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**COORPRATE COMPANY
PROFILE 2026**



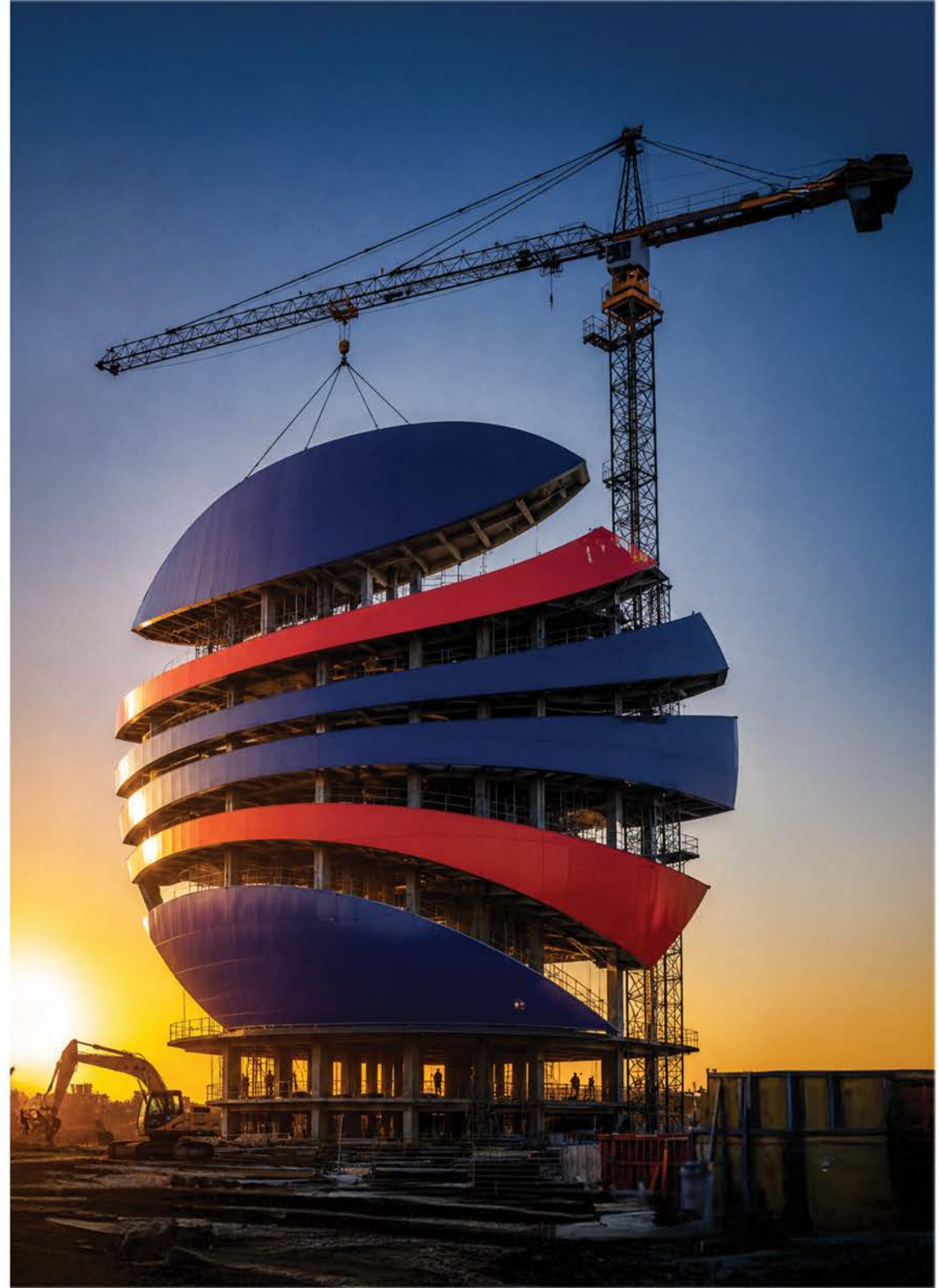
**PLUTO EMC
EGYPT**

**MEP ENGINEERING, BIM ,
MEP DESIGN &
TECHNICAL OFFICE SOLUTIONS
ENGINEERING MEP EXCELLENCE,
POWERING PROJECT SUCCESS**



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CHAIRMAN MESSAGE

At PLUTO EMC, we believe that every successful project is built on trust, quality, and a commitment to excellence. Since our inception, our mission has been to deliver engineering and construction solutions that consistently exceed our clients' expectations.

Our greatest asset is our people. Through their expertise, dedication, and passion, we have built lasting relationships with clients, consultants, and partners by delivering projects safely, on time, and to the highest quality standards.

As we continue to grow, we remain committed to innovation, integrity, and continuous improvement. We view every project as an opportunity to create lasting value and contribute to the development of stronger communities and infrastructure.

On behalf of the entire PLUTO EMC team, I thank you for your trust & interest in our company. We look forward to building successful partnerships and shaping the future together.

Sincerely,

Eng Ayman Alonays

Chairman
PLUTO EMC



MANAGING DIRECTOR MESSAGE

Dear Clients, Partners, and Industry Professionals,

Welcome to PLUTO EMC Egypt

Since our establishment, our vision has been clear: to build a trusted engineering services organization capable of delivering world-class engineering support solutions to contractors, consultants, developers, & project owners across the Middle East, Europe, Africa & North America.

The construction industry is rapidly evolving through digital transformation, Building Information Modeling (BIM), & integrated engineering workflows.

At PLUTO EMC Egypt, we embrace these changes by combining engineering expertise, advanced technology, & practical construction knowledge to provide innovative and cost-effective solutions.

Over the past three years, our team has successfully supported numerous projects in Egypt, the UAE, and the Gulf region, delivering MEP engineering design, BIM modeling, shop drawings, coordination drawings, MEP design package for projects, quantity take-offs, and technical office services that have contributed to successful project delivery.

Our commitment extends beyond producing drawings. We focus on creating value for our clients through engineering excellence, quality assurance, technical accuracy, and timely delivery.

As we continue expanding into international markets, we remain dedicated to becoming a strategic engineering partner for construction companies worldwide.

We thank our clients, partners, and team members for their trust & support.

Sincerely,

Tarek Gad

Managing Director
PLUTO EMC Egypt





Company Overview

PLUTO EMC Egypt is a specialized engineering services company providing comprehensive MEP Engineering Design, BIM Modeling, Revit Services, CAD Drafting, Shop Drawings, Technical Office Support, Quantity Surveying, and Engineering Outsourcing Solutions.

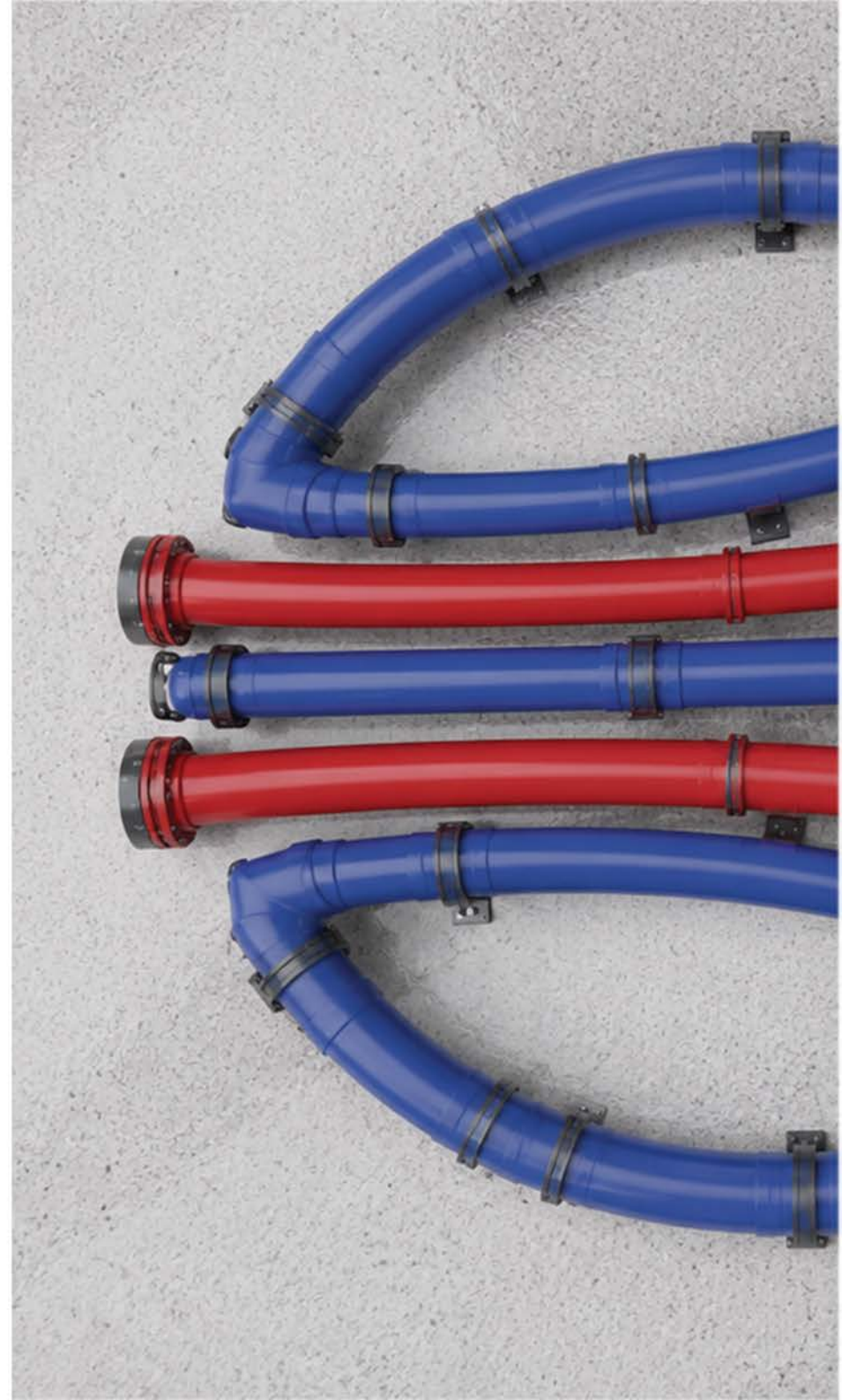
Established in 2023, the company was founded to serve as a professional engineering support center for construction companies, engineering consultants, developers, and project owners.

Today, PLUTO EMC Egypt operates as a trusted MEP (Mechanical, Electrical & Plumbing) Engineering Back-Office Partner, delivering high-quality engineering solutions that help organizations reduce operational costs, improve productivity, optimize resources, and accelerate project delivery.

Our mission extends beyond traditional engineering support. We act as a strategic engineering arm for consulting firms, MEP contractors, developers, and design-build organizations, providing scalable engineering resources and technical expertise that seamlessly integrate with our clients' teams and workflows.

Through our multidisciplinary engineering capabilities, we support projects throughout the entire project lifecycle—from concept design and tender preparation to construction documentation, BIM coordination, shop drawings, and project closeout deliverables.

PLUTO EMC Egypt provides a complete range of engineering support services, including MEP design development, BIM and Revit modeling, CAD drafting, clash detection and coordination, shop drawing production, technical office services, quantity surveying, material take-offs, technical submittals, and construction documentation.





In addition, we support consultants, contractors, and developers during the tendering and procurement stages by preparing complete tender packages, including design drawings, specifications, Bills of Quantities (BOQs), quantity take-offs, technical documentation, and bidding support packages that comply with international engineering standards.

As an engineering delivery center, PLUTO EMC Egypt enables organizations to expand their engineering capacity without increasing overhead costs, providing dedicated engineering teams, BIM specialists, technical office engineers, and CAD professionals tailored to project-specific requirements.

Our expertise spans residential, commercial, hospitality, healthcare, industrial, infrastructure, and mixed-use developments across Egypt, the GCC, and international markets.

By combining engineering excellence, BIM-driven workflows, digital collaboration platforms, and international best practices, PLUTO EMC Egypt has positioned itself as a reliable engineering partner capable of supporting consultants, contractors, & developers in delivering coordinated, accurate, & construction ready solutions for projects of all sizes and complexities.

At PLUTO EMC Egypt, we do not simply produce drawings; we provide integrated engineering solutions that help our clients design, coordinate, document, and deliver successful projects with confidence.



Vision

To become the preferred MEP engineering partner for contractors, consultants, developers, and project owners worldwide, delivering innovative Mechanical, Electrical, and Plumbing (MEP) engineering solutions that enhance project performance, improve constructability, and drive successful project outcomes.

We aspire to be a leading provider of MEP design, BIM, shop drawings, technical office, and engineering outsourcing services across the Middle East, Europe, and Africa, recognized for technical excellence, reliability, and long-term partnerships.



Mission

Our mission is to serve as a trusted extension of our clients' engineering teams by providing comprehensive MEP engineering services throughout the entire project lifecycle—from concept design and tender documentation to BIM coordination, shop drawings, construction support, and project handover.

Through engineering expertise, advanced BIM technologies, and efficient delivery processes, we help contractors, consultants, and developers reduce project risks, improve coordination, optimize resources, and deliver high-quality MEP systems on time and within budget.

At PLUTO EMC Egypt, we are committed to building lasting partnerships and becoming the engineering backbone that supports our clients' growth, operational efficiency, and long-term success.



