

Zodiac
For FBI - JFL Federal Office Building, Boston MA 02203 // 6/12/82
Attn. ~~Asst. Special Agent in Charge~~

Enclosures

4/7/82

A. [redacted] Summary of Zodiac, [redacted] connection

B. Faculty Book Picture of [redacted]

C. [redacted] Correspondence to [redacted].

- 1st letter from [redacted] dated 3 March 1982

- 2nd letter from [redacted] pursuant to [redacted] calling

[redacted] on March 5th - Letter dated 5 March 1982 with "Zodiac Familiarization Kit" enclosures:

① Portrait of Artist as Mass Murderer [redacted]

[redacted]

② Rabbit picture

③ Euphorizer piece

④ California map

⑤ The Other Shoe

⑥ Zodiac Cryptography analysis

⑦ The 340 character cipher.

⑧ 35/4 - Zodiac Signature

⑨ Conclusion of Zodiac into [redacted]

b6
b7c

- [redacted] 26 March 1982 letter to Webster - Handwriting Zodiac + [redacted]

- [redacted] 1 April 1982 letter to Webster - Handwriting and copy of first letter from Zodiac after the 1966 Bates killing ("The ~~Black~~ Confession") + Bus Bomb diagram

- [redacted] 5 April 1982 letter to [redacted] - Analysis of "Santa Clara" letter sent to [redacted] (rec'd 27 January 1982)

(Savvy Police)

copy of this memo to [redacted] (Harvard Police).

April 12, 1972

2:45 PM

To: FBI [redacted]

Saugus Police
Harvard Police [redacted]

From: [redacted]

Subject: [redacted] communique re Handwriting comparison
of [redacted] with Zodiac

packaged for

- Just after I [redacted] expressed the material to you today, I received another envelope from [redacted] in which he encloses side-by-side handwriting samples of [redacted] (taken from marriage/divorce applications) and the Zodiac killer (taken from the Zodiac notes).
- b6
b7C
- These are forwarded herewith for your perusal prior to our meeting on Friday, April 16th.

CC: [redacted]



Handwriting

"2" Handwriting

b6
b7C

MICHAEL

electric

CAMBRIDGE

Chronic

CAROL

which

CALVIN

cracked

BURCHARD

Christness

TEACHER

CIPHO

Cambridge

cid

PLACE

In both cases, C is formed with the upper part of the letter being about 45 degrees out of horizontal. The other notable feature shared by both hands is that they tend to show a hairpin-bend toward the lower left-hand..

Handwriting

"Z" Handwriting

b6
b7c

BURCHARD

Brand

BERTA

Bombs

ROBERT

B

BERTS

In both of our authors, B is formed upper-case with a horizontal stroke departing at a right angle from the top of the first stroke, then forming an acute angle, then departing from the first stroke again at almost exactly the same angle at which it arrived. The similarity between the B's in ROBERT and Brand is particularly striking.



Handwriting

"Z" Handwriting

b6
b7C

MICHAEL

MAX GOULIES

Meannies

M @ U N A M

MATTHA

Upper-case M is formed with two upright strokes inclining to the right joined by a curved ligature which tends to be compressed tightly toward the left-hand side.

Handwriting

MAGGOLIES

In the example above, G was written as a lower-case letter in the midst of upper-case letters. The short cross-strokes closing off the top and standing in for a curlicue at the bottom end of the downstroke were added after the author had already lifted his pen from the paper. The ends don't quite match up. Without those emendations, the letter formed matches the Zodiac's G's, flat open loop open at the top, sharply inclined downstroke without curve or floscule at its end.

"Z" Handwriting

doing

light

try-ing

killing

some thing

thought

CAMBRIDGE

some thing

EUGENE

killing

finding

writing

The second type of G is an open, flowing letter resembling upper-case S in form. The remarkable thing is that both authors write both of these rather peculiar forms.



Handwriting

Middle of line

Watson

Cambridge

"2" Handwriting

date

a

at

a

a

a

early

car

Bat

Lower-case A is a flattened loop inclined sharply to the right. The ligature joining it to the following letter comes down sharply, separating itself from the body of the letter.

Otherwise, it is a fat letter with a short ligature as exemplified by the A's in Watson and Bat.

b6
b7C

HandwritingZ Handwritingb6
b7c

Watson

for

in in

seen

into

want

know

one

sent

born

someone

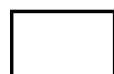
working

something

opens

velocity

Lower-case n is truncated. It stands much lower than any other lower-case letter.



Handwriting

Y Q K

N.Y.

Y is written in all cases like
a lower-case letter consisting
of one long and one short stroke.
The short stroke joins at an
angle of 90 or more degrees.

"Z" Handwriting

Boy

by

glo-y

+ macy

try ing



Handwriting

Cambridge

"Z" Handwriting

doing

taller

Editor

Fried

Zodiac

so

do

sad.

filled

do

aid



Handwriting

"Z" Handwriting

b6
b7c

STUDENT

Western

FIRST

west

SOMERVILLE

so

Watson

Bombs

MARGOULIES

Pants

ST.

S.F.

I think that a detailed discussion of these comparisons is superfluous. I direct your attention in particular to the S in FIRST and west, Watson and Bombs, Margoulies and pants, ST. and S.F. These pairs are virtually identical in form.

sun

strings

5 March 1982

Dear [redacted]

Enclosed, as promised, is your Zodiac Familiarization Kit. I've numbered things in the order in which I suggest reading them, for the purpose of comprehensibility. The subject is bewildering.

The California piece is sensationalized, trivialized, and not to my liking as a piece of writing. In this case, I can pass the buck to the editors of the magazine, who like things that way. As for the rest, the Ecphorizer piece and the section titled "35/4" are the only parts edited up to my standards. The rest is just notes for a presentation, essentially the same one that I made to ABC News Department. Parts are repetitious, and a good deal of revisions need to be made. Please bear with me.

Let me give you an overview of what appears to be the pattern. Z. is an egomaniac, and a very brilliant one. He seems to be sociopathic, which means essentially that he has no conscience whatsoever. He does not appear to be insane -- I say that after consulting with a leading forensic psychiatrist.

Somewhere along the line, he began fooling around with binary numbers and noted the formal similarity between them and Morse Code -- a similarity that your engineers at ITT have also noted: radio telemetry is basically Morse Code used as binary numbers. It works equally well either way. Probably many years ago, he wrote out pi as a binary number and noticed that it spells his family name in Morse. I think it went to his head.

[redacted] writings, very involved in esthetic problems. He spends considerable space in an article he wrote for a student publication back in [redacted] people how to see", and he proposed a new art-form which he called "meta-writing" -- writing whose graphic form is more expressive than the verbal content of the text. There are examples in the enclosed that are perfect illustrations of this technique. The idea seems to have been to draw attention to himself by outrageous acts, then utilize that attention to get a billboard on the front page of the newspaper, where he could publish his identity in a form that he thought no one would be able to read -- except perhaps 50 years or so down the road, when it would be too late to do anything about it.

b6
b7C

I have tried to start with givens about which there can be no doubt, or whose probability is extremely low, when taken as coincidence. Then, where a probabilistic analysis is not possible, elements found in the more certain readings are taken out and put in the order given explicitly by the Zodiac (e.g., UE, as in "dadgertue" for "dangerous" and "fiygue" for "figure") or in readings where a high order of probability is available. Let me give you an example.

Using an arbitrary method seemingly suggested by the author (see "The Other Shoe", enclosed), I analyzed the 340-character cipher as a binary message, not as a substitution cipher (one symbol for each letter). A binary code can be used to write binary numbers, Morse Code, or both. The very first passage of 13 digits is identical when read this way with pi carried out to 13 places. The number of combinations possible with 13 places, using a binary writing system, is 8192. In other words, I had one chance in over eight thousand of coming up with that particular combination -- a very distinctive number which appears explicitly elsewhere in the literature. The cipher in question was postmarked 10 November 1969. 10 November is, counting from New Year's Day, Day 31 $\frac{1}{4}$ of the year. The date quotes the first three digits of pi, 3.14. . . . There are 8 dates out of 304 days on which the Postal Service does business that quote 1, 2, or 3 digits either of pi or its fraction (3, 31, 31 $\frac{1}{4}$, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{4}$) when expressed either as Day of the Year or as a numerical date, e.g., 3-14 for the 14th of March. The probability that both of these things will happen randomly to any given document is the product of 1/8192 and 8/304. It's 1/311,296. The odds against coincidence are over 300,000 to one. Unfortunately, the FBI doesn't recognize pi when it is expressed as a binary number. It's the first 13 digits which happen to be identical to the family name in Morse Code.

I mentioned in my first letter that there were aspects of the two sites where Joan's effects were found that fit the pattern. I'm sure that it must have occurred to you to wonder why the criminal would not dispose of everything at once, and as quickly as possible. I believe that the purpose of leaving them where he did was to mark certain sites. There was a very high probability that the purse and wallet would be found where he left them; there was absolute certainty that the suitcase would be found. An ordinary criminal might have just dumped them in the river or pitched them into a dumpster.

[redacted] in 1966 on his first wind-tunnel test. His test model was of a tower on the MIT campus which was plagued by wind-related problems. The scale he used was 130:1. Let me give you your first example of what I call Binary-Morse. 130 is 10000010. His mother's name, [redacted] is Morse [redacted]. It's the same se-

b6
b7c

quence, 10000010. This number is thematic in the Zodiac literature, and the August 1969 cryptogram is structured on it (130xpi). The exact word-count of the text of the article is 1970 (I counted it up). TOWER, written in Morse and read as a binary number, 11110110010, is 1970. The probability of such a coincidence involves too many variables for computation, but I think that you can see that it is very small. Combinations adding up to 1970 appear also in the Zodiac literature. The fact that he went to that much trouble indicates that it is very important to him; the fact that the scale of his model spells his mother's name is also ominous.

Now, to get down to cases: I have inspected the US Geological Survey quadrangle for Lynn, Mass. The stretch of Highway 107 between the Pines and Saugus Rivers has no features whatsoever -- the USGS colored it white -- other than the WRYT radio tower. That in itself could be meaningless, and as long as it was only that, I didn't consider it worthwhile to bother you about it. But what changed my mind was the ~~fixing~~ finding of the suitcase at the Greyhound terminal.

As you will see developed in the enclosed, the Zodiac's most consistent theme is the number 9. The 9th letter of the alphabet is "I" -- the most important word in English to an egomaniac. The Rand-McNally map of Boston shows the Greyhound station on St. James Avenue between Arlington and Berkeley. Just to make sure, I called Greyhound in Boston and asked them where they were. Comparison of that location with the USGS quadrangle Boston South shows that the bus terminal is right next to one of four benchmarks in downtown Boston, BM 9. [redacted] And before you object that only a weirdo like me would read everything off of a topographic map, let me point out that [redacted] is both an engineer and a specialist in urban planning -- topo maps are his stock-in-trade.

b6
b7C

As for forming geometric patterns on the map, that was a high art form in the late sixties. [redacted] on whom he seems to be modeling himself, is -- or was at the time -- a leading American sculptor. There's art in the family, and [redacted] himself is deeply involved in art, as comes out of his student writings.

Why was he in California? At the time, he was working for the consulting firm, [redacted]. His specialty at that time, wind-tunnel testing of architectural models -- of necessity requiring mockups of entire neighborhoods -- demands very large wind-tunnels. The San Francisco Bay Area is where the largest wind-tunnels in the country are located, at Ames Research Laboratory in Sunnyvale, a NASA facility. I haven't been able to document his presence there, but it seems like a natural.

The Zodiac's last communication before a three-year silence was the so-called Lake Tahoe Card, which has an artist's rendering of a proposed condominium development at Lake Tahoe. The project was at the time in the permit-application process. Nobody ever asked the hard question at the time as to where the picture came from. Since the project had not even been approved, let alone two sticks being put together, I suspect that it was taken from an Environmental Impact Report filed with the Tahoe Regional Development Agency, which has perhaps the strictest standards in the country. At the time, [redacted] was working on a Ph.D. in a new specialty environmental planning, while continuing to work for [redacted]. I am working on the agency to review their EIR's for that period, and I wouldn't be surprised to find that [redacted] had done the EIR for the developer; I wouldn't be surprised to find that their environmental and esthetic expert, [redacted] had prepared the ~~xx~~ report -- or even done the artist's rendering. But since it's a government agency, it will take me about six weeks to find out. In any case, I think that working for [redacted] he would have had ample opportunity for commuting between Massachusetts and the Bay Area. And if you want to commit the perfect crime(s), what better place than 3000 miles from home, where nobody knows you?

b6
b7C

I suggested to you that we might join forces. I just took a call from your hood of security, who tells me that we already have. He's been on [redacted] trail for some time now.

I've got my own selfish reasons for being involved in this as deeply as I am -- and believe it or not, ambition is in second place. The selfish psychological reason is that I want to beat this SOB, and I will do anything I can to help anybody else who can promote that objective. If you think it worth pursuing, consider me at your disposal.

Sincerely,



Enclosures

PORTRAIT OF THE ARTIST ASA

Mass Murderer

Were the Zodiac murders part of a grand design? For an amateur sleuth, the question became a terrifying obsession.

From 1966 through 1969 a series of bizarre murders terrorized Californians from Riverside to Napa. It seemed the killer struck at random, but in his cryptic letters to the press, which continued until 1974, there was the hint of a method in his madness. Today, twelve years since his last known attack, police have all but given up hope of ever catching the Zodiac—or of understanding his crimes.

Not George Oakes. A writer and gentleman scholar, Oakes lives in the hills north of San Francisco. Prompted by news stories in which the Zodiac was erroneously associated with the Trailside murders in Marin County, Oakes took up the case late last year. But he brought to his inquiry an unusual array of talents: postgraduate training in literature and library science, map-reading skills gained in the army, a familiarity with secret writing, passed on to him by his father, a former army cryptographer, and a passion for the riddles of Lewis Carroll.

After Zodiac's reign of terror, Oakes's father was employed in the attorney general's office in Sacramento, where he read over the entire Zodiac file. There were

portions of the killer's strange messages that had never been released to the public. For instance, the Zodiac had hinted that if a radian angle were placed on Mount Diablo—a well-known Bay Area landmark—something interesting might be found. Investigators—most of whom construed the murderer's misspellings and garbled syntax as a sure sign of cretinism—had ignored the clue. Oakes pounced on it. It was to be the keystone of the most amazing Zodiac theory yet.

