



The Zodiac Killer

By:

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About the Author

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Mr. Farmer has conducted extensive travel abroad to over two dozen foreign countries, including some of the most dangerous areas of modern human conflict. His travels and experience in the global community have spanned multiple continents from Central America, Europe, Africa and the Middle East.

Prior to his graduate work, Mr. Farmer received an Honorable Discharge for his service in the United States Army as a "Sapper" explosives engineer with a focus in mobility and counter-mobility operations with infantry expeditionary elements in combat tours in Panama and Mogadishu, Somalia. In Panama he served with the 4th Bn 6th Infantry, 5th Infantry Division, Task Force Bayonet, during operation "Just Cause". In Somalia he served with the 41st Engineer Bn, Sapper element with the 10th Mountain Division, Light Infantry, during operation "Restore Hope". In Burkoyy, Somalia, Mr. Farmer served as the Joint Task Force Engineer Liaison and advisor for the world-renowned Bridge at Burkoyy mission which saved thousands of Somali lives in an emergency relief effort in coordination with the International Community of the Red Cross (ICRC).

Mr. Farmer is listed in Marquis Who'sWho in the World, and Marquis Who'sWho in America.

Mr. Farmer is a member of The Association For Intelligence Officers.

"When you have questions, OPORD Analytical may have the answers."

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Executive Summary

“By the way, are the police having a good time with the code? If not, tell them to cheer up; when they do crack it, they will have me.” – The Zodiac Killer, August 4th, 1969

The Zodiac Killer serial killer case is the most famous unsolved murder case in American history. It is a case that has seen voluminous amounts of information submitted by the killer to police and the newspapers, while at the same time drawing a list of suspects potentially as numerous as the tally of Zodiac victims.

My interest in the Zodiac Killer case began while attending Graduate School in 2004 at the University of New Haven. I was drawn to the case by the unsolved ciphers that the Zodiac Killer had mailed to police and newspapers, a challenge to authorities to solve the serial killer’s puzzles and other clues so as to detect the killer’s identity and hopefully his victim locations. I cracked the first unsolved Zodiac cipher, the “My Name is” cipher that same year.

In 2006 after starting my intelligence company, OPORD Analytical, I decided to go through all of the old work that I had completed on the Zodiac case and introduce it to the public through my company’s forums. I posted the solution to the “My Name is” Zodiac cipher to the internet in the hope that it would gather interest to the case. While attracting little official fanfare, the creation of the Zodiac Killer case section at my company website would soon become the spark that would lead OPORD Analytical to what I believe is the final resolution of this unsolved case.

Over a period of just four months, I began to compile information about the Zodiac Killer case, solve most of the Zodiac Killer’s ciphers and puzzles, and isolate a definitive suspect.

I believe this evidence trail leads, without question, to the Zodiac Killer. This report will detail the evidence. As you read this ground-breaking report, keep in mind that OPORD Analytical did not have access to the official police evidence of the Zodiac Killer case outside of the Freedom of Information Act files and other open-source sources found on the Internet.

This report relies heavily upon the fact that the Zodiac Killer had excellent map reading skills and a superior skill-set in cryptography. As you shall see in this report, the Zodiac Killer was very clever in creating his ciphers and other puzzles. A working knowledge of cryptography and map reading is required to fully benefit from the contents of this report.

The Zodiac Killer's "My Name is" Cipher

The Zodiac Killer's "My Name is" cipher was the very first cipher solution that I solved in regards to the Zodiac case. This cipher solution eventually became the key to solving the entire case. The cipher itself has a very small number of variables in total—only 13—and this fact prevented computers from solving it.

On April 20, 1970, the Zodiac Killer mailed the "My Name is" cipher with a bomb diagram to police. We will focus on the cipher first.

*This is the Zodiac speaking
By the way have you cracked
the last cipher I sent you?
My name is —*

A E N ⊕ ⊗ K ⊗ M ⊗ ∨ N A M



*I am mildly cerous as to how
much money you have on my
head now. I hope you do not
think that I was the one
who wiped out that blue
meannie with a bomb at the
cop station. Even though I talked
about killing school children with
one. It just wouldnt doo to
move in on someone elses territory.
But there is more glory in killing
a cop than a cid because a cop
can shoot back. I have killed
ten people to date. It would
have been a lot more except
that my bar bomb was a dud.
I was swamped out by the
rain we had a white bect.*

Figure #1

The Zodiac Killer gives the clue to solving this cipher with the serial killer's sentence:

"My name is —"

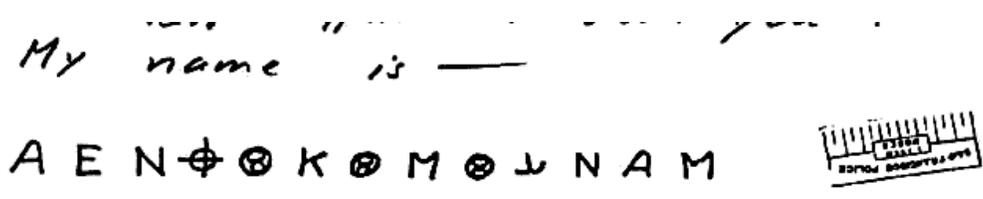


Figure #II

The answer to the serial killer’s question is: “My name is **Zodiac**”. That is the key to solving the “My Name is” cipher. To do this we need to apply the key “**Zodiac**” to the cipher text.

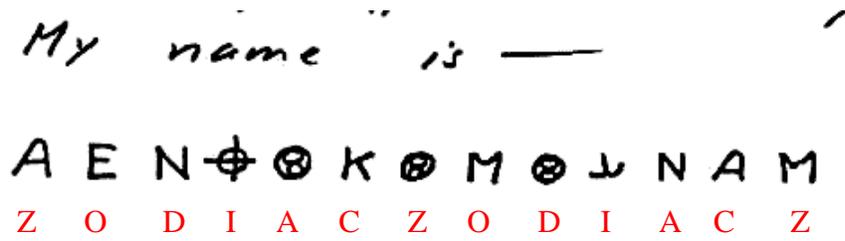


Figure #III

Now, taking the cipher letters and adding them to the key “**Zodiac**” one variable at a time gives:

$$A+Z, E+O, N+D, R+I, 8+A, K+C, 8+Z, M+O, 8+D, F+I, N+A, A+C, M+Z$$

Now all that is left is to apply Zodiac’s alphabet system that he used to encode the cipher. Zodiac used two English alphabets in sequence:

ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZ

To make it easy to understand, we will enumerate the alphabet sequence.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

Now to decode the Zodiac Killer’s “My Name is” cipher.

The first sequence is Z + A. This gives Z = 26, A = 1, so 26 + 1 = 27. Now using Zodiac’s alphabet of encoding, the 27th variable “A”.

See it? It is really easy.

The second sequence is O + E, which is 15 + 5 = 20. The letter at position 20 in the cipher table is “T”.

The third sequence is $D + N$, which is $4 + 14 = 18$. The letter at position 18 in the cipher table is “R”.

The fourth sequence is $I + R$, which is $9 + 18 = 27$. The letter at position 27 in the cipher table is “A”. ($26 + 1$)

The fifth sequence is $A + 8$. The Zodiac draws an 8 with a circle around it. This is proven because for the entire length of the cipher, the numeral 8 is used for that variable. So $A + 8 = 1 + 8 = 9$. The letter at position 9 in the cipher table is “I”.

The sixth sequence is $C + K$, which is $3 + 11 = 14$. The letter at position 14 in the cipher table is “N”.

The seventh sequence is $Z + 8$, which is $26 + 8 = 8$. The letter at position 8 in the cipher table is “H” but Zodiac uses the number 8 here which I will explain below.

The eighth sequence is $O + M$, which is $15 + 13 = 28$. The letter at position 28 in the cipher table is “B”. ($26 + 2$)

The ninth sequence is $D + 8$, which is $4 + 8 = 12$. The letter at position 12 in the cipher table is “L”.

The tenth sequence is $I + F$, which is $9 + 6 = 15$. The letter at position 15 in the cipher table is “O”.

The eleventh sequence is $A + N$, which is $1 + 14 = 15$. The letter at position 15 in the cipher table is “O”.

The twelfth sequence is $C + A$, which is $3 + 1 = 4$. The letter at position 4 in the cipher table is “D”.

The thirteenth sequence is $Z + M$, which is $26 + 13 = 39$. The letter at position 39 in the cipher table is “M”, but Zodiac uses a number here as well, the number 13 because $M = 13$ in the cipher table. ($26 + 13$)

The solution to the cipher thus reads: “**A Train 8 Blood 13**”.

After researching this solution in combination with the other Zodiac evidence that I derived in the case, the final solution to the “My Name is” cipher is:

A Blood Train HM (The 8th letter is H and the 13th letter is M)

This would be the first in a very lengthy evidence stream that I detected in the Zodiac Killer case, as deciphered from the Zodiac Killer’s own work.

Leona Roberts

After I had solved the Zodiac Killer's "My Name is" cipher, I sent the results of the work up through the proper channels so that law enforcement could benefit from the solution and maybe add something important to the Zodiac case.

In early 2007 as I reinvigorated the case within my company, my goal was to solve the ciphers, pass the work through proper channels, and then let law enforcement put the case together.

However, after researching the Zodiac Killer case more, I started to see a trend in northern California of unexplained deaths of young women. One such case was that of Leona Roberts, a native of Vallejo, California in 1969. Leona Roberts moved to Vallejo, California, with her mom from Wisconsin. Leona Roberts was attending beauty school when one day after a visit to her boyfriend's apartment she mysteriously disappeared. Witnesses nearby thought they had heard a young woman's scream from inside the apartment where Leona Roberts was kidnapped.

Days later, Leona Roberts' body would be found nude inside Bolinas Lagoon, just west of Tiburon, California. Police would find a High School ring on Leona's finger, a ring that did not belong to her. The High School ring was from Napa High School with a class year of "1963". Inside the ring were the initials "JAS". Leona's family had never seen the ring before and did not know where Leona could have acquired it. This led me to believe that the ring was a prop used by a serial killer.

Leona Robert's autopsy report left me with even more questions about the cause of her death. The Medical Examiner could not determine with 100% accuracy as to how she died. Reading through the report, I saw that the possible causes of death ranged from "asphyxiation due to drowning", to "possible poison" to "unknown viral infection."

It was clear to me that since Leona Roberts was living in Vallejo with her mom in 1969, and without many leads to go on, so many possible causes of death would allow an investigation into "murder" to be abandoned absent direct evidence. Further inside the autopsy report, the Medical Examiner explained that Leona Roberts had 1 cm bands around her wrists and ankles, indicating that she had been "bound." The Medical Examiner also removed a nylon material from one of Leona Roberts' wrists at the site where the binding took place.

The Leona Roberts death caught my attention for these reasons. I knew there was something more to the cause of her death. The placement of her body in Bolinas Lagoon, the fact that she had been bound and found nude, and the fact that she possibly was given a ring to wear after her death by a serial killer drew me into a full investigation of the Zodiac Killer case. The evidence allowed a just hypothesis that the unsolved murder case of Leona Roberts is related to the Zodiac Killer case.

The Zodiac Killer's "Button" Cipher

On June 26, 1970, the Zodiac Killer mailed his "Button" letter with a cipher and a segment from a 1969 version QQ code Phillips 66 map. The following map segment is the section from the primary map that the Zodiac Killer mailed in. The 1970 mailings by the Zodiac Killer proved to be an integrated combination of complex puzzles.

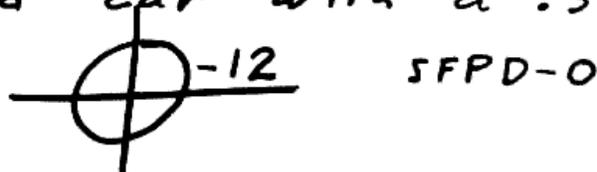


Figure #IV

The Zodiac Killer also included the following letter with the section of the Phillips 66 map.

This is the Zodiac speaking

I have become very upset with the people of San Fran Bay Area. They have not complied with my wishes for them to wear some nice Φ buttons. I promised to punish them if they did not comply, by anilating a full School Bass. But now school is out for the summer, so I panished them in an another way. I shot a man sitting in a parked car with a .38.

-12 SFPD-0

The Map coupled with this code will tell you where the bomb is set. You have until next Fall to dig it up. Φ

C Δ J I ■ O X J A M F ▲ Ω O R T G
X ○ F D V ζ ■ H C E L Φ P W Δ

Figure #V

First we are going to look at the letter. The letter gives important clues as to how to solve the puzzle.

