

# HEXA LINE

ENGINEERING CONSULTANTS

COMPANY PROFILE 2026

Technical design, engineering studies &  
supervision



HEX6<sup>®</sup>  
LINE

FROM IDEA  
TO EXECUTION



## ABOUT US

Hexa Line Engineering Consultants was founded in Riyadh in 2021 by a team of Saudi professionals to meet the growing demand for technical engineering services driven by Saudi Vision 2030.

We are a **technical engineering consultancy**. We take our clients' engineering ideas — an architectural concept, a piece of land or a specific technical need — and deliver the technical design, studies and supervision that turn them into reality.

Our services cover concept validation, schematic and detailed design for all engineering disciplines, construction permits, engineering and environmental studies, and construction supervision.

Clients can engage us for the full range of services or for any single one — from one hydrological study to a complete real estate development.

## ENGINEERING IDEAS & TECHNICAL STUDIES

We take the architectural concept design and develop it into technical design, engineering studies and construction-ready documents. Our clients come to us with one of three needs — and can engage us for the full range of services or for any single one.



01

### REAL ESTATE DEVELOPMENT

A developer or landowner with an architectural concept who needs to start construction — concept validation, technical design for all disciplines, permits, IFC drawings and supervision.



02

### ENGINEERING STUDIES

A company or government entity preparing land for future development — or a client who needs single or multiple studies: hydrology, slope stability, an environmental permit or an EMS.



03

### CONSTRUCTION SUPERVISION

An owner who needs an independent engineering team on site to make sure the project is built as designed and permitted.

The full range — or any single service: design · studies · permits · supervision





## OUR FOUNDERS AND EXPERTS



**Dr. Saeed Fenais**

GENERAL MANAGER

PhD in Civil Engineering, with 35 years of experience on infrastructure projects across the Kingdom.



**Dr. Amr Fenais**

CHIEF EXECUTIVE OFFICER

PhD in Infrastructure Engineering, Geotechnics and Engineering Project Management, with 12 years of experience on diverse projects in the Kingdom.



**Dr. Omar Alrehaili**

TECHNICAL MANAGER

PhD in Environmental Engineering, with 13 years of experience in environmental studies, water treatment and water-quality monitoring.



**Dr. Raed Al-Harbi**

WATER STUDIES CONSULTANT

PhD in Water Resources Management; consultant on water-management studies to several government entities, including the Ministry of Environment, Water and Agriculture.



## OUR MISSION

To turn our clients' engineering ideas and technical needs into ready-to-execute projects — delivering technical design, engineering studies, permits and supervision, as a complete package or as individual services, to the highest standards of quality, safety and compliance.



## OUR VISION

To be the technical engineering partner of choice in Saudi Arabia for engineering ideas and technical studies — combining deep expertise, innovation and integrity, and contributing to sustainable development under Vision 2030.



# OUR VALUES



01

## Integrity

We establish and maintain the highest standards of professional performance and ethical practice.



02

## Innovation

We work closely with our clients to deliver practical, well-engineered solutions that bring their ambitions to life.



03

## Teamwork

Our multidisciplinary team comes together on challenging projects to find sound engineering answers.



04

## Policies

We comply with our quality policy, health & safety policy, environmental policy, code of business conduct and sustainability policy.



05

## Collaboration

We foster a collaborative environment built on teamwork, mutual respect and effective communication.



06

## Client Service

Our clients are our reason to exist. We deliver on time, within budget and beyond expectations.



07

## Sustainability

Sustainability is integrated into our policies, design practices and everyday business routine.



## OUR MESSAGE

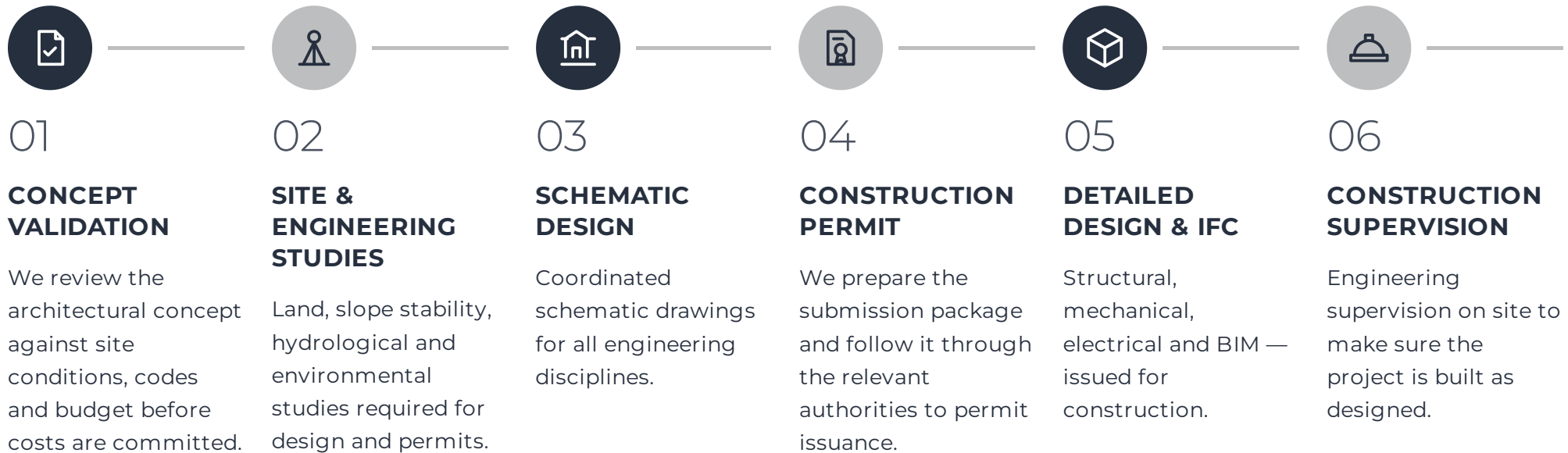
Every project deserves solid engineering — from the first technical study to the last day on site. Whether a client needs one study or a complete development package, we bring specialised expertise, practical solutions and close follow-up, so they can move forward with confidence, on time and in full compliance.





# FROM IDEA TO EXECUTION

A complete path for real estate development — or any single stage or study on its own.



# 01 ENGINEERING DESIGN & PERMITTING

We take the architect's concept and engineer it into a permitted, construction-ready project — for buildings and commercial fit-outs alike.

|        |                                                                                                                                                                                                                                                  |        |                                                                                                                                                                                                                   |        |                                                                                                                                                                                                                                                      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LINE 1 |  <h3>Concept Design Validation</h3> <p>Review of the concept against site conditions, the Saudi Building Code, authority requirements and budget.</p>           | LINE 2 |  <h3>Schematic Drawings</h3> <p>Coordinated schematic design across all engineering disciplines.</p>                             | LINE 3 |  <h3>Construction &amp; Fit-Out Permits</h3> <p>Permit drawings and submissions to Balady, Civil Defense and other authorities, followed through to approval.</p> |
| LINE 4 |  <h3>Structural &amp; MEP Design</h3> <p>Structural, mechanical, electrical and plumbing design — calculations and Issued-for-Construction (IFC) drawings.</p> | LINE 5 |  <h3>BIM Modelling &amp; Coordination</h3> <p>BIM models, clash detection, multi-discipline coordination and shop drawings.</p> | LINE 6 |  <h3>BOQ &amp; Specifications</h3> <p>Bills of quantities and technical specifications ready for tender and construction.</p>                                    |

## 02 ENGINEERING STUDIES

Every study needed to permit and develop land — delivered as one engineering package or as a single standalone study. Land surveys and soil testing are carried out through accredited partners under our technical direction.

|        |                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                   |        |                                                                                                                                                                                                                             |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LINE 1 |  <p><b>Land Preparation Studies</b></p> <p>Land boundary, topographic surveys and soil investigations — scoped, coordinated and reviewed for design and permits.</p> | LINE 2 |  <p><b>Slope Stability &amp; Rockfall</b></p> <p>Stability analysis, hazard zoning and mitigation design — drainage, reinforcement and retaining structures.</p> | LINE 3 |  <p><b>Hydrological &amp; Flood Studies</b></p> <p>Rainfall-runoff modelling, flood-risk mitigation and valley right-of-way studies.</p> |
| LINE 4 |  <p><b>Environmental Impact Assessment</b></p> <p>EIA studies and environmental permits for new projects.</p>                                                       | LINE 5 |  <p><b>EMS &amp; Environmental Compliance</b></p> <p>ISO 14001 environmental management systems and plans for construction projects.</p>                        | LINE 6 |  <p><b>Water, Sewer &amp; Stormwater Networks</b></p> <p>Design of water supply, sewer collection and stormwater networks.</p>          |



