

Revit Technology provides a great solution to the design, drafting, detailing & 3D modeling problems

This publication shows that Revit technology plays an important role in designing, drafting & 3D modeling for Architectural, Mechanical, Structural, Electrical and HVAC sectors.

Nov. 30, 2009 - [PRLog](#) -- Global Associates is a recognized service provides of CAD based design, drafting and modeling services for architects, engineering consultants, building contractors, structural engineers, electrical/mechanical contractors and real estate developers across the globe using most powerful and industry standard 2D and 3D CAD and Revit software including : AutoCAD, ADT, MicroStation, Vectorworks, TurboCAD, StruCAD, Revit Architecture, Revit Structural, Revit MEP etc.

Details Service Segments :-

Design Development & Construction Documents

- Global Associates can offer full design development & construction document set in CAD according to client's standard for submittal from schematic design and design development phase.
- Creation of floor plan, exterior elevations, interior elevation, architectural lighting & electrical plan, building sections, wall sections & other large scale sections and computer-generated three-dimensional concept models from hand sketches or Auto CAD drawing and deliver as the Revit file, as AutoCAD drawings, PDF files, or even Sketch-Up files.
- Assemble drawings and create geometry, symbols and annotation according to client standards resulting in consistent, high quality construction documents.
- Code analysis, fire rated wall and life safety plan
- Reflected ceiling plans
- Millwork plan, elevations and details
- Window, door and room finish schedule
- Window and door details

REVIT Modeling

Global Associates can create parametric intelligent BIM CAD models from sketches or rough CAD drawings using Revit Architecture to provide greater control and accuracy to the design stage of projects. Global Associates can also create revit based models for construction drawings, associated drawings and schedule.

3D CAD Visualization

Global Associates can provide 3D BIM Modeling and detailing services using Autodesk Revit, AutoCAD, Architectural Desktop (ADT) and AutoCAD Architecture before exporting them into 3D Studio Max (3DS Max) to create realistic rendered landscapes, interior design(furniture) and buildings for visualization purposes. Revit can also be used to create coordinated models, elevations, plans and schedules, analyse the carbon footprint of a building using green building data function (gbxml).

3 Dimensional Rendering

Global Associates offer high quality, affordable photorealistic conceptual renderings & 3D perspective in Piranesi (interior and exterior views) including exterior elevations, streetscapes, 2D floorplans, 3D floorplans and siteplans to visualize the home in 3D.

3D Walkthroughs & Flyovers

Global Associates generates walk-thrus & flyovers in Revit or Sketch-Up provide a stunning visual

experience of the exterior and interior space and finishes of the buildings. Typical inputs for creating 3D packages contain construction plans and drawings, site plans, roofing plans, & elevations for exteriors as well as furniture layout and finishes for interiors.

Global Associates also apply 3DS Max for creating 3D models with stylish audio video interleave (AVI) or Flash files following pre-defined routes for demonstration purposes. Pragmatism is attached to each AVI or Flash through the addition of vehicles, landscaping material and people.

Architectural CAD drafting Outsourcing

Global Associates offer architectural drafting and architectural detailing services for all types and all stages of projects from tender, planning, working and construction drawings and details for industrial, commercial, retail and residential projects to support the design, planning and visualization phase of projects for architects.

Architectural CAD drafting includes complete construction drawing sets (CD Sets) for retail chains. All drawings comprise all aspects of space planning and interior design and construction. Global Associates also create a series of sheets (plans, elevations and sections) for construction purposes.

Cad Drafting for MEP Sectors

Global Associates provide end-to-end solutions in designing, drafting and 3D modeling for all the phases of mechanical, electrical and plumbing (MEP). Detailed services include lay-out design and production of detailed shop & coordination drawings for mechanical, HVAC, lighting, fire protection, duct-work, electrical, plumbing and piping systems, heat load calculations and collision detection.

- Coordination among various MEP trades
- Collision detection
- Fabrication drawings
- Shop drawings
- Builders work drawings
- Schedules, Bills of Materials, Detailed section views
- Parametric modeling and library creation of HVAC & MEP components

Structural Engineering

Global Associates delivers cost-effective structural design, drafting, documentation and modeling solutions for all phases of the structural engineering design process. Detailed services include 2D drafting and 3D modeling services for Steel, RCC, Reinforced, Precast, Post-tensioned, Pre-stressed & Composite structures using Revit structure.

Global Associates produce precise 3D models for various structure details - welding symbols, rebar, anchor bolts, concrete area reinforcement, etc.

Structural elements such as foundations, walls, beams, trusses, slabs and bracings are integrated in the design process to make sure dimension based formation and modification of structural components. The end result is outstanding structural detail drawings, layout of plans, elevations, sections and legends in 2D or 3D formats as indicated by client standards and requirements.

- Reinforcement in concrete
- Sloped slabs
- Steel beam cutbacks
- Improvements in foundation
- Dimension enhancement

Steel Detailing

Global Associates offer high-class steel detailing services to architects, engineers and steel fabricators providing service for the residential, commercial, infrastructure and industrial segments of the AEC industry.

A 3D model is created of the complete steel structure inclusive all related information necessary for ordering, fabrication and erection from X-Steel based 3D solid modeling system.

Global Associates have the expertise in steel bridge detailing, steel fabrication detailing, Stru Cad 3D and structural steel design work.

All drawings, material lists and bolt lists are produced automatically from the 3D model together with data for CNC machinery.

- Produce electronic models and layout drawings
- Electronic lists of project materials and detailed drawings and reports
- Steel fabrication drawings
- Provision of 3D general arrangements
- Assembly drawings
- Advanced bill of materials
- Anchor bolt layouts
- Material order lists
- Fitting sheets
- CNC information
- Steel Joist & Deck Detailing
- ReBar Detailing
- Boiler/Vessel Detailing

Useful Links:

<http://www.revitdrafting.com/revit-model.htm>

<http://www.revitdrafting.com/services.htm>

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Global Associates provide assistance to the global clients by Computer Aided Design technology with BIM and Revit to demonstrate the building life cycle from start to finish, including the processes of construction and facility operation to everyone involved in the building lifecycle.

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