This is the Zodiac speaking

I have become very upset with the people of San Fran Bay Area. They have not complied with my wishes for them to wear some nice Φ buttons. I promised to punish them if they did not comply, by anilating a full School Bass.

Figure #VI

The Zodiac is very angry that no one is wearing his buttons.

Buttons can be associated with many different types of functions, but one function stands out above all the rest—political campaigns. When a political candidate doesn't have very much exposure because the voters do not wear the politician's campaign buttons, the candidate doesn't do very well at the polls.

This is the Zodiac's first major clue for this particular puzzle.

Now for the second major clue:

I shot a man sitting in a parked car with a .38.
 Φ -12 SFPD-0

Figure #VII

The Zodiac is claiming that he shot a man sitting in a parked car with a .38 caliber weapon. The weapon that was used to kill cab driver Paul Stine was a 9 mm automatic, a different weapon than a .38 caliber weapon. This means that Zodiac is trying to clue us in on something here.

First, Zodiac talks about “buttons” and how important they are. Then Zodiac talks about a man being shot by a handgun and an individual in a car. In politics, two such

Once all the variables are equally distributed clockwise, the variables at the 6 O'clock position spell "JFK WROTE".

What has President John F. Kennedy written? He wrote a book called "Profile in Courage" in 1955 which won the Pulitzer Prize for Literature in 1957. President Kennedy is also best known for being the Commander of PT-109, the famous PT boat during World War Two. But President John F. Kennedy is also famously known for another written item which turned out to be one of the most famous speeches in US history.

C Δ J I ■ O X J A M ♯ ▲ Ω O R T G
 A S K N O T W H A T Y O U R C O U
 X O F D V ζ ■ H C E L ⊕ P W Δ
 N T R Y C A N D O F O R Y O U

Figure #XI

In the Zodiac button letter above, the Zodiac underlines one word in particular as another clue and proof of the solution:

They have not complied

Figure #XII

ASK NOT WHAT YOUR COUNTRY CAN DO FOR YOU;
 ASK WHAT YOU CAN DO FOR YOUR COUNTRY.

The word "not" is the only non-duplicate word in the sentence. After further research in the Zodiac Killer case evidence, I have determined that the final solution of this particular cipher was:

Book Repository

The Book Repository at Dealy Plaza is where Lee Harvey Oswald fired the rifle shots that assassinated President John F. Kennedy. A Book Repository is also another descriptor for a "library".

The Zodiac Killer uses duplicate wording in future codes that the killer publishes. When the duplicate letters from the keywords are cancelled out, the "important" message appears—the solution to the puzzle. As this report progresses, readers will see the mathematical clues left in the ciphers and puzzles created by the Zodiac Killer and how each puzzle has the same intellectual signature as all the rest.

The "book repository" solution becomes evident as the Zodiac suspect that I have identified later in this report himself worked as a career "librarian".

The Zodiac Killer's Halloween Card

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
- ❖ The Zodiac Killer's "Button" cipher: **Library**
- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**

On October 27, 1970 the Zodiac Killer mailed in his Halloween card to taunt police and terrify the public. The card has two sections, a front side and back side.

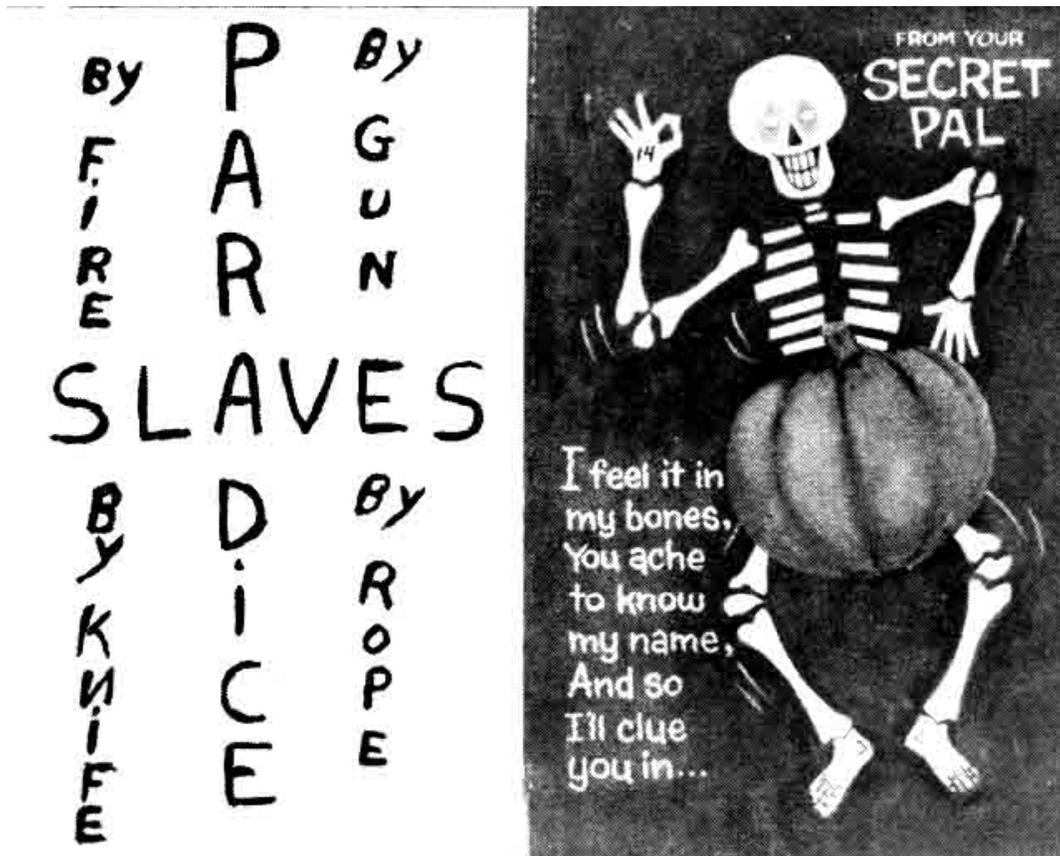


Figure #XIII

Front



Figure #XIV

[Back](#)

The Halloween card that Zodiac mailed in to police gives really good clues. Let's examine them. The first clue on the front of the card is the word "paradice". Using the Zodiac's Phillips 66 map, the complete and unaltered map, there is a "Paradise Drive" in Tiburon, California.

P
A
R
A
D
I
C
E

Figure #XV

On the back of the Zodiac's Halloween card, there are images of eyes in the left column of the card in the same location as the word "paradise" on the front of the card. Using a scan of the QQ code Phillips 66 map that the Zodiac used which was printed in 1969, the evidence becomes crystal clear as to the clue that the Zodiac gives to police. The left side of the Phillips 66 map has one remarkable feature:

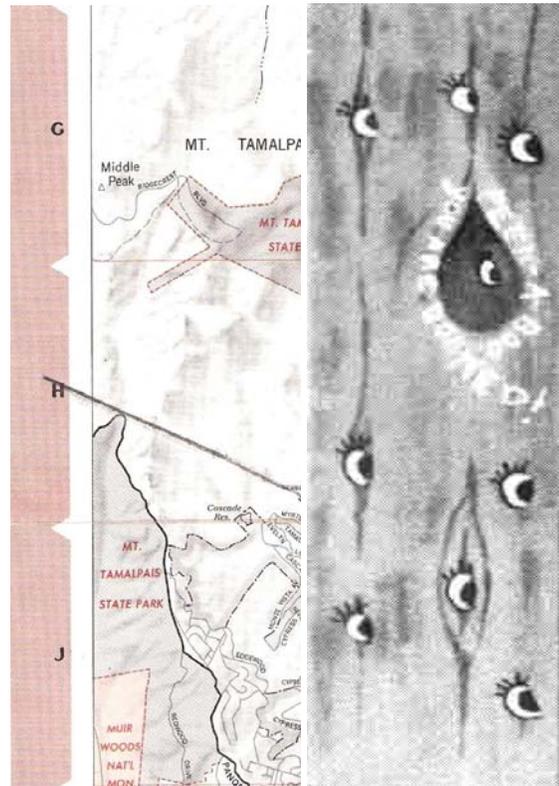


Figure #XVI

The original Phillips 66 map that the Zodiac used doesn't have an "I" in its left-hand column on the map. It has an A thru H, and then a J thru Q! This is a clue by the Zodiac to use the Phillips 66 map with the information that he submitted to the police and the newspapers in association with the Halloween card clue using the "eyes" (I).

Even more spectacular is this:

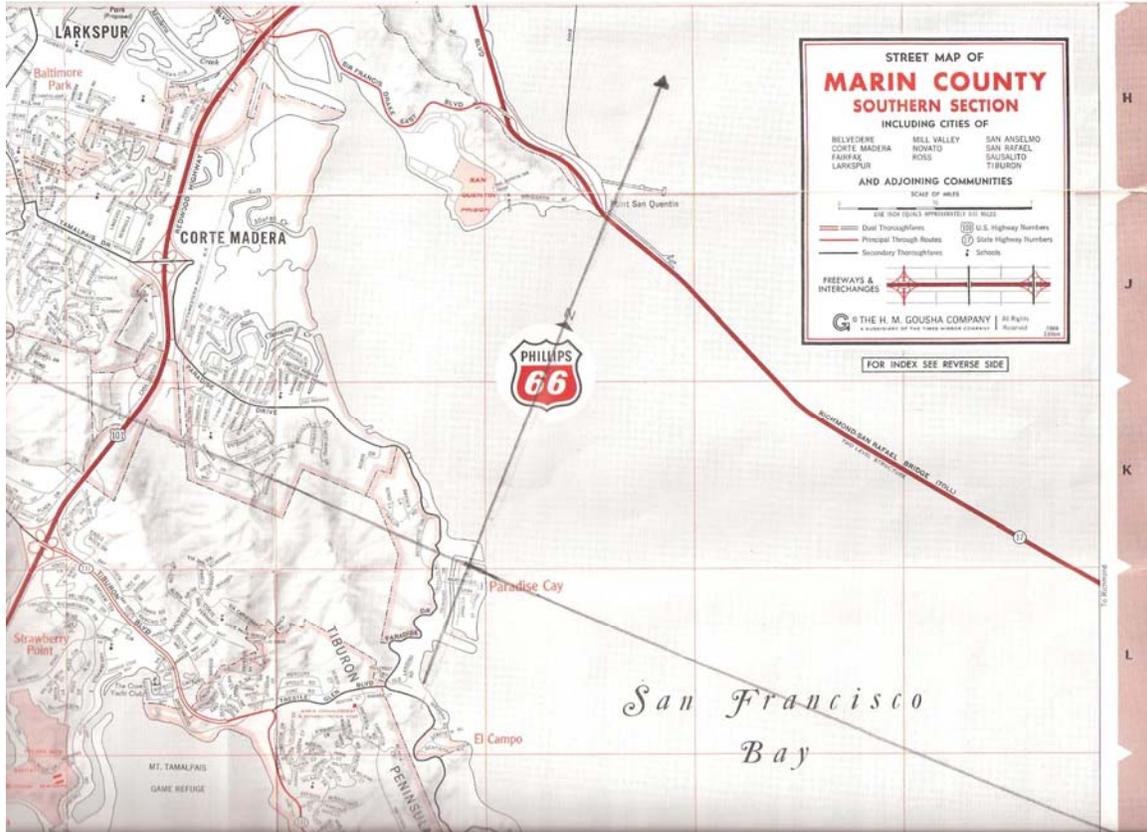


Figure #XVII

I ran an azimuth from the “H” in the left column center of mass to the “M” in the right column of the Phillips 66 map. Remember that the solution to the “My Name is” cipher was “A Blood Train HM”? The H + M were used by the Zodiac as map coordinates.

I then ran an azimuth from magnetic north on the Phillips 66 map to get a resection anchor point. That 10 digit grid coordinate falls perfectly with “Paradise Cay”, a small docking point in Tiburon for boats. You can see how the magnetic north azimuth for the map goes straight through the Phillips 66 trademark on the azimuth. This was the clue that the Zodiac gave on the front of the Halloween card with the word “paradise”. The complex azimuths that the Zodiac created here are indicative of prior military experience.

Let's review the back of the Halloween card again.



Figure #XVIII

The skeleton in the Halloween card has both his hands raised as if he is hanging from an invisible line. The skeleton's feet are waving to the left (the skeleton's left) as if being pushed by the wind like a sail. The skeleton itself is really a two-dimensional image placed over the top of what was written by the Zodiac on the Halloween card. This is an important clue.