## 03 CONSTRUCTION SUPERVISION

Engineering supervision for all types of projects — making sure what is built matches what was designed and permitted, through to authority sign-off and handover.

|        |                                                                                                                                                                                                                      |        |                                                                                                                                                                                                                        |        |                                                                                                                                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LINE 1 |  <p><b>Site Supervision &amp; Inspection</b></p> <p>Scheduled site inspections with hold-point sign-off and inspection reports.</p> | LINE 2 |  <p><b>Quality Assurance &amp; Control</b></p> <p>Inspection and test plans, non-conformance registers and site instruction logs.</p> | LINE 3 |  <p><b>Shop Drawing &amp; Submittal Review</b></p> <p>Technical review of shop drawings, materials, equipment and mock-ups.</p> |
| LINE 4 |  <p><b>Progress &amp; HSE Reporting</b></p> <p>Progress reports, HSE audits and regular updates that keep owners informed.</p>     | LINE 5 |  <p><b>Testing &amp; Commissioning</b></p> <p>Commissioning of MEP and fire systems, snagging and de-snagging.</p>                   | LINE 6 |  <p><b>Authority Inspections &amp; Handover</b></p> <p>Civil Defense inspection, as-built review, close-out and handover.</p>  |

## WHO WE SERVE



### 01 REAL ESTATE DEVELOPERS

Commercial, residential and industrial developments. We provide the full range of technical services — concept validation, technical design for all disciplines, engineering studies, permits, IFC drawings and construction supervision.



### 02 GOVERNMENT ENTITIES

Engineering, hydrological and environmental studies, technical reviews and supervision for public projects, infrastructure and land held for future development.



### 03 SPECIFIC-SERVICE CLIENTS

Clients who need one service done right — a hydrological or slope stability study, an environmental permit and EMS, MEP design, or fit-out design and permits.

# WHY HEXA LINE



## FULL RANGE, OR ONE SERVICE

Design, studies, permits and supervision under one roof — take the complete package or only what you need.



## PHD-LED EXPERTISE

Specialists in structures, geotechnics, water resources and environmental engineering.



## REGULATORY KNOW-HOW

Hands-on experience with building permits, environmental approvals and government technical reviews.



## PROVEN RECORD

Studies and projects delivered for government entities, developers and private owners across the Kingdom.



## LEAN AND RESPONSIVE

A focused team that moves fast, communicates clearly and keeps clients informed.



## BUILT TO EXECUTE

Designs that are practical to build, on budget and ready for the contractor.



14 OUR PROJECTS

# BUILDINGS & COMMERCIAL

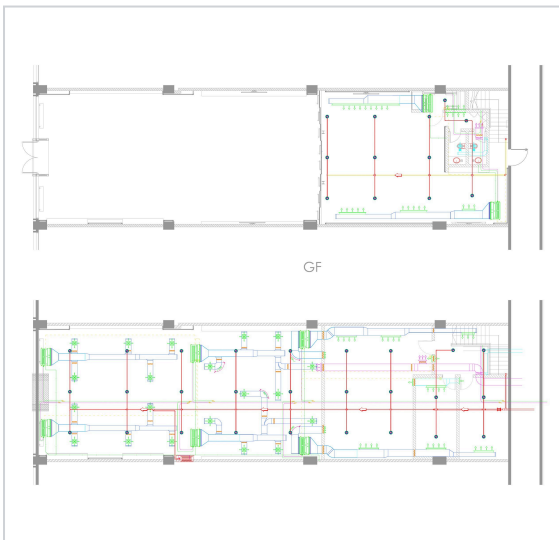
Design, permitting and construction supervision







Interior design concept: Shift Design & Architecture



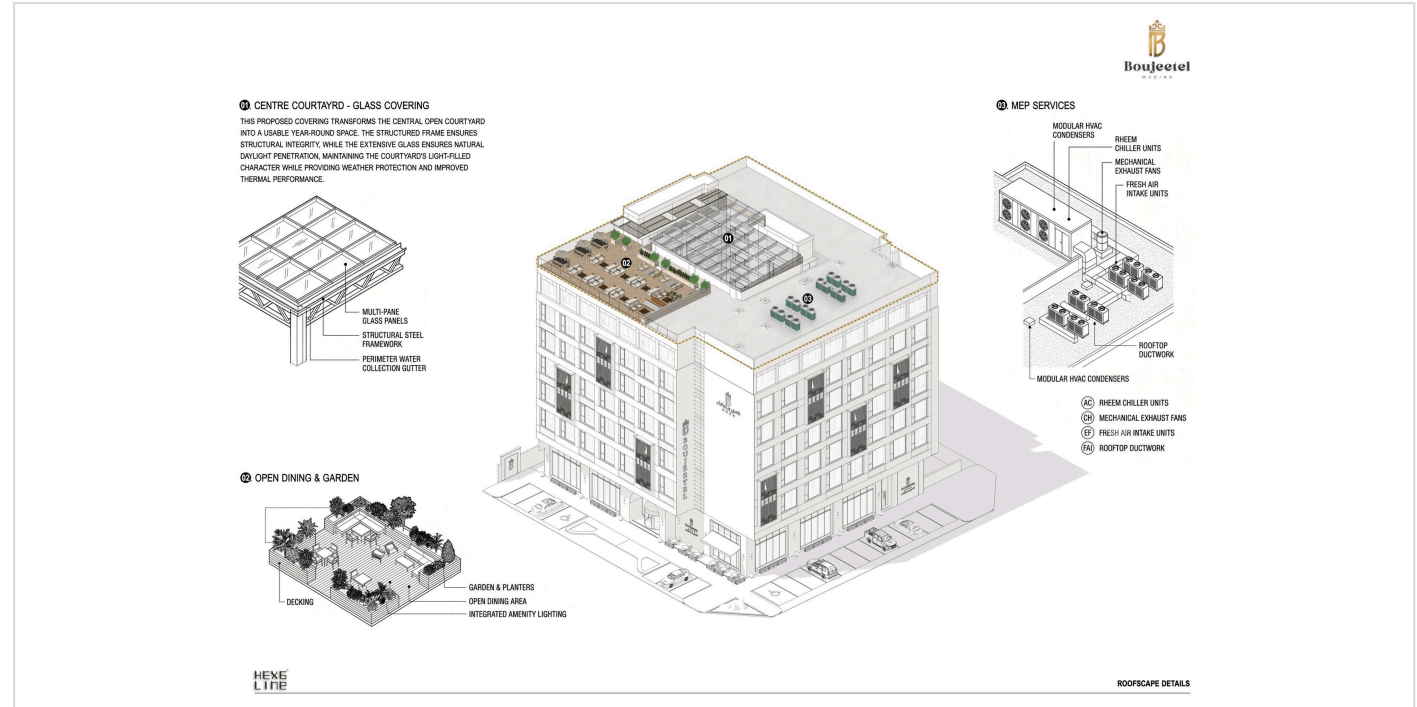
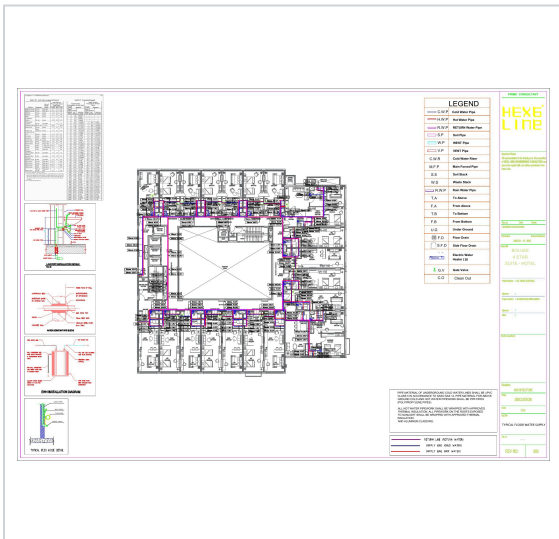
## DETAILED DESIGN, PERMITS & SUPERVISION

### Art of Cardz

Retail & gaming fit-out (ongoing). Hexa Line is the engineering consultant — detailed engineering design, construction supervision and issuing all required permits.