Engineering Excellence

We are committed to delivering engineering solutions that meet the highest standards of technical accuracy, constructability & performance.

Through continuous learning, innovation & attention to detail, we strive to exceed client expectations & contribute to the successful delivery of every project.

Integrity & Professionalism

Integrity is the foundation of our business. We operate with honesty, transparency & accountability in all our interactions.

We honor our commitments, maintain professional ethics & build lasting relationships based on trust & mutual respect.

Client-Centric Approach

Our clients are at the center of everything we do.

We take the time to understand their objectives, challenges, and project requirements to deliver tailored solutions that create measurable value.

Their success is our success.

Quality Without Compromise

We believe that quality is not an outcome but a process.

Every deliverable undergoes rigorous quality control procedures to ensure compliance with project requirements, industry standards & client expectations.

Innovation & Digital Transformation

We embrace emerging technologies, digital engineering methodologies, & BIM driven workflows to improve efficiency, enhance collaboration & deliver smarter engineering solutions.

Innovation is a key driver of our long term growth & competitiveness.

At PLUTO EMC Egypt, our core values define who we are, how we work, and how we create value for our clients. These principles guide every project, every decision & every client relationship.

Collaboration & Teamwork

Successful projects are built through effective collaboration.

We foster a culture of teamwork, knowledge sharing, & open communication, both within our organization & with our clients and project stakeholders.

Reliability & Accountability

We take ownership of our responsibilities & remain accountable for our commitments.

Our clients rely on us for consistent performance, timely delivery & dependable engineering support throughout every stage of the project lifecycle.

Continuous Improvement

We are dedicated to continuous development of our people, processes, and technologies.

By learning from experience and embracing best practices, we continuously enhance our capabilities and the value we provide to our clients.

Sustainability & Responsibility

We recognize our responsibility to contribute to sustainable construction practices and efficient building systems.

Our engineering solutions aim to support energy efficiency, resource optimization, and long-term asset performance.

Long-Term Partnership

We believe that the strongest business relationships are built on trust, performance, and shared success.

Our goal is not simply to complete projects, but to become a trusted engineering partner supporting our clients' growth and future ambitions.

This format looks much more professional in a corporate profile than a simple list of values & is similar to what international engineering & BIM consulting firms use in their company profiles.

Our Services

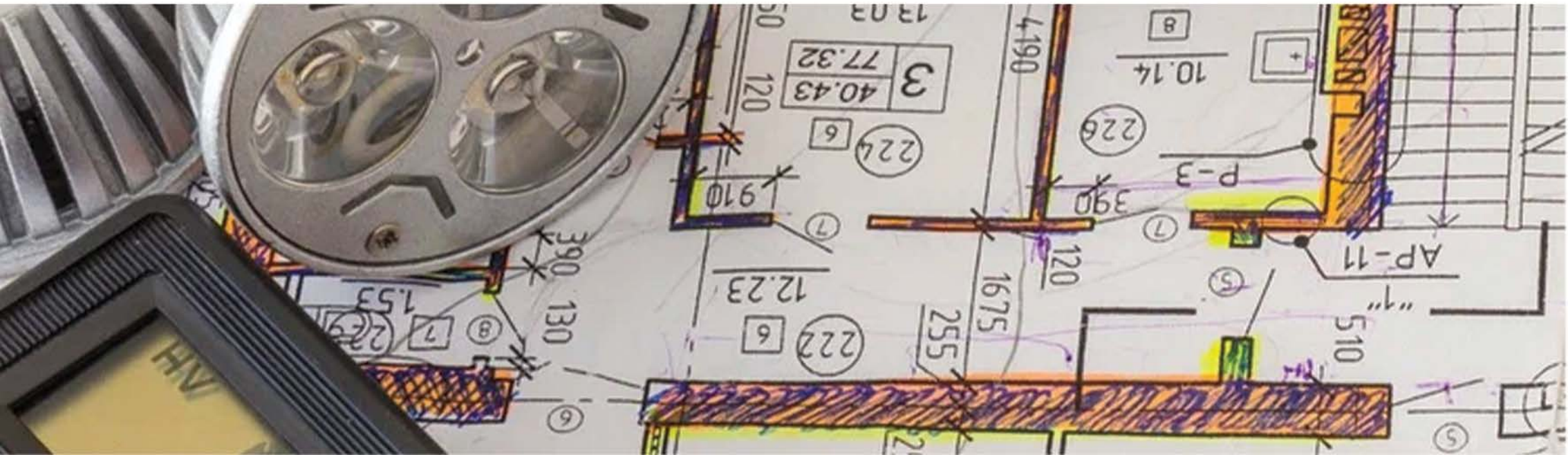
MEP Engineering Design, Solutions

Electrical Engineering

We provide quality electrical design services for all stages of design and construction projects to meet accurate electrical capacity and achieve low maintenance costs & fast turnover times.

- Our Electrical Design Services

- Lighting Design
- Emergency Power System Design
- Power Riser Design
- Load Calculations
- Emergency Lighting Design
- Sizing Service Demand
- Cable Scheduling
- Fault Level Calculations
- Electrical Equipment Specifications
- Voltage Drop Calculations



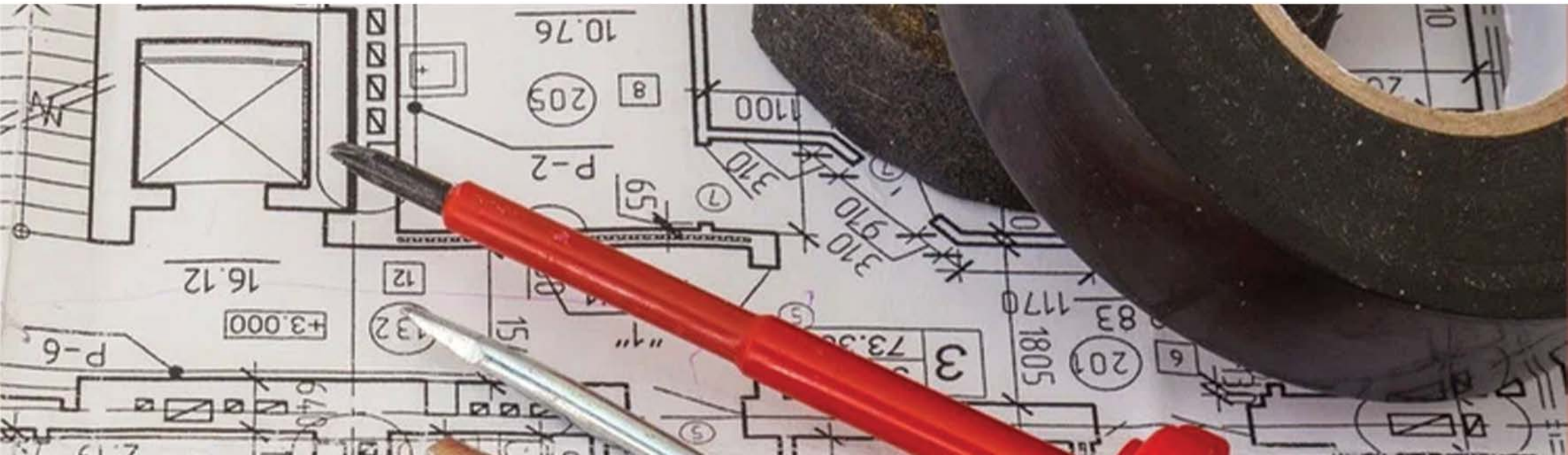
ELV Systems

Our ELV (Extra Low Voltage) design services cover the planning, design, and integration of intelligent building systems that enhance safety, communication, security, and operational efficiency. We develop coordinated and scalable solutions for structured cabling, CCTV, access control, public address systems, intrusion detection, data networks, and other smart building technologies in accordance with international standards and client requirements.

- **Panel Schedules**

- **Electrical BOQs**

- **Single Line Diagrams**



Heating Systems Design

PLUTO EMC Egypt provides comprehensive Heating Systems Design services for residential, commercial, healthcare, hospitality, and industrial facilities. Our designs focus on delivering efficient, reliable, and sustainable heating solutions that ensure occupant comfort while optimizing energy consumption and operational performance in cold-climate regions.

– Our Electrical Design Services

- **Central Heating Systems**
- **Radiator Heating Systems**
- **Heat Pump Systems**
- **Heat Loss Calculations**
- **Energy-Efficient Heating Solutions**
- **Airside Calculations (Fan Static Pressure – ESP)**
- **Acoustic Analysis (Noise Control – NC/NR Levels)**
- **Equipment Room Layout & Accessibility**
- **BMS / DDC Control System Design**
- **Energy Modeling & Simulation**
- **Sensors & Control Devices List Fire Alarm & BMS Integration**
- **Green Building Compliance (LEED / BREEAM)**
- **Heat Recovery Systems**
- **Pump & Fan Energy Optimization (VFD Systems)**
- **Installation Details (Supports, Hangers, Penetrations)**
- **Hydronic Heating Systems**
- **Underfloor Heating Systems**
- **Boiler Plant Design**
- **District Heating Integration**
- **Car Park Ventilation Systems (CO Control)**
- **Vibration Isolation Design**
- **Energy Modeling & Simulation**
- **Sequence of Operation (SOO)**
- **Energy Modeling & Simulation**
- **Chiller Efficiency Optimization (COP / EER)**

Mechanical Engineering

- HVAC Design Ventilation Systems
- Chilled Water Systems
- Equipment Selection
- Hydraulic Calculations (Pipe Sizing & Pressure Losses)
- Heat Load Calculations
- Smoke Management Systems
- DX Systems
- Duct Sizing
- Energy Optimization

Mechanical Quantity Take-Off (BOQ / QTO)

Preparation of detailed quantity take-off for all mechanical systems to support cost estimation, procurement, and project budgeting. This includes accurate measurement and listing of all HVAC components.

Includes:

- Ductwork quantities (m² or kg depending on specification)
- Chilled water piping (linear meters by diameter)
- Insulation quantities for ducts and pipes (m² / m³)
- HVAC equipment count (AHUs, FCUs, chillers, pumps, fans)
- Air terminals (diffusers, grilles, registers – quantity & type)
- Valves and fittings (control valves, isolation valves, strainers)
- Dampers (fire dampers, volume control dampers, smoke dampers)
- Supports and hangers (duct & pipe support systems)

Mechanical Specifications (Technical Description)

Preparation of detailed technical specifications defining materials, performance requirements, installation standards, and compliance criteria for all mechanical systems.

Includes:

- HVAC equipment performance specifications (capacity, efficiency, pressure ratings)
- Material specifications for ducts (GI, stainless steel, aluminum)
- Pipe material specifications (steel, copper, PPR, HDPE depending on system)
- Insulation type and thickness (thermal & acoustic insulation)
- Fire protection requirements for ductwork and penetrations
- Control system specifications (BMS protocols, communication standards like BACnet / Modbus)
- Equipment standards compliance (ASHRAE, SMACNA, EN standards)
- Testing & commissioning requirements (TAB procedures, performance tests)
- Installation standards and workmanship requirements

Purpose:

Ensures all mechanical systems are designed & installed according to international standards and project requirements.

Cost Estimation Support (Based on Quantities)

Development of preliminary and detailed cost estimates based on BOQ and market pricing.

Includes:

- **Material cost estimation**
- **Equipment procurement cost estimation**
- **Installation labor cost estimation**
- **Maintenance and operational cost considerations (if required)**

Procurement & Vendor Submittal Review

Includes:

- **Technical data sheet review**
- **Equipment compliance verification**
- **Alternative material/equipment approval**
- **Coordination with procurement team and consultants**

Code Compliance & Standards Application

Ensuring all mechanical designs & specifications comply with applicable international & local standards.

Includes:

- **ASHRAE Standards (HVAC design & ventilation)**
- **SMACNA (duct construction standards)**
- **NFPA (fire & smoke control systems)**
- **EN Standards (European mechanical design compliance)**
- **Local building codes (country-specific requirements)**

Plumbing & Public Health

Water Supply Systems

Design of domestic cold and hot water supply systems for residential, commercial, industrial, and mixed-use developments in accordance with applicable international and local codes.

Scope Includes:

- Water demand and consumption calculations.
- Pipe sizing and hydraulic calculations.
- Pressure loss analysis and pressure zoning.
- Domestic hot water system design and recirculation networks.
- Water meter and backflow prevention arrangements.
- Equipment selection including water heaters, pumps, and pressure boosting systems.
- Preparation of layouts, riser diagrams, and detailed construction drawings

Storm Water Systems

Design of stormwater collection, conveyance, and disposal systems to prevent flooding and ensure effective site drainage.

Irrigation Systems

Design of efficient landscape irrigation systems that optimize water consumption while maintaining healthy vegetation.

Drainage Systems

Design of sanitary drainage systems to ensure safe and efficient collection, conveyance, and disposal of wastewater.

Scope Includes:

- **Soil, waste, and vent (SWV) system design.**
- **Drainage fixture unit calculations.**
- **Gravity flow and pipe sizing calculations.**
- **Ventilation and trap protection design.**
- **Manhole and inspection chamber layouts.**
- **Connection to municipal sewer networks or on-site treatment systems.**
- **Coordination with architectural and structural disciplines.**

Pumping Systems

Design and selection of pumping systems for domestic water, drainage, sewage, stormwater, and specialized applications.