Using scissors, I removed the skeleton from a copy of the Halloween card and then applied the skeleton to the Phillips 66 map using the grid coordinates that the Zodiac provided police with his "H" and "M" clue from the "My Name Is" cipher solution.

This is what appeared:

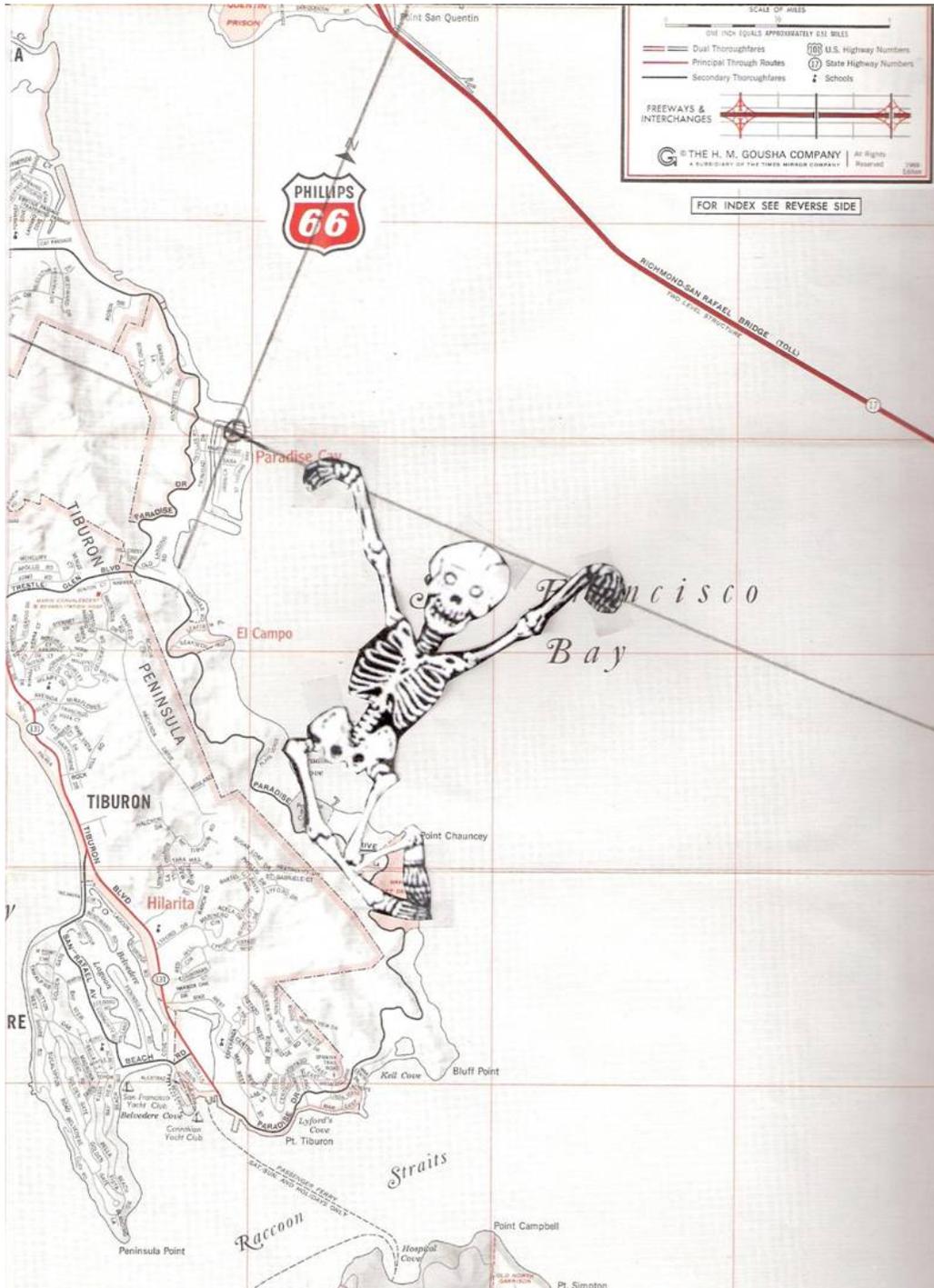
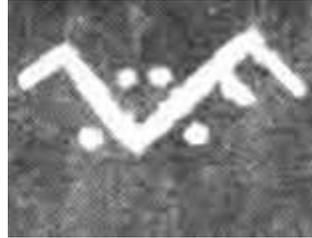


Figure #XIX

Now, from the X axis “0” point, the skeleton is shifted to the right 1.2 miles, using the Phillips 66 map legend. Why? The Zodiac tells us to with the clue on the Halloween card indicating wind direction.



 = 8-12 knots (9-14 mph)

 = 13-17 knots (15-20 mph)

Figure #XX

Now, using the wind equations we get:

15 – 20 mph

- 9 – 14 mph

= 6 – 6 mph (Phillips 66 map clue)

= **6 mph**

The answer to the Zodiac’s wind equation puzzle is 6 mph to the southeast on the X axis. This would move the skeleton approximately 1.2 miles to the southeast along the X axis which would put the sine in the skeleton’s feet (the triangular symbol) directly center of mass of the Naval Net Depot on the map at 3141 to 3150 Paradise Drive, Tiburon, California. On the card itself, the skeleton’s left hand is resting on webbing. This is another clue that the Zodiac’s final designed destination for the skeleton was the Naval Net Depot and the **Tiburon Library**. The webbing is important because it is a clue to the Tiburon Navy Net Depot which stored anti-submarine naval nets to guard San Francisco Bay.

The Zodiac appears to be giving clues to some important feature in the 3100 + block of Paradise Drive in Tiburon. The Zodiac used the Halloween card and his other mailings in 1969-1970 as a puzzle to the serial killer’s own identity. Even more importantly, this proves that the “My Name Is” cipher, the “Button Letter” cipher, and the Halloween card were all produced by the same individual and sent in to the police and the newspapers because they are entwined using the Zodiac’s puzzles. It is simply stunning that the “My Name Is” cipher gives the clues H + M which form a perfect X axis in Tiburon through Paradise Cay as the “0” point on the X axis.

The Zodiac Killer's ID

Cumulative evidence and cipher solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
- ❖ The Zodiac Killer's "Button" cipher: **Library**
- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**
- ❖ The Zodiac Killer's Halloween Card: Tiburon **Library** Location on Paradise Drive, in Tiburon, California.

The Zodiac Killer's ID has proved to be the one elusive component of the Zodiac investigation that has eluded law enforcement for almost 40 years. The Zodiac Killer told us:

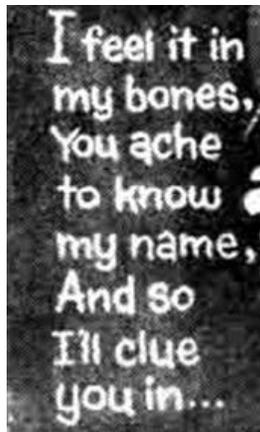


Figure #XXI

The Zodiac Killer is telling us to "**look at his bones**" for his identification. The Zodiac's Halloween card provided clues which led to the old Navy Net Depot in Tiburon, California. The Halloween card also gives the Zodiac's ID, not in a suspect's initials, but a cryptographic ID that appears again in another source by the suspect that will follow later in this report.



Figure #XXII

The two-dimensional image of the skeleton on the Halloween card that the Zodiac Killer created covers the words "spoil" and "game". The words that remain are "oil" and "me".

Now, let's go back to the solution derived from the "My Name Is" cipher and the clues left on the Halloween card that gave us the Tiburon, California X and Y axis where the skeleton was positioned using the Zodiac's Phillips 66 QQ Code 1969 version map.

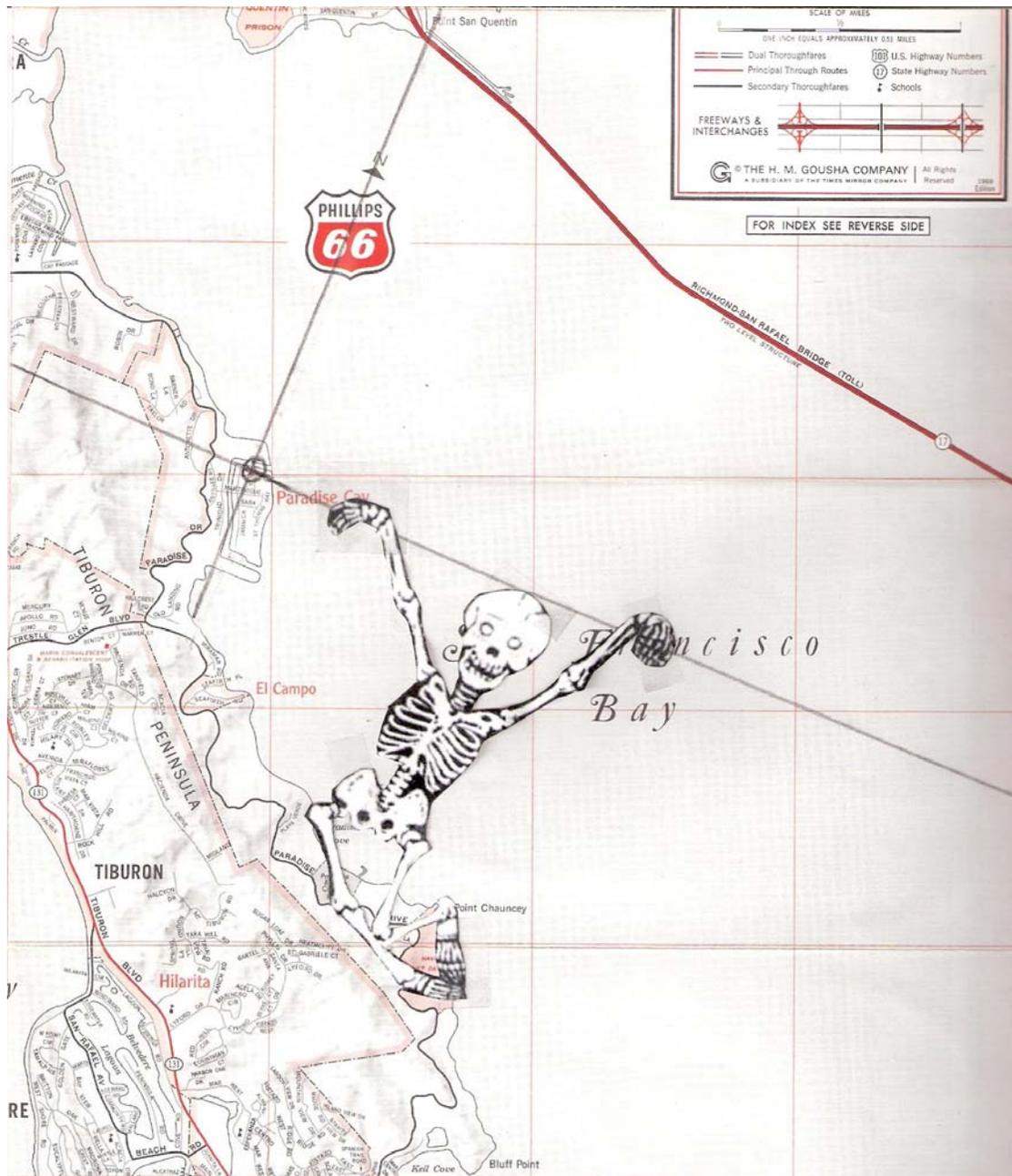


Figure #XXIII

The Skeleton's left hand (skeleton's left) sits over the "FRAN" variables in the Zodiac Killer's Phillips 66 map. The remaining letters are "CISCO".

So the skeleton clue with "oil" + "cisco" gives us "Crisco". Crisco Oil was and still is one of the most popular cooking oils in the United States.

The letter missing from "CRISCO" = **R**.

That is one letter of the killer's identification.

The second letter is derived from the image of the skeleton itself.

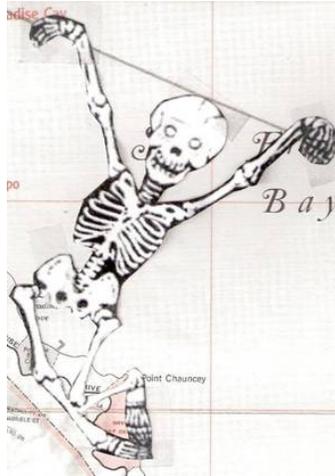


Figure #XXIV

The image of the skeleton mirrors the image that the Zodiac used in his ciphers as a backwards "J".