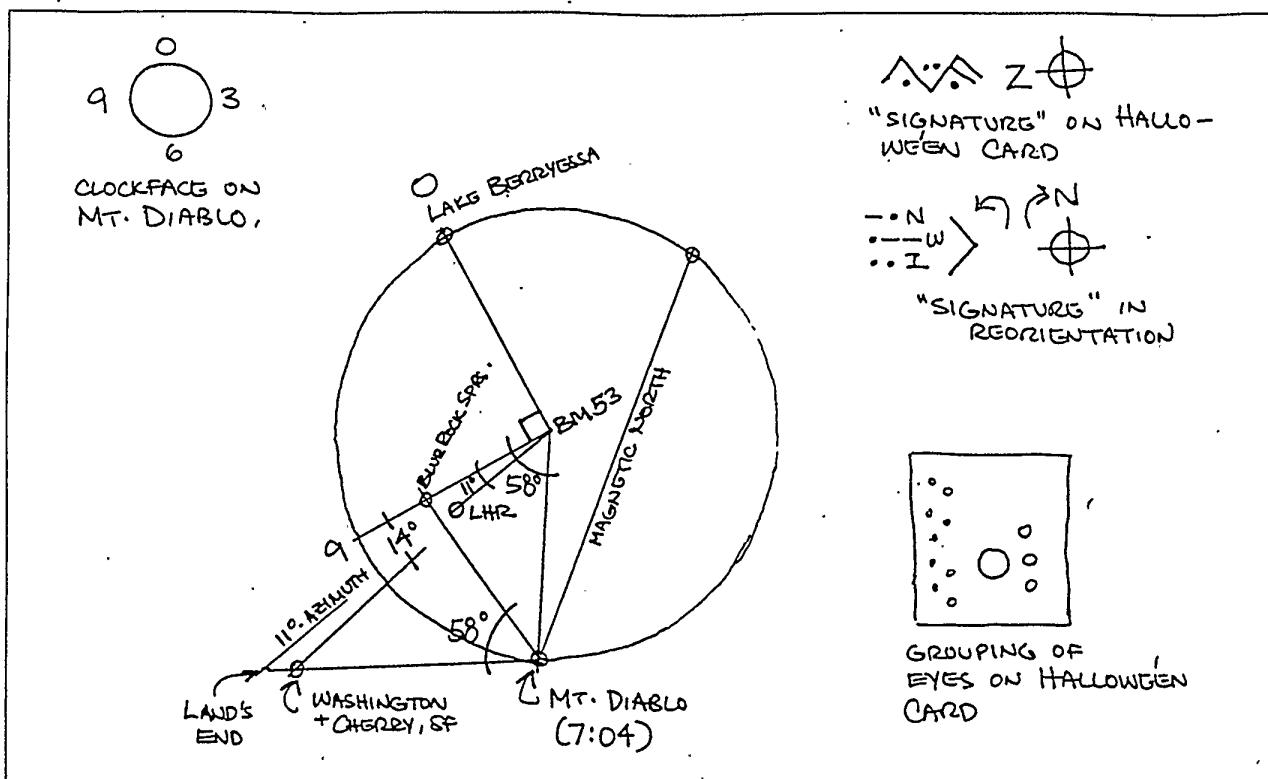
Four months ago Oakes sent us the "portrait" that follows. As far as possible, statements of fact have been verified, as they routinely are in stories published by California Magazine. But this is no routine story.

ON THE FOURTH OF JULY 1862, the Reverend Charles Dodgson took Alice Pleasance Liddell and her sisters, Lorina and Edith, on a boating picnic, rowing upstream from Oxford, where Dodgson taught mathematics. The party stopped for tea on the riverside, where

the man who was to become known the world over as Lewis Carroll extemporized the first version of *Alice's Adventures in Wonderland*. The story was spellbinding, full of happenings that defied explanation. In its published version it included a number of mathematical puzzles, nonsense verses, and words with strange spellings, but for the moment, it was just a fairy tale made up on the spot for the amusement of the three little girls, and especially for Alice, who was the heroine. Carroll later recalled, "I distinctly remember how, in a desperate attempt to strike out some new line in fairy lore, I had sent my heroine straight down a rabbit hole, to begin with, without the least idea what was to happen afterward."

On the evening of October 30, 1966, more than a century later and half a world away, Cheri Jo Bates parked her Volkswagen in front of the library at the city college in Riverside, California. When she returned with some books on English composition, her car refused to start. It was found the next morning with its ignition system completely dismantled. Bates was found in an alley half

BY GEORGE OAKES



From the author's notebook: When Oakes placed a radian angle on Mount Diablo, the murders seemed to form a pattern—a "death clock" writ large, with Lake Berryessa at the ominous zero hour. He found a Morse code message in the pelicanlike symbol on the Zodiac's Halloween card, and the holes in the card looked like "casting out nines," a mathematical allusion to vanishing. Police are baffled by the interpretation.

a block away. Her throat had been cut. A man's Timex watch was lying near her body. Witnesses who heard her screams had not called the police.

A month later the local press and police received carbon copies of a typed letter from the murderer. It was full of strange phraseology and a number of untruths. But it alluded to details known only to the police, proving that it was from Bates's killer. "She was young and beautiful," it began. "But now she is battered and dead. She is not the first and she will not be the last. . . . When we were away from the library walking, I said it was about time. She asked me, about time for what? I said it was about time to die. . . . I am not sick. I am insane," it read in part. It was headed "BY," followed by a long black line drawn with a felt-tip pen. There was no signature.

Some months later, a strange poem was found scratched into the top of a desk at the city college library:

Sick of living unwilling to die
Cut clean if red! clean
Blood spouting dripping spilling
All over her new dress
Oh well it was red anyway
Life draining into an uncertain
death
She wont die this time
Someonell find her
Just wait till next time

It was signed "rh." Exactly six months

after the murder, another letter, this one handwritten, came from the murderer. There were three copies, two of them signed "Z." Years went by before expert analysis showed that the poem and the second letter were from the same hand.

Two years passed. Teenagers David Faraday and Betty Lou Jensen parked just off rural Lake Herman Road near Vallejo in the northern part of the San Francisco Bay Area. It was late in the evening of December 20, 1968. It was their first date. It was almost the longest night of the year. For Faraday and Jensen, the night stretched into eternity. Faraday was found by the car with one bullet in his head. Jensen was sprawled 30 feet from the car with five bullets through her back. The killer had used a .22-caliber weapon, probably an automatic pistol.

The Lake Herman Road killings had nearly been forgotten by the next summer. On the evening of July 4, 1969, Darlene Ferrin, who waited tables to support her infant daughter, parked at the Blue Rock Springs golf course near Vallejo, not far from Lake Herman Road, with a boyfriend, Michael Mageau. Just after midnight, someone walked up to the car on the passenger side. The door was suddenly snatched open, and a hail of bullets poured into the interior of the car. The assailant then drove into downtown Vallejo and called the police department to report the shooting from a phone booth on Springs Road, only a few blocks away.

Ferrin died. Mageau survived. The killer had used a 9mm automatic.

Three weeks later, three Bay Area newspapers received a cryptogram from someone who claimed to be the Lake Herman Road and Blue Rock Springs murderer. It was too difficult for the military cryptanalysts who worked on it. The solution came from a high school teacher in Salinas. When deciphered, it read as an encomium on the joys of homicide: "I like killing people because it is so much fun." At the end was a scramble of letters that received various interpretations. It read: "EBEBRIETEMETHHPITI."

Even in the English part, the choice of words was sometimes strange, and the syntax seemed to break down here and there. It contained queer words such as "hongertue." The police reasoned that the murderer was mentally deranged and had lost control of his cipher system. The press reported various theories, and some papers just changed "hongertue" into "dangerous"—which was the apparent meaning—and let it go at that. The "cipher killer," as he was now called, was passed off as a crazy who frequented lovers' lanes. Drive-in movies in the North Bay suddenly posted record profits.

Early that fall Cecilia Shepard, a former student at Pacific Union College in Napa County, to the north of Vallejo, and Bryan Hartnell, who was still going to Pacific Union, were picnicking near the

"Other artists had sought to remove their work from the ordinary human perspective. Zodiac trumped them all."

water's edge at Lake Berryessa. It was September 27, near evening. Out of nowhere, a man approached. His head was covered by a black hood with eye slits. The hood was emblazoned with a crossed-circle design. He drew a pistol on the couple, tied them up, and pocketed his gun. He then pulled out a long knife and stabbed both of them savagely. He stabbed Shepard over and over in the back. When she rolled over, writhing in agony, he stabbed her once in each breast, once in the stomach, and once in the genitalia.

His fury expended, the killer put away his knife and produced a black felt-tip marker. He wrote on Hartnell's car door the dates of the Lake Herman Road and Blue Rock Springs attacks, then concluded the list with the just perpetrated slashing. He noted the time as 6:30 P.M. Then he drew a crossed circle on the door. He drove far off the beaten track, into the center of the city of Napa, and from a phone booth at a car wash on Main Street, he called the police department, which was only four blocks away, to report the attack.

Both victims were still alive when found. Shepard especially was suffering horrible pain. Death finally brought her relief. Hartnell pulled through. Ironically, Shepard had quit Pacific Union College to continue her studies at the University of California in Riverside.

On October 11, two weeks later, cabby Paul Stine picked up a fare in downtown San Francisco. The man slid into the front seat and asked to be taken to the corner of Washington and Maple streets in fashionable Presidio Heights. Somewhere near the end of the trip the fare apparently changed his mind. Stine dropped him a block farther on, at the corner of Washington and Cherry.

Stine pulled over at the corner, in front of a fire hydrant. Instead of producing his wallet, the passenger pulled out a 9mm automatic. Witnesses who heard the gunfire watched through their windows as the killer bused himself with something inside the cab. As it turned out, while the police were being called, he had cut off a part of his victim's shirttail, then dabbed it in the blood that had spattered the inside of the cab. As he strolled away he was stopped by two officers sent to the scene by a confused dispatcher who had alerted them to keep an eye out for a black suspect. The killer was white. He told the officers that he hadn't seen anybody matching the description, and they sped away.

That was the beginning of a long war of nerves. Three days after the Stine

murder a letter arrived at the editorial offices of the *San Francisco Chronicle*. It was from the North Bay's "cipher killer." He authenticated his letter with the swatch of bloody shirttail. The letter began: "This is the Zodiac speaking." He taunted the police for having let him slip through their fingers. They angrily denied his version of the story.

The Bay Area was thrown into a panic. There was no rhyme or reason to the Zodiac's attacks, nothing to hang a hypothesis on. He changed sites, victims, weapons the way other people change their socks. There was no apparent motive—other than killing. The worst part was wondering when and where and whom he would hit next. He wrote that he was thinking of attacking a school bus. For some time, patrol cars convoyed children to school in Vallejo. In Napa County, sheriff's deputies literally rode shotgun on school buses. Bay Area police agencies worked as they had never worked before. But they never developed any substantial clues to the Zodiac's identity or his motives.

As far as is known the Zodiac never attacked anyone again. But he kept the Bay Area on edge off and on for almost five years with a string of letters and postcards, mostly to the *Chronicle*. He usually identified himself as "the Zodiac." Sometimes he was "a Citizen" or "Red Phantom." But the handwriting was always the same, and there was usually the now famous crossed circle.

Some communications were made up of snippets of newspapers and magazines, but even when he wrote his own words in felt-tip script, the Zodiac was weird-sounding. "There is more glory in killing a cop than a cid," he wrote, "because a cop can shoot back." *Cid?* "I shot a man sitting in a parked car with a .38," he wrote. The police turned the state of California upside down looking for a shooting victim who fit the description. Eventually they gave up, deciding that the Zodiac's lack of consistency and what appeared to be claims of victims expressed as box scores—"ME 37, SFPD 0," for example—were proof of advanced dementia. He had stopped killing, the reasoning went, because he was non compos mentis.

Just before Halloween 1970, *Chronicle* reporter Paul Avery, who had written a number of Zodiac stories, received a greeting card from the murderer. It was a "secret pal" note on which the Zodiac had pasted a dime store paper skeleton. He had adorned the inside of the card with thirteen stylized knotholes, to which he had added eyelashes. He also wrote, in various places, "Peek-a-boo—you are

doomed!" "BOO," and "4-TEEN." The card was signed with a symbol that was variously interpreted as a meteorological symbol and a Jewish astrological sign, and there was the familiar Z plus crossed circle, which was, depending on who was speaking, the cross hairs of a rifle's telescopic sight, a symbol from an Asiatic religion (never specified), or a "mystical symbol of the universe."

The police and the papers interpreted the card as a threat against Avery's life. The Zodiac was now claiming fourteen victims, they said, or was threatening to make Avery his fourteenth. Only five Zodiac victims could be accounted for (everybody forgot the two survivors, one of whom had been stabbed five times with a knife, the other shot at point-blank range with a large-bore pistol—only the dead are victims). The Zodiac was obviously raving. Ironically, it was Avery who published, only two weeks later, the link between the Bates murder in Riverside and the Bay Area killings. Now there were six—or eight, depending on one's definition of the word—"victims."

Nobody paid any attention to the connection between the thirteen holes in the postcard, the thirteen eyeholes in the Halloween card, and a thirteen-character cipher he had sent to the *Chronicle*, which he said contained his name. Perhaps he thought that the thirteen-hole postcard would trigger a mental association with a Beatles song: "And though the holes were rather small/They had to count them all."

One of the more interesting—and least publicized—of the Zodiac communiqués was an oil company road map showing Contra Costa County in the East Bay. Near the center of the map was Mount Diablo—Devil Mountain—the highest peak between the coast and the Sierra Nevada. Every one of the Zodiac's Bay Area murder sites can be seen from the peak of Devil Mountain. The Zodiac had superimposed a clock face on its peak. The clock read: "0-3-6-9." Twelve o'clock had been replaced by the ominous "zero hour." In the letter accompanying the map, he intimated that something interesting would be found by placing a radian angle on Mount Diablo. As he had already been categorized as crazy, nobody followed his instructions. The police suppressed the map anyway.

The Zodiac was last heard from in 1974. A letter postmarked late in January of that year quoted, as had previous letters, from the Gilbert and Sullivan operetta *The Mikado*, and it concluded with a group of figures drawn with a felt-tip pen. A facsimile of the letter was pub-

lished on the *Chronicle's* front page, but the pen-stroke figures were obliterated at the request of the police.

SEEN FROM THE PERSPECTIVE OF outer space, the Zodiac murders make a certain kind of sense. They show, in fact, a degree of precision and a consistency of design that, combined with the savagery and viciousness of the crimes, is downright blood chilling. The Zodiac, after all, is a circular band in the sky from which the stars look down on the earth. An approximation of this exalted view can be had just by looking at a road map such as the one that the Zodiac had sent to the *Chronicle*.

A half dozen years after the Zodiac had faded from the public consciousness, I decided to take him at his word. I purchased a U.S. Geological Survey (USGS) map of the Bay Area, a quantity of acetate sheets, and a large protractor. A radian is a circle divided by 2π , forming an angle of between 57 and 58 degrees. I drew an angle of this size on an acetate overlay and superimposed its apex on Mount Diablo. A curious thing happened. As I continued the mathematical experimentation, it became, as Alice would have put it, curioser and curouser.

