



# الخرائط العالمية GMap

Total Geographic Solutions

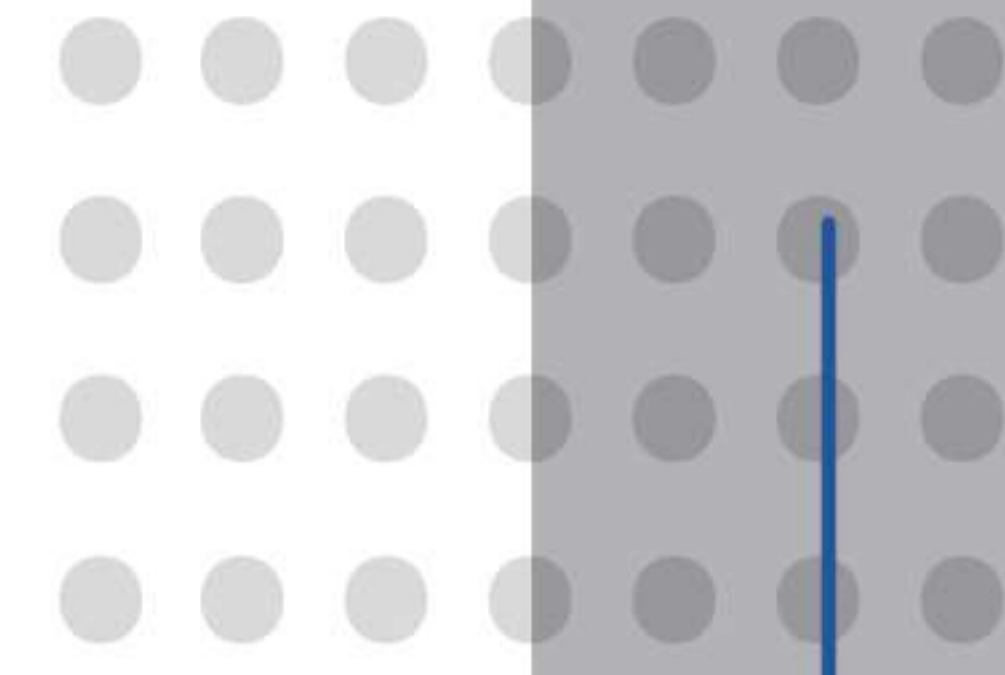


Mobile Mapping | Laser Scanning | Drone Survey | Bathymetric Survey | GPR Survey | Land Survey | GIS Mapping

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# INTRODUCTION

G Map: Precision Meets Innovation in Geospatial Solutions

Welcome to G Map, where precision, accuracy, and innovation form the cornerstone of our legacy. Strategically based in the Sultanate of Oman, we've been at the forefront of offering unparalleled surveying services since 2009. We empower industries to navigate their future confidently by providing state-of-the-art geospatial insights.

ISO 9001:2015 Certification\*: Our commitment to excellence is embedded in our DNA. This isn't just a statement – our ISO 9001:2015 certification is a testament to our relentless pursuit of quality. It assures our stakeholders of our unwavering dedication to maintaining world-class standards and delivering consistent results.

Our Expertise\*: At G Map, we believe in tailored solutions. Leveraging cutting-edge technology and a team of seasoned experts, we execute projects, both simple and intricate, with finesse. Our suite of services includes but isn't limited to:

- Mobile Lidar Scanning
- Drone Surveying
- 3D Terrestrial Lidar Scanning
- Ground Penetrating Radar (GPR)
- Bathymetric Surveys
- Differential Global Positioning Systems (DGPS)
- Road Design
- GIS & CAD Services

Looking for a trusted partner in the geospatial domain? G Map stands ready to exceed your expectations with unparalleled expertise and commitment. Let's navigate the future together.

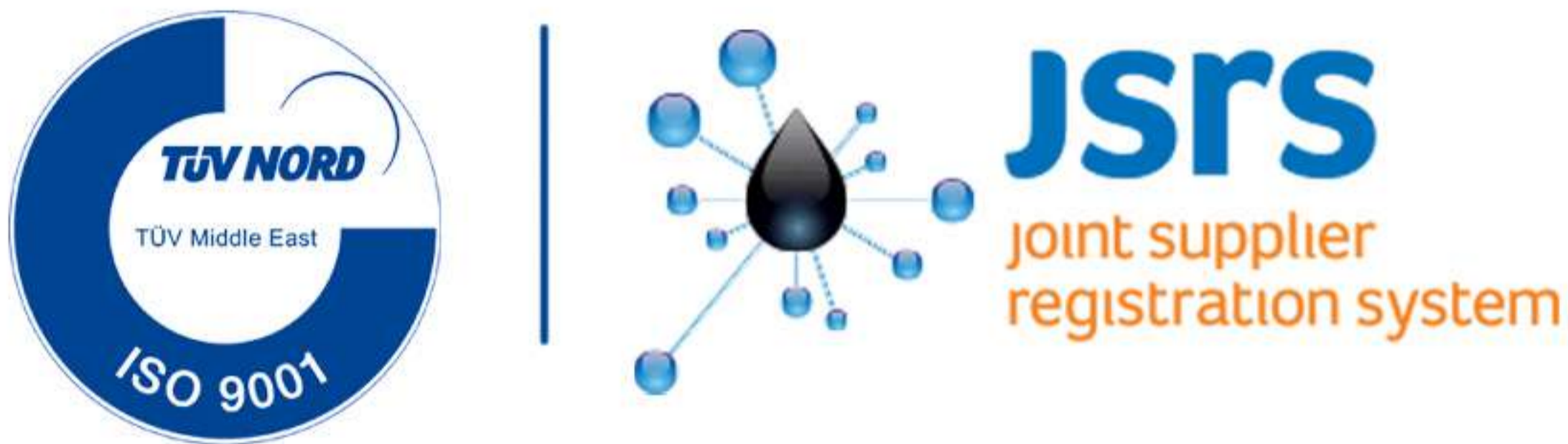
Sincerely,

**Vidyadharan.M**  
**Managing Director/CEO**



# Highlights

## Certified In :



## Registered In :



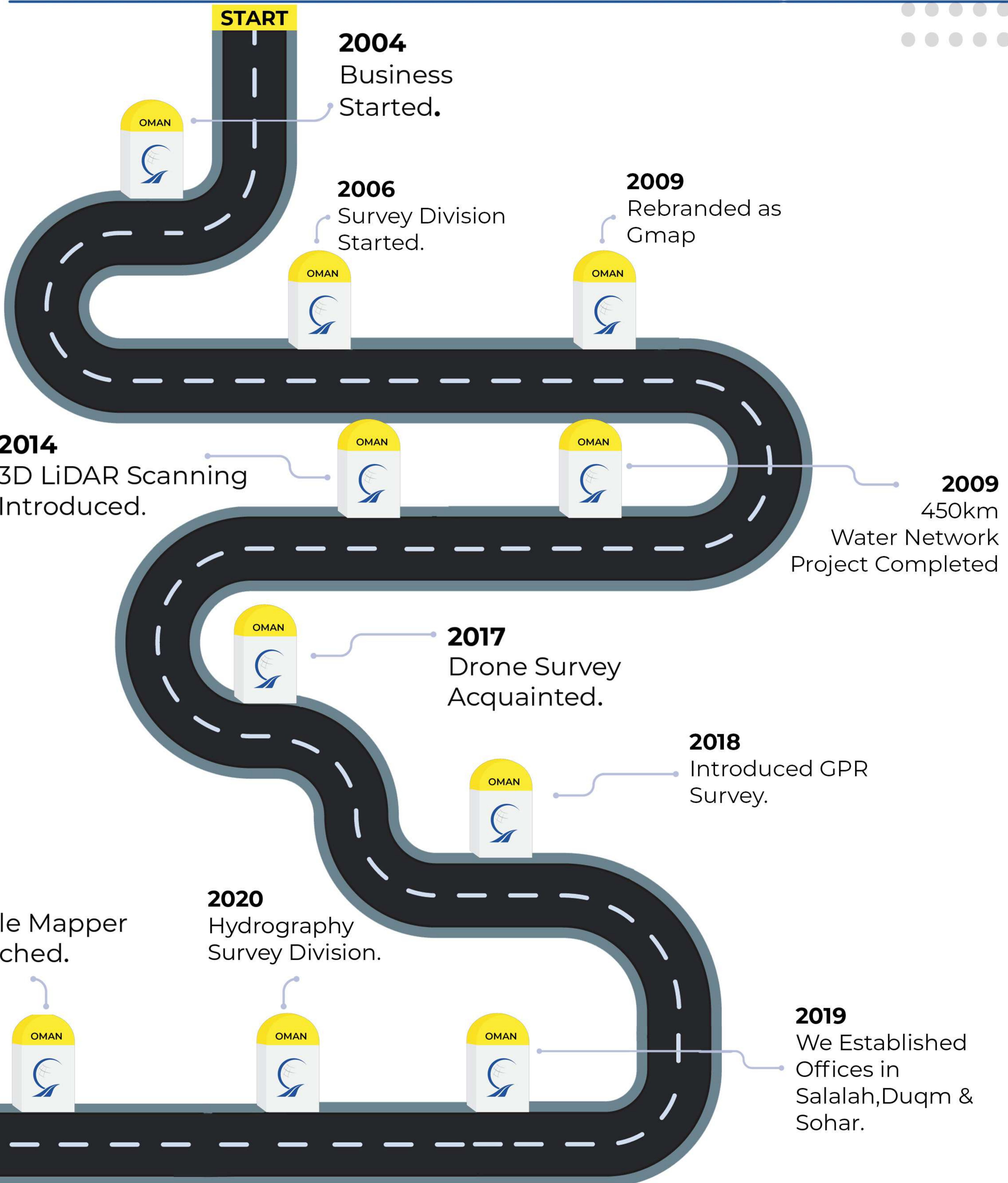
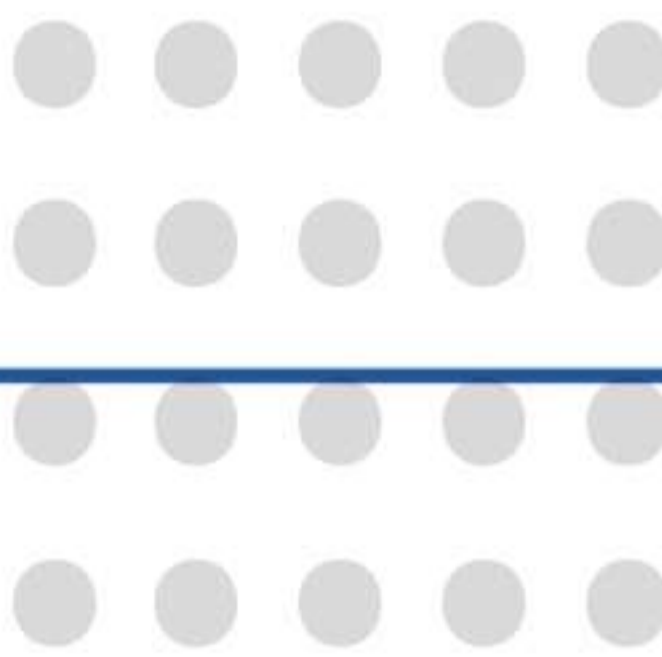
1. Completed 5000+ Projects in Oman.
2. Completed 200+ Projects in 3D LiDAR Scanning.
3. Completed 3750+ Flying Hours & 200+ Projects in Drone Survey.
4. Completed 100+ GPR Survey Projects.
5. Completed 50+ Hydrography Survey.



# COMPANY CERTIFICATES



# History



# KEY STAFF



**SAID SALIM HUNAIID AL MUGHAIZAWI**  
DIRECTOR

Said Salim Hunaid Al Mughaizawi, in his role as Director, offers vital strategic direction, makes significant decisions, and monitors company operations. His focus remains on prioritizing the company and its stakeholders. He plays a pivotal role in goal formulation, resource allocation, ensuring legal adherence, and propelling the company's overarching achievements.



**KHALID GAHWARI**  
DIRECTOR

Mr. Khalid Jahwari, as Director, spearheads our company's strategic direction. He plays a pivotal role in decision-making, operations oversight and ensuring the company's best interests align with stakeholder expectations. His leadership responsibilities include goal-setting, resource management, legal compliance and championing the company's overarching success.



**SIBI P BENNY**  
GENERAL MANAGER

Sibi P Benny holds the esteemed position of General Manager, overseeing the entirety of the company's operations, programs, and business strategies. He is accountable for the financial policies, comprehensive management, and overall control. He takes charge of hiring, training, and overseeing roles such as the Operations Manager, Public Relations Officer and Administrative Coordinator. Additionally, he has the discretion to delegate financial operations tasks to the aforementioned roles.



**SREEJITH S**  
ASSISTANT GENERAL MANAGER

Sreejith S, as the Assistant General Manager, supervises the operations of all G Map programs. He is tasked with updating, formulating, and executing Operational ISO Standards. Under the mentorship of the General Manager, he manages the recruitment, training, and supervision of Departmental Managers, Program Managers, HR, Administrative Assistants and other functional roles. Recognized as Key Personnel in our Statement of Work, he ensures Health, Safety and Environment (HSE) standards, quality, and risk assessments for every project.



# KEY STAFF



**BADER AL ESRI**  
PUBLIC RELATIONS OFFICER

Bader Al Esri shoulders the responsibilities of shaping the company's public relations through strategic planning. He organizes and manages events, exhibitions, and conferences. Moreover, he adeptly handles any public disputes or disagreements with external partners. He also spearheads public surveys and gauges public sentiments. His role operates under the supervision of the General Manager.



**KISHORE THANISSERY**  
SALES & MARKETING MANAGER

Kishore Thanissery, in his capacity as Sales & Marketing Manager, undertakes a range of responsibilities from boosting revenue, enhancing the brand's market presence, to identifying opportunities for marketing campaigns. As BDM, he collaborates closely with the sales, marketing and development sectors to ensure unified marketing strategies throughout the company. His role is under the direct oversight of the General Manager.



**SREEKANTH K**  
GEOSPATIAL ENGINEER

Sreekanth K, as a Geospatial Engineer, employs cutting-edge technology and spatial data to gather, process and represent geographic information. He is integral in obtaining and managing geographic data, ensuring precise and exhaustive spatial details are provided for diverse projects.



**SAYOOJ PA**  
OPERATION MANAGER

Sayooj oversees and manages survey projects from inception to completion. He coordinates various project facets, including planning, scheduling and allocating resources. By engaging with clients, team members and stakeholders, he ensures seamless survey execution. He vigilantly monitors progress, addresses challenges and ensures the timely achievement of project milestones.





# KEY STAFF



**NAVEEN JOSE**  
FINANCE MANAGER

Naveen Jose is the pivotal Finance Manager and the designated Chief Financial Officer and Principal Negotiator for G Map. He oversees the company's financial health, managing tasks such as financial planning, budget formulation, account audits, establishing internal checks, spearheading fundraising and handling other fiscal concerns. He operates under the direct supervision of the General Manager.



**RANJEET SINGH**  
CAD HEAD

Leading the AutoCAD department, Ranjeet Singh manages a dedicated team of drafters and designers who craft detailed technical drawings from onsite survey data. He supervises the drafting process, delegates tasks and ensures all work aligns with project guidelines and standards. By reviewing and approving drawings, he provides pivotal technical guidance to his team. His expertise aids in converting survey data into accurate visuals vital for planning, design and construction.



**MADWESH VYASA RAO**  
QA / QC Engineer

Madwesh Vyasa Rao is dedicated to guaranteeing the precision, trustworthiness, and uniformity of all survey data and outcomes. He crafts and adopts quality control measures, scrutinizes survey techniques, verifies data collection methods, and detects any potential discrepancies. As a QA / QC officer, he is essential in upholding the integrity of survey projects, ensuring G Map's collected data adheres to the zenith of quality and accuracy standards.



**RENJITH BABU**  
SURVEY HEAD

Renjith Babu heads a team of surveyors, steering them in conducting field surveys, data collection and mapping. As a leader, he synchronizes survey projects, assigns duties and ensures data is collected both promptly and accurately. Beyond supervising the quality of data, he manages resources and equipment. His role also involves engaging with clients, stakeholders and other departments, offering technical insights and ensuring surveys are conducted proficiently, safely and in line with established guidelines.

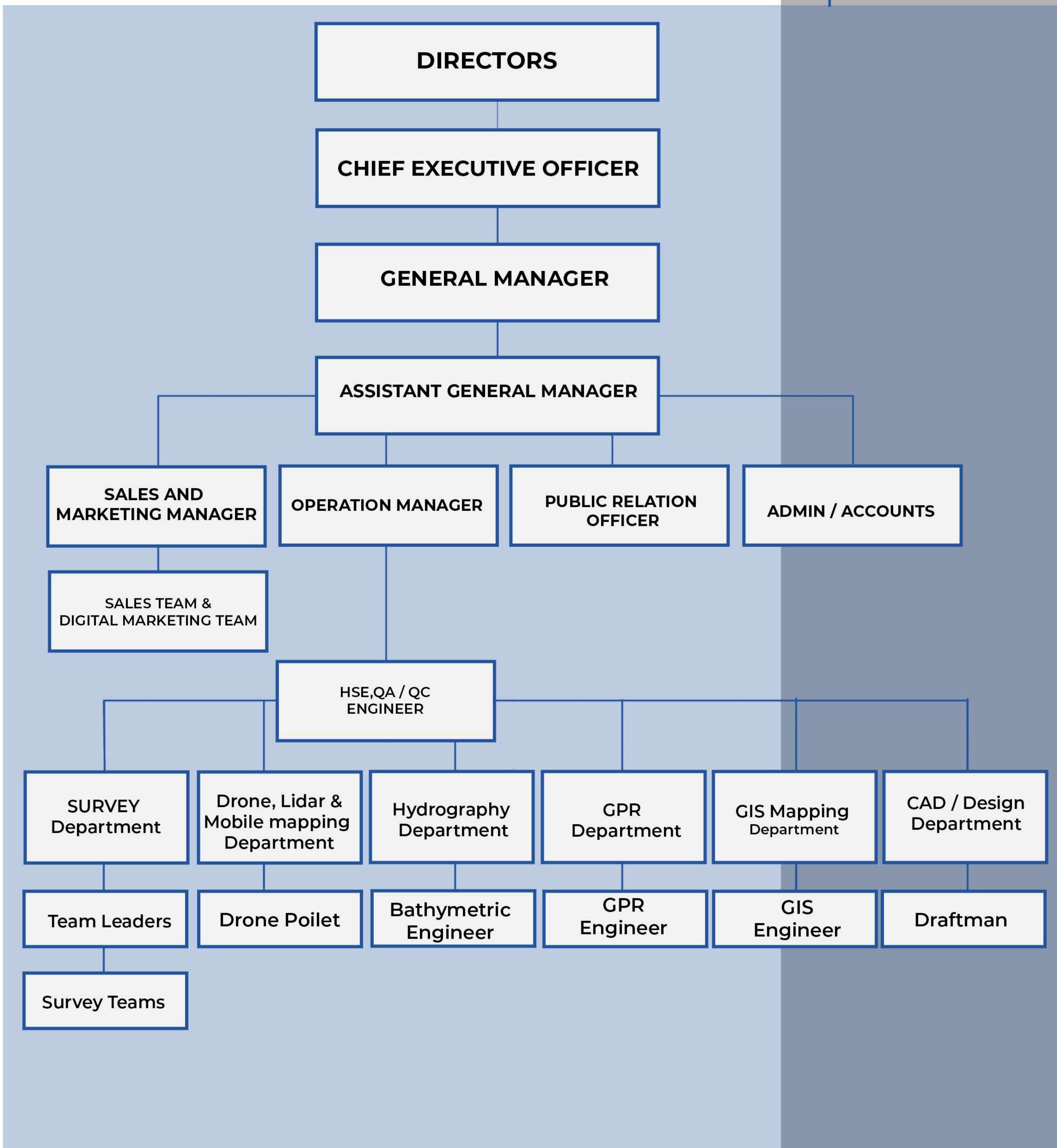


**Anoop**  
SURVEY HEAD

Anoop heads a team of surveyors, steering them in conducting field surveys, data collection and mapping. As a leader, he synchronizes survey projects, assigns duties and ensures data is collected both promptly and accurately. Beyond supervising the quality of data, he manages resources and equipment. His role also involves engaging with clients, stakeholders and other departments, offering technical insights and ensuring surveys are conducted proficiently, safely and in line with established guidelines.



# ORGANIZATION CHART



# OUR SERVICES



Mobile Mapping



Drone Survey



3D Lidar Scanning



Hydrographic Survey



Under Ground Utility Scanning

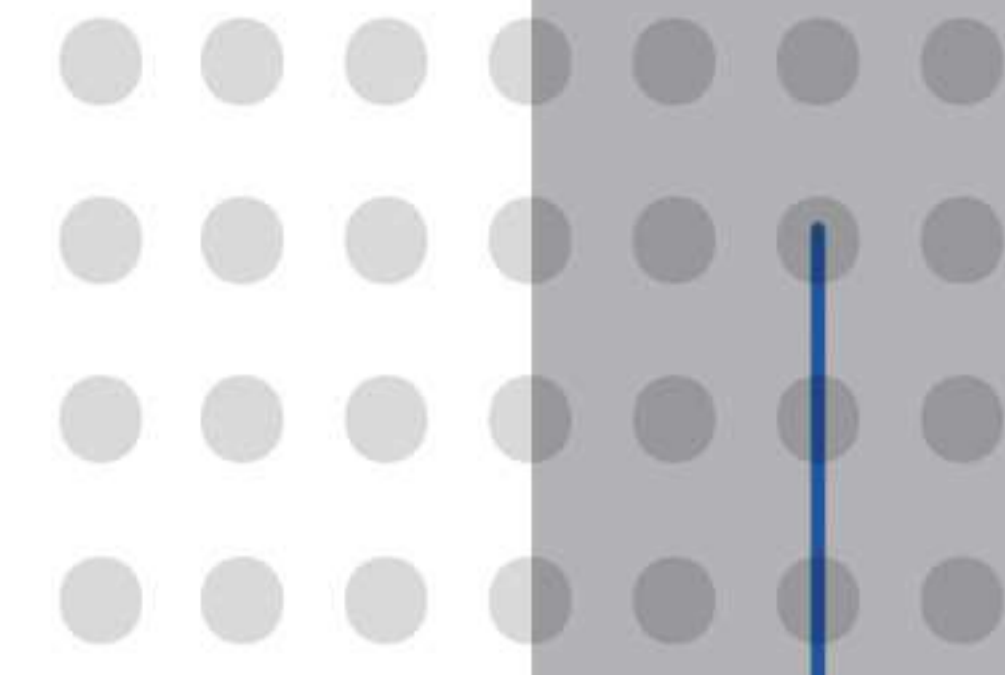


Land Survey



GIS Mapping, Satellite Imaging  
& CAD Services & Design





# MOBILE MAPPING

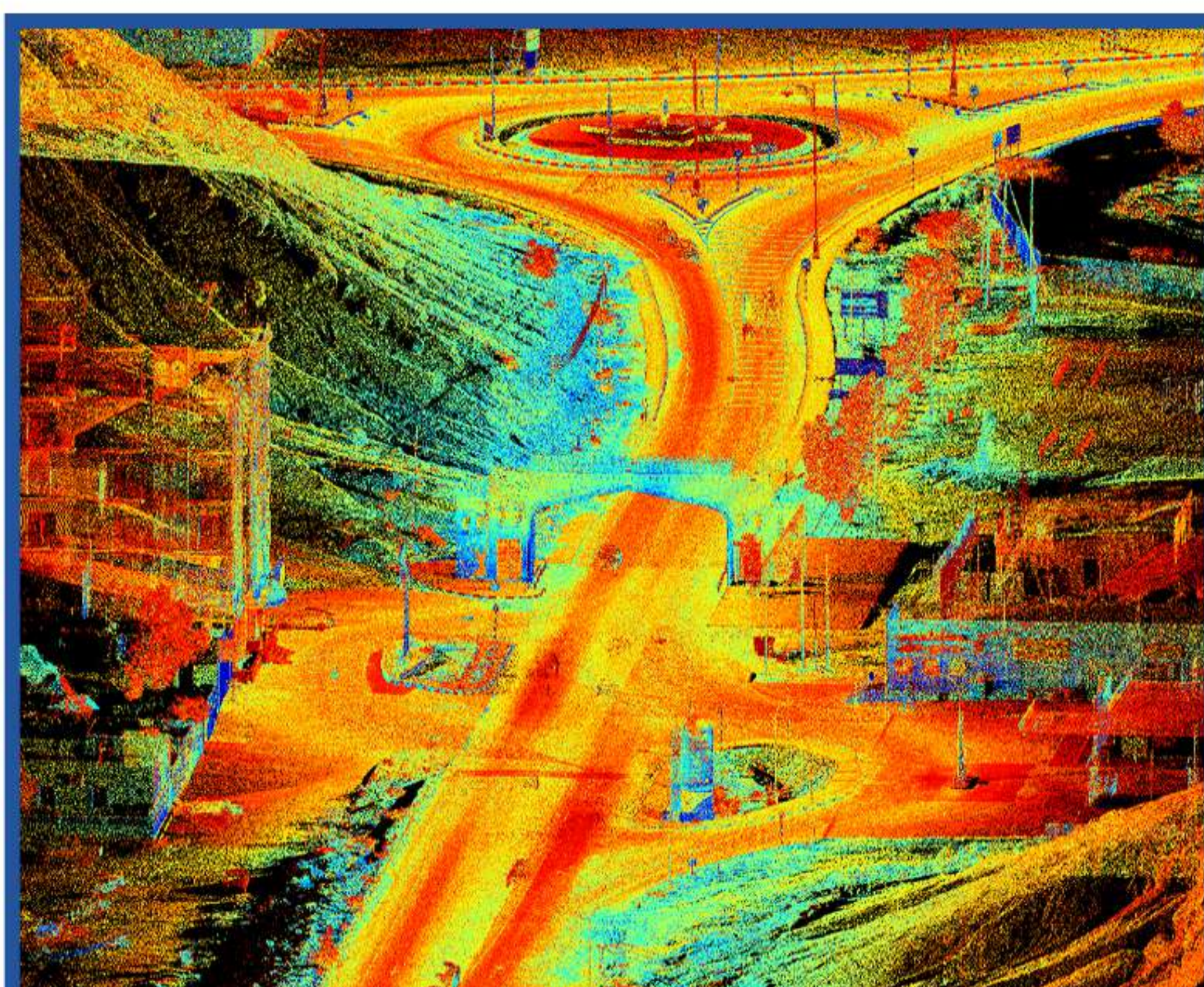
We're excited to showcase our latest Mobile Lidar Scanning system, designed to be mounted on vehicles.

This system efficiently captures detailed point clouds and images, both panoramic and from multiple angles. By operating at highway speeds, it greatly enhances data gathering on busy roads and reduces the need for lane closures.

