



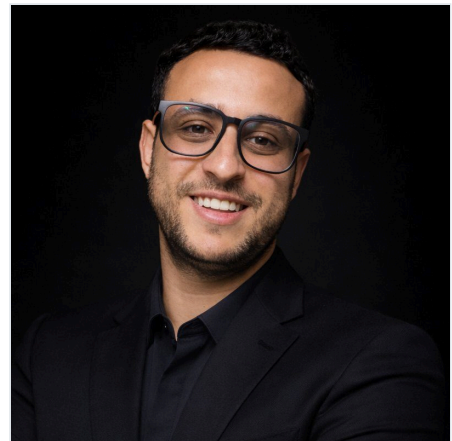
PORTFOLIO • 2021 – 2026

TECHNICAL ARCHITECT • TECHNICAL TEAM LEADER

ABDELRAHMAN KARAM

BRIDGING DESIGN INTENT AND PRECISION CONSTRUCTION

Technical Architect and Technical Team Leader specialising in hospitality, luxury residential and large-scale developments across the UAE, the GCC and East Africa. I connect design intent to construction through advanced BIM, **ISO 19650-aligned information management** and high-resolution technical documentation.



5+

YEARS, CONCEPT TO FIT-
OUT

15+

PROJECTS DELIVERED OR
IN DELIVERY

400+

DETAIL SHEETS AUTHORED

4

COUNTRIES: UAE, KSA,
EGYPT, TANZANIA

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THE BRIDGE BETWEEN DESIGN AND SITE

5+ years delivering complex projects from schematic design to fit-out: ultra-luxury mansions at **Sobha Hartland**, authority-regulated public infrastructure for **Dubai RTA**, housing and mixed-use schemes in Saudi Arabia and Egypt, and now the **Anantara Zanzibar** resort with **Infinity Developments**, with AI-enabled workflows built into technical delivery.

My core strength is technical coordination at high resolution. I act as the interface between architecture, structure, MEP, landscape, lighting, hospitality operators and specialist consultants, and I work across the full digital delivery stack: **Revit, Navisworks, Revizto, Autodesk Construction Cloud and BIM 360, AutoCAD, Dynamo and pyRevit, and IFC/openBIM**, with Enscape, D5 Render and Lumion for design review. The result is coordinated models, IFC packages, shop drawings and documentation that are buildable and ready for authority submission.

As Technical Team Leader at **Infinity Developments**, I lead a team of BIM modellers producing Revit models and IFC packages, coordinate the consultant team across a pipeline of hospitality and residential projects, and bring applied AI into everyday technical delivery.

BASED IN	Dubai, United Arab Emirates
CURRENT ROLE	Technical Team Leader, Infinity Developments
EXPERIENCE	Since September 2021 · UAE, KSA, Egypt, Tanzania
SECTORS	Hospitality, luxury residential, mixed-use, transport
STANDARDS	ISO 19650 · IFC2X3 CV 2.0 · Dubai Municipality · RTA
TRAINING	Autodesk BIM diplomas · BSI ISO 19650
EDUCATION	BSc Architecture, Ahrām Canadian University
LANGUAGES	English (proficient)

WHAT I DELIVER

MODELS COORDINATION Federated model reviews, clash detection and issue tracking across architecture, structure and MEP in Navisworks and Revizto. Design conflicts are closed in the model before they reach site.	DRAWINGS DOCUMENTATION DD packages, Dubai Municipality submittals, IFC drawing packages, mock-ups, shop drawings and as-built records, issued through a controlled common data environment.
STANDARDS STANDARDISATION ISO 19650 templates, naming conventions, Uniclass classification and shared parameters that keep information consistent across teams and consultants.	AI AI AND AUTOMATION AI workflows in technical delivery and digital construction: model QA, data extraction, drawing checks and agent-assisted modelling, with a review gate on every output.

EXPERIENCE

Apr 2026 to nowDubai, UAE **CURRENT****TECHNICAL TEAM LEADER**

Infinity Developments

- Lead a team of BIM modellers producing Revit models and IFC drawing packages for a Zanzibar hospitality and residential portfolio
- Manage IFC packages from drawing register to issue: Anantara G+4 hotel suites (45 sheets), 3-BHK villas (29 sheets) and Infinity Hills Block C
- Coordinate MEP, structure, landscape, lighting, ICT and F&B consultants, from RFQs and scopes to deliverable tracking

Jul 2025 to Apr 2026

Dubai, UAE

TECHNICAL ARCHITECT

PNC Architects

- Design drawings prepared to project standards and local regulations for ultra-luxury mansions at Sobha Hartland
- Dubai Municipality submittal drawings, checked against the applicable codes
- ACC work-sharing submittals and revisions for smooth contractor execution

Feb 2025 to Jun 2025

Cairo, Egypt

TECHNICAL ARCHITECT

REDCON Construction Co.

