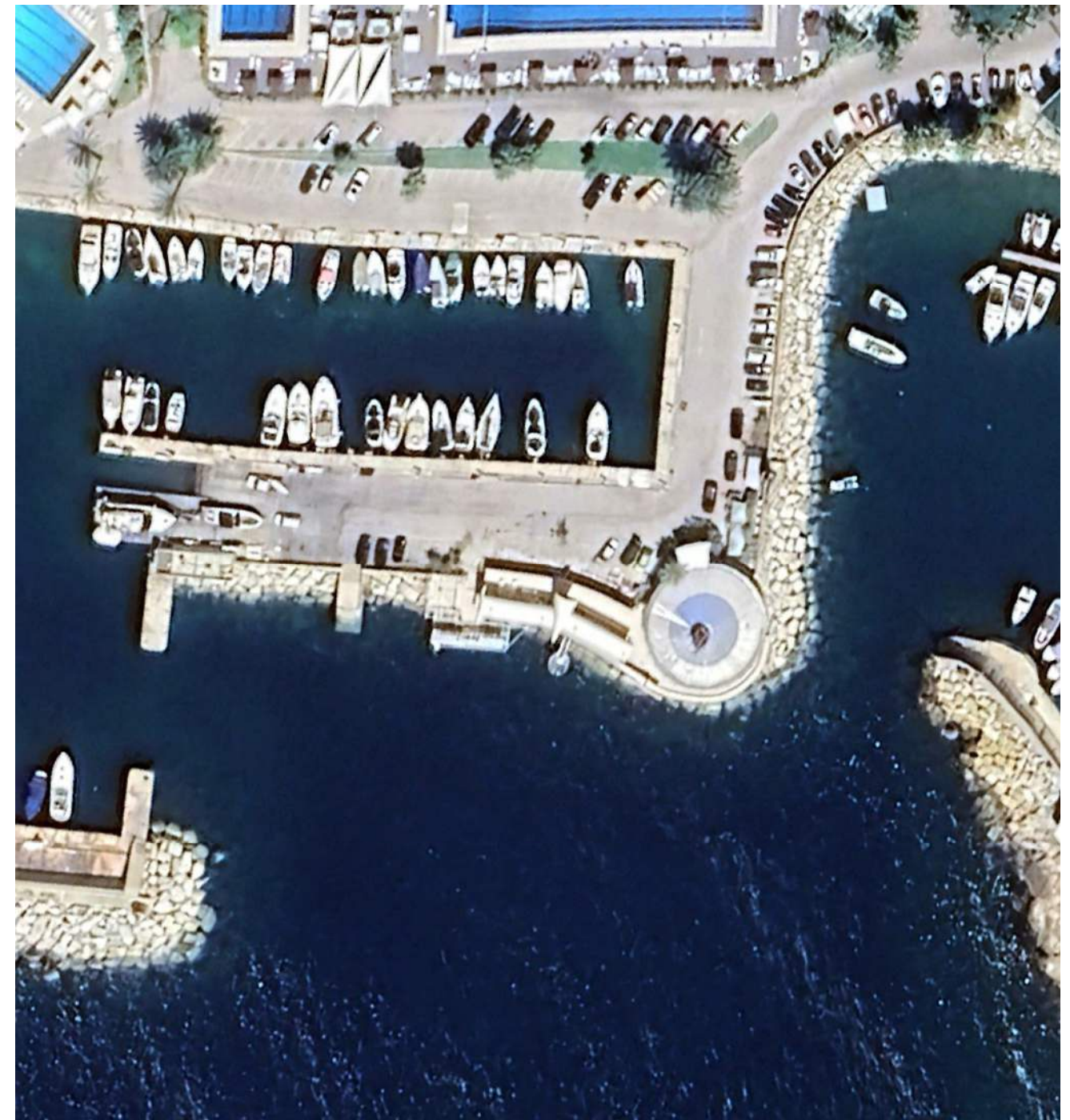
Location LEBANON – Tabarja
34°0'53" N
35°37'57" E

Consultant SEATEC sarl

Le Pêche Restaurant seawall

Year 2012
Design

- RC curved seawall (L=25.00m) to reduce waves overtopping discharges and to protect existing restaurant from potential damages by winter waves
- Specifications / Drawings / BoQ



Ports / Marinas / Coastal Protections / Seawalls

DREDGING AT HOLIDAY BEACH MARINA - 2

75

Client Holiday Beach
Location LEBANON – Nahr el Kaleb
33°57'30" N
35°35'50" E
Consultant SEATEC sarl

Dredging at Holiday Beach Marina - 2

Year 2012
Design / Surveying

- Dredging Works of Holiday Beach Marina internal basins and access channel
- Topographic survey
- Bathymetric survey (4,600m²)
- Drawings / BoQ



Ports / Marinas / Dredging / Surveying

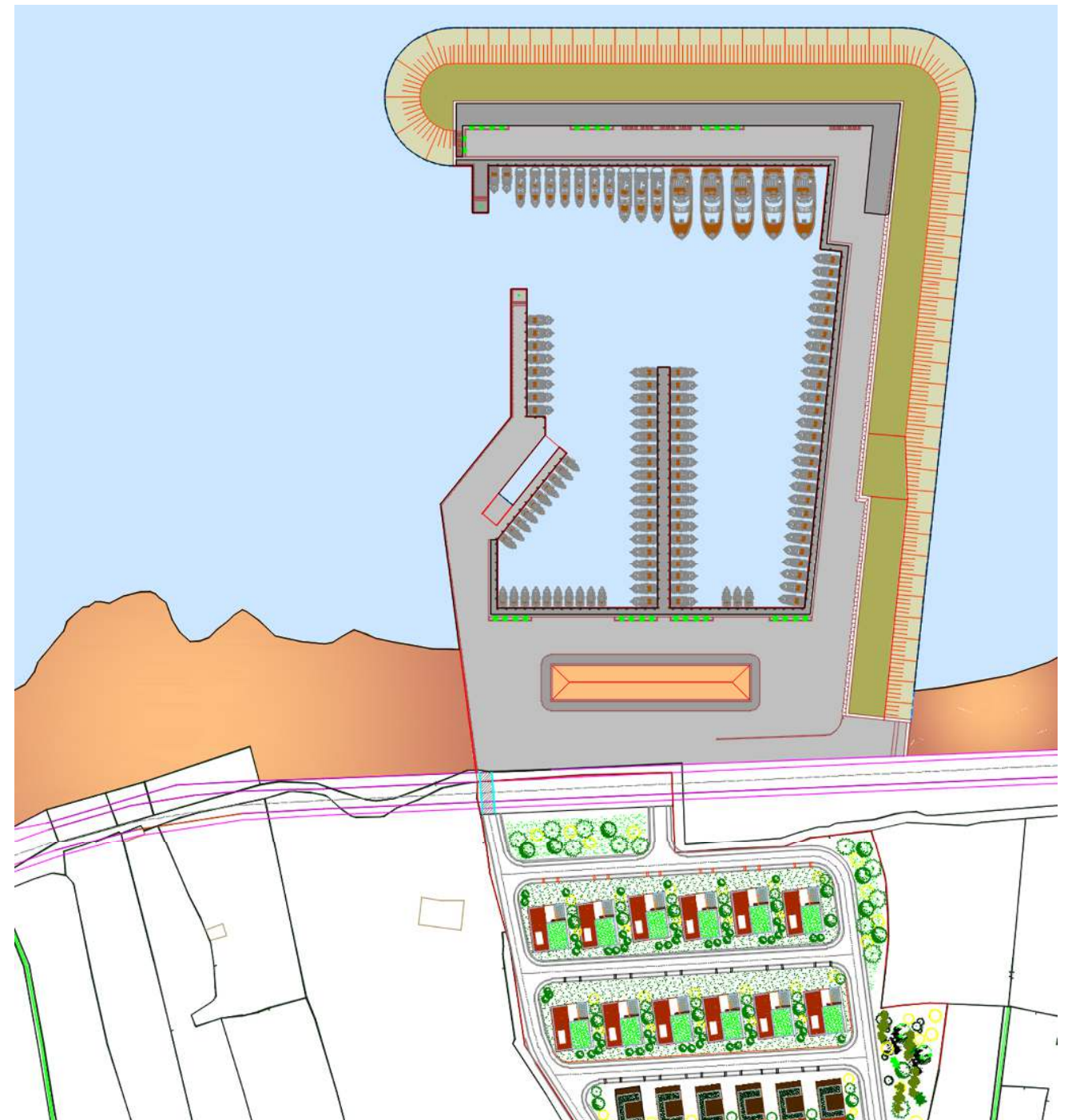
Client Owner Plot 402
Location LEBANON – Amchit
34°8'21" N
35°37'54" E
Consultant SEATEC sarl