Our Trimble MX9 stands out with its vehicle-mounted mobile lidar capabilities, versatile multi-camera imaging and specialized field software. This ensures a comprehensive data capture process suitable for diverse mobile mapping tasks, including road surveys, topographic studies, 3D visualizations and asset tracking.

The system is equipped with two lidar sensors, achieving a measurement rate up to 2 MHz, covering a range of up to 420 meters and ensuring 5 mm accuracy within a full 360° view. Furthermore, it incorporates a multi-camera configuration designed for 360° imaging and is complemented by top-tier GNSS/INS.

This state-of-the-art technology is tailored for various applications, from transportation planning and detailed survey documentation to GIS representation and asset supervision. It's an invaluable tool for urban planning, inventory assessments and 3D building modeling.



# MOBILE MAPPING

## MAJOR PROJECT DETAILS

SL NO.	Project name
1	Tender No 320/2022 Route survey of 400 KV double circuit overhead line inside Oman 85 Km.
2	Topographic & Hydrographic Survey At Kawr Al Batah Project At Sur, Sultanate Of Oman.
3	Topographical Route Survey & Under Ground Survey For Proposed Oman Gas Upstream Block 10 Phase 2.
4	AL Khuwair Down Town Project.
5	Topographic Survey For Manah Solar li Independent Power Project.



# LiDAR & DRONE SURVEY

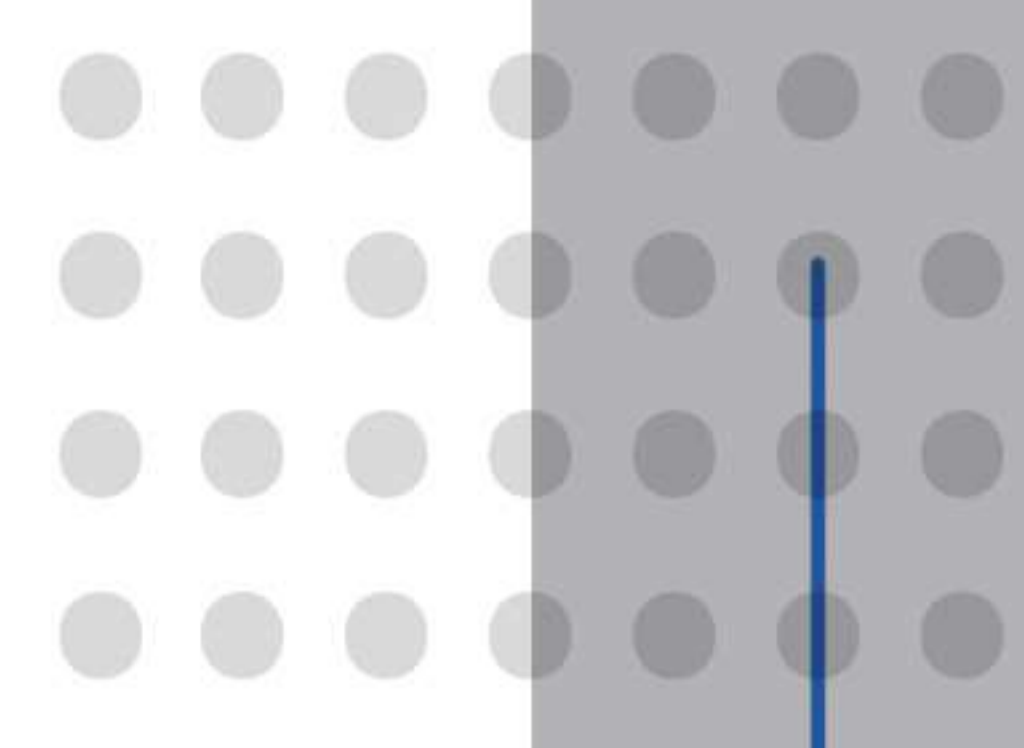
3D LiDAR (Light Detection and Ranging) Scanner is a remote sensing technology which uses the pulse from a laser to collect measurements which can then be used to create 3D models and maps of objects and environments. It gives a high accuracy data in Point Cloud with exact geo referenced coordinates and measurement, which creates a 3D representation of the target object or area. Combines surveying, imaging and highspeed 3D scanning in one revolutionary solution. Some of the common work areas where Lidar & Drone services needed.



Our drone/UAV photogrammetric technology represents the forefront of imaging systems. It employs the aerial triangulation technique to capture high-quality aerial photographs, seamlessly integrating with RTK GPS. This synergy enables us to generate 3D digital terrain models that boast centimeter-level precision. We offer diverse output formats including Orthophotos, DEM, DSM, DTM, high-resolution images, dense point clouds and 3D models. Some of the key applications of our technology are:

- Crafting detailed 3D Digital Surface Models and Orthomosaics.
- Tracking the progress and volume of construction projects, land developments, dredging areas, and stockpiles.
- Conducting expansive dune area surveys.
- Surveying remote and challenging-to-reach areas for feasibility studies.
- Efficiently mapping corridors with precision in a single line of sight.
- Carrying out detailed photographic inspection tasks.





# LiDAR & DRONE SURVEY

## Equipment used

ITEM NO.	DATE OF PURCHASE	ITEM	MODEL NO.	MADE
<b>TERRESTRIAL LIDAR SCANNER</b>				
1	8/10/2016	STONEX	X-300	ITALY
2	30/10/2018	TRIMBLE	SX-10	USA
<b>DRONE/UAS</b>				
3	22/10/2019	DJI	PHANTOM 4 RTK	HONKONG
4	14/08/2018	DJI	Dji Matrice 300 RTK	USA



## Softwares used

SL No.	Software
1	Trimble Business Center 5.2
2	ArcGIS 10.7
3	DJI GS Pro
4	Agisoft metashape professional
5	AutoDesk AutoCAD Civil 3D 2020



DGPS



Dji Matrice 300 RTK



Dji D-RTK Base Station



Dji Zenmuse P1



Dji Phantom 4 RTK



Storage and Processing system



Trimble SX 10



Stonex X-300

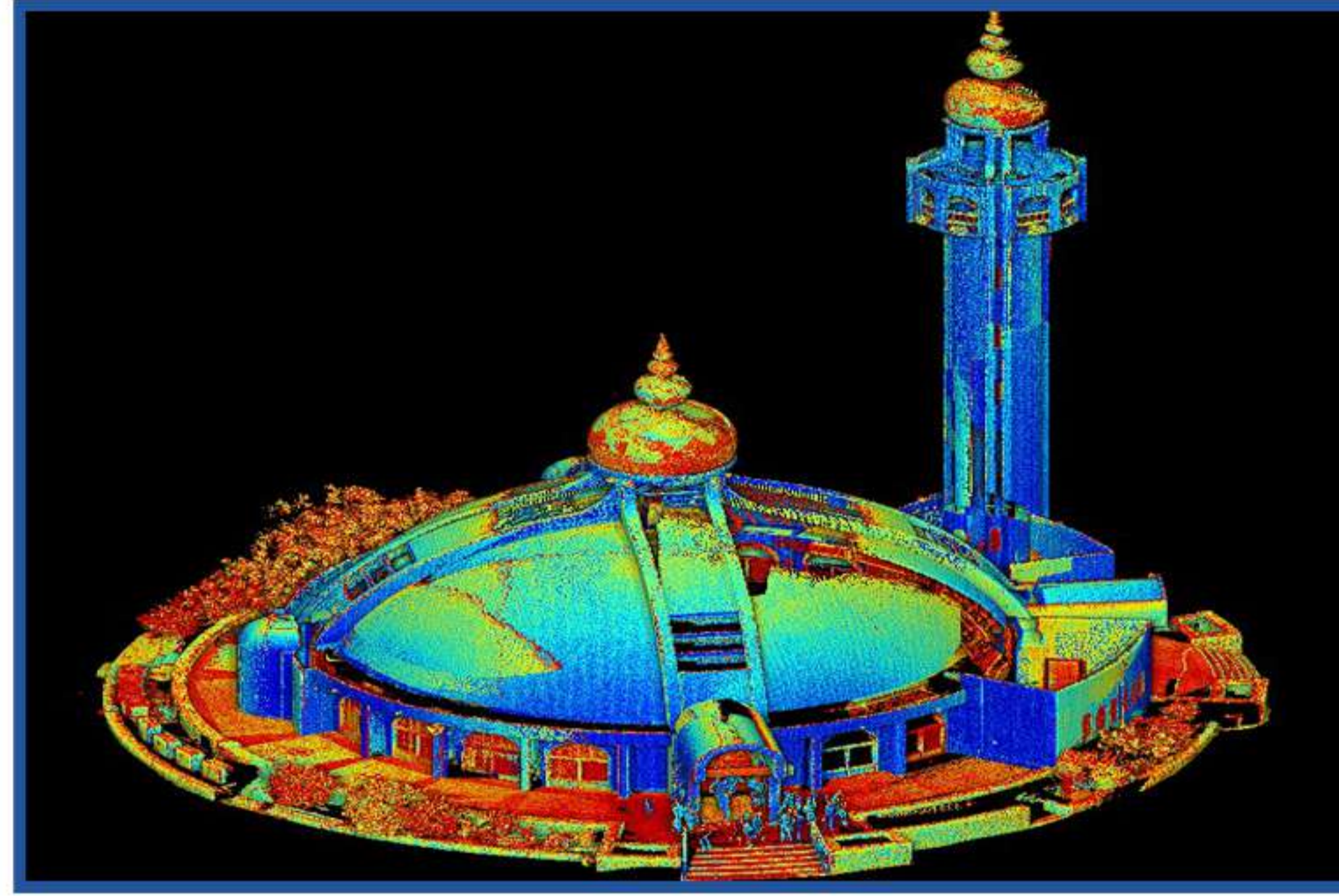


Storage and Processing system

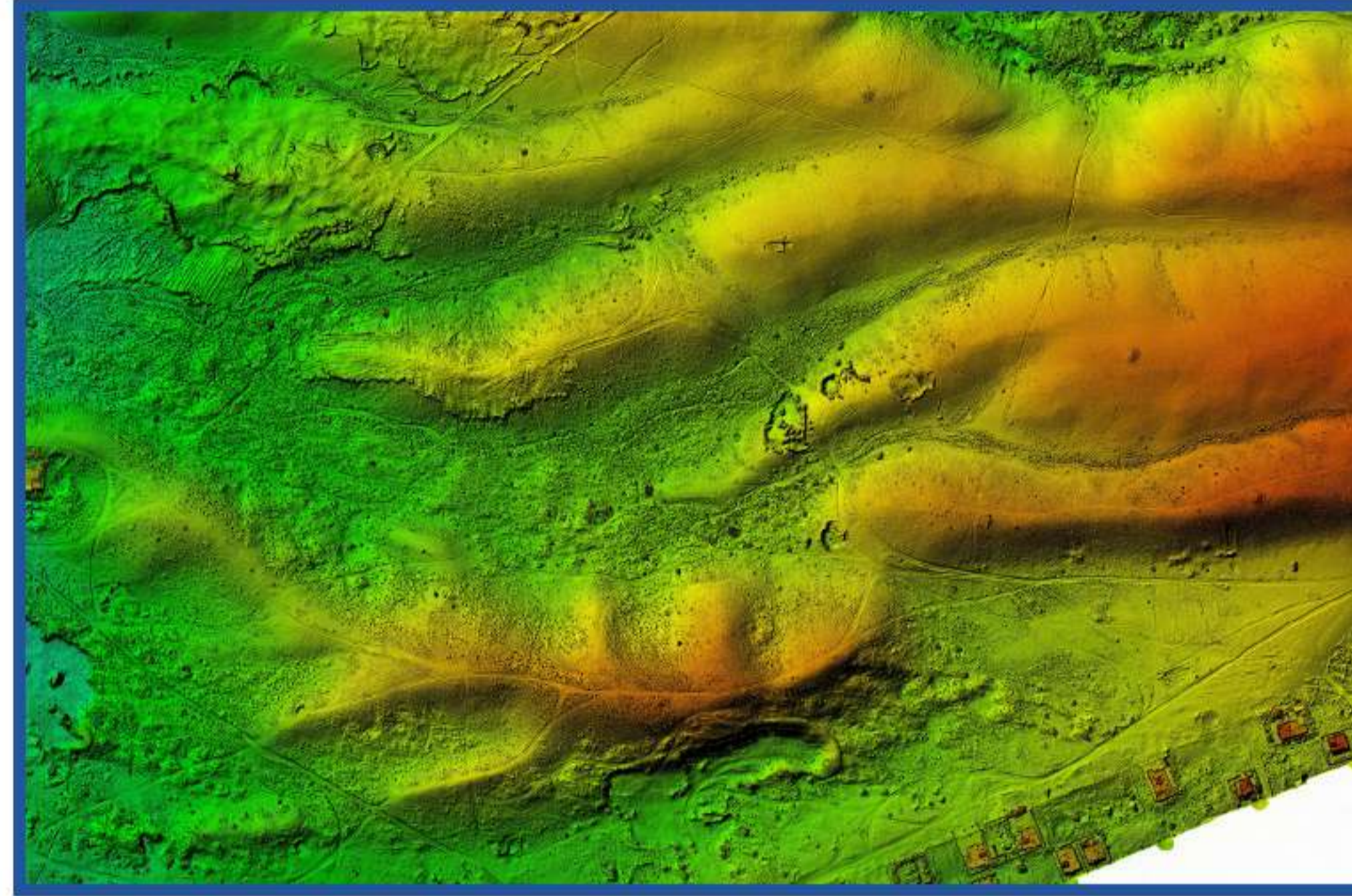


# LiDAR & DRONE SURVEY

## LiDAR SURVEY

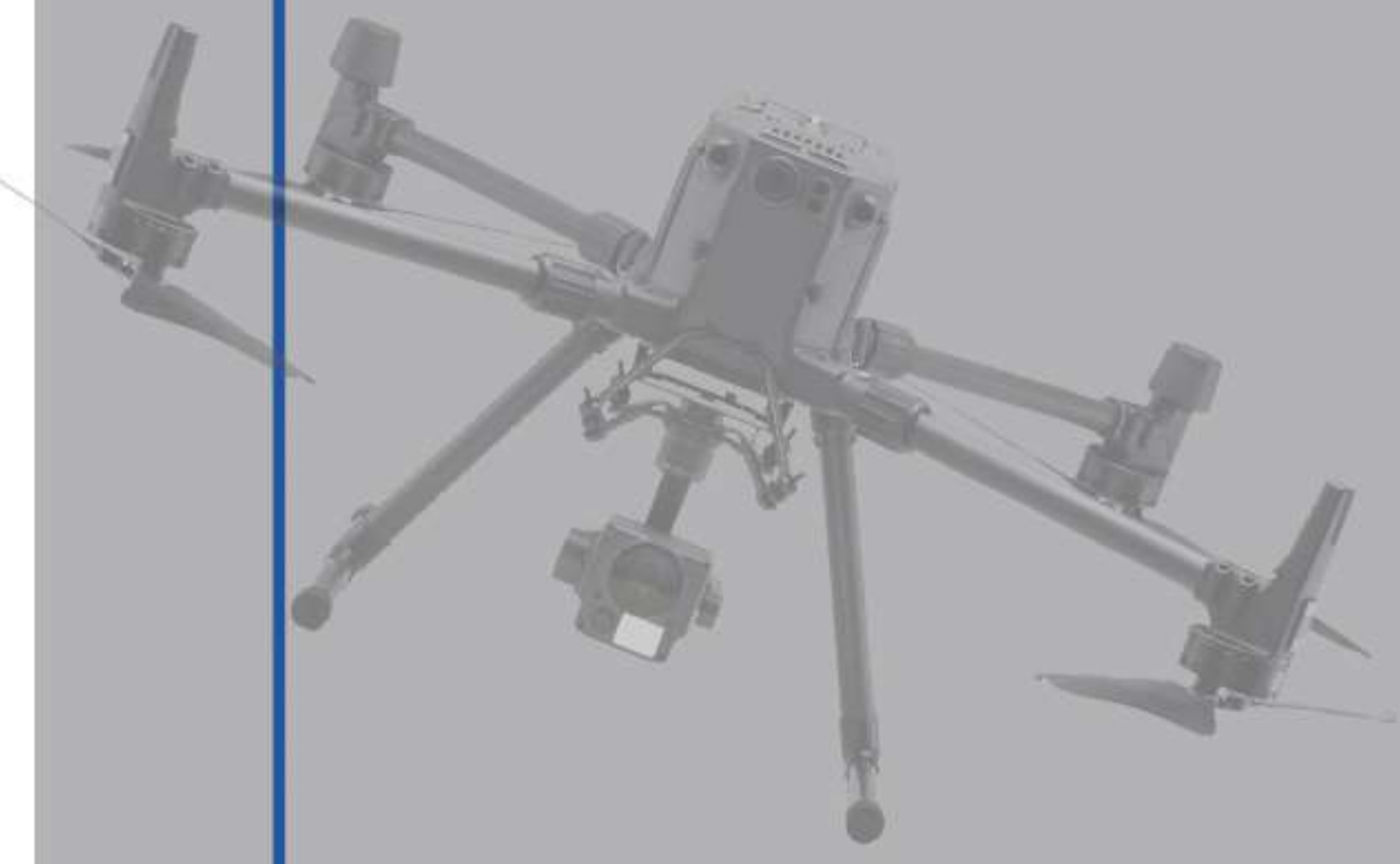


## DRONE SURVEY



## MAJOR PROJECT DETAILS

SL NO.	Project name
1	3D LiDAR AS-Built Survey & preparation of textured 3D model for Crown Plaza Salalah Refurbishment & Redevelopment.
2	3D LiDAR AS-Built Survey & preparation of AS-Built drawing for Crown Plaza Qurum for Refurbishment & Redevelopment.
3	3D LiDAR Topographic Survey for Jabal Bausher (mountain wall project).
4	3D LiDAR Topographic Survey for Green peek project.
5	Aerial Survey for water transmission system project at Al Dhahirah Region.
6	Detailed AS-Built Survey & preparation of AS-Built drawing for Intercontinental Hotel Muscat.
7	Topographic Survey of dolomite exploration lease area at Quriyat using Drone.
8	Topographic Survey & quantity calculation of finished products & intermediate products of Quarry extracted materials at samail using Drone.
9	Topographic Survey & quantity calculation of the mrp material at Sohar free zone using Drone
10	Drone based Topographic Survey for the proposed development area at Yiti.
11	Master plan for new City at Nizwa, Sohar and Salalah.
12	Topographic Survey with Drone for the Land Reclamation for Future Development Purposes at Kumzar, Musandam Governorate.
13	Topographic Survey and videography for master plan for new City at Sohar, Rustaq, Sur, Salalah, Khasab.





# Hydrographic Survey

## 1. Bathymetric Survey.

Hydrographic surveys are carried out to measure water depths in places like ports, anchorages, rivers, inland waterways, dams and reservoirs. These surveys support various activities including navigation, engineering projects, irrigation, tidal power generation, tourism, inland water transportation and processes like pre-dredging, ongoing dredging, post-dredging, siltation control, pollution monitoring, and flood management.

The data we collect aids in a myriad of decision-making processes, such as vessel routing, resource allocation, infrastructural planning, marine construction, coastal development and even strategic military and environmental management considerations.

We offer both:

- Single Beam and
- Multi Beam methodologies.

## 2. Marine Geophysical Survey

Geophysical surveys are crucial in developmental activities and are often used to probe before initiating major engineering tasks. These surveys span from a project's inception to its final engineering or exploration phase. For marine projects, we often merge seismic surveys with others like bathymetric, side scan sonar and magnetometer to provide a thorough understanding of both the seabed and what lies beneath. We employ various methods such as electrical, electromagnetic, gravity, magnetic, magneto-telluric and seismic to map below-ground geology, with each technique serving distinct purposes.

### A. Side Scan Sonar

This tool, sometimes referred to as side-imaging or side-looking, is typically towed by a vessel, capturing expansive views of the seafloor on both sides. Its ability to quickly map extensive seafloor areas and produce near-photographic images makes it indispensable for those needing detailed seabed visuals.

### B. Sub Bottom Profiler

We utilize the GeoAcoustics 5430 model for sub-seabed data collection, typically operating at a frequency of 3.5 kHz. The GeoPulse profiler is an established, industry-favored tool for shallow geophysics. Its versatile design allows for deep water hull-mounting, side mounting for smaller vessels, or even as a towed system.

### C. Magnetic Survey

At G Map, we prioritize understanding our client's unique needs and tailor our geo-approach accordingly. Magnetic Surveys, conducted both on land and marine terrains, assess fluctuations in the Earth's magnetic field. When a magnetometer detects local disturbances in this field, they're termed 'anomalies' and usually denoted in 'gamma.'

These observed anomalies capture the collective impact of both induced and residual magnetizations, which often vary in direction and magnetization intensity. Magnetometer surveys are especially adept at identifying and charting ferrous objects of all dimensions, from anchors, chains and cables to shipwreck remnants, munitions, aircraft and any other magnetically expressive item.



Singlebeam Sonar



Multibeam Sonar



# Hydrographic Survey

## D. ROV Survey

A Remotely Operated Underwater Vehicle (ROV) is a tethered mobile device used underwater. ROVs come in two types:

- Class I: Observation Only
- Class II: Observation with Payload

ROVs are increasingly being used for tasks like pipeline assessments, structural inspections of jackets and inspecting ship hulls. As industries aim to find safer methods than employing divers, the popularity of ROVs is on the rise. During initial surveys, they help pinpoint wreckage, discarded metal debris and more. Surveys are structured in block and grid formats to ensure detailed reporting of all findings with precise location data.

Furthermore, ROVs are deployed for trenching, pipeline installation, jacket installations and other post-installation activities, either concurrently or based on client needs. Common projects that necessitate geophysical services include:

- Sand or Cap Rock evaluations for land restoration or beach enhancement
- Preliminary studies for Ports, Harbors, Power Plants, or Desalination Plants
- Post-dredging or channel access reviews
- Seabed or Pre-engineering assessments for projects like pipeline, jetty, or bridge construction
- Preliminary assessments for offshore infrastructures and clearance reviews for offshore anchors
- Debris or Salvage Surveys to locate lost marine items, including dredge cutters, anchor chains, shipwrecks, rudders, and pipelines.

## 3. Meteorology & Oceanography

Meteorological and Oceanographic studies are vital for preliminary engineering activities, marine environmental impact assessments, and risk mitigation related to natural disasters like tsunamis and cyclones. These studies also assist in navigation and framing coastal management plans.

Meteorological data encompasses measurements of various parameters, including:

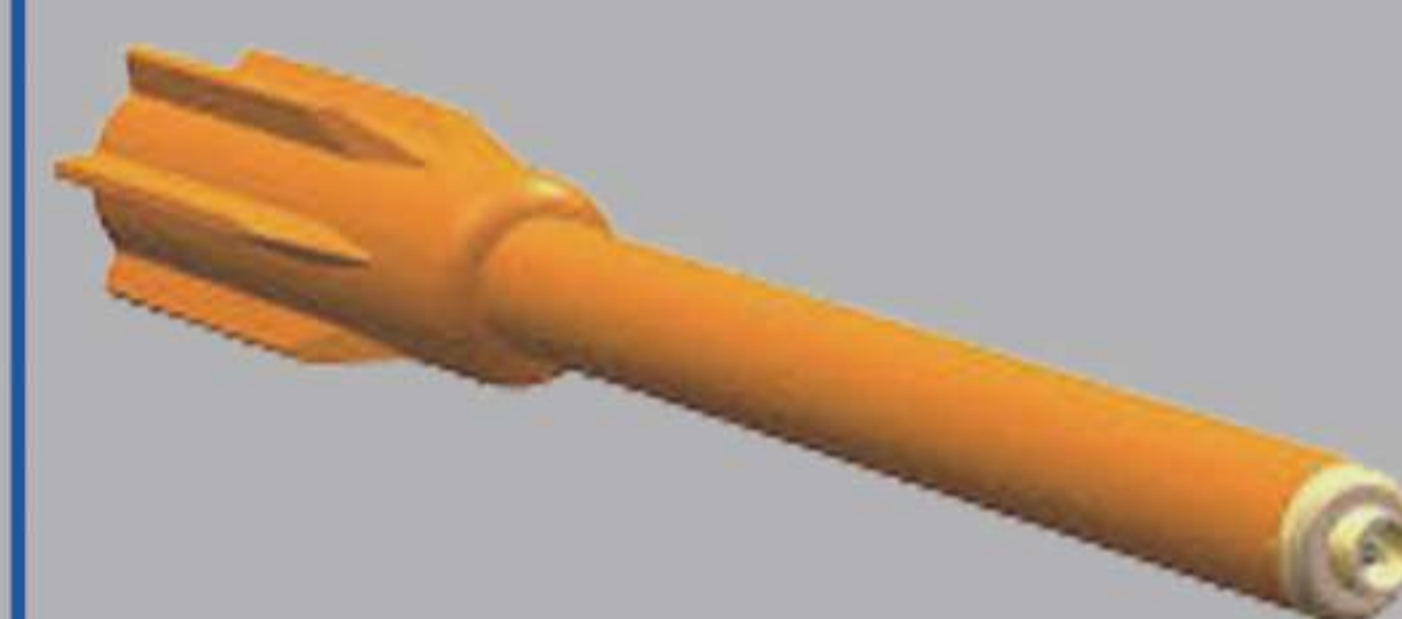
- Temperature
- Wind speed
- Solar radiation
- Lightning occurrences
- Snowfall
- Humidity
- Air quality
- UV index
- Rainfall

On the other hand, Oceanographic data focuses on measuring wave and current activity, crucial for hydrodynamic modeling in marine engineering projects. We utilize wave rider buoys to record oceanic waves, and we're fully equipped to measure sea wave parameters such as wave height, period, frequency and direction. Additionally, we analyze ocean current parameters like speed and direction.

At G Map, we collect and analyze these data points, understanding their geographical context and deriving meaningful insights. Our aim is to offer our clients the most comprehensive and tailored solutions.

Typical sectors requiring our Meteorological and Oceanographic services include:

- Coastal protection and engineering
- Port design and operation
- Environmental monitoring
- The oil industry, including oil platforms and LNG terminals
- Maritime safety



Magnetometer



Sub-bottom profiler



# Hydrographic Survey

## 4. Positioning Services

Positioning plays a pivotal role in surveying tasks. Particularly, underwater acoustic positioning is vital for a myriad of marine activities such as marine archaeology, salvage operations, oil and gas field explorations and tracking devices like side scan sonar tow fish. Due to the unique behavior of sound waves underwater, where they don't travel in a straight path, it's crucial to understand the varying speed of sound throughout the water to achieve optimal positional accuracy. Key areas benefiting from our positioning services include:

- Breakwater construction
- Vessel berthing in ports
- Rig movement and positioning
- Maintenance of ports and harbors
- Pipelaying operations

## 5. Machine Control Systems

Machine control systems stand out as some of the most adaptable grading technologies for professionals in underwater construction. These systems can be integrated into a range of machinery, from excavators and dozers to milling machines and pavers. By providing operators with in-cab access to design surfaces, grades, and alignments, these systems offer enhanced control across grading, excavating, compaction, and paving tasks. This not only minimizes material wastage but also substantially boosts productivity and cost-efficiency.