📍 Norville Mall, Riyadh — 2026





Roofscape details — courtyard glass covering, rooftop dining and MEP services · Lower left: typical floor water supply

## ENGINEERING DESIGN & CONSTRUCTION SUPERVISION

# Boujeetel Hotel

Engineering design and construction supervision of a four-star hotel for Boujee Hospitality Services Company.

📍 Madinah





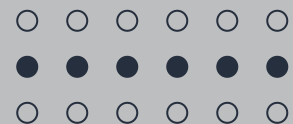


## DESIGN & CONSTRUCTION SUPERVISION

# Multi-Use Building

Design and supervision of a multi-use building developed under the Sports Boulevard design code.

📍 Al-Munsiyah, Riyadh





## MEP DESIGN & SUPERVISION

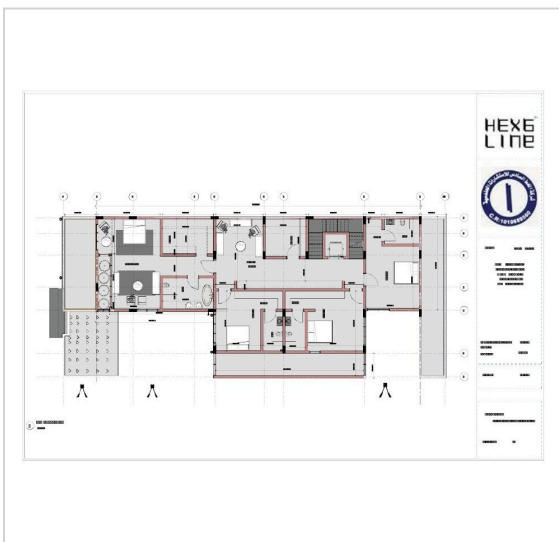
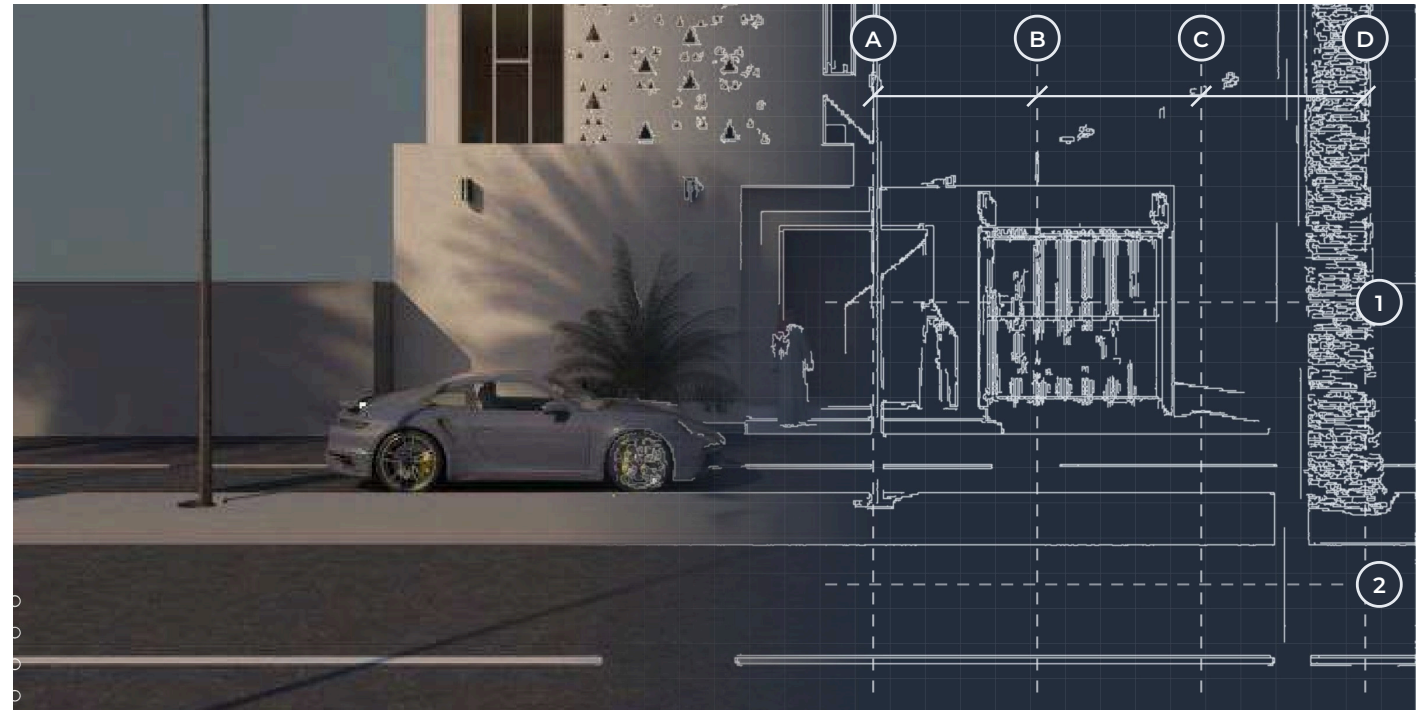
# Residential Villas

Mechanical and electrical (MEP) design and supervision of electromechanical works for four villas — Tawkeed Real Estate Development & Investment.

📍 Al-Munsiyah, Riyadh







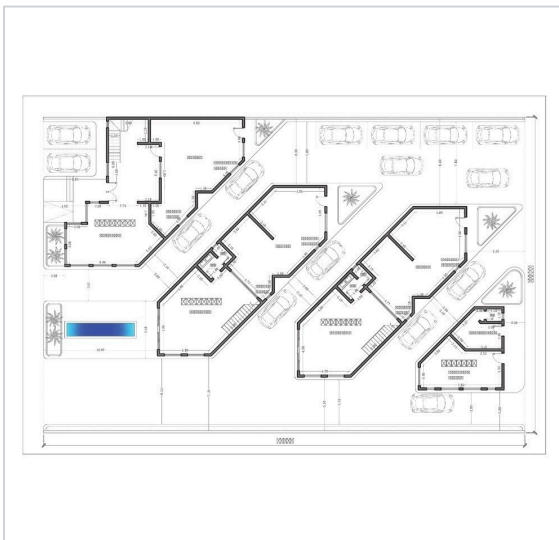
## RESIDENTIAL DESIGN

# Private Villas

Engineering design drawings for private residential villas.

📍 Diriyah



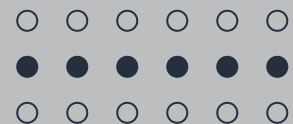


## COMMERCIAL & DRIVE-THROUGH

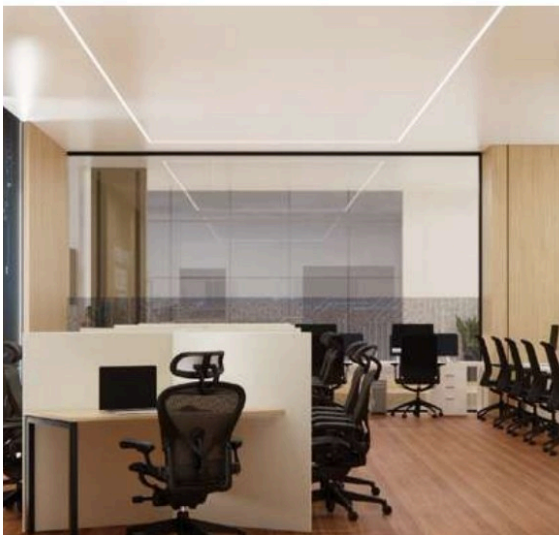
# Jawharat Najran

Design of a commercial and drive-through development, including site layout and building drawings.