- BIM-based quality control procedures for accurate, consistent and complete digital deliverables
- Coordinated shop drawings produced in BIM for architectural elements and systems
- Technical and coordination issues resolved through model-based clash detection

Jul 2024 to Feb 2025

Saudi Arabia (back office)

TECHNICAL COORDINATOR

Alraem International Real Estate Development (ARACO)

- End-to-end design development for high-rise residential and hotel apartment buildings, from preliminary design to tender documents
- Engineering designs and multidisciplinary BIM models reviewed against project requirements and standards
- Design conflicts resolved between structural, mechanical, electrical and architectural disciplines

Jan 2024 to Jul 2024

Saudi Arabia (back office)

TECHNICAL ARCHITECT

Alraem International Real Estate Development (ARACO)

- Construction drawings: plans, elevations, sections and details
- Shop drawings, specifications for materials, finishes and construction methods
- ACC work-sharing submittals, IFC drawings, mock-ups and as-built documentation

Jun 2022 to Jan 2024

Cairo, Egypt

JUNIOR ARCHITECT

TurnKey Developments

- Floor plan layouts from area schedules: GFA, BUA, parking, unit mix and saleable-area efficiency
- Shop drawings for multiple building packages, specifications and quality checks on construction documents
- Tender process: bidder queries, bid evaluation against tender documents, contract negotiation and post-tender analysis

Sep 2021 to Jul 2022

Cairo, Egypt

JUNIOR ARCHITECT, SITE BASED

TurnKey Developments

- Site compliance with architectural drawings, specifications and building codes
- Inspection of materials and workmanship, with corrective actions
- Design issues resolved on site with the technical office, contractors and subcontractors

AI ACROSS TECHNICAL DELIVERY

Construction technology moves fastest where project information is structured. I apply AI to that information layer, reading drawing sets, checking models, extracting data and running repeatable modelling steps, while engineering judgement and the final review stay with the team.

AGENTIC BIM

MODELLING AND MODEL QA

Language-model agents connected to Revit through MCP build and audit models to a written method: seven review stages and twenty QA gates, read-only health checks before any edit, and every review comment turned into a new rule.

REVIT API

DRAWING PRODUCTION ADD-INS

A custom C# add-in builds IFC drawing packages from the drawing register: views, ISO 19650 sheet numbering, annotation, sheet composition, QA and PDF/DWG export, all driven by JSON rule profiles. A companion tool auto-dimensions plans.

OPENBIM

IFC ACCEPTANCE GATE

IFC2X3 Coordination View exports with mapped classes, checked by an automated ifcopenshell gate for georeferencing, units, spaces, classification, property sets and quantities before issue.

DESIGN REVIEW

AI DRAWING REVIEW

Drawing packages checked for title blocks, levels, tags, codes and design standards, with a mandatory verification pass. Output: a graded comment register and a marked-up visual report for the design team.

PROCUREMENT

RFQS AND CONSULTANT TRACKING

AI-assisted consultant RFQ suites with building-by-system scope matrices and fee returns, proposal gap analysis against the RFQ, and a multi-consultant tracker by building and discipline.

KNOWLEDGE

PROJECT KNOWLEDGE GRAPHS

The BIM standard and project history indexed as knowledge graphs, so agents and the team query the source before they answer or act.

DELIVERY PIPELINE

STAGE A	STAGE B	STAGE C	STAGE D	STAGE E	STAGE F
DESIGN INTENT	AUTHOR	COORDINATE	ASSURE	ISSUE	APPROVE
Concept, area schedules, GFA and BUA, unit mix, efficiency and parking studies.	Revit models to LOD 350–450 with data-rich families, levels, grids and shared parameters.	Federated reviews and clash tests in Navisworks and Revizto, issues tracked in ACC and BIM 360.	ISO 19650 checks on naming, metadata and containers, plus AI-assisted model QA before release.	IFC packages, DD packages, shop drawings and mock-ups, with tender and BOQ support.	Dubai Municipality and RTA submittals, then as-built records and digital handover.