Marina 402

Year 2011 – 2012 – 2013
Design / Surveying / Permitting

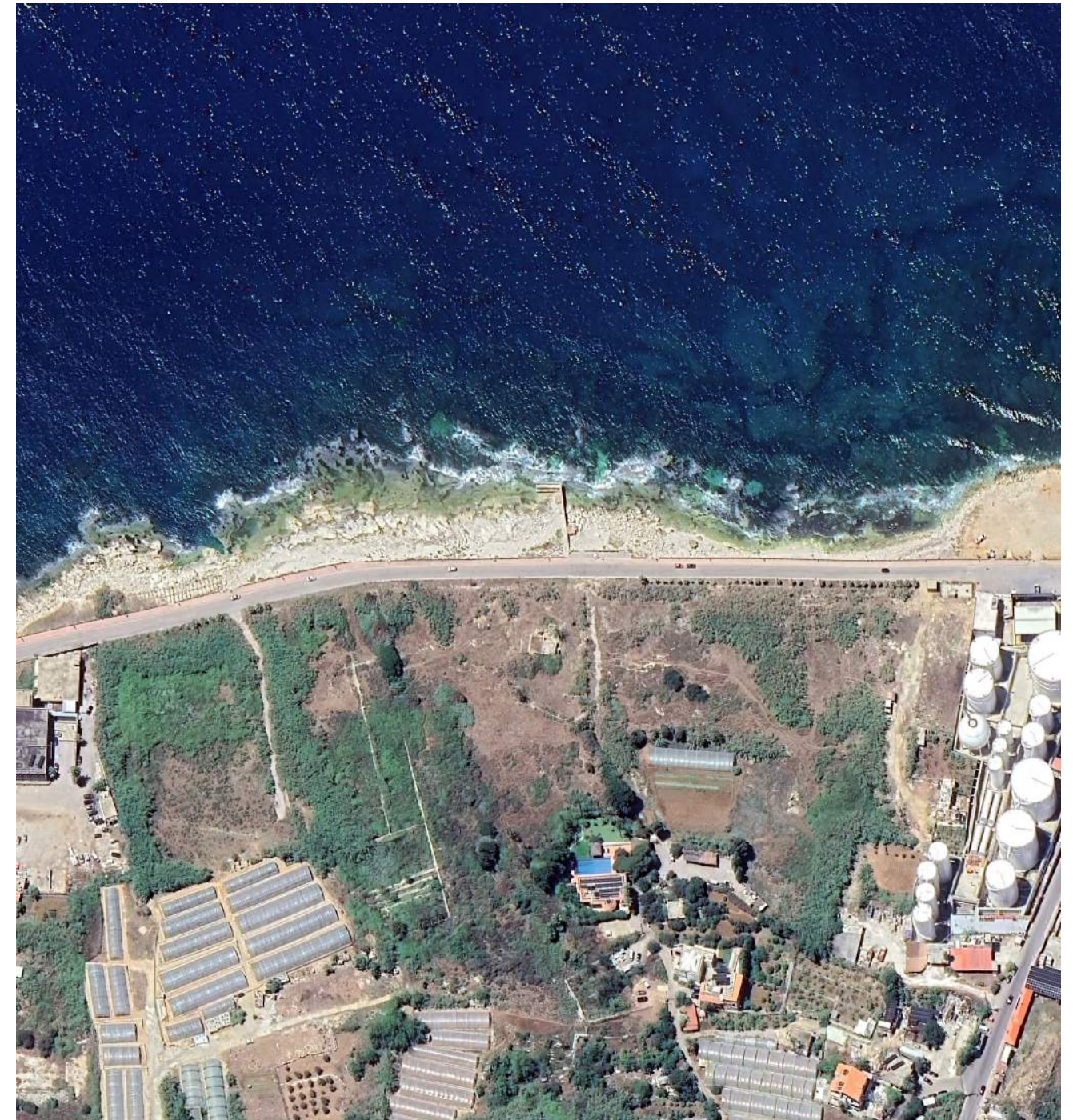
- Marina Master Plan
- Berthing capacity (114 yachts)
- Main Breakwater (Rubble mound type, L=345m @max - 15.00m, core material, rocky filter and 18m3 concrete Accropodes blocks Type I for armor layer)
- RC Crown walls
- Quaywalls (L=321m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=136m @-4.00m MSL) / Precast concrete blocks (Gravity QW)
- Marine accessories (Mooring bollards, fenders)
- Land reclamation and bituminous / RC Platforms

Ports / Marinas / Lift Structures / Slipways / Surveying / Permitting



Marina 402

- Slipway (Boat ramp)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master headquarter, restaurants, offices, shops (780m²)
- Fueling station
- Reclaimed area (22,279m²)
- Water body (14,097m²)
- Dredging works for basin, quaywalls foundations and breakwater toe
- Topographic survey (13,000m²)
- Bathymetric survey (42,500m²)
- Tender Documents / Specifications / Drawings / BoQ / Permitting



