

THE MIDWEST FACETER

The Official Newsletter of the Midwest Faceter's Guild
Sept Oct 2019

From the President...

Greetings, Faceters!

I'd like to start with a special thanks to guild member Roger Dery, who graciously donated a large box of laps, dops, etc to the raffle. We appreciate all that Roger does for the guild!

The Election of Officers is in October 2019. Please consider a position. Per our By-Laws, all positions change every fiscal year, so we're looking for someone for the positions of President, Vice President, Secretary, and Treasurer. Please give some thought and contact me asap if interested. The Guild is only as strong as its members...

Keep faceting...Blake

Welcome New/Renewed Members!

Frank Brower & Caroline Peterson

Meet & Greet

The Guild had the pleasure of a Meet and Greet with Mr. Jeff Theesfed. He is a member of the New Mexico Faceters Guild. He is also the Historian of the United States Faceters Guild, a Certified Master Faceter, and the proud owner of Pure Brilliance Gems.



The Meet and Greet started at 1 pm and we had a great time. Jeff gave the Guild a presentation on the rare French Blue Gem. We were all amazed. He also talked about the new designs that are coming out of the Australian Gem Contest. It was a pleasure to meet such a knowledgeable faceter as Jeff. We spoke to him about speaking at next year's Seminar. In attendance were Virginia, Jenay, RuthAnn, Melvin, Barb and Blake.

South Bend Rock & Gem Show



The Guild was represented recently at the South Bend Rock and Gem Show by members Virginia Steele and Blake Glupker. They demonstrated faceting and distributed lots of info regarding the Guild. Thanks to both for their time and investment in the Guild!

Announcements

We've been working with the beginning students to reschedule classes in October. We were unable to find a large venue that was available, affordable, accommodated our group size, and worked for our instructors' schedules. The decision was made to offer smaller class sizes for beginners at Cristine's studio in Grand Haven as soon as possible. We're looking at adding Advanced opportunities as part of our next Faceting Frat. Thanks for your understanding. An update will be given at the October Annual Meeting. – Barb Yost, Seminar Chair

Member Suzette Hetrick and Bryan Lehner, (son to long-time members Ruth Ann and Melvin) have both experienced severe medical challenges in the past few months. We send our love and hopes for strength and healing.

Congrats to Eric & Caroline Peterson, who are excitedly awaiting delivery of his long awaited UltraTec machine. Eric hopes to bring the new "baby" to his demos at the Tulip City show.

Annual Meeting

Saturday, October 19th

Noon

Los Tres Amigos

447 South Jefferson St., Mason, MI 48854

This is the Annual Meeting where officers for next year are elected. We order lunch off the menu and pay individually. Meeting/election during & after lunch. Bring your latest faceting marvels. We will be doing our annual drawing/fundraiser. Lots of good stuff this year!

Our meeting is in conjunction with the Central Michigan Lapidary & Mineral Society's 54th Annual Gem & Mineral Show, which runs Fri, Sat & Sunday. Information about their show is in this newsletter and at michrocks.org.

RSVP for lunch to midwestfaceters@gmail.com

Murray Award

What was it? Some may remember!

The Murray Award was given each year in recognition of outstanding long service to the guild. It was named after Helen and Larry Murray who at one time were the "spark plugs" of the guild.

Members of the guild would contact a board member to nominate an individual and include some reasons why they should be considered. The vote took place at the annual meeting and the plaques were awarded at the January meeting.

Would you like to revive this tradition? Change it some way? The last award I remember was in 2009/2010. Bring your suggestions to the October meeting or contact a board member.

What's all this stuff on my design?

By Barb Yost

Looking at a design I see a lot of information.

The first thing I notice are pictures.

The **Crown** view, A side view, a Pavilion view and an End view. These assist me in knowing the position of the facets, it shows how they will look as I am faceting.

The **Header** has the important information so I can determine if my stone and the design are compatible.

Name of the design and **who created it**. We should give honor to the person who created the design when we post pictures of our completed stone.

Next we see a **percentage of light return**. How much light will reflect when this stone is cut?

Angles for Refractive Index. Each stone has a unique ability to refract light. The angles will give you the best return. So when choosing a design we want to use this number to get the best brilliance ..light return. Quartz is 1.54 while Garnets are 1.73 There are charts available for R.I.