TOOLCHAIN

AUTHOR

- Autodesk Revit
- AutoCAD
- SketchUp
- Revit families and templates

VISUALISE

- Enscape
- D5 Render
- Lumion
- Adobe Photoshop
- AI-assisted rendering

COORDINATE

- Navisworks
- Revizto
- Autodesk Construction Cloud
- BIM 360
- IFC / openBIM (IFC2X3 CV 2.0)

AUTOMATE

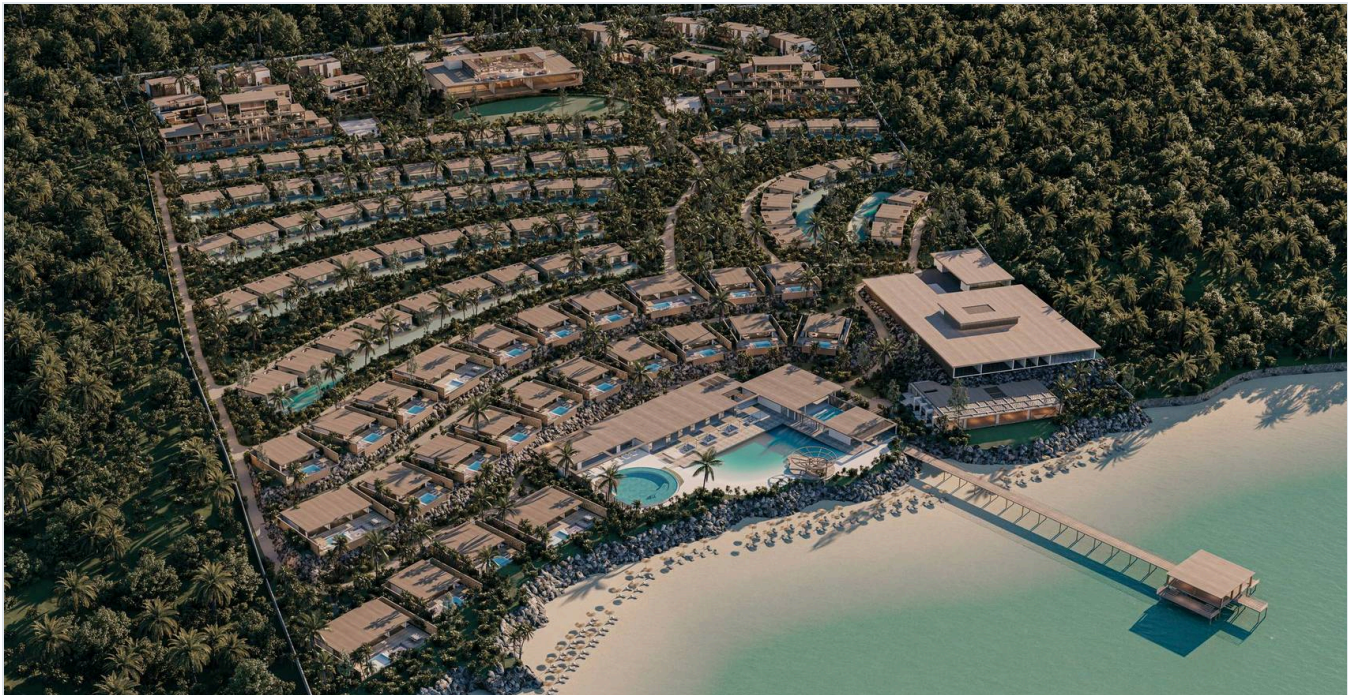
- LLM agents integrated with Revit (MCP)
- C# Revit API add-ins
- Dynamo and pyRevit
- Python: ifcopenshell, ezdxf, openpyxl
- Knowledge graphs

CERTIFICATIONS AND EDUCATION

- BIM Architecture Diploma** Autodesk · Autodesk
- BIM Structure Diploma** Autodesk · Autodesk
- BIM Coordination** Autodesk · Autodesk
- BIM Management Diploma** Autodesk · Issued Jul 2024
- ISO 19650 Parts 1–6 · BIM Fundamentals** BSI training · 2026

Bachelor's degree in Architecture, Ahram Canadian University, Cairo (2017 to 2021). Languages: English (proficient).