The Zodiac Killer's last identifying letter in his initials can be found using the front of the Halloween card.



Figure #XXV

All of the Zodiac's mailings to police and the newspapers in 1970 were puzzles that entwined together to lead to the old Navy Net Depot/Tiburon Library along "Paradise" Drive. Since "Paradise" Drive was the objective of the Zodiac's ciphers and Halloween card mailed in a series of mailings in 1970, removing "Paradise" from the Halloween card gives us the last letter of the Zodiac Killer's initials, with "slaves" replacing Paradise as the anchor.

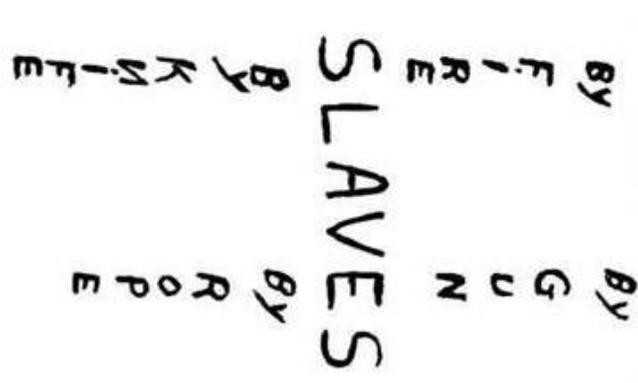


Figure #XXVI

The Zodiac Killer's cryptography identification, the direct clue that I have confirmed leads to his very identity, is: **RJI**

Later in this report I will detail how the Leona Roberts case and the "RJI" solution to the Zodiac Killer's Halloween card match, linking the Leona Roberts case to the Zodiac. As we continue with this report, keep in mind that the Zodiac uses three variable codes on the work that he submitted to police. This is a trend in cryptography that is detectable when the crypto has one lone author.

The Earring

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
- ❖ The Zodiac Killer's "Button" cipher: **Library**
- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**
- ❖ The Zodiac Killer's Halloween Card: Tiburon **Library** Location on Paradise Drive, in Tiburon, California.
- ❖ The Zodiac Killer's cryptography ID: **RJI**



Figure #XXVII

The Skeleton covers the map as a two-dimensional image, just as it appears on the Zodiac Killer's Halloween card. Notice how the skeleton has one "earring."

Did the Zodiac Killer's victims have one earring as a serial killer prop in their right ear?

The "Z" Identifier

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
- ❖ The Zodiac Killer's "Button" cipher: **Library**
- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**
- ❖ The Zodiac Killer's Halloween Card: Tiburon **Library** Location on Paradise Drive, in Tiburon, California.
- ❖ The Zodiac Killer's cryptography ID: **RJI**
- ❖ The Earring: Did the Zodiac victims have an earring prop placed in their **right ear** by the serial killer?

Remember the Zodiac Killer's "My Name is" cipher? In that cipher he had circled 8's. Just like an 8-ball in a pool game.

A E N ⊕ ⊗ K ⊗ M ⊕ ↓ N A M



Figure #XXVIII

When you play pool, the balls are placed in a rack in the following sequence:

1,9,2,3,8,10,11,4,12,5,6,13,14,7,15

The ring found on Leona Roberts' dead body had a year of 1963 on it. The police have this ring in their evidence storage.

Take the pool rack ball sequence out to 4 positions. The 5th position is the "8" ball.

So, that gives us:

1,9,2,3 = 1923.

The year on the Napa High School ring found on Leona Roberts' dead body was:

1963.

Now, take 1963 and subtract it by 1923:

1963

1923

40

Then subtract 40 from the alphabet and that gives:

$$40-26=14=N$$

The triangle sine is over the Navy Net Depot and the Tiburon Library. That is the "rack".

The rack then equals the Zodiac Killer's location. Look at the skeleton's feet. When you put the "N" inside the triangle sine and then make the skeleton's feet the "1" ball position, you get:

Z

"I shall torture my slaves by making them play pool with twisted cues." – Zodiac

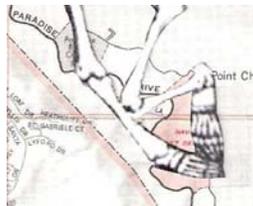


Figure #XXIX

This is one of the evidence streams that absolutely links Leona Roberts to the Zodiac Killer. This solution also confirms that the sine placement was the location to the Zodiac Killer himself.

The Zodiac Killer's Dragon Card

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
- ❖ The Zodiac Killer's "Button" cipher: **Library**
- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**
- ❖ The Zodiac Killer's Halloween Card: Tiburon **Library** Location on Paradise Drive, in Tiburon, California.
- ❖ The Zodiac Killer's cryptography ID: **RJI**
- ❖ The Earring: Did the Zodiac victims have an earring prop placed in their **right ear** by the serial killer?
- ❖ The "Z" Identifier: The Zodiac Killer's **Physical Location**



Figure #XXX

The Zodiac Killer's Dragon card is a direct reference to Don Quixote. Don Quixote is a fictional story about a Spaniard who is trapped inside his library. While trapped inside his library with nothing else to do, Don Quixote begins to read books, not just a small amount of books, but a library full of books.

Over time, Don Quixote becomes addicted to reading books, so addicted that he begins not to sleep and eat anymore and he begins to hallucinate. As his hallucinations grow stronger, he becomes insane from being in the library, not sleeping and eating, and reading so many books.

But then something happens which allows him to leave his library. Don Quixote has a delusion that he is supposed to become an errant knight, and when he leaves the library after so long he gathers up his sidekick Sanchez and his mule and then decides to go out into the Spanish countryside in search of adventure.

While Don Quixote is away, folks back at his residence take all of his books and burn them and then blame their burning on someone else. The reason they burn all of his books is so that he won't go back into his library to trap himself inside there again.

By the end of the story, Don Quixote becomes satisfied that he has accomplished what he was supposed to as an errant knight, returns to sanity again and retires in obscurity.

Don Quixote was a **librarian** in the fictional story.

The Zodiac's Dragon card then is a clue that the Zodiac believes that he is Don Quixote, an errant knight. The Dragon card gives another important clue about the Zodiac suspect's very identity, and that will follow in this report.

The Suspect

"When they do crack it, they will have me." – The Zodiac

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
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- ❖ The Zodiac Killer's Dragon Card: **Librarian**

For over 37 years, the Zodiac Killer has escaped prosecution from law enforcement due to a combination of factors. The work that I did with the Zodiac Killer's ciphers and map integration gave me clues about the Zodiac Killer's intellect and psychological construct. The Zodiac would more than likely be a white male, college educated with a military service background. He would also be psychotic but able to hide it from co-workers and family, if he were married. The Zodiac would be influenced in his early years by events that would affect his early socialization with women. He would have a tendency to marry multiple times and divorce quickly, moving from one spouse to the next in search of a form of perfection that could not be realistically achieved in the modern state—a Victorian personality.

When the Zodiac Killer's map coordinates and integrated two-dimensional skeleton image were detected in the work that I did on the case, I knew that I was dealing with a killer that had a possible genius level intellect and a methodical, patient planner. The "My Name is" cipher which gave the grid variables for the Phillips 66 map in **HM**, combined with the Zodiac's integration of that puzzle with his Halloween card, was a stunning revelation. It meant that the Zodiac Killer created these puzzles in advance, possibly over a period of months, if not years, and then very patiently mailed them to police and the newspapers over a period of months, if not longer. The Zodiac Killer included just enough information in his puzzles to carry the investigator over into the next sequence—he did not give it all away in one mailing. This proves how cunning and dangerous the Zodiac Killer is, and why the women that the killer targeted were no match for his devices. The fact that the Zodiac Killer has to this day avoided capture is a testament to how dangerous and intelligent this hunter is.

When investigating cases like the Zodiac Killer case, it is important to stick to the evidence derived from what the serial killer provided publicly to the police and the newspapers. The longer that a case such as this goes unsolved, the more theories about the case are heaped upon older theories to eventually create a zone of silence away from the truth. I only used the evidence provided by the killer himself and challenged myself to a match of intellects with the suspect in the process.

When the sine location appeared over the old Navy Net Depot area after solving the Zodiac's ciphers and Halloween card clues, I admittedly began to think that perhaps the Zodiac was a former sailor at the depot. It made sense because of the sine location, the fact that the Zodiac demonstrated map reading and land navigation skills, and had extensive experience with cryptography and coding systems.

But the more that I thought about the integration of the puzzles and ciphers, the use of the Phillips QQ code 1969 version map, the patience that the killer had when deciding to mail in the next piece of information to police and newspapers, and the fact that the Zodiac referred to so many intellectual works in both written and other media forms, I began to suspect that the Zodiac was highly educated, a veteran, and employed in some type of university or higher education setting.

I had a lot of information to work with—especially a location—Tiburon, California, at the old Navy Net Depot. A quick search using Google and Google Earth gave me the exact addresses used for that facility. Once armed with the addresses, I inserted them into Google with the Zodiac Killer case parameter and within seconds and in stunned disbelief a suspect emerged.

This suspect is known as **Gareth Penn**, a former librarian at the Tiburon Navy Net Depot area. Gareth Penn came out of the shadows in the early 1980s when he claimed that he had developed a “radian theory” for the Zodiac case and he released that information to the public. Penn was in fact the first serious Zodiac sleuth to be recognized by the media because of the nature of the information that he was providing to the public about the Zodiac. In 1986, Penn “penned” a book called “Times 17”, a critical analysis of the Zodiac Killer in mathematical terms.

What was simply amazing about that to me was the fact that I was the first person to solve the vast bulk of the Zodiac's unsolved puzzles and ciphers. When I looked at the codes I saw an intellectual signature with the work that the Zodiac was doing, a higher intellect. To explain it another way, when a pistol is fired from a revolver, the bullet has a very unique ballistics signature that no other weapon of the same caliber can replicate. The Zodiac Killer's puzzles are like that—they are intellectually unique. Many of the puzzles that I have solved and have yet to cover in this report deal with alphanumeric sequences of three variables—an intellectual trait that Gareth Penn himself replicates in other works.

As a scholar I am trained to follow the evidence. I gave a cursory glance to other Zodiac suspects such as Arthur Leigh Allen, and even believed that Allen was the Zodiac Killer before I solved the next series of Zodiac puzzles that led me to Tiburon. The evidence stream that I developed that was provided by the Zodiac Killer himself was in no way possible for a man such as Allen to develop. After researching Leona Roberts' case and her autopsy information, I realized that I had an obligation to see the case through to the end. If Penn was the Zodiac Killer it would require someone with the professional training and intellect to unravel the puzzles that the Zodiac Killer had created and used to

keep the police at bay for so long. To these ends, I dedicated myself to researching Gareth Penn's background. It turns out he wrote many articles for publication in newspapers, The Economist, and the organization known as Mensa.

Mensa is discussed in depth in the following pages.

Mensa

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
- ❖ The Zodiac Killer's "Button" cipher: **Library**
- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**
- ❖ The Zodiac Killer's Halloween Card: Tiburon **Library** Location on Paradise Drive, in Tiburon, California.
- ❖ The Zodiac Killer's cryptography ID: **RJI**
- ❖ The Earring: Did the Zodiac victims have an earring prop placed in their **right ear** by the serial killer?
- ❖ The "Z" Identifier: The Zodiac Killer's **Physical Location**
- ❖ The Zodiac Killer's Dragon Card: **Librarian**
- ❖ The Suspect: **Gareth Penn—Librarian**

The Zodiac Killer was unlike all other publicly identifiable serial killers in US history because he not only killed victims to benefit his mathematical precision, but he sent information to the police and the newspapers that were highly advanced puzzles as clues to his identity and objectives. When studying the Zodiac Killer's materials that he submitted, over time you can see where the killer was concerned that no one was solving his puzzles. He began to insert clues into the cipher work and cards that he made by hand that would allow for the integration of previous puzzles into the macro solutions that he created.

There were only a few Zodiac puzzles ever solved publicly until now, so this trend in the Zodiac's work is noticeable and predictable. Given that the puzzles the Zodiac created for police are very complex, the serial killer had no way of knowing which puzzles were solved and which ones remained unsolved. The ultimate solutions to the Zodiac Killer's puzzles were so brazen as to point to a physical location along Paradise Drive in Tiburon, California. This tells me that the Zodiac Killer was confident that no one could solve his puzzles and his identity would remain a secret no matter how much information he released at the skill level he did to police and the newspapers. In fact, the general public has had access to a lot of the Zodiac Killer's work for decades and still it remained unsolved.

