

One Group One Vision MULTIPLE SOLUTIONS



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Virtual Design & Construction

VDC

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Virtual Design & Construction (VDC) is an advanced design/construction methodology that integrates digital technologies, leveraging 3D models (BIM) and collaboration tools to plan, budget, design and manage construction projects more effectively.

VDC CAPABILITIES

- 3D Model Coordination and Clash Detection
- Model Simulation, Rendering and Design Iterations
- Design & Construction Management Software
- Develop As-Built 3D models for renovation projects, QA/QC purposes, coordination and even marketing uses (Reality Capture)
- Integration with Facility Management and Operation Systems
- Construction Sequencing, Phasing and Scheduling (4D modeling)
- Takeoff/Cost Estimation and Budgeting (5D modeling)
- Integrated Project Delivery (IPD)
- Preconstruction Visualization for planning, QA/QC and risk mitigation
- Future Advancements and Innovation (AI)
- Augmented Reality (AR) for enhanced site walkthroughs and inspections
- Virtual Reality (VR) for off-site walkthroughs

VDC BENEFITS

- Greatly Enhanced Quality and Consistency of Deliverables due to standardization and single source of truth for project data
- Less Rework, Fewer Revisions and Minimized Uncertainty
- Greater Client Satisfaction and Engagement
- Improved Coordination and Collaboration to accelerate project closeout
- Increased Interaction, Transparency and Accountability with subcontractors and stakeholders
- Integration of all Departments (Engineering, Construction, Accounting, Marketing, etc.) through cloud-based solutions
- Optimized Efficiency across all stages of a project
- Value Engineering for cost savings to Maximize Profitability
- Ongoing Training and Development
- Continuous Improvement and Innovation across the entire company