ANANTARA ZANZIBAR RESORT & RESIDENCES



A five-star beachfront resort and residences in Nungwi, on the north coast of Zanzibar, developed by Infinity Developments for the Anantara brand. The masterplan steps down a wooded slope to the beach: 132 lagoon suites, two G+4 hotel suites buildings, 1-, 2- and 3-bedroom villas, reception, spa and gym, beach club, restaurants, conference centre and back-of-house buildings.

ROLE AND DELIVERABLES

- Lead the BIM modelling team producing Revit models and IFC packages
- G+4 hotel suites IFC submission (45 sheets) and 3-BHK villa IFC package (29 sheets, three issues)
- 720-sheet master IFC drawing register with ISO 19650 naming
- Consultant coordination: MEP, structure, landscape, lighting, ICT and F&B
- Project Revit template: survey coordinates, Uniclass and shared parameters

CLIENT / DEVELOPER

Infinity Developments • operator
Anantara (Minor Hotels)

LOCATION

Nungwi, Zanzibar, Tanzania

TPOLOGY

Beach resort and residences

LAND AREA

Not published

BUILT-UP AREA

≈33,300 m² (FOH 21,556 + BOH 11,744)

FLOORS

Up to G+4

UNITS

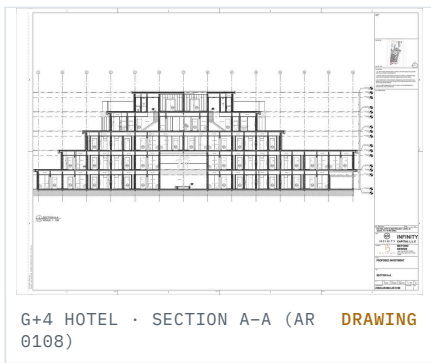
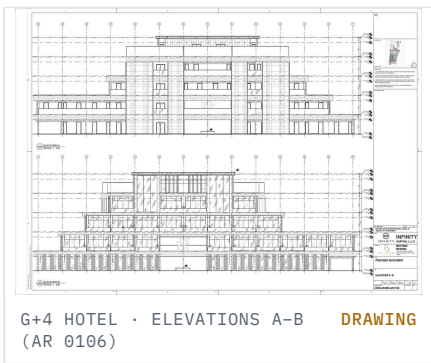
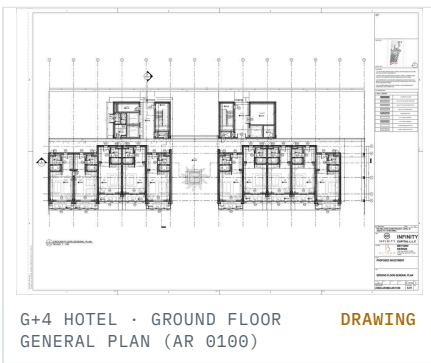
231 keys

STATUS

Under construction

MY ROLE

Technical Team Leader, Infinity Developments



BINDU MENON MANSION

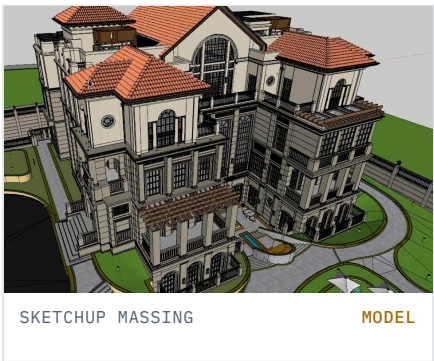
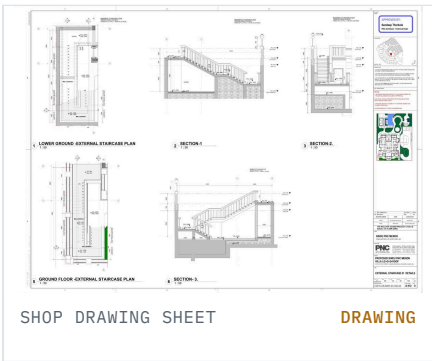


An ultra-luxury private mansion in Sobha Hartland with a classical stone facade, tall curtain-wall openings and landscaped terraces. The work covered the full technical chain: massing and context studies, SketchUp development, a Revit model at LOD 450, architectural shop drawings, multidisciplinary coordination, and the DD and Dubai Municipality packages.