### Equipments

ITEM NO.	TYPE	EQUIPMENT NAME
1	Echo sounder	Seabeat Multibeam Eco sounder
		Raytheon 719C, D
		Ceeducer dual Frequency
2	Heave Compensators	Seatex MRU 5 Motion Sensor
3	Sub Bottom Profilers	GEOPULSE Boomer : Receiver 5420A Power Supply, Allied Acoustic CSP 1000 Power Supply, Sparker CVomb. 1000j, 8 elements Hydrophone, ORE Catamaran/5813BPlate /5210 310 Trans receiver/2x2 Transducer Array.
4	Recorders	EPC 1086, 3200,1600
		Ultra 3710
5	Side Scan Sonar	EG&G 260TH Recorder/272TD Tow fish
		Geo Acoustic Transceiver Edgetech Side Scan
		Imaginex Side scan sonar system
6	USBL	HPR 300 P, Sonardyne
7	Positioning Systems	C-NAV Satellite Positioning System
		TRIMBLE DSM132, NT 300
		Sanjose DGPS
8	CTDS System	Valeport 200M
		SVP Profiler
9	Tide Gauges	Valeport 700/710/ATG740
		MGB-TECH, Ohmex Sonalite
10	Gyro	KVH Fluxgate Compass, S. G. Brown
		Gyro Repeater
		Anschutz Gyro
11	Miscellaneous	Weather Monitoring System Dynalog Anemometer, Nansen Water Sampling Bottle, Laser Distometer.
12	Radio Communication	UHF Dataradio for Telemetry and Data Communication, UHF Reference Station Setup, Teledesign TSI 9600, UHF Amplifier, VHF Teledesign.

### Softwares

SL No.	Software
1	QINSy 7.5
2	Teleyne PDS 2000
3	WINPRO
4	HyPack
5	Geo, Norcom PMS
6	Drone
7	PC PLUS, DOS, Windows OS
8	PROLEC System
9	DTPS , RX Control
10	Wintopo, Winpro

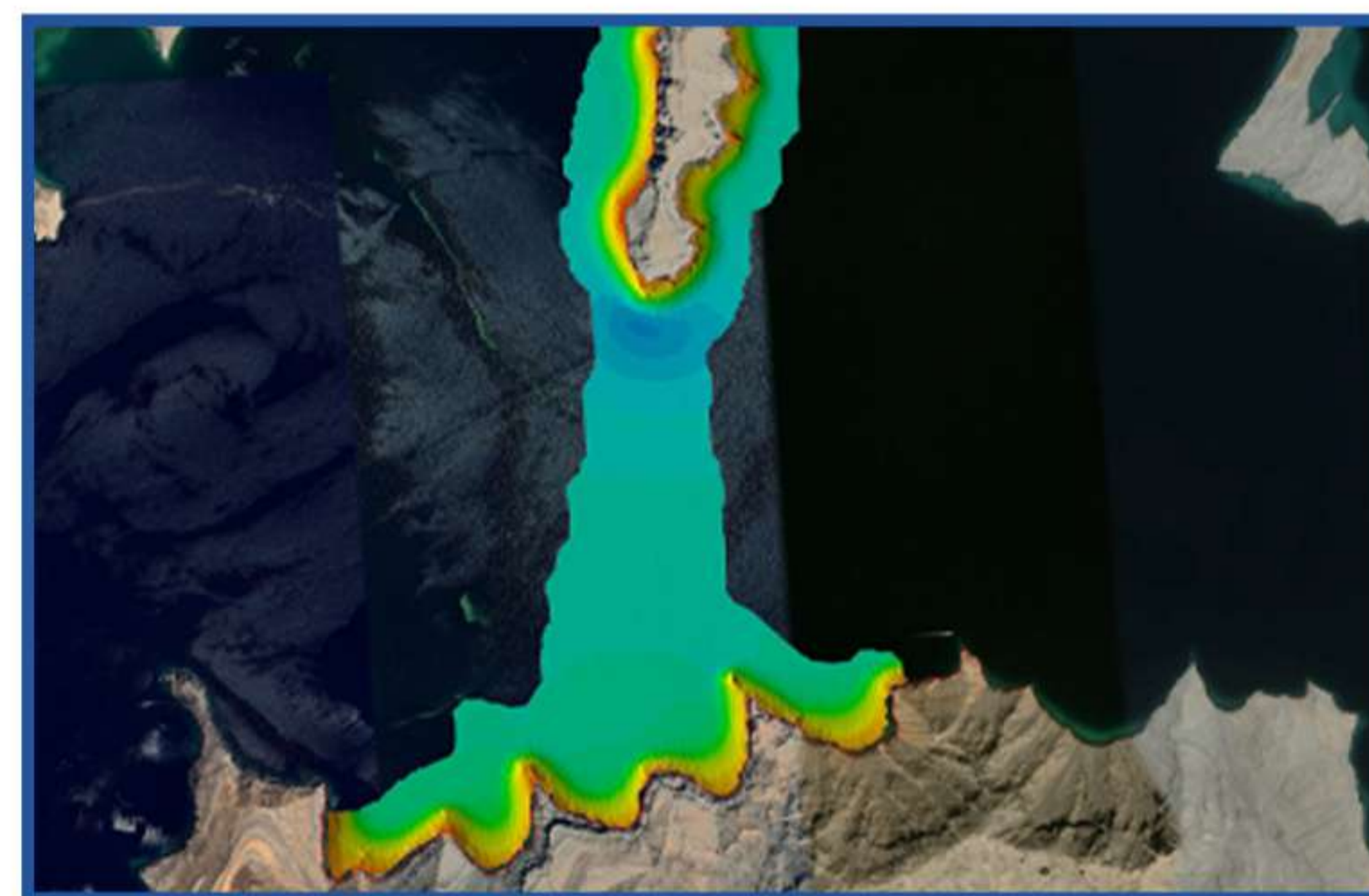
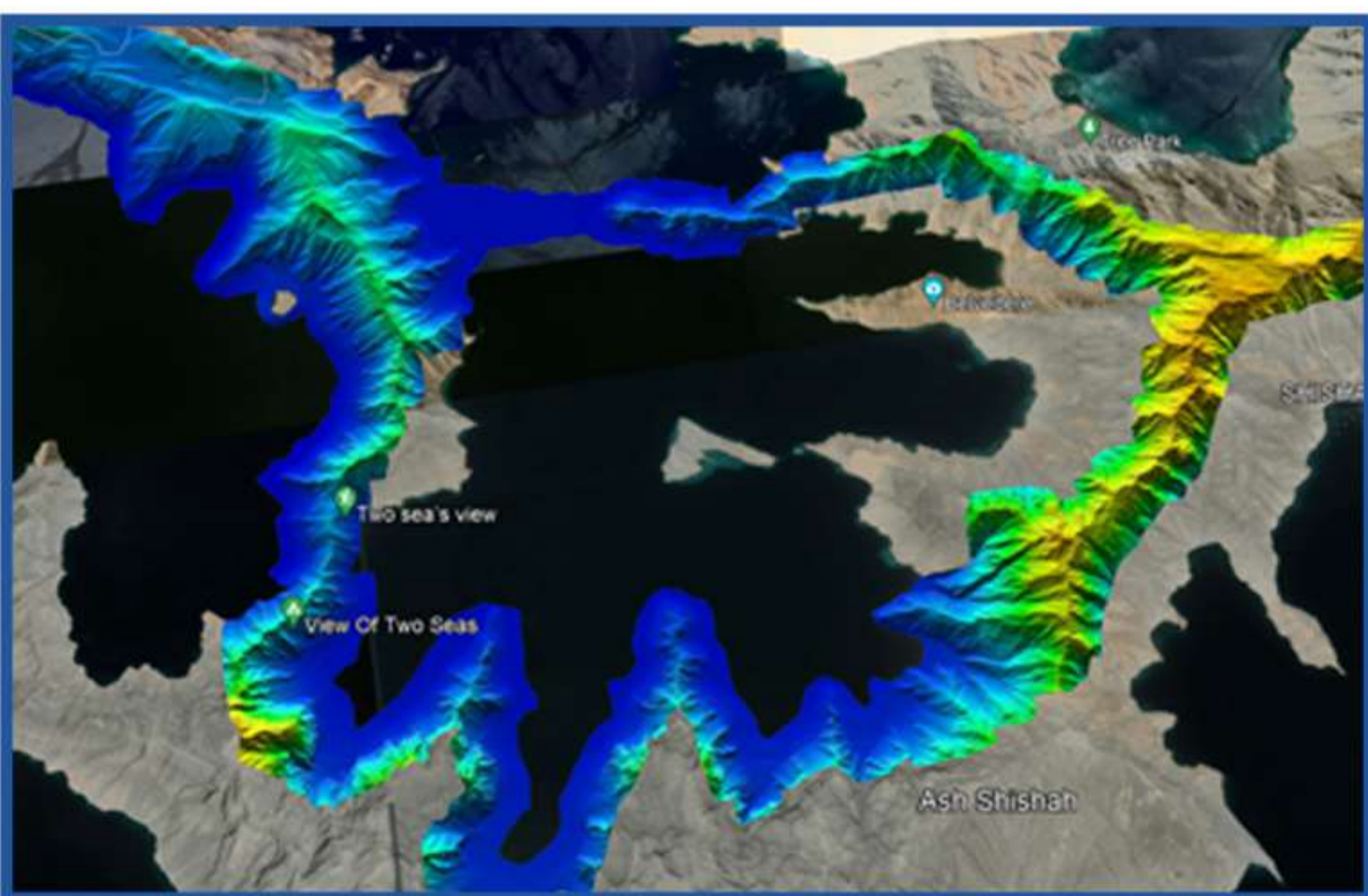
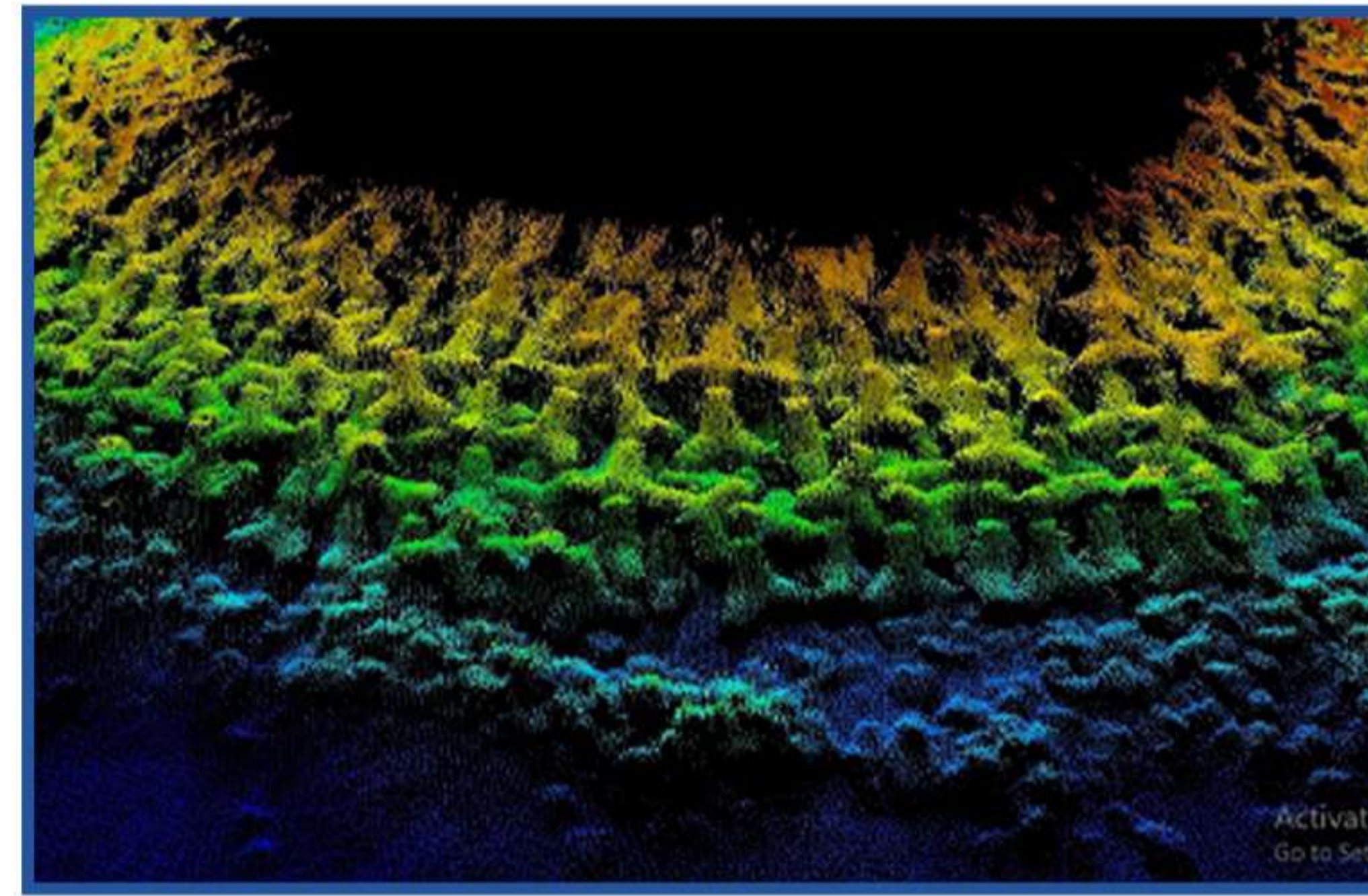
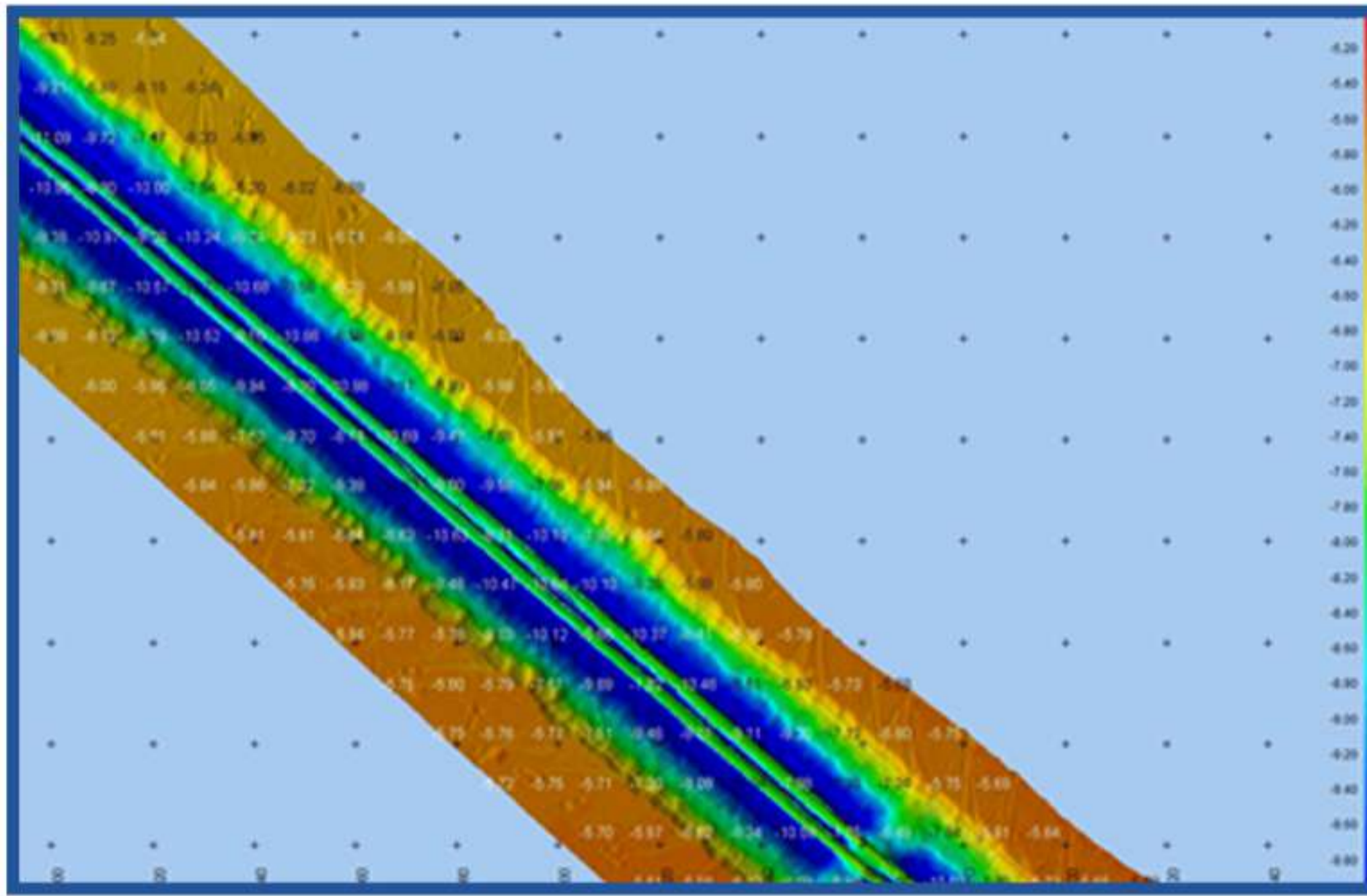


ADCP Profiler



Sidescan

# Hydrographic Survey



## MAJOR PROJECT DETAILS

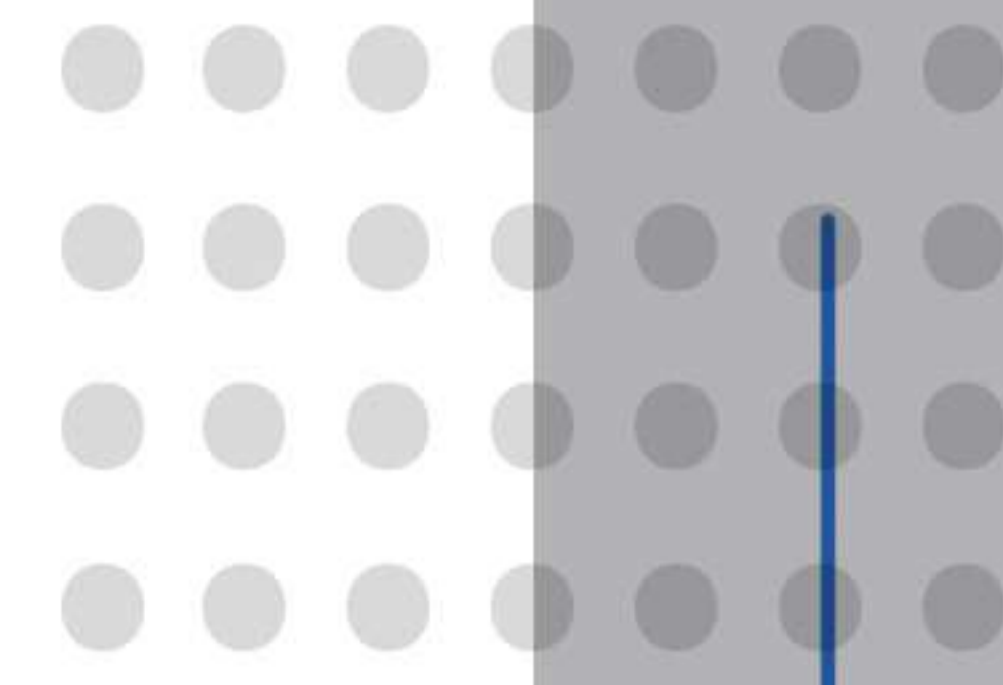
SL NO.	Project name
1	Tender no. 68/2016 – Bathymetric & Topographic Survey for the water intake pipeline for abalone farm in Mirbat, Salalah
2	Bathymetric & Topographic Survey for quarry development project at Khatmat Malaha.
3	Bathymetry Survey for bander Al khairan beach development project.
4	Bathymetry Survey for construction of fisherman jetty, public facilities at Al Bar, Sur.
5	Singlebeam Bathymetric Survey for the mixed use development project at Al Bustan, Muscat Sultanate of Oman.
6	Bathymetry Survey & Multibeam Side Scan for Seeb Harbor & Farm Area.
7	Bathymetric And Hydrographic Survey For Oman LNG New Scw Outfall Project



**Tidemaster**



# UNDERGROUND UTILITY SURVEY



Underground utility surveys using Ground Penetrating Radar (GPR) are essential in detecting and identifying existing subsurface utilities and objects that may intersect with proposed construction activities. These surveys can pinpoint a wide range of buried items including active and dormant lines, both metallic and non-metallic, as well as fiber optic and plastic pipes. Acquiring this information during the design phase ensures accurate calculations, facilitates efficient excavation and leveling, and avoids any disruption to existing underground infrastructure. Moreover, during the construction phase, it prevents unforeseen challenges with pre-existing utilities.

At Gmap, we prioritize the highest quality of service for our clients and adhere to the best standards in performing our underground utility surveys. Our survey methodology combines several techniques:

- Passive Detection using CAT detector with Genny
- Active Detection via Ground Penetrating Radar (GPR)

Our project life cycle typically encompasses:

- Gathering pre-existing as-built data
- Conducting a walk-over survey and visual inspection
- Utilizing the radio detection cable avoidance tool (CAT) paired with Genny
- Implementing Ground Penetrating Radar (GPR) surveys
- Processing GPR data
- Creating as-built survey drawings and producing a comprehensive survey interpretation report