I am of the opinion that this fact troubled the Zodiac Killer and he wanted to take it a step further to prove himself to be the most clever and cunning serial killer of all time. Since no one could solve his puzzles within all law enforcement agencies in those days, and since the Zodiac Killer's work appeared in newspapers and other media to distribute such work very widely, it is clear that the Zodiac Killer was trying to reach the widest audience possible in the hopes that someone could be located to solve the killer's puzzles.

There is one group of individuals in the United States and internationally that claims to have a superior intellect in regard to its membership rolls. That group is known as Mensa. Individuals that join Mensa are such that they come from all walks of life. The only requirement to join such an organization, as I have researched, is to take an IQ test and if the test score is high enough then you can become a member. It is that simple. So if a

serial killer wanted to see if he were the smartest person on the planet, to see if he could outwit the top minds of the entire international community, sending work into Mensa would be the way to prove it. Since Mensa has a media publication which encourages submissions by its members known as “The Ecphorizer”, an individual wishing to test the geniuses of western civilization would only need to submit an article for publication to do so. If the article were published, the new “puzzle”, the new “test” would be out there and the smartest people on the planet would read it. This would also allow an individual to avoid having to send work to crypto sections in the FBI, the NSA, Naval Intelligence, NASA and other cryptology-specific employment centers where the mission focus is on such work.

Now, if the Zodiac Killer reached the apex of narcissism and believed that he was “crack-proof” in regards to his cipher work that he mailed to the police, he may consider that the audience that received his work was not the right one. The Zodiac Killer’s ego was probably inflated tremendously because his ciphers remained unsolved for so long, but there was yet another challenge for the individual who believed that he was smarter than everyone else. That challenge would be to the membership of Mensa itself.

When I first identified the Zodiac Killer’s sine location over the Tiburon Library and Navy Net Depot and then learned that Gareth Penn was employed there, I started to research Penn’s other written works. In “The Ecphorizer”, I found 33 of Gareth Penn’s articles to Mensa that he submitted for publication.

Within Penn’s articles were the Zodiac Killer’s new and unanswered cipher challenges to the international Mensa membership community, unanswered that is until now.

Catbird Seat

“...Cincinnati is a linguistic Black Hole...” – Gareth Penn

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer’s “My Name is” cipher: **A Blood Train HM**
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- ❖ The “Z” Identifier: The Zodiac Killer’s **Physical Location**
- ❖ The Zodiac Killer’s Dragon Card: **Librarian**
- ❖ The Suspect: **Gareth Penn—Librarian**
- ❖ Mensa: **Gareth Penn**

Gareth Penn wrote an article for “The Ecphorizer”, titled, “Catbird Seat”.

Source: http://www.ecphorizer.com/EPS/site_page.php?page=355&issue=27

This would be the Zodiac Killer’s first cipher test since his 1969-1970 mailings directed specifically to the international Mensa audience.

“CatBird Seat” with the clue: “...Cincinnati is a linguistic Black Hole...”

Keyword is “**Cincinnati**”.

Cincinnati (removing all duplicate letters) = AT

AT

The next keyword is: “Garfield Shaeffer”

Solution: Gild She

Combining the solutions for “Cincinnati” and “Garfield Shaeffer” solutions gives: Gild She At, **linguistically** (as Penn gives the clue) sounded out means:

KILLED GIRL AT “Catbird Seat”

The Zodiac Killer’s “CatBird Seat” was at 3141 Paradise Drive in the Tiburon Bird Sanctuary overlooking Bolinas Lagoon, the same lagoon where Leona Roberts was found dead.

11.0010010000 11111101101

"I'm satisfied that I know who the Zodiac is and why he did what he did." – Gareth Penn

Cumulative Evidence and Cipher Solutions

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- ❖ The Suspect: **Gareth Penn—Librarian**
- ❖ Mensa: **Gareth Penn**
- ❖ CatBird Seat: **Killed Girl At "CatBird Seat"**

Gareth Penn wrote an article for "The Ecphorizer", titled, "11.0010010000 11111101101". Source: http://www.ecphorizer.com/EPS/site_page.php?page=101&issue=12

The binary puzzles in this article are:

110010010000 = **E**

11111101101 = **Y**

110011001010 = **I** (Penn's binary AKA in the article description)

Penn derived the first two binary puzzle solutions by converting Pi (3.14) into binary. When Pi is converted into binary, it equals the article title:

11.001001000011111101101

The final solution to the puzzle is derived this way:

EYI = EYE

"I" minus the missing "E" in the word "EYE" (I – E) = 4

Taking Pi out to its fourth variable position gives us: **3.141**

The final solution is **3141**, which is the address to the Old Navy Net Depot on Paradise Drive in Tiburon, California, the same location that the Zodiac Killer placed his skeleton's sine directly over the top of his location.

Arthur, Shmarthur

"Want a liberal education? Parse and memorize Virgil's Georgics." – Gareth Penn

Cumulative Evidence and Cipher Solutions

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- ❖ The Zodiac Killer's "Button" cipher: **Library**
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- ❖ The Suspect: **Gareth Penn—Librarian**
- ❖ Mensa: **Gareth Penn**
- ❖ CatBird Seat: **Killed Girl At "CatBird Seat"**
- ❖ 11.0010010000 11111101101: **3141** Paradise Drive, Tiburon, California

Gareth Penn wrote an article for "The Ecphorizer", titled, "Arthur, Shmarthur".

Source: http://www.ecphorizer.com/EPS/site_page.php?page=401&issue=30

To solve this puzzle we will remove "Arthur" from "Shmarther":

Arthur Shmarthur

SHM

In the article, Penn then talks about an organization called the "Society for Creative Anachronism". He provides the acronym for this organization as "SCA".

Adding the following letter sequences together numerically gives:

SCA

SHM

KLN

This is a standard IQ puzzle where the sequence of "KLN" is missing the letter "M".

The solution is: M = **13** for **13th victim**.

The next puzzle solution is the most important one for this article.

Virgil's Georgics

Removing duplicate letters gives:

VLO

Then we will add VLO to SHM (the title solved):

VLO

SHM

OTB

B2

The Zodiac Killer mailed in a front segment of the Phillips 66 QQ code version map to police with the “Button” letter and cipher. Using this map segment and applying the solution for the B2 grid, we get:

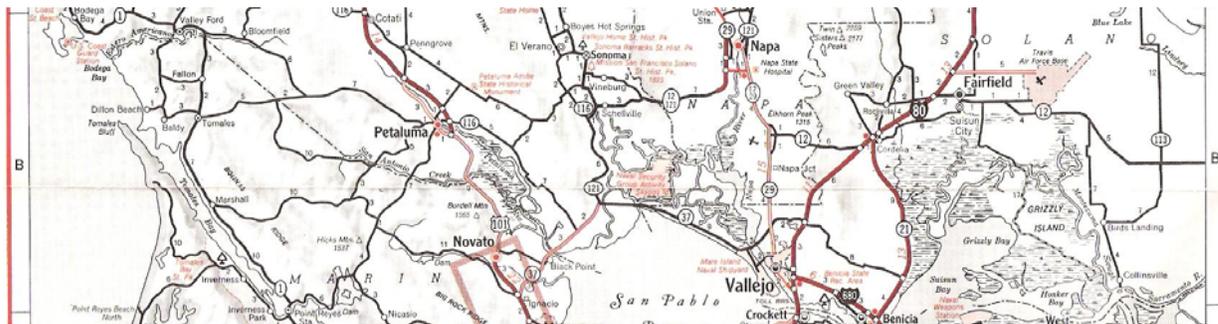


Figure #XXXI

Draw an X axis horizontal line through Napa from left to right across this map segment. West of Napa on exactly the same axis is:

Penngrove

The skeleton sine in Tiburon that the Zodiac Killer created as a puzzle is on the same horizontal axis where Leona Roberts’ dead body was found west of Tiburon in Bolinas Lagoon. On Leona Roberts’ dead body a ring was found from Napa High School, graduation year, 1963. Since Leona Roberts was 16 years old at the time of her death in 1969, it was clear this ring did not belong to her. The Napa clue on the High School ring, combined with Leona Roberts’ corpse location match the Napa to Penngrove horizontal axis.

Where Were You?

"Why on earth would anyone want to shoot Clark Kerr?" – Gareth Penn

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
- ❖ The Zodiac Killer's "Button" cipher: **Library**
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- ❖ The Suspect: **Gareth Penn—Librarian**
- ❖ Mensa: **Gareth Penn**
- ❖ CatBird Seat: **Killed Girl At "CatBird Seat"**
- ❖ 11.0010010000 11111101101: **3141** Paradise Drive, Tiburon, California
- ❖ Arthur, Shmarthur: **13th Victim** and **Penngrove**

Gareth Penn wrote an article for "The Ecphorizer", titled, "Where Were You?"

Source: http://www.ecphorizer.com/EPS/site_page.php?page=642&issue=41

Penn's article, "Where Were You?" is about the assassination of President John F. Kennedy. This is along the same overall theme that the Zodiac Killer himself produced in the "Button Letter" and cipher that the serial killer mailed to police.

Again, following the same decoding sequence with this article that was used with Penn's other articles we take the title and eliminate duplicate variables:

Where Were You

Solves to:

HYOU

Now taking "HYOU" and sounding it linguistically gives us: "H + U" or HU.

HU is the acronym for the nation-state of **Hungary**. This is a very important clue that will be further explained in the forthcoming pages.

Now, in reference to Penn's replacement of President Kennedy with an alias known as "Clark Kerr", we derive the following solution:

Clark Kerr solves to:

CLAE = **CLAY** (linguistically).

So when Penn asks, “Why would anyone want to shoot Clark Kerr? (President John F. Kennedy)”, the puzzle solution is **CLAY** (sport of “clay shooting”).

This solution may also be directed at the Zodiac Killer’s victims themselves, the killer seeing them as merely “clay shooting” and was one consideration for possible motive.

Remember that the solution to the “Button” cipher is: “Book repository used in the JFK assassination”, which means **library**. Penn wrote “Where Were You” to tie in the library clue with the motive clue. Now, using Penn’s first clue with the Zodiac Killer’s bomb diagram that the killer mailed in with the Button cipher gives insight into another part of the motive.

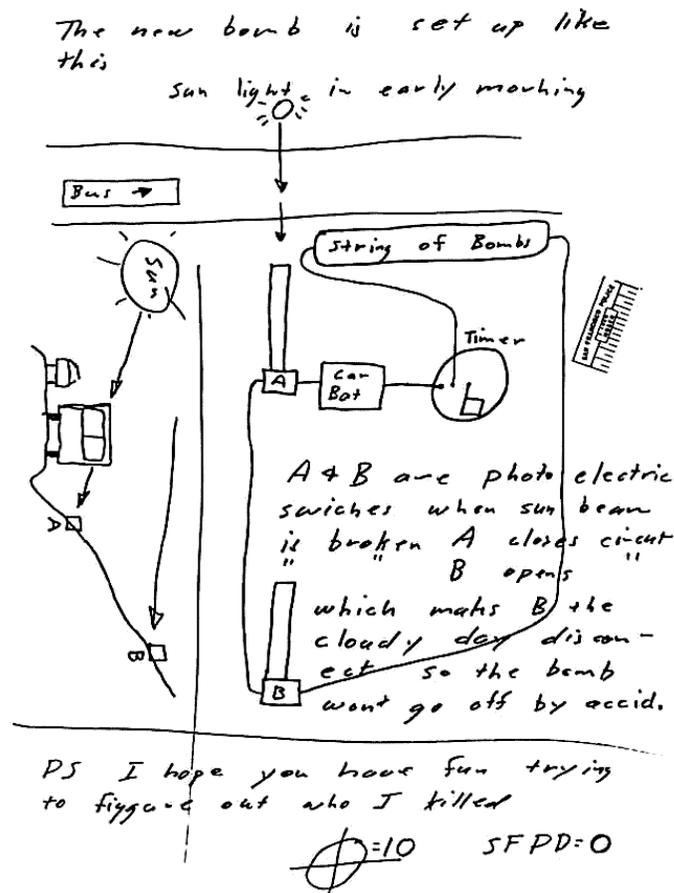


Figure #XXXII

The drawing above was mailed by the Zodiac Killer to be a bomb diagram that the serial killer was supposed to use to bomb civilian passenger motor vehicles and commercial buses. That was not what the Zodiac did because the serial killer never bombed anything and demonstrated no evidence that he knew how to construct and deploy bombs.