ROLE AND DELIVERABLES

- Architectural shop drawings
- Revit modelling to LOD 450
- SketchUp updates and modelling
- Coordination with structure, MEP and landscape
- DD package transmittals

CLIENT / DEVELOPER	Private client • master developer Sobha Realty
LOCATION	Sobha Hartland II, MBR City, Dubai
TPOLOGY	Private ultra-luxury mansion
LAND AREA	Not published
BUILT-UP AREA	Not published
FLOORS	Not published
UNITS	1 residence
STATUS	Design and DM submittal
MY ROLE	Technical Architect, PNC Architects



PNC MENON MANSION

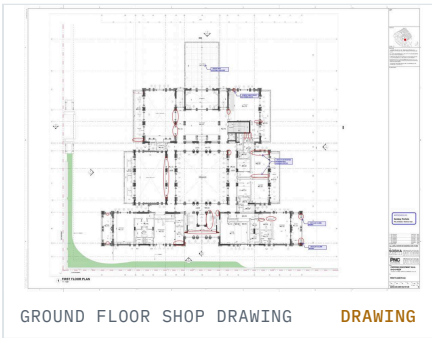


The residence of the Sobha founder at Sobha Hartland. A fully modelled Revit project at LOD 450 drove the architectural shop drawings for plans, sections, elevations, access hatches and water features, followed by as-built model updates for handover.

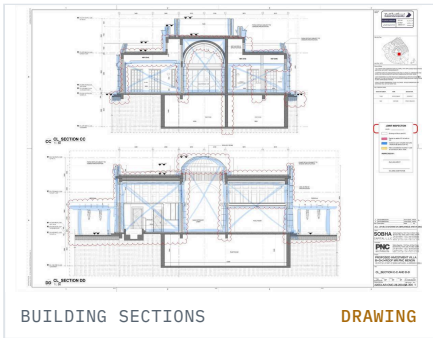
ROLE AND DELIVERABLES

- Architectural shop drawings
- As-built model updates
- Revit modelling to LOD 450
- Coordination with the other disciplines

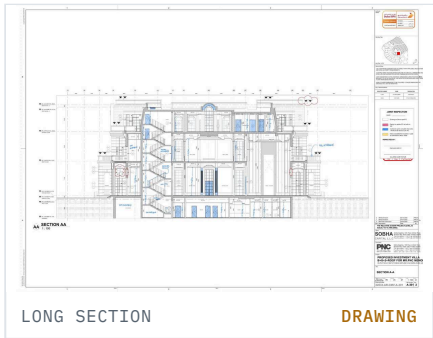
CLIENT / DEVELOPER	Sobha founder (private) • master developer Sobha Realty
LOCATION	Sobha Hartland II, MBR City, Dubai
TPOLOGY	Private ultra-luxury mansion
LAND AREA	Not published
BUILT-UP AREA	Not published
FLOORS	Not published
UNITS	1 residence
STATUS	Shop drawings and as-built
MY ROLE	Technical Architect, PNC Architects



GROUND FLOOR SHOP DRAWING **DRAWING**



BUILDING SECTIONS **DRAWING**



LONG SECTION **DRAWING**

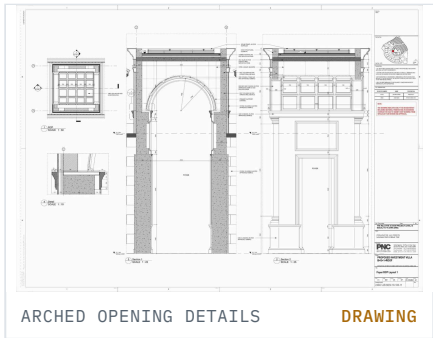
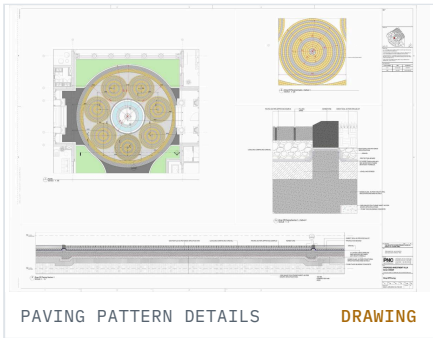
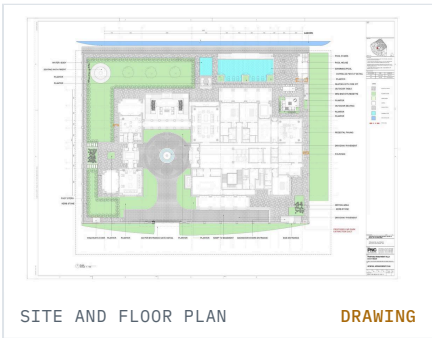


A private mansion at Sobha Hartland documented from a coordinated Revit model. The drawing set runs from site and floor plans through elevations and sections to pool, water feature, paving pattern and arched opening details.