I rotated the radian angle until one leg passed through the site of the Blue Rock Springs murder. A chill ran up my spine as I noticed that the other leg ran straight through the murder scene in Presidio Heights. I tried it another way. This time I set one leg on Mount Diablo and rotated the overlay until the other leg hit Blue Rock Springs. The apex swung through a lot of open country but passed directly over a bench mark on Travis Air Force Base, BM 53.

I looked at the map again. Sighting northwest to Lake Berryessa, I noticed that the line between BM 53 and Blue Rock Springs formed what looked like a right angle with the west shore of the lake. With my protractor I constructed a 90-degree angle on the overlay. The line ran straight through the Berryessa site. I measured the distance from Berryessa to BM 53 and from there to Mount Diablo. BM 53 was equidistant from both points, roughly 26 miles each way. The Zodiac had scribed a circle.

Mount Diablo appeared to be the anchor of his scheme. Why? Perhaps because he was very knowledgeable about maps. The bench mark on Mount Diablo is the crossing point for the east-west and north-south baselines used by the USGS as a starting point for numbering townships. A bench mark is a small brass plate stamped with a crossed circle or triangle. The landscape is littered with BMs; they are used by surveyors as touchstones of accuracy.

The Stine murder in San Francisco still didn't seem to fit, unless it had served to

construct a second radian just to prove that the first was not accidental. There had to be some other tie-in. From the back of my mind I retrieved the word "FOURTEEN" from the Halloween card. It obviously didn't mean fourteen victims. The angle formed by the Blue Rock Springs azimuth and Presidio Heights looked acute. My heart was pounding as I drew a fourteen-degree angle on my overlay, Blue Rock Springs to BM 53 to Presidio Heights. It intersected with the line from Mount Diablo in the block of Washington Street between Maple and Cherry streets. Probability's cornucopia of coincidence was exhausted.

I went back to the Halloween card and studied it closely. The "signature" at the bottom was particularly interesting. The pelicanlike thing at the left had always been interpreted as meteorological or astrological. Now that I looked at it in the light of the pattern emerging on my map, it looked very much like a right angle with flags and dots attached. It would correspond to the Blue Rock Springs-BM 53-Berryessa right angle if turned 90 degrees to the northwest. It looked a bit out of kilter on the card. I measured the angle its left wing formed with the bottom margin of the card. Fifty-three degrees. Fifty-three again.

Now the two dots between the pelican's wings took on a malevolent glitter, as if they were two hard, cold little eyes staring at me. The eyes. I's. The Zodiac always dotted his i's even in upper case. I rummaged around, found my old boy scout manual, and flipped the dog-eared pages to the chapter on signals. It was Morse code. Reading from left to right, the dots and dashes on the pelican spell "NW" on the outside of the angle. Inside, the two dots spell "I." Turn northwest. I am at the center.

Shaking off my paranoia, I looked at the signature again, keeping my eyes averted from the evil bird on the left-hand side. If I rotated the Z and cross hairs 90 degrees clockwise, symmetrically opposite to the pelican, it became a compass rose, pointing the way north, a map orientation symbol. And there was something else.

The symbol on the left turned counter-clockwise. The one on the right, clockwise. Just like in the bathtub. Water. Riverside. Lake Herman. Blue Rock Springs. Lake Berryessa. The Washington Street fire hydrant. The phone calls from Springs Road and the Main Street car wash. Water, water, everywhere.

I still didn't understand Lake Herman Road. How did it fit in? I measured the angle between it, BM 53, and Blue Rock Springs. Eleven degrees exactly. Now the secondary meanings reported in. Main Street, Springs Road. Mainspring. It was a clock. He used a .22 at Lake Herman Road, then a 9mm at Blue Rock Springs. Twenty-two before nine. Eight thirty-eight. The hour hand sweeps a half de-

gree a minute. At 8:38 it stands exactly at eleven degrees below the nine o'clock line. He got it both ways.

Mount Diablo stood right on the periphery of the clock face. What time would it show? Fifty-eight degrees on the clock is 116 minutes, 1:56 before nine—7:04. In the 58-degree angle joining Mount Diablo, BM 53, and Blue Rock Springs, one leg points at a clock time of 7:04 (Mount Diablo), the other at the site of a murder committed on the calendar date 7/04 (Blue Rock Springs). He did it both ways again.

The Zodiac had left a Timex watch at the scene in Riverside. He used the phrase "about time" three times in rapid succession in reporting his conversation with Cheri Jo Bates. He wrote to the *Chronicle* (from the Greek *chronos*, "time"), the *Vallejo Times-Herald*, the *Los Angeles Times*. One part of the August 1969 cryptogram had gone to the *San Francisco Examiner*, known popularly as the "Ex." Time plus Ex: Timex.

I talked to a friend who paints. He hunted up a book for me on modern American art. There was a chapter in it on "earthwork" art. One pioneer in this field dug some 600 miles of trenches in the Sahara Desert with a backhoe, constructing geometric patterns meant to be perceived only from far above the earth. Others working in the earth medium have incorporated aerial reconnaissance photography into their work. The movement was in full swing in the mid-sixties, major works being executed around 1966 or 1967, two years before the Zodiac's Bay Area rampage. He was the crest of the wave, and nobody knew it—except Zodiac himself.

He had found the ultimate art form. Other artists had sought to remove their work from the ordinary human perspective, but at least the artifacts—the trenches, for instance—were still visible. Zodiac had trumped them all by using invisible lines whose interrelationships were apparent only from 200 miles up. His one-sided correspondence was another part of the conceptual artwork. It had been another late-sixties happening.

There was no passion, no irrationality, no hot blood in Zodiac. He was cold, precise, calculating. His victims were mere markers. They just happened to be standing on an-invisible line whose relationship to other invisible lines could be seen only from outer space by someone whose eye was informed by the guilty secret. Their blood was shed merely to mark his canvas.

ONCE THE CALCULATION and design that went into the 52-mile-wide clock face became apparent, it was clear that Zodiac's rambling, misspelled, often incoherent communications were (continued on page 166)

11:23 P.M.

MONTE CARLO. The casino hopes you never grace their tables again.

The restaurant was only too pleased to greet you to theirs. Now, it's coffee laced with Grand Marnier, sipped through cream. Sometimes you win. And sometimes you win.

*What time today
will you say
"Grand Marnier?"*



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'Glass' Wizard

(continued from page 114)

not the product of a crazed nincompoop. The official attitude toward the Zodiac literature, as I saw it, was best summed up by the King of Hearts, speaking of the nonsense verses presented in evidence at the trial in *Alice*: "If there's no meaning in it, then that saves us a world of trouble, you know, as we needn't try to find any." Where there is design, however, there is meaning, and where there is meaning, the meaning is discoverable.

The tools the Zodiac used are neither new nor unusual. Secret forms of writing have been used throughout history to publish information and opinion that, if openly stated, would lead to the censure or punishment of the author (and in the case of the Zodiac, we are talking about the gas chamber). The prophet Jeremiah, for instance, refers to the despised Babylon as "Sheshach," using a reverse alphabet cipher. Galileo's discovery of the phases of Venus and Huygens's discovery of a moon on Saturn were originally published as anagrams. And closer to our own time, the poet Rolfe Humphries used the pages of the hoity-toity *Poetry* magazine to publish an acrostic that described the president of Columbia University as "a horse's ass."

When I first read the Riverside letter it immediately struck me that the Zodiac was flogging one clue to death. The letter was headed "BY," followed by a long black line. He began: "She was young and beautiful. But now she is battered and dead. She is not the first, and she will not be the last." Young and beautiful: *y* and *b*. *A* is the first letter, *z* the last. *B* and *y* are not the first and not the last; they are the second and the next to last. He said she was "battered and dead." She had died of a severed jugular vein. Now he repeated a near rhyming phrase, "battery . . . dead." He was using a rhetorical device called emphasis to drive home a point nobody got.

When you reverse the alphabet and match up pairs of letters, *b* and *y* make the only pair that spells an English word. What if he were spelling out words in a reverse alphabet cipher like that used by Jeremiah? I tried it out, and it seemed to produce results that could be matched to known Zodiac landmarks. I call the method "wizard" because when you substitute the letters of the word "wizard" for reverse alphabet letters, it spells "draziw," the mirror image of "wizard." The only original twist on the prophet Jeremiah's cipher alphabet appears to be that when two letters whose numerical sum is 27, such as *b* and *y*, occur, they cancel each other out. Cryptanalysts call such letters "nulls." Nulls flesh out a text but add nothing to its contents.

In several places the Zodiac wrote that he was killing people to "collect slaves for paradise." In the word "slaves," the let-

ters *v* and *e* are a wizard pair and drop out. The remainder reads:

S L A S
H O Z H

Z. HOH. Or is it, Z, H2O?

Here is an example of what appears to be a nonsense word but which relates directly to two of the Zodiac's most powerful clues, water and the radian angle. He quoted frequently from *The Mikado*. In one letter he recited a patter song of Ko-Ko, the Lord High Executioner, in which Ko-Ko sings that he has "a little list" of potential victims, including "people who eat peppermint and puff it in your face." But the Zodiac didn't write "puff it." He wrote "phomphit." Nervous titters swept the Bay Area when this was published at the expense of the poor demented loony who couldn't even spell "puff it" correctly. Poor Zodiac. He had the longest laugh.

PHOMPHIT: P2 H2O M I T.

Reading it as an anagram, I see a formula: H2O equals MT over 2PI. H2O is his familiar water signature. MT (read "empty") is the Zodiac's shorthand for "zero" or "circle." A circle divided by 2pi is the radian angle. What was passed off as gobbledegook was really a mathematical equation traveling incognito.

One of the Zodiac's most ingenious devices is a code I call "binary Morse." Morse code is a binary system having only two types of characters, dots and dashes. Zodiac used it from time to time in conjunction with binary numbers, substituting dashes for ones, dots for zeros, and vice versa. Numbers can become words, and words can be transformed into numbers, disguised beyond recognition. "4-TEEN" is a stunt performed by a virtuoso who knows that his audience is incapable of appreciating his artistry. Here's "TEEN" in binary Morse: T(1) E(0) E(0) N(10). 10010: binary 18. "4-TEEN" is a rebus, a puzzle in which the relationship between the two elements implies a verbal clue. 4 before 18 is 14. "4-TEEN" says 14 in English; as a mathematical rebus, it says the same thing another way. Once again, the Zodiac gets it both ways.

Then there's "cid." He didn't misspell "kid." "Cid" is made up entirely of Roman numerals: D (500), C (100), I (1). DCI is 601. In binary notation, 1001011001. In Morse, XEMIT. Timex. Why backward? Because forward, "Timex" in binary Morse is the number 617, Roman DCXVII. Try spelling anything that even remotely resembles English with that!

"I shot a man sitting in a parked car with a 38." Again, a violin recital for the deaf. The Zodiac shot three men sitting in parked cars, one with a .22, the other two with a 9mm automatic. The one he shot with a .22 was unwittingly sitting on the end of a gigantic invisible hour hand pointing at 8:38. Another victim was shot by a fare who had ordered him to skip the

block between Maple and Cherry—the 3800 block. In binary, 38 is 100110. In Morse that's T(1), I(00), M(11), E(0). Time. The clock face. "I said it was about time. She asked me, about time for what? I said it was about time to die."

Let's go back to the Halloween card. The thirteen eyes on the card are divided into two groups: at the extreme left there are nine tiny eyes, to their right four larger eyes. One is very large, and the three to its right are smaller. This is a graphic illustration of the mathematical principle called "casting out nines." The very large eye is a 10, the three smaller ones are 1's. The sum of 1 plus 3 is what's left when 13 is divided by 9. It works with any number. Just add together its digits until only one remains. That's what is left when the original number is divided by 9. The practical effect is that 9 equals 0, and all numbers evenly divisible by 9 likewise equal 0: 18, 27, 36, 45. . . . I is the ninth letter of the alphabet. I is (or am) a 9. The Zodiac frequently called police "meanies." With two n's "meannie" is an anagram for "me a nine."

The Berryessa attack took place on 9/27, at 6:30, according to Zodiac's own documentation. All zeros. According to one estimate, he inflicted a total of 18 wounds—another 0. On Zodiac's Mount Diablo clock, Lake Berryessa is at 12. But he didn't write 12; he wrote 0. Zero hour.

IN THE FIELD OF LITERARY STUDIES there is a classic debate among scholars over the relative importance of form and content. Those who are preoccupied with content argue that what the author says is the proper subject of study; formalists favor study of the way in which the author says it. Discussion of the Zodiac literature has always been limited to the literal meaning of the English words as they appear on the printed page. To date, no serious study has ever been devoted to the form in which those words are expressed.

The Zodiac submitted two lengthy ciphers to public inspection. The first, received August 1, 1969, was his praise of homicide ("I like killing people because it is so much fun."). It ends with the anagram "EBEORIETEMETHHPITI." So much attention was concentrated on the cryptogram as a configuration of words that nobody ever counted it to see what it expresses in numbers.

The English text is 390 letters; the anagram is 18. The ratio between these two numbers, 390:18, is the same as that between 3 and .14159265. This cryptogram is the number pi disguised as a linguistic document. The radian angle, the clue with which my whole inquiry began, is defined by pi. Here it is again, in camouflage. Once again the Zodiac was doing nothing new. In ancient Greece, poems



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were written in the graphic form of their subjects. An example of this is a poem in *Alice*, "The Mouse's Tale," which is printed in the shape of a mouse's tail. The Greeks, who had a word for everything, called this technique *technopegnisia*.

The 340-character cipher, received November 11, 1969, has never been deciphered. Everybody worked on it, including members of Mensa, whose IQs are in the top two percentile of the entire population. All the confident predictions about its solution were never fulfilled. The brightest and the best flunked.

While they were concentrating on figuring out its content, nobody paid any attention to the form. The puzzle consists of three kinds of symbols: block letters, geometric forms, and dots. There are six dots. The lines containing dots subdivide the text into groups of lines numbering one and four lines each. There is no other type. The sequence of undotted lines, reading from top to bottom, is 144114. It's the binary number 38. TIME.

Why groups of four lines? This cipher, like the first one, has 17 letters to the line. 4 times 17 is 68. 68 is the binary Morse spelling of the English word "nine." It's an old friend.

The Zodiac concluded his letter to the *Los Angeles Times*, mailed from Pleasanton in March of 1971, with his crossed-circle sign, followed by the number 17 and a cross. This was translated in a *Chronicle* headline as 17 DEAD. No one thought to correlate that to the form of the two large ciphers—17 across. Likewise, while it was noted that he had manipulated the number of cipher characters used for each letter of the alphabet in such a way as to make *q* the most used character, it wasn't noticed that *q* is letter number 17. Nor was it observed that the number of letters in his missive to the *Times*—408—is exactly the same as in his cipher of August 1969.