Number of facets. Includes the crown, pavilion and girdle

Symmetry Number of equal facets. 1 fold would be one image on each side of the design.

Index of design. This will determine what index gear to use on your machine to cut the design.

Now the **numbers**, first let's find out what the letters stand for.

L= Length

W= Width

T= Table

P= Pavilion

C=Crown

H= Height

Vol=Volume

Your stone will end up with the length and width as indicated on the design. This is helpful when choosing the size and shape of your stone. Is your rough the size and shape to cut this design?

Then the **cutting instructions**.

Cut and polish in numerical order. The P stands for Pavilion, G Girdle and C Crown and T Table

You will see your cutting angle such as 43.00 then the Index numbers to go around the stone like 15, 21, 27 etc.

Happy Faceting!

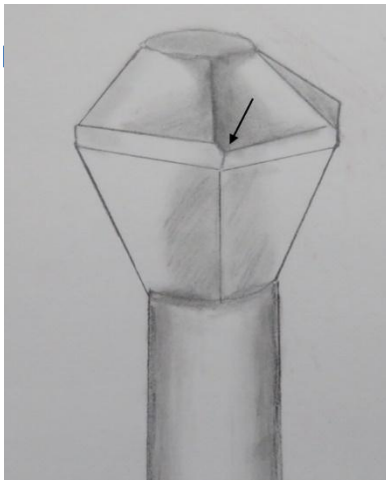
A Few Points for Faceting!

By Dr. Reg Williams

Cutting a Level Girdle

You know the routine—you faceted the pavilion with such accuracy—you put the dop in the transfer jig and now you are ready to cut the crown. The first cut for the crown is to set the girdle width. Around the index you go cutting each facet very precise, at least you think. By the time you get to the last facet it is not matching up with the first facet. You go around again paying close attention and it does it again. There were times when I was getting the girdle too thin trying to correct the problem. So essentially what I was getting was this stair-step girdle (see Figure 1).

Figure 1. Stair-step Girdle



So, the outcome is a very uneven girdle, which would add to the problem with the other facets in the crown. I happened across an article in the US Faceting Guild website and learned that a trick to correct this stair-step problem was to go halfway around the index in one direction and then halfway around in the opposite direction. Let us say we have 16 facets on the crown. Go from index 6 to index 48, then from index 96 to index 54.

6 – 12 – 18 – 24 – 30 – 36 – 42 – 48 – 54 – 60 – 66 – 72 – 78 – 84 – 90 – 96



This will greatly reduce the stair-step problem you encountered going all the way from 6 to 96 in one direction. With the transfer from the pavilion to the crown in the transfer jig is close, but not always perfect, which attributes to the problem of the uneven girdle. You likely will still need to use the index Vernier (cheater) to adjust for minor alignments from the transfer. This helps to have precise meet points in your crown facets.

Are Laps Flat?

You might have also noticed that when you bought that expensive diamond lap there seems to be high points and low points as the lap rotates on your machine. Laps are often tooled to make them as flat as possible, but they truly are not flat. There are two little tricks to help with this problem. First, get in the habit of lifting the quill off the lap always in the same place. My place is in the center aligned with the lap nut. That assures I am stopping in the same place. The second trick is to take a dopped stone and place it on the diamond lap at the



Figure 2. Lap with High Point Marked

angle you will make your cut. For example, set the angle at 43.00 degrees. Wet the lap and then lower the quill so the stone just touches at 43.00 degrees. Rotate the lap by hand to see if it goes higher or lower. Where it is at the highest, take a permanent marking pen and put a small line on the outer edge of the lap at that highest location (see Figure 2). That way when you want to make your cut to 43.00 degrees and you set the degree reading at the high point, your cut will be completed when the reading is at 43.00 degrees. This technique will greatly reduce overcutting or undercutting your facets.

Need Rough Gemstones?

You can buy rough gemstones on eBay and they look like real facet quality gemstones. Well, you get what you pay for, frequently not quality stones. There are honest gem dealers out there that will sell you facet quality gemstones, but at a hefty price. What is one to do? This is to alert you to Tree Town Treasures, 1719 Plymouth Road, Ann Arbor, MI 48105. David Vought, the owner, started faceting less than two-years ago and got so invested into faceting that he opened his own rock and mineral store. He has facet quality natural and created gemstones at a fair and reasonable price. His business has blossomed where he has cut or recut gemstones for local jewelers and customers. He has cut several sapphires lately. His website is www.treetowntreasures.com and his stores hours are Tuesday–Friday 12 to 7, Saturday 2 to 7, and Sunday 12 to 5. He has about anything you would want such as tourmaline, sapphires, aquamarine, peridot, and amethyst, to name a few.