Water Storage Systems

Design of water storage facilities to ensure reliable water availability, pressure stability, and emergency reserves.

Hydraulic Calculations

Comprehensive hydraulic analysis for all plumbing systems, including flow rates, velocity checks, pressure losses, and system balancing.

Quantity Take-Off (QTO) & BOQ Preparation

Technical Specifications

Fire Protection Systems Design scope of work

Design of comprehensive fire protection & life safety systems in accordance with internationally recognized standards and local authority requirements, ensuring occupant safety, property protection, and regulatory compliance.

Applicable Codes & Standards:

- **National Fire Protection Association (NFPA)**
- **International Code Council – International Fire Code (IFC)**
- **International Organization for Standardization Standards**
- **British Standards Institution (BS EN Standards)**
- **FM Global Data Sheets**
- **National Fire Protection Association – Sprinkler Systems**
- **National Fire Protection Association – Standpipe and Hose Systems**
- **National Fire Protection Association – Fire Pumps**
- **National Fire Protection Association – Water Storage Tanks**
- **National Fire Protection Association – Private Fire Service Mains**
- **National Fire Protection Association – Fire Alarm Systems**
- **BS EN 12845 – Automatic Sprinkler Systems**
- **BS 9999 – Fire Safety in Buildings**
- **EN 54 – Fire Detection & Fire Alarm Systems**

Fire Fighting System Design

Design of complete firefighting systems to protect life and property through automatic and manual fire suppression systems.

Design Standards:

- NFPA 13
- NFPA 16
- FM Global Requirements
- NFPA 14
- NFPA 2001
- NFPA 15
- BS EN 12845

Fire Alarm System Design

Design of intelligent addressable fire detection and alarm systems to provide early fire detection, occupant notification, and emergency system integration.

Integration With:

- HVAC Systems.
- Access Control Systems.
- BMS Systems.
- Smoke Control Systems.
- Emergency Lighting Systems.
- Fire Suppression Systems.
- Elevators.

Design Standards:

- HVAC Systems.
- BS 5839
- NFPA 72
- IFC Requirements
- EN 54 Series

Hydraulic Calculations

Preparation of detailed hydraulic calculations to verify system performance under design fire conditions and ensure compliance with applicable standards

Design Standards:

- NFPA 13
- NFPA 24
- NFPA 14
- BS EN 12845

Fire Pump Room Design

Design of code-compliant fire pump rooms ensuring reliable and uninterrupted fire protection water supply.

Design Standards:

- NFPA 20
- NFPA 24
- NFPA 22
- FM Global Guidelines

Fire Protection Compliance Drawings

Preparation of authority submission drawings and code compliance documentation required for regulatory approvals.

Compliance References:

- International Fire Code (IFC)
- EN Standards
- Insurance Authority Requirements
- NFPA Codes
- BS Standards
- Local Civil Defense Requirements

Fire Water Storage Systems

Design of dedicated fire water storage facilities to satisfy firefighting demand and code requirements.

Design Standards:

- **NFPA 22**
- **NFPA 24**
- **BS EN Standards**

Quantity Take-Off (QTO), BOQ & Technical Specifications

Preparation of tender-ready documentation for procurement and construction.

Standards Referenced:

- **CSI Master Format**
- **NRM (New Rules of Measurement)**
- **POMI (Principles of Measurement International)**



BIM Services & Digital Engineering

PLUTO EMC Egypt provides complete BIM services aligned with international standards.

Services include: BIM & Digital Engineering Services for MEP Projects

We provide advanced BIM and Digital Engineering solutions for Mechanical, Electrical, Plumbing (MEP), Fire Protection, ELV, and multidisciplinary building services projects throughout Europe,

Applicable BIM Standards & Frameworks

Our BIM services are developed in accordance with internationally recognized standards, including:

- **International Organization for Standardization – ISO 19650 Series (Information Management Using BIM)**
- **British Standards Institution – BS EN ISO 19650**
- **Building SMART International – Open BIM & IFC Standards**
- **ISO 16739 (Industry Foundation Classes – IFC)**
- **ISO 12006 (Construction Information Framework)**
- **COBie (Construction Operations Building Information Exchange)**
- **ISO 55000 (Asset Management)**
- **VDI 2552 (German BIM Standards)**
- **PAS 1192 Legacy Framework**
- **CEN/TC 442 BIM Standards (European BIM Standards)**
- **Employer Information Requirements (EIR)**
- **BIM Execution Plan (BEP) Requirements**
- **Common Data Environment (CDE) Protocols**

BIM Modeling (LOD 500–100)

Development of intelligent BIM models throughout the entire project lifecycle, from concept design to facility management and asset operation.

Scope Includes:

- **LOD 100 Conceptual Models**
- **LOD 300 Detailed Design Models**
- **LOD 400 Fabrication & Construction Models**
- **Parametric Family Creation**
- **LOD 500 As-Built & Facility Management Models**
- **LOD 200 Schematic Design Models**
- **LOD 350 Coordination Models**
- **Model Data Enrichment**
- **Model Validation & Quality Assurance**

BIM Coordination

Multidisciplinary coordination of all building services to eliminate conflicts and improve constructability before construction begins.

Scope Includes:

- **MEP Coordination Workshops**
- **Structural Coordination**
- **Coordination Reports**
- **Design Validation**
- **Architectural Coordination**
- **Interdisciplinary Clash Resolution**
- **Constructability Reviews**
- **Coordination Meetings Support**

Clash Detection & Resolution

Identification and resolution of clashes between MEP, structural, and architectural systems before construction.

Scope Includes:

- **Hard Clash Detection**
- **Clearance Analysis**
- **Clash Prioritization**
- **Issue Tracking & Reporting**
- **Soft Clash Detection**
- **Access & Maintenance Reviews**
- **Clash Resolution Strategies**
- **Coordination Sign-Off Procedures**

Outputs:

- **Clash Reports**
- **Resolution Logs**
- **Coordination Dashboards**

Navisworks Coordination

Advanced model federation, clash management, and project coordination using integrated BIM review platforms.

Scope Includes:

- **Federated Model Creation**
- **Clash Testing**
- **Coordination Reviews**
- **Progress Tracking**
- **Model Aggregation**
- **4D Construction Simulation**
- **Model-Based Planning**
- **Construction Sequencing Analysis**

BIM Execution Plans (BEP)

Preparation and implementation of project-specific BIM Execution Plans aligned with client and regulatory requirements.

Compliance:

- **ISO 19650**
- **Employer Information Requirements (EIR)**
- **Project Information Requirements (PIR)**

BIM Standards Development

Development of customized BIM standards, protocols, and modeling guidelines for organizations and project teams.

Classification Systems

BIM Auditing

Independent assessment and verification of BIM models, documentation, and project compliance.

Digital Twin Support

Development of BIM-enabled Digital Twin environments to support operations, maintenance, and smart building initiatives.

Standards:

- **ISO 55000 Asset Management**
- **ISO 19650**
- **Open BIM Standards**

Scan-to-BIM

Conversion of laser scanning and reality capture data into intelligent BIM models.

Applications:

- **Existing Buildings**
- **Hospitals**
- **Heritage Projects**
- **Industrial Facilities**
- **Airports**

Asset Information Models (AIM)

Creation of structured asset information models to support facility management & operational requirements.

As-Built BIM Models

Development of verified BIM models reflecting actual installed conditions at project completion.

- **IFC Deliverables**
- **Asset Information Models**
- **Digital Handover Packages**

4D Construction Simulation

BIM Quantity Take-Off (QTO)

17. Common Data Environment (CDE) Management

5D BIM Cost Management

MEP Shop Drawings & Fabrication Models

BIM for Facility Management (FM)

Shop Drawing Services

We prepare construction-ready drawings for all MEP disciplines.

Services include:

- HVAC Shop Drawings
- Fire Fighting Shop Drawings
- Coordination Drawings
- Builder Work Drawings
- As-Built Drawings
- Plumbing Shop Drawings
- Electrical Shop Drawings
- Composite Drawings
- Installation Drawings
- Fabrication Drawings

Technical Office Services

- Material Submittals
- Method Statements
- Quantity Take-Offs
- BOQ Preparation
- Procurement Support
- Engineering Documentation
- Technical Submittals
- RFIs
- Quantity Surveying
- Cost Estimation
- Progress Reports
- Project Closeout Documentation

CAD Drafting Services

PLUTO EMC Egypt provides professional CAD Drafting Services as part of its comprehensive Engineering Back-Office & Technical Support solutions for contractors, consultants, developers, and design firms worldwide.

Our CAD drafting capabilities include MEP drafting services, covering design drawings, tender drawings, construction documents, permit drawings, shop drawings, coordination drawings, as-built documentation, redline updates, and drawing conversions.

Our CAD Drafting Services Include:

- **MEP Drafting Services**
 - HVAC Layout & Installation Drawings**
 - Fire Protection Drawings**
 - Coordination Drawings**
 - Permit & Authority Submission Drawings**
 - Redline Markup Incorporation**
 - CAD Standards Implementation**
 - Drawing Digitization & Documentation Support**
- **Electrical Drafting & Single-Line Diagrams**
- **Plumbing & Drainage Drawings**
- **Shop Drawing Production**
- **Construction Documentation**
- **As-Built Drawings**
- **PDF to CAD Conversion**
- **Drawing Revision Management**

Engineering Outsourcing Solutions

We act as an extension of our clients' engineering departments.

Dedicated Resources Available:

- **BIM Managers**
- **Revit Modelers**
- **Electrical Engineers**
- **Plumbing Engineers**
- **Technical Office Engineers**
- **BIM Coordinators**
- **CAD Draftsmen**
- **Mechanical Engineers**
- **Quantity Surveyors**
- **Design Engineers**

Project Delivery Workflow

At PLUTO EMC Egypt, we follow a structured project delivery process designed to ensure accuracy, transparency, quality, and timely execution throughout every project phase.

- **Project Initiation & Information Review**
- **Design Development & BIM Modeling**
- **Shop Drawing Production**
- **Final Submission & Client Support**
- **Engineering Planning**
- **Coordination & Clash Resolution**
- **Quality Assurance Review**

Quality Assurance & Quality Control (QA/QC)

Quality is embedded in every stage of our engineering process. PLUTO AMC Egypt maintains a comprehensive Quality Assurance and Quality Control framework to ensure all deliverables meet the highest standards of technical excellence.

Software & Technology Platforms

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Software & Technology Platforms

Our engineering team utilizes industry-leading software solutions:

BIM & Modeling tools

- Autodesk Revit
- Autodesk Navisworks (test clashes – 4D Planning – 5D Cost Integration – Digital Twin)
- Autodesk BIM Collaborate Pro
- Autodesk Recap
- AutoCAD MEP
- Autodesk Construction Cloud (ACC)
- AutoCAD
- AutoCAD Plant 3D

Electrical Engineering

- ETAP
- Dialux
- Caneco
- Dialux Evo
- Ecodial

Mechanical Engineering

- HAP (Carrier)
- Pipe Sizer
- TRACE 700
- Elite Software
- Duct Sizer

Project Management

- Primavera P6
- Power BI
- Microsoft Project
- Microsoft Office 365

Collaboration Platforms

- **Autodesk Construction Cloud**
- **SharePoint**
- **Google Workspace**
- **BIM 360**
- **Microsoft Teams**

Advanced Engineering & Digital Delivery Services

- **BIM Management**
- **BIM Auditing**
- **Scan-to-BIM Services**
- **BIM Automation (Dynamo)**
- **Autodesk Construction Cloud (ACC) Management**
- **Common Data Environment (CDE) Administration**
- **Model Health Checks**
- **BIM Training Services**
- **BIM Coordination**
- **Digital Twin Support**
- **Point Cloud Processing**
- **Data Center BIM Services**
- **BIM Standards Development**

Team Structure & Engineering Capabilities

PLUTO EMC Egypt is supported by a multidisciplinary engineering team capable of delivering projects across various sectors and geographic markets.