Ports / Marinas / Lift Structures / Slipways / Surveying / Permitting

Client Owner Plots 380 – 381 – 382 – 383 – 413

Location LEBANON – Amchit
34°8'18" N
35°37'58" E

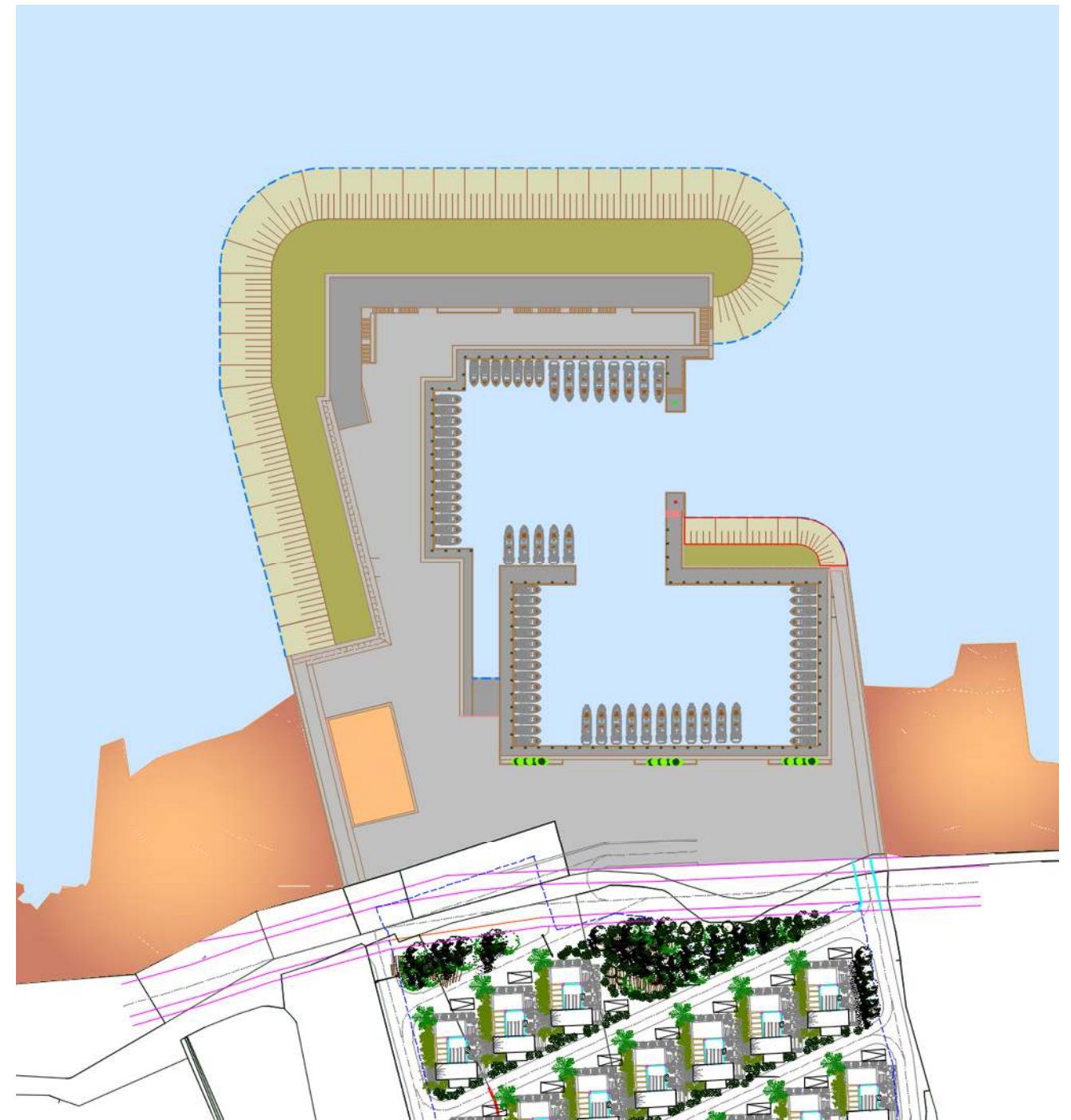
Consultant SEATEC sarl

Marina 383

Year 2010 – 2011
Design / Surveying / Permitting

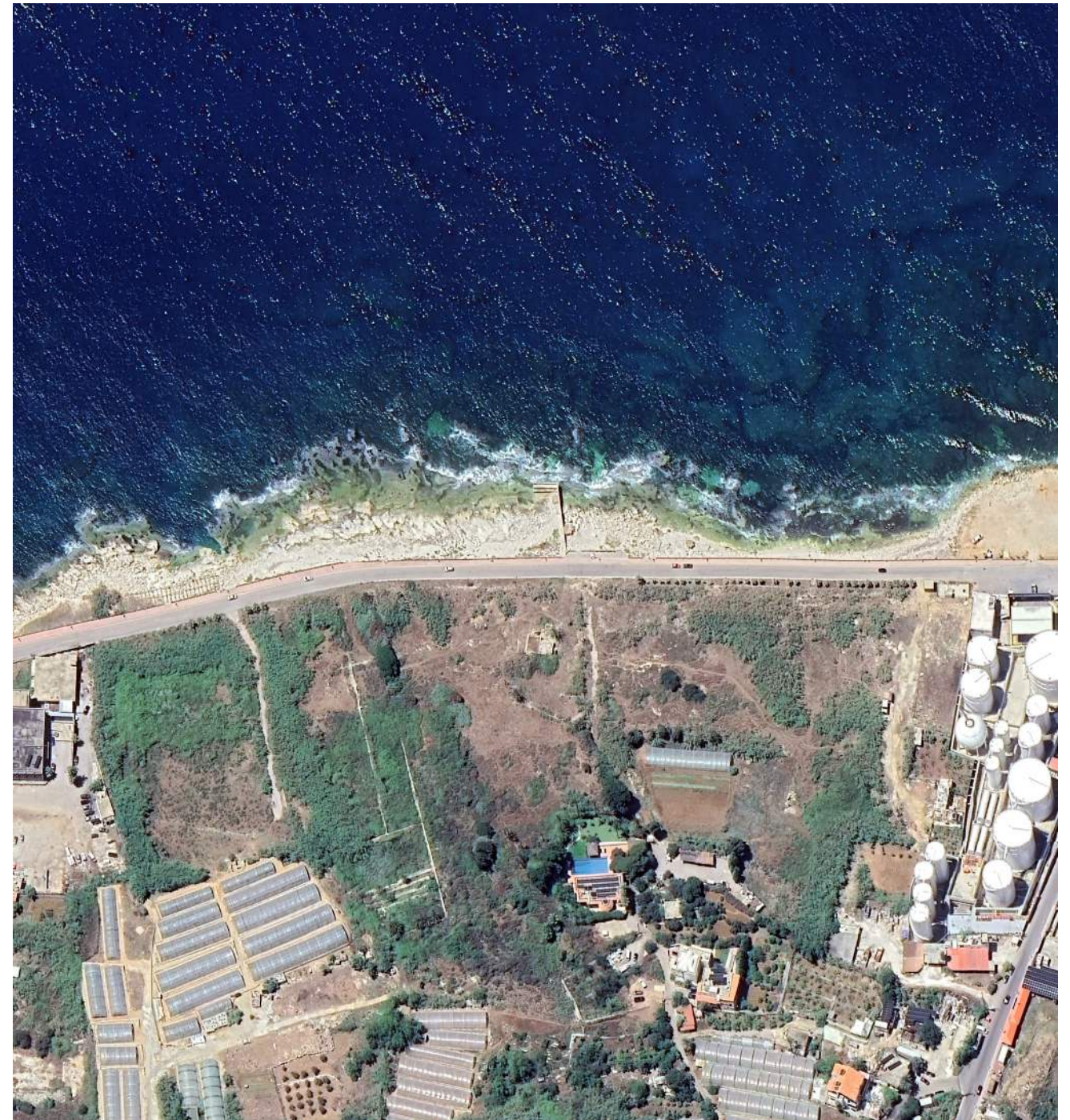
- Marina layout
- Berthing capacity (65 yachts)
- Main Breakwater (Rubble mound type, L=168m @max - 13.00m, core material, rocky filter and 18m3 concrete Accropodes blocks Type 1 for armor layer)
- RC Crown walls
- Quaywalls (L=212m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=93m @-4.00m MSL) / Precast concrete blocks (Gravity QW)
- Marine accessories (Mooring bollards, fenders)
- Land reclamation and bituminous / RC Platforms

Ports / Marinas / Lift Structures / Slipways / Surveying / Permitting



Marina 383

- Slipway (Boat ramp / L=29.50m)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master headquarter, restaurants, offices, shops (375m²)
- Fueling station
- Reclaimed area (13,280m²)
- Water body (6,347m²)
- Dredging works for basin, quaywalls foundations and breakwater toe
- Topographic survey (12,800m²)
- Bathymetric survey (41,500m²)
- Tender Documents / Specifications / Drawings / BoQ / Permitting



Ports / Marinas / Lift Structures / Slipways / Surveying / Permitting

COASTAL PROTECTION PLOTS 69 – 70 – 157 – 810

80

Client Owner Plots 69 – 70 – 157 – 810

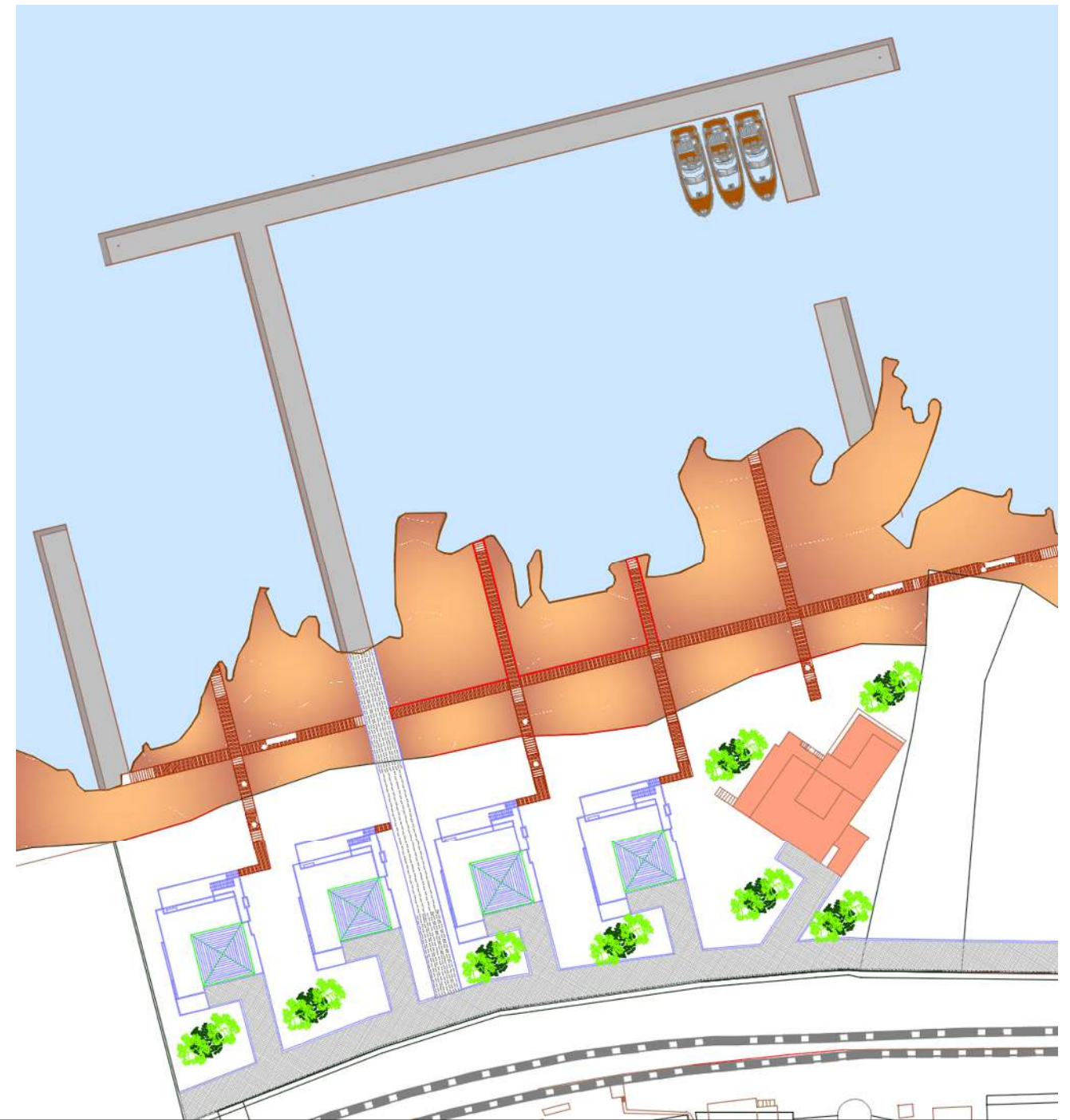
Location LEBANON – Nahr Ibrahim
34°4'5" N
35°38'30" E