Disclaimer: I hold no financial interest in David's business, but want to support his efforts to sell decent gem quality stones.

MAY ALL YOUR FACETS SPARKLE!

Dr. Reg

August Birthstone

August Augustine's yes there are three.

The **peridot** is a light green, ancient, cosmic birthstone that has been found in volcanic lava in Hawaii—and in meteorites that have fallen to Earth. The Egyptians called peridot the “gem of the Sun” and believed it had special healing powers.

R.I. 1.64 – 1.70. Mohs 6.5 – 7. Given for 15th wedding anniversary

Spinel is also an August birthstone. The name “spinel” comes from the Latin word spina, which means thorn, in reference to the shape of spinel crystals. This second August birthstone comes in a wealth of colors: intense red, vibrant pink, orange, purple, violet, blue and bluish green.

R.I. 1.712 – 1.720 Mohs 8 Given for 22nd wedding anniversary

Sardonyx The most ancient of the August birthstones, sardonyx, is a combination of two types of chalcedony (cryptocrystalline quartz): sard and onyx. Bands of brownish red to brown to dark orange sard alternate with typically white or black layers of onyx. In ancient times, sardonyx was a popular stone for Roman seals and signet rings, as hot wax would not stick to it. For millennia, the bands of color in this August birthstone have made it a popular carving material for cameos and intaglios.

R.I. 6.57 – 7.00. Mohs 1.53 – 1.54

September Birthstone

September's birthstone is Sapphire

Although sapphire typically refers to the rich blue gemstone variety of the mineral corundum, this royal gemstone occurs in a rainbow of hues. Sapphires come in every color except red, which earn the classification of rubies instead of Sapphire.

Sapphire gemstones symbolize loyalty, nobility, sincerity, and integrity. They are associated with focusing the mind, maintaining self-discipline, and channeling higher powers.

Sapphires are found in India, Myanmar, Thailand, Vietnam, Sri Lanka, China, Australia, Brazil, Africa, and North America (mainly Montana). Their origin can affect their value as much as color, cut, clarity, and carat size.

R.I. 1.76 – 1.78. Mohs 9

Midwest Gem & Mineral Shows:

(There is a calendar on our website.) <https://midwestfaceters.org/calendar-%26-gem-shows>



50th Golden Anniversary Show

Tulip City Gem & Mineral Club

September 13-15
Fri 10-8 • Sat 10-7 • Sun 11-5

Soccer Stop Sportsplex
5 River Hills Dr. Holland, MI 49424

Adults: \$3 • Children: Free
Students with ID: Free
Military & Scouts in Uniform: Free

Dealers • Fossils • Minerals • Exhibits
Jewelry • Gems • Rocks • Beads
Club Sales • Artisan Market • Sluice
Silent Auction • Kids' Games
Petoskey Stones • Demonstrators

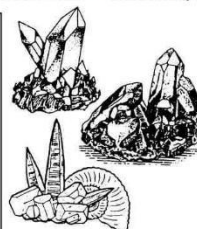
Central Michigan's 54th Annual Gem, Mineral, Fossil Lapidary & Jewelry Show

Friday, October 18, 2019 • 6:00 p.m. to 9:00 p.m.
Saturday, October 19, 2019 • 10:00 a.m. to 6:00 p.m.
Sunday, October 20, 2019 • 11:00 a.m. to 5:00 p.m.