WHEN I EXTENDED the line of the hour hand from Lake Herman Road until it crossed the Mount Diablo-

Presidio Heights line, they intersected just off the Golden Gate. About equidistant from both lines and near the apex they form is a feature called Land's End, named after the westernmost point of land in Cornwall, England.

I had once seen Land's End from a ship standing well offshore. It didn't look like much from that perspective, but now I looked at it as the Zodiac would have—on a map. Land's End is five degrees, 44 minutes west of the prime meridian, which runs through Greenwich Observatory. Land's End, San Francisco, is five degrees, 30 minutes west of the 117th meridian, which passes a few miles east of Riverside. When you cast nines out of 117, the remainder is 0. I wondered if the

Zodiac saw a rough analogy here, if Riverside was his Greenwich. One hundred seventeen west runs to the north of Riverside through the deepest hole, measured from sea level, in the Western Hemisphere—Death Valley. Its deepest point, Badwater, is near the line. It reads like a catalog of Zodiac themes: bad, water, zero, hole, death.

Longitude is a function of time. The earth is a gigantic clock, and every fifteen degrees of longitude is an hour on the clock. I remembered something I had once read about Oxford. Before standard time was established in the late nineteenth century, every place was on local time. Travelers had to reset their watches whenever they came to a new town. Standard time, with its fifteen-degree-wide zones, made everything a lot simpler.

But Oxford University didn't like being deprived of its own time. Each evening the bell of Tom Tower at Christ Church College is tolled to commemorate the Oxford founders. The observance is officially set for 9 P.M. But by timeworn tradition, the bell doesn't begin to peal until 9:05 because Oxford is one degree, fifteen minutes west of Greenwich.

So it was when Lewis Carroll taught mathematics at Christ Church, and so it is today. To refresh my memory, I leafed through a book about Oxford, looking for the passage about local time. As I was searching, one of the plates leaped out at me. It was an aerial photo—a Zodiac-eye view—of the city. All the colleges were visible, each one built around a quadrangle whose lawns are quartered by crosswalks. One college is singular: its quadrangle has a circular walk quartered by a cross. The sign of the Zodiac. The college is Christ Church.

I FOUND THE SOURCE OF THE PEN-stroke figures from the January 1974 letter in about an hour after obtaining a photocopy from the police. It seemed logical to assume that the Zodiac would have quoted from something that everybody knew. Otherwise the challenge would have been meaningless.

Alice seemed a likely choice, given the other implicit Lewis Carroll quotations in the Zodiac's oeuvre. John Tenniel's illustrations have been familiar to hundreds of millions of children for more than a century. It also seemed likely that the illustration would show a timepiece. "Jabberwocky" has a sundial. The mantelpiece in the Looking-Glass House has a backward clock.

But there is only one watch, the kind you can carry in your pocket and leave behind at the scene of a murder. The White Rabbit is looking at it, fretting about the time, in the illustration that accompanies the chapter "Down the Rabbit Hole." The Zodiac signed his poem "rh" in Riverside. The pen-stroke figures were taken from the lower right-hand cor-

ner of the White Rabbit's waistcoat and the tip of his umbrella. The groups had been separated to hinder recognition, but when reassembled, they matched up.

The Zodiac wrote in his first letter: "I am not sick. I am insane." Look again: I am Not Sick. I am in SaNe. NS in wizard is MH. Mad Hatter. March Hare. The Mad Tea Party. The Mad Hatter was condemned to a perpetual tea party because he had been *murdering time*.

MT for zero. For Lewis Carroll, MT is the Mock Turtle. He sings the praises of turtle soup "so rich and green/Waiting in a hot tureen!" Question: When is a tureen of turtle soup not a tureen of turtle soup? Answer: When it's MT.

Turtle soup isn't green, anyway. Split-pea soup is green. Scholars haven't noticed it, but Carroll's "green-rich" may have been a pun on "Greenwich." The MT tureen is a hole, a zero. It's GMT, Greenwich Mean Time, the time of zero longitude. GMT is known to navigators the world over as "z time."

Casting out nines. Vanishing. That is what Lewis Carroll's "Hunting of the Snark" is all about. In "Snark," there are nine characters, and all multiples of nine vanish, zero out. The Baker is an interesting character. He loses 42 boxes of goods. That's because 42 boxes is 42 cubed—74,088—which is evenly divisible by nine. He has no name, so everyone simply calls him "Ho!" He also loses his watch and his umbrella. The Zodiac's thirteen-character cipher is made up of block letters and circles, except for the tenth character, which is an inverted umbrella. The watch is in the Riverside Police Department evidence room.

There is another character, called the Butcher. He is also a mathematician. He signs on to kill the Snark, but a keener passion grips him outward bound:

He came as a Butcher: but gravely declared,
When the ship had been sailing a week,
He could only kill Beavers. The Bell man looked scared,
And was almost too frightened to speak.

The Beaver, another of the crew, takes out insurance.

The Zodiac stabbed Cecilia Shepard in a part of the body vulgarly called the "beaver" with a large-blade weapon. A butcher knife? He wrote that his "killing tools" were "bought out of the state." Normal English would be "out of state." "Bought out of the state" read acrostically is "BOOTS." Boots is the first crew member named in "Snark," and he is described as a "maker of Bonnets and Hoods." Is that why the Zodiac wore a hood at Lake Berryessa?

The Baker, the one they call "Ho!", is the one who encounters the Snark. There is a particular type of Snark called Boojum, and if you meet a Boojum, both you

and it will vanish. From some distance the Baker's shipmates watch him approach his quarry:

"It's a Snark!" was the sound that first came to their ears,
And seemed almost too good to be true.
Then followed a torrent of laughter and cheers:
Then the ominous words "It's a
Boo—"

Halloween card: "BOO." As a literary quotation, it's what you say before you vanish.

WHEN THE ZODIAC went looking for murder victims on July 4, 1969, he wasn't celebrating America's independence. He was commemorating an event that had taken place more than a century before on a sunny riverside in England where an eccentric mathematician from Christ Church College, Oxford, entertained three little girls with an extemporaneous story of incredible wonders in a remote land that existed only in his imagination, like the world of the Red King's Dream. Later, he bestowed this benison on his amiable invention:

And, though the shadow of a sigh
May tremble through the story,
For "happy summer days" gone by,
And vanish'd summer glory—
It shall not touch with breath of bale,
The pleasure of our fairy-tale.

He was horribly wrong. The Jabberwock is alive and well and somewhere in our midst.

Postscript

The preceding "portrait" was just the tip of an iceberg. In supplementary working papers, author George Oakes (a pen name) identified a suspect whose name, birth date, address, and telephone number he believed he had found hidden in the Zodiac clues, along with the suspect's mother's name, birth date, and address—and coded allusions to an Oedipus complex. Receipt of such material is not a daily occurrence at California Magazine. On the chance that the manuscript could contain evidence about some particularly heinous crimes, we immediately turned the material over to the FBI and the state attorney general's office.

We then hired three consultants—a computer scientist, a cartographer, and a mathematician who does code-breaking work for the National Security Agency—to evaluate Oakes's theory. The cartographer discovered discrepancies of measurement on the death clock map but acknowledged that these might be accounted for by the use of nonscientific

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Ecophorize: *v. b.
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ideas or dispositions from a latent or manifested state.* [OED]

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11.00100100001111101101

Gareth Penn

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

More than 5,000 years ago, before the Golden Age of man, Tantalus, son of Zeus, put the gods to a test. He slew his son, Pelops, and served him up as a stew in Mt. Olympus' banquet hall. Only Demeter, who was distracted by grief over the loss of Persephone, ate of the ghastly meal. The other gods saw what Tantalus had done, restored Pelops to life -- with an ivory prosthesis for the eaten shoulder -- and sent Tantalus down to Tartarus for eternal punishment.

Folklore is full of such tests of perspicacity. There are few if any instances in history of such things in real life. A quiz of this nature appears, however, to have been given to the residents of the Bay Area within recent memory, and we all seem to have been as distracted as Demeter. And, to carry the parallel one step farther, the test was just as gruesome -- but without a happy ending for the victims.

A series of murders, beginning in Riverside in October 1966 and continuing in the Bay Area between December 1968 and October 1969, left six people dead and two severely injured. The perpetrator, who identified himself variously as "Z," "The Zodiac," "A Citizen," and "Red Phantom," barraged the press with communications which ranged the full gamut from literate to imbecilic to cryptographic. His modus operandi was never the same. His weapons ranged from pocketknife to 9mm automatic.

The police followed every indication in the Zodiac literature according to the precepts of normal investigative procedure. He appeared to be psychopathic, so they checked the rosters of every mental institution in Northern California for suspects. When he quoted from *The Mikado*, they screened all past and present members of *The Lamplighters*. Because he sometimes identified himself as "the Zodiac," they pored over the circulation records of public libraries to find out who had been reading books on astrology.

It is also standard police practice to suppress evidence, on the theory that it may be valuable for them to know something that only the criminal knows. The bulk of the Zodiac's communications have been suppressed for this reason. Because what he was doing appeared to have no rhyme or reason, some of his hints were never followed up on, being, as the police reasoned, full of sound and fury. Nonetheless, when he apologized for not having written by virtue of having been "swamped out by the rain," the police diligently scoured the countryside looking for flooded basements. I'm not faulting them for not having noticed it, but "by rain" is an anagram for "binary."

What the authorities can be faulted for is taking the Zodiac at his word in the matter of swamping, but not in the matter of the radian. In a communication accompanying an annotated road-map of Contra Costa County, postmarked late in June 1970, he suggested that they would find "something interesting" if they placed a radian angle on Mt. Diablo, a prominent Bay Area landmark.

receipt of this communication and 26 December 1980, no one in the police establishment had even looked up the word "radian" in a dictionary, let alone try the exercise the Zodiac had suggested. The remarkable thing about it, as emerged from my experimentation the day after last Christmas, is that the Zodiac murder-sites in Vallejo and San Francisco line up exactly on the legs of a radian angle whose apex sits on the Vertical Angle Benchmark atop Mt. Diablo. His last known victim, Paul Stine, was a cabby. Stine was hired by the Zodiac to go to a certain intersection in Presidio Heights from downtown San Francisco. I think that, given the murderer's explicit mathematical suggestion, the reason for murdering a cabby is obvious: he needed a victim at a particular location, in order to complete the geometric structure. Cabbies are eminently transportable.

There are a number of implications to be drawn from the Zodiac's choice of sites, weapons, and dates, which, to my mind, can be drawn together into a consistent intellectual structure. A more detailed and extensive discussion is to be found in my pseudonymous article in the November issue of California magazine. For present purposes, it suffices to say that the word "radian" is not commonly found in the vocabulary of imbeciles -- the Zodiac has been described by the San Francisco Police Department as someone who had difficulty graduating from high school -- and that few mass murderers lay out geometric designs on the map.

Of the dozen or so communications from the first Zodiac period (August 1969-March 1971), all but one were postmarked in San Francisco. In the second period, January-July 1974, the pattern is reversed, in one of those contrastive -- and instructive -- juxtapositions. The four 1974 letters were postmarked in this order: South Bay, San Francisco, southern Alameda, Marin. It's a gigantic connect-the-dots puzzle, spelling the letter "Z" on the map. No one has ever noticed this before.

One thing that characterizes the radian is that it is a commonplace in engineering schools; another is that it is defined by the natural number pi. Put succinctly, a radian is a circle divided by 2π . The first written communications from the Zodiac in his Bay Area phase accompanied a cryptogram, divided into three parts, each of which went to a different newspaper. The cover letters threatened a "kill rampage" if the cryptogram was not published on 1 August 1969.

When it was solved, this puzzle turned out to be an illiterate's encamion on the joys of homicide. It ended with a jumble of letters: EEBORIETEMETHHPITI. So much attention was focused on the verbal content that no one thought to treat it as an expression of a number. Having had -- illicit -- access to the secret of the radian, a mathematical expression, I had taken to counting everything in the Zodiac literature. The English text of the August 1969 cryptogram is 390 characters; the anagram is 18. Noting that the radian angle is defined by pi, I was not slow to note also that 3×130 is 390, and that $0.14159\dots \times 130$ is 18.40. . . . Rounding down to the nearest whole number, the Zodiac had subdivided his text into rational (English) and irrational (anagram) parts in the same proportions as the rational and irrational parts of pi.

In my analysis of the Zodiac literature, I assumed -- on the basis of evidence such as the above -- that the author was expressing himself

cryptographic, analysis. The point of a linguistic approach is not to relate elements of the problem to a known language, but to discover repetitive and internally consistent patterns which can be related to external landmarks.

No weight has been given by me to the superficial meaning of the Zodiac's English. Problems have been selected on the basis of criteria such as contrast, emphasis, repetition, misspelling, gross lapses of normal syntax, gibberish, and graphic or syntactic isolation from other contexts. And at every turn, where a facsimile or diplomatic text is available, everything has been counted.

The Zodiac uses a number of devices known since classical times (acrostic, rebus, anagram, etc.). He also employs a reverse-alphabet cipher which I have named the WIZARD alphabet because in a reverse-alphabet cipher, WIZARD comes out as DRAZIW. One communication, the "Halloween Card," contains a graphic illustration of casting out nines. This procedure applies in WIZARD (pairs of matching letters, e.g. A-Z, I-R, P-K, add up to 27, a 9-multiple) in the sense that 27-sum pairs are used as nulls; being divisible by 9, they zero out. Duplicated letters generate numbers, just as they do in chemical notation (or in corporate logos, for instance, 3M for Minnesota Mining & Manufacturing). The most ingenious contribution of the Zodiac to secret writing, however, is a Morse Code-to-binary number transformation which is capable of reducing English to complete ambiguity.

There are a number of other consistent and repetitive patterns in the Zodiac's writings, some alphabetical, some numerical. Read as descriptors, they all fit a particular individual, whom I have identified. A careful reading of that individual's own publications reveals not only the same patterns expressed in the Zodiac literature, but also documents which work like Zodiac documents. To give an oblique -- example, the word TREES expressed in Binary-Morse is 320. It would be an astonishingly unlikely coincidence if Joyce Kilmer's famous poem were composed in exactly 320 words. But documents published under Mr. X's name work exactly that way.

There's even more to it. Mr. X's contemporary photographs show a resemblance to the police-artist sketch on the Zodiac wanted poster. He has a documented expertise with small arms. And in an early publication, he expresses a need to teach people how to recognize patterns expressed in formalistic manner rather than as mere verbal content. The document in question reads like a manifesto for the Zodiac episode.