The diagram instead is to a very specific location.



Figure #XXXIII

This facility is orientated to the east, just as the Zodiac Killer's bomb diagram instructs with, "Sun light in early morning." The Zodiac Killer drew a very precise representation of this facility.

To clarify:

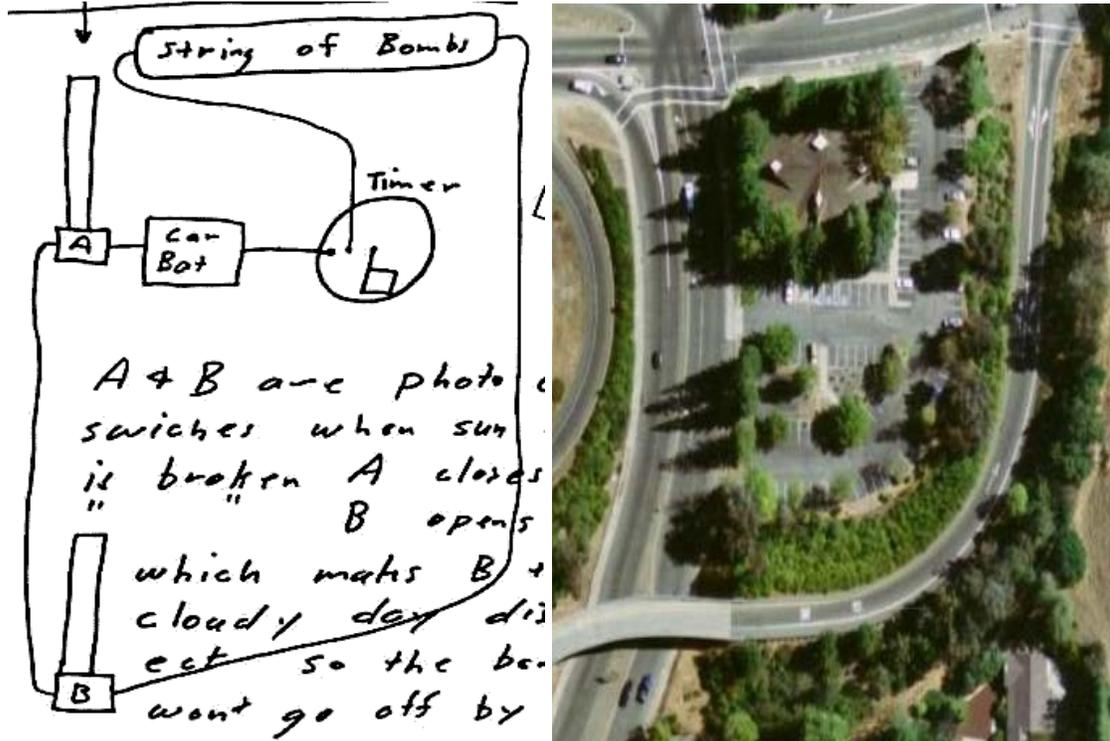


Figure #XXXIV

The Zodiac Killer was drawing a representation of the “Mountain Jacks” restaurant located near Mt. Diablo CT in Lafayette in the late 1960s, early 1970s timeframe. The Mountain Jacks restaurant is on the same X axis as Mount Diablo to the east. “Jacks” in playing cards refers to “knights”.

This means that Gareth Penn knew the location of the Zodiac’s bomb diagram drawing, knew what the facility was used for, and even published an article in the Mensa journal “The Ecphorizer” to give clues about this location with the solution “Hungary” = **HUNGRY**. This location, to the Zodiac Killer, is where “hungry knights” ate their meals, or perhaps eyed some of the killer’s victims.

I further opine that Gareth Penn was talking about motive for the selection of the Zodiac’s victims when the solutions are combined:

HUNGRY JACKS (KNIGHTS) CLAY SHOOTING

Were any of the Zodiac victims offered something to eat by the Zodiac Killer, or did they have partially undigested food in their systems at autopsy? How did Gareth Penn know that the Zodiac Killer was referring to the “Mountain Jacks” restaurant in Lafayette, as well as the assassination of President John F. Kennedy in the Zodiac’s “Button” cipher solution?

Remarkably, in the same article, Penn uses the phrase “DoD-funded study of the Military Mentality”.

Military Mentality broken down by duplicate variables gives:

IRTEN = IR (TEN = J)

RJI

The letters **RJI** were encoded in the Zodiac Killer’s Halloween card and that solution was derived from the serial killer’s use of the Phillips 66 QQ code 1969 version map. Later in this report, I will show how the RJI code used with Leona Roberts’ name matches that of the serial killer himself.

This article by Gareth Penn is pretty nefarious because while it asks the reader where they were while President John F. Kennedy was being assassinated, Penn’s coded message in this article makes clear that he was a:

HUNGRY KNIGHT CLAY SHOOTING

Gone With The 25¢ Potroast

"A memorial is a thing that preserves a memory." – Gareth Penn

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
- ❖ The Zodiac Killer's "Button" cipher: **Library**
- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**
- ❖ The Zodiac Killer's Halloween Card: Tiburon **Library** Location on Paradise Drive, in Tiburon, California.
- ❖ The Zodiac Killer's cryptography ID: **RJI**
- ❖ The Earring: Did the Zodiac victims have an earring prop placed in their **right ear** by the serial killer?
- ❖ The "Z" Identifier: The Zodiac Killer's **Physical Location**
- ❖ The Zodiac Killer's Dragon Card: **Librarian**
- ❖ The Suspect: **Gareth Penn—Librarian**
- ❖ Mensa: **Gareth Penn**
- ❖ CatBird Seat: **Killed Girl At "CatBird Seat"**
- ❖ 11.0010010000 1111101101: **3141** Paradise Drive, Tiburon, California
- ❖ Arthur, Shmarthur: **13th Victim** and **Penngrove**
- ❖ Where Were You?: **Hungry Knight Clay Shooting** and **RJI**

Gareth Penn wrote an article for "The Ecphorizer", titled, "Gone With The 25¢ Potroast"

Source: http://www.ecphorizer.com/EPS/site_page.php?page=229&issue=18

Gone with the 25(cent) Potroast

Eliminating duplicate letters gives:

WIE (25 =Y) S

WIEYS

WIEYS = W/IEYS where W = 23

23 EYES

Also in the same article is another keyword: Grant Mahoney

Grant Mahoney broken down against the article title gives:

MY

Final solution: A **Memorial** to **My 23 Eyes**

Did the Zodiac Killer remove eyes from the victims or draw pictures of eyes on the victim's bodies or in other locations? We know that the serial killer drew eyes on the Halloween card. Were the "eyes" referenced by the killer in any other way?

Gareth Penn writes this article about a memorial. Are the victim's eyes a "memorial" to the serial killer?

Only the official police record, the investigative officers, and the Zodiac Killer can answer these questions.

Te Moriarty Salutamus

“The authorities are finally stumbling after the real Zodiac murderer.” – Gareth Penn

Cumulative Evidence and Cipher Solutions

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- ❖ Arthur, Shmarthur: **13th Victim** and **Penngrove**
- ❖ Where Were You?: **Hungry Knight Clay Shooting** and **RJI**
- ❖ Gone With The 25(cent) Potroast: A **Memorial** to **My 23 Eyes**.

Gareth Penn wrote an article for “The Ecphorizer”, titled, “Te Moriarty Salutamus”

Source: http://www.ecphorizer.com/EPS/site_page.php?page=371&issue=28

“Te Moriarty Salutamus”, however, is not the correct Latin interpretation. The correct interpretation of the phrase is “Morituri te Salutamus”. This phrase means: “We Who Are About To Die, Salute You!”

To solve this next puzzle, we will take the article title and compare it to the correct Latin phrase.

Te Moriarty Salutamus

Morituri te Salutamus

Once all of the duplicate letters are removed, it solves to:

AY
UI

Then Penn gives two more clues in the article. The first is where he underlines the following binary sequence:

1100111

1100111 = **G** in binary

Then he talks about "Mr. X"

X is the key variable on that clue.

That gives us:

AY
UI
GX

Added by vertical columns gives:

$$A + U + G = AUG$$

$$Y + I + X = 25 + 9 + 23 = 57 = 26 \times 2 + 5 = E (5).$$

The final solution is:

We Who Are About To Die, Salute You! August 5

On August 4, 1969, the Zodiac Killer mailed this statement to the police:

This is the Zodiac speaking.

In answer to your asking for more details about the good times I have had in Vallejo, I shall be very happy to supply even more material. By the way, are the police having a good time with the code? If not, tell them to cheer up; when they do crack it, they will have me.

On the 4th of July I did not open the car door. The window was rolled down all ready. The boy was origionaly sitting in the front seat when I began fireing. When I fired the first shot at his head, he leaped backwards at the same time, thus spoiling my aim. He ended up on the back seat then the floor in back thashing out very violently with his legs; that's how I shot him in the knee. I did not leave the cene of the killing with squealing tires + raceing engine as described in the Vallejo paper. I drove away quite slowly so as not to draw attention to my car. The man who told police that my car was brown was a negro about 40-45 rather shabby dressed. I was in this phone booth having some fun with the Vallejo cop when he was walking by. When I hung the phone up the damn thing began to ring & that drew his attention to me + my car.

Last Christmass In that epasode the police were wondering how I could shoot + hit my victims in the dark. They did not openly state this, but implied this by saying it was a well lit night + I could see silowets on the horizon. Bullshit that area is srouded by high hills + trees. What I did was tape a small pencil flash light to the barrel of my gun. If you notice, in the center of the beam of light if you aim it at a wall or ceiling you will see a black or darck spot in the center of the circle of light about 3 to 6 inches across. When taped to a gun barrel, the bullet will strike in the center of the black dot in the light. All I had to do was spray them as if it was a water hose; there was no need to use the gun sights. I was not happy to see that I did not get front page coverage.

Figure #XXXV

The Leona Roberts Connection

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
- ❖ The Zodiac Killer's "Button" cipher: **Library**
- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**
- ❖ The Zodiac Killer's Halloween Card: Tiburon **Library** Location on Paradise Drive, in Tiburon, California.
- ❖ The Zodiac Killer's cryptography ID: **RJI**
- ❖ The Earring: Did the Zodiac victims have an earring prop placed in their **right ear** by the serial killer?
- ❖ The "Z" Identifier: The Zodiac Killer's **Physical Location**
- ❖ The Zodiac Killer's Dragon Card: **Librarian**
- ❖ The Suspect: **Gareth Penn—Librarian**
- ❖ Mensa: **Gareth Penn**
- ❖ CatBird Seat: **Killed Girl At "CatBird Seat"**
- ❖ 11.0010010000 11111101101: **3141 Paradise Drive, Tiburon, California**
- ❖ Arthur, Shmarthur: **13th Victim** and **Penngrove**
- ❖ Where Were You?: **Hungry Knight Clay Shooting** and **RJI**
- ❖ Gone With The 25(cent) Potroast: A **Memorial to My 23 Eyes**.
- ❖ Te Moriarty Salutamus: **We Who Are About To Die, Salute You!** – "**August 5**"

Gareth Penn claimed that Michael O'Hare was the Zodiac Killer. Robert Hunter was also suspected to be the Zodiac Killer. What is important here is to understand that these individuals were not selected as suspects because of their actual viability as real Zodiac suspects, but to add clues to the puzzle base of the Zodiac's own work!

Michael O'Hare: The "hare" clue, the "rabbit hole", Pi, infinity. Pi in math is an equation that continues to infinity, as the rabbit hole in Alice in Wonderland was also an infinite hole. Penn referred to this when he wrote that Cincinnati is a linguistic black hole, or a hole so deep that the Zodiac Killer's victim's voices couldn't be heard.

Robert Hunter: Zodiac was a "hunter", with reference to the Mountain Jacks restaurant and "clay shooting"—a hungry knight out clay shooting.

I am of the opinion then that Gareth Penn selected these individuals to advance his own Zodiac work of art, namely the victim's names, locations, ciphers and other Zodiac puzzles.

The Zodiac Killer used 3 letter variables in most of his puzzles as I have proven in this report. Perhaps the most remarkable puzzle of them all is how the Zodiac Killer integrated Leona Roberts' name into the serial killer's puzzle schema.

Based upon the evidence, Leona Roberts was stalked by the Zodiac Killer. He did not pick her out by random. He knew her somehow and more importantly, he knew her name. That is why the Zodiac Killer went to her boyfriend's house to kidnap her. He followed her there. Why? The Zodiac Killer needed her very **name** for a puzzle that could be solved to identify him.