Executive Management

- **Chairman & Managing Director**
- **Business Development Director**

Engineering Department

- **Senior Electrical Engineers**
- **Plumbing Engineers**
- **Design Engineers**

BIM Department

- **BIM Managers**
- **BIM Engineers**
- **BIM Technicians**

Technical Office Department

- **Technical Office Engineers**
- **Cost Estimators**

Digital Engineering Team

- **BIM Automation Specialists**
- **ACC Administrators**

- **Engineering Director**

- **Senior Mechanical Engineers**
- **Fire Protection Engineers**

- **BIM Coordinators**
- **Revit Modelers**

- **Quantity Surveyors**
- **CAD Draftsmen**

- **Dynamo Developers**
- **Information Management Specialists**

Core Capabilities

- MEP Design
- BIM Coordination
- Quantity Take-Offs
- Cost Estimation
- Engineering Outsourcing

Industries Served

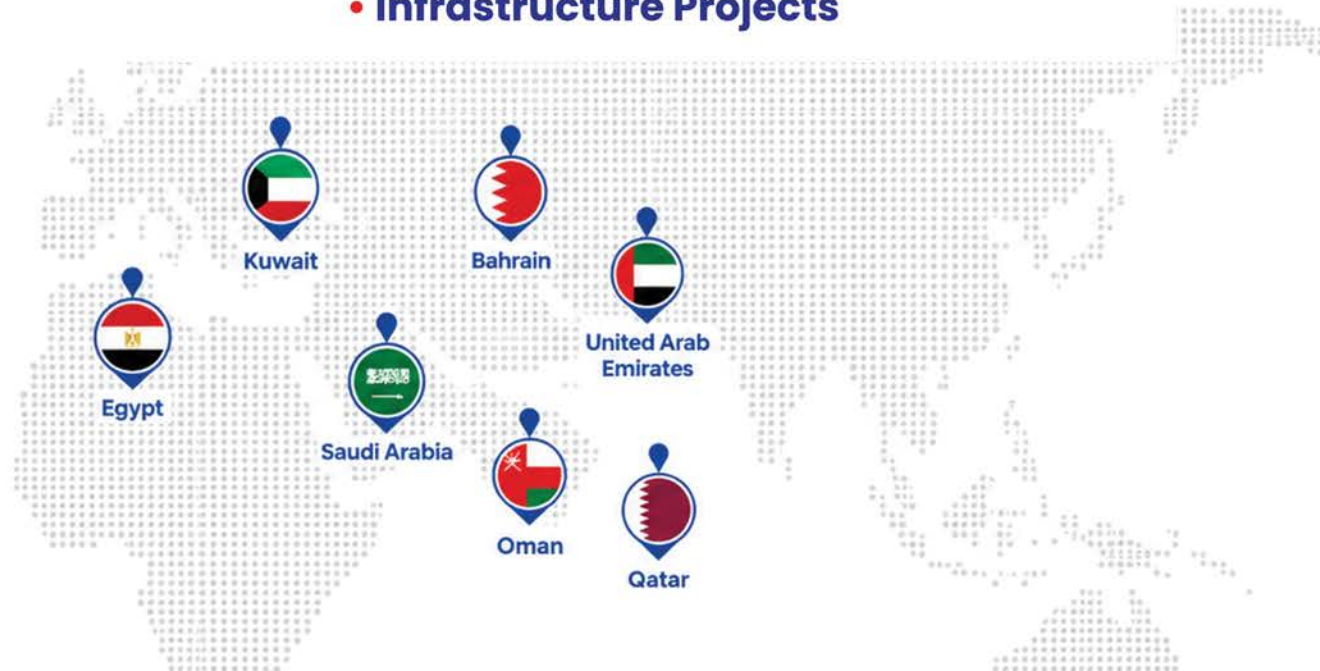
- Residential Developments
- Hotels & Hospitality
- Educational Buildings
- Warehouses
- Mixed-Use Developments

- BIM Modeling
- Shop Drawings
- Technical Submittals
- Project Documentation

- Commercial Buildings
- Healthcare Facilities
- Industrial Projects
- Data Centers
- Infrastructure Projects

Geographic Experience

Successfully supporting projects across:



With expansion plans into:



- **Engagement Models**
- **Dedicated Engineering Resources**
- **BIM & Technical Office Outsourcing**
- **Build-Operate-Support Model**

- **Project-Based Services**
- **Monthly Engineering Support**
- **Long-Term Strategic Partnerships**

Why PLUTO EMC Egypt?

- Experienced Engineering Team
- Comprehensive Design & Execution Experience
- Certified BIM & Revit Engineers
- International Code Compliance (NFPA, ASHRAE, BS, IEC)
- In-house Coordination for Zero-Clash Delivery
- Fast Turnaround and Client-Focused Approach
- Strong Track Record in Industrial and Commercial Projects
- BIM-Centered Delivery Approach
- Cost-Effective Outsourcing Solutions
- Fast Project Turnaround
- International Standards Compliance
- Flexible Resource Allocation
- Dedicated Client Support
- Strong Gulf Market Experience
- Quality Assurance Procedures
- Scalable Engineering Capacity

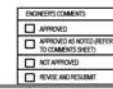




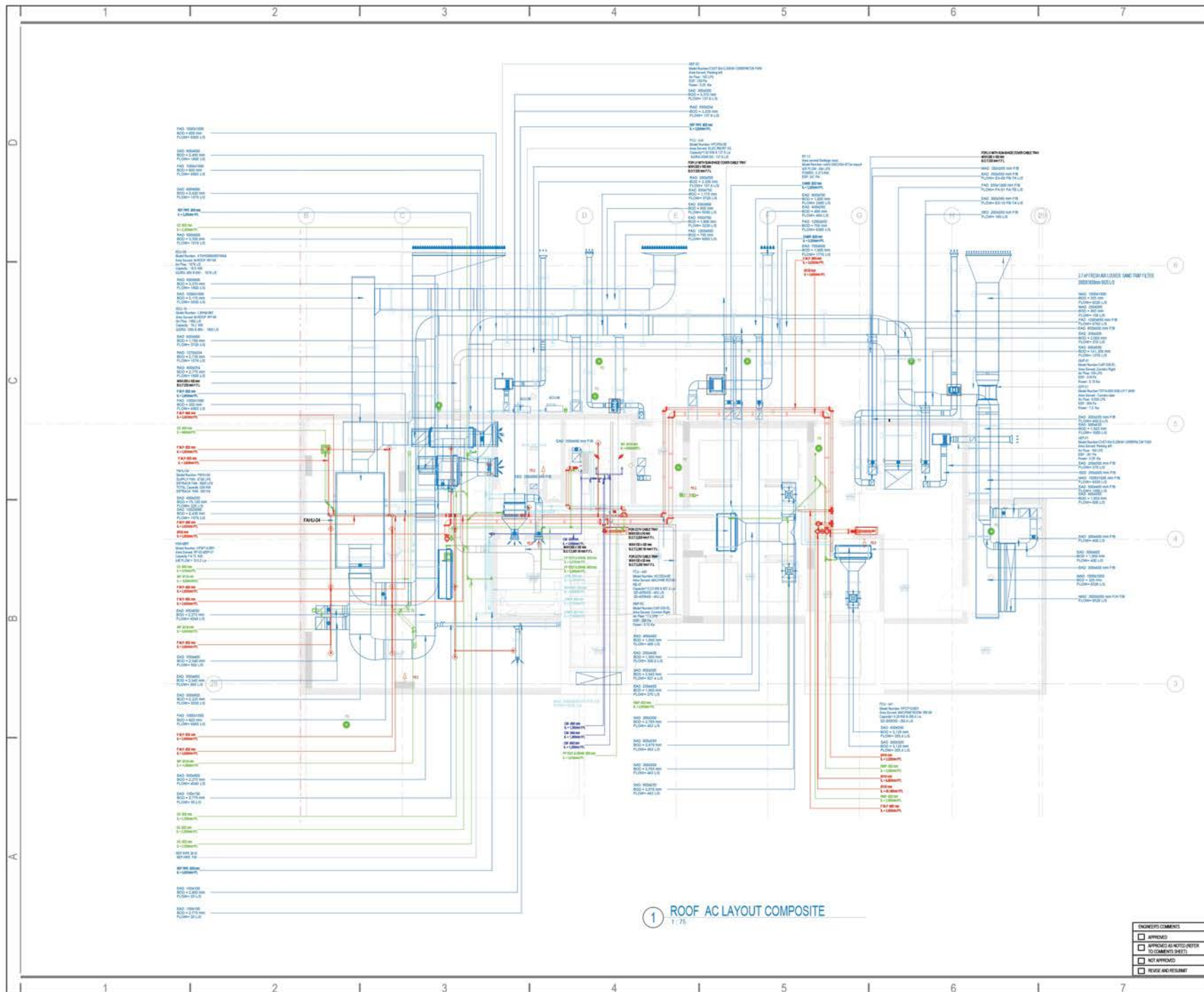
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ENGINEER'S COMMENTS:
☐ APPROVED
☐ APPROVED AS NOTED (SEE TO-COMMENTS SHEET)
☐ NOT APPROVED
☐ REVISE AND RESUBMIT

[illegible]



1 LEVEL 13 A/C CW LAYOUT ETS Room
1:50



NOTES:
1. ALL DIMENSIONS ARE IN MM. OTHERWISE IS SPECIFIED.

KEY PLAN
Scale: 1:1000

LEGEND:
 ■ HVAC
 ■ CHILLED WATER
 ■ DRAINAGE
 ■ WATER SUPPLY
 ■ FIRE FIGHTING
 ■ ELECTRICAL

REV.	REVISION SUBJECT	DATE	APP'D BY

BUILDING DESCRIPTION:
DUBAI MARITIME CITY RES. DEV.
2 - OMNIYAT

CLIENT:
OMNIYAT

CONSULTANT:
NAGA ARCHITECTS
TEL: +971 4 382 4455, PO BOX 10213, DUBAI
FAX: +971 4 382 2215, www.naga.ae

MAIN CONTRACTOR:
GENERAL CONSTRUCTION CO. L.L.C
gnc@generalconstruction.com, www.gnc.ae, 1971 & 2008/08
No. 100, Al Jumeirah, Jumeirah 3 Road, Jumeirah 3, P.O. Box 10000

M.E.P. SUB CONTRACTOR:
PLUTO ELECTRO-MECHANICAL CONTRACTING LLC SP
P.O. Box 10000, Jumeirah 3 Road, Jumeirah 3, P.O. Box 10000