* * *

The age of the gods is long past. Even the Golden Age has come and gone. It might be appropriate to call this the Eschatological Era. In times like these, we are distracted from careful observation by a multitude of concerns ranging from personal finance to the extinction of the human race. Our children have been butchered and served up as a grisly repast whose nature we have not perceived.

Law-enforcement authorities don't see it that way. While the Zodiac's activity is bizarre even by the standards of psychopathology (cf. Son of Sam, who always shot long-haired girls with a .44), police are not receptive to explanations, no matter how consistent, that attribute a

higher intellectual design to a murderer's conduct. To put it another way, to show intellectual content in what superficially appears to be random and bizarre events is to make them a thousand times more bizarre.

The Zodiac produced one genuine cryptogram; and so his other cryptic-appearing communications have been pored over -- without success -- by a number of cryptanalysts. And when cryptanalysis failed, the messages were dismissed as meaningless. The most important hint from the author, to place a radian on Mt. Diablo, was ignored by the police and withheld from the public.

When I submitted my Zodiac article to the editors of California magazine, I made no claim in the text to being able to read the murderer's Delphic utterances. I did claim to have found repetitive and consistent patterns of the sort shown above. I pleaded for the release of the suppressed documents so that they could be examined by linguists, mathematicians, psychiatrists, and others. The submission was accompanied by a sheaf of analyses, in which the identity of Mr. X was developed.

The magazine's first instinct was to denounce. To justify this grave course of action, they consulted a leading cryptanalyst. He would neither endorse nor discredit my findings, but since he considered the author to be capable of nothing more than "the drivelines of a madman," he found the whole thing "highly improbable." He was forced to modify this opinion when I pointed out to him later that Mr. X's present telephone number spells his initials in Morse Code, which is itself highly improbable -- unless Mr. X requested the telephone number.

In the meantime, the magazine bucked the matter to the FBI and waited for something to happen. Nothing did. Finally, spurred on by news of the telephone number, they decided to go ahead with it, but to cut out the reasoned appeal for the release of documents and to append a disclaimer -- expressly for legal reasons -- in which they would make the claim to having learned Mr. X's identity, then discredit the identification.

I think it's obvious that this story is either worthless, or else it's the story of the century. I urged the editors to expend sufficient resources to do some investigative field work, which would either prove me wrong or else justify further investigation, which might well produce evidence of the sort that would sway a jury. I also think that anyone who knows this background to the story will be as amazed as I am that they tried to steer a course down the middle instead.

I'm satisfied that I know who the Zodiac is and why he did what he did. I'm also satisfied that the Zodiac murders are unique in human history. I don't expect everyone to be confident of my analysis, at least not without closer acquaintance with the entire body of data. But I think that I have made clear in the foregoing that the Zodiac was not what he seemed to be, and that he deserves very meticulous examination by people with abilities that match his. Otherwise, there is no hope that he will ever be brought before the bar of justice.

(Editor's Note: The foregoing is a condensation of Gareth's original article. We will be happy to mail a Xerox copy of his complete 18-page manuscript to any subscriber at cost: \$1 plus a 54¢ SASE.

Letter From Mburg

Warren Fogard

Here's what really happened
when Vernalee's armadillo
stew exploded...

Dear Editor:

How you doing? Keeping your rump cool like the doctor told you? That should be easy -- we hear it's been 75 below zero Farenheit down there and the sun hasn't come up for three weeks. At least that's the word brought in by cousin Elmo: he's tail-gunner on the Safeway truck that brings in the meat. Says it got so cold out there that when he opened up with his 50-caliber machine gun at a carload of alleged hijackers the other day his bullets iced up on their way to the target. Pulled them off course so bad that instead of hitting the alleged hijackers he blew the wig off of a little old lady going in the other direction. She was being taken to prison in the sheriff's new war-surplus Sherman tank for trying to steal something to eat. Yeah, it's a crying shame, but what can we do? Uncle Reagan Golightly, the professional economist who hangs out down at the Bleu Inn Tavern, says we can't afford to have these old scofflaws and amateur grub-bandits eating from the same trough as the rest of us or nobody important will be able to get enough to eat. Instead of dumping no-food-value baby food in foreign countries, he says, we should be dumping it on the old non-producers and maybe they'd go away.

Well, I think that's just wishful thinking on his part. I've got a few non-producers around here I've been dumping trash on for years and they never go away. There's Javot the butler for one. He never does any butling. If I need a dish washed I have to wash it myself while he stomps around in the garden with his feet jammed into ten-quart milk buckets pretending to be a race horse named Handsome Gilbert. Last fall he tried to enter himself in a \$3,000 claimer at Santa Rosa but the officials ran him off. They got wise to him when he put down the Technical Virgin as his jockey. Everybody knows the TV don't ride anything but the Marine Corps and the Greyhound bus. Those things are a part of her job and she believes in the old-fashioned virtue; she works at her job.

Speaking of work, Old Casey, the retired ape who sleeps in the basement, read a report from Herb Caen's rhubarb wine correspondent that complained about the rhubarb being too robust this year. Said it kept blowing up the crocks. Casey was complaining about the raisins being too bland this year, so he washed out his crock and whipped up a batch of jack out of raisins and rhubarb half and half. Well, whatever other faults it may have, it ain't bland. You drink a full jar without stopping and you'll have live steam whistling out your ears. Casey gave old lady Skaggs, who comes on Tuesday to bring the eggs, a jar and she spent the rest of the afternoon out in the boonies running coyotes. She caught three. And ate 'em. Said it was real good exercise, and not a bit fattening.

The Technical Virgin has been gone a month now on her annual Hegira to the southland and we haven't had a phone call or a letter. Hope she's not in jail already. Before she left she told me she was taking up a new line of work for a while, so we wouldn't have to worry about her going to jail. Said that instead of going on maneuvers with the

PS: [redacted] movements from residence
to residence, 1960-1968, form the
exact same figure, a lazy "Z", on
the map of Cambridge. The pattern
ends with his marriage in 1969.

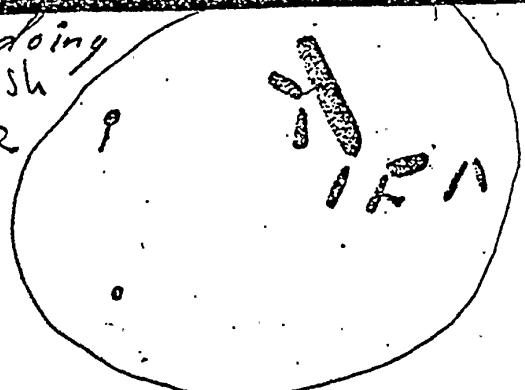
b6
b7C

(2)

suppressed portion of
Z's letter of 29 Jan 74

shortow are but names — empty words
all is new and fair, and when Slin and
the happy hours of childhood, when

California magazine refused to publish
this, because it looks too much like
the monogram MOTT,
when reassembled,

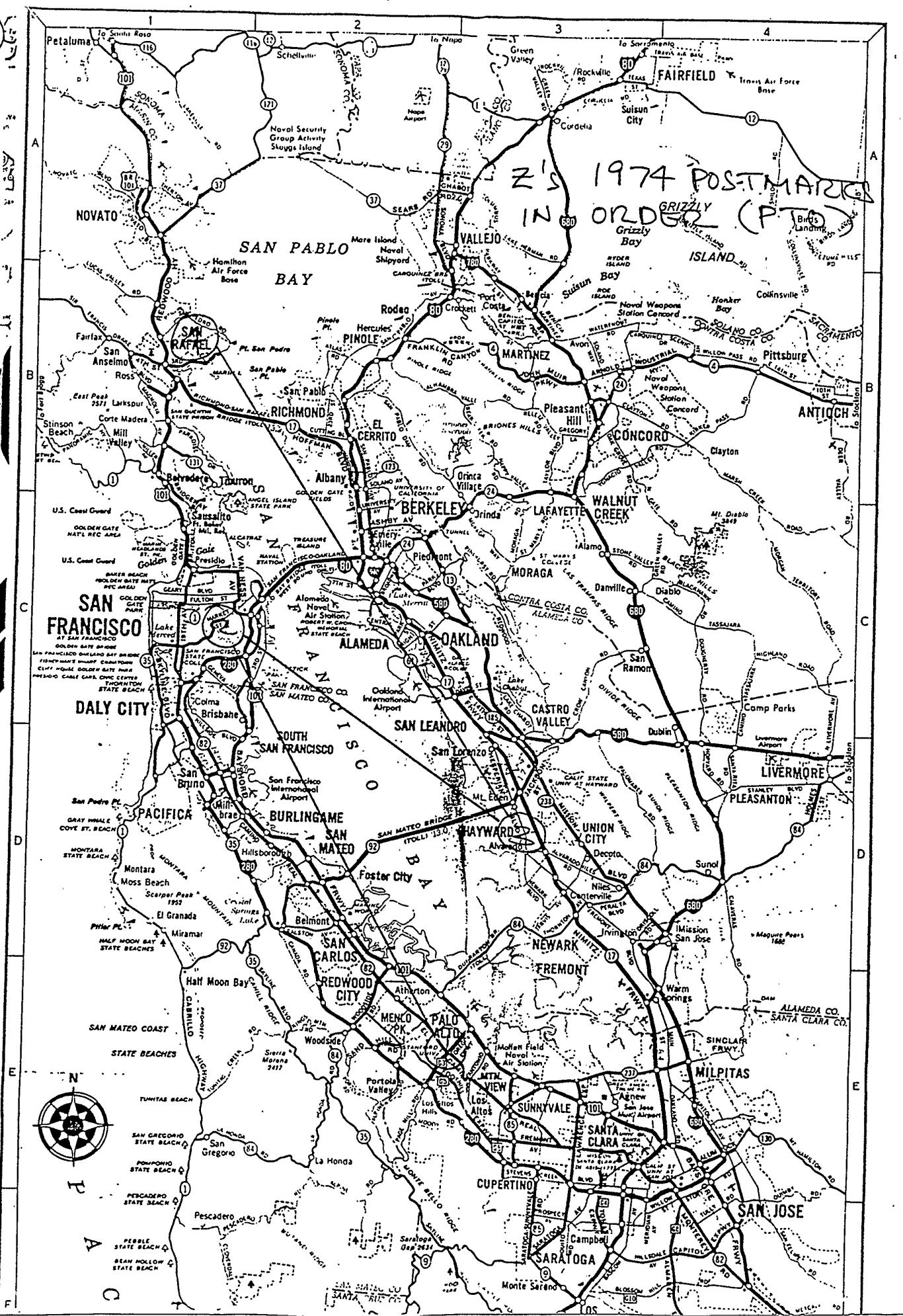


sudden
had no
ping he
ing doi
well.

Either
fell ver
as she i
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First, si
out wh
too darl
at the s
they we



2 NB: features taken from Tenniel's monogram



THE OTHER SHOE

In the California article, I managed to get included -- over obstinate resistance on the part of the editors -- a section concerning the form in which the two large puzzles were composed, the August 1969 cryptogram and the 340-character "cipher". What follows relates that hint to an identification based on an economical choice of materials from the Zodiac literature, i.e., the form of those two puzzles alone.

This sequence of characters appears at the end of the 340-character "cipher":

$\oplus Z O \Delta A I K \exists +$

The first 7 characters are Z.'s most consistently-used signature, the crossed circle, followed by what is inarguably ZODIAC, yet in distorted form. This distortion deserves analysis.

Z. substitutes triangle for D, K for C. The sequence of I and A is inverted. Triangle, read as upper-case delta, which is graphically identical to it, has the same phonetic value as D. Likewise, K has in this context the same phonetic value as C. C is identical in form with another geometric figure, semicircle. The number 9, corresponding in the alphabet to the letter I, ego, is a running theme in the Zodiac literature. The crossed circle sign appears in this puzzle, for instance, 9 times. 3 of the 6 symbols involved in the substitutions here represent 9-multiples in one way or another. Triangle has a sum of angles equal to 180 degrees, 20×9 ; semicircle is also 180 degrees. The letter I, as noted above, is another 9.

There appeared to me to be two classes of symbols involved here, a 9-class and all others. The 9-class includes geometric forms, letters having the same shape as geometric forms (C, L, O, X), and I and R (9 and 18). The preference of one form over another and the inversion of I and A in a familiar word argues for a binary code, in which the choice of class for each position is dictated by the underlying text. Thus, Z. can spell out a cartouche -- to speak with Champollion -- but its form is distorted. The choice of symbol is indifferent in each position, as long as it belongs to the appropriate class out of a field of two. If the text is meaningless, then Z. could have spelled ZODIAC correctly; he could have, moreover, brought this signature right up to the end of the text, instead of tacking on two more symbols.

I tested this sequence as a binary expression, using 1 for 9-class symbols, 0 for all other. It reads: 101101001. Dividing it after the 5th character, it spells a Zodiac artifact, the sequence of weapons used at Lake Herman Road and Blue Rock Springs: 22 before 9 (10110 is 22, 1001 is 9).

I substituted 1 for all 9-class symbols, 0 for all others. The first thing to emerge, characters 1-13, was a sequence identical in form to the first 13 digits to the right of the decimal point in the binary writing of the natural number pi:

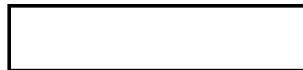
0010010000111

Then, in line 7:

110010101100111

This sequence is identical in form with the word MIKADO. Z. quoted extensively from the Gilbert & Sullivan operetta of that title (the letters of 20 July 1970 and 29 January 1974).

There are several passages in the 340-character "cipher" in which a binary number-sequence begins with a character whose number (reading from top to bottom, left to right) is the same. In other words, it appears that Z. is expressing number in a variety of different ways, including graphically. Here, the group spelling MIKADO begins with character 104. The sequence with which MIKADO ends, -1100111, is binary 103. The remainder, 11001010, is bracketed, then, by the number 103 expressed in two different forms: as a number of cipher-symbols, and as a digital expression. That sequence can be read, in Morse Code, as follows:



b6
b7C

As I have pointed out elsewhere, the August 1969 cipher is modeled on the number 130pi. Its 390 characters of English correspond to 130x3, its 18 letters of anagram to 130x0.14159. . . . The anagram reads, EBEORIETEMETHHPITI. Other Zodiac puzzles yield consistent and intelligible results when duplications are treated algebraically (e.g., $x+x+x = 3x$) or as chemical notation (e.g., the schematic HOH, quantitative H₂O). Numbers generated by such duplications become part of the text.

E B E O R I E T E M E T H H P I T I

E5 B O R I3 T3 M H2 P

$$5+3+3+2 = 13$$

13 E B O R I T M H P

Z. consistently uses MT for zero. Zero is the "empty" number (our word "zero" derives from Arabic sifr, whose concrete meaning is "empty"), and in Morse Code, MT is the same sequence of characters as the letter 0. It works, like so much else, two different ways.