Consultant SEATEC sarl

Coastal protection for Plots 69 – 70 – 157 – 810

Year 2010 – 2011 – 2016 – 2017
Design / Permitting

- Coastal protection / beach Master Plan
- Seasonal berth (3 yachts)
- Main Breakwater (Concrete vertical breakwater L=230m @max -2.50m, Underwater concrete / capping beam and seawall)
- Quaywalls (L=93m @-2.00m MSL) / Underwater concrete (Gravity QW)
- Conservation of natural rocky beach
- Wooden pathways on beach
- Water body (11,938m²)
- Drawings / BoQ / Permitting



Ports / Marinas / Coastal Protections / Seawalls / Permitting

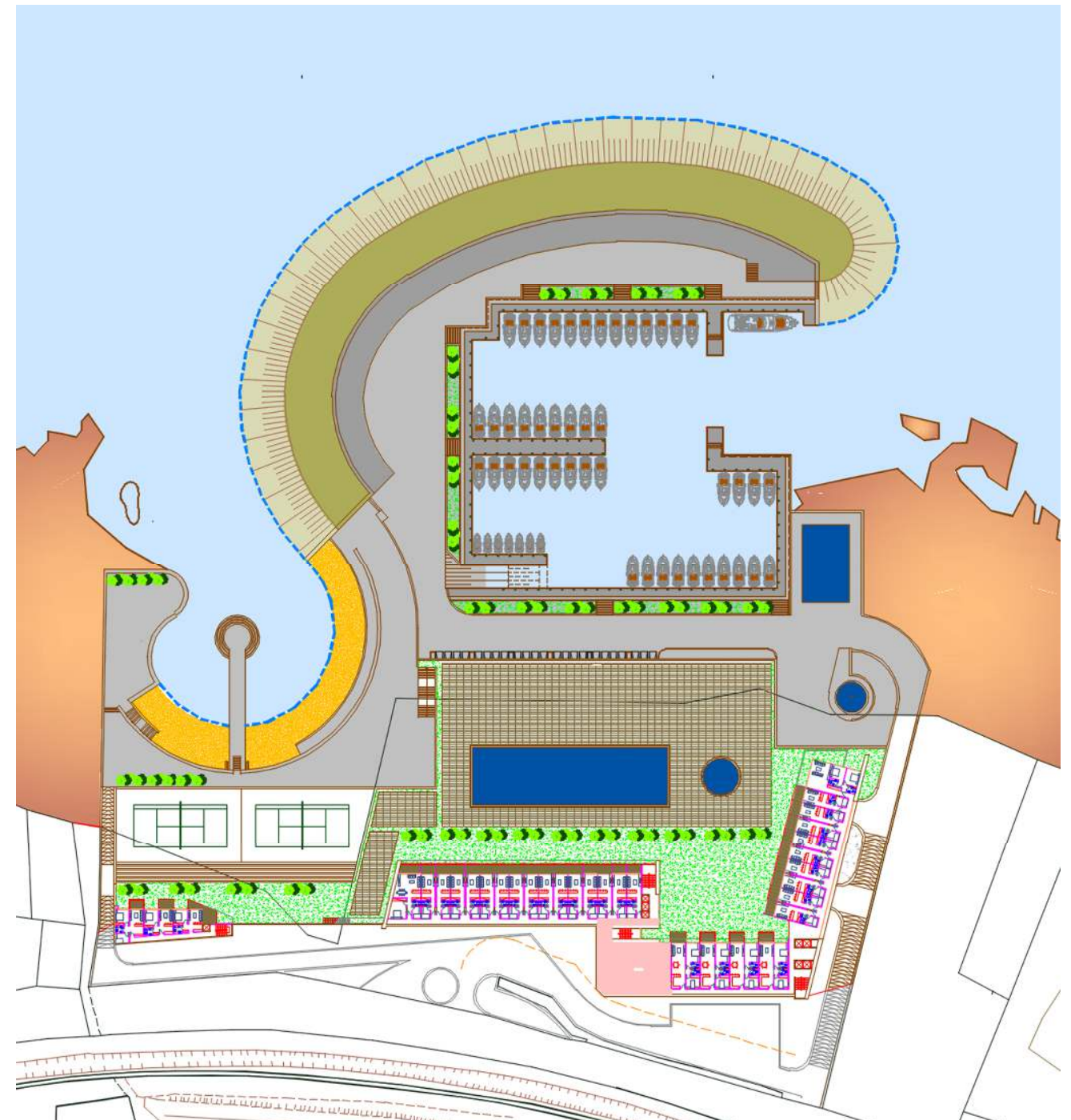
Client Owner Plot 202
Location LEBANON – Safra
34°2'11" N
35°37'29" E
Consultant SEATEC sarl

Safra Marina

Year 2010
Design / Surveying / Permitting

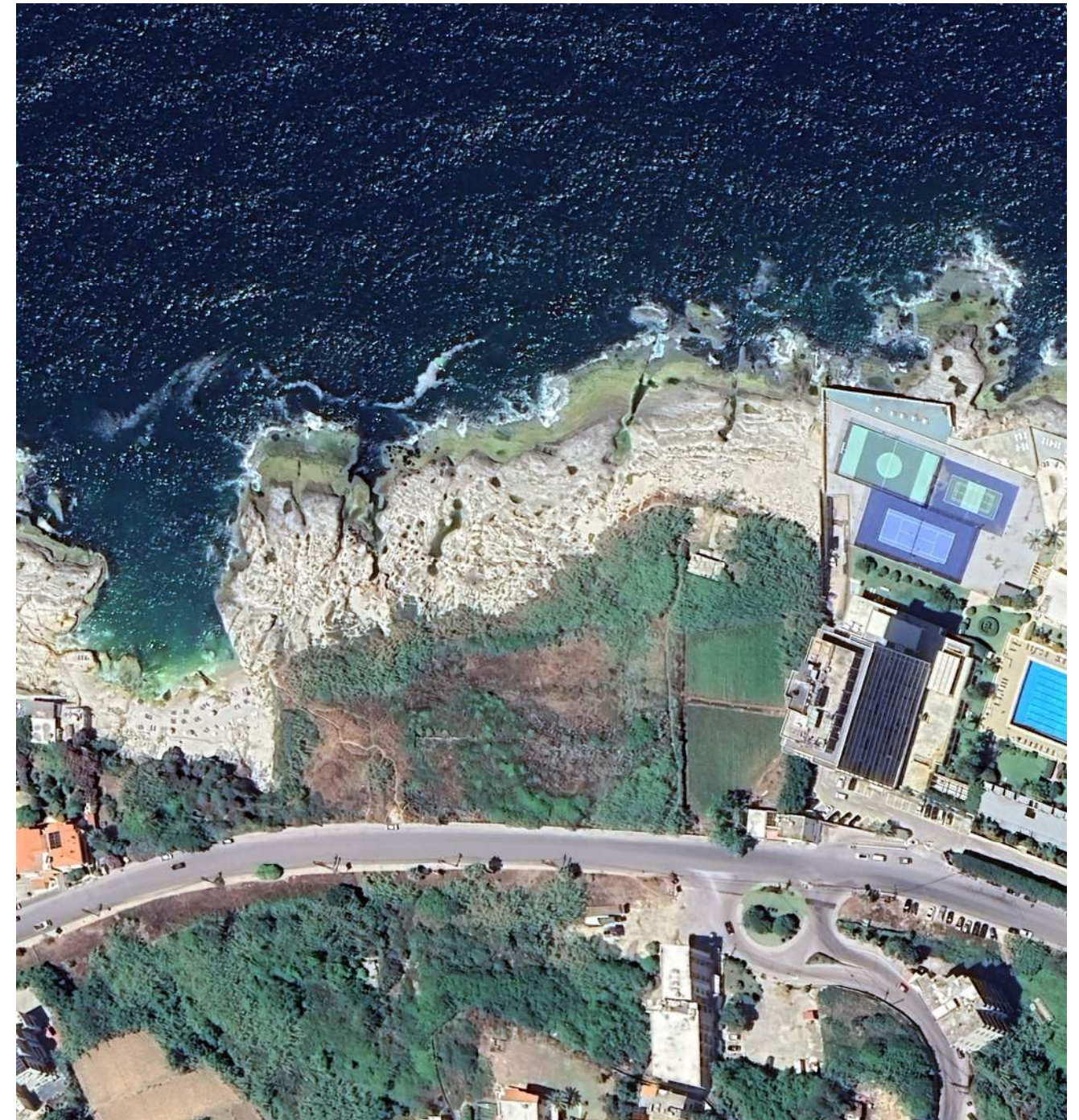
- Marina Master Plan
- Berthing capacity (75 yachts)
- Main Breakwater (Rubble mound type, L=208m @max - 11.00m, core material, rocky filter and 16m3 concrete Accropodes blocks Type I)
- RC Crown walls
- Quaywalls (L=190m @-4.00m MSL) / Underwater concrete (Gravity QW)
- Quaywalls (L=53m @-5.00m MSL) / Underwater concrete (Gravity QW)
- Finger Pier (L=34m @-4.00m MSL, Nbr 1) / Underwater concrete blocks
- Marine accessories (Mooring bollards, fenders)
- Land reclamation and bituminous / RC Platforms
- Swimming area (1,680m2)