"Main Arena" Ingham County Fairgrounds
700 E. Ash St. • Mason, MI

DEALERS

- Archy's Rock Shop
- Beauties of Creation
- BJ'S
- Earth Air Rock & Gem Shop
- Jacqueline
- M & W Minerals
- Nayab Gems & Minerals
- Peacock Rocks
- Red Metal Mineral Co.
- Russell's Trees & Treasures
- S & S Gold & Diamonds
- The Mineral House
- The Agate Lady



NEW FEATURE

"ASK US"

Specimen ID - Limit 3

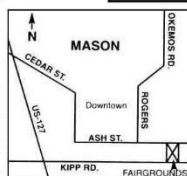
ACTIVITIES

- Club & Guest Displays
- Silent Auctions
- Hourly Door Prizes
- Fluorescent Booth
- Working Demonstrations
- Supervised Swap Table
- "Children's" Table
- Raffle
- Petoskey Stone Polishing
- "Touch & Feel" Table
- Refreshments
- Free Parking
- Much More

CASH ONLY

ADMISSION: Adults \$3.00 • Teens \$1.00
Children Under 12 - FREE with Paying Adult

Part of proceeds fund scholarship at MSU



Directions to Show:

FROM I-96 South on Okemos Rd.
To Mason, Left on Rogers St.
Left on Ash St.
FROM LANSING South on Cedar St.
To Mason, Left at 2nd Stoplight (Ash St.)
US-127 South to Kipp Rd. Exit,
Left (East) to South
Entrance to Fairgrounds



Sponsored by: CENTRAL MICHIGAN LAPIDARY AND MINERAL SOCIETY
Information: michrocks.org • esaslapidary@gmail.com

80180012

Officers & Committees:

Vice President, Virginia Steele,

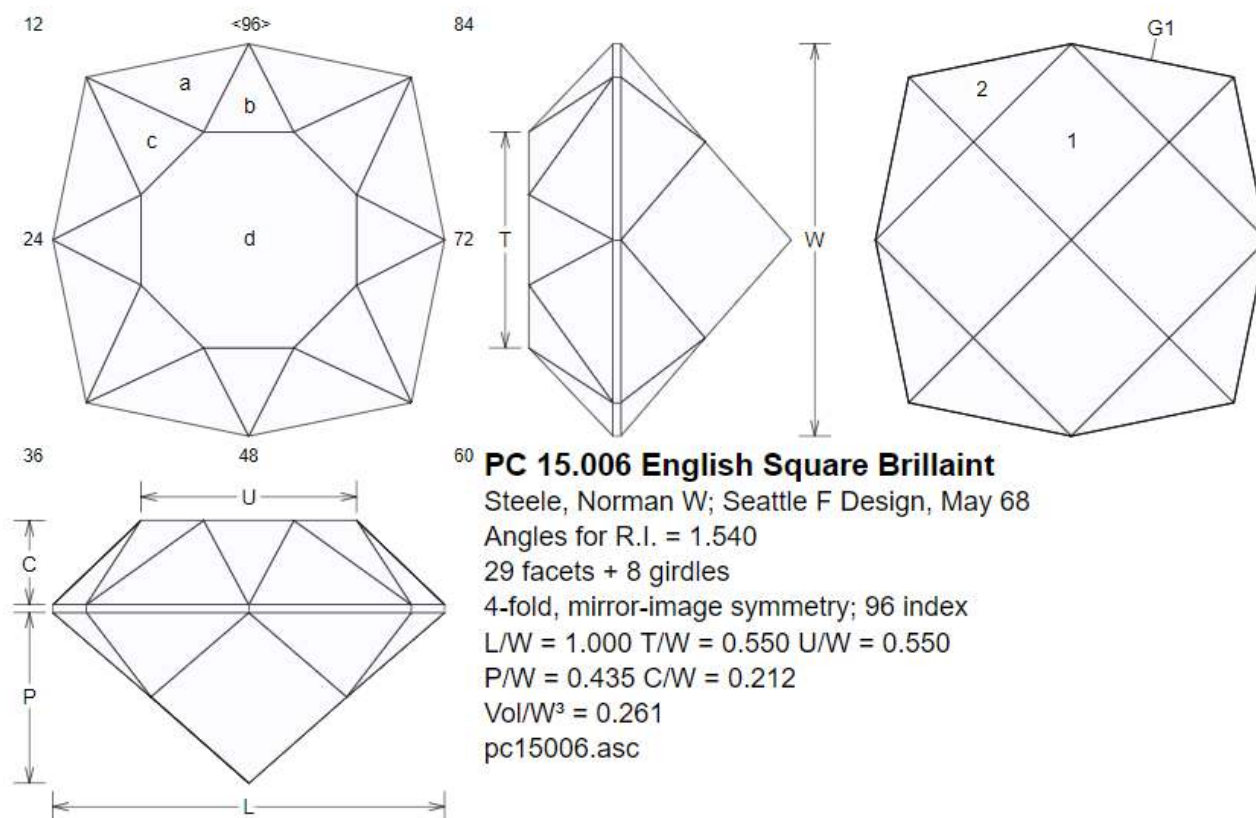
President, Blake Glupker, 616-914-4121, blakeglupker@aol.com

