

VBMP 3D Buildings Products

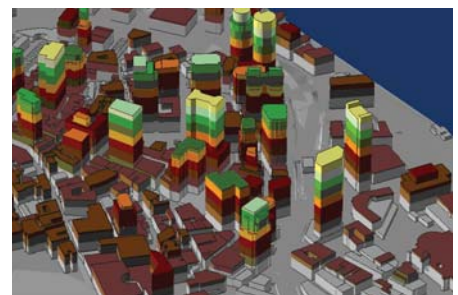
VIRGINIA BASE MAPPING PROGRAM

Sanborn offers a suite of 3D building products designed for 3D visualizations, GIS applications, architectural modeling, 3D graphic design, and 3D simulators. Sanborn 3D Buildings products are accurate geo-registered (x, y, z) models provided in formats ready for most 3D application tools. Sanborn also offers a free Sanborn 3D Viewer that supports common 3D formats with all deliverables.

3D Standard Building Models (VBMP Program Priced Option)

Accurate geo-registered 3D “block-style” building models that provide users with block geometry and elevations. These building models are currently available through the Sanborn CitySets® product line and can be produced for new areas. Sanborn standard building models are featured for 40 major US cities within Google Earth.

- Accurate Geo-registered (x, y, z) models
- Common coordinate systems
- Block geometry with flat roof elevations
- Multiple building roof elevations captured every 33 feet or greater
- Standard building models can also be generic or photo-real textured
- Common output model formats:
 - ESRI z-shapfiles or TINs
 - Google KML
 - AutoCAD (.dwg/.dxf)
 - 3D Studio File Format (.3ds)
 - Openflight (.flt)
 - Other formats available



Sample 3D Standard Building Models

3D Premium Buildings (Custom Quote Option)

Building models with true architectural geometry and photo-real texturing.

- Accurate Geo-registered (x, y, z) models
- Common coordinate systems
- True architectural geometry
- High-resolution photo-real texturing
- Common output model formats:
 - 3D Studio File Format (.3ds)
 - Wavefront (.obj)
 - Openflight (.flt)
 - Other formats available

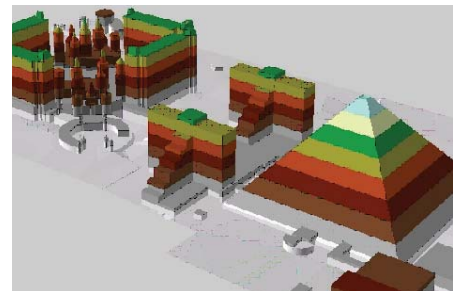


Sample 3D Premium Building Models

3D True-Architectural Buildings (Custom Quote Option)

Geo-registered building models with true architectural geometry.

- Accurate Geo-registered (x, y, z) models
- Common coordinate systems
- True architectural geometry
- Common output model formats:
 - 3D Studio File Format (.3ds)
 - Openflight (.flt)
 - Wavefront (.obj)
 - ESRI z-shapfiles or TINs
 - AutoCAD (.dwg/.dxf)
 - Other formats available