📍 Najran







## SPATIAL ENVIRONMENT DEVELOPMENT

# Saudi Electronic University

Development of the spatial environment and interior design for three Saudi Electronic University buildings.

📍 Al-Rabi, Riyadh





## COMMERCIAL FIT-OUT

Design development, construction support and permits for retail, food & beverage and office fit-outs.



### Onvog

Retail store — Riyadh Park Avenue



### Maqsaf 90

Restaurant — Riyadh



### Bunnica

Coffee shop and office



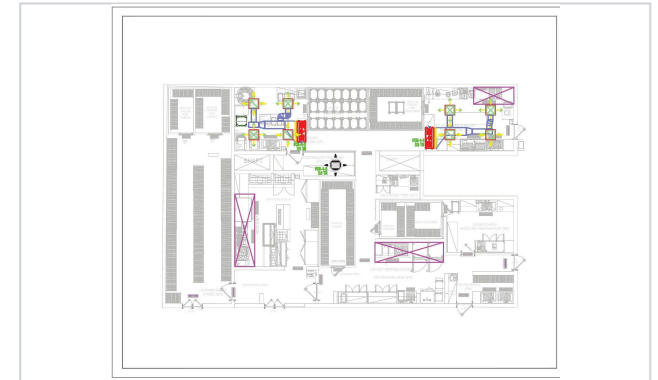
### Business Incubator

Offices — Al-Yasmin, Riyadh



### Law Firm Office

Private offices

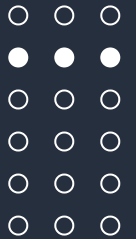


### Central Kitchen

Food production facility

## OTHER SELECTED PROJECTS

- Concept designs and 3D renderings for the offices of King Abdullah City for Atomic and Renewable Energy (K.A.CARE) — Riyadh
- Design and supervision of residential and commercial projects in Riyadh — commercial offices, restaurants, private farms, villas and commercial complexes
- Consulting services to the main contractor — BIM and shop drawings — Four Seasons Hotel, Jeddah
- Supervision of several housing projects — National Housing Company
- Supervision of the construction of Zakat and Income buildings in four cities — Ministry of Finance
- Supervision of the construction of three technical-institute buildings — Technical and Vocational Training Corporation (TVTC)

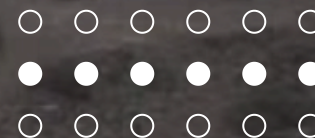




24 OUR PROJECTS

# ENGINEERING STUDIES

Environment, hydrology, water and geotechnics





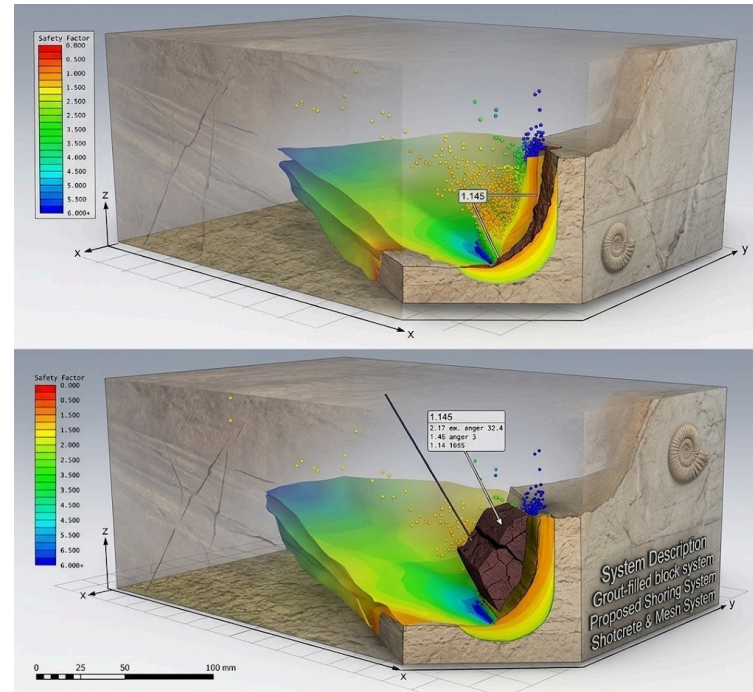
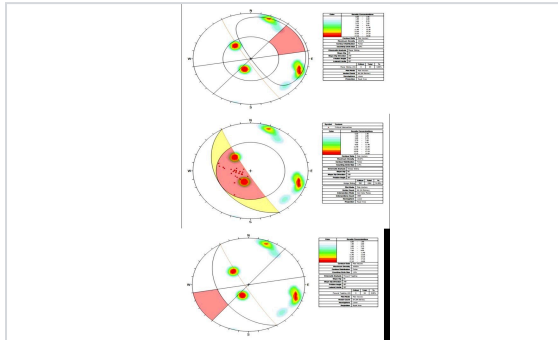
## ENGINEERING STUDIES — TRACK RECORD

| YEAR | STUDY                                                                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2026 | Geological study, slope stability and rockfall analysis, and excavation side support for the Iconic Tower — Plot 556, Scheme 2460, Al-Qairawan, Riyadh (IQ Real Estate)                      |
| 2026 | Engineering geological study, rock slope stability analysis and rock reinforcement design — AlBaha Resorts, Khaira Mountain and Ebdaa Adventure Park                                         |
| 2026 | Geological, slope stability, rockfall and excavation side-support studies for eight high-rise towers (up to 6 basements and 25 floors) — Al-Aqiq, Al-Sahafa, Al-Yasmin and Al-Narjis, Riyadh |
| 2025 | Hydrological studies for two Special Emergency Forces sites — Asir Region and Al-Ahsa Governorate                                                                                            |
| 2025 | Review of environmental studies for relocating the King Saud University services area — Diriyah Gate project (energy & cooling plant and wastewater station)                                 |
| 2025 | Spatial environment development of the Saudi Electronic University buildings — Riyadh                                                                                                        |
| 2024 | Review of the environmental impact assessment for Wadi Najran                                                                                                                                |
| 2024 | Hydrological and environmental study for the Ard Al-Kur site — Al-Aziziyah Municipality, Makkah                                                                                              |

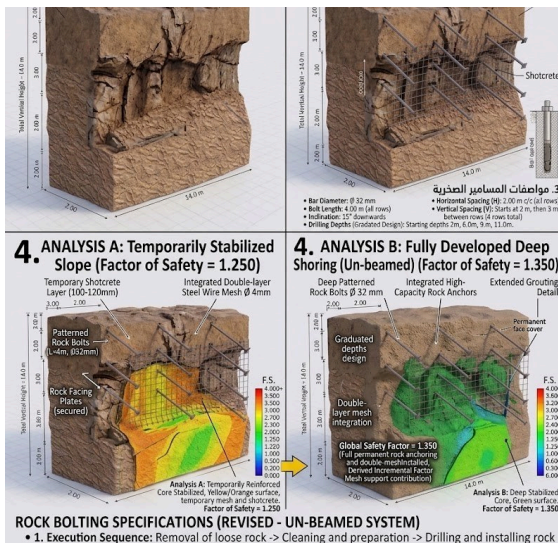
## ENGINEERING STUDIES — TRACK RECORD

| YEAR | STUDY                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------|
| 2024 | Supervision of updating the hydrological studies of the Kingdom's dams                                                         |
| 2024 | Delineation of valley and stream rights-of-way outside urban boundaries                                                        |
| 2023 | Environmental Management System (EMS) plan for the Central Service Center construction project — Wady Safar, Diriyah (DGDA)    |
| 2023 | Review of the strategic plan for the hydrological study of Najran Region                                                       |
| 2022 | Hydrological studies to determine the optimal timing for opening dam gates                                                     |
| 2021 | Groundwater quality study as a water source — Qiddiya                                                                          |
| 2021 | Peer review of the hydrological study for the optimal-roads project to maximise use of King Fahd Dam water — Bisha Governorate |
| 2021 | Peer review of the hydrological study for the design of Wadi Al-Laith Dam                                                      |
| 2020 | Land surveying and hydrological studies for multiple sites across the Kingdom                                                  |





3D slope stability analysis — natural and reinforced excavation faces



## GEOLOGY · SLOPE STABILITY · EXCAVATION SUPPORT

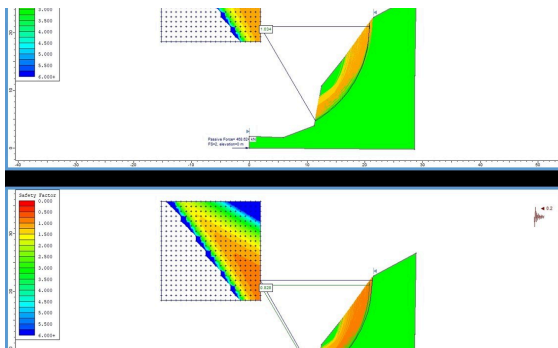
### Iconic Tower

Geological study, slope stability and rockfall analysis, and design of the excavation side-support system — rock bolts, wire mesh and shotcrete — for the Iconic Tower, Plot 556, Scheme 2460.