Secretary, Barb Yost, 616-254-9777, barbandben@gmail.com

Treasurer, Max Lautzenheiser, max.lautzenheiser@gmail.com

Directors: Max Lautzenheiser, Wally Frantz, Virginia Steele

Seminar Chair, Barb Yost; Membership Chair, Cristine Grimm; Historian, Virginia Steele; Raffle Chair, Blake Glupker; Newsletter Editor, Barb Yost with help from Cristine Grimm, Max Lautzenheiser, Dr. Reg Williams, & ???; Website & Social Media, Cristine Grimm



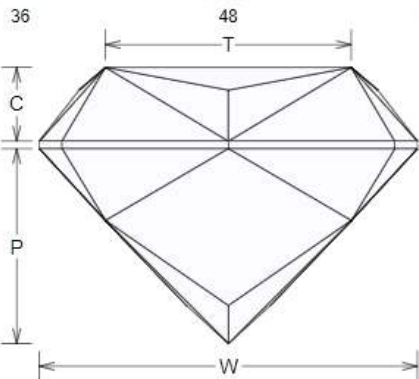
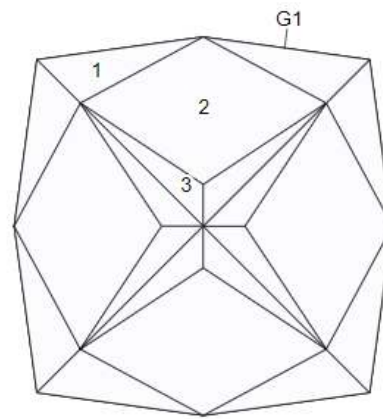
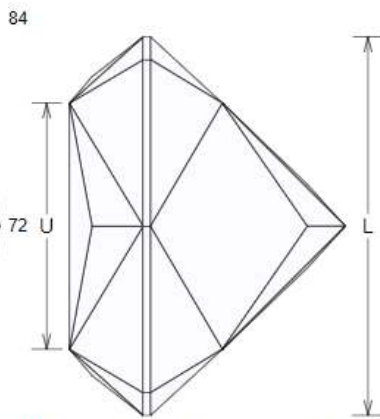
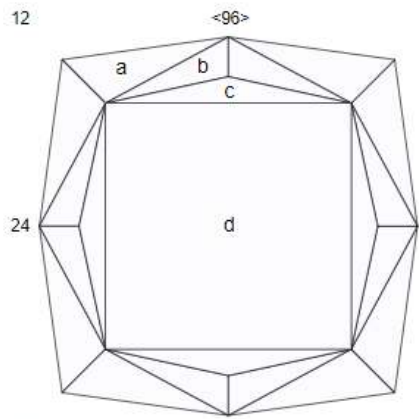
Crown

a	46.93°	03-21-27-45-51-69-75-93
b	43.34°	96-24-48-72
c	34.00°	12-36-60-84
d	0.00°	Table

[download pc15006.asc](#)