## Equipment used

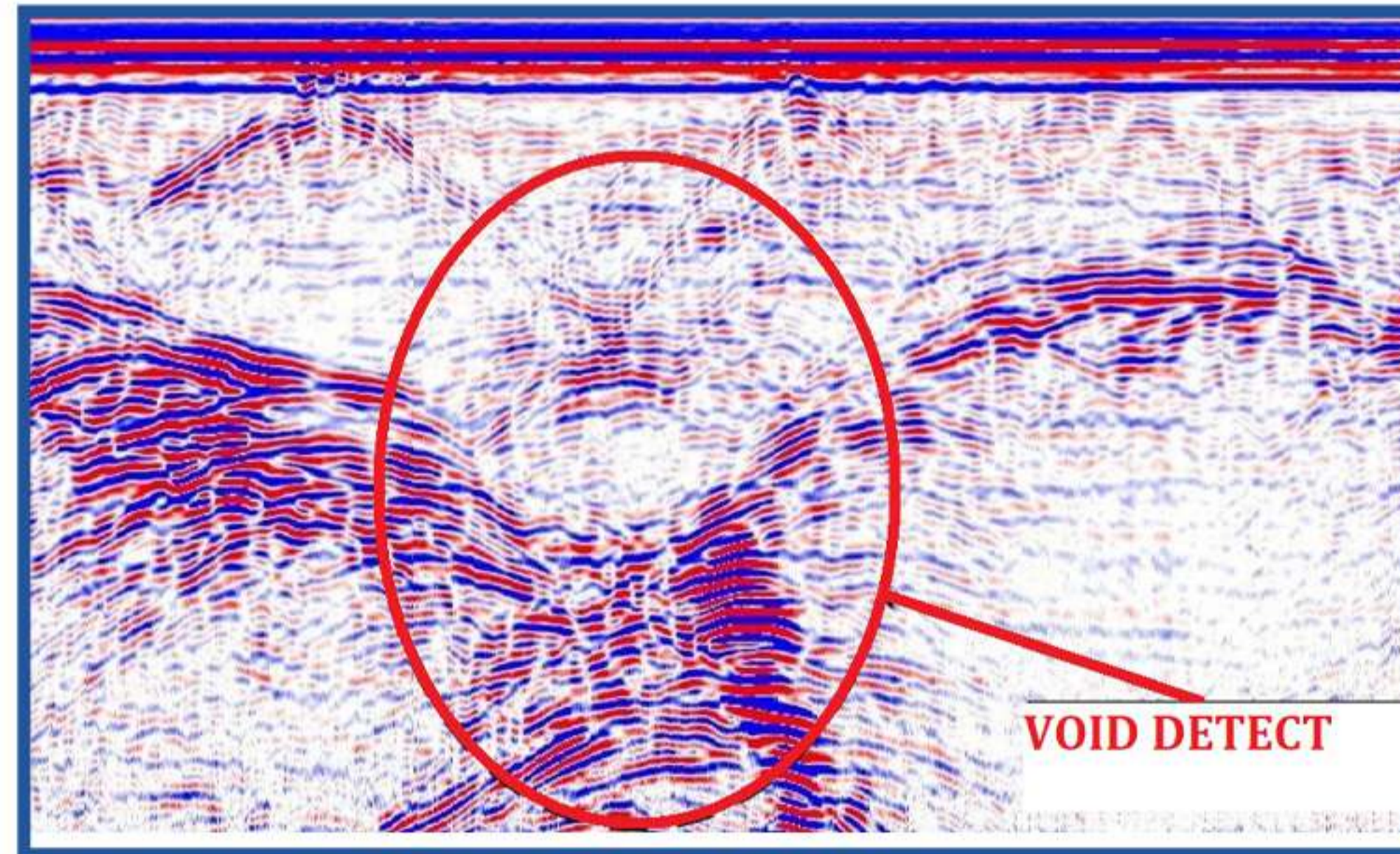
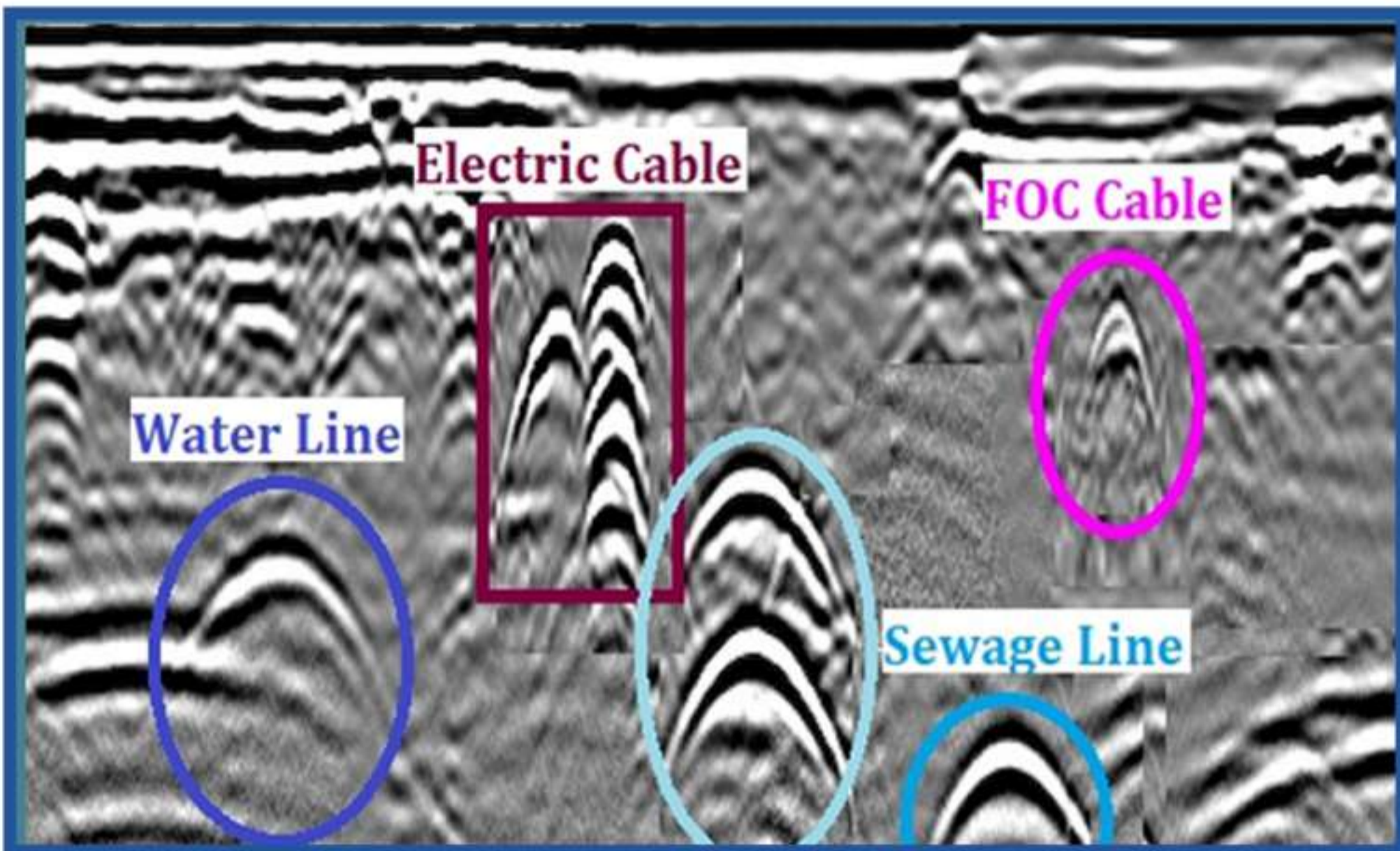
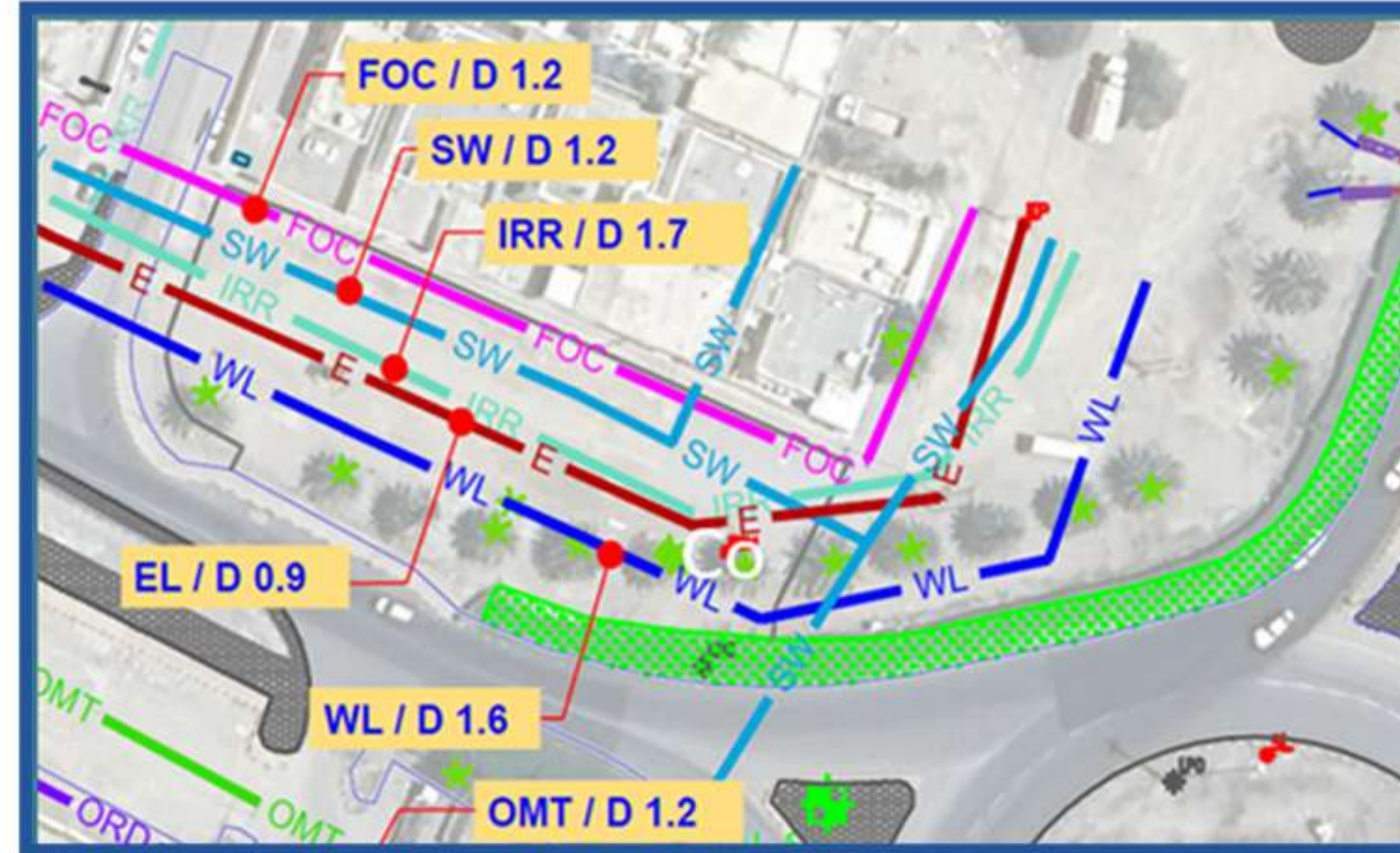
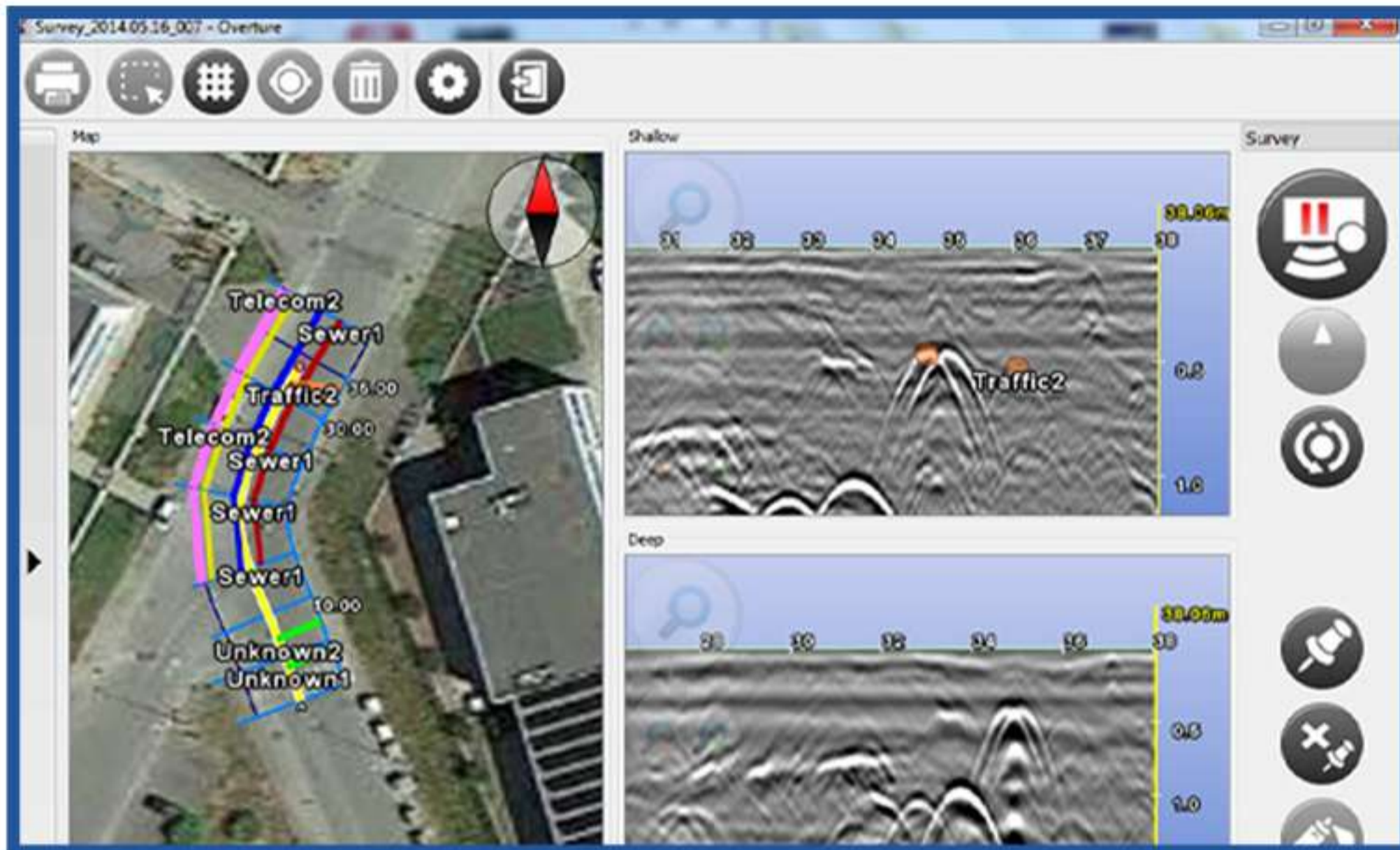
ITEM NO.	DATE OF PURCHASE	ITEM	MODEL NO.	MADE
1	03/03/2013	CAT 4 CABLE DEETECTOR	CAT 4	U.S.A
2	03/03/2013	SIGNAL INDUCTOR	GENNY 4	U.S.A
3	06/08/2018	GROUND DETECTION RADAR	LEICA DS 2000	SWITZERLAND

## Software's used

SL No.	Software
1	Trimble Business Center 5.2
2	ArcGIS 10.7
3	Leica Ouverture 1.3
4	Unext
5	GPR Sclice



# UNDERGROUND UTILITY SURVEY



## MAJOR PROJECT DETAILS

SL NO.	Project name
1	Topographic & Underground Utility Survey Debottlenecking Project At Sur LNG.
2	Underground Utilities Survey - OIng-Slit Trench And Site Work For Hv Transformer Firewall Protecting.
3	Topographic route Survey & Underground Utilities Survey for Mina Al Fahl Pdo phase-5a master plan development project.
4	Topographic route Survey & Underground Utilities Survey for proposed irrigation network connection from existing has at Sur to new school.
5	Underground Utilities Survey for design of dual carriageway road for nr-32 phase-1 at Duqm.
6	Underground Utilities Survey at raysut cement plant area at Salalah.
7	Underground Utilities Survey At Mawelah Omanoil Petrol Station Site.
8	Underground Utilities Survey at Sinaw Petrol Station.
9	Underground Utilities Survey at Al Awabi.
10	Underground Utilities Survey at Al Khuwair.
11	Underground Utility Survey For The Park In Salalah.
12	Underground Utility Survey for the plots for HH Ali Ahmed Al Busaidi.
13	GPR Survey For Al Ghubra Iii Iwp - Ro Dasalination Plant Project.



# LAND SURVEY

## 1. Topographic Survey

Topographic surveys identify the three-dimensional positions of specific points and the distances and angles separating them. The primary purpose of such surveys is to create detailed maps or plans, crucial for the conceptualization and implementation of various engineering projects. Using advanced tools such as reflector-less Total Stations and RTK GPS, we cater to diverse clients, ranging from Consulting Engineers and Architects to Government Departments and Infrastructure Developers.

## 2. Contour Survey

Contour surveys focus on determining ground elevations and plotting them on a map using contour lines. These lines connect points of similar elevation and offer an intricate view of the terrain's layout. Our meticulous data collection techniques enable us to draft detailed contour maps, instrumental for assessing earthwork quantities for upcoming projects.

## 3. Route Survey

Route surveys help in selecting the optimal path between two points, commonly used for establishing utility lines or roads. Such surveys typically cater to government entities or utility companies when planning a new road or securing an easement. We offer comprehensive design services, including plan and profile drafts, and suggest the most suitable road alignments, all available on the AutoCAD platform in line with prevailing design standards.

## 4. GPS Control Survey

Employing high-precision, survey-grade GPS receivers, the GPS control survey pinpoints accurate horizontal and vertical coordinates for distant locations. Even without direct line-of-sight between ground points, this method allows for precise measurements across diverse terrains, covering expansive areas efficiently. Whether it's defining boundaries, mapping existing features, or planning construction sites, our GPS tools are up to the task. All our surveys come with fixed concrete reference points tailored to client specifications.

### I. RTK & Geodetic Networking Survey Instruments

ITEM NO.	DATE OF PURCHASE	ITEM	SERIAL NO.	MODEL NO.	MADE
1	12/5/2008	GPS 5700 BASE	220412749	5700/63592-00	USA
2		GPS ANTINA	60233431	ZEPHYR GEODETTIC	USA
3		GPS 5800 ROVER	4810146738	5800/53618-44	USA
4		TSC-2 CONTROLLER	SS 5565C21959	-	USA
5		GPS RADIO	06511890	PDL4335	USA
6	17/2/2009	R8 ROVER	4835156464	R8 MODEL 2/60250-64	USA
7		TSC2 CONTROLLER	SS 84C37179	-	USA
8	7/9/2009	TSC2 CONTROLLER	SS 84C37431	-	USA
9	11/11/2009	R8 BASE/ROVER	4911167039	R8 MODEL-3	USA
10		R8 ROVER	4906164666	R8 MODEL- 3/67250-64	USA
11		TSC2 CONTROLLER	SS 84C36301	-	USA
12	23/06/2012	GPS RADIO	09243348	PDL-4335	USA
13		R8 ROVER	5135472205	R8 MODEL-3	USA
14		TSC2 CONTROLLER	SSB7C60882	-	USA
15		R8 BASE/ROVER	5235495312	R8 MODEL-3	USA
16	8/02/2013	R8 BASE/ROVER	5243498799	R8 MODEL-3	USA
17		GPS RADIO	SS 84C36301	TDL-450	USA
18		TSC3 CONTROLLER	-	-	USA

### II. Total Station

ITEM NO.	DATE OF PURCHASE	ITEM	MODEL NO.	MADE
1	8/10/2008	SOKKIA TOTALSTATION	SET 510	JAPAN
2	9/8/2009	LEICA TOTALSTATION	TC 1202	SWITZERLAND
3	15/4/2008	TOPCON	GPT-7501	JAPAN
4	7/3/2011	SOKKIA TOTALSTATION	SET 550	JAPAN
5	20/5/2011	TOPCON	GPT-7502LP	JAPAN
6	19/7/2012	LEICA TOTALSTATION	BUILDER503	SWITZERLAND
7	24/5/2013	LEICA TOTALSTATION	BUILDER503	SWITZERLAND
8	22/6/2013	SOKKIA TOTALSTATION	CX-105/S	JAPAN
9	29/7/2013	LEICA TOTALSTATION	BUILDER503	SWITZERLAND
10	14/11/2013	LEICA TOTALSTATION	BUILDER503	SWITZERLAND
11	09/08/2017	TRIMBLE TOTAL STATION	TRIMBLE M3	USA

### III. Levelling Instrument

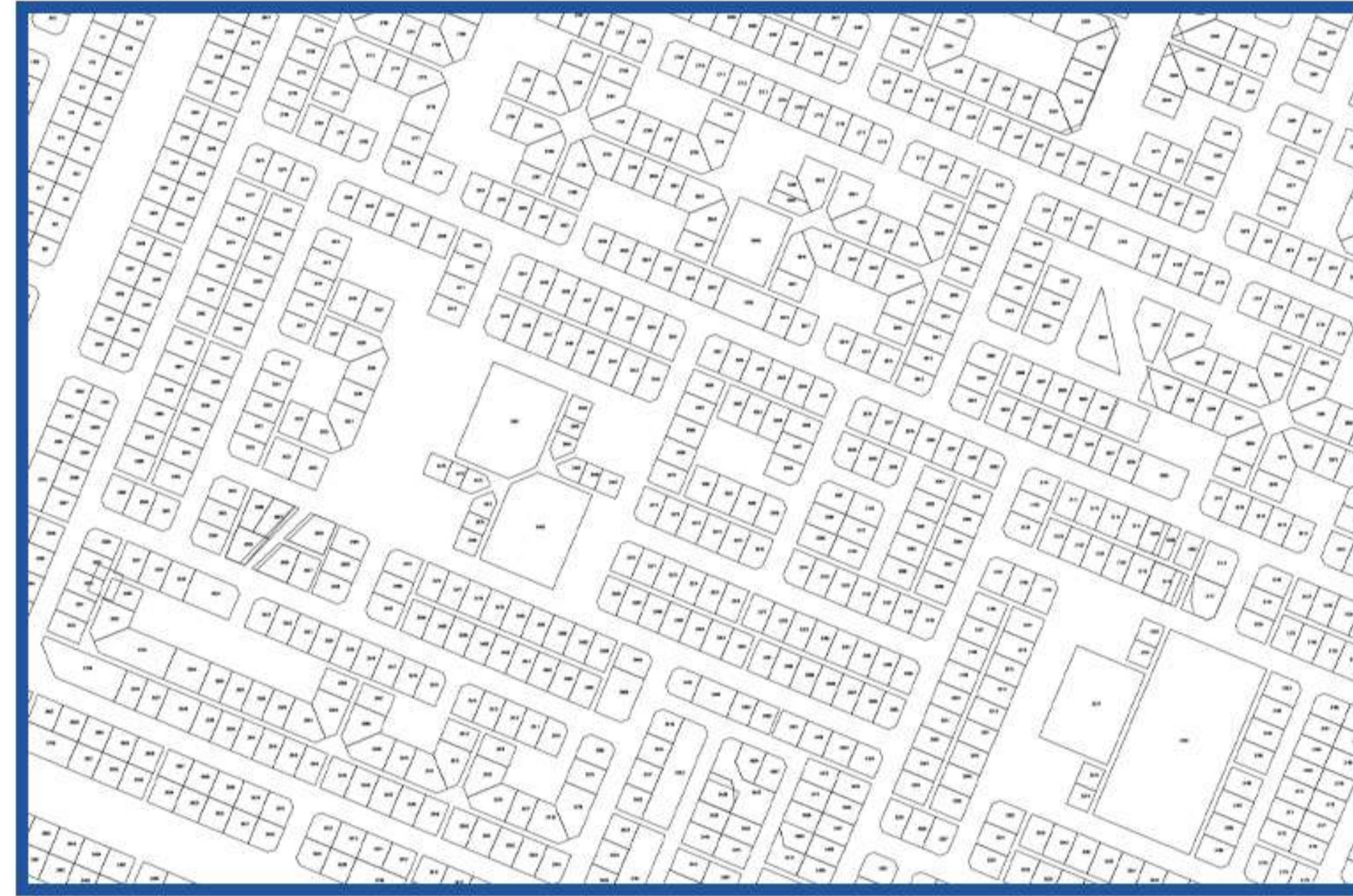
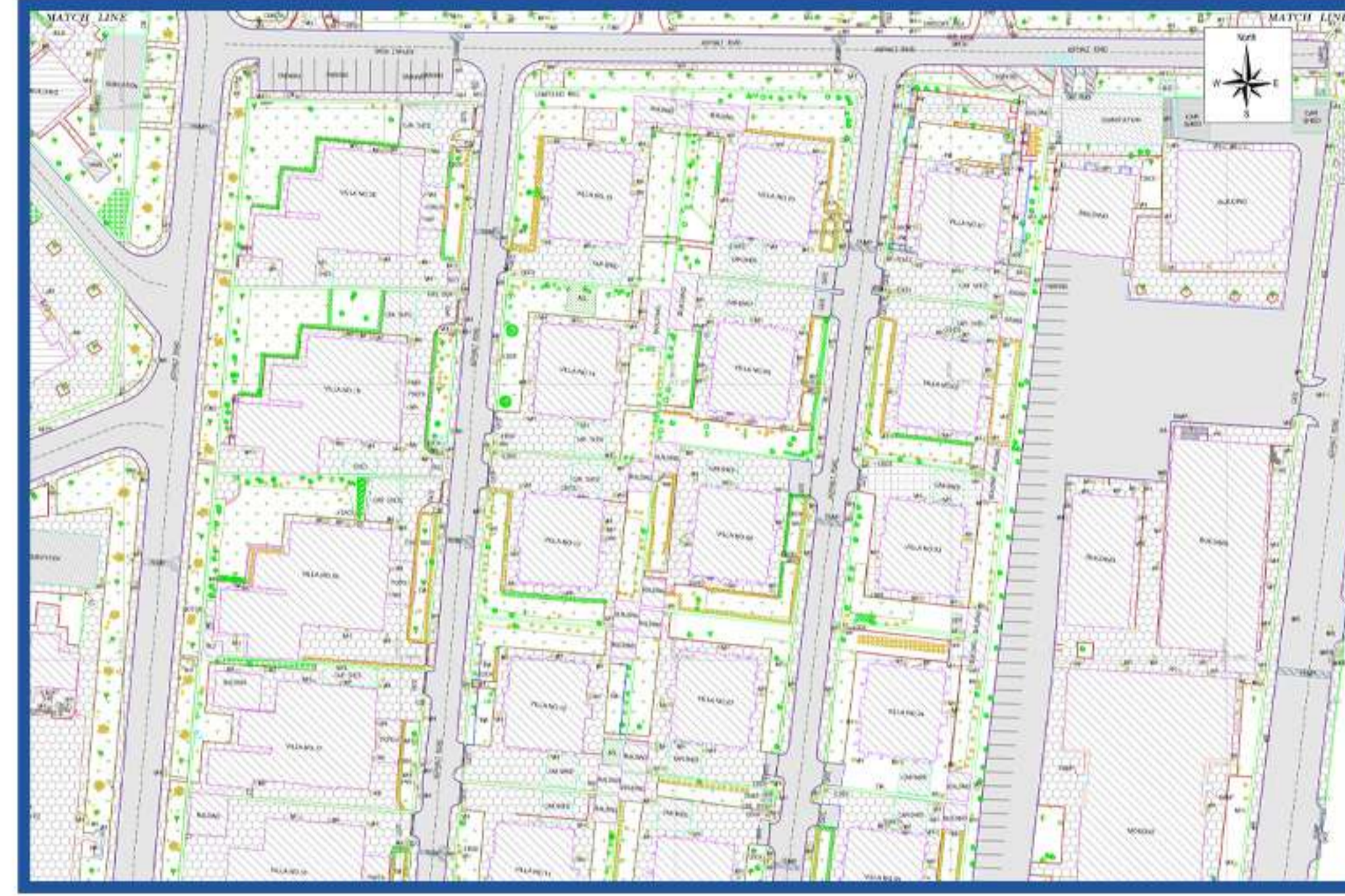
ITEM NO.	DATE OF PURCHASE	ITEM	MODEL NO.	MADE
1	8/10/2008	SOKIA	S-310	JAPAN
2	24/9/2011	SOKIA	S-310	JAPAN
3	27/07/2013	LEICA	-	SWITZERLAND

### Software's used

ITEM NO	ITEM	PURPOSE	QUANTITY
1	AUTO CAD	DRAWING	1
2	CIVIL 3D 2020	DESIGN	1
3	LAND DEVELOPMENT DESKTOP	DESIGN	1
4	TRIMBLE BUSINESS CENTER	NETWORK PROCESSING	1
5	TRIMBLE GEOMATICS OFFICE	DATA PROCESSING	1
6	PROLINK	DATA PROCESSING	1
7	LEICA GEO OFFICE	DATA PROCESSING	1
8	TOPCONE LINK	DATA PROCESSING	1
9	ARCGIS DESKTOP	DATA PROCESSING	1



# LAND SURVEY



## MAJOR PROJECT DETAILS

SL NO.	Project name
1	Topographic & pipeline route survey for portable water transmission project at Al Sharqiyah Region.
2	Topographic & pipeline route survey for portable water transmission project at Ad Dhahirah Region.
3	Topographic Survey for consultancy services for Duqm infrastructure development.
4	Topographic Survey for tourism development project at Ras Al Hadd.
5	Topographic Survey for sea port development project at khasab.
6	Topographic survey for new mining location at khasab.
7	The framework contract for Topographic Survey of Shell service- stations in the sultanate of Oman (5 years contract).
8	The framework contract for Topographic Survey of Al Maha Petrol service- stations in the Sultanate of Oman (3 years contract).
9	Setting out, final and map updating Survey of well sites locations for Rima satellites small fields at block-6 near Rima field (5 years contract).
10	Topographic Survey & quantity calculation of mining concession areas at various places in Sultanate of Oman.
11	Setting out Survey for installation of Transponders in Crane runways area at Duqm Port.
12	Topographic Survey For The Mixed Use Development Project At Al Bustan, Muscat, Sultanate Of Oman.
13	Topographic Route Survey As Part Of Replacement Of 16" Murayrat -Wadi Jizzi Pipeline Buckled Section.
14	Meo/ 70-020 - Well Positioning Dgps – Mafraq Block 70.
15	Topographical Survey For The Qurm Commercial District.