Ports / Marinas / Lift Structures / Slipways / Surveying / Permitting



Safra Marina

- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marina master headquarter, restaurants, offices, shops (1,287m²)
- Fueling station
- Reclaimed area (19,658m²)
- Water body (6,122m²)
- Topographic survey (12,000m²)
- Bathymetric survey (85,000m²)
- Specifications / Drawings / BoQ / Permitting



Ports / Marinas / Lift Structures / Slipways / Surveying / Permitting

DREDGING AT FLORIDA BEACH MARINA - 2

83

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Hery
34°18'22" N
35°42'24" E

Consultant SEATEC sarl

Dredging at Florida Beach Marina – 2

Year 2010
Design / Surveying

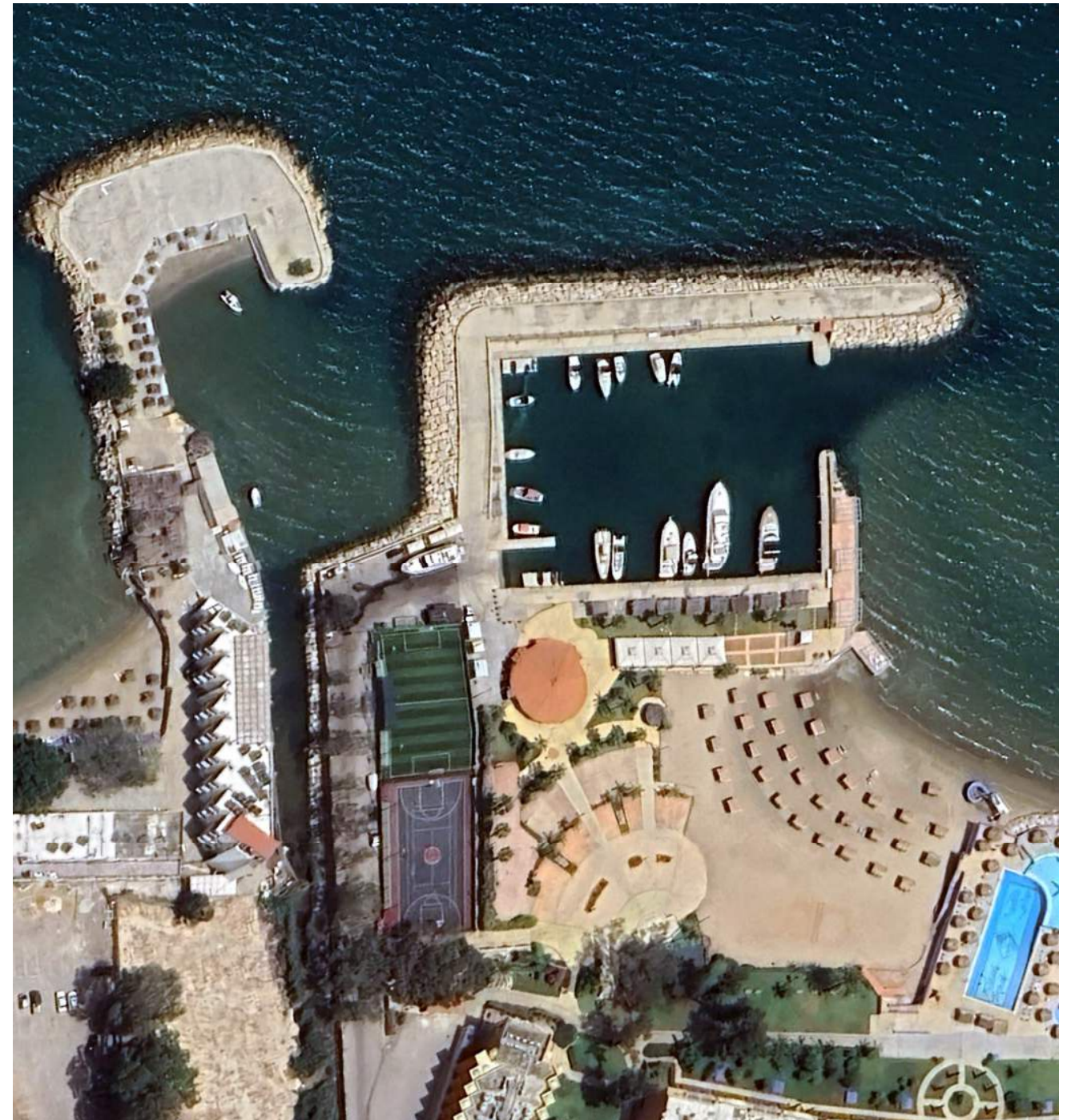
- Dredging works of Marina basin, entrance and over (35,000m²) outside the Marina, up to -6.00m MSL max
- Topographic survey
- Bathymetric survey (39,500m²)
- Tender Documents / Specifications / Drawings / BoQ

Year 2010
Works Supervision

- Contractor : Khoury Contracting Company (KCC)
- Duration : 6 months

Note: Works execution was canceled by the Client

Ports / Marinas / Dredging / Surveying



AFAMIA MARINA

84

Client MARCONTRACTING

Location SYRIA – Lattakia
35°32'44" N
35°45'12" E

Consultant SEATEC sarl

Afamia Marina

Year 2009
Design

- Extension of the existing main breakwater (Rubble mound type, L=82.00m @max -11.00m) with precast concrete Accropodes blocks Type I (Armor layer)
- New quaywall at entrance (L=100m @-5.00m) for super yachts
- Drawings / BoQ