Taking the text of the anagram as developed above, here is what I believe to be an ironclad mathematical proof:

13MT PI is the form of the cryptogram.

Of the remaining letters, the sequence BER in Morse, 10000010, is identical with the binary number 130.

13MT PI equals BER OH.

"OH" is attested by numerous readings elsewhere in the literature. 13MT equals 130 and BER equals 130. Therefore, BER equals 13MT. It follows from that that PI equals OH. How?

Let's go back to the first 13 characters of the 340-character "cipher", [redacted]. Why did Z. stop at 13? Without too much more trouble, he could have filled out the line of 17 characters. Given enough time and dedication, he could have carried pi out to 340 places. Let's read these 13 characters in Morse:



It spells the name [redacted] in reverse. Z.'s graphic quote from the White Rabbit illustration accompanying the chapter, "Down the Rabbit-Hole". can easily be read as an oblique way of saying the same thing: [redacted] Moreover, when the three pen-stroke groups from the 29 January 1974 ("Exorcist") letter are reassembled, they form a figure very closely approximating the monogram, [redacted]

b6
b7C

Both of these large puzzles are composed in a format of 17 characters to the line. In the August cipher, Z. used 7 symbols for the letter E, and several symbols each for the more frequently-used letters in English. M is about halfway down the frequency-table, and it is represented in this cipher by the most frequently-used symbol, Q. Even the newspapers commented on the discrepancy at the time, but nobody thought to note that the number corresponding to Q, 17, could be correlated to the form of the cipher itself, i.e., 17 letters to the line. 17 is implied in numerous other ways in the literature, as in the phrase, "Fk, I'm crackproof" (Hole Card, 6 October 1970): F is 6, K is 11, their sum is 17. The only place in which the number is explicitly written as "17", is in the letter to the LA Times, the first and only letter Z. wrote to any recipient outside the Bay Area (excluding the three Riverside documents, 1966-1967).

The two large puzzles were apparently laid out on graph paper, then copied. The lines are straight across, the columns straight up and down. They form rectangles. Among the cognoscenti, the second one is known as the "340-character cipher". This is because it is composed in 340 characters: res ipsa loquitur. Yet it is a

safe bet that no one has ever sat down and jabbed his finger at each and every symbol, counting them up. The method of counting is suggested by the form: multiplication. 20 lines times 17 columns: 340. The number of lines in the August cipher is different, 24, but the multiplier is the same: times 17. Do you get it? 24 times 17? 20 times 17? Los Angeles Times 17? What these three things all have in common is the implied phrase, TIMES 17. Here it is in Binary-Morse:

T	I	M	E	S	17
1	00	11	0	000	10001

10011000010001: 9745.

There is a real-life [redacted] She celebrated her 38th birthday day on [redacted] She has a son named [redacted] [redacted] monogram: [redacted] an engineer by training, constructs engineering models on a scale of 130:1. That comes out in an article he published in [redacted] title: [redacted]. The word TOWER read in Binary-Morse is the number 1970. Curiously, the word-count of the article in question is exactly 1970 words. On the date of the Berryessa murder, [redacted] in days was 9745. What is it about the 38th birthday? And did you notice that the first sentence of the August cipher is written in 38 letters?

On her 38th birthday, [redacted] was 13,880 days of age. 13 is [redacted], her son's monogram. A simplified form of that monogram, [redacted] appears in [redacted] present telephone number, [redacted]. Here it is in binary notation:

b6
b7C

[redacted]
That can be read as [redacted]. The sum of M(13), H(8), and O(15) is 36. 36x10 is 360, a paraphrase for circle (another running theme in the literature -- and in [redacted] published art-work, which is composed of circles and segments of circles in various media). 6266, read as a rebus, "62 left of 66", gives the date of the first Zodiac murder, 30 October 1966, on which date there were 62 days left of the year. Let us go on counting the days.

[redacted] by itself is 110000111, base-10 391. A simple IQ test using this number -- let's say, 782 (391x2) - 195.5 (391/2), find the missing number (391) -- corresponds exactly to the dates of the following murders. Counting from Riverside, Lake Herman Road falls on Day 782; counting over again, Blue Rock Springs falls on Day 196 (rounded up from 195.5). This missing-number technique occurs elsewhere in the Zodiac literature.

This hardly exhausts the evidence. A full presentation would require about 30 pp. single-space. But I think that the above

indicates, with considerable economy of data, that the case is quite substantial. It also indicates the ingenuity of the murderer in concealing information in form itself. The text of the August cipher says nothing worth knowing -- in English; but in its graphic form, it speaks volumes.

Back in 1964, [REDACTED] whose mother, [REDACTED], is a prominent sculptor, published an article in a student publication, of which he was editor. The publication was titled, [REDACTED]. The article, [REDACTED], had to do with visual-arts education at Harvard. The author expressed interest in a new form of art which he called "meta-writing" -- writing whose graphic form transcends the verbal content of the text [REDACTED]. [REDACTED] The two puzzles examined here appear to be quintessential examples of this form of art.

b6
b7C

xxx

(Letter received 3/29/82 as a result of [redacted]
Telephone conversation w/ [redacted] on 17 March 25th - [redacted]
asked him to send handwriting samples)

[Redacted]
[Redacted] (4/1/82)
Handwriting

26 March 1982

Dear [redacted]

Enclosed is a photocopy of a [redacted] document and some Zodiac handwriting as well, just in case you should find a match among the letters you have been receiving.

Something you should bear in mind is that it took two years for the connection between the Bay Area killings and the Riverside murder to be made, and that connection was made on the basis of handwriting identification.

Another point I want to discuss at greater length is my contacts with [redacted]

b6
b7C

I first contacted him after being frustrated in my attempts to get through to the police. They were electrified by the radian-angle business, which they had never checked themselves, but didn't want to go any farther. I sent him, in the first communication, a poem about the Revolutionary War, a business card from Sheriff's Captain [redacted], one of the original investigators of the Zodiac murders. [redacted] was quoted often enough in the papers to be known to the Zodiac by name. I figured that if I was wrong and you-know-who was, let's say, intrigued by a few cryptic communications, he would contact [redacted] to find out why he was getting them. [redacted] knew that I had connected the name [redacted] with the Zodiac; he would, I thought, then call me and chew me out for my indiscretion. Then I would know that I was wrong. While [redacted] contacted the FBI, he never called or wrote to [redacted].

I also gave him the name of an Oakland Tribune reporter with whom I had discussed the matter as a channel of communication. He was also not contacted.

The substance of [redacted] complaint was the receipt of a number of funny postcards, which I composed in such a way that I thought that only Z. could make any sense of them, and which would at most annoy an innocent man and cause him to find out through the suggested channels. My impression is that he wanted to use the FBI for two purposes: a) to find out who I was and satisfy his curiosity; and b) to intimidate me into cutting it out. He could have sued me. He never did.

[redacted] My attorney, who, by the way, is just as convinced as I am that [redacted] is the Zodiac, has been wagging his finger at me ever since and telling me he could sue me or kill me. I keep trying to tell him that he can't do both. You can't sue a dead man.

I think that the quality of my communications back then (this is up to mid-May of last year) were such -- my state of knowledge being quite imperfect -- that he sensed that I couldn't make much of a case with the authorities. My presentation, let's say, was poor. At that point, intimidation combined with frustration would probably have the effect of making me divert my energies elsewhere.

When I first contacted him, I did so in the (I now realize, mistaken) belief that he might have some project in store for his 38th year. He had just turned 38 when I got onto him. I thought that if he knew there was somebody looking over his shoulder, he would abstain. What I found out was that by being, as I think you put it, incredibly brazen, he could bluff me out. He's extremely intelligent, a lot smarter than I am. I hope that I will prove to be more tenacious.

In any case, I did not want to do anything to muddy the waters concerning Joan's disappearance. I confess that I was itching to do it -- sometimes I feel like flying back there and confronting him face to face -- but I couldn't. As far as the other crimes are concerned, all I had proven by writing him was that he could outmaneuver me. So it was pointless to try it again, in any case. I couldn't resist the urge to twit him about his new phone number, though, which is when he lied to me about that tower. It never went beyond the "I must have the wrong number" stage. I'm ■ trying to reassure you -- and I feel that you deserve the reassurance -- that I did not tease him with any cues about the matter that affects you.

b6
b7C

Re brazenness. When I talked to the FBI, I gave them 001001-0000111 as ERAHO in Morse Code -- which fits. I didn't realize, then, and they didn't recognize it, either, as being pi carried out to 13 places. He's dealing with subtleties on a level that are so difficult for us mere mortals to grasp that he's drunk on his own ego. He can't do wrong. I didn't include in the material I sent to you readings that come out as XP (Jesus), ME GOD, and the like more, oh, yeah, TITAN. I think that somebody with that kind of mentality -- and I say this after extensive consultation with a forensic psychiatrist -- could be as brazen as you suggest. I didn't have his handwriting, I didn't have his fingerprints. I'll keep you up to date on the handwriting-sample situation.

PS: I wrote the above ~~wright~~ after talking to you on the phone. Now it's this morning, and I have some afterthoughts about what I should have said but didn't.

I want to stress that my correspondence with [redacted] was over almost a year ago. The phone call I mentioned is the only contact since.

His complaint doesn't prove a thing, either way, as I realized after learning of it. If he had just remained silent, it would have been an admission of guilt. By protesting, he gave the impression of innocence. In other words, the only course he could follow was to do what he did, guilty or innocent. So it's inconclusive.

I just now talked on the phone to the investigator in Boston. He's taken the handwriting sample to two experts. They think it's him, off the record, but they don't like block printing, and they want a whole lot more before they will give a conclusive opinion.

I also should have asked you a couple of questions.

1) UPI said that \$100 was missing from Joan's wallet. How do you know that? The explanation that occurs to me is that you had just given her the money, I assume a large-denomination bill. Was it a \$100 bill? It would not be inconsistent with the Zodiac's system of expressing number to take something whose loss would be obvious and thus express the number 100. 100 is Binary-Morse for [redacted] The Zodiac spelled "dangerous" in the cryptogram as DADGERTUE. The D's were given with his crossed-circle sign. The first D is character #100, [redacted]. Note that the word DADGERTUE begins with DAD and ends with the letters needed to make [redacted]

b6
b7C

2) The other question is more of a request. I'd like to ask you to think about sending me photocopies of the letters you have received in response to your reward-announcement. The Zodiac wrote to the father of his first victim, Joseph Bates; and it was not established until three years later that the murderer had written it. I'm not a handwriting expert, but I know stylistic analysis inside-out, and I know the Zodiac's writing style well enough to recognize it a mile off. What you have received is probably worthless, but it's a base you might want to cover. Again, there's no warranty on the product, but I might spot something useable.

HANDWRITING

I'm not a handwriting expert, but there are a few objective points about both Z.'s handwriting and [redacted] that stand out.

Look at the G's. Every other letter in the marriage-license application is upper-case. Only G is different. The G's in "Eugene", "Cambridge", and "Irvington", look more like S than G. It's a relaxed, flowing, slovenly letter.

b6
b7C

Now look at the G in "Margoulies". It's a flattened loop, open at the top, straight, severe, slanting ~~back~~ downstroke. If you look at the enlargement, you will see that he added two short horizontal strokes, one to close off the top of the loop, the other to add a curlicue to the end of the downstroke. Neither matches up to the ends of adjoining strokes, which indicates that they were added after he had lifted pen from paper.

Now look at "doing", the last word in the Exorcist Letter. The G is exactly the same kind as in "Margoulies". Turn to the LA Times Letter: "finding", "something", both end in G's that look more like S than G.

I may just be provincial. But I have never seen anyone make either G just like these. And I certainly can't imagine the same person making both. But both the Zodiac and [redacted] make both. That's the most striking correspondence.

The A in the signature, [redacted], closely resembles the Zodiac's lower-case A's. The S's in both hands begin and end with strokes that are about 45 degrees out of horizontal, with a sharp kink at one of the bends. The C's have a 45-degree angle at the top and a near-point at the bottom left. The Y's are drawn with two strokes, the smaller one being just about exactly perpendicular to the longer one. Capital M in both hands tends to have two vertical strokes joined by a curving loop very steep toward the left-hand side, sloping gradually to the right.

That's about it as far as my handwriting-analysis goes. Those, I think, are fairly obvious points. The G is particularly striking. Again, I don't think this much is enough for a warrant, but what there is there confirms my belief that I have the right man.

LA Times Letter

This is the Zodiac speaking
like I have always said
I'm crack proof. If the
Blue Meanies are ever
going to catch me, they had
best get off their fat asses
& do something. Because the
longer they fiddle & fail
around, the more slaves
I will collect for my after
credit. I do have to give them
my river side standing across
they are only activity, but
easy ones, those are a hell
of a lot more fun there.
The reason that I'm writing
to the Times is this, They
like some of the others best pieces
SFPD - O

Exorcist Letter

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 wave
and an echo arose from
the suicides grave
tit willo tit willo
tit willo

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

X
IRIN

Mc - 37

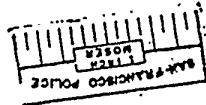
SFPD - O

JAN 24.

Bus Bomb Letter

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 @ U N A M



I am mildly curious 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 wouldn't do to
move in on someone else's territory.
But there is more glory in killing
a cop than a kid because a cop
can shoot back. I have killed
ten people so date. It would
have been a lot more except
that my bus bomb was a dud.
I was swamped out by the
rain we had a while back.

April 1970

*Copy excluding Bus Bomb
piece sent to*

17c Ewan

14raphy

Long

1 April 1982

Dear [redacted]

I talked to your wife on the phone yesterday, and I'm enclosing a photocopy of the second handwriting sample. I think you will see obvious close similarities between it and Z.'s style. Note, for instance, the "d" in "Cambridge" and the one in "doing" (Exorcist Letter).

Both handwriting samples went yesterday to the analyst in Sacramento who made the connection between the Riverside and Bay Area murders. If he says there is even a high order of probability that both [redacted] writing and Z.'s writing came from the same hand, that constitutes probable cause -- which is enough for an arrest warrant. It should also be noted that our Attorney General is running for Governor and couldn't pass up an opportunity to make a big score before the election in November. (He doesn't have much else to offer.)

b6
b7C

The first sample, the marriage-license application, was looked over by two experts, one in Boston, one here in the Bay Area. Both said that handwriting experts like block printing the way they like having double pneumonia. That style of writing is the least individual of all. But they also said, unofficially, that although they would not sign an opinion to the effect, because of the paucity of data in a block-printing sample, they both think [redacted] is Z. anyway. Both were eager to see more handwriting, so they could come to a definitive opinion one way or the other.