DRAWING TITLE:
ROOF PLAN COMPOSITE LAYOUT

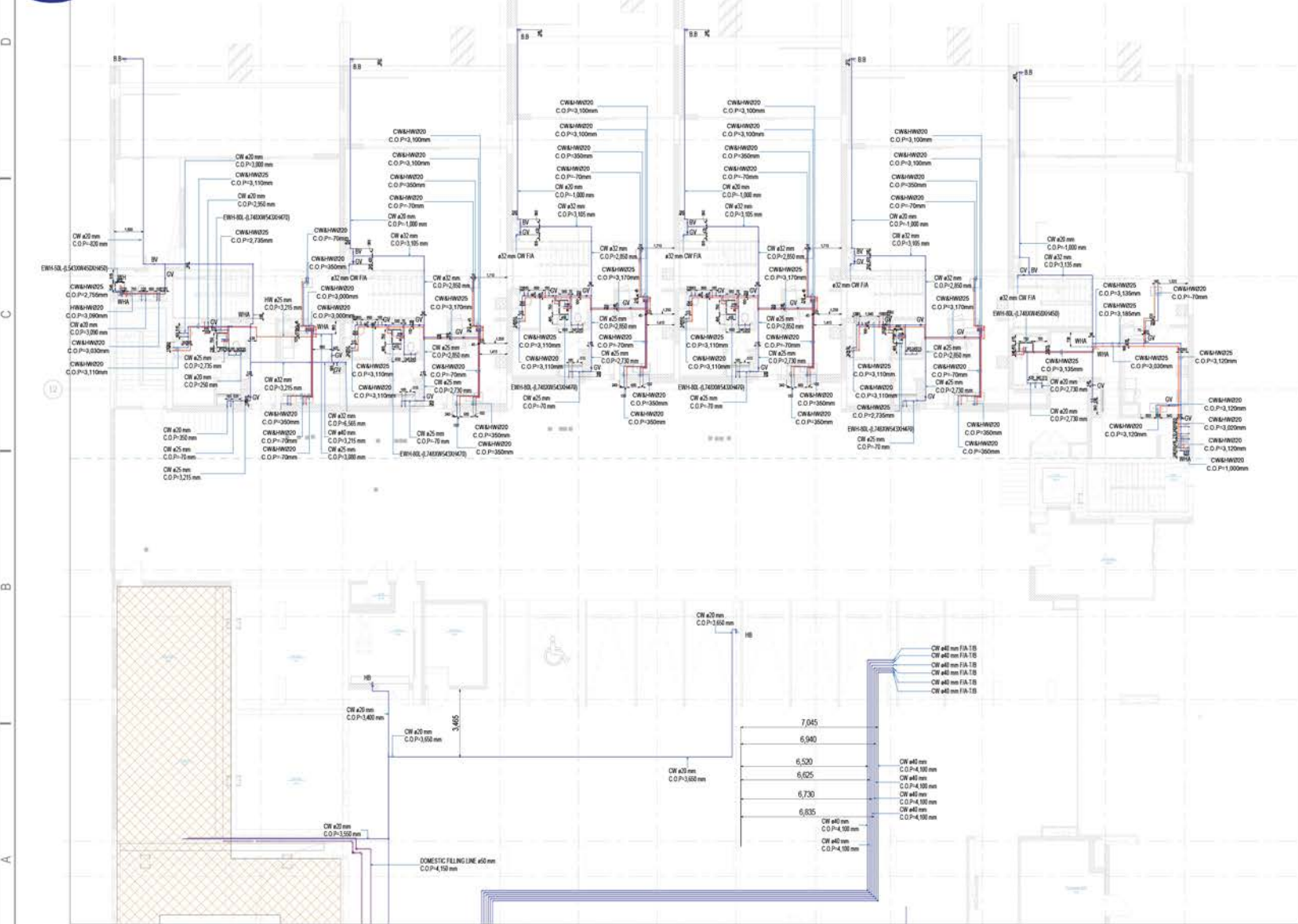
DRAWING NO:
QA2-MEP-SD-PEM-CO-0103

REV:00

ENGINEER COMMENTS:
☐ APPROVED
☐ APPROVED AS NOTED (REFER TO COMMENTS SHEET)
☐ NOT APPROVED
☐ REUSE AND RESUBMIT

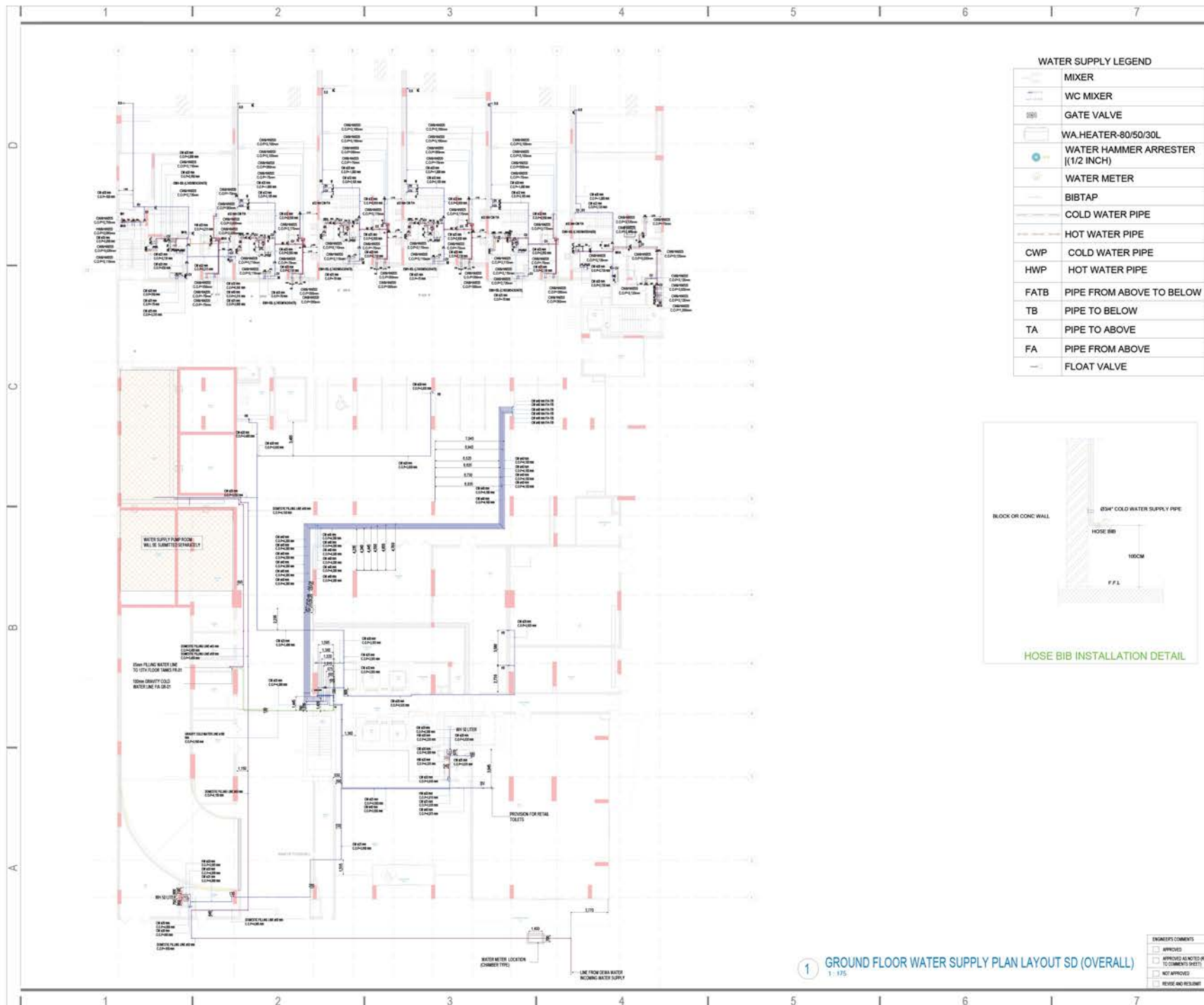
SCALE: As indicated
DATE: 09/11/2025
DESIGN: MEAS
CHECKED: ENG. OADIA
REVIEWED: ENG. ABU QHAYAS
APPROVED BY: ENG. YOUSSEF

PRINTING DATE/TIME: 9/11/2025 3:50:35 PM



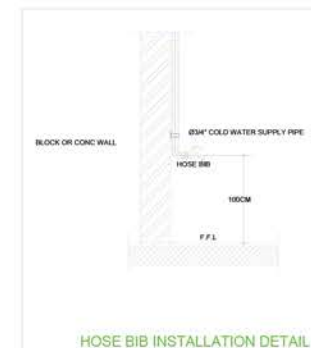
1000

PRINTING DATE/TIME 9/30/2025 8:59:19 PM

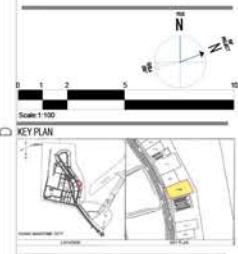


WATER SUPPLY LEGEND

	MIXER
	WC MIXER
	GATE VALVE
	WA HEATER-80/50/30L
	WATER HAMMER ARRESTER (1/2 INCH)
	WATER METER
	BIBTAP
	COLD WATER PIPE
	HOT WATER PIPE
	CWP COLD WATER PIPE
	HWP HOT WATER PIPE
	FATB PIPE FROM ABOVE TO BELOW
	TB PIPE TO BELOW
	TA PIPE TO ABOVE
	FA PIPE FROM ABOVE
	FLOAT VALVE



NOTES:
1. ALL DIMENSIONS ARE IN MM. OTHERWISE IS SPECIFIED.



REV.	SUBMITTED FOR APPROVAL	REVISION SUBJECT	DATE	APP BY
0			30-09-2025	

BUILDING DESCRIPTION:
DUBAI MARITIME CITY RES. DEV.
2 - OMNIYAT

CLIENT
OMNIYAT

CONSULTANT
NAGA ARCHITECTS
TEL: +971 4 322 4832 FAX: +971 4 322 2112
PO BOX 78233, DUBAI
www.naga.ae

MAIN CONTRACTOR
GENERAL CONSTRUCTION CO. L.L.C
TEL: +971 4 322 4832 FAX: +971 4 322 2112
PO BOX 78233, DUBAI
www.gc.ae

M.E.P. SUB CONTRACTOR
PLUTO ELECTRO-MECHANICAL CONTRACTING LLC SP
TEL: +971 4 322 4832 FAX: +971 4 322 2112
PO BOX 78233, DUBAI
www.pluto.ae

DRAWING TITLE
GROUND FLOOR PLAN WATER SUPPLY LAYOUT (OVERALL)

DRAWING NO. OAG-MEP-SD-PEM-WS-0001	REV.00
SCALE: 1:175	CHECKED BY: ENG. OMAR
DATE: 30-09-2025	REVIEWED BY: ENG. AHMED
DRAWN: MOHAM	APPROVED BY: ENG. YOUSSEF
PRINTING DATE/TIME: 9/30/2025 8:59:16 PM	

ENGINEER'S COMMENTS
☐ APPROVED
☐ APPROVED AS NOTED - REFER TO COMMENTS SHEET
☐ NOT APPROVED
☐ REVISION REQUIRED

[illegible]

NOTES:

1. ALL DIMENSIONS ARE IN MM. OTHERWISE IS SPECIFIED
2. PIPE SHALL BE GALVANIZED STEEL. ERW PIPE AS PER ASTM A 53 GRADE B, SCH 40
3. FITTINGS & FLANGE UP TO 50 MM DIA. SHALL BE DUCTILE IRON. FOR HIGHER FITTING SIZE & FLANGE SIZE, AND SPECIAL SHALL BE DUCTILE IRON GRADUATED FITTING
4. ALL JOINT SIGNAL FROM SIGNALING SYSTEM, FIGHTING SYSTEM TO BE INTERFACED W/ FIRE ALARM SYSTEM
5. FIRE PROTECTION SYSTEM SHALL BE AS PER NFPA CODE & NFPA
6. ALL UNDER GROUND PIPES & FITTINGS SHALL BE HOPE PIPE
7. FOR THE NON AIR-CONDITIONED AREAS, THE OPERATING TEMPERATURE OF THE SPRINKLER SHALL BE 57°C
8. FOR THE NON AIR-CONDITIONED AREAS, THE OPERATING TEMPERATURE OF THE SPRINKLER SHALL BE 79°C



BUILDING DESCRIPTION:
DUBAI MARITIME CITY RES. DEV.
2 - OMNIYAT

PLANT

OMNIYAT

CONSULTANT

NAGA
ARCHITECTS
TEL: +971 4 332 4462 | P.O. BOX 78311, DUBAI
FAX: +971 4 332 3119 | www.naga.ae

MAIN CONTRACTOR	WILLIS TOWERS WATSON
-----------------	----------------------

GENERAL CONSTRUCTION CO., L.L.C.
 9010 E. 1st Avenue, Suite 100, Denver, CO 80231
 Tel: 303.733.1111 Fax: 303.733.1112
 www.gcccon.com

M.E.P. SUB CONTRACTOR

PLUTO ELECTRO-MECHANICAL CONTRACTING, LLC SP
 15.82 - G41.00000
 TEL: 813-270-1171 FAX: 813-270-1172
 15.82 - G41.00000 TEL: 813-270-1171 FAX: 813-270-1172

DRAWING TITLE

A FIRE FIGHTING PUMP ROOM

DRAWING NO. OA2-MEP-SD-PEM-FF-0040	REV.00
---------------------------------------	--------

SCALE: As indicated	CHECKED BY:	REVIEWED BY:	APPROVED BY:
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DATE: 05/10/2023 04:48:15 PM	ENG OBADA	ENG ABU OMAR	ENG YOUSSEF
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PRINTING DATE/TIME: 9/17/2025 9:46:15 PM

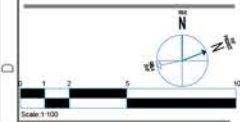
2 13TH PUMP ROOM SEC-01
1:25

4 13TH PUMP ROOM SEC-03

1 FIRE FIGHTING PUMP ROOM 3D

3 13TH PUMP ROOM SEC-02
1:25

- NOTES:**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. PIPE SHALL BE GALVANIZED STEEL PIPE OR POLYETHYLENE GLASS REINFORCED PLASTIC PIPE.
 3. FITTINGS AS SPEC'ED TO 1000 MM SHALL BE FLANGED OR FLANGELESS FITTINGS WITH WELDED JOINTS AND ABOVE SHALL BE BUTTLE JOINTS FOR FLANGELESS FITTINGS.
 4. ALL JOINTS SHALL BE PROTECTED AGAINST LEAKING SYSTEM BY INTERFACING WITH FIRE ALARM SYSTEM.
 5. FIRE PROTECTION SYSTEM SHALL BE AS PER NFPA CODE & WITH A.
 6. ALL UNDER GROUND PIPES & FITTINGS SHALL BE HOPE FREE.
 7. FOR THE UNCONFINDED AREAS, THE OPERATING TEMPERATURE OF THE SPRINKLER SHALL BE 60°C.
 8. FOR THE UNCONFINDED AREAS, THE OPERATING TEMPERATURE OF THE SPRINKLER SHALL BE 70°C.



0	SUBMITTED FOR APPROVAL	08-09-2025	
REV.	REVISION SUBJECT	DATE	APP BY

BUILDING DESCRIPTION:
DUBAI MARITIME CITY RES. DEV.
2 - OMNIYAT

CLIENT

OMNIYAT

CONSULTANT

NAGA ARCHITECTS

TEL: +81 3 4322 4402 FAX: +81 3 4322 7112
E-MAIL: info@naga-architects.co.jp

2005-2006 70132 00000
WWW.NAGA-ARCHITECTS.CO.JP

MAIN CONTRACTOR

 **الشركة العامة للإنشاءات ش.م.ل.ح**
GENERAL CONSTRUCTION CO. L.L.C
P.O. Box 200000, Jeddah 21511, Saudi Arabia
Tel: +966 11 2000000 Fax: +966 11 2000000

300-Floor Al-Wakeel Building, Muharraqh & Dammam, Eastern Saudi Coasts, P.O. Box 200000

M.E.P SUB CONTRACTOR

 **PLUTO ELECTRO-MECHANICAL CONTRACTING LTD SP**

PO BOX 14412, SURREY
TEL: 0147377001 FAX: 0147377001
TEL: 0147377001 FAX: 0147377001

DRAWING TITLE
FIRE FIGHTING PUMP ROOM-DETAIL

DRAWING NO. QA2-MEP-SD-PEM-FF-0039		REV-00	
SCALE: 1:25	CHECKED BY: ENG OGADA	REVIEWED BY: ENG ABU QIYAS	APPROVED BY: ENG YOUSSEF
DATE: 07/10/2024 14:40:00 PM			
DRAWN: IMRAN			

PRINTING DATE/TIME 9/17/2025 9:45:40 PM

Key Achievements

- Successfully established engineering operations within three years.
- Delivered engineering services for multiple projects across Egypt and the GCC.
- Completed more than six major projects involving BIM, shop drawings, and MEP design support.
- Built multidisciplinary engineering capabilities covering design, BIM, technical office, and project support services.

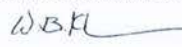
The Employer	The Consultant	The Main Contractor	MEP Contractor
			
Project: PROPOSED B+G+1 STOREY PRIVATE VILL ON PLOT NO. 631-4082 AT DUBAI HILLS ESTATE, DUBAI, U.A.E.			