# GIS Mapping

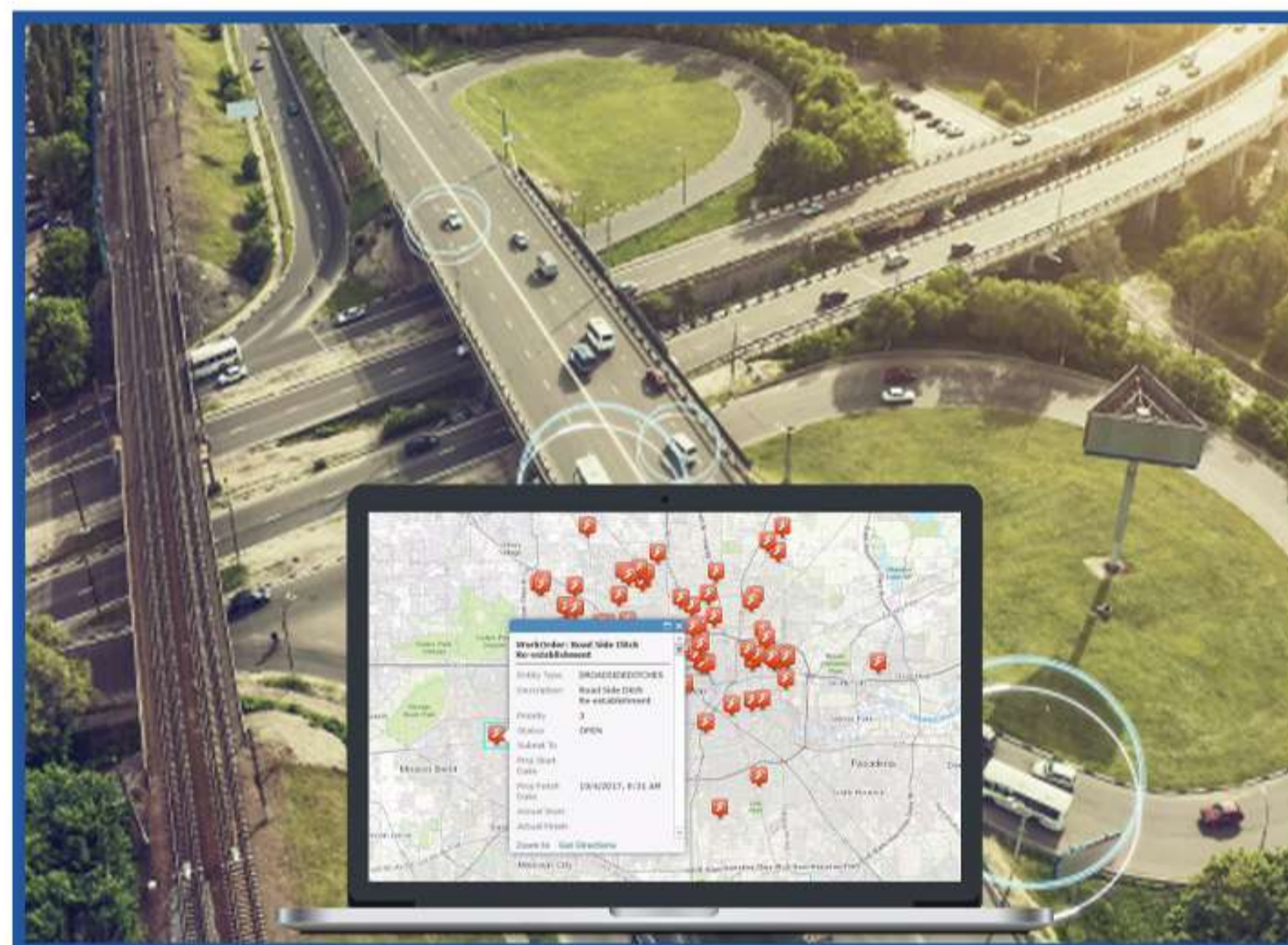
At G MAP, we leverage advanced GIS technologies to deliver critical planning data for a wide range of sectors, from Building Information Modelling (BIM) and Land Use to Transportation and Utilities, among others. We harness the analytical capabilities of GIS for diverse spatial analyses and modelling tasks.

## Our key services include:

- Asset Management
- Utilities in Oil & Gas and Water
- Electric Utility Mapping
- Building Information Modelling (BIM)
- Service Territory Mapping
- 3D Terrain Visualization
- Coastal Regulation Zone Illustration
- Land and Property Management Systems
- Conversion from CAD to GIS

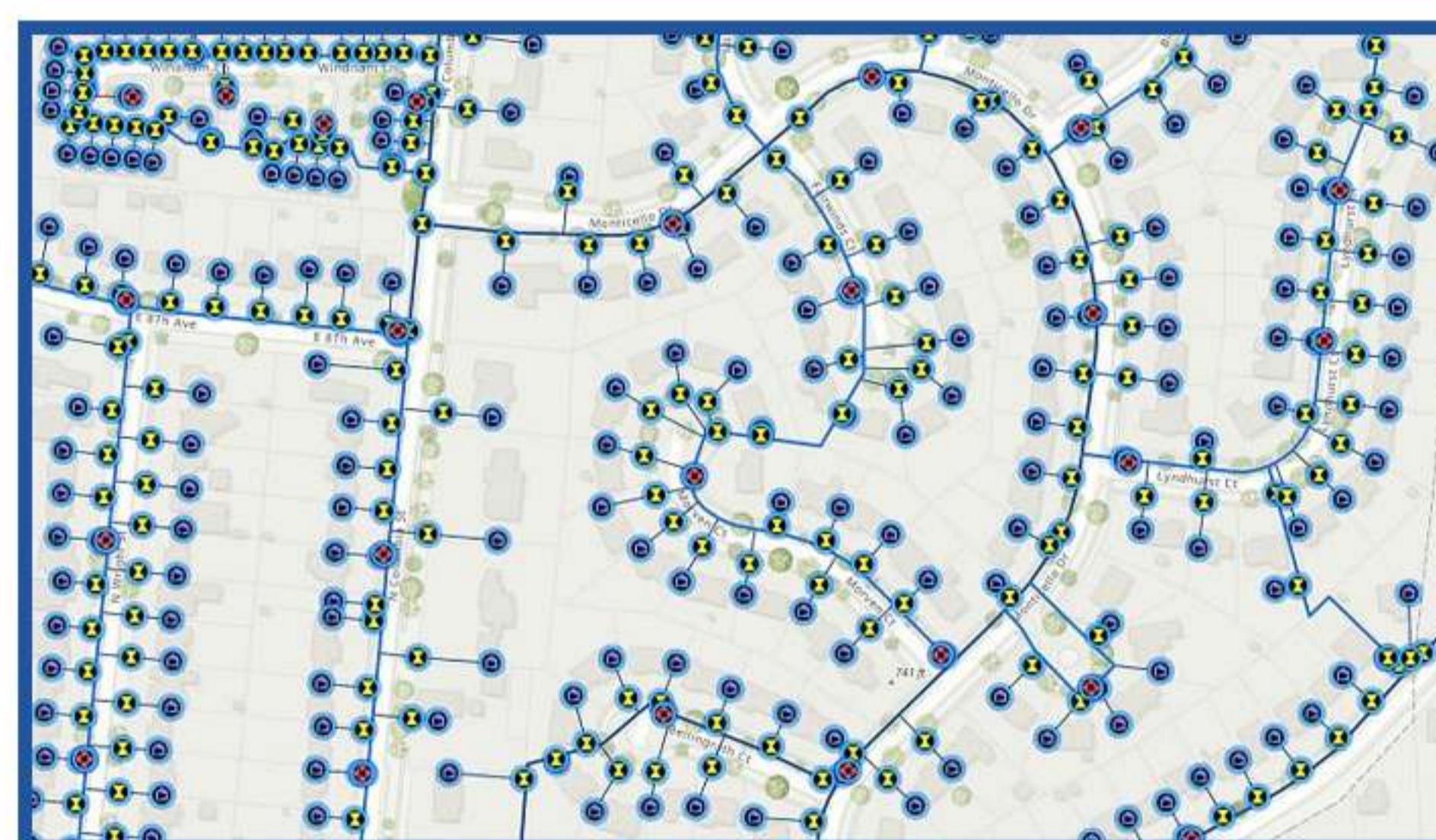
## Asset Management

At G MAP, we specialize in creating GIS-integrated Enterprise Asset Management system data models. By basing these models on asset IDs within our spatial database, we provide a comprehensive Geodatabase representation of all existing attributes. Our system empowers clients to spatially oversee their capital infrastructure, ensuring cost-efficiency in ownership, operation and maintenance, all while adhering to high service standards. Moreover, we offer advanced mobile mapping solutions, equipping pipeline operators to either develop or enhance their GIS data accuracy.



## Oil & Gas/Water Utilities

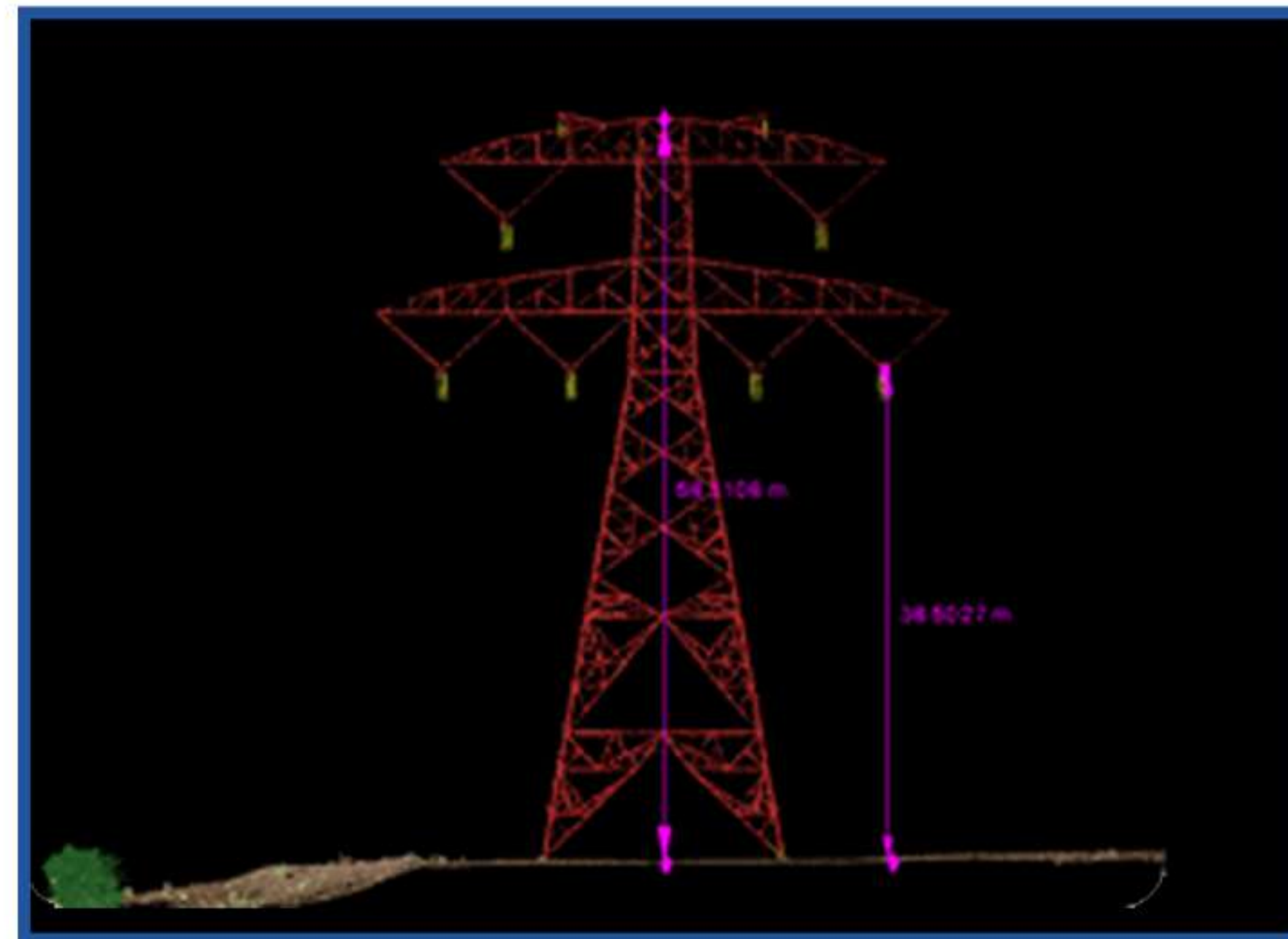
As an ISO-certified establishment, G MAP ensures our clients receive spatially precise GIS representations of their Oil, Gas, Water, and Sewer utility networks. This precision enhances utility efficiency and drives informed decision-making. We take utility data and convert it into meaningful insights, revolutionizing the operation of Gas & Oil/Water networks. Recognizing the unique challenges faced by pipeline utility enterprises, we collaborate to efficiently map, model, manage and maintain their expansive facilities and networks. This is all centralized within a singular GIS-integrated database, aiming to meet the evolving needs of customers and adhere to industry regulations.



# GIS Mapping

## Electric Utilities

G MAP delivers top-tier Electric distribution network mapping, covering the entirety of their service territories. These maps are indispensable tools for construction and maintenance activities, serving as primary references for upkeep planning and pinpointing specific locations. Utilizing these maps, organizations can efficiently handle outages, ensure safety and compliance, reduce expenses, and elevate customer satisfaction levels.



## Building Information Modelling

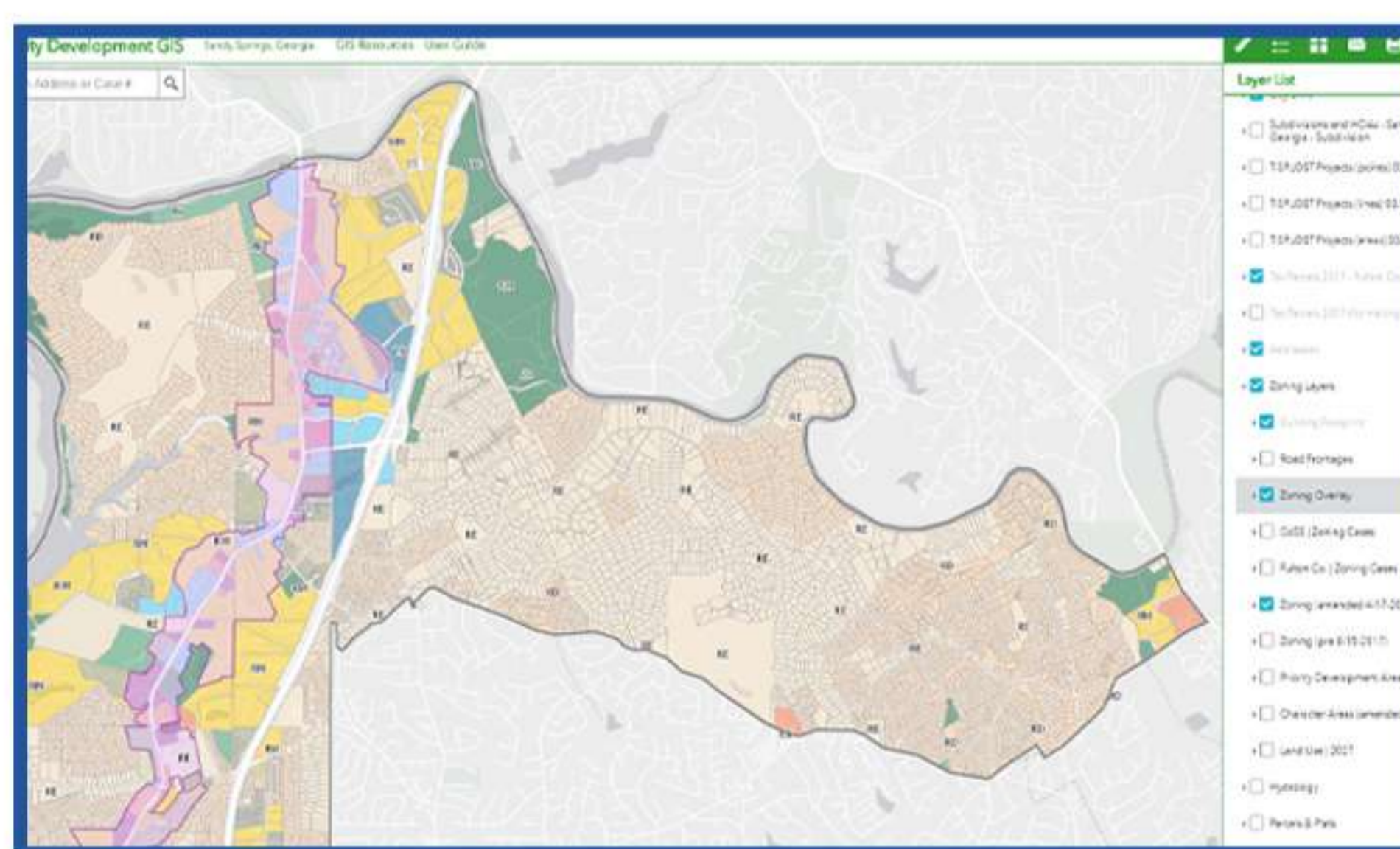
BIM stands as a smart, model-driven procedure that offers insights for planning, designing, building, and overseeing infrastructure and buildings. At G MAP, our BIM mapping seamlessly integrates Lidar and GIS technologies. This synergy:

- Minimizes the need for manual scrutiny of 2D illustrations.
- Efficiently flags design discrepancies and omissions
- Facilitates automated quantity assessments.
- Streamlines facility management.



## Service Area Mapping

G MAP specializes in charting service territories, incorporating relevant demographic details to provide a comprehensive view.



## 3D Terrain Modelling

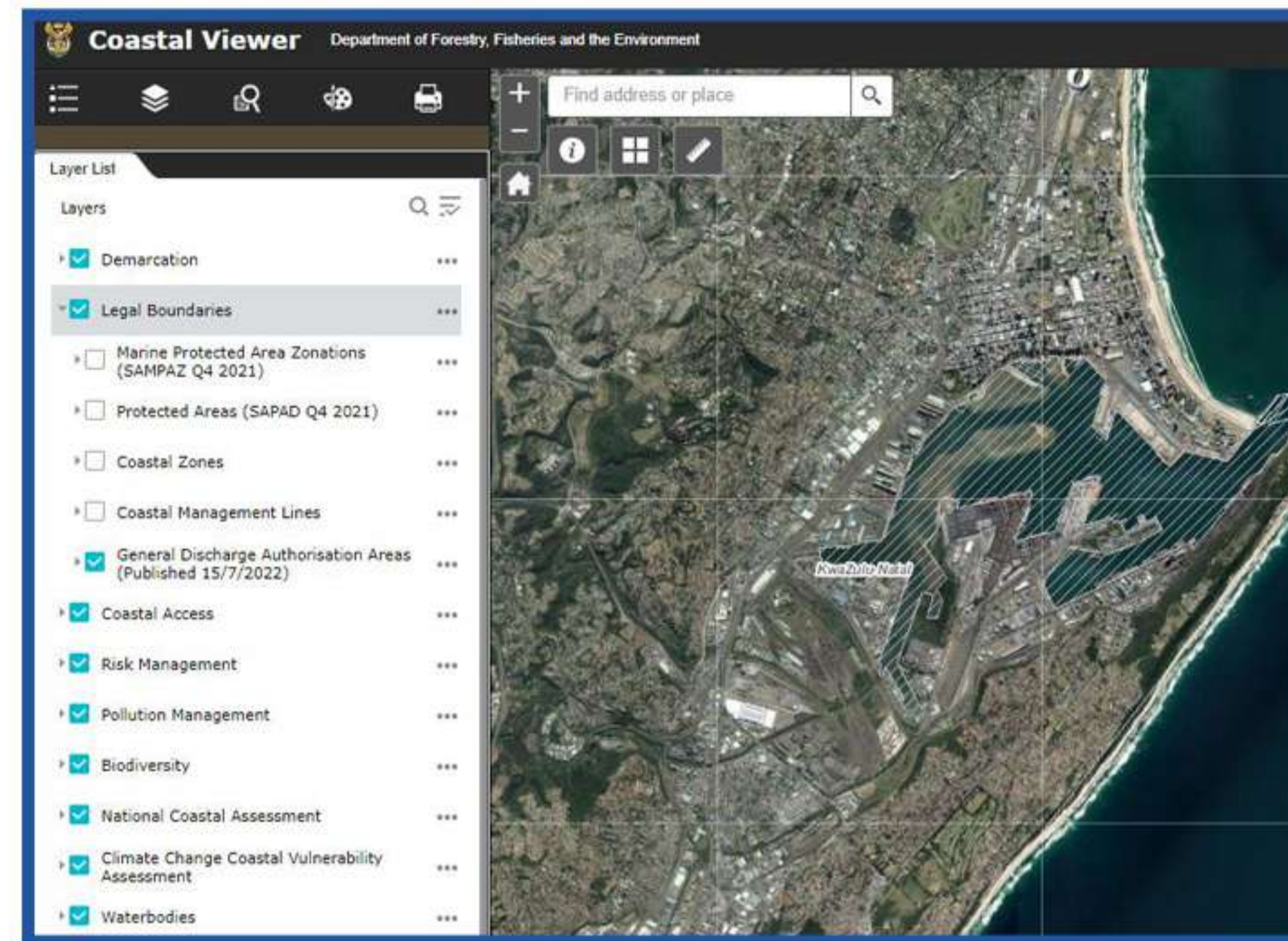
G MAP crafts high-definition 3D terrain visualizations derived from the Digital Elevation Model (DEM). These models are invaluable for an array of applications, including but not limited to, visibility assessments, line-of-sight predictions, engineering schematics, construction tasks and preliminary planning for corridor surveys.



# GIS Mapping

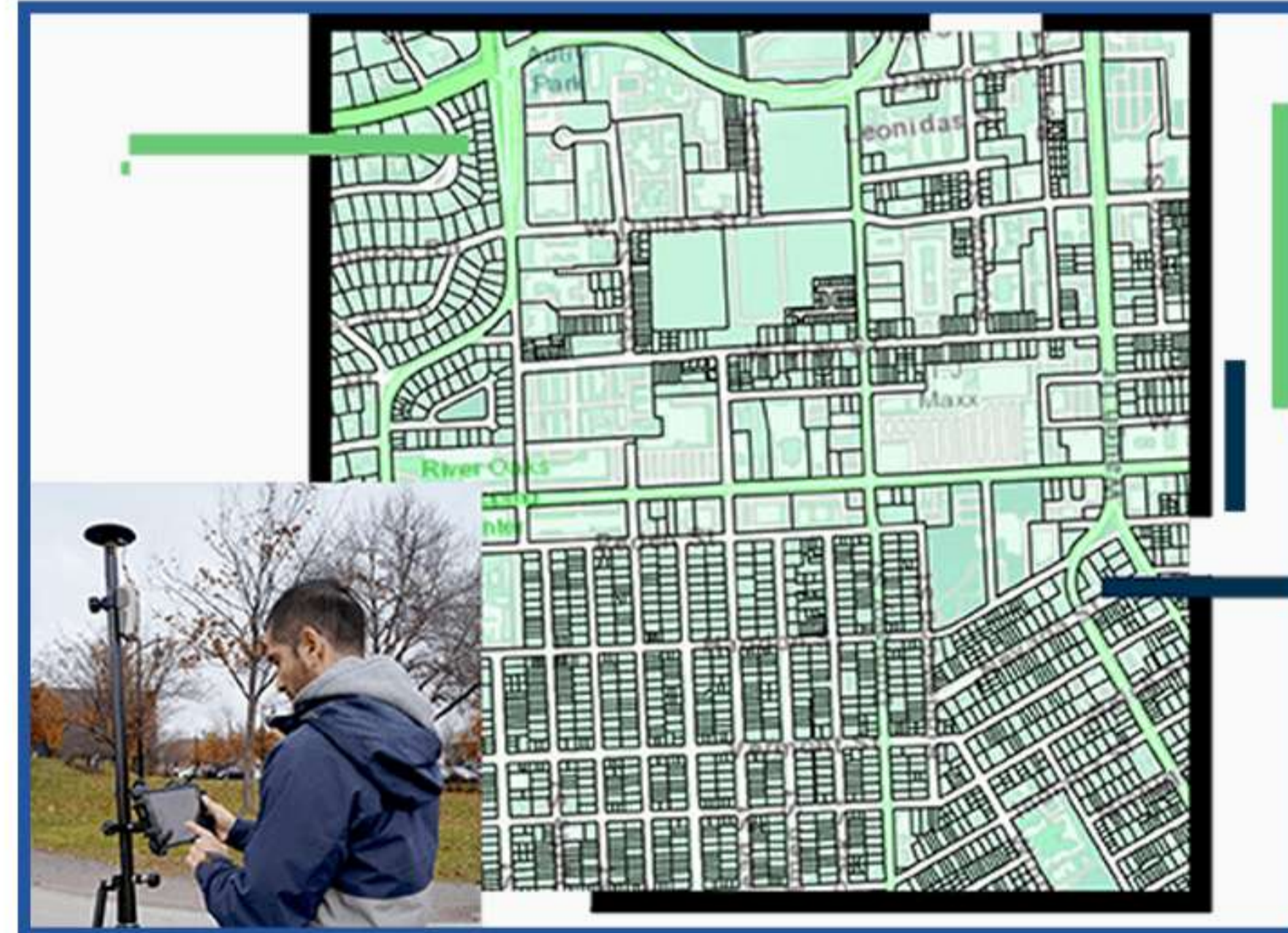
## Coastal Regulation Zone Mapping

G MAP offers Coastal Regulation Zone (CRZ) mapping services, establishing a spatial blueprint for Coastal Zone Management Plans (CZMP). This delineates boundaries around environmentally sensitive areas to limit nearby developments and activities.