That's not much help & to you now, but if things fall out the right way, it may be of some help in the future. Again, if you feel that there is anything I can do to help out, feel free.

Yours,



PS: I've just talked to you on the phone. What [redacted] didn't tell you was the fact that he stopped speaking to me right after I signed with a movie-producer named [redacted]. [redacted] had been planning, it turns out, his own feature film on the subject, which he found more interesting than investigative field work. He had already written up a "treatment" of the screenplay and approached Columbia Pictures, thinking that he had me in the palm of his hand. He didn't. His picture, incidentally, was going to concentrate on [redacted] disappearance -- and he had written you in. I'd take anything he says with a grain of salt, if I were you.

letter sent a fly
1666 Bates Willing

THE CONFESSION

BY _____

SHE WAS YOUNG AND BEAUTIFUL. BUT NOW SHE IS BATTERED AND DEAD. SHE IS NOT THE FIRST AND SHE WILL NOT BE THE LAST. I LAY AWAKE NIGHTS THINKING ABOUT MY NEXT VICTIM. MAYBE SHE WILL BE THE BEAUTIFUL BLOND THAT BABYSITS NEAR THE LITTLE STORE AND WALKS DOWN THE DARK ALLEY EACH EVENING ABOUT SEVEN. OR MAYBE SHE WILL BE THE SHAPELY BLUE EYED BROWNNETT THAT SAID NO WHEN I ASKED HER FOR A DATE IN HIGH SCHOOL. BUT MAYBE IT WILL NOT BE EITHER. BUT I SHALL CUT OFF HER FEMALE PARTS AND DEPOSIT THEM FOR THE WHOLE CITY TO SEE. SO DON'T MAKE IT TO EASY FOR ME. KEEP YOUR SISTERS, DAUGHTERS, AND WIVES OFF THE STREETS AND ALLEYS. MISS BATES WAS STUPID. SHE WENT TO THE SLAUGHTER LIKE A LAMB. SHE DID NOT PUT UP A STRUGGLE. BUT I DID. IT WAS A BALL. I FIRST PULLED THE MIDDLE WIRE FROM THE DISTRIBUTOR. THEN I WAITED FOR HER IN THE LIBRARY AND FOLLOWED HER OUT AFTER ABOUT TWO MINUTES. THE BATTERY MUST HAVE BEEN ABOUT DEAD BY THEN I THEN OFFERED TO HELP. SHE WAS THEN VERY WILLING TO TALK WITH ME. I TOLD HER THAT MY CAR WAS DOWN THE STREET AND THAT I WOULD GIVE HER A LIFT HOME. WHEN WE WERE AWAY FROM THE LIBRARY WALKING, I SAID IT WAS ABOUT TIME. SHE ASKED ME "ABOUT TIME FOR WHAT". I SAID IT WAS ABOUT TIME FOR HER TO DIE. I GRABBED HER AROUND THE NECK WITH MY HAND OVER HER MOUTH AND MY OTHER HAND WITH A SMALL KNIFE AT HER THROAT. SHE WENT VERY WILLINGLY. HER BREAST FELT VERY WARM AND FIRM UNDER MY HANDS, BUT ONLY ONE THING WAS ON MY MIND. MAKING HER PAY FOR THE BRUSH OFFS THAT SHE HAD GIVEN ME DURING THE YEARS PRIOR. SHE DIED HARD. SHE SQUIRMED AND SHOOK AS I CHOAKED HER, AND HER LIPS TWITCHED. SHE LET OUT A SCREAM AND I KICKED HER HEAD TO SHUT HER UP. I PLUNGED THE KNIFE INTO HER AND IT BROKE. I THEN FINISHED THE JOB BY CUTTING HER THROAT. I AM NOT SICK. I AM INSANE. BUT THAT WILL NOT STOP THE GAME. THIS LETTER SHOULD BE PUBLISHED FOR ALL TO READ IT. IT JUST MIGHT SAVE THAT GIRL IN THE ALLEY. BUT THAT'S UP TO YOU. IT WILL BE ON YOUR CONSCIENCE. NOT MINE. YES I DID MAKE THAT CALL TO YOU ALSO. IT WAS JUST A WARNING. BEWARE...I AM STALKING YOUR GIRLS NOW.

CC. CHIEF OF POLICE
ENTERPRISE

1623 letters : binary
Morse



b6
b7c

BUS BOMB

The Bus Bomb Diagram is perhaps the most eloquent proof of the Zodiac's ability to hide his great intellect behind the façade of imbecility, as I will demonstrate.

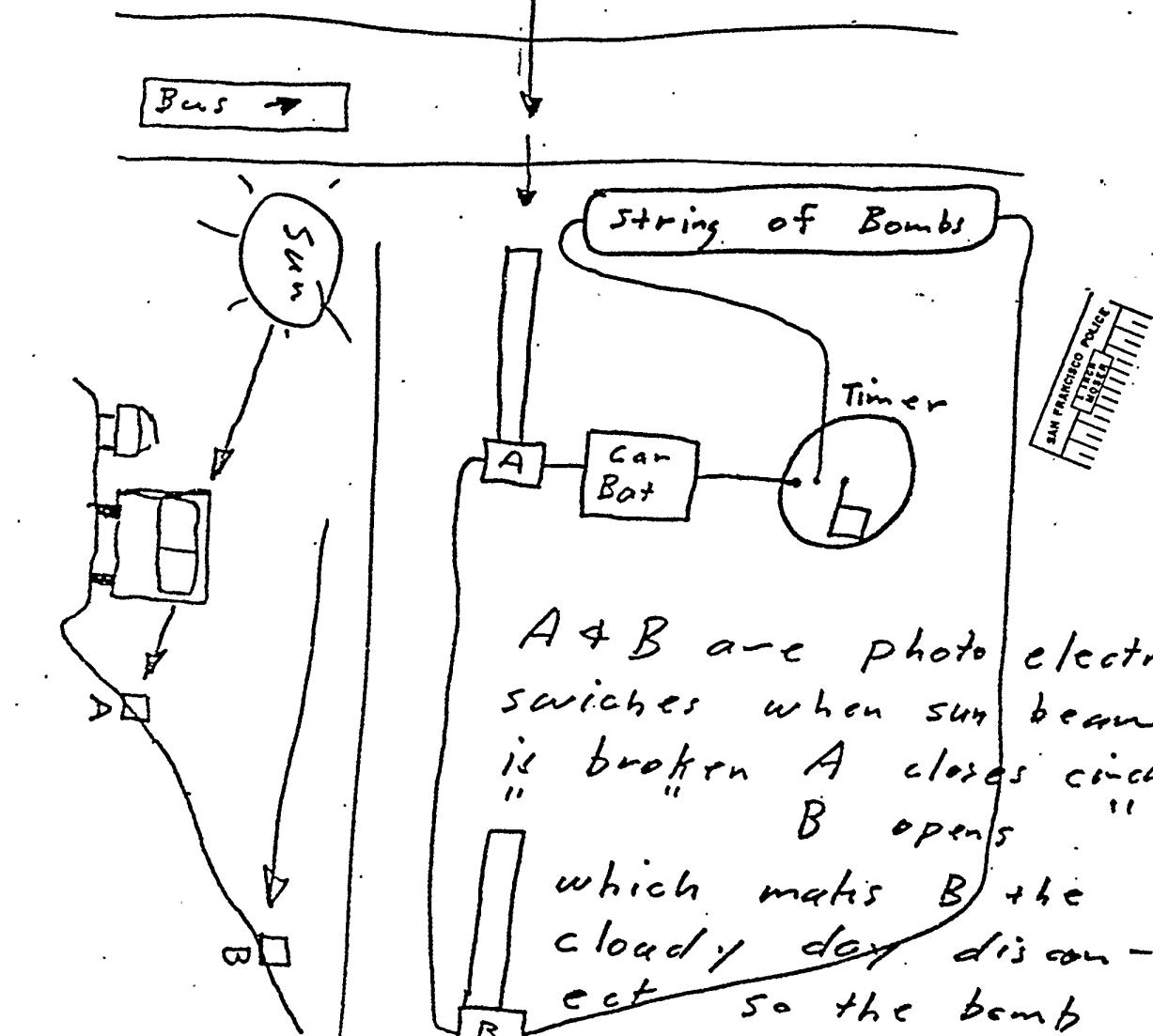
First off, look at the diagram (next page). If I asked you to characterize the author's technical competence based on the way he drew it, you would probably say he has the competence of a dull 12-year-old. A close inspection of the details of the triggering-device shows that it is a hoax; the apparatus depicted here just won't work. For instance, if the bombs are to be set off by photoelectric "switches", why does it also need a "Tim er"? (Note the spread between "Tim" and "er")

Let's take first the implied claim that he has killed ten people. Here is the crossed-circle sign, followed by an equals-sign, then a "10". Historically, there is no reason to believe that the Zodiac killed 10 people. We know he killed 6 for sure. Like his other box-scores, it does not actually claim 10 victims. It just says that the crossed-circle equals 10. Now let your eye follow the equals-sign; extend it to the left, and it points at the place on the circle where Z. began and ended the figure -- the ends don't quite match up. The distance between the center of the circle, shown by the intersection of the horizontal and vertical lines, and the beginning-point of the circle, is 10 mm. If you check my work by measuring on this copy of the SFPD photo, you have to multiply by 16/15; SFPD reduced the picture to 15/16 original size. (See inch-scale)

When we examine statements made by the Zodiac, we have to try to match them to reality. To read this statement as saying that he has killed 10 people when there is no reason to think so is to say either that he knows something we don't know, or else he is so loony as to be completely incompetent. The analysis of the diagram which follows will demonstrate that he is far from incompetent. At all events, given a choice between believing what is a false statement, or at least an improbable one -- that he has killed 10 times -- and believing what is objectively measurable -- that the radius of his circle is 10 mm., which it in fact is, I believe that we must take what is demonstrable and measurable as the truth of the statement. The circle has a radius of 10 mm. He has told us in some degree how to read the diagram. Dimensions are expressed in millimeters.

The new bomb is set up like this

Sun light = in early morning



PS I hope you have fun trying to figure out who I killed

~~10mm~~ = 10 SFPD = 0

APRIL 1990

BUS BOMB (2)

Now look at the crossed-circle signature. The cross is catty-wampus. If you take a straightedge and extend the vertical line upwards, it matches up with the long edge of the figure inscribed in the "Tim er". Extending the horizontal line with a straight-edge to the right, the same thing happens: it passes exactly through the center of the "O" in "SFPD O". Now we have three circles joined center-to-center by straight lines. (See next page)

There are two other circles in the diagram, the suns. I found the centers of these circles by drawing long and short axes through them. The lines from the centers of the two suns and the center of the "Tim er" are exactly 95 mm. each. It seems strange that in a drawing that has the appearance of having been dashed off by an imbecile, that he should just happen to have hit exactly on 95 mm. by freehand-drawing.

I brought out in the California article that the word TIME in Morse Code has the same form as the number 38, which is a standing theme in the Zodiac literature. The "Tim er" is the apex of an angle formed by the sun-timer-sun lines which comes out to exactly 38 degrees.

Sun-timer-crossed-circle: 130 degrees. 130 was the multiplier used by the Zodiac in the construction of the August 1969 cryptogram. 390 letters of English, 18 of anagram: 3×130 and 0.14159×130 .

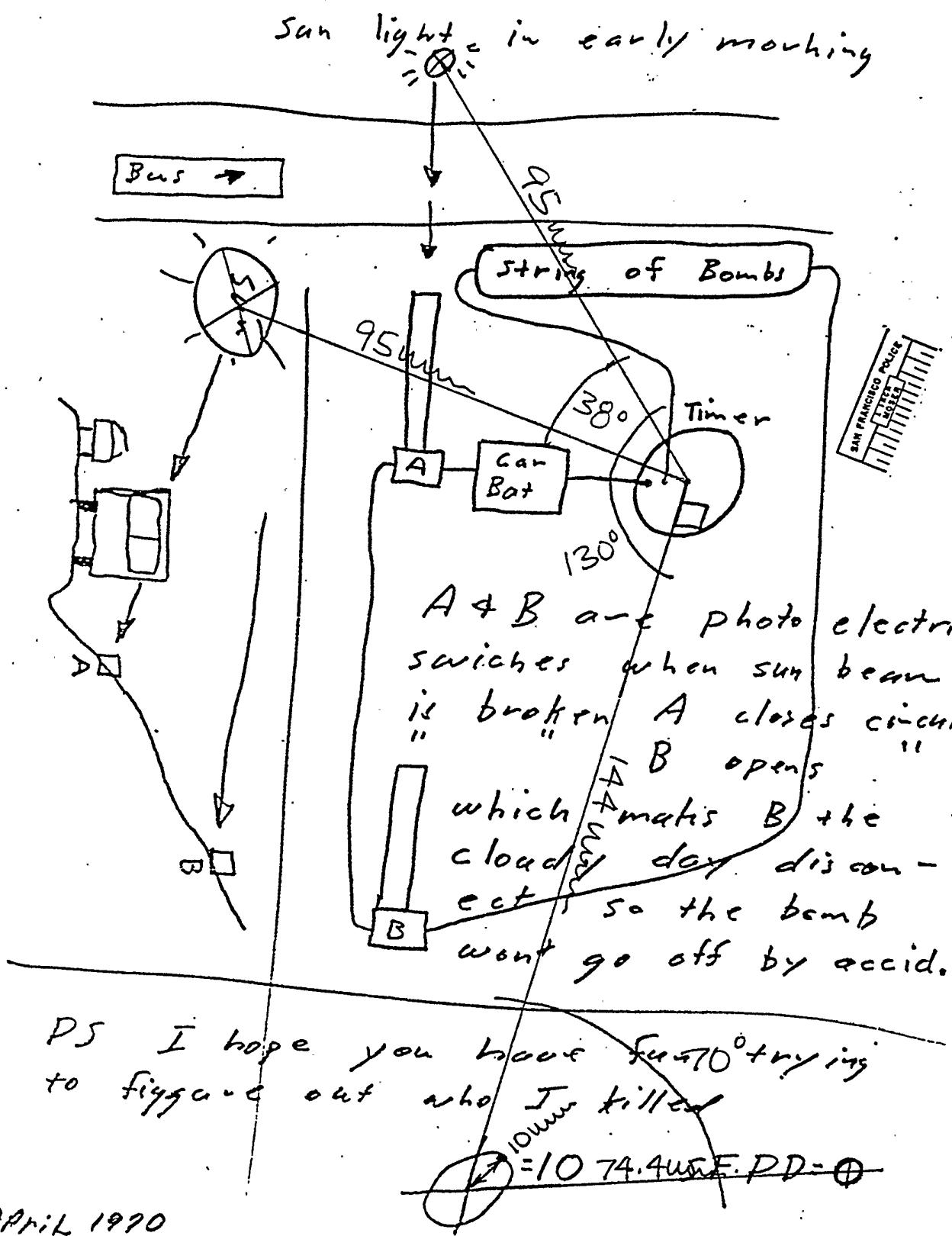
Now let's add up the dimensions of this figure. The two 95 mm. lines are 190 together. The timer-crossed-circle line is 144 mm. The crossed-circle to what I make to be the center of the "O" in "SFPD O" is 74.4 mm. 190 plus 144 plus 74.4 is 408.4. 408.4 is 130 x pi.