SHOP DRAWING SUBMITTAL				
Date: 01/06/2026			Reference: GMC-DX157-SD-MEP-EL-030 R.02	
Title/Subject: FIRST FLOOR PLAN HOME AUTOMATION LAYOUT				
Attachment Details:				
Sr.	Title	Shop drawing Reference	Revision	Status
1.	FIRST FLOOR PLAN HOME AUTOMATION LAYOUT	HAS-102	R.02	

☐ Shop drawing list attached

1. Shop drawing list must be included for transmittals containing more than "3" shop drawings
2. Shop drawings prepared by specialists must be sealed and signed by the specialist

Category: ☐ Structural ☐ Architectural ☐ Mechanical ☒ Electrical
☐ Others Specify:

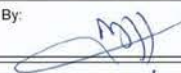
The Contractor Representative Signature
 Date: 01-06-2026

THE ENGINEER COMMENTS:


THE EMPLOYER COMMENTS:

ACTION: (As Marked)

APPROVED ☒ APPROVED AS NOTED ☐ APPROVED AS NOTED - RESUBMIT ☐ NOT REQUIRED ☐ NOT APPROVED ☐

Reviewed By:  1-6-26

For The Engineer:

For The Employer:

The Employer: **LACASA** Consultant: **LACASA** MAIN CONTRACTOR: **EAST COAST** MEP Contractor: **PLUTO E.M.C**

Project Name:
Proposed B+G+4P+26/37 (24+1MECH.+1AMENITY AND 37+MECH.)
STOREY RESIDENTIAL BUILDINGS ON PLOT NO.
6817380, JVC, DUBAI, U.A.E.

SHOP DRAWING SUBMITTAL

Date: 21-Apr-26 Reference: ECCT-LAC-SDS-MEP-ME-0016 Revision: 00

Title/Subject:
1st PODIUM PLAN DRAINAGE LAYOUT - LOW LEVEL

Attachment Details:

Sr.	Title	Shop drawing Reference	Rev.	
1	1st PODIUM PLAN (OVERALL) - DRAINAGE LAYOUT - LOW LEVEL	JVC-SDS-ME-DR-103 (OVERALL)	00	☐ Shopdrawing list attached

1. Shopdrawing list must be included for transmittals containing more than "5" shopdrawings
2. Shopdrawings prepared by specialists must be sealed and signed by the specialist

Category:
☐ Structural ☐ Architectural ☒ Mechanical ☐ Electrical
☐ Others Specify:

From M/s Pluto Representative Signature
Project Manager
Date: 21-Apr-26

The Contractor Representative Signature
Date: 21-Apr-26

THE ENGINEER COMMENTS:
① Contractor to ensure the coordination with all related trades.
② Final location of FD, PD shall be coordinated with latest ID drawings.
③ Drainage provision shall be provided for all FHC.
④ All CDP to be insulated as per the project's specifications.

THE PROJECT MANAGER / EMPLOYER COMMENTS:

ACTION: (As Marked)
APPROVED ☒ APPROVED AS NOTED ☐ REVISE AND RESUBMIT ☐ SAME WITH ADDITIONAL DATA ☐ NOT APPROVED ☐

Reviewed By: *[Signature]*
For The Engineer: *[Signature]*
For Project Manager / the Employer: (When Applicable)

Appendix D3

Page 1 of 1

LAC-SM-Feb. 2014 (Rev.02)

OMNIYAT **NAGA** **GENERAL CONSTRUCTION CO. L.L.C.**

Project: (22-020-DXB) ANWA ARIA TOWER (G+4P+32+R) RESIDENTIAL BUILDING DEV 2 ON PLOT No. 08A @ DUBAI MARITIME CITY, DUBAI, UAE

Submittal No.: **OA2-MEP-SD-EL-0309** REV. **0**

Date: 09-Jan-2026

Client: Bluestar Real Estate Development LLC
Client Rep.: Omniyat Projects Management LLC
Consultant: NAGA Architects
Contractor: General Construction Company
MEP Contractor: Pluto ElectroMechanical Contracting LLC sp

TRANSMITTAL OF DRAWINGS

1. SUBJECT DESCRIPTION:
GROUND FLOOR PLAN TELECOM SYSTEM LAYOUT

Area of Application: **GROUND FLOOR**
Drawing Ref.:

2. SUBMITTAL DETAILS

#	Drawing No.	Rev.	No. of Copy	Description
1	OA2-MEP-SD-PEM-TC-0001	0	1	GROUND FLOOR PLAN TELECOM SYSTEM LAYOUT - OVERALL
2	OA2-MEP-SD-PEM-TC-0001(A)	0	1	GROUND FLOOR PLAN TELECOM SYSTEM LAYOUT - PART 01
3	OA2-MEP-SD-PEM-TC-0001(B)	0	1	GROUND FLOOR PLAN TELECOM SYSTEM LAYOUT - PART 02
4				
5				
6				
7				
8				
9				
10				

These are transmitted for:
☐ Your Information ☒ Approval ☐ Checking ☐ Review and Comment

We certify that the above shop drawings have been coordinated

Submitted by: *[Signature]* Signature

3. ENGINEER'S COMMENT:

#	Drawing No.	Rev.	Code	Comment
1	OA2-MEP-SD-PEM-TC-0001	0	1	
2	OA2-MEP-SD-PEM-TC-0001(A)	0	1	
3	OA2-MEP-SD-PEM-TC-0001(B)	0	1	
4				
5				
6				
7				
8				
9				
10				

Code Legend:
1 APPROVED 2 APPROVED As NOTED 3 RESUBMIT For APPROVAL 4 REJECTED

Signature: *[Signature]* DATE: / /

Approval shall not relieve Contractor of any of his obligations under the Contract or constitute authorization of any change to Contract Documents or variation to the works. Contractor is responsible for dimensions, quantities and coordination with other trades.

The Employer IMAN DEVELOPERS	The Engineer LACASA Architects & Engineering Consultants	The Contractor EAST COAST	The Subcontractor PLUTO E.M.C
PROPOSED B+G+4P+24/37(24+1MECH+1AMENITY& 37+ROOF+UPPER ROOF) STOREY RESIDENTIAL BUILDING ON PLOT NO. 6817380, JVC DUBAI, U.A.E.			
SHOPDRAWING SUBMITTAL			
Date: 30-January-2026		Reference: ECCT-LAC-SDS-MEP-ME-0006-00	
Project Name: One Sky Park			
Title/Subject: 3 RD PODIUM WATER SUPPLY			
Attachment Details:			
Sr.	Shop drawing Reference	Revision	
1	3rd PODIUM PLAN (OVERALL) - WATER SUPPLY LAYOUT Dwg No. WS-105	0	☐ Shop drawing attached
2	3rd PODIUM PLAN (PARTIAL PART - 1) - WATER SUPPLY LAYOUT Dwg No. WS-105A	0	
3	3rd PODIUM PLAN (PARTIAL PART - 2) - WATER SUPPLY LAYOUT Dwg No. WS-105B	0	
1. Shopdrawing list must be included for transmittals containing more than "3" shop drawings 2. Shop drawings prepared by specialists must be sealed and signed by the specialist			
Category: ☐ Structural ☐ Architectural ☒ Mechanical ☐ Electrical ☐ Others			
The Contractor Represents Project Director		Date: 30-January-2026 Coordinator	
THE ENGINEER COMMENTS: All pipes size shall be strictly followed as per the IFC drawings, the mentioned OD on the layout is not accepted. Bib tap qty. & location to be as per the IFC drawings. Fully coordinate with all other services, approval here is subject to MEP coordination drawing approval. Submit pipe support details. Bib tap installation mock-up to be submitted for Engineer's approval.			
THE EMPLOYER COMMENTS:			
ACTION: (As Marked) APPROVED ☒ APPROVED AS NOTED ☐ REVISE & RESUBMIT ☐ NOT REQUIRED ☐ NOT APPROVED ☐			
Reviewed By:		For The Engineer:	

OMNIYAT NAGA DETAILS MAKE PERMIT Project: (22-020-DXB) ANWA'ARIA TOWER (G+4P+32+R) RESIDENTIAL BUILDING DEV 2 ON PLOT No. 08A @ DUBAI MARITIME CITY, DUBAI, UAE	Submittal No.: OA2-MEP-SD-ME-0304 Date: 09-Jan-2026 REV: 0			
Client: Bluestar Real Estate Development LLC Client Rep.: Omniyat Projects Management LLC Consultant: NAGA Architects Contractors: General Construction Company MEP Contractor: Pluto ElectroMechanical Contracting LLC sp				
TRANSMITTAL OF DRAWINGS				
1. SUBJECT DESCRIPTION: GROUND FLOOR PLAN CHILLED WATER LAYOUT				
Area of Application GROUND FLOOR Drawing Ref.:				
2. SUBMITTAL DETAILS				
#	Drawing No.	Rev.	No. of Copy	Description
1	OA2-MEP-SD-PEM-CHW-0001	0	1	GROUND FLOOR PLAN CHILLED WATER LAYOUT - OVERALL
2	OA2-MEP-SD-PEM-CHW-0001(A)	0	1	GROUND FLOOR PLAN CHILLED WATER LAYOUT - PART 01
3	OA2-MEP-SD-PEM-CHW-0001(B)	0	1	GROUND FLOOR PLAN CHILLED WATER LAYOUT - PART 02
4				
5				
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7				
8				
9				
10				
These are transmitted: ☐ Your Information ☒ Approval ☐ Checking ☐ Review and comment				
We certify that the above shop drawings have been coordinated				
Submitted by:				Signature
3. ENGINEER'S COMMENT:				
#	Drawing No.	Rev.	Code	Comment
1	OA2-MEP-SD-PEM-CHW-0001	0	1	
2	OA2-MEP-SD-PEM-CHW-0001(A)	0	1	
3	OA2-MEP-SD-PEM-CHW-0001(B)	0	1	
8				
9				
10				
Code Legend: 1 APPROVED 2 APPROVED As NOTED 3 RESUBMIT For APPROVAL 4 REJECTED				
Signature: <i>MS</i>				DATE: / /
Approval shall not relieve Contractor of any of his obligations under the Contract or constitute authorization of any change to Contract Documents or variation to the works. Contractor is responsible for dimensions, quantities and coordination with other trades.				

OMNIYAT

NAGA



Submittal No.:

OA2-MEP-SD-EL-0259

REV. 00

Project: (22-020-DXB) ANWA ARIA TOWER (G+4P+32+R) RESIDENTIAL BUILDING DEV 2 ON PLOT No. 08A
@ DUBAI MARITIME CITY, DUBAI, UAE

Date: 14-May-2025

Client: Bluestar Real Estate Development LLC
Client Rep.: Omnyat Projects Management LLC
Consultant: NAGA Architects
Contractor: General Construction Company
MEP Contractor: Pluto ElectroMechanical Contracting LLC sp

TRANSMITTAL OF DRAWINGS

1. SUBJECT DESCRIPTION:

PODIUM 02 WALL MOUNTED DETAILS PLAN TOWN HOUSE (3BRD-T-F1)

Area of Application:

PODIUM 02 (3BRD-T-F1)

Drawing Ref.:



2. SUBMITTAL DETAILS

#	DB NO.	Rev.	No. of Copy	Description
1	OA2-MEP-SD-PEM-EL-0071	0	1	PODIUM 02 WALL MOUNTED DETAILS PLAN TOWN HOUSE (3BRD-T-F1)
2				
3				
4				
5				
6				
7				
8				
9				
10				

These are transmitted for:

☐ Your Information ☒ Approval ☐ Checking ☐ Review and Comment

We certify that the above shop drawings have been coordinated

Submitted by:

Signature

3. ENGINEER'S COMMENT:

#	Drawing No.	Rev.	Code	Comment
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Code Legend:

1 APPROVED 2 APPROVED As NOTED 3 RESUBMIT For APPROVAL 4 REJECTED

Signature:

DATE / /

Approval shall not relieve Contractor of any of his obligations under the Contract or constitute authorization of any change to Contract Documents or variation to the works. Contractor is responsible for dimensions, quantities and coordination with other trades.

OMNIYAT

NAGA



Submittal No.:

OA2-MEP-SD-EL-0271

REV. 0

Project: (22-020-DXB) ANWA ARIA TOWER (G+4P+32+R) RESIDENTIAL BUILDING DEV 2 ON PLOT No. 08A
@ DUBAI MARITIME CITY, DUBAI, UAE

Date: 13-Oct-2025

Client: Bluestar Real Estate Development LLC
Client Rep.: Omnyat Projects Management LLC
Consultant: NAGA Architects
Contractor: General Construction Company
MEP Contractor: Pluto ElectroMechanical Contracting LLC sp

TRANSMITTAL OF DRAWINGS

1. SUBJECT DESCRIPTION:

13TH FLOOR PLAN FIRE ALARM & VOICE EVACUATION (BIM MODEL)

Area of Application:

LEVEL 13TH FLOOR

Drawing Ref.:



2. SUBMITTAL DETAILS

#	Drawing No.	Rev.	No. of Copy	Description
1	OA2-MEP-SD-PEM-FA-0013	0	1	13TH FLOOR PLAN FIRE ALARM & VOICE EVACUATION (BIM MODEL)
2				
3				
4				
5				
6				
7				
8				
9				
10				

These are transmitted for:

☐ Your Information ☒ Approval ☐ Checking ☐ Review and Comment

We certify that the above shop drawings have been coordinated

Submitted by:

Signature

3. ENGINEER'S COMMENT:

#	Drawing No.	Rev.	Code	Comment
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Code Legend:

1 APPROVED 2 APPROVED As NOTED 3 RESUBMIT For APPROVAL 4 REJECTED

Signature:

DATE / /

Approval shall not relieve Contractor of any of his obligations under the Contract or constitute authorization of any change to Contract Documents or variation to the works. Contractor is responsible for dimensions, quantities and coordination with other trades.