ROLE AND DELIVERABLES

- Revit model and SketchUp study
- Site, floor and landscape plans
- Elevations and sections
- Pool, water feature and paving details
- Arched opening and facade details

CLIENT / DEVELOPER	Private client • master developer Sobha Realty
LOCATION	Sobha Hartland II, MBR City, Dubai
TPOLOGY	Private ultra-luxury mansion
LAND AREA	Not published
BUILT-UP AREA	Not published
FLOORS	Not published
UNITS	1 residence
STATUS	Shop drawings
MY ROLE	Technical Architect, PNC Architects



METRO AND TRAM DUBAI



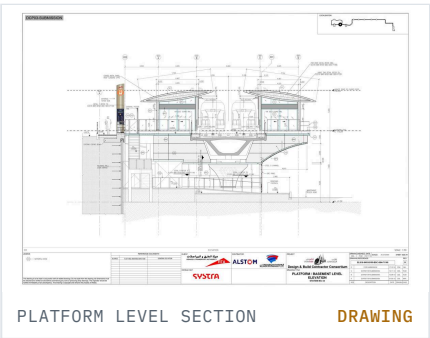
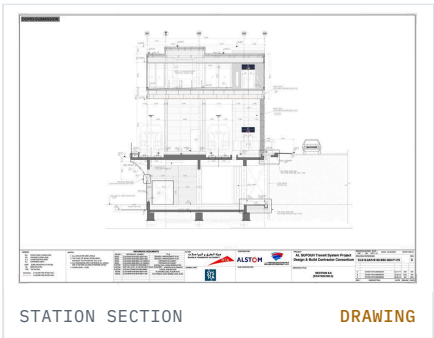
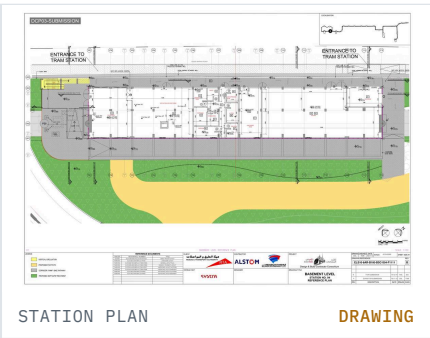
Post-project digital delivery for the Dubai Metro and Tram network. The digital functional breakdown was managed directly with RTA, the Revit models were optimised, and the architectural drawing submittals were maintained to RTA requirements.

ROLE AND DELIVERABLES

- Project digital functional breakdown, managed directly with RTA
- Revit model optimisation
- Architectural drawing submittals maintained to RTA requirements

Architecture	Automatic Fare Collection	Building Services	
Civil and Structural	Commercial and Retail		
Coordination and Interfacing	Depot Equipment		
Engineering Governance	IT Systems	Operational Control	
Platform Screen Doors	Power Distribution		
Rail Maintenance Strategy	Projects Delivery	QHSE	
Rail Management System	Rolling Stock	Signalling	Track
Telecommunications	Traffic, Roads and Landscaping	Utilities	

CLIENT	Dubai RTA
TYPE	Metro and tram stations
SCOPE	Post-project digital delivery
BREAKDOWN	22 functional areas



GOLDEN GATE MALL



Golden Gate is a mixed-use development of 29 office and retail buildings on a 160,000 m² site on South 90th Street, New Cairo, developed by Redcon Properties and built by REDCON Construction. The work covered the Revit model and coordinated shop drawings: plans, elevations, facade, signage and shopfront details.

ROLE AND DELIVERABLES

- Revit model of the commercial blocks
- Plans, elevations and sections
- Facade, signage and shopfront details
- Shop drawing packages

