

# PoP Churches 3D Church Maps and Look Around

PoP Churches Version 8.0 introduces 3D Church Maps and Apple Look Around capabilities to the Church Map View. Previously, all church maps reflected a flat view, as if you were looking directly down on the area instead of viewing the area at an angle.

Over the past several years Apple has introduced 3D maps for many areas of the world. Fortunately they have introduced 3D maps for the California and Hawaii areas encompassing all Presbytery of the Pacific churches.

## What are Apple 3D maps

Apple lists 3D maps in 3 general categories Standard, Satellite Flyover, and Hybrid Flyover, but these names can be a little confusing and misleading. These 3 general map types are:

- 3D Standard maps are street maps that show the position of all roads and many road names. They contain three-dimensional models of structures in the map view. These models, which are not photo-realistic, can be oriented to change the perspective of the 3D view. Many points of interest are overlaid in text on these maps.
- 3D Satellite Flyover maps are photo-realistic views which can be oriented to change the perspective of the 3D view. There are no points of interest or road names overlaid on these maps. These maps appear to be satellite type images, but are actually created with a specialized plane flying multiple passes over a city at a height of just 1,600 feet. The onboard cameras on this plane capture images at precise angles from the ground to capture the sides of structures, and from top down to capture rooftops and ground surfaces. Those images are then processed to produce a high resolution 3D city model. Only selected areas of the world have been captured with this system, but fortunately all PoP churches are located in areas that have been captured.
- 3D Hybrid Flyover maps are 3D Satellite maps that have points of interest and road name overlaid on these maps.

## PoP Churches App 3D maps

The PoP Churches App now contains all three map types in the church map view. They are labelled 3D Standard, 3D Satellite and 3D Flyover (or Standard, Satellite and Flyover on an iPhone)., The 3D Standard map is an Apple 3D Standard map initially facing North and zoomed partially in with a moderate perspective. The 3D Satellite map is an Apple 3D Hybrid Flyover map also initially facing North and zoomed partially in with a moderate perspective. The 3D Flyover map is an Apple Hybrid Flyover map initially facing the front of the church and zoomed in more with a stronger perspective.

It should be emphasized that these initial views are only initial views, and the user can change the map orientation and perspective angle, the area covered, and the zoom level for each map view.

## **How to Move, Zoom, Rotate, and Change Perspective Angle of Apple 3D Maps**

The following are the iPhone and iPad controls for any Apple Map. Equivalent controls are available on a Mac.

- Move around in a map: Drag the map.
- Zoom in or out: Double-tap (leaving your finger on the screen after the second tap), then drag up to zoom in or drag down to zoom out. Or pinch two fingers open or closed on the map. You can also double-tap with a single finger to Zoom in one level or double-tap with two fingers to Zoom out one level.
- Rotate the map: Touch and hold the map with two fingers, then rotate your fingers. To show north at the top of the screen after you rotate the map tap the compass at the upper right.
- Change the perspective angle: Tap and hold the map with two fingers, then drag up to increase the 3D perspective angle or drag down to reduce the 3D perspective angle or create a flat view. Note that the Zoom level affects the 3D perspective angle. You need to be Zoomed in a considerable amount for a 3D image to be displayed.
- Tap the 2D/3D button in the upper right hand corner of the map view to switch between 3D maps and 2D maps.

## **What is Apple Look Around?**

Apple Look Around is a technology that provides interactive panoramas from positions along streets. Look Around allows the user to view 360° street-level imagery, with smooth transitions as the scene is navigated. Apple Look Around is similar to Google Street View, but uses much higher resolution images and allows interactive viewing of all sides of a street as well as continuous movement along a street. It is only currently available in selected cities and countries, but fortunately most Presbytery of the Pacific churches in both California and Hawaii currently have Look Around views. Only two of our churches (Bel Air and St. Luke's/Faith) do not currently have Look Around views, mostly attributable to obstructions or limited church visibility from the street.

Apple uses specially equipped vehicles to traverse all streets in an area to gather high resolution images used for generation of the Look Around views. All churches having Look Around views display a Preview in the lower left hand corner of the associated Church Map. Tapping this Preview image will display the full interactive Look Around view. The following are the iPhone and iPad controls for any Apple Look Around View. Equivalent controls are available on a Mac.

- Drag your finger left or right across the screen to rotate the view from the street in a 360° range. To show a level north view on the screen after you rotate the image tap the compass at the upper right.
- Pinch two fingers open or closed to zoom in or out.
- Drag your finger up or down on the screen to move the view from the street up or down.
- To move along the street forward or backward, or to turn corners, tap the screen at the point on the screen that you desire to move to. This will briefly display a pulsating circle and the image will smoothly and quickly transfer to that point.

Keep in mind that all Look Around images must be viewable from the street because that is where the vehicle capturing the images traversed. Many street names and points of interest, such as restaurants, are overlaid on the Look Around view. The date when the Look Around images were generated is displayed at the bottom left of the screen.

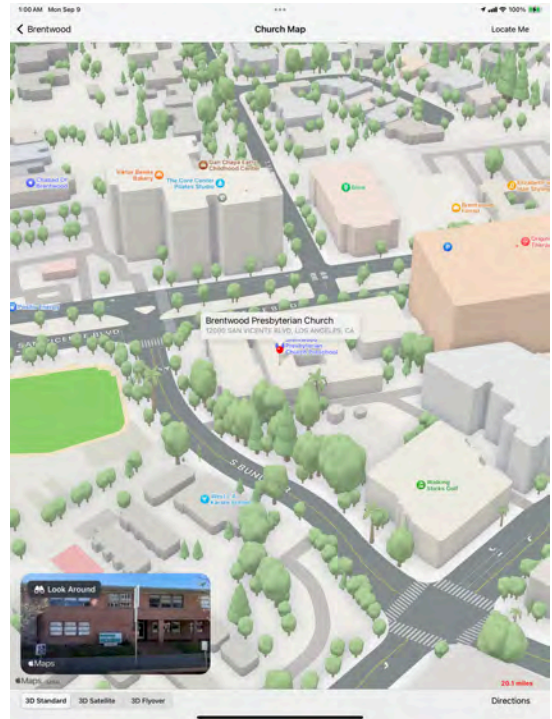
Below are some examples of 3D maps and Look Around views generated by the PoP Churches App running on an iPad.



# Church Map Examples



Calvary Wilmington 3D Standard Map



Brentwood 3D Standard Map



Calvary Wilmington 3D Satellite Map



Calvary Wilmington 3D Flyover Map



## Look Around Examples



Union Church Look Around



Union Church Surrounding Area Look Around

## Google Street View

PoP Churches 8.0.5 adds links to Google Panoramic Street Views for every church having Google Street View support. Only four of our churches (Bel Air, St. John's, United University, and Westwood) do not have Google Panoramic Street View support when viewed on the [google.com](http://google.com) website using Safari. This is the default link for Street View unless the Google Maps App is installed on your device. If the Google Maps App is installed, the Street View link will automatically launch and use the Google Maps App to view Street View images instead of the [google.com](http://google.com) website. Unfortunately, the Google Maps App only displays the panoramic Street View for a limited number of our churches, and displays other church images for most of the rest.

To access Google Street View just touch the Street View icon shown above. Google's panoramic Street View functions similarly to Apple's Look Around feature, with almost identical controls for moving around the view. Many of the church Street View panoramic images open with a view facing the front of the church. In other cases you will need to navigate the Street View to get to a view of the front of the church. An example of Google Street View is shown below.

