

VBMP Planimetric Mapping Products

VIRGINIA BASE MAPPING PROGRAM

Advances in technology have made geographic information systems more valuable than ever. Today's systems are more powerful—and more complex—than their recent predecessors. Professionals who depend on a GIS to help make important business decisions need a full-service, experienced source to help manage this sophisticated and indispensable tool, and increasingly they're finding it with Sanborn.

What is planimetric data?

Planimetric maps are maps showing only the horizontal position of features on the Earth's surface which reveal geographic objects, natural and cultural physical features, and entities without topographic properties. Topographic features not captured such as roads, buildings, and bodies of water that are visible and identifiable on aerial photographs can be compiled into map features through photogrammetric surveying procedures.

Option 1: Structure Planimetrics Product

- ▣ Derived from one-foot resolution orthophotos to include structures with roofs having an area coverage of 200 square feet or greater.
- ▣ Derived from six-inch resolution orthophotos to include structures with roofs having an aerial coverage of 100 square feet or greater.

Option 2: Other Planimetrics Product

Sanborn Planimetric data product reveals map features that illustrate the following surface categories: (see chart on back for details)

- | | |
|----------------------------|--------------------|
| ▣ Paved & unpaved surfaces | ▣ Railroads |
| ▣ Barriers | ▣ Structures |
| ▣ Distributed areas | ▣ Utilities |
| ▣ Water features | ▣ Water structures |
| ▣ Landmarks | ▣ Street hardware |
| ▣ Vegetation | ▣ Airport |

Value-add options

- ▣ Annotation & attributes:
 - ▣ Names of buildings / roads / hydro
- ▣ Street centerlines
 - ▣ Calculated from road edges
 - ▣ Optional attribution
 - Street prefix, name, type, suffix
 - Address ranges
 - Others
- ▣ Hydro centerlines
 - ▣ Hand placed through water-bodies for a better aesthetic look
 - ▣ Optional attribution



Sample above: Planimetric data, Loudoun County, VA

Sanborn's approach

Sanborn has great experience digitizing planimetric data from aerial photography for use as a base layer of a GIS. With speed and consistency intrinsic to our data processing, Sanborn produces accurate and aesthetically pleasing planimetric data that can meet the specifications of any GIS.

- ▣ Enhanced editing
- ▣ True polygon topology
- ▣ Programming functions
- ▣ QC functions

- ▣ Street centerlines
- ▣ Calculated from road edges
- ▣ Optional attribution
- ▣ Street prefix, name, type, suffix
- ▣ Address ranges
- ▣ Others
- ▣ Hydro centerlines
- ▣ Hand placed through water-bodies for a better aesthetic look
- ▣ Optional attribution

Planimetric Base Product Feature List

Feature	100' scale	200' scale	Feature	100' scale	200' scale	Feature	100' scale	200' scale
	Rates	Rates		Rates	Rates		Rates	Rates
Roads, paved/unpaved			Disturbed Areas			Airport		
Roads	95%	85%	Pile (sand/gravel)	95%	90%	Runway	100%	100%
Shoulder	90%	-	Construction Site	95%	90%	Taxiway	100%	-
Driveways	85%	80%	Quarries	98%	95%	Apron	100%	-
Parking	90%	85%	Open Mine	98%	95%	Runway/taxiway lights	-	-
Concrete	-	-	Rock Outcrop	85%	-	Paint lines	90%	-
Alleys	95%	85%	Boulders	85%	75%	Helipad	100%	-
Sidewalk-private/public	75%	-	Disturbed Areas	95%	95%	Runway/taxiway signs	-	-
Curb	-	-	Lakes	95%	95%			
Steps	-	-	Rivers	99%	99%	Barriers		
Trails	85%	80%	Streams/Creeks	95%	90%	Fences	80%	75%
Road median/island	-	-	Concrete Drain	90%	-	Guard rails	85%	75%
Golf cart paths	95%	-	Ponds	95%	95%	Walls	75%	75%
			Reservoirs	95%	95%	Retaining walls	75%	75%
Structures			Ditches	95%	90%	Gates	-	-
Buildings/courtyards	92%	95%	Marsh/swamp	90%	85%	Cattle guards	-	-
Ruins	95%	90%	Beach	99%	99%	Rock walls	75%	-
Decks >100 sq ft.	90%	-				Water Structures		
Patios >100 sq ft.	90%	-	Vegetation			Bridges	98%	95%
Canopies >100 sq ft.	90%	-	Tree outlines	90%	80%	Dams	98%	85%
Tanks	95%	95%	Single trees	75%	-	Earth dam	95%	65%
Propane tanks	75%	-	Single bushes	-	-	Piers	95%	95%
Silos	95%	90%	Brush outline	90%	-	Breakwater	95%	-
Bunkers	90%	80%	Orchards/nurseries	95%	85%	Wall	85%	-
Foundations	95%	95%	Crops	90%	-	Culverts, small (<20' length)	75%	-
Smokestacks	95%	90%	Hedges	-	-	Culverts, large (>20' length)	90%	50%
Water towers	100%	100%				Restoration ponds	-	-
Stairways	-	-	Utilities			Hidden drains (for connectivity)	-	-
Pool (below grnd)	95%	-	Manholes*	60%	-			
Pools (above grnd)	95%	-	Catch basins*	60%	-	Landmarks		
Windmill	99%	-	Fire hydrants*	40%	-	Golf Course outline	100%	100%
Homes	-	-	Water valves	-	-	Greens	95%	-
			Traffic signals	85%	-	Tees	95%	-
Street Hardware			Traffic signal poles	85%	-	Sand traps	95%	-
Large overhead signs	90%	-	Light poles	85%	30%	Public playgrounds	95%	90%
Billboards	90%	-	Utility poles	90%	40%	Athletic fields	95%	90%
Mailboxes	-	-	Traffic signs	-	-	Open storage	90%	75%
Parking meters	-	-				Cemeteries	100%	95%
Bus stop shelters	95%	-	Railroads			Tennis courts	95%	-
Post	-	-	Railroad	90%	85%	Public parks	98%	90%
Traffic signs	-	-	Abandoned railroad	90%	85%			
Flag poles (commercial govt.)	-	-	Switches	-	-			
Monuments	-	-	Crossing	95%	98%			
			Roundhouse	99%	99%			

* Rate may be improved if feature is painted

Delivery Formats

- ▣ Geodatabase

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.