📍 Al-Qairawan, Riyadh — 2026







Field mapping of rock-face failure mechanisms



## ROCK SLOPE STABILITY • ROCK REINFORCEMENT

### AlBaha Resorts — Khaira Mountain

Engineering geological study and rock slope stability analysis to reinforce the rock faces of AlBaha Resorts at Khaira Mountain and the EbdAA Adventure Park — field mapping, kinematic and limit-equilibrium analysis, and design of rock bolts, mesh and shotcrete.

📍 Al-Baha — 2026





# DEEP EXCAVATIONS FOR HIGH-RISE TOWERS

Geological studies, slope stability and rockfall analysis, and excavation side-support design for high-rise developments across north Riyadh, prepared for submission to Riyadh Municipality.



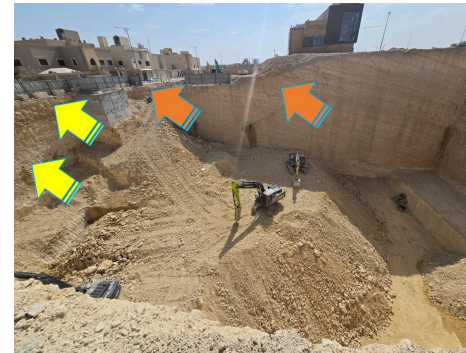
**Office Tower**

Al-Yasmin, Riyadh — 2026



**Office Building — 6 basements, 25 floors**

Al-Yasmin, Riyadh — 2026



**Commercial Tower**

Al-Narjis, Riyadh — 2026



**Multi-Use Tower**

Al-Narjis, Riyadh — 2026



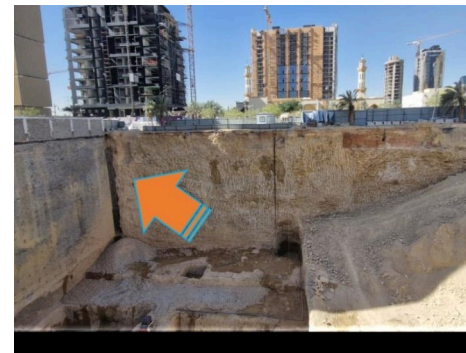
**Office Tower — 4 basements, 10 floors**

Al-Sahafa, Riyadh — 2026



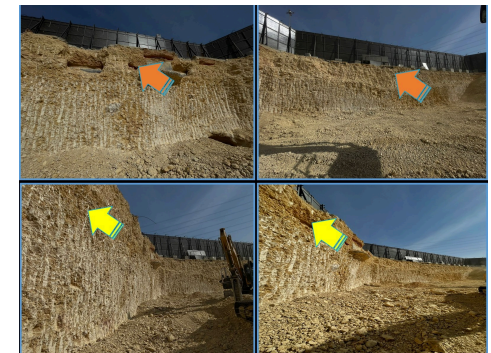
**Office Tower — 6 basements, 9 floors**

Al-Sahafa, Riyadh — 2026



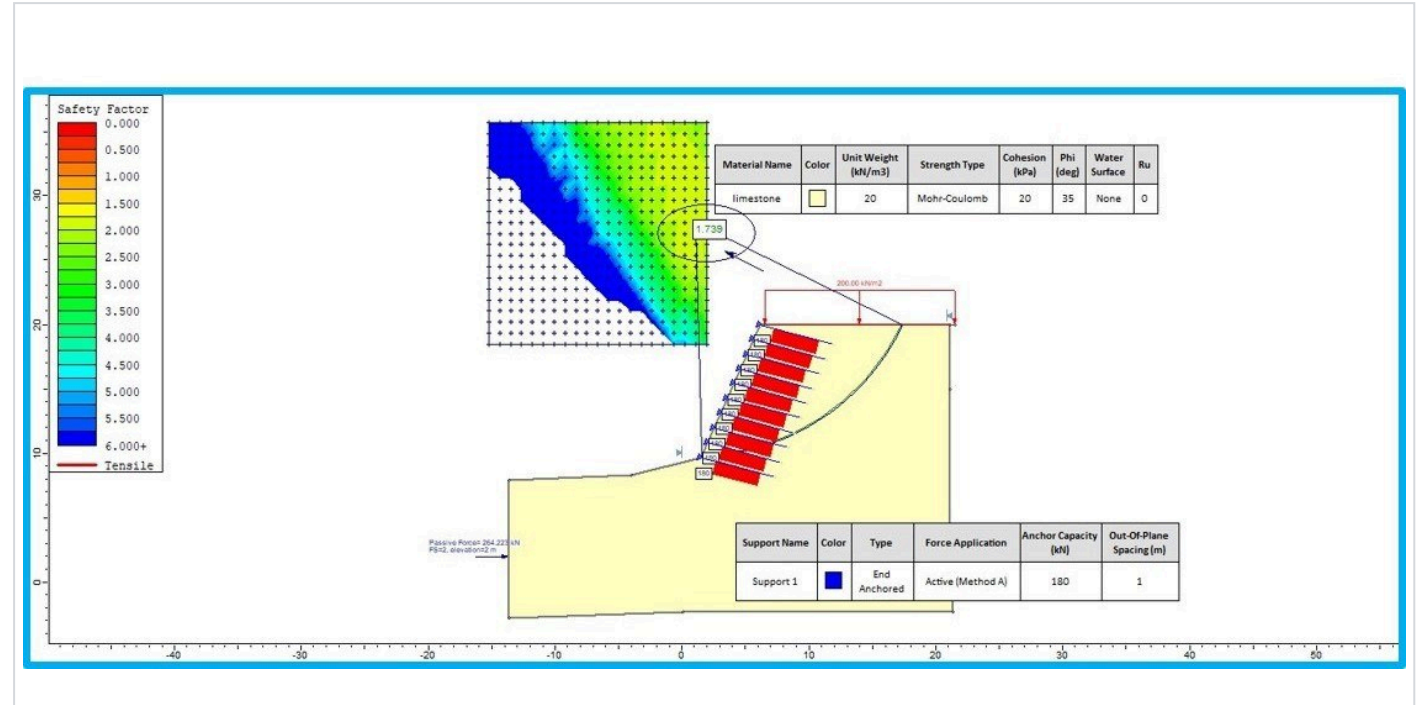
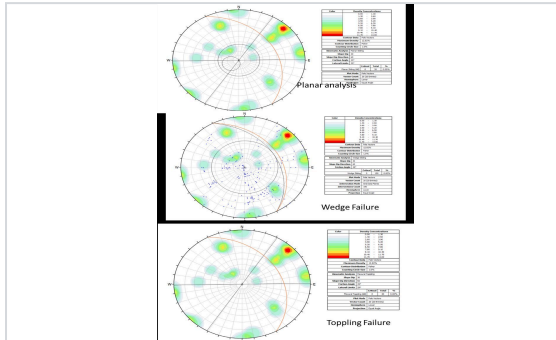
**Commercial Tower — 6 basements, 21 floors**