## Land & Property Management System

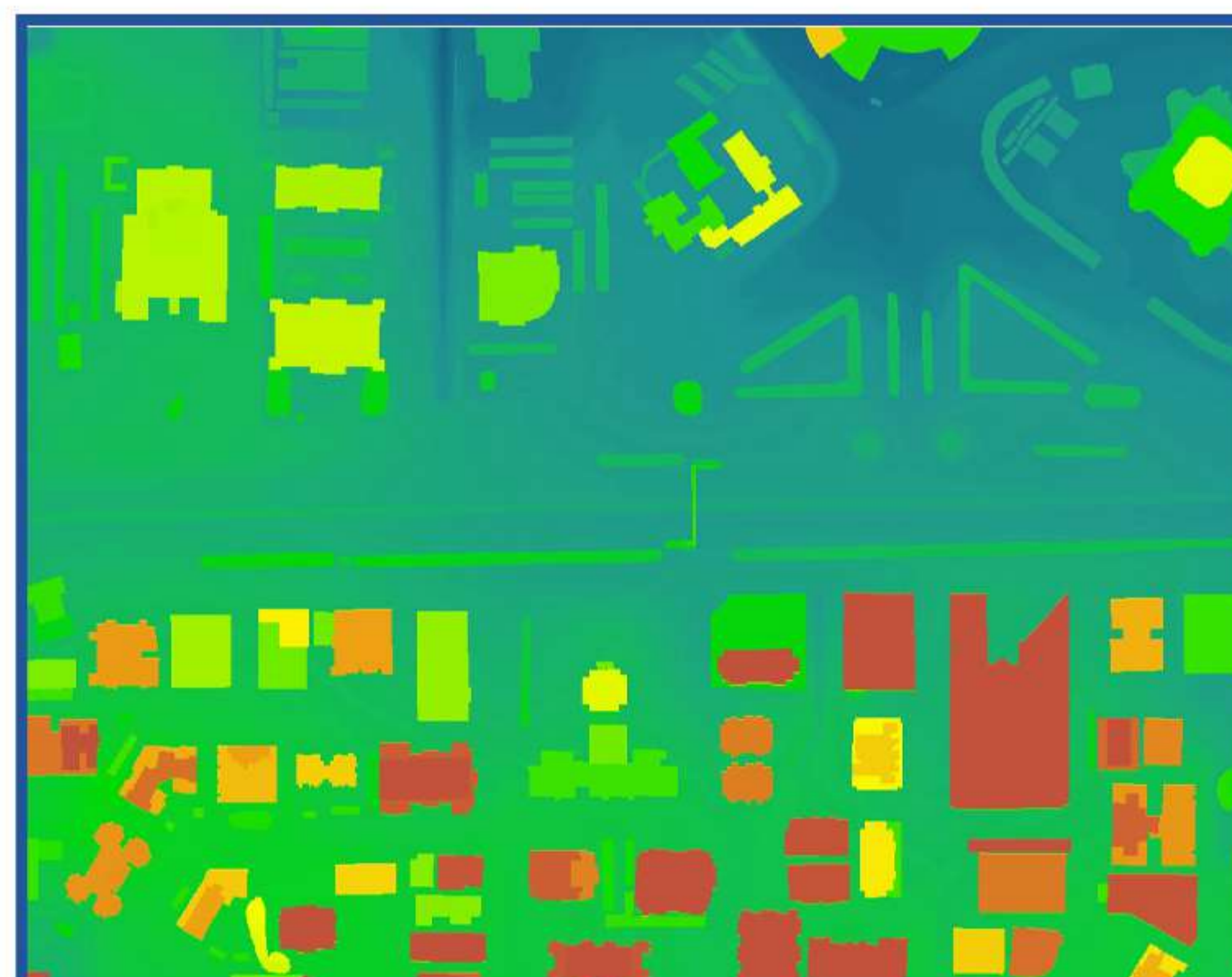
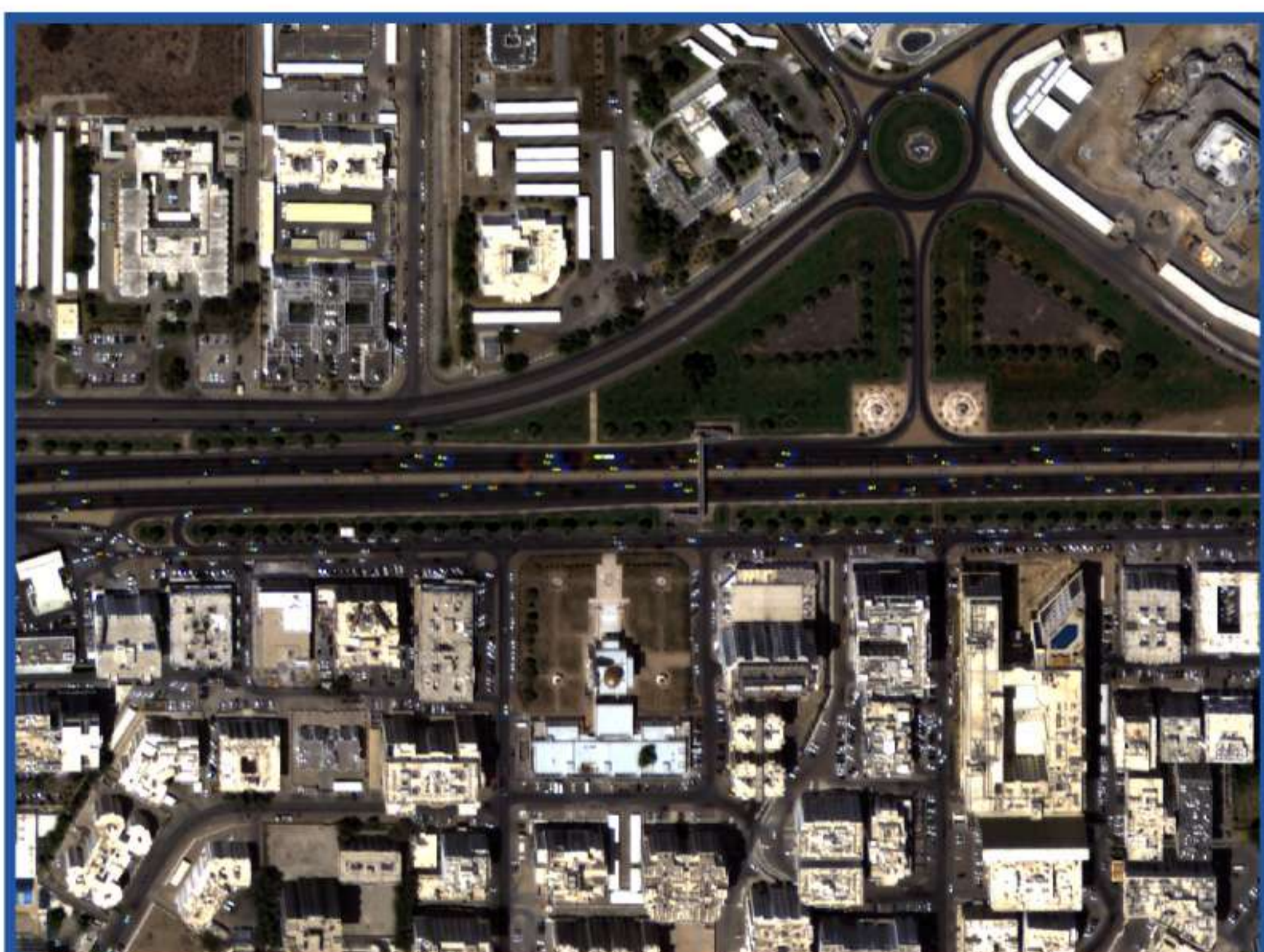
G MAP specializes in Parcel mapping, which showcases land, property and ownership details. This aids in property evaluations for specific scenarios. Our system efficiently manages a precise record of real estate, gauges the value of land and its enhancements, pinpoints ownership details, and conveys land-use and zoning guidelines.



# Satellite Imaging

## Advancing Urban and Infrastructure Mapping through State-of-the-Art Satellite Image Classification.

Satellite image-based Photogrammetry offers a breakthrough approach in the realm of geospatial applications. This technique raises the bar for accuracy, efficiency, and flexibility. As urban and spatial mapping continues to evolve, the need for precision and efficiency grows. Merging satellite imagery with cutting-edge machine learning techniques reveals numerous advantages, including high-precision 3D mapping, swift data capture of ever-changing environments and discreet remote sensing. Adopt this technology to revolutionize your understanding and engagement with your field, uncovering insights that pave the way for a smarter, better-informed future.



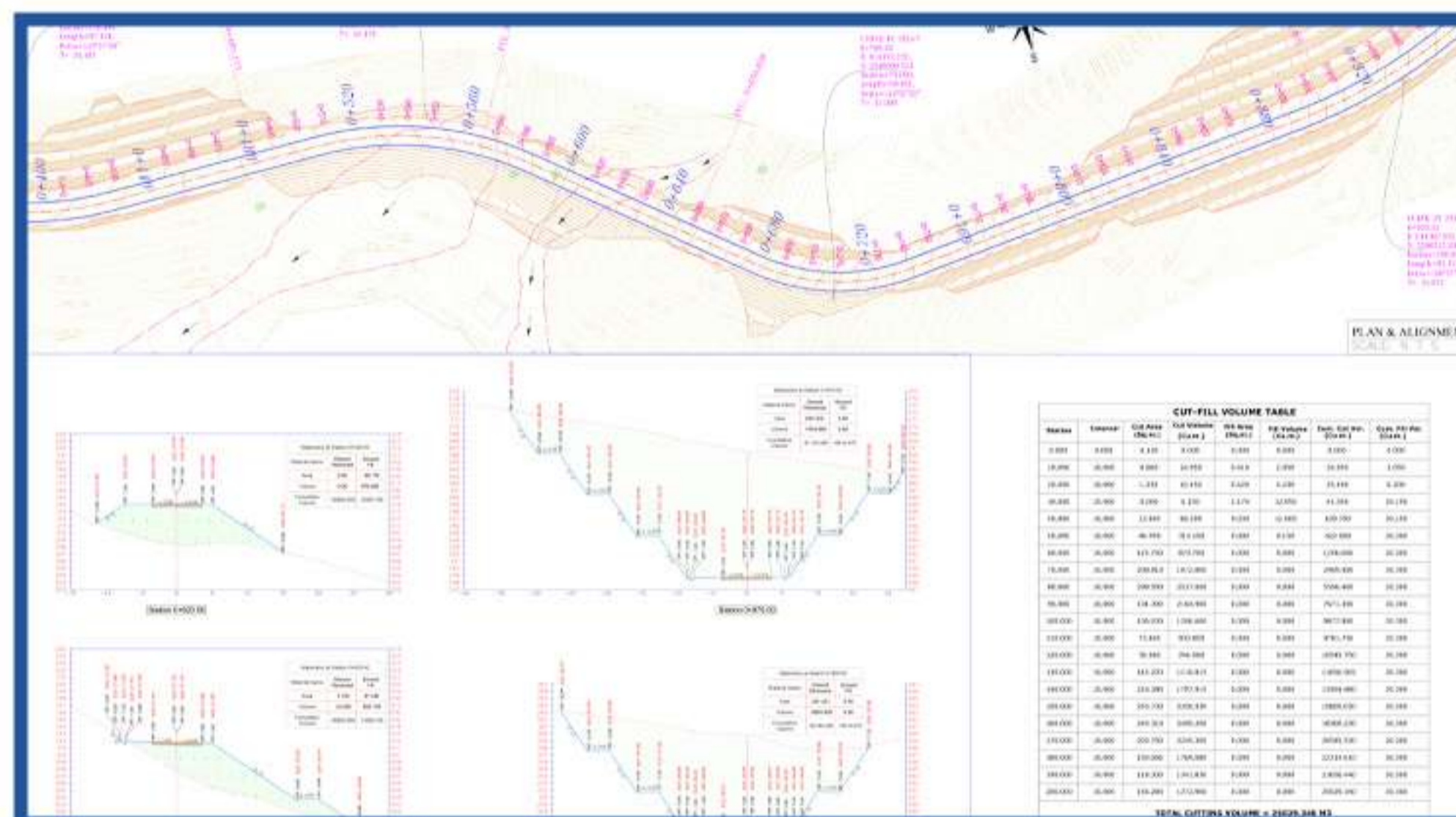
# CAD Services

G map stands at the forefront of delivering top-tier Design and CAD solutions to the industry. Renowned for our exceptional standards, we offer a broad range of services customized to meet your requirements. Whether it's road design or mine planning, we are dedicated to providing innovative strategies that enhance both commercial and residential undertakings.

## Our Wide Range of Services:

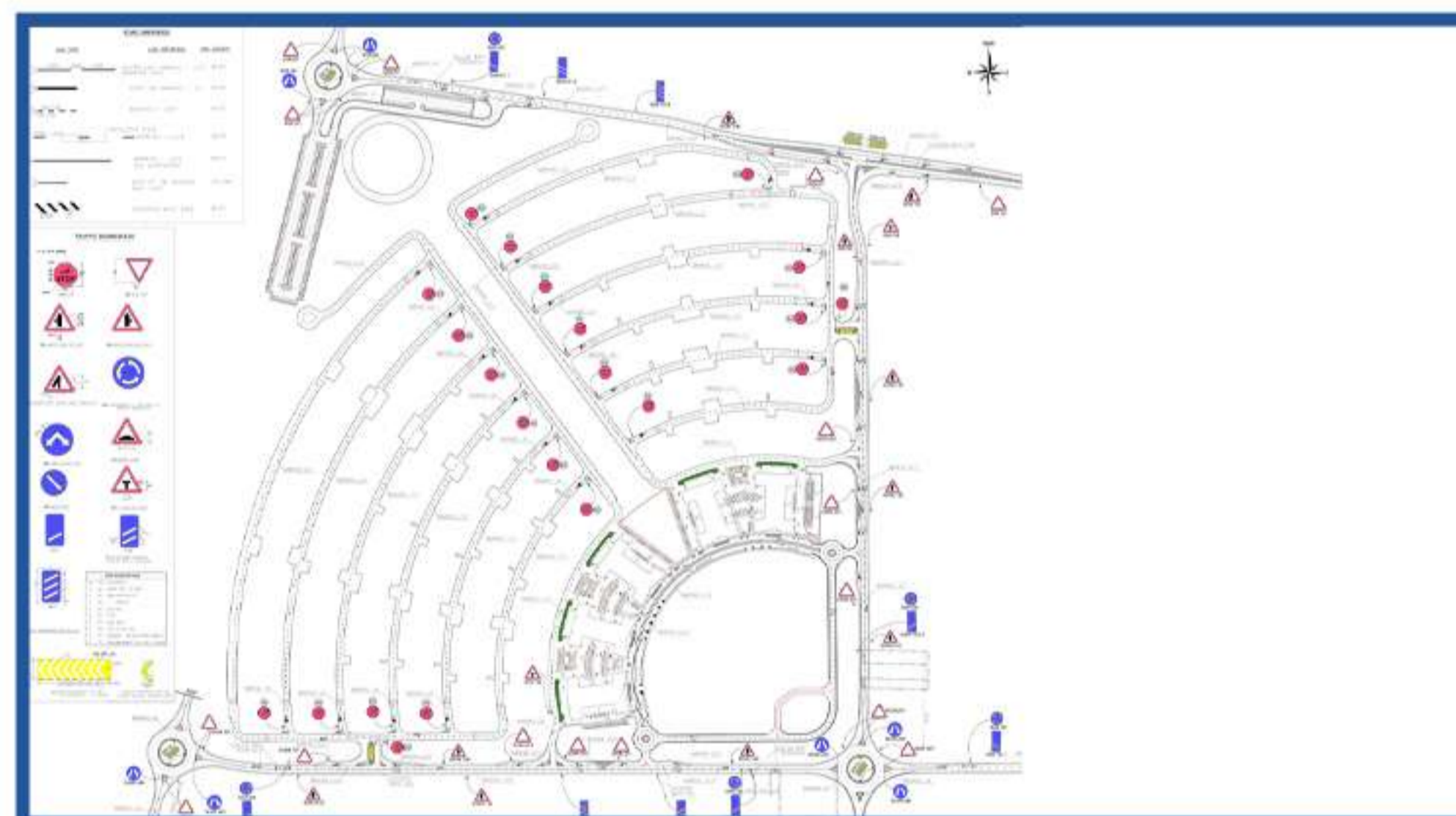
### 1. Road Design

We pride ourselves on developing road networks that blend safety, efficiency and visual appeal. From alignment to cross drainage solutions and signage, we devise systems that guarantee seamless traffic movement and improved connectivity, making travel safer, convenient and more streamlined.



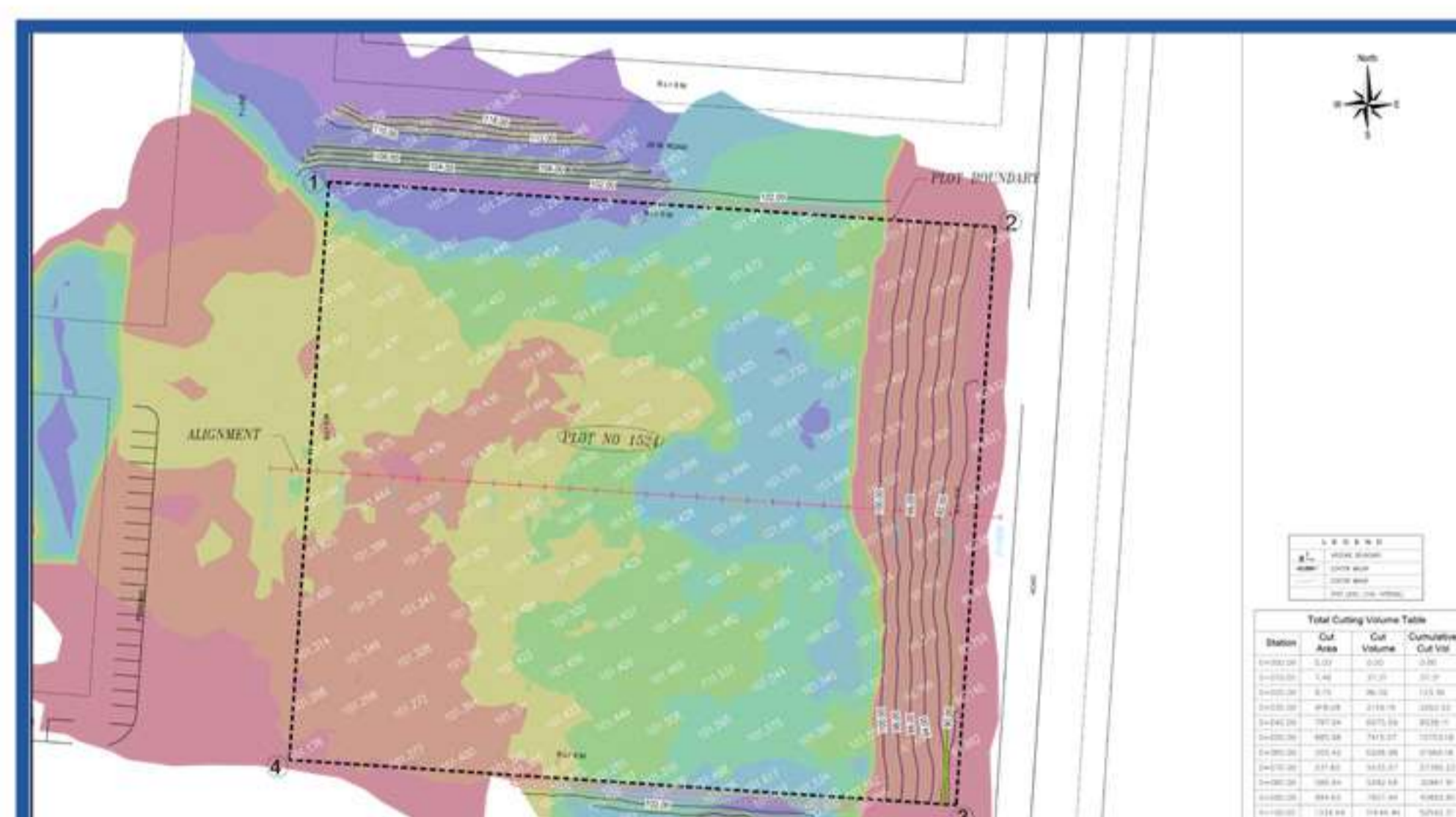
### 2. Car Parking Design

Effective and user-centric parking design is crucial for any project's success. Our team delivers car parking designs that maximize space utilization while staying compliant with local guidelines and accessibility norms. Our focus is on user convenience and efficient space management.



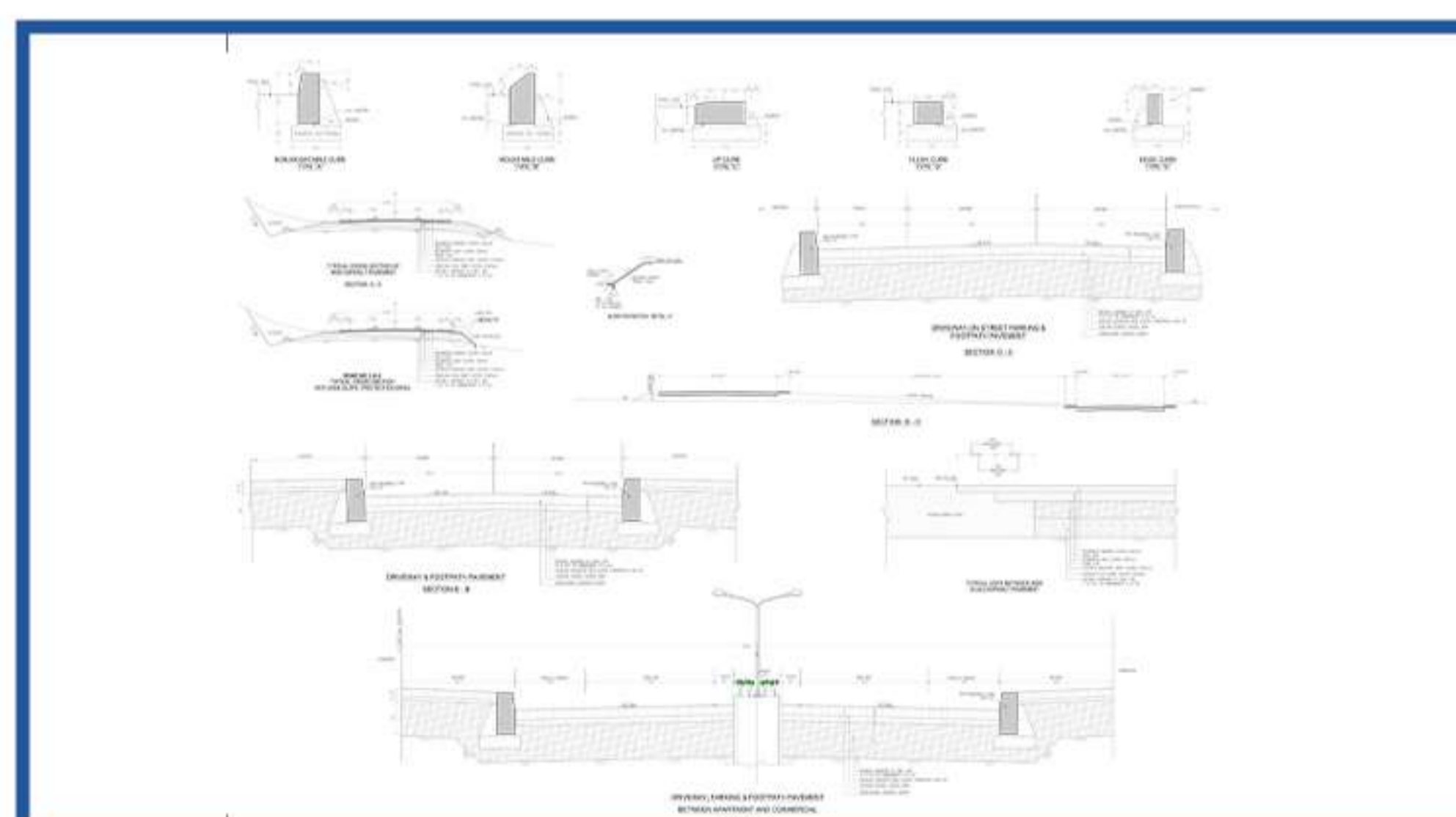
### 3. Grading Plans

We offer meticulous grading plans, ensuring controlled elevations for effective stormwater management, erosion prevention and creating sites that balance utility with beauty. Our designs emphasize eco-friendly landscapes that blend seamlessly with the environment.



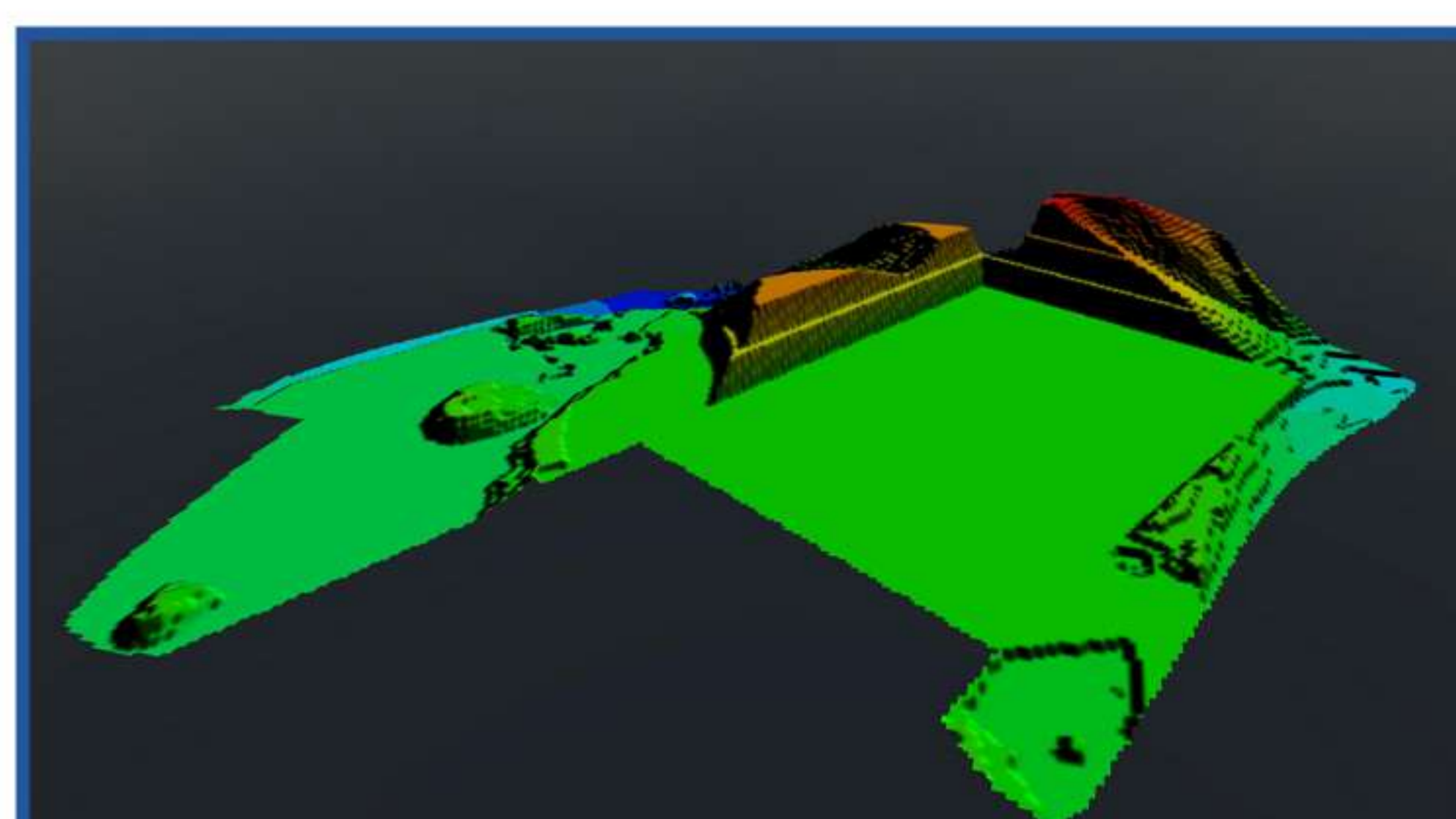
### 4. Road Cross Sections

With our in-depth road cross-sections, stakeholders gain a clear understanding of road structures - from elevation details and roadbed materials to drainage systems and utilities. These detailed views are essential for effective construction and upkeep, ensuring durable road infrastructure.