Ports / Marinas



DREDGING AT FLORIDA BEACH MARINA - 1

85

Client FLORIDA BEACH Resort

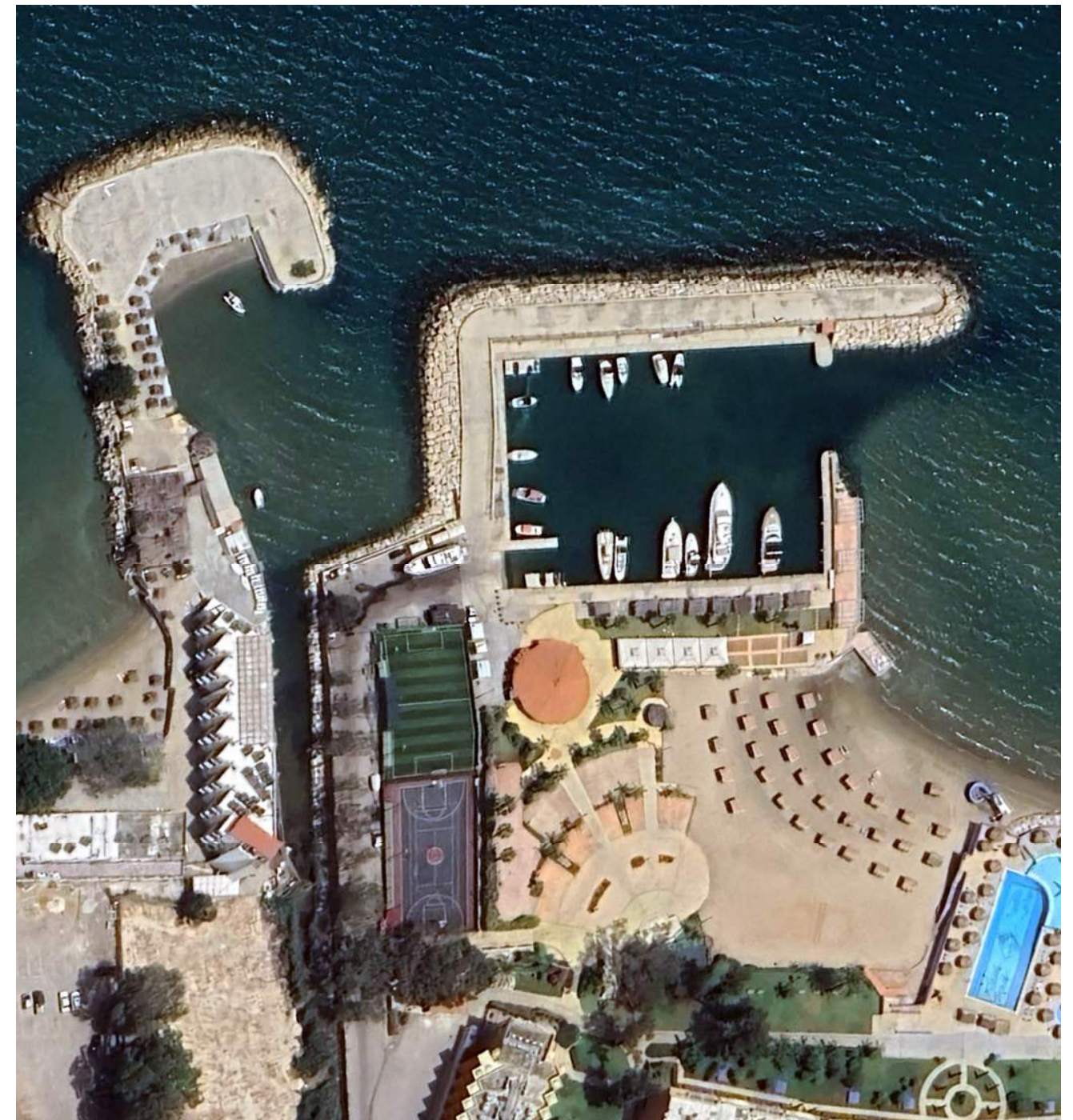
Location LEBANON – Hery
34°18'22" N
35°42'24" E

Consultant SEATEC sarl

Dredging at Florida Beach Marina – 1

Year 2009
Design / Surveying

- Dredging works of Port basin and entrance up to -3.00m MSL
- Topographic survey
- Bathymetric survey (15,000m²)
- Specifications / Drawings / BoQ



Ports / Marinas / Dredging / Surveying

DREDGING AT HOLIDAY BEACH MARINA - 1

86

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

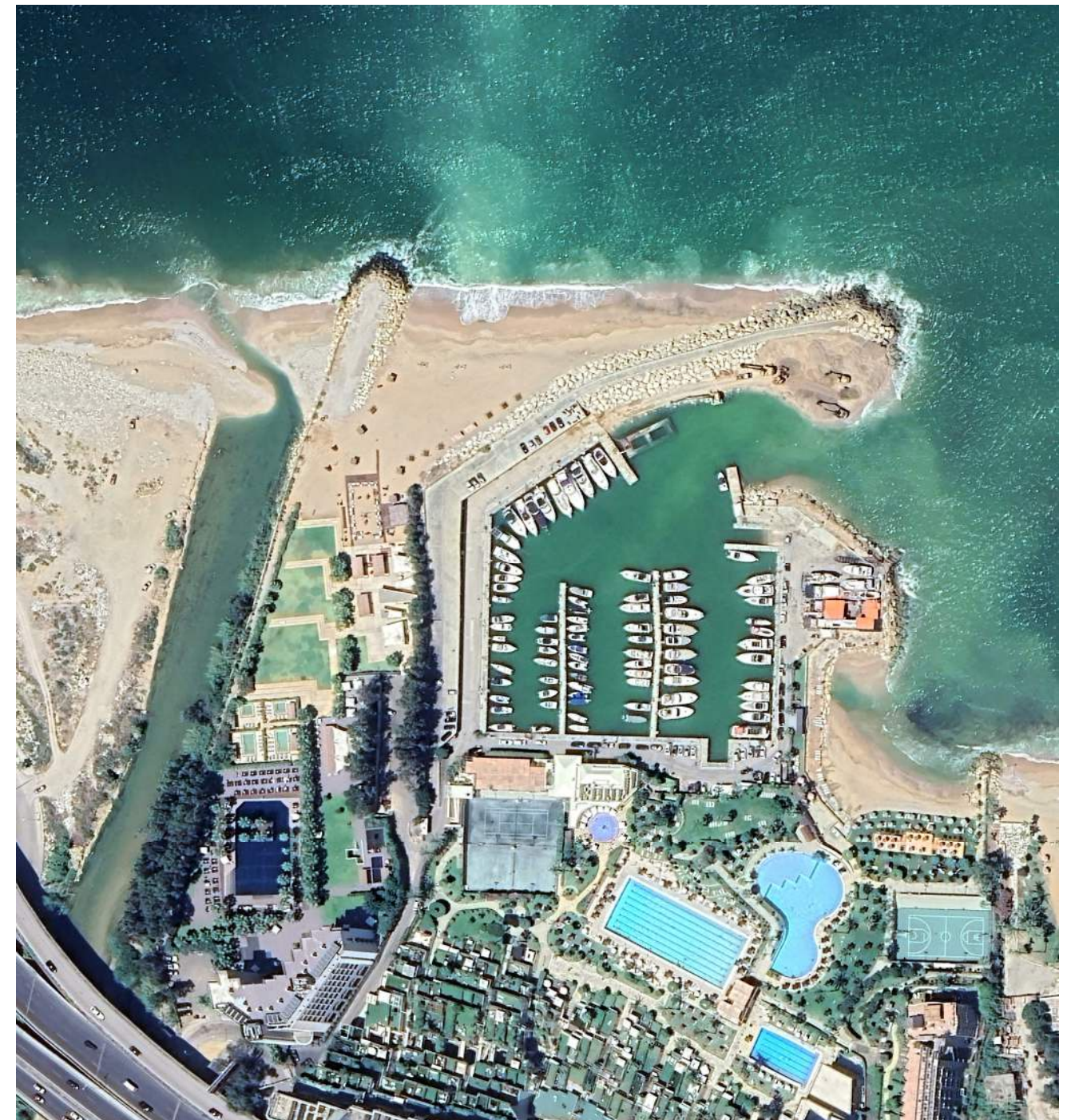
Location LEBANON – Nahr el Kalb
33°57'27" N
35°35'45" E

Consultant SEATEC sarl

Dredging at Holiday Beach Marina - 1

Year 2009
Design / Surveying

- Dredging works of Holiday Beach Marina basin and Nahr el Kalb river mouth up to -2.00, -3.00, -3.50, -4.00 and -5.00m MSL
- Topographic survey (20,500m²)
- Bathymetric survey (145,000m²)
- Tender Documents / Specifications / Drawings / BoQ