CLIENT / DEVELOPER

Redcon Properties · contractor
REDCON Construction

LOCATION

South 90th Street, New Cairo,
Egypt

TPOLOGY

Mixed-use offices and open-street
retail

LAND AREA

160,000 m²

BUILT-UP AREA

250,000 m²

FLOORS

Not published

UNITS

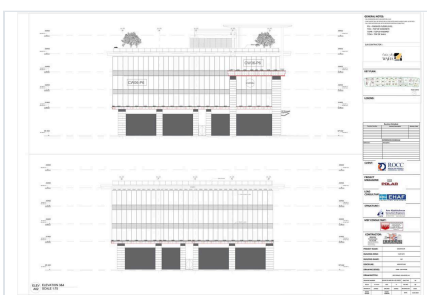
29 buildings

STATUS

Ongoing

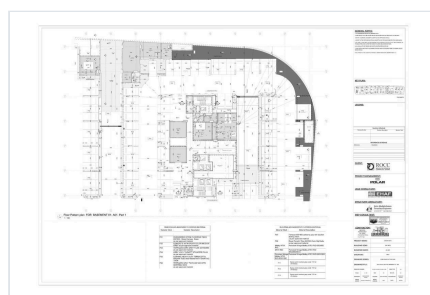
MY ROLE

Technical Architect, REDCON
Construction



ELEVATIONS SHEET

DRAWING



FLOOR PLAN SHEET

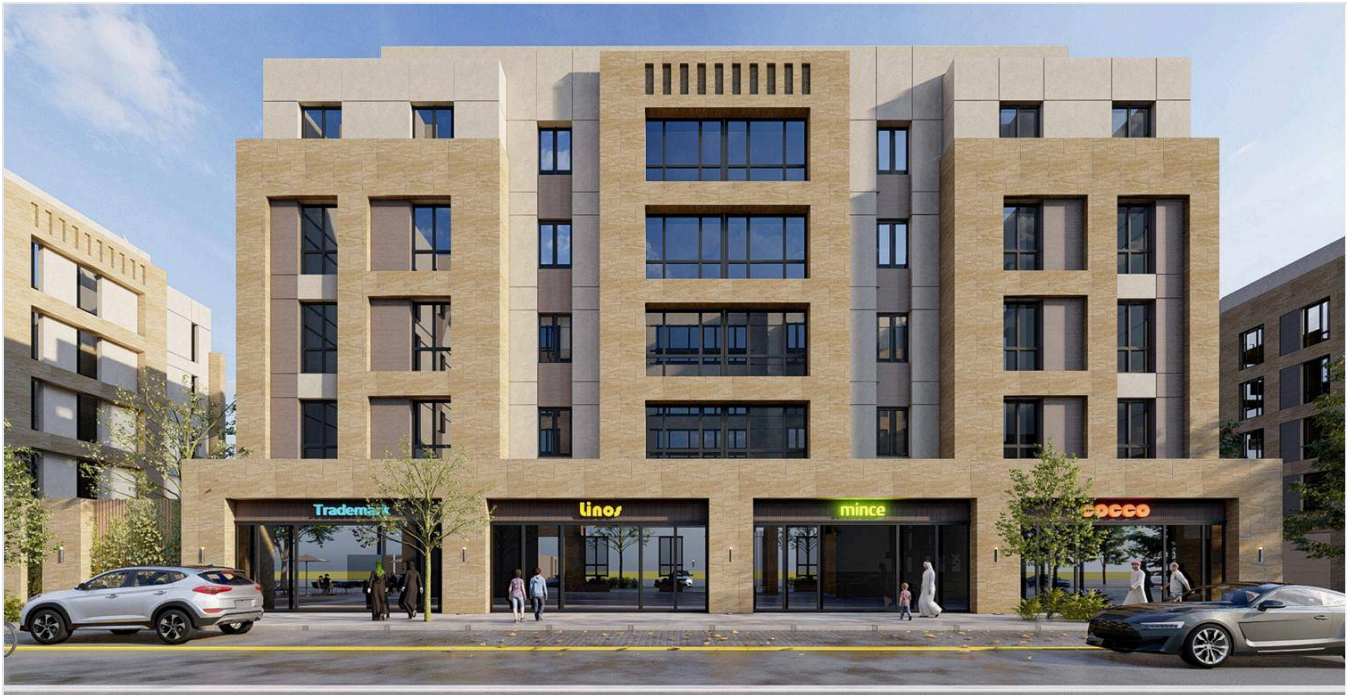
DRAWING



REVIT MODEL

MODEL

AWALI ALFORSAN

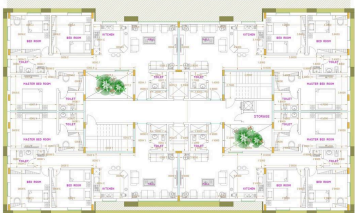


A residential and commercial scheme of 23 buildings and 437 units over 60,518 m² in NHC's Al Fursan destination, Riyadh, delivered by ARACO. Work covered unit plans, area calculations, facade development and the Revit model.