### 5. Mine Planning

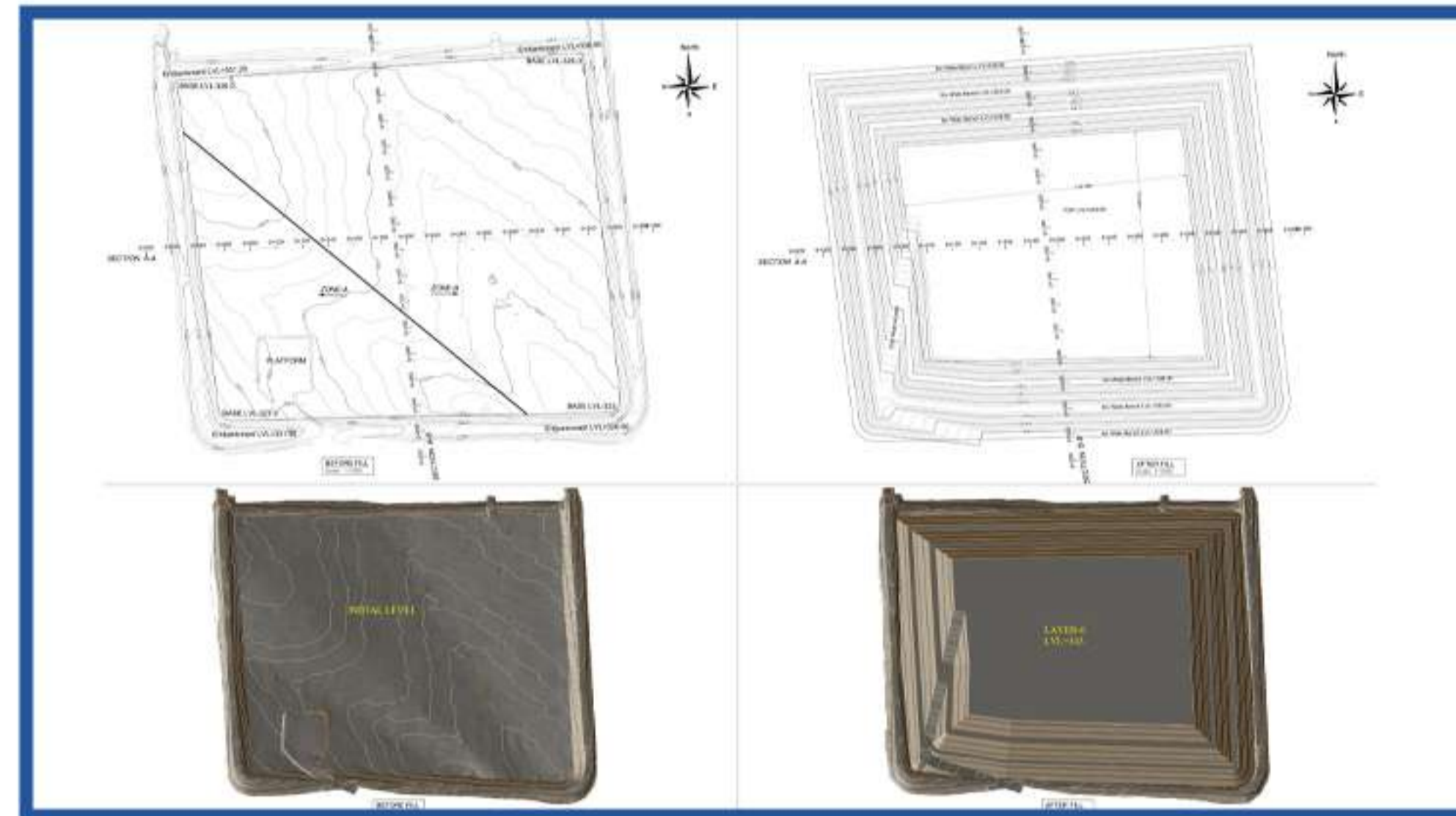
In the realm of mine planning, we present strategies that balance resource extraction, safety standards, and environmental respect. Our seasoned experts craft thorough mine plans that champion sustainable and efficient mining, meeting both environmental and industrial standards.



# CAD Services

## 6. Earthwork Quantity Assessment

For a planner, accurate earthwork estimations are fundamental for effective budgeting and resource distribution. By employing highly sophisticated methods, we offer precise computation of earthwork volumes, ensuring minimal wastage and optimum financial prudence for your prestigious projects.



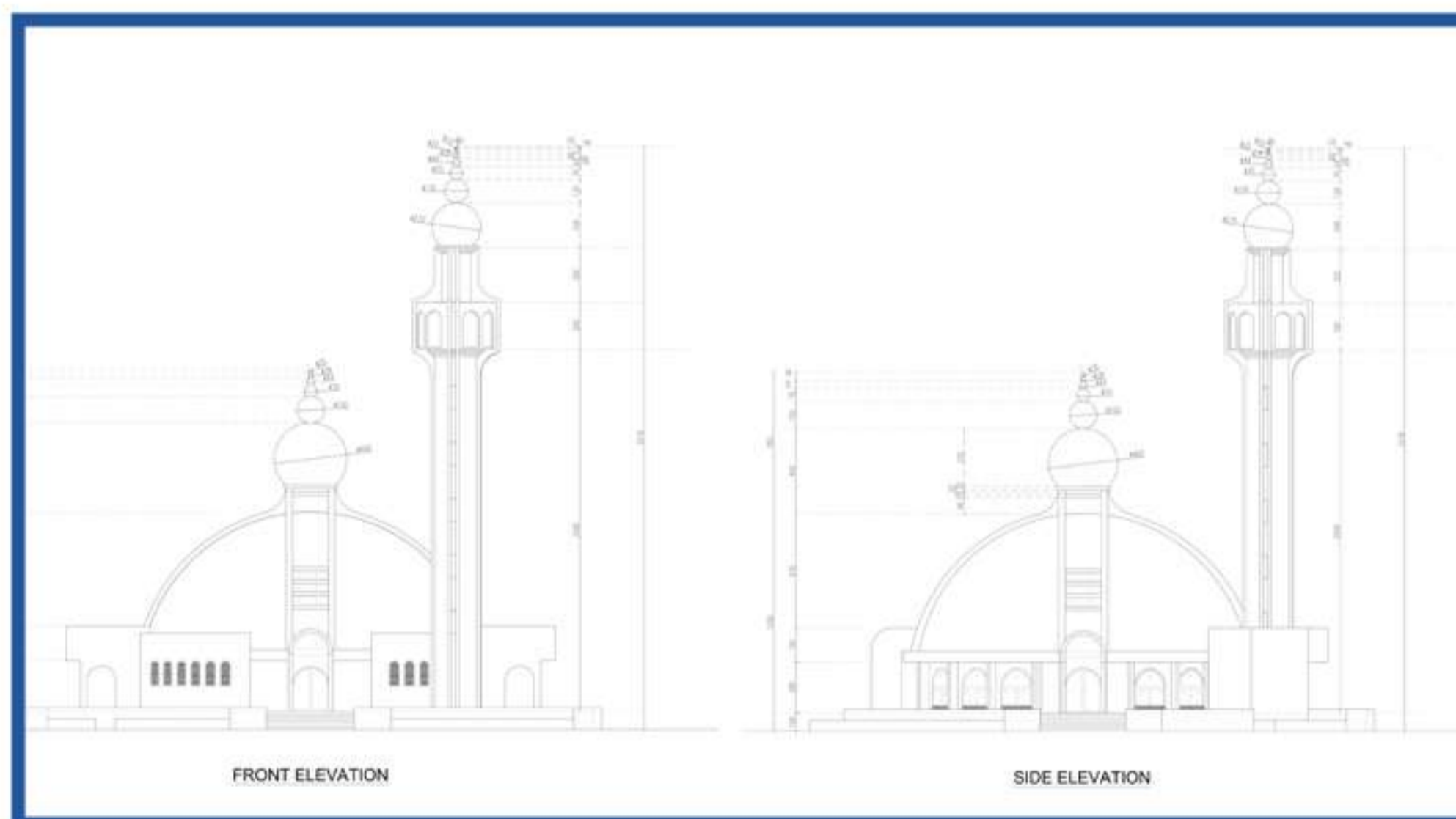
## 7. 2D and 3D As-Built Documentation

Specializing in the documentation of prevailing structures and conditions, we generate precise as-built drawings in both 2D and 3D visualizations. These illustrations serve as essential guides for potential modifications, amendments, enlargements, and architectural choices.



## 8. As-Built Verification

Upholding quality assurance is fundamental to our ethos. We scrupulously compare built structures with their original designs via extensive as-built validations. This procedure ensures that projects materialize to impeccable standards and resonate with your aspirations.



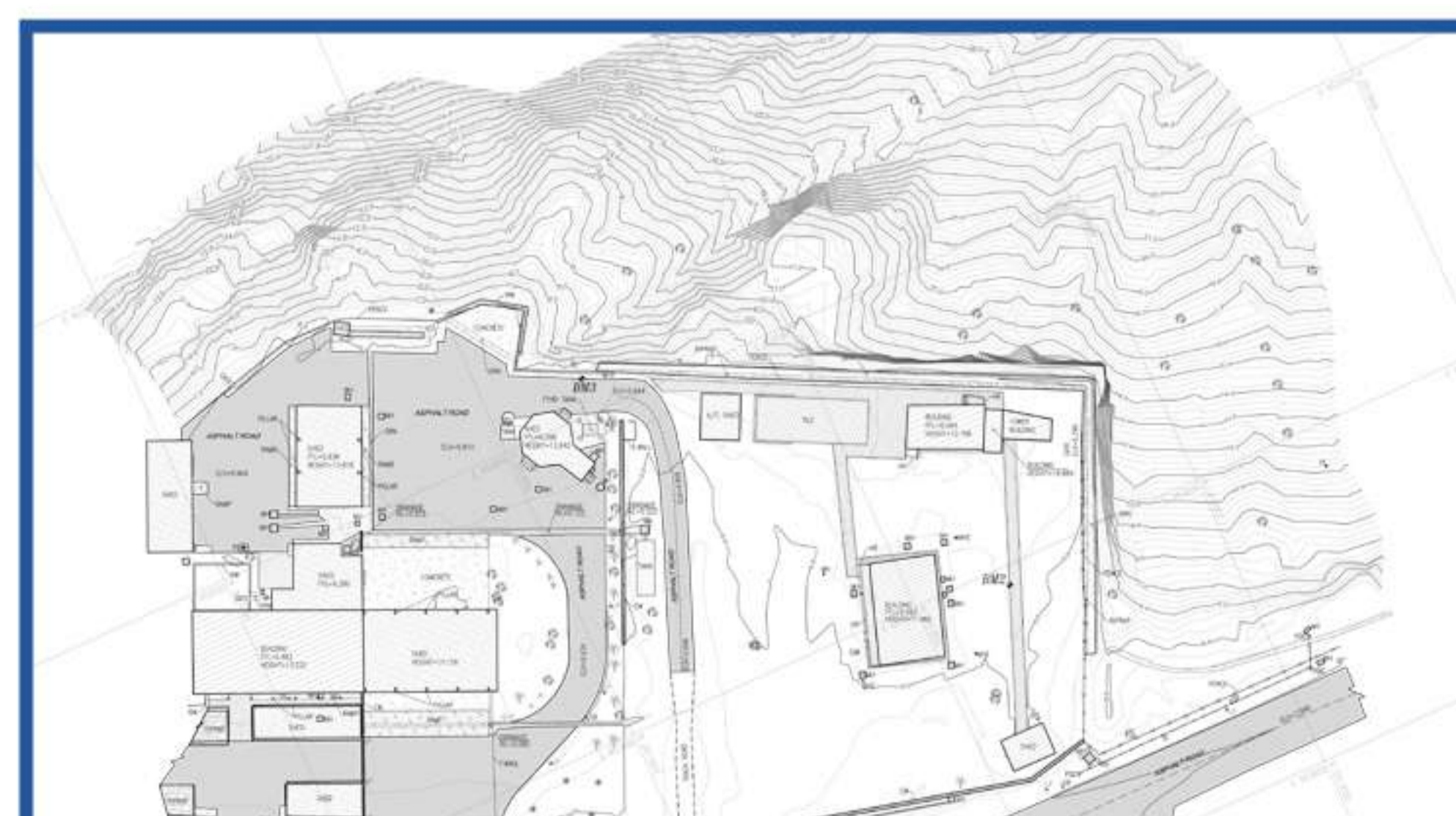
## 9. Property Subdivision Design

For real estate ventures, planners, our strategic subdivision blueprints maximize land utility, infrastructure arrangement and neighborhood charm. Our designs accentuate the worth and allure of your property ventures.



## 10. Topographic and Contour Drawings

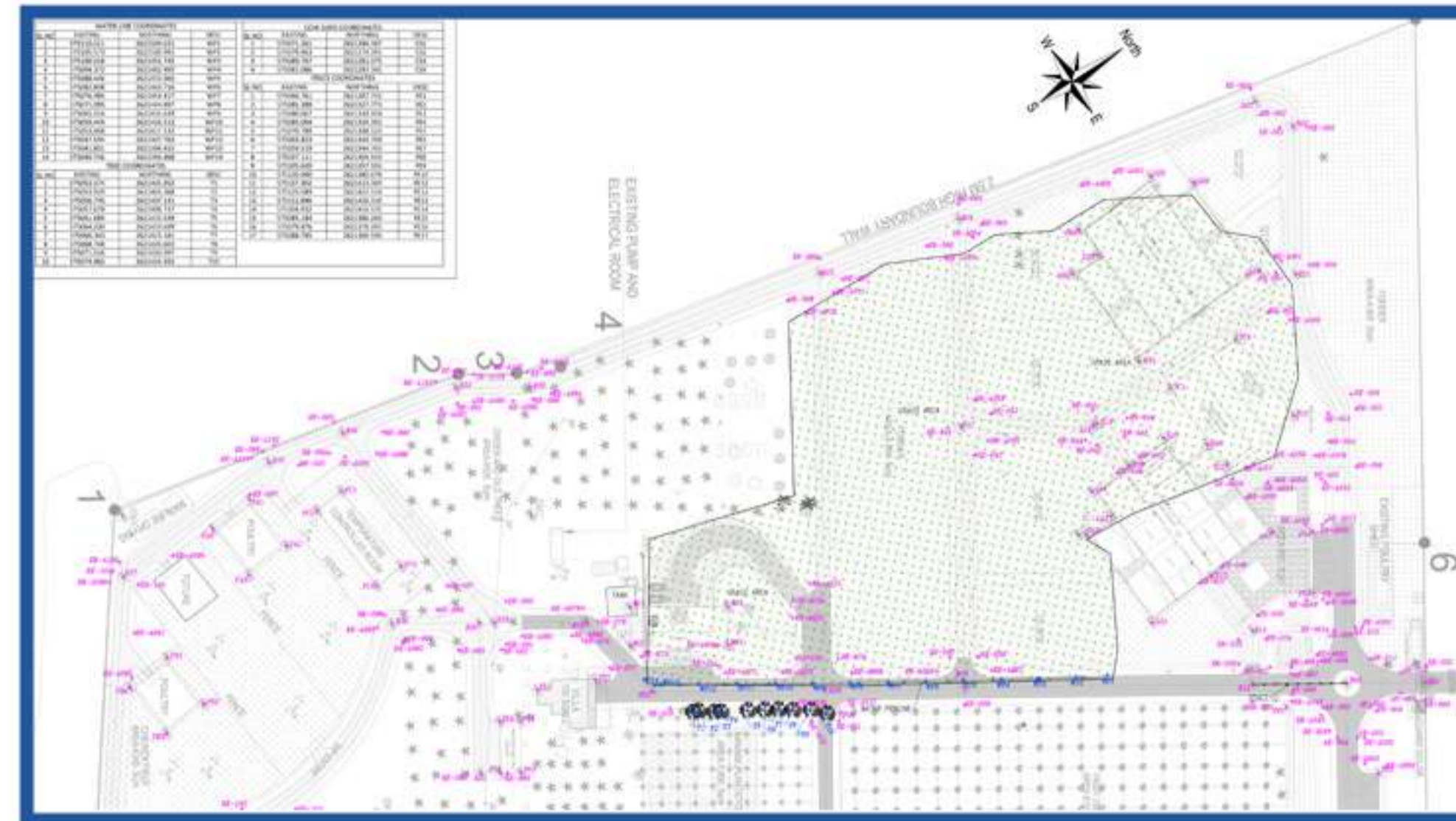
Our intricate topographical and contour diagrams furnish comprehensive visuals of the natural terrain. Such detailed imagery is instrumental for architects and designers, aiding them in making judicious design choices that harmonize with the natural setting.



# CAD Services

## 6. SETTING OUT SURVEY

The setting out survey is a foundational step in construction and engineering projects, bridging the gap between design and reality. Its careful approach to accuracy, alignment, and proper placement sets the stage for the successful execution of projects, ensuring that the envisioned structures come to life in accordance with the original plans.



## MAJOR PROJECT DETAILS

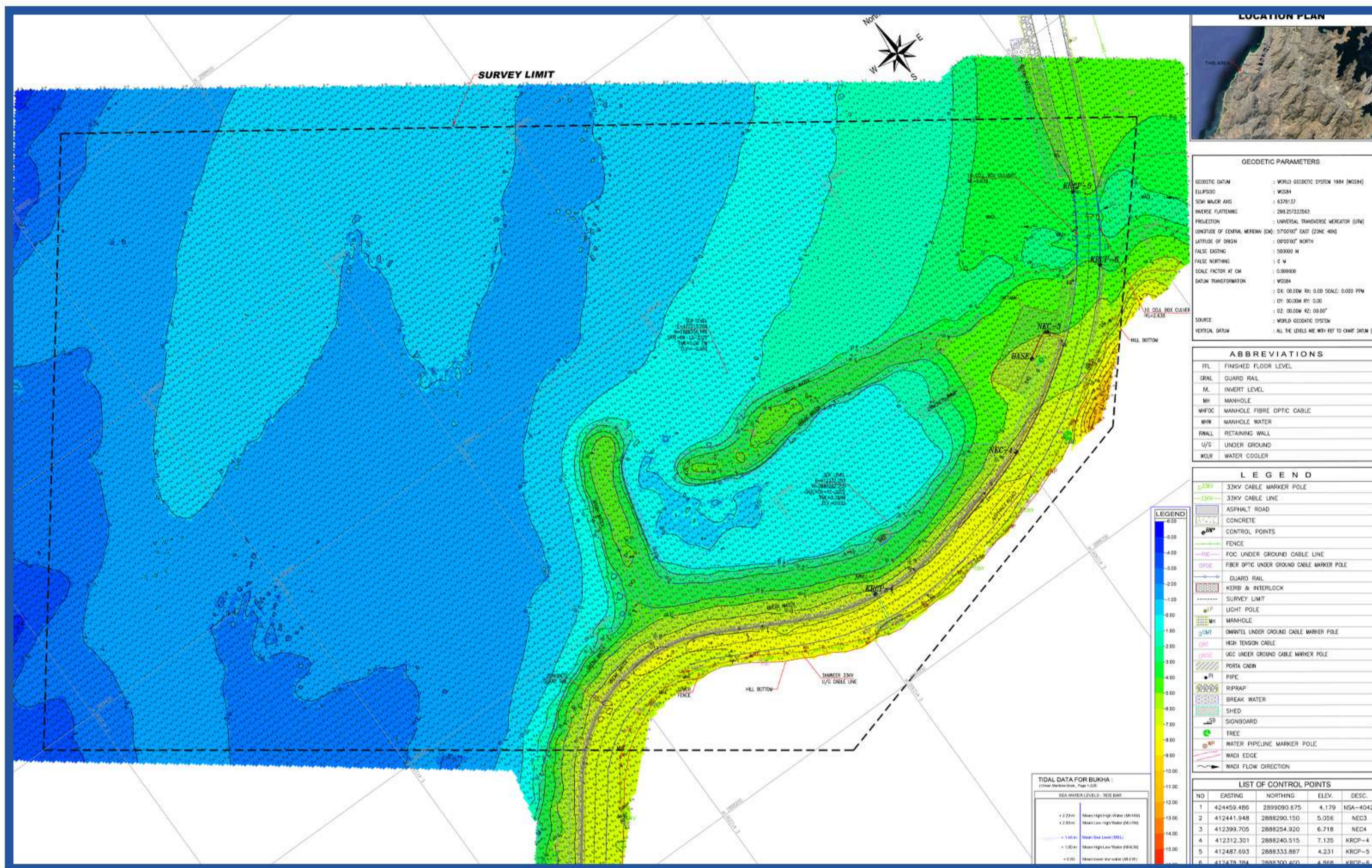
SL NO.	Project Name
1	TOPOGRAPHIC DRONE SURVEY FOR THE UAE - OMAN RAIL ALIGNMENT
2	TOPOGRAPHIC SURVEY FOR IBRI DOWNTOWN
3	TOPOGRAPHICAL SURVEY OF DOWNTOWN (AL-KHUWAIR) AREA IN MUSCAT
4	TOPOGRAPHIC DRONE SURVEY FOR 1 SQUARE KILOMETERS AT MAJAN MINAING LEASE AREA
5	TOPOGRAPHIC SURVEY & SETTING OUT SURVEY AT AL KAMIL FOR SMART AGRICULTURE SITE.
6	LEVEL SURVEY FOR THE WADI SECTION AT AMIRATH
7	TOPOGRAPHICAL SURVEY CUT&FILL QUANTITY AND AS-BUILT SURVEY AFTER THE LAND WORK FOR THE PLOT IN AL HASANATH-NAKHAL
8	TOPOGRAPHIC SURVEY & QUANTITY CALCULATION FOR PLOT NO 1121 & 1122 AT BARKA



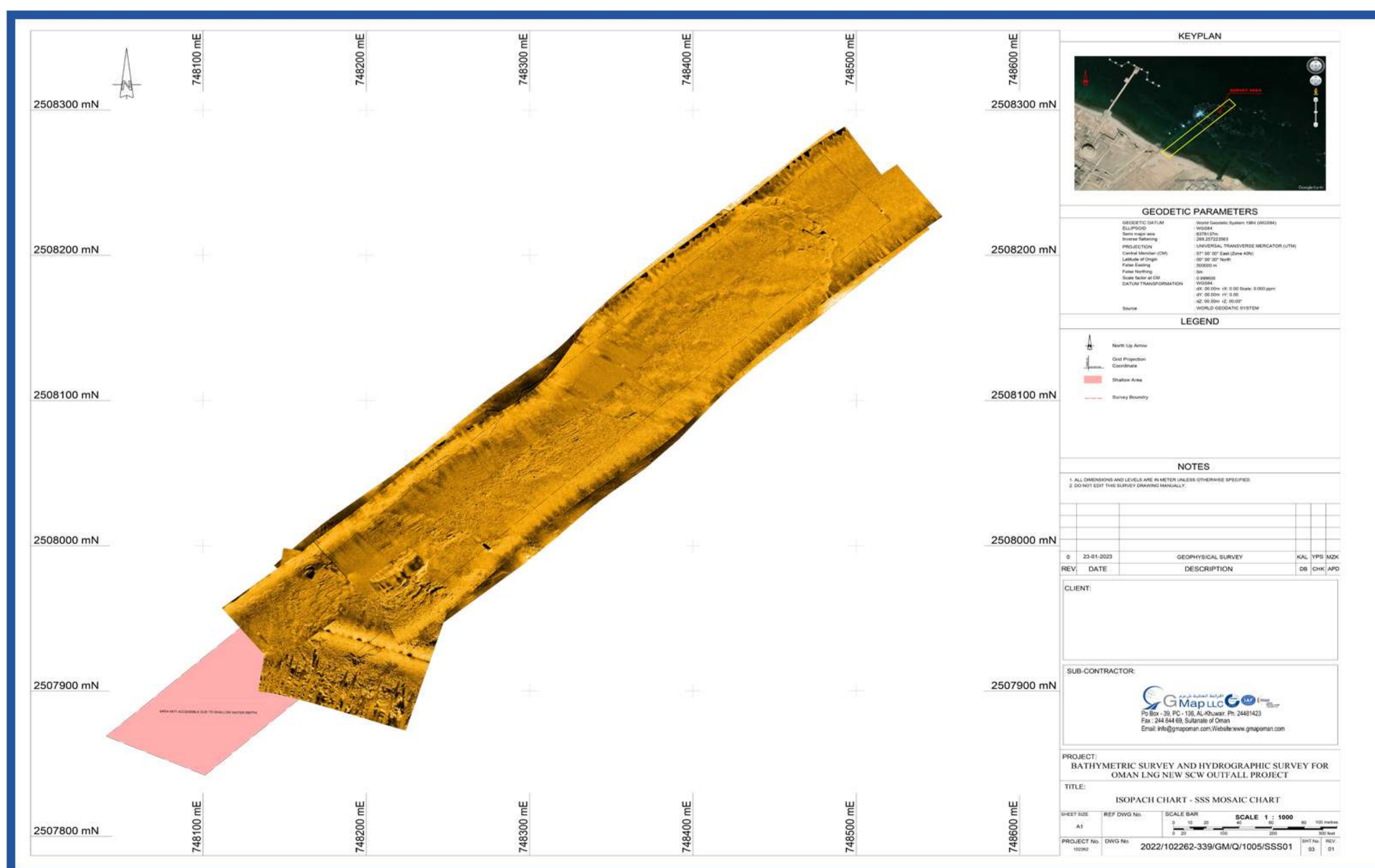
# PRESTIGIOUS PROJECTS

SL NO.	PROJECT DETAILS
1.	Client organization: M/s. Ministry of Housing and Urban Planning. Project name: Al Khuwair Down Town Project. Project Year : 2023
2.	Client organization: M/s. Ministry of Housing and Urban Planning. Project name: Ibri Down Town Project. Project Year : 2023
3.	Client organization: Galfar Engineering & Contracting SAOC. Project name: Multibeam Bathymetric Survey Of Harbor Basin Area & Approach Channel As Part Of Construction Of Fishery Port At Duqm. Project Year : 2023
4.	Client organization: Petroleum Development of Oman. Consultant: Rock International Engineering Consultancy. Project name: Topographic Route Survey, Peg Marking, Establishment Of Benchmarks & Alignment Sheet Preparation For Jaleel Pdo-Omc Project.
5.	Client organization: Sur Governorate. Consultant: DAR Engineering Consultancy. Project name: Bathymetry, Topographic & Hydrographic Survey. At Kawr Al Batah Project At Sur, Sultanate Of Oman.
6.	Client organization: Oman- Etihad Rail Consultant: Egis Emirates Project Management & Engineering Consultancy LLC Project name: Topographical drone survey for the UAE -Oman Rail -Alignment at Al-Ain Boarder to Sohar Port.
7.	Contractor: Premier International projects LLC Project name: Road Design For The Internal Roads In Rustaq Phase 4 - 20 Km Project Year: 2023
8.	Client organization: Ministry Of Transport Consultant: Renardet S.A. & Partners Consulting Engineers LLC Project name: Singlebeam Bathimetry Survey For The Proposed Musandam Peninsular Road Proejct Project Year: 2023
9.	Client organization: Shell Development Oman Consultant: Petrofac E&C Oman LLC Project name: Topographical Route Survey & Underground Survey For Proposed Oman Gas Upstream Block 10 Phase 2 Project Year: 2023
10.	Client organization: OQ Contractor: Bahwan Engineering Company LLC Project name: Tank foundation settlement & verticality plumbness survey for 58 Tanks Project Year: 2023