Contract Ref# P.310-MAC-LUZ-SCA-002 (Pluto)

Date: 04th of Mar 2026

Sub-Contract Agreement

Project : Proposed G+2P+8+R Residential Building on Plot No. 1010508, Nakhlai, Deira (Luz Ora Residences)

Subject: Preparation of Shop Drawings and Coordination Drawings.

MEP- Contractor: M/s. MAC Electromechanical Engineering Contracting LLC
P.O. Box 98684 – Dubai, UAE

Sub-Contractor: Pluto Electromechanical Contracting -Pluto EMC
Egypt -Cairo - New Cairo - first district - Benefsej 09 - villa #123
P.O. BOX: +202 23079366 / +201019365251
Tel: N/A
Trade License # N/A
TRN# N/A

With reference to the above-mentioned project & Pluto Electromechanical Contracting -Pluto EMC Quotation Reference Pluto-14-MAC-2026-Nakheel dated 05 February 2026, we are pleased to award you the contract for the Preparation of Shop Drawings and Coordination drawings as per the scope of work mentioned in this contract

- M/s. MAC Electromechanical Engineering Contracting LLC (Hereinafter referred to as 'MEP contractor' / First Party)
- Pluto electromechanical contracting -Pluto EMC (Hereinafter referred to as 'Subcontractor / Second Party')

- Scope of work. (Package)
- Project Details.
- Commercial.
- Exclusions.
- General Conditions
- Appendix – 01 - List of Contract Documents, Vendor List, Drawings & Specification

I) Scope of work:

- The subcontractor shall ensure the preparation of shop drawings in compliance with the main contract documents, specifications, and applicable authority requirements, subject to Engineer/Employer approval, as necessary to facilitate the execution of the package.
- The subcontractor shall prepare and update coordination drawings for all systems under MAC's scope and its specialist subcontractors (including upgrading to the required level of coordination), ensuring all drawings are fully clash-free, including, but not limited to:
 - Builders' Work for Slabs
 - Builders' Work for Walls
 - Reflected Ceiling Plans (RCP)
 - Full MEP Shop Drawings
 - Wall Coordination
 - Full MEP Coordination
 - House Connection Drawings
 - Schedules
 - Full MEP As-Built Drawings



P.O. Box: 98684, Dubai - United Arab Emirates, Tel: +971 4 2583305 | Fax: +971 4 2583306 | E-mail: info@mac-mep.com

Page 1 of 7



DATE: 18/11/2025

SUBCONTRACT AGREEMENT

Agreement: On this date, 18th November 2025, both parties have come to an agreement and acknowledge with full understanding the following terms and conditions:

1-M/s PLUTO ELECTRO MECHANICAL CONT. LLC SP
P.O. Box 41413, Sharjah, UAE
(Hereinafter referred to as the "First Party")

AND

2-M/s PLUTO ELECTRO MECHANICAL CONT. - EGYPT
CAIRO, EGYPT
(Hereinafter referred to as the "Second Party")

Background: The First Party, M/s PLUTO, has entered into a contract as the MEP Contractor for the PROPOSED B+G+1 PRIVATE VILLA ON PLO NO.6314082 - DUBAI HILLS – DXB/24/716 & B+G+2 FLOOR PRIVATE VILLA, ON PLOT NO.6181236, NADD AL SHIBA FIRST, DUBAI – DXB/23/692 & DXB/24/716 & B+G+2 FLOOR PRIVATE VILLA, ON PLOT NO.6181241, NADD AL SHIBA FIRST, DUBAI – DXB/23/699

The Second Party, M/s PLUTO ELECTRO MECHANICAL CONT. - EGYPT agrees to act as a Sub-Contractor for the above project under the terms set forth below.

APPENDIX 1 - GENERAL CONDITIONS

Detailed Scope of Work:

- Preparation of Coordinated MEP Shop drawings in 3D for execution as per – scope of work attached for each field and phases in fully detailed
- Technical support and coordination with the project stakeholders during the project until the built drawings in preparation.

1. General Scope

- Prepare 3D coordinated shop drawings for MEP systems based on IFC/design drawings, project specifications and standards.
- Ensure compliance with codes (AHRAE, NFPA, IPC, NEC, IEC, local codes)
- Incorporate manufacturer's data, equipment dimensions, and installation details.
- Coordinate with architectural and structural disciplines to avoid clashes.



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Alman +971 8 748 7275

41413 Sharjah

www.plutoemc.com

plutoemc@emirates.net.ae



Contract Ref# P.311-MAC-SHL-SCA-001 (Pluto)

Date: 04th of Mar 2026

Sub-Contract Agreement

Project : Shoreline Residential Development at Plot No. BFR02, Al Marjan Island, Ras Al Khaimah, UAE
Subject: Preparation of Shop Drawings and Coordination Drawings.
MEP- Contractor: M/s. MAC Electromechanical Engineering Contracting LLC
P.O. Box 98684 – Dubai, UAE
Sub-Contractor: Pluto Electromechanical Contracting -Pluto EMC
P.O. BOX: Egypt -Cairo - New Cairo - first district - Benefsej 09 - villa #123
Tel: +202 23079366 / +201019365251
Trade License # N/A
TRN# N/A

With reference to the above-mentioned project & Pluto Electromechanical Contracting -Pluto EMC Quotation Reference Pluto-17-MAC-2026-DAMAC dated 16 February 2026, we are pleased to award you the contract for the Preparation of Shop Drawings and Coordination drawings as per the scope of work mentioned in this contract

- M/s. MAC Electromechanical Engineering Contracting LLC (Hereinafter referred to as 'MEP contractor' / First Party)
- Pluto electromechanical contracting -Pluto EMC (Hereinafter referred to as 'Subcontractor / Second Party')

- Scope of work. (Package)
- Project Details.
- Commercial.
- Exclusions.
- General Conditions

I) Scope of work:

- The subcontractor shall ensure the preparation of shop drawings in compliance with the main contract documents, specifications, and applicable authority requirements, subject to Engineer/Employer approval, as necessary to facilitate the execution of the package.
- The subcontractor shall prepare and update coordination drawings for all systems under MAC's scope and its specialist subcontractors (including upgrading to the required level of coordination), ensuring all drawings are fully clash-free, including, but not limited to:
 - Builders' Work for Slabs
 - Builders' Work for Walls
 - Reflected Ceiling Plans (RCP)
 - Full MEP Shop Drawings
 - Wall Coordination
 - Full MEP Coordination
 - House Connection Drawings
 - Schedules
 - Full MEP As-Built Drawings
- Process and submission of all calculations under MAC scope in coordination with the Main Contractor, including but not limited to Fan ESP calculations, Pump head calculations, Voltage drop calculations to obtain the approvals of the related authorities, the Engineer & Client.

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Page 1 of 4



Contract Ref# P.313-MAC-JGE-SCA-001 (Pluto)

Date: 04th of Mar 2026

Sub-Contract Agreement

Project : JGE Plots Community Town House at Jumeirah Golf Estates, Dubai-UAE
Subject: Preparation of Shop Drawings and Coordination Drawings.
MEP- Contractor: M/s. MAC Electromechanical Engineering Contracting LLC
P.O. Box 98684 – Dubai, UAE
Sub-Contractor: Pluto Electromechanical Contracting -Pluto EMC
P.O. BOX: Egypt -Cairo - New Cairo - first district - Benefsej 09 - villa #123
Tel: +202 23079366 / +201019365251
Trade License # N/A
TRN# N/A

With reference to the above-mentioned project & Pluto Electromechanical Contracting -Pluto EMC Quotation Reference Pluto-16-MAC-2026-DG dated 11 February 2026, we are pleased to award you the contract for the Preparation of Shop Drawings and Coordination drawings as per the scope of work mentioned in this contract

- M/s. MAC Electromechanical Engineering Contracting LLC (Hereinafter referred to as 'MEP contractor' / First Party)
- Pluto electromechanical contracting -Pluto EMC (Hereinafter referred to as 'Subcontractor / Second Party')

- Scope of work. (Package)
- Project Details.
- Commercial.
- Exclusions.
- General Conditions
- Appendix – 01 List of Contract Documents, Vendor List, List of Drawings & submission dates (subject to change)

I) Scope of work:

- The subcontractor shall ensure the preparation of shop drawings in compliance with the main contract documents, specifications, and applicable authority requirements, subject to Engineer/Employer approval, as necessary to facilitate the execution of the package.
- The subcontractor shall prepare and update coordination drawings for all systems under MAC's scope and its specialist subcontractors (including upgrading to the required level of coordination), ensuring all drawings are fully clash-free, including, but not limited to:
 - Builders' Work for Slabs
 - Builders' Work for Walls
 - Reflected Ceiling Plans (RCP)
 - Full MEP Shop Drawings
 - Wall Coordination
 - Full MEP Coordination
 - House Connection Drawings
 - Schedules
 - Full MEP As-Built Drawings

8



P.O. Box: 98684, Dubai - United Arab Emirates, Tel: +971 4 2583305 | Fax: +971 4 2583306 | E-mail: info@mac-mep.com

Page 1 of 10



بلوتو للمقاولات الكهربائية والميكانيكية ذ.م.م - ش.ش.و
Pluto Electro Mechanical Cont. L.L.C SP

DATE: 18/11/2025

SUBCONTRACT AGREEMENT

Agreement: On this date, 18th November 2025, both parties have come to an agreement and acknowledge with full understanding the following terms and conditions:

1-M/s PLUTO ELECTRO MECHANICAL CONT. LLC SP
P.O. Box 41413, Sharjah, UAE
(Hereinafter referred to as the "First Party")

AND

2-M/s PLUTO ELECTRO MECHANICAL CONT. - EGYPT
CAIRO, EGYPT
(Hereinafter referred to as the "Second Party")

Background: The First Party, M/s PLUTO, has entered into a contract as the MEP Contractor for the *ANWA 2 G + 4P + 32 + RESIDENTIAL BUILDING DEV. 2 AT DUBAI MARITIME CITY, DUBAI UAE* under the Main Contractor M/s GENERAL CONSTRUCTION COMPANY, and supervised by the Consultant, M/s NAGA ARCHITECTS.

The Second Party, M/s PLUTO ELECTRO MECHANICAL CONT. - EGYPT agrees to act as a Sub-Contractor for the above project under the terms set forth below.

APPENDIX 1 - GENERAL CONDITIONS

Detailed Scope of Work:

- Preparation of Coordinated MEP Shop drawings in 3D for execution as per – scope of work attached for each field and phases in fully detailed
 - Technical support and coordination with the project stakeholders during the project until the built drawings in preparation.
1. General Scope
- Prepare 3D coordinated shop drawings for MEP systems based on IFC/design drawings, project specifications and standards.
 - Ensure compliance with codes (AHJ, F.E, NFPA, IPC, NEC, IEC, local codes)
 - Incorporate manufacturer's data, equipment dimensions, and installation details.
 - Coordinate with architectural and structural disciplines to avoid clashes.



Page 1 of 13



ماك الكهرو ميكانيكية الهندسية للمقاولات ش.ذ.م.م
MAC ELECTROMECHANICAL ENGINEERING CONTRACTING LLC

Contract Ref# P.310-MAC-LUZ-SCA-002 (Pluto)

Date: 04th of Mar 2026

Sub-Contract Agreement

Project : Proposed G+2P+8+R Residential Building on Plot No. 1010508, Nakhlat, Deira (Luz Ora Residences)

Subject: Preparation of Shop Drawings and Coordination Drawings.