To solve this puzzle we need a three variable code off the Zodiac Killer's "Dripping Pen" card submission that the serial killer made to police.

This is the Zodiac speaking,
 I thought you would need a
 good laugh before you
 hear the bad news and I
 you won't get the news for a while yet
 news for a while yet
 PS could you print this new cipher in your front page?
 I get awfully lonely when I am ignored,
 so lonely I could do my thing!!!!!!

Can't do a thing with it!

⊕

Des July Aug
 Sept Oct = 7

Figure #XXXVI

The code is located near the months that the Zodiac Killer added to the card:

Des

Figure #XXXVII

This important code is: **DEG**

With this code, we can solve the connection between Leona Roberts and the Zodiac Killer.

Removing the duplicate variables in [Leona Roberts](#) solves to:

LNA BTS

Adding those variables together alphanumerically gives:

LNA

BTS

NHT = N(14) TH = 14TH

Leona Roberts was possibly the Zodiac Killer's 14th victim.

But more importantly:

LNA (Leona Roberts first name solved)

BTS (Leona Roberts last name solved)

JAS (Initials found inside the ring on her dead body)

MXI = MX "I" (eye)

Then:

DEG (Code off the Zodiac's Dripping Pen card)

JAS (Initials found inside the ring on Leona Roberts)

RJI (Zodiac's Phillips 66 map ID code)

GSP (Gareth Penn's initials)

MYI = MY "I" (eye)

The solution then is $MXI + MYI = (M+M=Z) XY \text{ "eyes"} = \text{ZODIAC XY EYES}$

Notice how the RJI variables are integrated here as well. This appears to be the XY Axis clue for the Phillips 66 map to the Zodiac Killer's location in Tiburon! When plotting grid coordinates on a map it requires a horizontal "X" axis and a vertical "Y" axis. The Phillips 66 map, as I explained in a previous section of this report, was missing the "I" grid reference because the map manufacturer did not include it on the map. The Zodiac Killer is giving the important clue to not only focus on an X and Y axis for a map puzzle, but to look specifically for an "I" grid. Since the I grid doesn't exist on the map, and is instead sequenced H,J, this was a clue to use the H grid as well as a clue to solving the "My Name is" cipher which provided the "H" and "M" grid reference in the solution.

The John Q. Public Cipher

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer’s “My Name is” cipher: **A Blood Train HM**
- ❖ The Zodiac Killer’s “Button” cipher: **Library**
- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**
- ❖ The Zodiac Killer’s Halloween Card: Tiburon **Library** Location on Paradise Drive, in Tiburon, California.
- ❖ The Zodiac Killer’s cryptography ID: **RJI**
- ❖ The Earring: Did the Zodiac victims have an earring prop placed in their **right ear** by the serial killer?
- ❖ The “Z” Identifier: The Zodiac Killer’s **Physical Location**
- ❖ The Zodiac Killer’s Dragon Card: **Librarian**
- ❖ The Suspect: **Gareth Penn—Librarian**
- ❖ Mensa: **Gareth Penn**
- ❖ CatBird Seat: **Killed Girl At “CatBird Seat”**
- ❖ 11.0010010000 11111101101: **3141** Paradise Drive, Tiburon, California
- ❖ Arthur, Shmarthur: **13th Victim** and **Penngrove**
- ❖ Where Were You?: **Hungry Knight Clay Shooting** and **RJI**
- ❖ Gone With The 25(cent) Potroast: A **Memorial** to **My 23 Eyes**.
- ❖ Te Moriarty Salutamus: **We Who Are About To Die, Salute You!** – **“August 5”**
- ❖ The Leona Roberts Connection: **Zodiac XY EYES**

Using the Phillips 66 QQ code version 1969 map that the Zodiac Killer mailed a segment of to police, I decoded a puzzle from another section of the map that the Zodiac provided as another identification clue.

To solve this puzzle first required going back to the “My Name Is” cipher text that the Zodiac created.

*This is the Zodiac speaking
By the way have you cracked
the last cipher I sent you?
My name is —*

A E N ⊕ ⊗ K ⊗ M ⊗ ↓ N A M



Figure #XXXVIII

A member of my company’s forum noticed a pattern in the variable sequence of the cipher. Notice that in the cipher variables there are three circles with numeric 8’s inside them. So when you count the variable numbers between what the Zodiac has circled and inserted his 8’s in the cipher text, we get:

4 8 1 8 1 8 4

If you don't see how we got that numeric sequence, all that we did was count the variables in total before each circled "8" that the Zodiac provided in the cipher. He wrote four variables then a circled "8", then one variable and another circled "8", then one variable and another circled "8", and then four more variables. This was another cipher that the Zodiac had inserted into the "My Name Is" cipher. But the Zodiac Killer was very smart and protected this next sequence by inserting the final three variable sequences in the actual solution to the "My Name Is" cipher that I cracked.

That solution again was: "A BLOOD TRAIN HM", where the additional H and M variables have numeric alphabet values of "8" and "13" respectively. So without cracking the actual "My Name Is" cipher, the solution to this next cipher would not reveal itself, especially since it needed another key in order to solve it.

What you are about to see proves that the Zodiac Killer was very intelligent when he created this cipher sequence. This is a layered cipher, and you will see why law enforcement had such great difficulty trying to capture the Zodiac Killer.

The next step was to add the "813" from the two remaining variables of the "My Name Is" cipher, to the 4818184 and that gave me:

8 1 3 4 8 1 8 1 8 4

I now had 10 variables that the Zodiac Killer provided with the cipher, the three from solving the cipher with the key "ZODIAC" to derive the "A BLOOD Train HM" solution and the external sequence of 4818184.

I then scanned the cover of the Zodiac Killer's Phillips 66 QQ code series 1969 version map and that gave me:

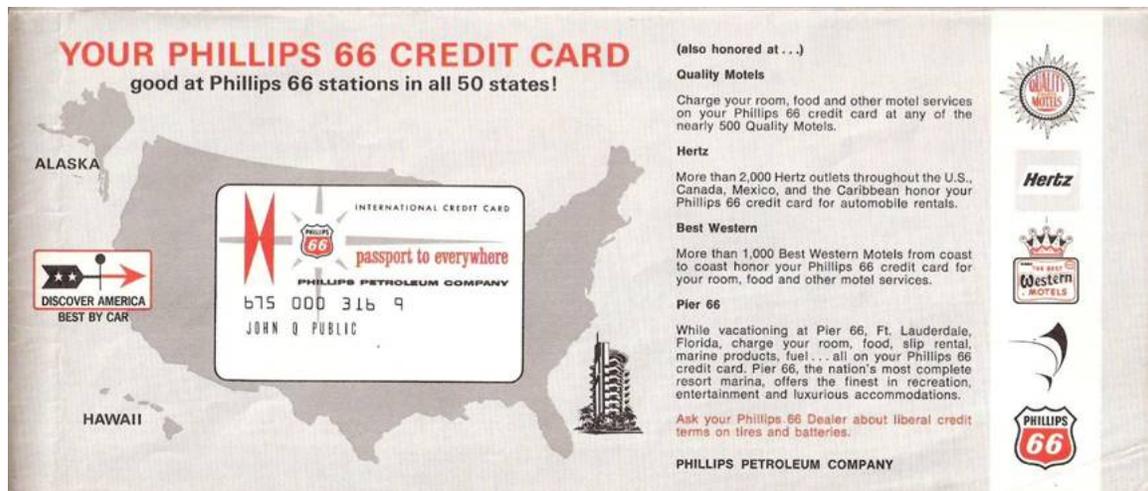


Figure #XXXIX

This is the same map that the Zodiac Killer used to mail in to police with his “Button” cipher which I solved.

Now, to solve this next cipher, another Zodiac Killer identity puzzle, we need to use the cipher key that the Zodiac used in this next sequence.

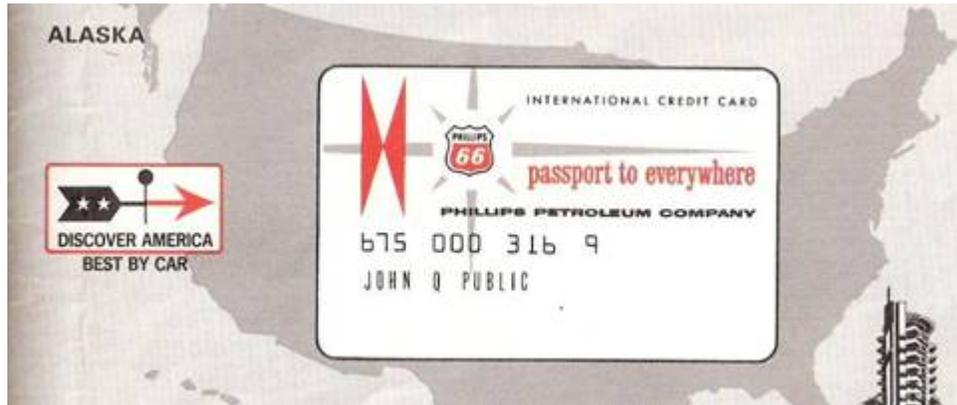


Figure #XL

The Phillip’s 66 map cover has an advertisement for an “international” credit card. There are “10” variables in the advertised credit card number on the map. These variables are:

6750003169

Now, from the sequence above where we derived the 10 variables from the solved “My Name Is” cipher gives us:

8134818184

I am going to add the numbers from the credit card advertisement on the Zodiac’s Phillip’s 66 map to the sequence derived from the “My Name Is” cipher solution. This gives us:

$$\begin{array}{r}
 6750003169 \\
 + 8134818184 \\
 \hline
 14884821353
 \end{array}$$

This gave me eleven variables in the first solution sequence of this new cipher.

Now, for the next step—on the credit card advertisement is a name, “John Q Public”. This name is eleven variables! But first we want to alphabetize the eleven variable solution above so that we can apply it to the name found on the credit card advertisement. Doing so gives us:

14884821353 = ADHHDHBACEC

So using the numeric values in the alphabet for the eleven variables gave us:
“ADHHDHBACEC”.

Now, we are going to apply it to the “John Q. Public” name found on the credit card advertisement, subtracting the letter values from the top sequence with the name below:

ADHHDHBACEC
-JOHNQPUBLIC

IKOFMHS AIDO

This solution is anagrammed into:

MIKADOFISH-

The Zodiac Killer was notorious for deliberately leaving errors in cipher solutions so the solution must read:

MIKADO-FISH

The Zodiac Killer previously quoted the play “Mikado” in letters to the police. This is another important clue. So how does this all fit in together? The Zodiac gave us clues to solving this last sequence.

By 1974 it became clear to the Zodiac that no one had solved his mailings in 1970 which included these cipher sequences, and so the Zodiac sent this letter to police on January 29, 1974:

*I saw + think "The Exorcist"
was the best saterical com-
idy that I have ever seen.*

Signed, yours truly :

*He plunged him self into
the billowy weec
and an echo arose from
the suicides grave
titwillo titwillo
titwillo*

*Ps. if I do not see this
note in your paper, I
will do something nasty,
which you know I'm capable of
doing*

?
IRIA

*Mc - 37
SFPD - 0*

Figure #XLI

The segment from the Zodiac Killer's letter that concerns us is this part:

“He plunged him self into
The billowy wave
And an echo arose from
The suicides grave
Titwillo titwillo titwillo”

Zodiac derived these verses of a song from the play “The Mikado”. The song from the original play that he quotes is:

Mikado

“On a tree by a river a little tom-tit
Sang "Willow, titwillow, titwillow"
And I said to him, "Dicky-bird, why do you sit
Singing 'Willow, titwillow, titwillow'"
"Is it weakness of intellect, birdie?" I cried
"Or a rather tough worm in your little inside"
With a shake of his poor little head, he replied
"Oh, willow, titwillow, titwillow!"

He slapped at his chest, as he sat on that bough
Singing "Willow, titwillow, titwillow"
And a cold perspiration bespangled his brow
Oh, willow, titwillow, titwillow
He sobbed and he sighed, and a gurgle he gave
Then he plunged himself into the billowy wave
And an echo arose from the suicide's grave
"Oh, willow, titwillow, titwillow"

Now I feel just as sure as I'm sure that my name
Isn't Willow, titwillow, titwillow
That 'twas blighted affection that made him exclaim
"Oh, willow, titwillow, titwillow"
And if you remain callous and obdurate, I
Shall perish as he did, and you will know why
Though I probably shall not exclaim as I die
"Oh, willow, titwillow, titwillow"

The Zodiac was trying to figure out if the police solved his “My Name Is” “John Q. Public” cipher sequence and to provide them with a clue to solving it if they had not solved it.