ROLE AND DELIVERABLES

- Unit planning and area calculations
- Facade development
- Revit model
- Floor plans, sections and schedules

CLIENT / DEVELOPER	ARACO · within NHC's Al Fursan destination
LOCATION	Al Fursan, Riyadh, Saudi Arabia
TPOLOGY	Residential with retail, 23 buildings
LAND AREA	60,518 m ²
BUILT-UP AREA	Not published
FLOORS	Not published
UNITS	437 units
STATUS	Marketed (NHC)
MY ROLE	Technical Architect / Technical Coordinator, ARACO



TYPICAL FLOOR PLAN

DRAWING



REVIT MODEL

MODEL



REVIT MODEL, REAR

MODEL

AWALI AL NARJES

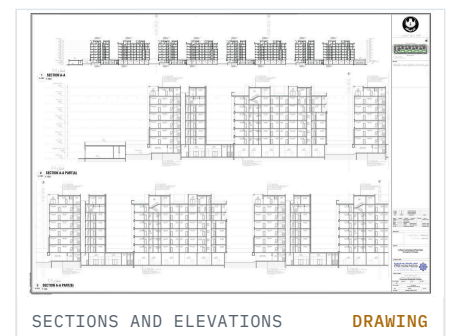
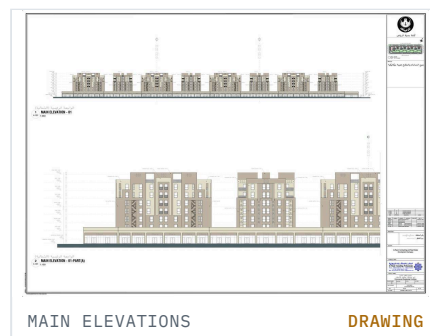
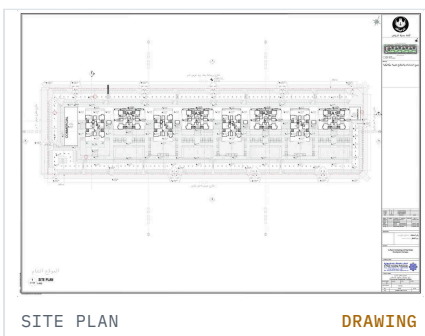


Eight residential buildings of 25 units each (200 apartments and duplexes) over ground-floor shops and a basement car park, on a 43,896 m² site in the Khuzam suburb of north Riyadh, developed by ARACO in partnership with NHC. The package covers the site plan, main elevations, sections, door and aluminium details and construction joint details, issued through Autodesk Construction Cloud.

ROLE AND DELIVERABLES

- Site plan and main elevations
- Sections and elevations
- Door, window and aluminium detail packages
- ACC submittals and IFC drawings

CLIENT / DEVELOPER	ARACO in partnership with NHC
LOCATION	Khuzam, north Riyadh, Saudi Arabia
TPOLOGY	Apartments and duplexes over ground-floor shops
LAND AREA	43,896 m ²
BUILT-UP AREA	Not published
FLOORS	Basement + ground + 7.5
UNITS	200 units (8 buildings)
STATUS	Under development
MY ROLE	Technical Architect / Technical Coordinator, ARACO



AL ASALAH



A developmental housing scope of 34 buildings and 476 units in the Al Asalah area of Uraydh, Riyadh, delivered turnkey by ARACO in four phased handovers, documented with typical floor plans, sections, elevations and door schedules.

ROLE AND DELIVERABLES

- Typical floor plans
- Sections and elevations
- Door details and schedules
- Design drawing package

CLIENT / DEVELOPER

Developmental housing programme • works by ARACO

LOCATION

Al Asalah, Uraydh, Riyadh, Saudi Arabia

TYPOLOGY

Developmental housing, turnkey

LAND AREA

Not published

BUILT-UP AREA

Not published

FLOORS

Not published

UNITS

476 units (34 buildings)

STATUS

Phased handover

MY ROLE

Technical Architect / Technical Coordinator, ARACO



SECTION SHEET

DRAWING



CORNER RENDER

RENDER

CONTACT

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INTERACTIVE PORTFOLIO

abkaram-portfolio.pages.dev

The interactive version includes a live BIM model viewer, a capability map and an AI assistant that answers questions about this work.