Al-Sahafa, Riyadh — 2026

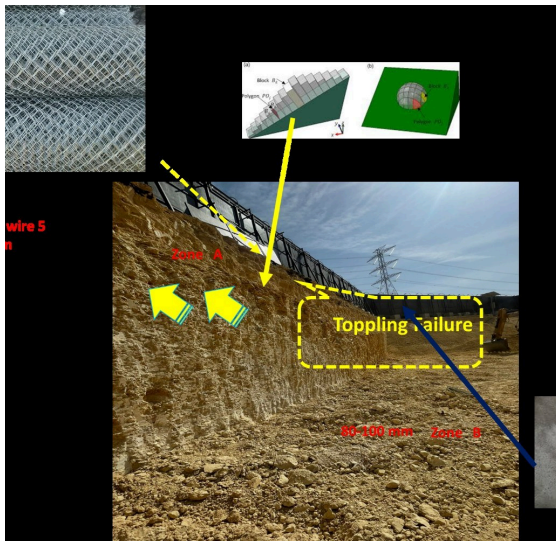


**25-Level Building — 5 basements**

Al-Aqiq, Riyadh — 2026



Limit-equilibrium slope stability model with anchored reinforcement — factor-of-safety contours



## GEOLOGY · SLOPE STABILITY · EXCAVATION SUPPORT

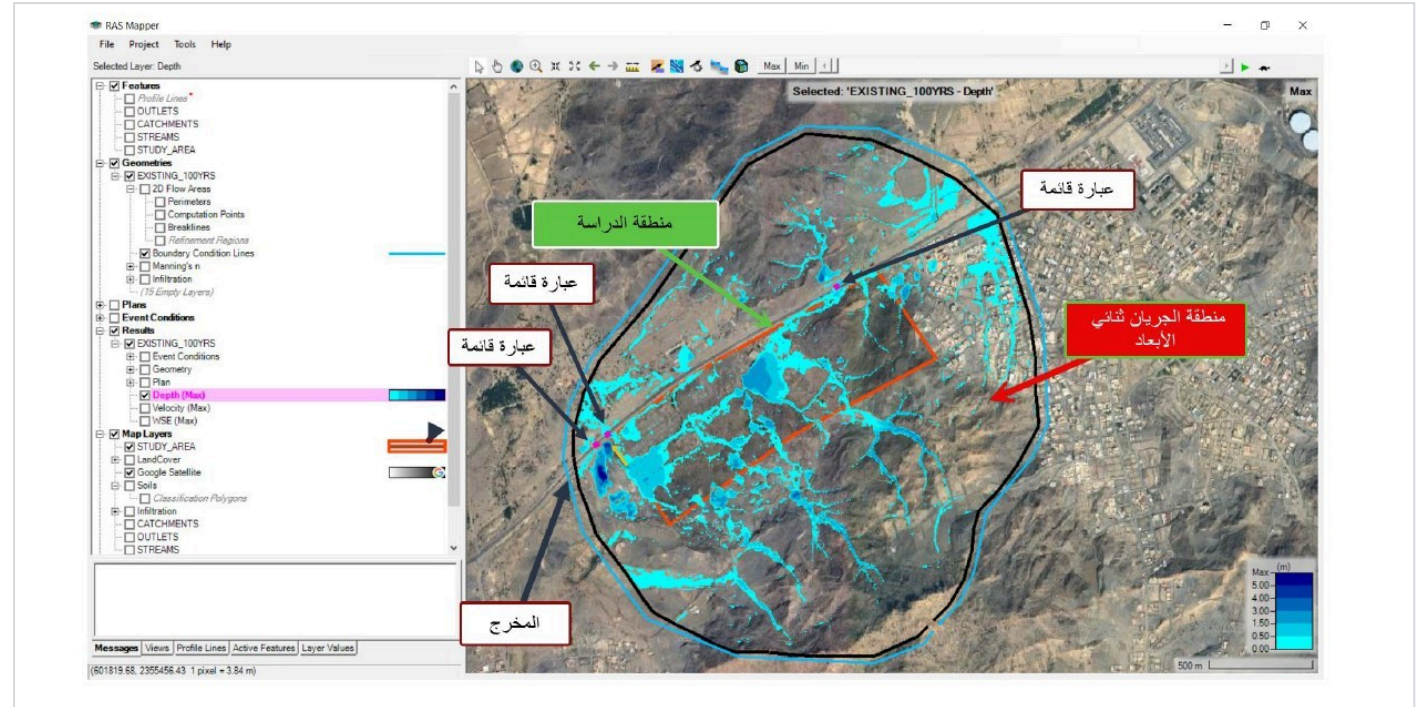
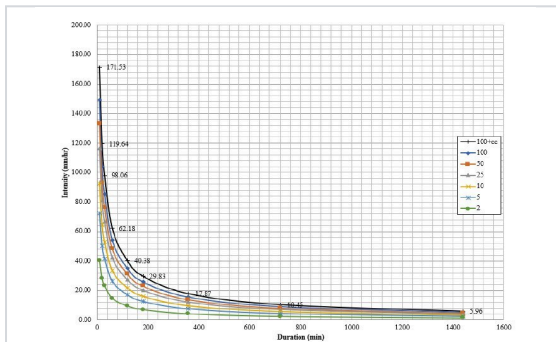
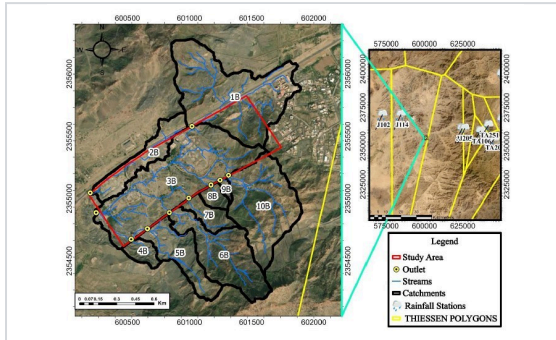
# 25-Level Building — Deep Excavation

Geological study, kinematic and limit-equilibrium slope stability analysis, rockfall assessment and excavation side-support recommendations for a 25-level building (18 floors and 5 basements).