Ports / Marinas / Dredging / Surveying

WATERFRONT 2355 – 2356

87

Client Owner Plots 2355 - 2356

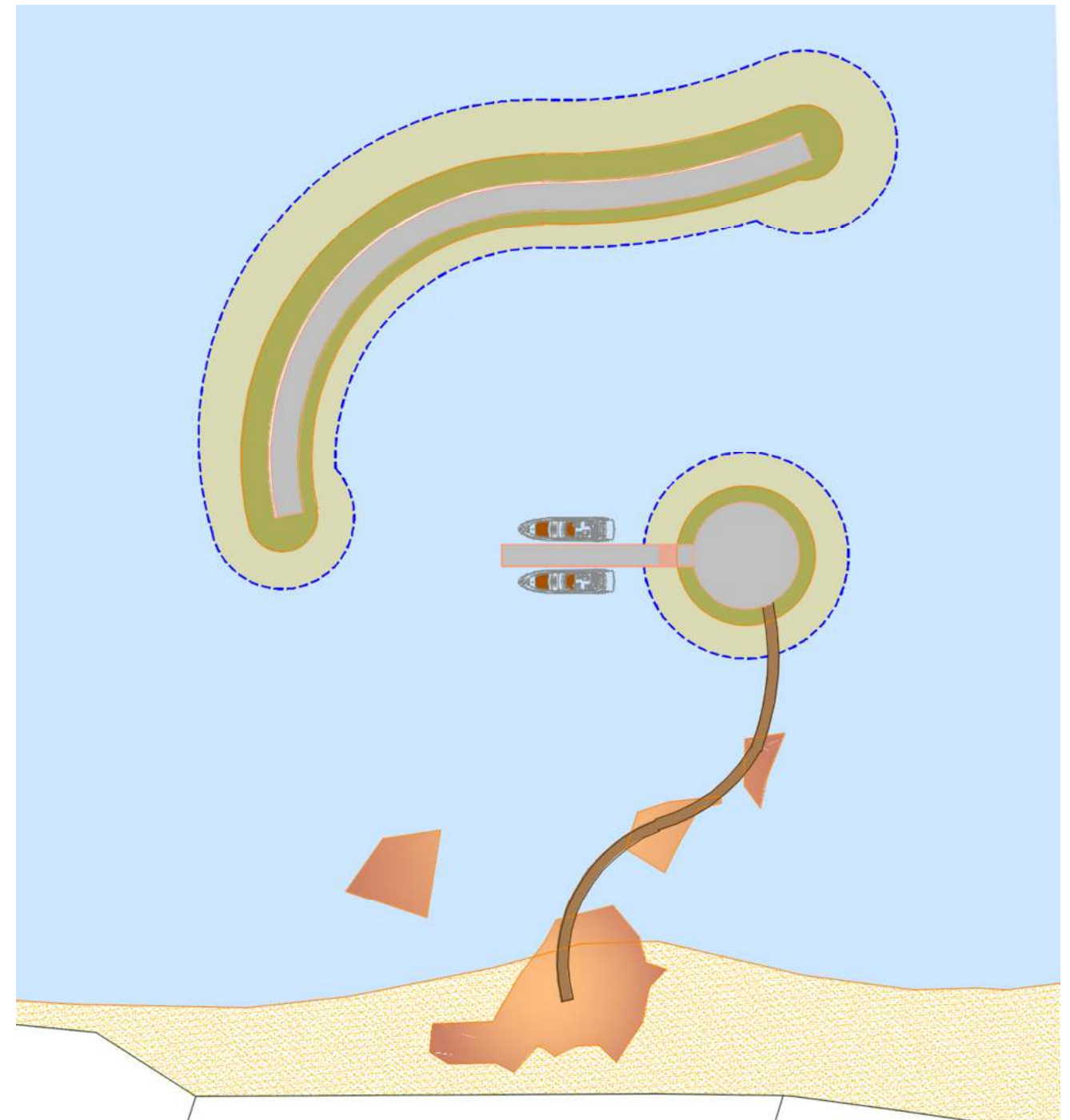
Location LEBANON – Jiyeh
33°39'25" N
35°24'59" E

Consultant SEATEC sarl

Waterfront 2355 - 2356

Year 2008
Conceptual Design / Surveying

- Seasonal yachts berths (Nbr 2)
- Detached Main Breakwater (L=160m) @max -4.50m
- Quaywalls (L=42m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- RC platform
- Wooden walkway
- Topographic survey
- Bathymetric survey (34,000m²)
- Drawings / BoQ



Ports / Marinas / Surveying

C11 ISLAND (THE WORLD)

88

Client DEP Consultants

Location UAE – Dubai
25°12'20" N
55°9'59" E

Consultant SEATEC sarl

C11 Island (The World)

Year 2008
Conceptual Design

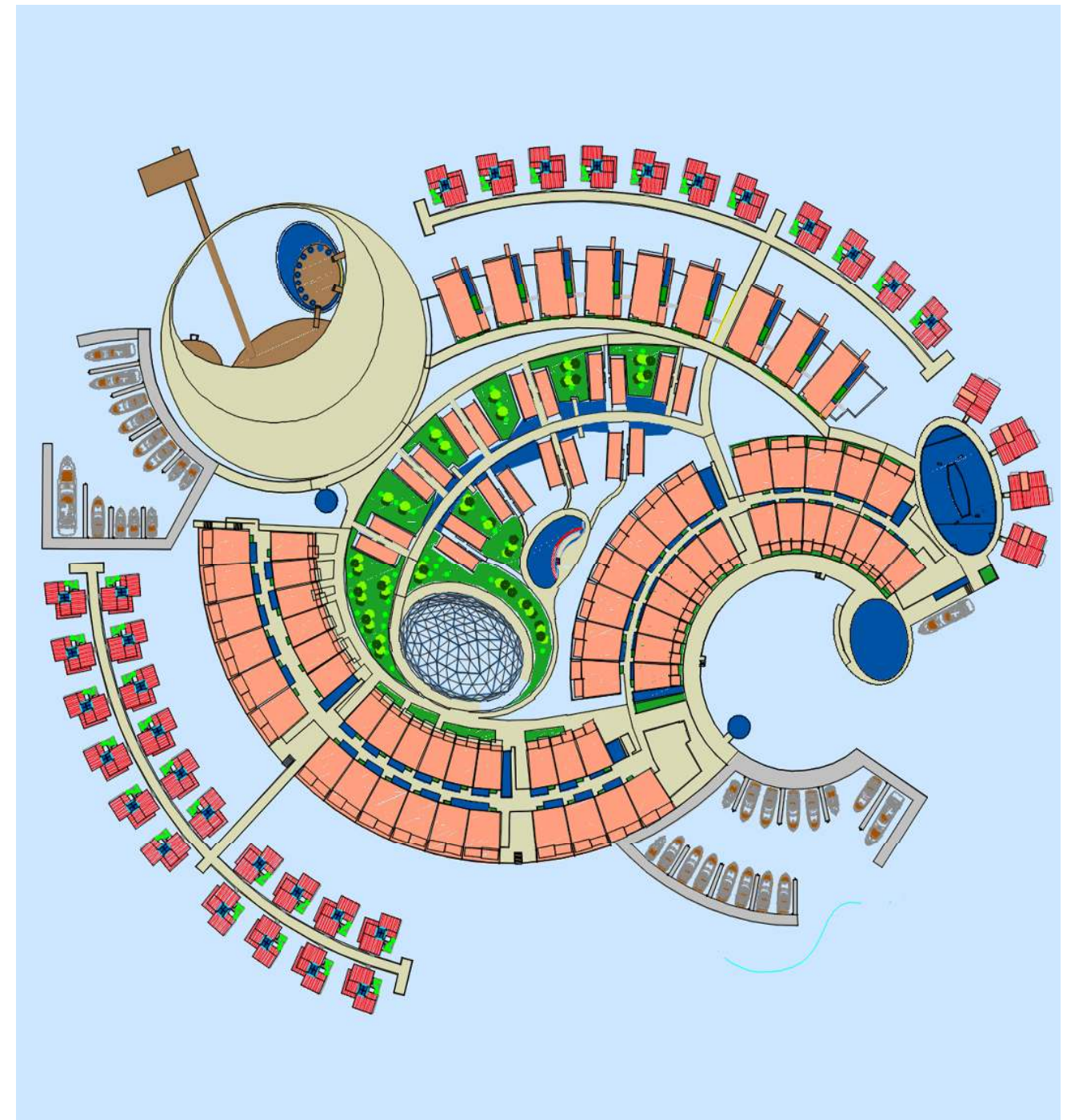
Western Marina

- Floating breakwaters
- Floating finger piers
- 13 berths for different yachts sizes

Eastern Marina

- Floating breakwaters
- Floating finger piers
- 16 berths for different yachts sizes
- Drawings / BoQ