MEP- Contractor: M/s. MAC Electromechanical Engineering Contracting LLC
P.O. Box 98684 – Dubai, UAE

Sub-Contractor: Pluto Electromechanical Contracting -Pluto EMC
P.O. BOX: Egypt -Cairo - New Cairo - first district - Benefsej 09 - villa #123
Tel: +202 23079366 / +201019365251
Trade License # N/A
TRN# N/A

With reference to the above-mentioned project & Pluto Electromechanical Contracting -Pluto EMC Quotation Reference Pluto-14-MAC-2026-Nakheel dated 05 February 2026, we are pleased to award you the contract for the Preparation of Shop Drawings and Coordination drawings as per the scope of work mentioned in this contract

- M/s. MAC Electromechanical Engineering Contracting LLC (Hereinafter referred to as 'MEP contractor' / First Party)
- Pluto electromechanical contracting -Pluto EMC (Hereinafter referred to as 'Subcontractor / Second Party')

- Scope of work. (Package)
- Project Details.
- Commercial.
- Exclusions.
- General Conditions
- Appendix – 01 - List of Contract Documents, Vendor List, Drawings & Specification

I) Scope of work:

- The subcontractor shall ensure the preparation of shop drawings in compliance with the main contract documents, specifications, and applicable authority requirements, subject to Engineer/Employer approval, as necessary to facilitate the execution of the package.
- The subcontractor shall prepare and update coordination drawings for all systems under MAC's scope and its specialist subcontractors (including upgrading to the required level of coordination), ensuring all drawings are fully clash-free, including, but not limited to:

- Builders' Work for Slabs
- Builders' Work for Walls
- Reflected Ceiling Plans (RCP)
- Full MEP Shop Drawings
- Wall Coordination
- Full MEP Coordination
- House Connection Drawings
- Schedules
- Full MEP As-Built Drawings





بلوتو للمقاولات الكهربائية والميكانيكية ذ.م.م - ش.ش.و.
Pluto Electro Mechanical Cont. L.L.C SP

DATE: 25/11/2025

SUBCONTRACT AGREEMENT

Agreement: On this date, 25TH November 2025, both parties have come to an agreement and acknowledge with full understanding the following terms and conditions:

1-M/s PLUTO ELECTRO MECHANICAL CONT. LLC SP
P.O. Box 41413, Sharjah, UAE
(Hereinafter referred to as the "First Party")

AND

2-M/s PLUTO ELECTRO MECHANICAL CONT. - EGYPT
CAIRO, EGYPT
(Hereinafter referred to as the "Second Party")

Background: NAYA CLUSTER – 1 MOHAMMAD BIN RASHID CITY
DISTRICT ONE- PHASE 3A-2 SOUTH (NAYA -1 G + 19 + ROOF) (NAYA-
2=G +12+ROOF) (NAYA-3=G+16+ROOF) AL MAYDAN DUBAI Main
Contractor: M/S BHATIA GENERAL CONTRACTING COMPANY LLC.
Consultant: M/S CONIN INTERNATIONAL CONSULTANT Client: M/S
DISTRICT ONE - FZ

The Second Party, M/s PLUTO ELECTRO MECHANICAL CONT. - EGYPT
agrees to act as a Sub-Contractor for the above project under the terms set forth
below.

APPENDIX 1 - GENERAL CONDITIONS

Detailed Scope of Work:

1. General Scope

- Prepare 3D coordinated shop drawings for Mechanical, Electrical, and Plumbing systems based on IFC/design drawings, project specifications, and standards.
- Ensure compliance with codes (ASHRAE, NFPA, IEC, IEC, local codes).



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بلوتو للمقاولات الكهربائية والميكانيكية ذ.م.م - ش.ش.و.
Pluto Electro Mechanical Cont. L.L.C SP

DATE: 25/11/2025

SUBCONTRACT AGREEMENT

Agreement: On this date, 25TH November 2025, both parties have come to an agreement and acknowledge with full understanding the following terms and conditions:

1-M/s PLUTO ELECTRO MECHANICAL CONT. LLC SP
P.O. Box 41413, Sharjah, UAE
(Hereinafter referred to as the "First Party")

AND

2-M/s PLUTO ELECTRO MECHANICAL CONT. - EGYPT
CAIRO, EGYPT
(Hereinafter referred to as the "Second Party")

Background: NAYA CLUSTER – 1 MOHAMMAD BIN RASHID CITY
DISTRICT ONE- PHASE 3A-2 SOUTH (NAYA -1 G + 19 + ROOF) (NAYA-
2=G +12+ROOF) (NAYA-3=G+16+ROOF) AL MAYDAN DUBAI Main
Contractor: M/S BHATIA GENERAL CONTRACTING COMPANY LLC.
Consultant: M/S CONIN INTERNATIONAL CONSULTANT Client: M/S
DISTRICT ONE - FZ

The Second Party, M/s PLUTO ELECTRO MECHANICAL CONT. - EGYPT
agrees to act as a Sub-Contractor for the above project under the terms set forth
below.

APPENDIX 1 - GENERAL CONDITIONS

Detailed Scope of Work:

1. General Scope

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- Ensure compliance with codes (ASHRAE, NFPA, IEC, IEC, local codes).



Page 1 of 4



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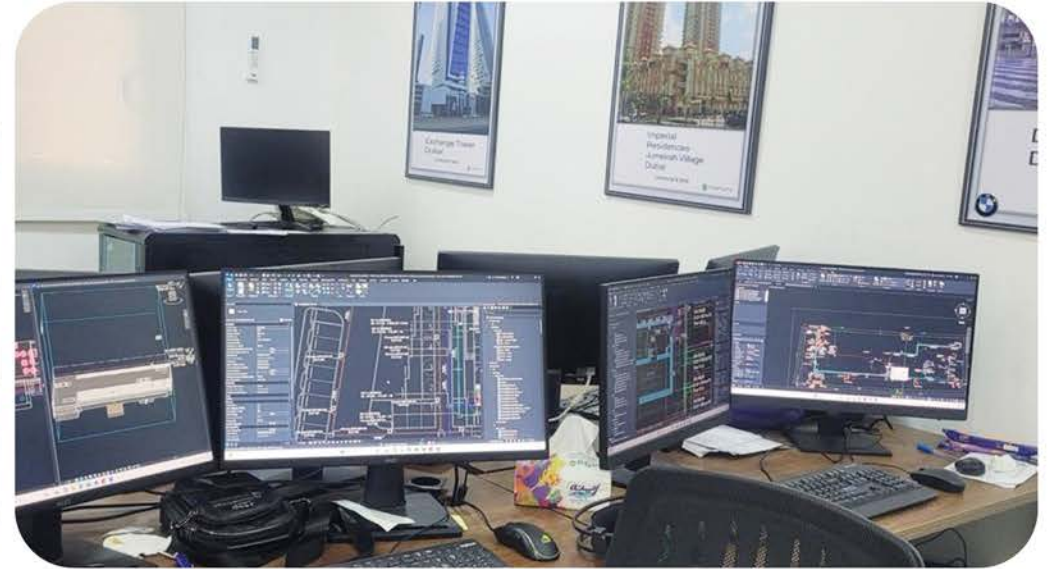
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plutoemc@emirates.net.ae





OUR PROJECTS



AL WASL

Commercial & Retail

✓ COMPLETE



MARINA CONTINENTAL TOWER

Commercial & Retail

✓ COMPLETE



SOLBAY

Commercial & Retail

✓ COMPLETE



G+6 AL SATWA

Commercial & Retail

✓ COMPLETE



G+8 AL SATWA

Commercial & Retail

✓ COMPLETE



AL MAMZAR CHARITY

CHARITY & Government



Court Tower Dubai

Commercial & Retail

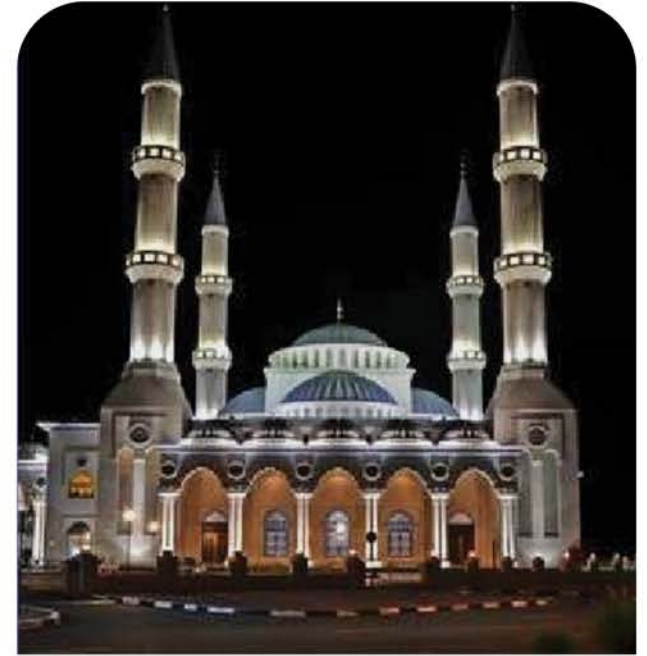
✓ COMPLETE



DEIRA FISH MARKET DUBAI

Commercial & Retail

✓ COMPLETE



Farooq Mosque

Mosque & School

✓ COMPLETE



Ministry of Health Dubai

Hospital & Government

✓ COMPLETE



Port View

Commercial & Retail

✓ COMPLETE



INTERNATIONAL CITY-JAP05

Commercial & Retail

✓ COMPLETE

OUR PROJECTS



HORIZON TOWER

Commercial & Retail

✓ COMPLETE



INTERNATIONAL CITY-P-14

Commercial & Retail

✓ COMPLETE



INTERNATIONAL CITY-P-15

Commercial & Retail

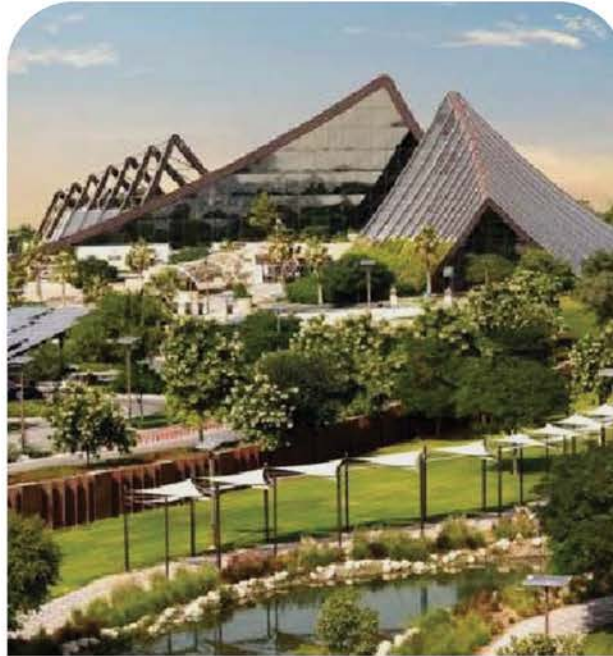
✓ COMPLETE



Dragon Mart Dubai

Commercial & Retail

✓ COMPLETE



Dubai Safari Park

Commercial & Retail

✓ COMPLETE



Red Residence, Dubai Sports City

Commercial & Retail

✓ COMPLETE

OUR PROJECTS



Kensington Royale Dubai

Commercial & Retail

✓ COMPLETE



Imperial Residences Jumeirah Village Dubai

Commercial & Retail

✓ COMPLETE



G+3P+M 20 BUILDING AL GWAIR

Commercial & Retail

✓ COMPLETE



**B+G+14TYP
FLOORS TECOM
DUBAI**

Commercial & Retail

✓ COMPLETE



**2B+G+14 AT
EMIRATES HILLS
SECOND**

Commercial & Retail

✓ COMPLETE



**B+G+14 MEDI
FREE ZONE
AUTHORITY**

Commercial & Retail

✓ COMPLETE

OUR PROJECTS



Al Majaz Tower Sharjah

Commercial & Retail

✓ COMPLETE



ASAS TOWER SHARJAH

Commercial & Retail

✓ COMPLETE



Danat Al Khan Tower Al Sharjah

Commercial & Retail

✓ COMPLETE



TheEmirate National School

School & Mosque

✓ COMPLETE



AlNoorMosque Sharjah

Mosque & School

✓ COMPLETE



Damas63Al- Nahda Sharjah

Commercial & Retail

✓ COMPLETE

OUR PROJECTS



GF+5P+20TYP FLRS AT AL NAHDA SHJ

Commercial & Retail

✓ COMPLETE



Sharjah Airport Cargo 1 & 2

Commercial & Retail

✓ COMPLETE



Misk Apartments in Al Jada, Sharjah

Commercial & Retail

✓ COMPLETE



G+1 SCHOOL BUILDING AT MOWELEH, SHARJAH

Commercial & Retail

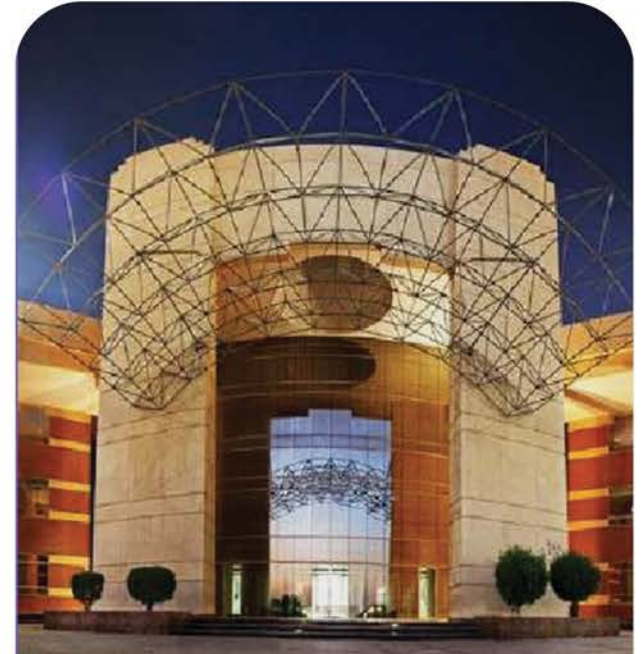
✓ COMPLETE



AL SALAM CITY 18 VILLAS

Commercial & Retail

✓ COMPLETE



Ajman University

University & School

✓ COMPLETE

OUR CLIENTS

EMAAR





OMNIYAT





PLUTO EMC
EGYPT

☎ +202 230 79366

☎ +201019365251

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✉ info@pluto-mep.com

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