Pavilion

1	41.00°	96-24-48-72
2	47.89°	03-21-27-45-51-69-75-93
G1	90.00°	03-21-27-45-51-69-75-93



PC 15.004 Square Star 1

Steele, Norman W; Seattle F Design, Feb 68

Angles for R.I. = 1.540

41 facets + 8 girdles

4-fold, mirror-image symmetry; 96 index

L/W = 1.000 T/W = 0.653 U/W = 0.653

P/W = 0.516 C/W = 0.198

Vol/W³ = 0.319

pc15004.asc

Crown

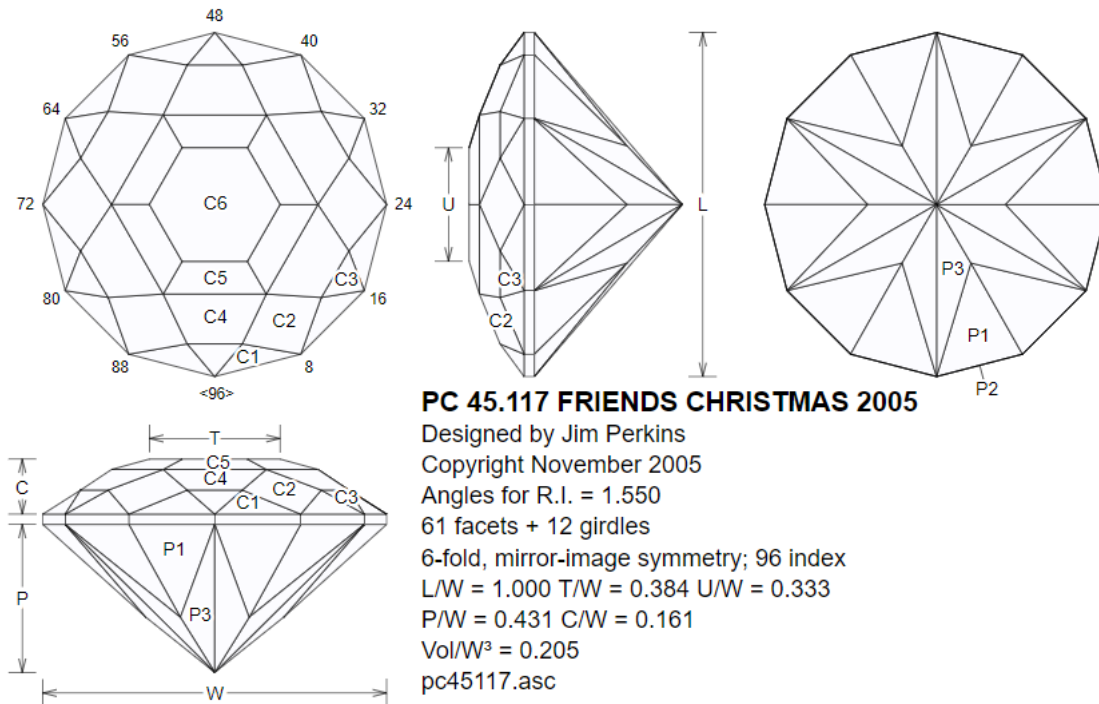
a	56.80°	02-22-26-46-50-70-74-94
b	52.50°	01-23-25-47-49-71-73-95
c	42.00°	96-24-48-72
d	0.00°	Table
G1	90.00°	02-22-26-46-50-70-74-94

Pavilion

1	55.00°	02-22-26-46-50-70-74-94
2	47.00°	96-24-48-72
3	42.00°	02-22-26-46-50-70-74-94

[download pc15004.asc](#)

For those of you thinking ahead to holiday gifts, here's a design from Jim Perkins, a talented and prolific gem designer, faceter, and former member of the guild. Enjoy!



Pavilion

P1 43.00° 04-12-20-28-36-44- CREATE A
 52-60-68-76-84-92 CENTER POINT.
 P2 90.00° 04-12-20-28-36-44- CUT TO SIZE &
 52-60-68-76-84-92 POLISH.
 P3 41.00° 02-14-18-30-34-46- PCP, GMP.
 50-62-66-78-82-94

Crown

C1 45.00° 04-12-20-28-36-44- SET GIRDLE
 52-60-68-76-84-92 HEIGHT, LEVEL
 GIRDLE.
 C3 37.00° 96-16-32-48-64-80 GMP
 C2 33.11° 08-24-40-56-72-88 GMP
 C4 22.00° 96-16-32-48-64-80 MP@ C1.
 C5 18.00° 96-16-32-48-64-80 MP@ C2.
 C6 0.00° Table CUT TO SIZE &
 POLISH.

[download pc45117.asc](#)

Downloaded from www.facetdiagrams.org

Find Us!

MidwestFaceters.org

Facebook.com/midwestfacetersguild

midwestfaceters@gmail.com

The Midwest Faceter's Guild was established in 1979 for the purpose of developing the art of faceting, to promote education and recreation through the exchange of information, to provide meetings for those with like interests and to encourage the achievements of individuals.

The Midwest Faceter's Guild is also a member of the Midwest Federation of Mineralogical and Geological Societies as well as the American Federation of Mineralogical and Geological Societies.

Midwest Faceter's Guild
c/o Silverfire Studios
41 Washington STE 277
Grand Haven, MI 49417

