Woodcrest Retreat is a campground with a mission to introduce people to Jesus Christ and encourage Christian growth through wholesome programs and quality facilities in a wooded setting.

**Purpose of the Project**

After seeing the bridges that the Messiah College Collaboratory designed and built in Panama, Cliff Martin, the Executive Director of Woodcrest Retreat, asked the Collaboratory to build a similar bridge structure at the campground.

The bridge will:
- Connect two hiking paths at the campground.
- Be visible as visitors enter the Woodcrest Retreat.
- Serve as a distinctive feature of the campground.
- Attract new individuals to Woodcrest Retreat; a place where they can experience the love of Christ.
- Allow project members to gain valuable civil engineering experience, through the use of God-given talents.

**Current Design**

- Cable Suspended Bridge: 78-foot span length.
- 5 tensioned, structural cables.
- Reinforced concrete anchors and tower foundations.
- Steel I-beam towers.
- Timber decking and approach stairs.

**Next Steps**

- Secure building permits
- Finalize design calculations and drawings
- Complete a construction sequence schedule

**Contact Us**

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- Dexter Ehrenzeller
- Brenden Good
- Kurtis Plateael
- Mark Simpkins
- Bradley Sloop

**Location of Woodcrest Retreat**

A children's event at Woodcrest Retreat

**Isometric model of the proposed bridge design**

Profile and top views of the designed bridge with primary dimension labeled.