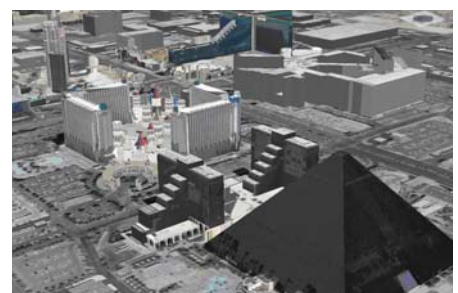


Sample 3D True Architectural Models

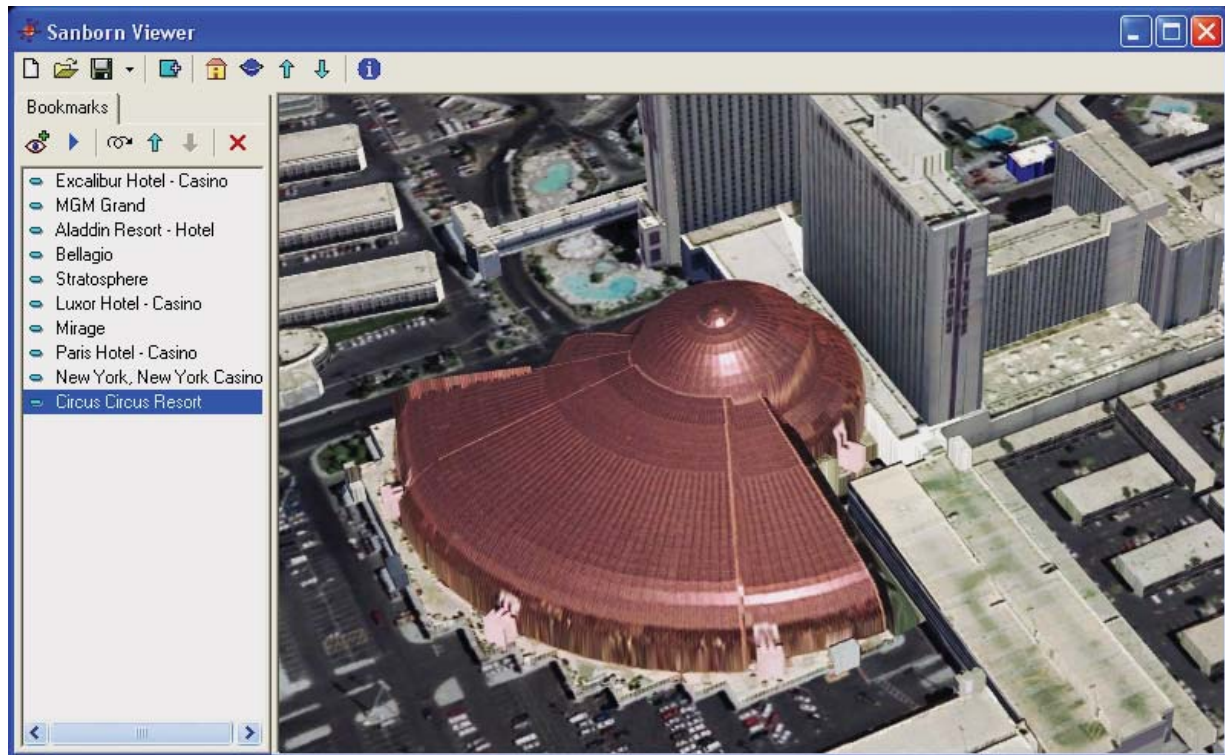
3D Full Modeling (Custom Quote Option)

Sanborn can integrate high resolution orthoimagery, 3D premium buildings, 3D standard buildings, and texturing to offer customers a final 3D full model output. The result is a fully functional 3D model in common formats that can be imported into a number of 3D visualization applications.

- Accurate Geo-registered (x, y, z) full model
- Integrate aerial imagery or satellite imagery with fully textured 3D premium or standard buildings
- Common output model formats:
 - TerreX (.txp)
 - Openflight (.flt)
 - Other formats available
 - 3D Studio File Format (.3ds)
 - Open Scene Graph (.ive)



Sample 3D Full Modeling



Sanborn Viewer

Sanborn offers a free lightweight, easily useable 3D Viewer which allows customers to visualize common 3D model formats. The viewer allows:

- Loading of multiple 3D model formats into one view
- Full navigation functionality
- Save multiple project files
- Save custom named bookmarked views
- Load common formats:
 - 3D Studio File Format (.3ds)
 - Multigen Openflight (.flt)
 - TerreX Terrapage (.txp)
 - Open Scene Graph (.ive)

System Requirements:

Operating System: Microsoft Windows 2000 or XP

Application Software: Microsoft .Net Framework

CPU Speed: 1.8GHZ or better

Memory: 512MB or better

Graphics: Fully-compliant OpenGL video card (128MB minimum)*

Video: XGA or better resolution

* Specific video memory requirements are dependent upon number and complexity of the textures, number of 3D models, etc; video cards with less memory may reduce performance and/or functionality of 3D rendering.

Minimum Order

- **3D Standard Buildings (VBMP Program Priced Option)**
Minimum order: 2 square miles
- **3D Premium Buildings (photo-real textured)**
Minimum order: 10 buildings
- **3D True-Architectural Buildings (non-textured)**
Minimum order: 10 buildings
- **3D Full Models**
Minimum order: 2 square miles

About Sanborn

With a rich tradition of mapping dating back to 1866, Sanborn provides comprehensive end- to-end geospatial solutions. Sanborn offers products and services that satisfy diverse and evolving customer needs for GIS software systems, application development, systems integration, and spatial analysis and modeling. Leveraging precision remote sensing techniques, Sanborn also supports a wide range of applications and users. Sanborn's solutions are founded on a strong legacy of innovative geospatial data collection and processing capabilities. An internationally recognized company, Sanborn has multiple U.S. offices with customers worldwide. For more information, visit www.sanborn.com.