# Deliverables



**BATHYMETRIC SURVEY CHART**

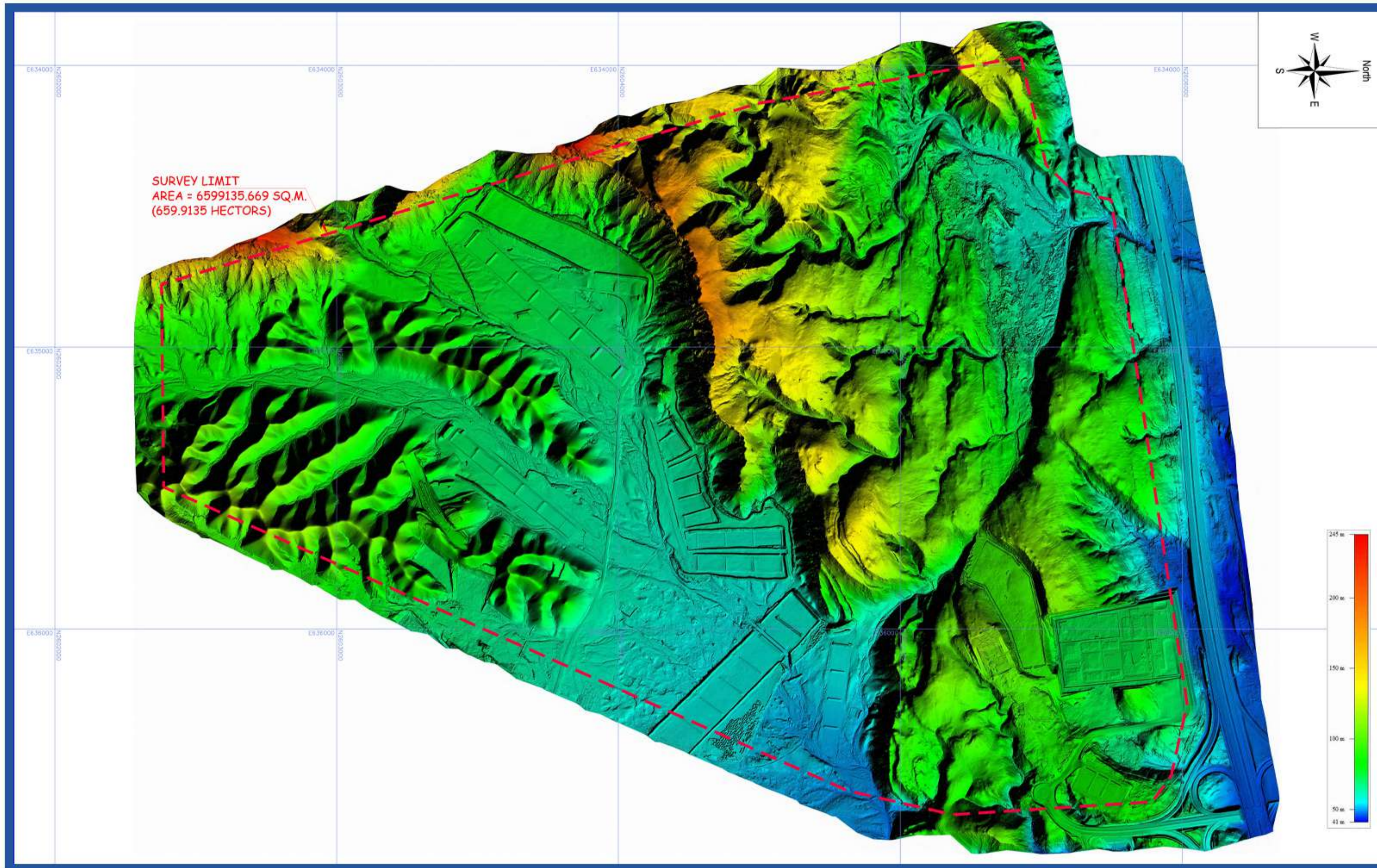


**ISOPACH CHART  
SIDESCAN SONAR**





# Deliverables



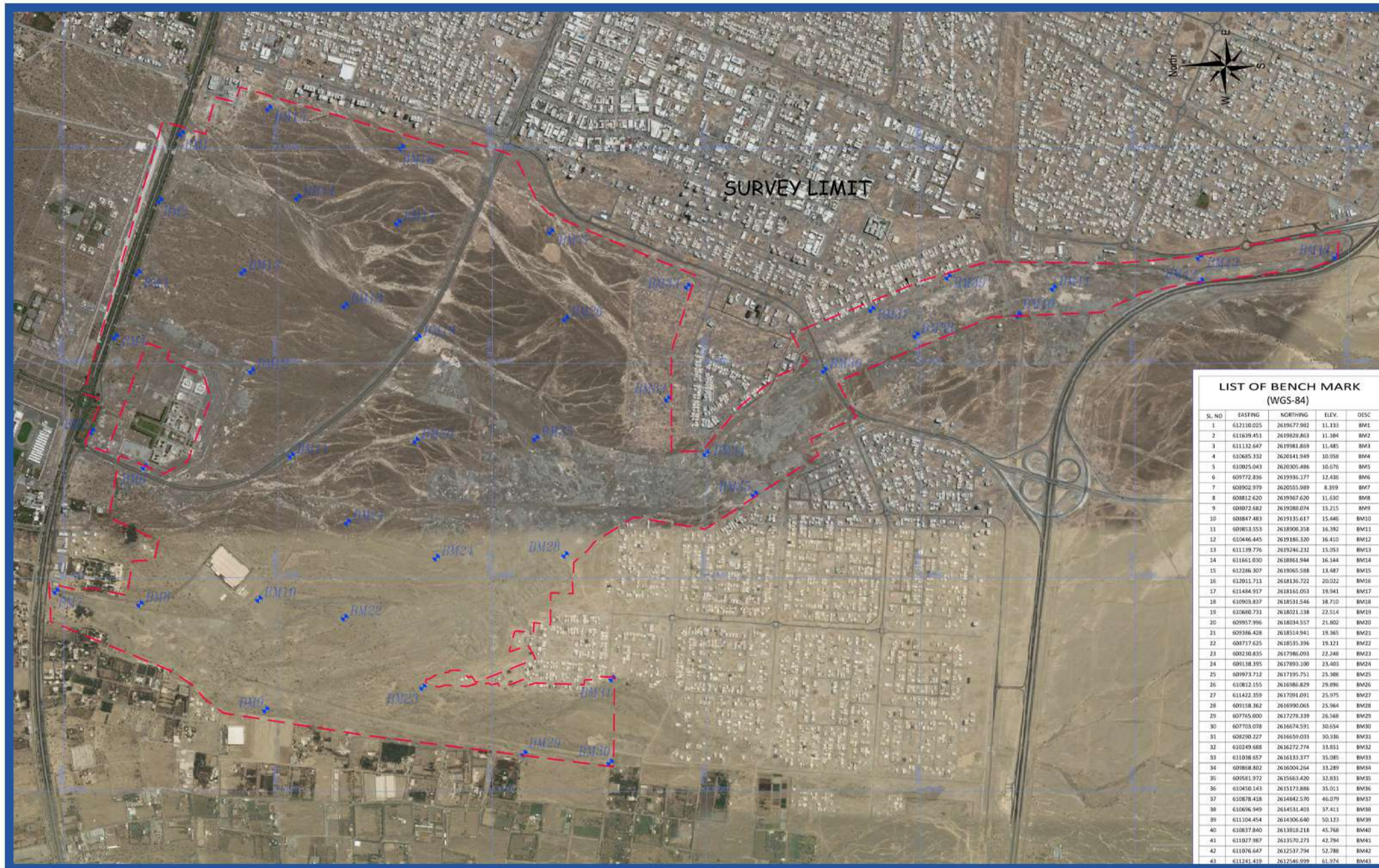
**DIGITAL ELEVATION MODEL**



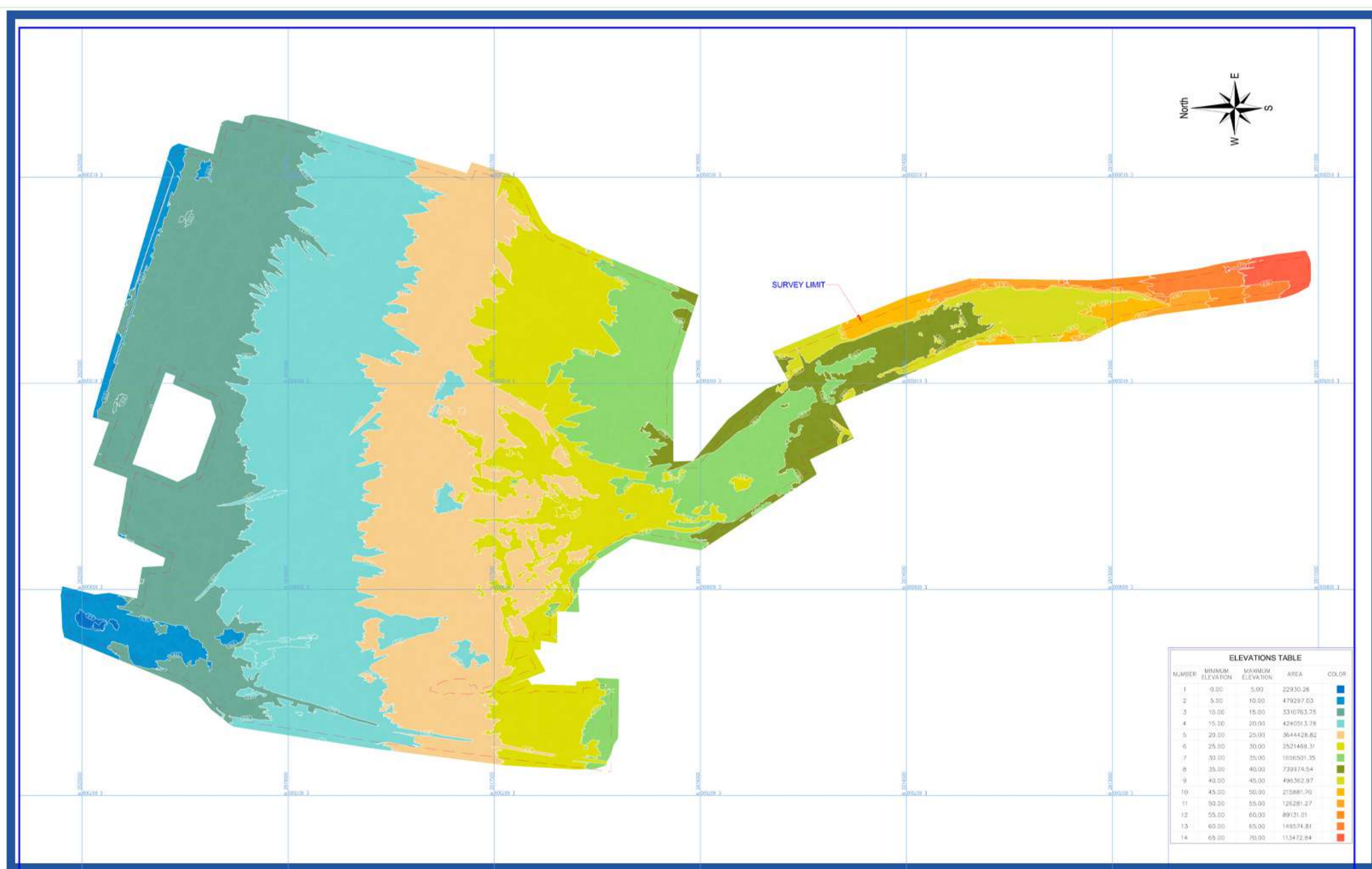
**ORTHOMOSAIC MAP**



# Deliverables



**BENCH MARK DETAILS**



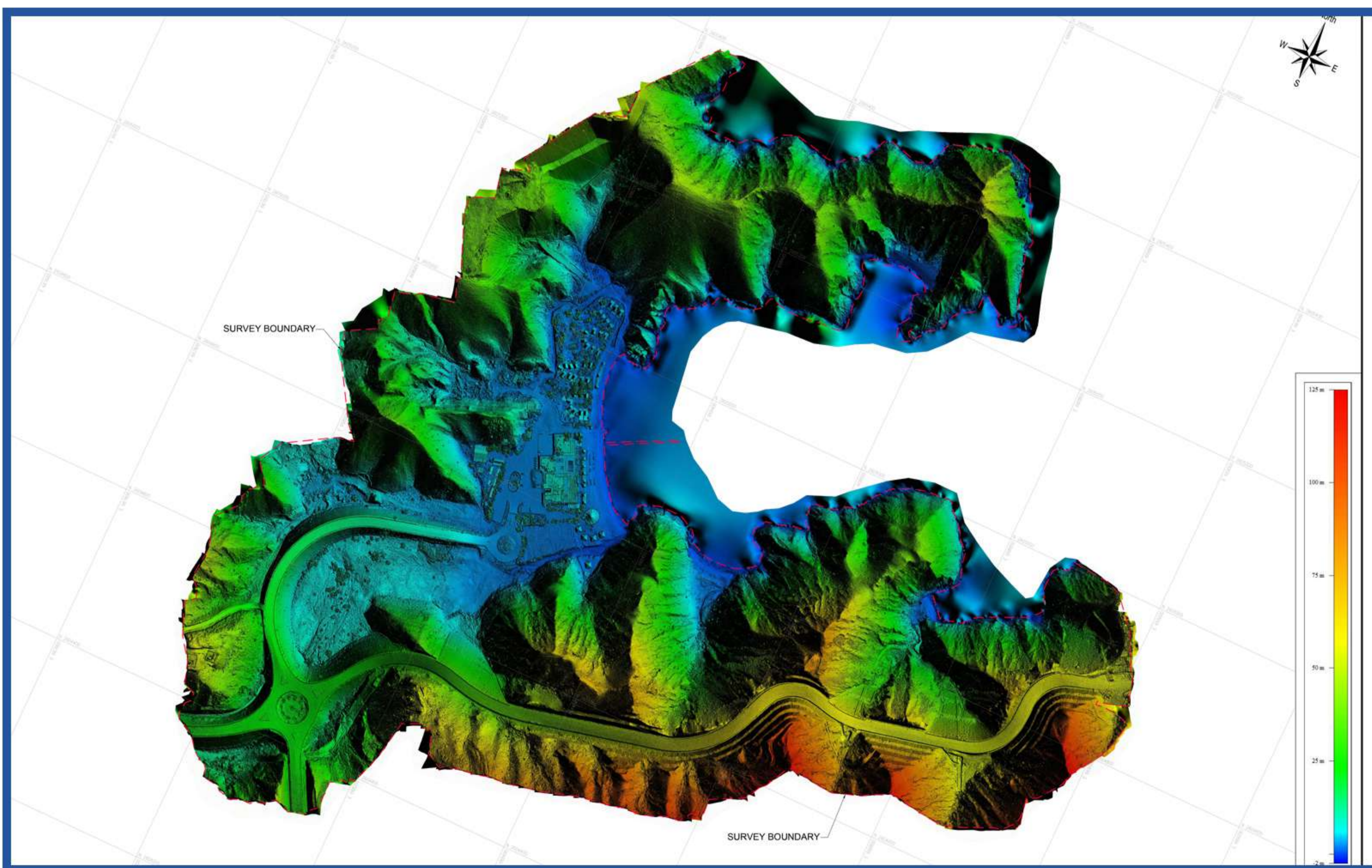
**ELEVATION COLOUR TAB**



# Deliverables



**ORTHOMOSAIC MAP**



**DIGITAL ELEVATION MODEL (DEM)**



# APPRECIATION LETTERS

**K.A. KHATIB & ALAMI PARTNERS**  
Muscat, Oman  
Tel: (969) 24 402016  
Fax: (969) 24 402008  
P.O. Box: P.C. 112 Ruwi

Samir Al-Baqir  
Senior Director  
Tel: (969) 24 402018 / 24020218  
Email: samir.albaqir@khatibalmi.com

Ref: MC1716/MC/1/18/1157/18  
Date: 05/06/2018

**COMPLETION AND APPRECIATION LETTER**

We are associated with M/s. G Map LLC P.O. Box No. 39, P.C. 139, Al Khawair, Sultanate of Oman for the Project Topographic Survey and Pipeline Route Survey for Water Transmission System at Al Shariya Region for PAEW with sophisticated instruments like Laser Scanner, DGPS and Laser/Prism controlled Total Stations to complete our below mentioned projects. M/s. G Map had surveyed a Total Area of 315 KM Pipeline Route and we found that their works are matching with our specifications and requirements in terms of accuracy and methodology. Here we do appreciate M/s. G Map LLC for the work they delivered as a subcontractor for survey jobs.

For KHATIB & ALAMI PARTNERS




**النفط والغاز  
PETROGAS  
RIMA**

Muscat, Oman  
Tel: (969) 24 402016  
Fax: (969) 24 402008  
P.O. Box: P.C. 112 Ruwi

Samir Al-Baqir  
Senior Director  
Tel: (969) 24 402018 / 24020218  
Email: samir.albaqir@khatibalmi.com

Date: Monday, June 11<sup>th</sup>, 2018

To whom it may concern

This is to certify that GMAP Company has been running a contract with Petrogas Rima LLC for the provision of site surveys for both new wells and field area in Rima small satellite fields (RSSF) in Oman. GMAP has been performing the above-mentioned scope since August 2016 and the performance of this contract has been ranked as satisfactory and sometimes exceeding satisfactory from both operational and HSE aspects, with a total contract value of 210 K\$. GMAP has surveyed about 40 new wells so far (setout and final survey) and has conducted one major field survey in RSSF. Worth to mention that all above activities were carried out without any record of LTI and the deliverables were submitted in a reasonable time. This certificate is given to GMAP Company based on their request and there should be no liability on Petrogas Rima LLC as a result of issuing this certificate.

Yours faithfully,



Mohammed Al Rajhi  
Development Geologist (contract holder).  
Office Number: 24584833  
Email: mohammed.alrajhi@petrogasop.com


**LUBANCONSULT**  
Consulting Engineers

Date: 5 January 2018

**COMPLETION AND APPRECIATION LETTER**

We are associated with M/s. G Map LLC P.O. Box No. 39, P.C. 139, Al Khawair, Sultanate of Oman for the Project Topographic Survey for Water Distribution Network for Nakhal, Awabi and Wadi Al Maawil Wilayats in Al Batinah Region for PAEW with sophisticated instruments like Laser Scanner, DGPS and Laser/Prism controlled Total Stations to complete our below mentioned projects. M/s. G Map had surveyed a Total Area of 389 KM Pipeline Route and we found that their works are matching with our specifications and requirements in terms of accuracy and methodology. Here we do appreciate M/s. G Map LLC for the work they delivered as a subcontractor for survey jobs.

For Lubanconsult LLC



Riad Sankari  
Branch and Projects Manager

**COWI**

G Map LLC  
Post Office Box 39  
Postal Code 139, Al Khawair  
Sultanate of Oman

Attn: Business Development Manager  
Mr Sreejith S

**Design of Al Hafa Development Project  
Completion and Appreciation Letter**

This letter is to certify that we were associated with M/s G Map LLC, Post Office Box 39, Postal Code 139, Al Khawair, Sultanate of Oman for the Project Topographic Survey at Al Hafa, Salalah. The instruments used to complete the above mentioned project are listed below:

- Laser Scanners
- DGPS and Laser/Prism controlled Total Stations

M/s G Map have surveyed a total area of 150 Hectare, and we found that their works are matching with our specifications and requirements in terms of accuracy and methodology.

Here we do appreciate M/s G Map LLC for the work they delivered as a subcontractor for survey jobs.

Yours faithfully,  
For COWI & Partners LLC



Thomas Dierckx  
Chief Project Manager

Internal copy: THD-215366  
External copy:  
Attachment

**الإبداع الهندسي للتصميم والاستشارات ش.م.م  
engineering Innovation design & consulting LLC**

Muscat, Oman  
Tel: (969) 24 402016  
Fax: (969) 24 402008  
P.O. Box: P.C. 112 Ruwi

Date: 05/06/2018  
Ref: EIDCRAS/GMP16/02

**COMPLETION AND APPRECIATION LETTER**

We are associated with M/s. G Map LLC P.O. Box No. 39, P.C. 139, Al Khawair, Sultanate of Oman for the Project Topographic Survey at Ras Al Hadid for M/s. Al Jarwal Group with sophisticated instruments like Laser Scanner, DGPS and Laser/Prism controlled Total Stations to complete our below mentioned projects. M/s. G Map had surveyed a Total Area of 6800 Hectares and we found that their works are matching with our specifications and requirements in terms of accuracy and methodology. Here we do appreciate M/s. G Map LLC for the work they delivered as a subcontractor for survey jobs.

For Engineering Innovation Design & Consulting LLC



Balasubramanian Sundaramurthy  
Chief Architect

**رنتاردية إن إن إن وشركاه  
REARNDET S.A. & PARTNERS  
CONSULTING ENGINEERS L.L.C.**

Muscat, Oman  
Tel: (969) 24 402016  
Fax: (969) 24 402008  
P.O. Box: P.C. 112 Ruwi

Date: 28 February 2010

**COMPLETION AND APPRECIATION LETTER**

We are associated with M/s. Gmap LLC, P.O. Box 39, PC-133, Al-Khawair, Oman for the Topographic survey with sophisticated instruments like GPS and Laser/Prism controlled Total Stations to complete our below mentioned projects. We found that their works are matching with our specifications and requirements in terms of accuracy and methodology. Here we do appreciate M/s Gmap LLC for the work they delivered as a subcontractor for survey jobs.

**List of Major completed projects:**

- Topographic survey of Road from Bidiya (Shuqqa) to Gahid Village (75 Km).
- Detailed Topographic survey of Ruwi, Sibaab and Hamriya Region.
- Topographic survey of road from Qumayyah to Hall Al Khanulshah (19.7 Km).
- Topographic Survey for Wadi cross sections for Dam project in Batinah Region (approx. 15,000 hectares).

For Renardet S.A. & Partners



Kim Barnes  
Head - Road Projects

**مركز الهندسة القيمة  
VEC  
Resources & Energy**

Muscat, Oman  
Tel: (969) 24 402016  
Fax: (969) 24 402008  
P.O. Box: P.C. 112 Ruwi

Value Engineering Centre LLC  
P.O. Box 1408  
Postal Code 119  
Muscat, Sultanate of Oman  
Tel: +969 22000000  
Fax: +969 22000001

To: M/S G Map LLC  
Postal Code: 139, P.O. Box: 39  
Al Khawair, Sultanate of Oman

**LETTER OF APPRECIATION AND COMPLETION**

Dear Sir/Madam,

We are associated with M/S G Map LLC, P.O. Box 39, Postal Code: 139, Al Khawair, Sultanate of Oman for the project of "VEIC3090\_Pre-Tender Engineering-Block 9\_27 Long Term Power Grid & SP Project - OHL ROUTE" for the client M/S Occidental Oman for an OHL Route of 4330m including 220KV & 132 KV.

G Map has used highly advanced sophisticated cutting-edge technologies like RTK based Drones, Scanners, DGPS and total stations for executing this project successfully in given timeline.

We found that their works are matching with our specifications and requirements in terms of accuracy and methodology exceeding clients and our expectation.

Here we do appreciate M/S G Map LLC for the work they delivered as a subcontractor for survey jobs.

For VEC Resources & Energy



Doc: KEC/GMP/DAR/02/2021 Date: 23-Feb-2021

To: G MAP LLC From: Mangesh Kumar Halkar  
P.O. Box 39, P.C. 139, Al Khawair, Sultanate of Oman Deputy General Manager - Projects

Attn: Manager Ref No: 181

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Project: OETC LOA: OETC/CEO/2020/828, Dated 3<sup>rd</sup> September, 20  
Construction of 400KV OHL from 400KV Suwayhat GS to 400KV Duqm GS & Construction of 400KV OHL 400KV Duqm GS to 400KV Mahout GS  
Project No. 80/2019

Subject: Survey work completion Certificate

Dear Sir,

This is to certify that M/S G Map LLC has successfully executed and completed the overhead transmission line survey for the above said project.

Total survey work was completed and submitted all the final submissions including report on 08-02-2021

Project: Construction of 400KV OHL from 400KV Suwayhat GS to 400KV Duqm GS & Construction of 400KV OHL 400KV Duqm GS to 400KV Mahout GS

Quantity of work Executed: 348.42 KM

Regards,  
For KEC International Limited



Mangesh Kumar Halkar - Mr  
Deputy General Manager - Projects  
KEC International Ltd. | Email: mhalkar@kec.com

**Worley**  
Energy | Chemicals | Resources

Muscat, Oman  
Tel: (969) 24 402016  
Fax: (969) 24 402008  
P.O. Box: P.C. 112 Ruwi

Worley Oman Engineering LLC  
Lankesh Building, 5th & 6th floor  
Building 1115, Way 4117 Al Khawair  
25th July Street, Muscat  
Sultanate of Oman  
P.O. Box: P.C. 113  
Tel: +969 24473000  
Fax: +969 24473008  
www.worley.com  
OR 134270  
worley.com

23 December 2022

M/s. G Map LLC,  
Postal Code: 139, P.O. Box: 39  
Al Khawair, Sultanate of Oman

**Our Reference: OQEP\_C00015-BPPS\_GMAP\_Completion Certificate 01**

**Subject: Letter of Completion**

Dear Madam/Sir,

Worley is associated with M/s. G Map LLC, P.O. Box 39, Postal Code: 139, Al Khawair, Sultanate of Oman for the project "BISAT PERMANENT POWER PLANT PROJECT (BPPS PROJECT)" for our Customer in Sultanate of Oman, for an OHL Route Survey of 107 km including 33KV.

G Map has completed the above-mentioned project on 21-June-2022.

This is issued on request of M/s. G Map LLC.

Yours Sincerely,



Steve Poole  
Steve Poole  
Contract Manager  
OQ Projects  
Worley




# Our Clients



Bahwan Engineering  
Company LLC



Petrofac 



اسياد  
ASAD



  
Arabian Industries

STS  
الخدمات الفنية الخاصة ش.م.م.  
SPECIAL TECHNICAL SERVICES L.L.C.  
A MEMBER OF THE O.G.S.C. GROUP OF COMPANIES

COWI

  
الشركة العمانية لشراء الطاقة والرياح (ش.م.م.)  
OMAN POWER AND WATER PROCUREMENT CO. (SAOC)

  
L&T Construction

MDO  
تنمية معادن عمان  
MINERALS DEVELOPMENT OMAN