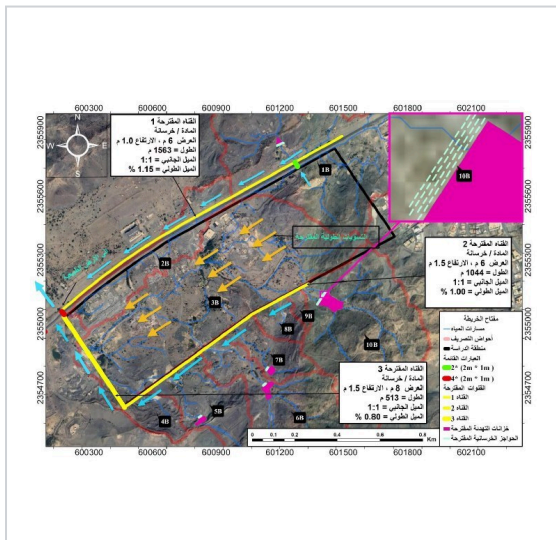
📍 Al-Aqiq, Riyadh — 2026







HEC-RAS 2D flood-depth model of the study area



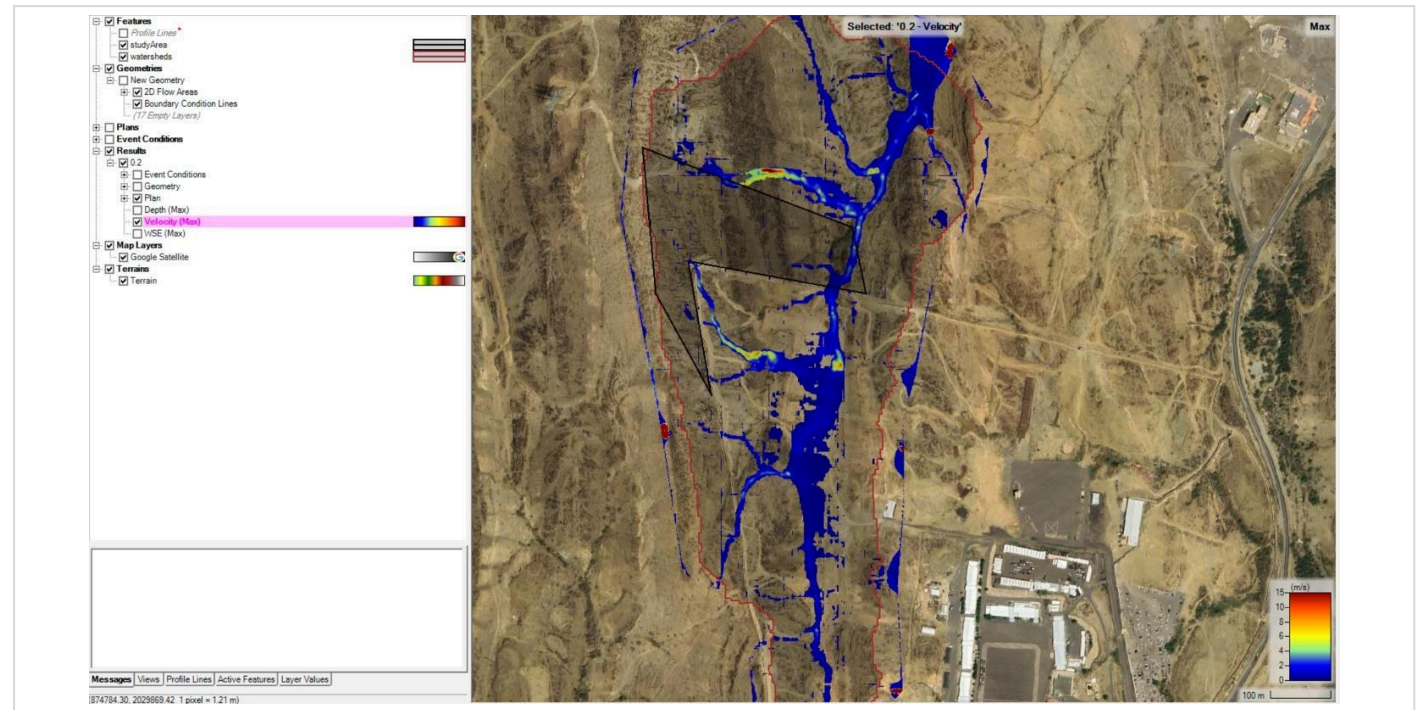
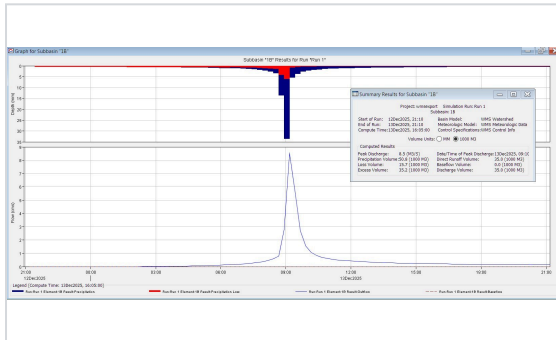
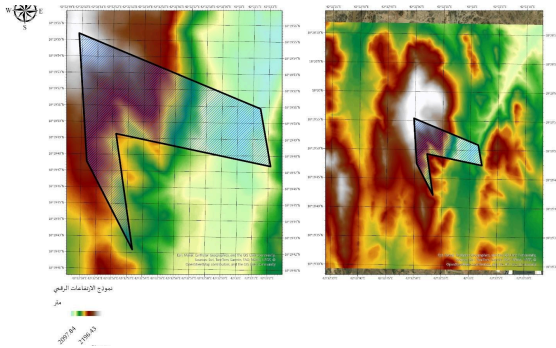
## HYDROLOGICAL & HYDRAULIC STUDY

### Ard Al-Kur Site

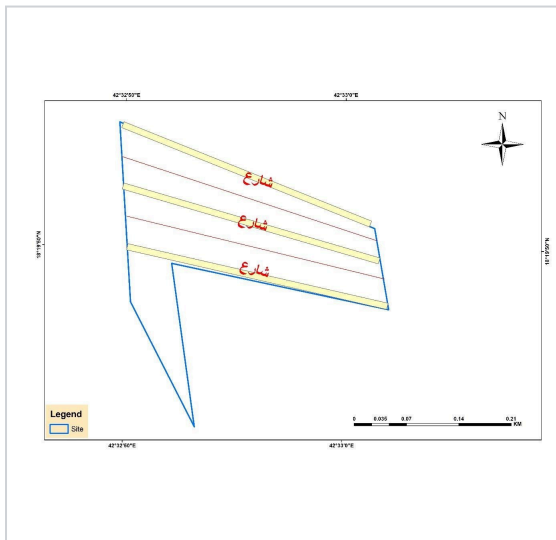
Hydrological and hydraulic study for flood protection — catchment delineation, rainfall frequency analysis, 2D flood modelling and design of protection channels.

📍 Al-Aziziyah, Makkah





HEC-RAS 2D flood-depth mapping — existing conditions



## HYDROLOGICAL STUDY • FLOOD PROTECTION

# Special Emergency Forces Site

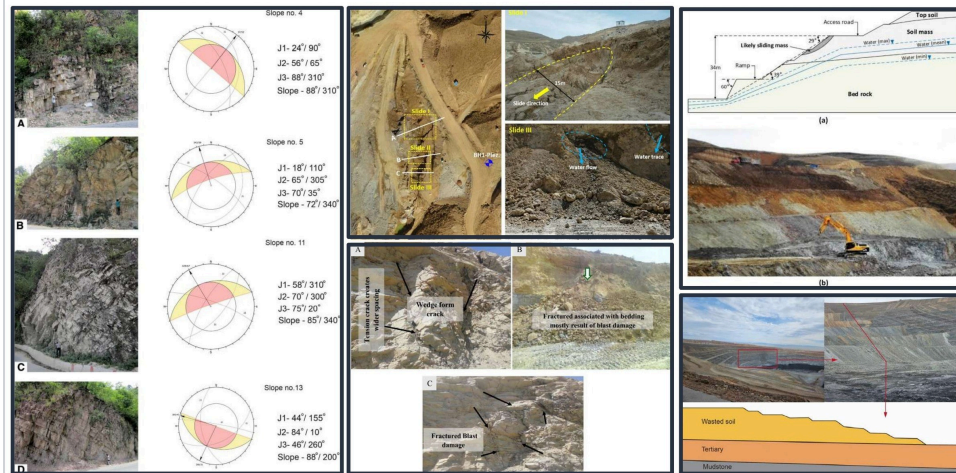
Hydrological study to protect the site from flash floods — DEM analysis, rainfall and runoff modelling, 2D flood mapping and proposed drainage channels, prepared for the Asir Region Municipality.