Now to finish the “John Q. Public” cipher sequence. The solution is:

MIKADO-FISH

In the Mikado play, No. 13 (the 13th Act of the play) is titled: “For He’s Gone and Married Yum Yum”.

In this act of the Mikado Play we get the “fish” reference:

“On this subject we pray you be dumb —
Dumb — dumb!
We think you had better succumb —
Cumb — cumb!
You'll find there are many
Who'll wed for a penny,
Who'll wed for a penny,
There are lots of good fish in the sea,
There are lots of good fish in the sea,
There's lots of good fish, good fish in the sea,
There's lots of good fish, good fish in the sea,
In the sea, in the sea, in the sea, in the sea.”

Now, using the clue from the Mikado segment that the Zodiac mailed in to police on January 29, 1974:

“Then he plunged himself into the billowy wave
And an echo arose from the suicide's grave
"Oh, willow, titwillow, titwillow"

Now I feel just as sure as I'm sure that my name
Isn't Willow, titwillow, titwillow”

The line that concerns us with the Zodiac clue about the Mikado that the serial killer mailed to police on January 29, 1974, is the line following the lines that he wrote on his message:

“Now I feel just as sure as I'm sure that my name
Isn't Willow, titwillow, titwillow”

Using this clue, we will apply it to the 13th Act of the Mikado play that references the “fish” using the Zodiac’s literary sequencing:

“You'll find there are many
Who'll wed for a penny,
Who'll wed for a penny,
There are lots of good fish in the sea,
There are lots of good fish in the sea,
There's lots of good fish, good fish in the sea,
There's lots of good fish, good fish in the sea,
In the sea, in the sea, in the sea, in the sea.”

This gives us the final cipher solution, the solution to the Zodiac’s “John Q. Public” cipher:

Who'll wed for a penny.

There are lots of good fish in the sea,
There are lots of good fish in the sea,

The two words “fish” are the sixth words on each line. The final solution then is:

Penn 66

Zodiac Card Mailing Timeline

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
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- ❖ Leona Roberts: Proposed Zodiac **Murder Victim**
- ❖ The Zodiac Killer's Halloween Card: Tiburon **Library** Location on Paradise Drive, in Tiburon, California.
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- ❖ The Zodiac Killer's Dragon Card: **Librarian**
- ❖ The Suspect: **Gareth Penn—Librarian**
- ❖ Mensa: **Gareth Penn**
- ❖ CatBird Seat: **Killed Girl At "CatBird Seat"**
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- ❖ Gone With The 25(cent) Potroast: A **Memorial** to **My 23 Eyes**.
- ❖ Te Moriarty Salutamus: **We Who Are About To Die, Salute You!** – "**August 5**"
- ❖ The Leona Roberts Connection: **Zodiac XY EYES**
- ❖ The John Q. Public Cipher: **Penn 66**

The Zodiac Killer mailed cards that he created or purchased from stores in a very specific timeline. This timeline is important because it was another clue from the serial killer as to his own identity.



Figure #XLII

Pen + Dragon

Pendragon

In the legend of King Arthur, the king's name was Arthur Pendragon. The story of King Arthur is about the Knights of the Round Table (The Mountain Jacks Restaurant) and Arthur's encounters with a supernatural being known as the "Lady by the Lake".

It is evident then that the Zodiac's killing of and disposing of his victim's bodies near bodies of water is tied into this theme.

Gareth defined in the dictionary is a "hero" of this "Arthurian" legend.

Gareth: In Arthurian legend, a nephew of King Arthur and one of the Knights of the Round Table.

Source: <http://www.thefreedictionary.com/Gareth>

Conclusion

Cumulative Evidence and Cipher Solutions

- ❖ The Zodiac Killer's "My Name is" cipher: **A Blood Train HM**
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- ❖ Te Moriarty Salutamus: **We Who Are About To Die, Salute You!** – **"August 5"**
- ❖ The Leona Roberts Connection: **Zodiac XY EYES**
- ❖ The John Q. Public Cipher: **Penn 66**
- ❖ Zodiac Card Mailing Timeline: **Pendragon** – The Legend of King Arthur and the Lady by the Lake.

The evidence trail in my investigation of the Zodiac Killer case is far beyond a reasonable doubt. The following are some questions that must be asked in regards to the evidence that I have compiled by solving the Zodiac Killer's mailings to police and the newspapers, the Zodiac's puzzles and ciphers, and Gareth Penn's hidden puzzles in work that he submitted to "The Ecphorizer":

- ❖ How is it possible that Gareth Penn, the first individual in 1981 to propose that the Zodiac Killer used "radians" in the serial killer's work, would himself work at ground zero of the Tiburon skeleton sine solution on the Phillips 66 map?
- ❖ Why did Gareth Penn say that Michael O'Hare was a Zodiac suspect, when the last name O'Hare is clearly a reference to Penn's own Pi theory about the Zodiac case? How is it possible that the Zodiac Killer placed the skeleton sine in Tiburon over 3141 Paradise Drive, the first four variables of Pi? (3.141)
- ❖ Why did Gareth Penn focus on Zodiac suspect Robert Hunter, when the Zodiac's bomb diagram was to the "Mountain Jacks" restaurant in Lafayette giving the solution "**Hungry Knight Shooting Clay**", when no one knew that information until I recently solved the Zodiac Killer's own work from 1969 and 1970?
- ❖ How is it possible that the Zodiac Killer's pool game puzzle using the triangle sine in Tiburon gives the solution "Z", and Gareth Penn worked at the same location in a "library"?

It appears that when the Zodiac Killer could not be confident in the police solving his cipher work and other puzzles that he then turned to Mensa for an audience that he believed would be qualified to solve the work. Perhaps it was a challenge, a thrill, for the Zodiac Killer to do so.

Based on the evidence available to the public, in combination with the solutions I have provided to the ciphers and codes found in that evidence, which I have presented in this report, there is but one logical conclusion:

Gareth Penn is the Zodiac Killer.

3141 Paradise Drive/Dragon Card Overlay

The 3141 Paradise Drive, Tiburon, address matches the Dragon card drawing as an overlay to that location. The following images are used to confirm that hypothesis.



Figure #XLIII

Notice in the Google Earth image above how the road at 3141 Paradise Drive, Tiburon, matches the dragon that the Zodiac Killer is riding in the “Dragon” card drawing. Pay specific attention to the dragon’s tail. It matches the “tail” in the road at 3141 Paradise Drive perfectly.

For clarification:

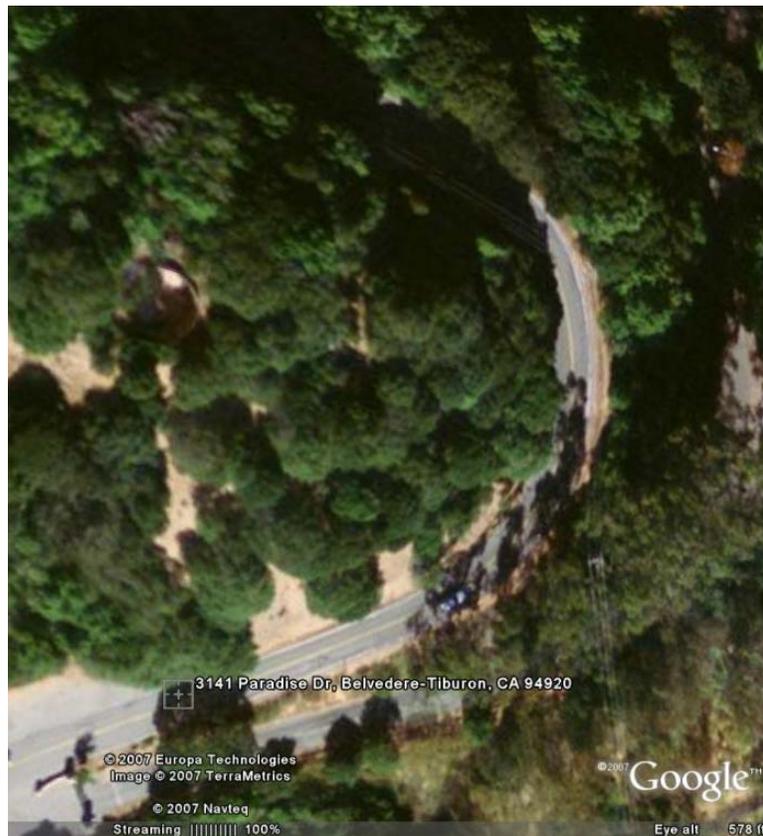


Figure #XLIV

Possible Victim Burial Locations

The following photographs were taken in the vicinity of 3141 Paradise Drive, Tiburon, California. This is the exact location that the Zodiac Killer created his sine puzzle using the Phillips 66 QQ Code 1969 version map, and reaffirmed with his other puzzles.

The photographs show pits dug by human hands using an entrenching tool or D-handled shovel of some type. There was no construction of a facility that took place in this location. There are eight of these “shallow grave” like pits dug in this one area alone. The shallow graves are grown over with moss and filled with forest debris for many years. One of the pits still has a pile of sand next to it where the person digging the pit didn't bother to refill the hole.



Figure #XLV



Figure #XLVI



Figure #XLVII



Figure #XLVIII



Figure #XLIX

This entire area is littered with these man-made holes in the ground that appear to be shallow graves that have settled over time. These locations were not probed for human remains and the soil was not removed in any location. It is recommended that this site be investigated for its potential as a human burial location used by the Zodiac Killer.

Pictures Source: OPORD Analytical Sources and Methods

Images

Figure #I	Page 4	Image of Zodiac's "My Name Is - " cipher letter
Figure #II	Page 5	Cipher characters from Zodiac's "My Name Is - " cipher letter
Figure #III	Page 5	Ibid
Figure #IV	Page 8	Image of 1969 version QQ code Phillips 66 map
Figure #V	Page 9	Image of Zodiac's letter accompanied by bomb diagram
Figure #VI	Page 10	Ibid
Figure #VII	Page 10	Ibid
Figure #VIII	Page 11	Insert from 1969 version QQ code Phillips 66 map
Figure #IX	Page 11	Cipher characters from letter accompanied by bomb diagram
Figure #X	Page 11	Solution to cipher in letter accompanied by bomb diagram
Figure #XI	Page 12	Solution to cipher in letter accompanied by bomb diagram
Figure #XII	Page 12	Solution/comparison to emphasis in letter
Figure #XIII	Page 13	Image of front of Zodiac's "Secret Pal" card
Figure #XIV	Page 14	Image of back of Zodiac's "Secret Pal" card
Figure #XV	Page 14	"Paradise" from front of Zodiac's "Secret Pal" card
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Figure #XXI	Page 20	"Feel it in my..."
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Figure #XXIV	Page 22	Overlay of skeleton on Phillips 66 map/backwards 'J'
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Figure #XXVI	Page 23	Ibid - on its side
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Figure #XXXIV	Page 41	GoogleEarth image comparison of bomb diagram
Figure #XXXV	Page 46	August 4, 1969 Zodiac Statement - quoted
Figure #XXXVI	Page 48	Image of Zodiac's writing on the "Dripping Pen" card
Figure #XXXVII	Page 48	"DEG" enlarged from Dripping Pen card
Figure #XXXVIII	Page 50	"My Name Is - " cipher characters, [focus on circled 8's]
Figure #XXXIX	Page 51	Image of the "International Credit Card"
Figure #XL	Page 52	Ibid
Figure #XLI	Page 53	Image of Zodiac's "Exorcist Letter"
Figure #XLII	Page 57	Comparison of Dripping Pen card and Dragon card
Figure #XLIII	Page 61	Comparison of 3141 Paradise Drive/Dragon card
Figure #XLIV	Page 62	Ibid
Figure #XLV	Page 63	Possible victim burial site #1 at 3141 Paradise Drive
Figure #XLVI	Page 64	Ibid
Figure #XLVII	Page 65	Ibid
Figure #XLVIII	Page 65	Ibid
Figure #XLIX	Page 66	Ibid

Sources

- OPOrd Analytical Internal Research, Sources and Methods.
- Map Sources: Phillips 66 1969 Version QQ Code Travel Map of Marin County, California.
- Google Earth Images: Google Earth.
- Zodiac Images: [America's Most Wanted](#).

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