Ports / Marinas



TROPICAL BEACH WATERFRONT

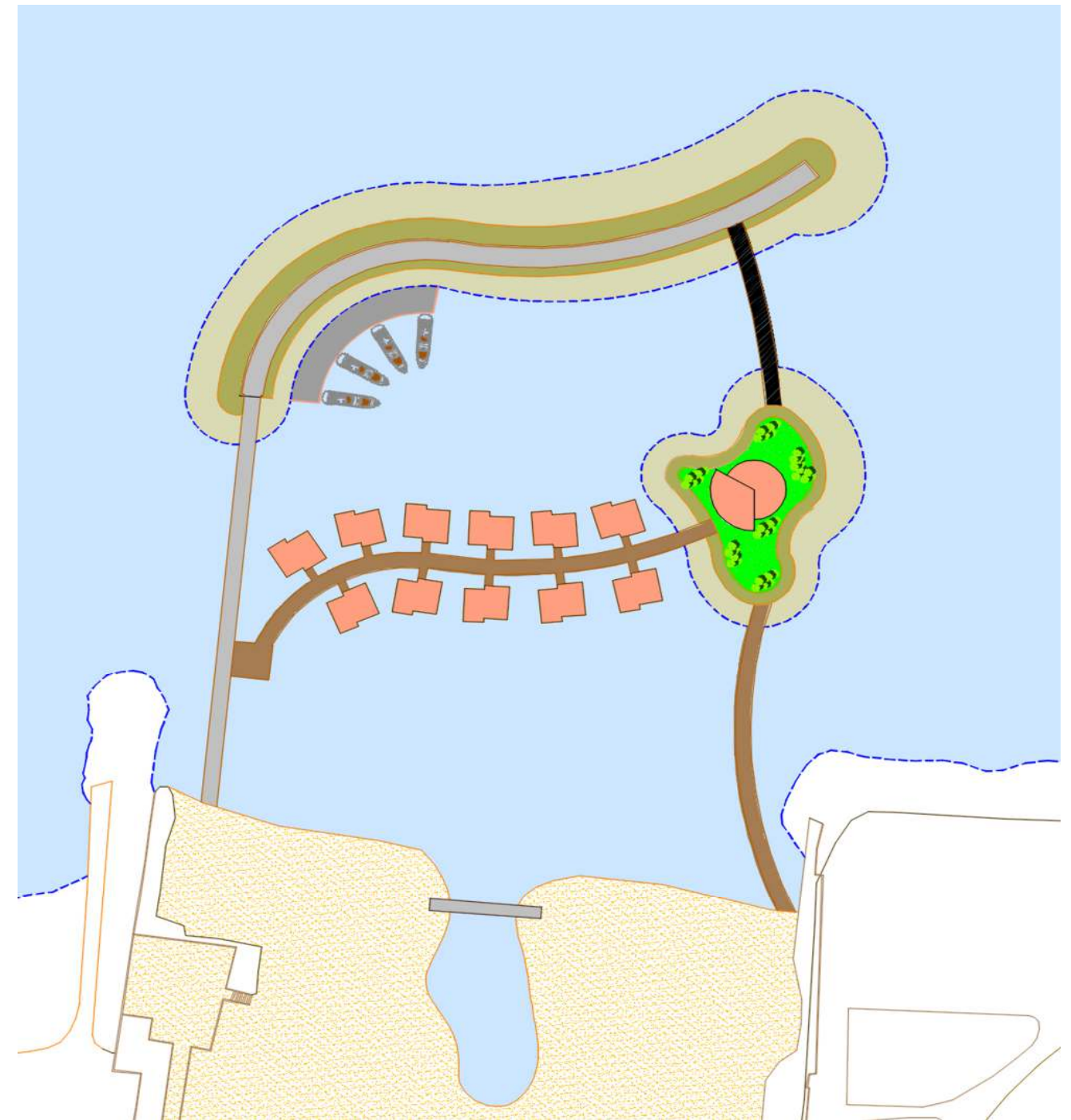
89

Client Tropical Beach
Location LEBANON – Zouk Mosbeh
33°57'32" N
35°35'55" E
Consultant SEATEC sarl

Tropical Beach Waterfront

Year 2008
Conceptual Design

- Waterfront and beach development
- Detached breakwater (L=110m) with rocky protection @max -4.00m
- Reclaimed area / island (3,700m²)
- 11 wooden bungalows on piles surrounded by seawater
- Sandy beach stabilization (L=100m of shoreline)
- Motor boats berths (Nbr 4)
- Drawings / BoQ



Ports / Marinas / Beaches

MINA AL FAJER MARINA

90

Client BATCO sal
Location UAE – Fujairah
25°35'11" N
56°21'24" E
Consultant SEATEC sarl

Mina Al Fajer Marina

Year 2006
Bidding assistance

- Method statement and BoQ



Ports / Marinas

AL SEEF AND BANIYAS MARINA

91

Client Arab Express

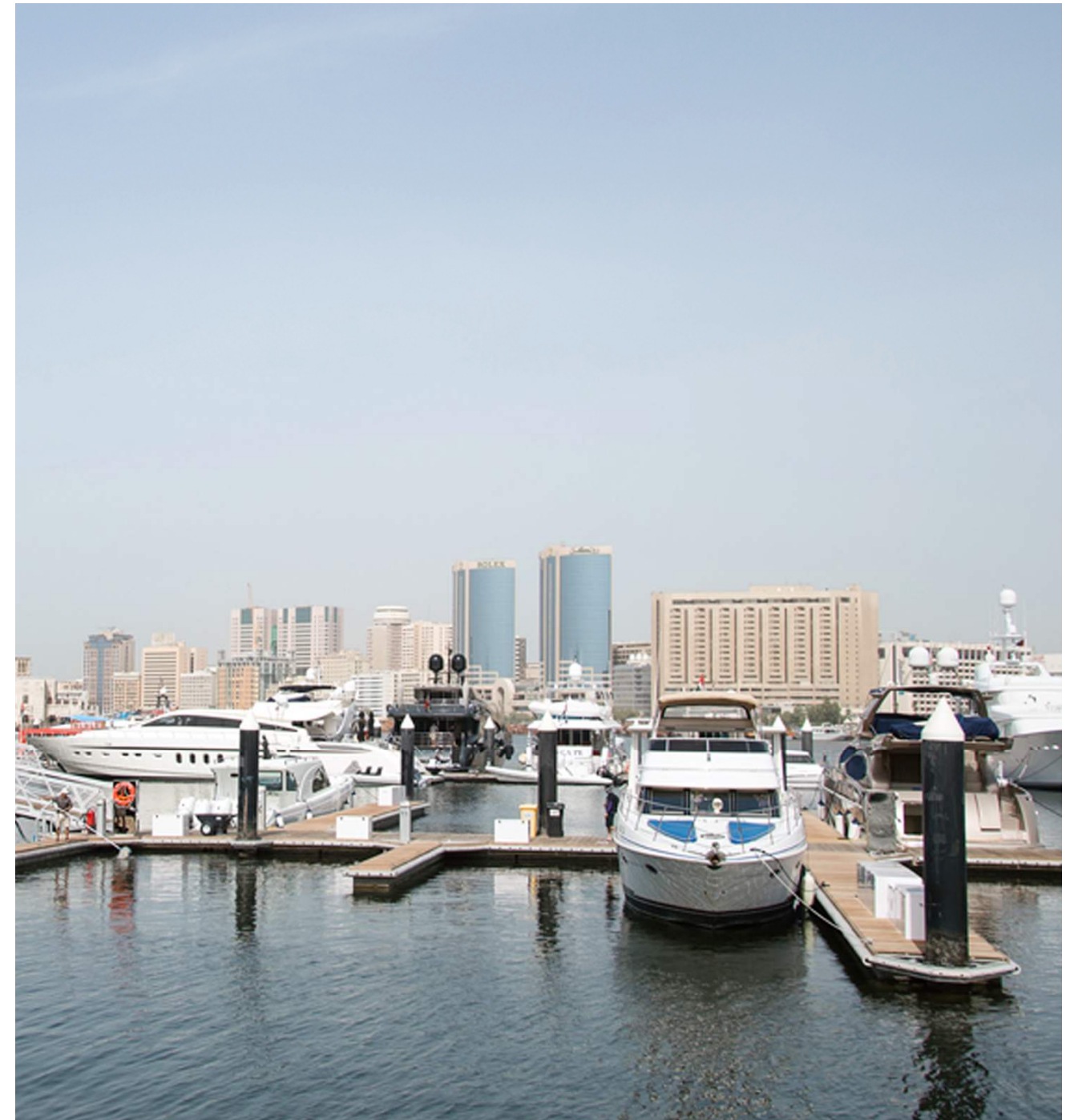
Location UAE – Dubai
24°25'20" N
54°24'14" E

Consultant SEATEC sarl

Al Seef and Baniyas Marina

Year 2005
Bidding assistance

- Method statement and BoQ



Ports / Marinas