📍 Asir Region — 2025

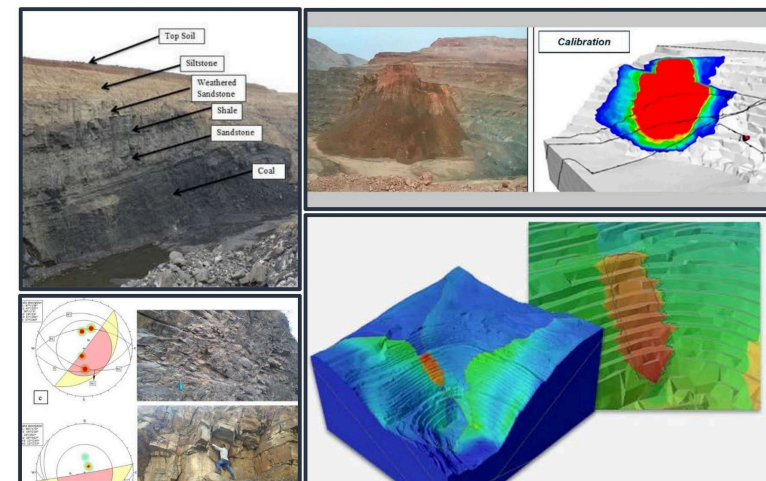




# SLOPE STABILITY & GEOTECHNICS



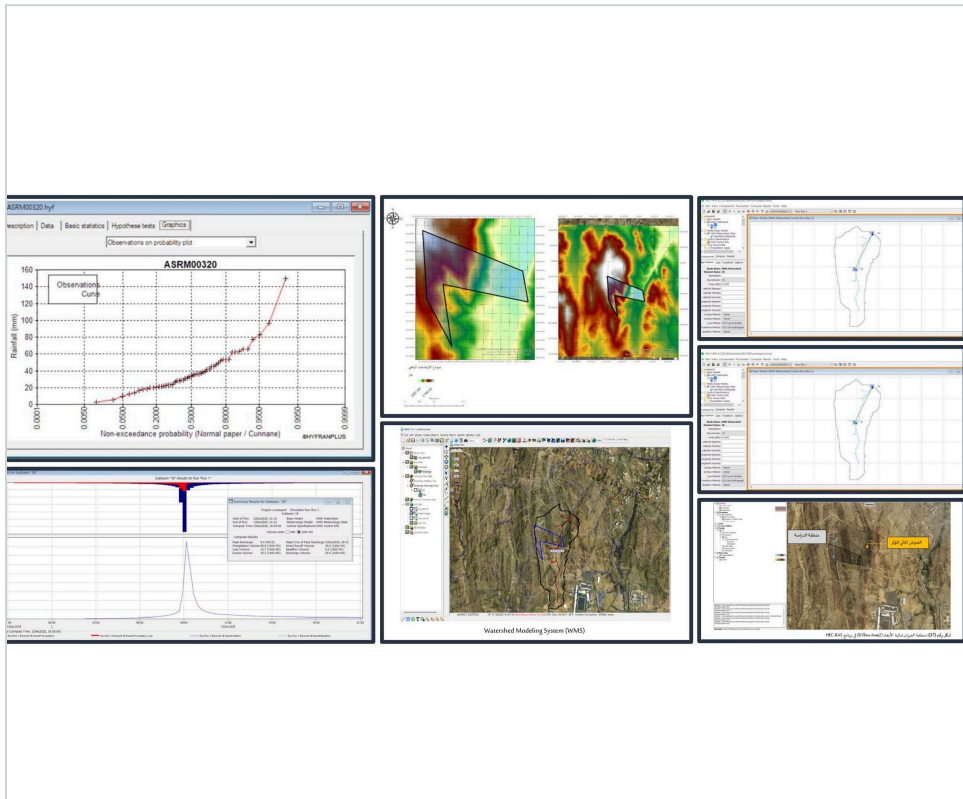
Kinematic analysis, field mapping and failure mechanisms



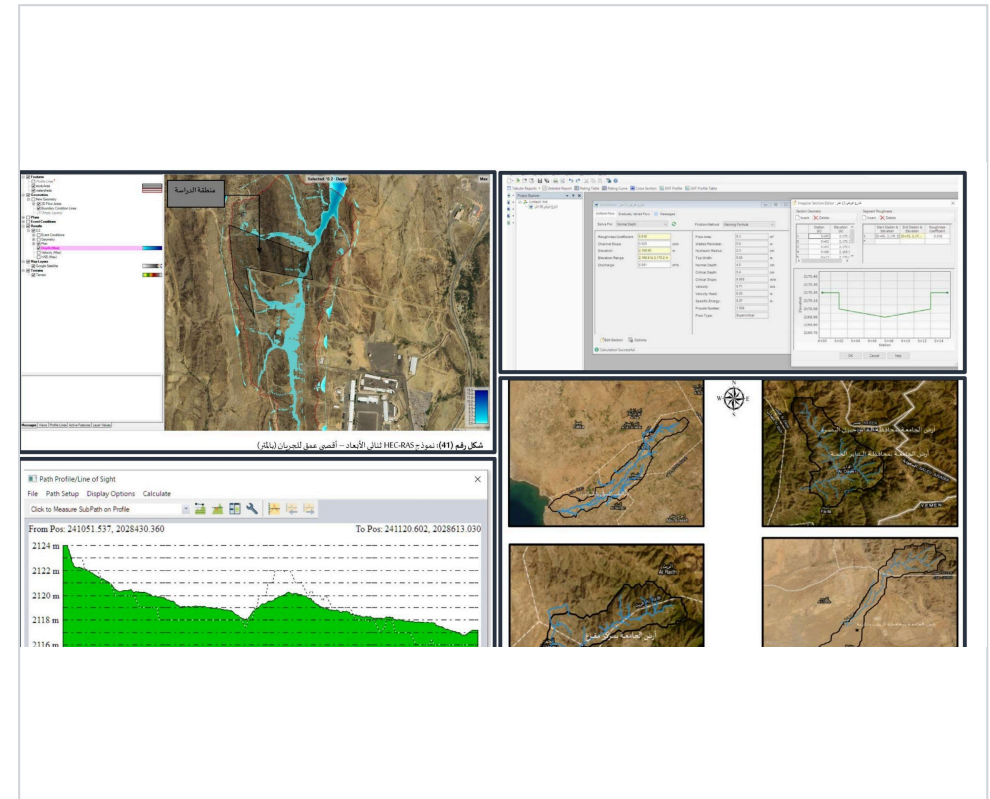
3D slope modelling and stability calibration



# HYDROLOGY & WATER STUDIES



Flood frequency analysis and hydrological modelling



Watershed delineation and hydraulic profiles

## OUR CLIENTS

وزارة المالية  
Ministry of Finance



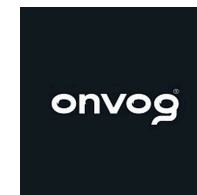
وزارة البيئة والمياه والزراعة  
Ministry of Environment Water & Agriculture



مدينة الملك عبد الله للطاقة  
الذرية والمتجددة K-A-CARE



أمانة عسير  
asēer municipality



## LICENCES & CERTIFICATIONS



وزارة البلديات والإسكان  
Ministry of Municipalities and Housing

رقم الترخيص: 5100003001  
شركة مهنية  
تاريخ الإصدار: 1444/12/02  
تاريخ الانتهاء: 1449/03/13



رؤية  
2030  
VISION 2030  
SAUDI VISION

ترخيص مهني  
ترخيص مهني  
لشركات الاستشارات الهندسية



الهيئة السعودية للمهندسين  
SAUDI COUNCIL OF ENGINEERS

نوع الشركة: شركة مهنية مختلطة  
جنسية الشركة: السعودية  
العنوان: الرياض - صلاح الدين الأيوبي -  
حي الملك عبدالعزيز - الرمز  
البريدي 12233

بناء على نظام مزاولة المهن الهندسية الصادر بالمرسوم الملكي رقم (م/٣٦) وتاريخ ١٩/٤/١٤٣٣هـ، ولأجلته التنفيذية ومعايير مزاولة المهن الهندسية وشروط التراخيص للمكاتب والشركات الهندسية الصادر بالقرار رقم (ج/١٥/٤٠) وتاريخ ٢٤/٧/١٤٤٠هـ

يرخص لشركة / الخط السادس للاستشارات الهندسية

بمزاولة مهنة الاستشارات الهندسية في الأنشطة المهنية التالية:

[ هندسة مائية ، هندسة معمارية ]

أنشطة الدليل الوطني (ISIC4) التي يمكن للشركة ممارستها من خلال الترخيص

|        |                                                          |        |                                           |        |                                        |
|--------|----------------------------------------------------------|--------|-------------------------------------------|--------|----------------------------------------|
| 711015 | الاستشارات الهندسية للتخطيط الحضري                       | 711016 | الاستشارات الهندسية لعمارة البيئة         | 711014 | إدارة المشاريع الإنشائية               |
| 711037 | الاستشارات الهندسية للمياه والصرف الصحي                  | 711013 | أنشطة الاستشارات الهندسية والمعمارية      | 711035 | الاستشارات الهندسية للميكانيكا الحديثة |
| 711036 | الاستشارات الهندسية للموانئ البحرية والنشآت النقل البحري | 711031 | الاستشارات الهندسية للطرق والجسور والافتق |        |                                        |

هوية رقم / 1029181052  
الجنسية / السعودية  
مدير الشركة / سعيد مشهب سعد فتيح

رقم الشهادة: (6)  
تاريخ الطباعة: 8/25/2026  
رقم الترخيص: 5100003001

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(أي كسبت أو تعديلت في هذه الوثيقة بإضيها)



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### شهادة السجل التجاري

شركة الخط السادس للاستشارات الهندسية  
شخص واحد مهنية



البيانات الأساسية للسجل التجاري

7034744883

الرقم الوطني الموحد: 7034744883

تاريخ الإصدار: 18/06/2023

نوع الكيان: شركة ذات مسؤولية محدودة

صفات الشركة: (شخص واحد - مهنية)

حالة السجل: نشط

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