The timer-crossed-circle-"O" angle is 70 degrees. 70 in binary is 1000110. I read this as BM 2 (B is 1000, M is 11, the final 0 multiplies by 2).

There are two suns. The base number in binary is 2. On p. 1 of this letter, Z. says he was "swamped out by the rain." BY RAIN is an anagram for BINARY. He says on the diagram that "switch" B is supposed to keep the bomb from going off by "accid". Using the technique of number-generation which produces consistent results in all Zodiac puzzles, ACCID gives us ACID 2. It appears to imply its chemical antonym, BASE 2. Binary numbers are base-2.

Now let's go back to the two sun-timer lines. They are each 95 mm. long. 95 in binary notation is 1011111, identical in form with the Morse word 1 011 111, TWO.

The new bomb is set up like this



APRIL 1970

BUS BOMB (3)

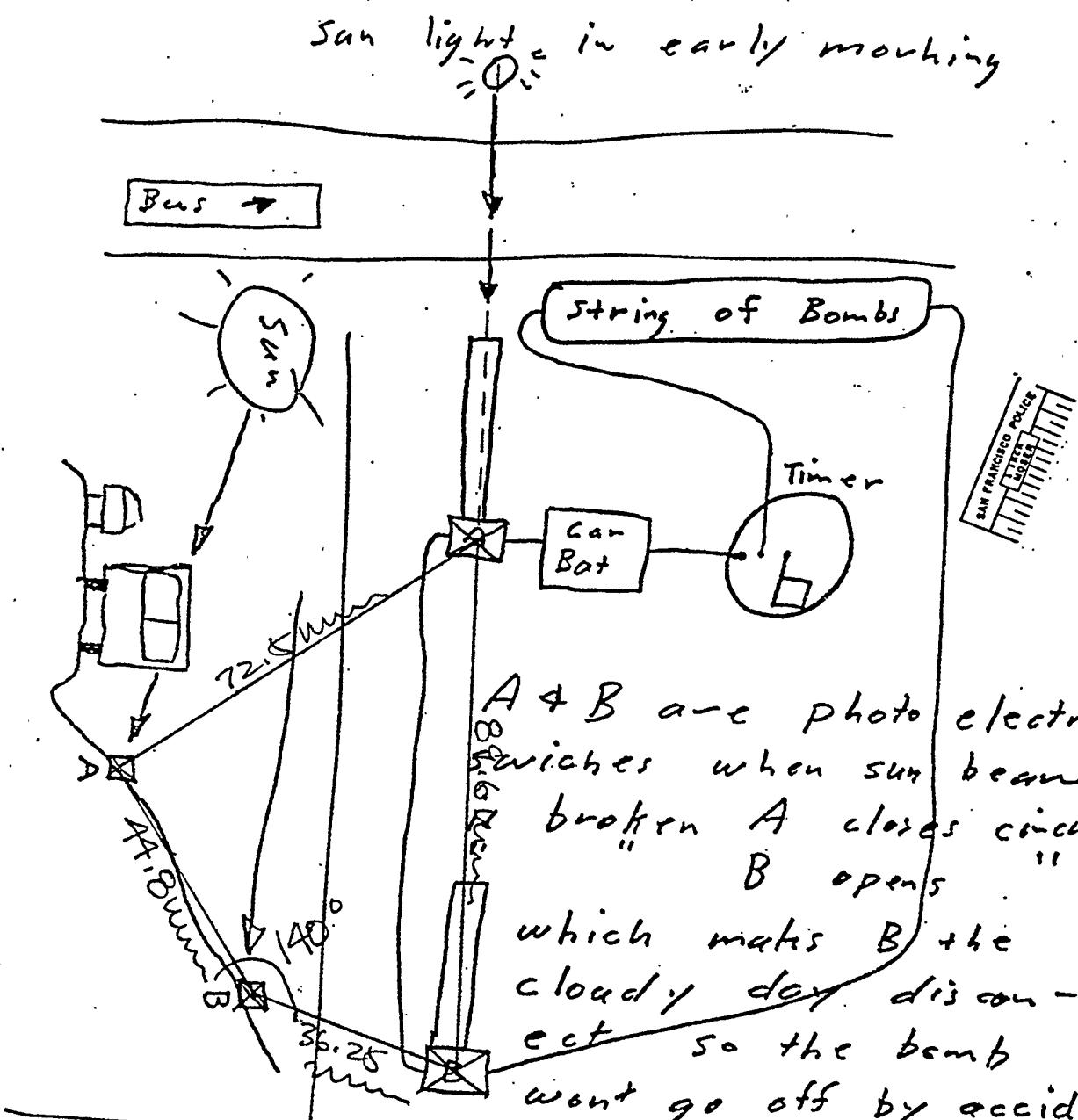
In real life, photoelectric switches are supposed to be lined up exactly with a particular light source. They are constructed in such a way as to exclude light from extraneous sources. I found the centers of the boxes representing the "swiches" here by drawing diagonals through them. I noticed that when I extended the line joining the pair in the top view toward the top of the page, it passed directly through the center of the sun -- the light-source -- in that same view.

At this point, I suggest that you take a pencil and a sheet of paper. Draw, freehand, three smallish boxes about 3 inches apart. Strike diagonals in them to find the centers. Take a straightedge and see if all three centers are on the same line. Try to make them come out that way. I have found that I can do it, but that it takes a great deal of concentration. Otherwise, it takes a straightedge to make sure. Again, this is an element of graphic design which argues very powerfully for conscious composition; it does not fit the picture of the imbecilic 12-year-old just tossing off a sketch in as sloppy a fashion as it appears superficially to have been done.

I joined all four "swiches" together, center-to-center, with even more astonishing results. The figure formed is an irregular 4-sided polygon. The two shorter sides are opposed by longer sides each of which is exactly twice the length of the shorter opposing side: 36.25 and 72.5 mm., 44.8 and 89.6 mm. Again, the modular number, as in all binary expressions, is two. The sum of the two shorter sides is 81 mm., the square of 9. All four sides come to 243, 9x27. Again, to suggest that this is the work of a moron is preposterous. Results like this can have been achieved only by very careful draftsmanship.

The angle formed by the two shorter legs is 140 degrees. 140 is binary 10001100, identical in form with Morse 1000 11 00, BM I. I believe that this is meant to be read as an equation, "BM (is) I."

The new bomb is set up like
this



PS I hope you have fun trying
to figure out who I killed

~~\$~~=10 SF PD=0

April 1970

BUS BOMB (4)

In the foregoing analyses, I have connected like to like, circles to circles, photoelectric "swiches" to photoelectric "swiches". I think that the element of design and meticulous draftsmanship underlying our idiot's sketch has been abundantly documented. It follows from that that nothing in the drawing is there without purpose. But there are two buses (two likes) and a car and car battery (likes in sharing the word "car" in their descriptors). The STRING OF BOMBS stands out all on its own.

The phrase looks suspicious. I am going to use the WIZARD-alphabet to construct a number from it.

S T R I N G O F B O M B S
S T R I N G O F B M 6 (S, O, and B are doublets)
S - - - - O F B - 6 (T-G, R-I, N-M are nulls)
H L U Y 6

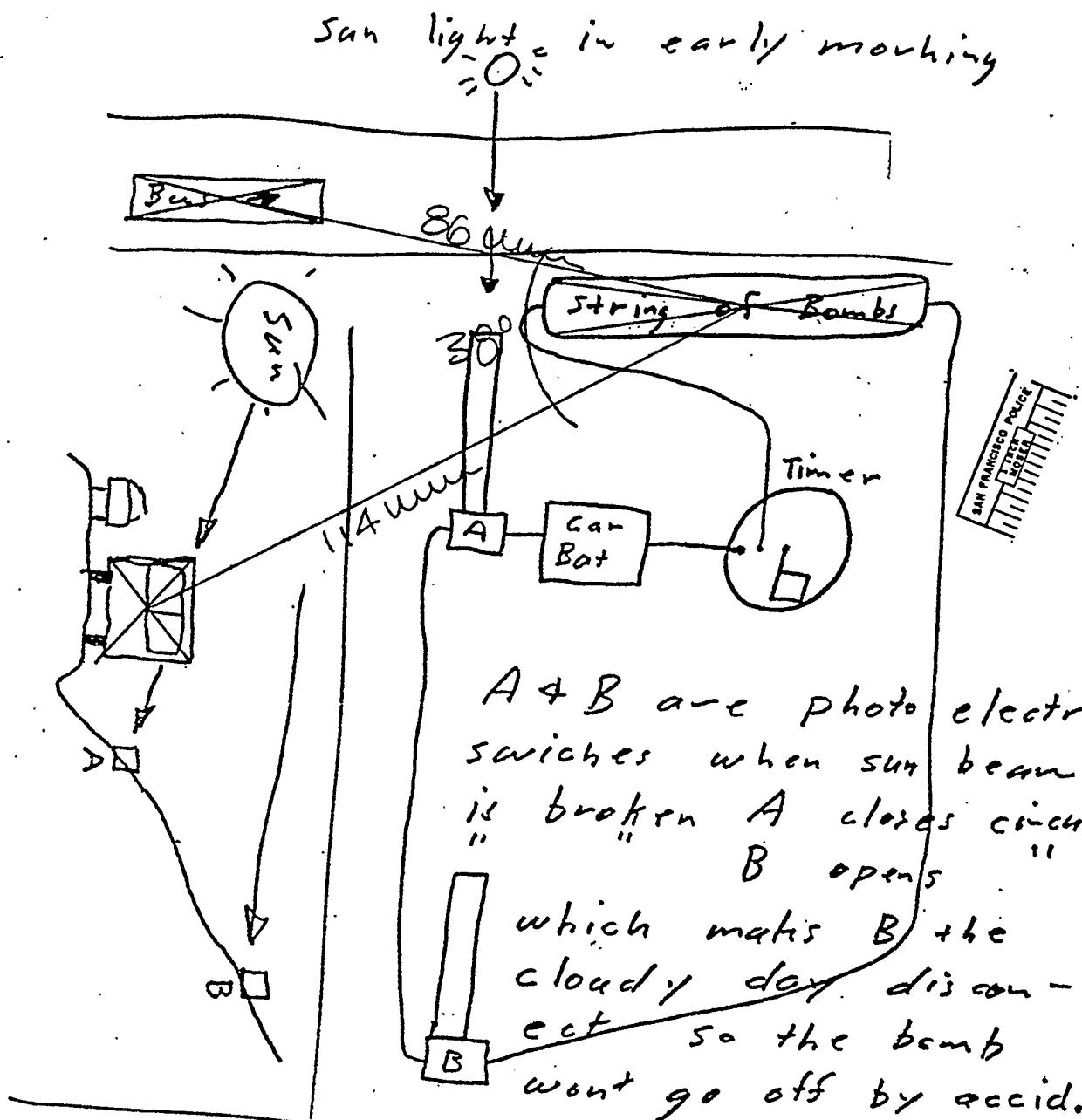
L	50
H	8
U	21
Y	25
	6
<hr/>	
	110

This letter was postmarked 20 April 1970. As with almost all Zodiac letters, the postmark is meaningful when read as the day of the year (the number of the day counting from New Year's Day). 20 April is Day 110. 110 in binary is 6. In the alphabet, #6 is F. When I construct diagonals in this figure to find its center, I find that they cross right on the cross-bar of the F in the word F. That point is the exact center of the figure.

I connected this point to the centers of the two buses. They form a 38-degree angle, which indicates to me that the figure is intentional. Furthermore, the legs of the angle so formed, 86 and 114 mm., add up to 200. 200 is binary 11001000, Morse 110 0 10 0 0, GENEx2.

The first time the crossed-circle sign appears in the Zodiac literature is as the first D of the word DADGERTUE (for "dangerous") in the August cryptogram. That character is Character #100. Here, Z. is flogging a clue as to how to read him. D in Morse is 100. D is the 4th letter of the alphabet; binary 4 is 100. The sign is a circle divided into 4 parts. 100 in base-10, one hundred, is binary 1100100, Morse 110 0 10 0, GENE. Taken together with the -UE ending of DADGERTUE, it spells EUGENE. The first 3 letters are DAD-.

The new bomb is set up like this



PS I hope you have fun trying to figure out who I killed

~~0=10~~ SFPD=0

APRIL 1970

BUS BOMB (5)

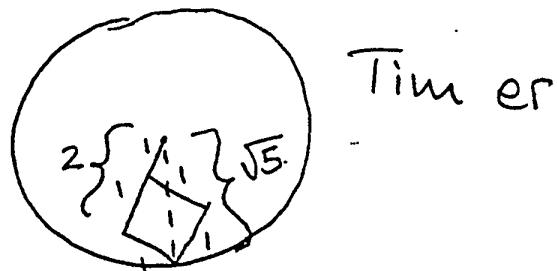
That leaves the car and car battery. I connected them center-to-center, as I did the other figures. The angle car-car battery-F is 117 degrees. 117 degrees west is the longitude of Riverside, California. And it was in that city that Z. got his first victim into his power by disconnecting her car battery. Note the "disconnect" hint in the text accompanying the diagram ("B (is) the cloudy day disconnect") and the postscript: "I hope you have fun trying to figure out who I killed." At the time of this letter, the connection between Riverside and the Bay Area murders had not been established, and Z. had done nothing to advertise it. This, I think, is a clear hint that he was responsible for the murder of Cheri Bates as well. The two legs of this angle, 82 and 48 mm., add up to 130.

The timer is the last figure that requires discussion. The segments of the figure inscribed in the circle are each exactly 4 mm. in the present photocopy. In the original, they were each $4 \times 16/15$ or 4.26 mm. each. The extreme corners of the figure are at the center and on the circumference of the circle, which implies the radius. The radius, when drawn in between those two points, is the hypotenuse of a right triangle whose sides are proportional to $1 - 2 - \sqrt{5}$. It's a Golden Mean right triangle.

The Golden Mean is $1 + \sqrt{5}$ divided by 2, or 1.6180339. . . . It is denoted in mathematical writing with the Greek letter phi. I mentioned before the separation between "Tim" and "er". Here's a comparison of forms between the binary writing of phi, Morse Code for TIM, and Morse DM (the predecessor of this device was the "Death Machine"):

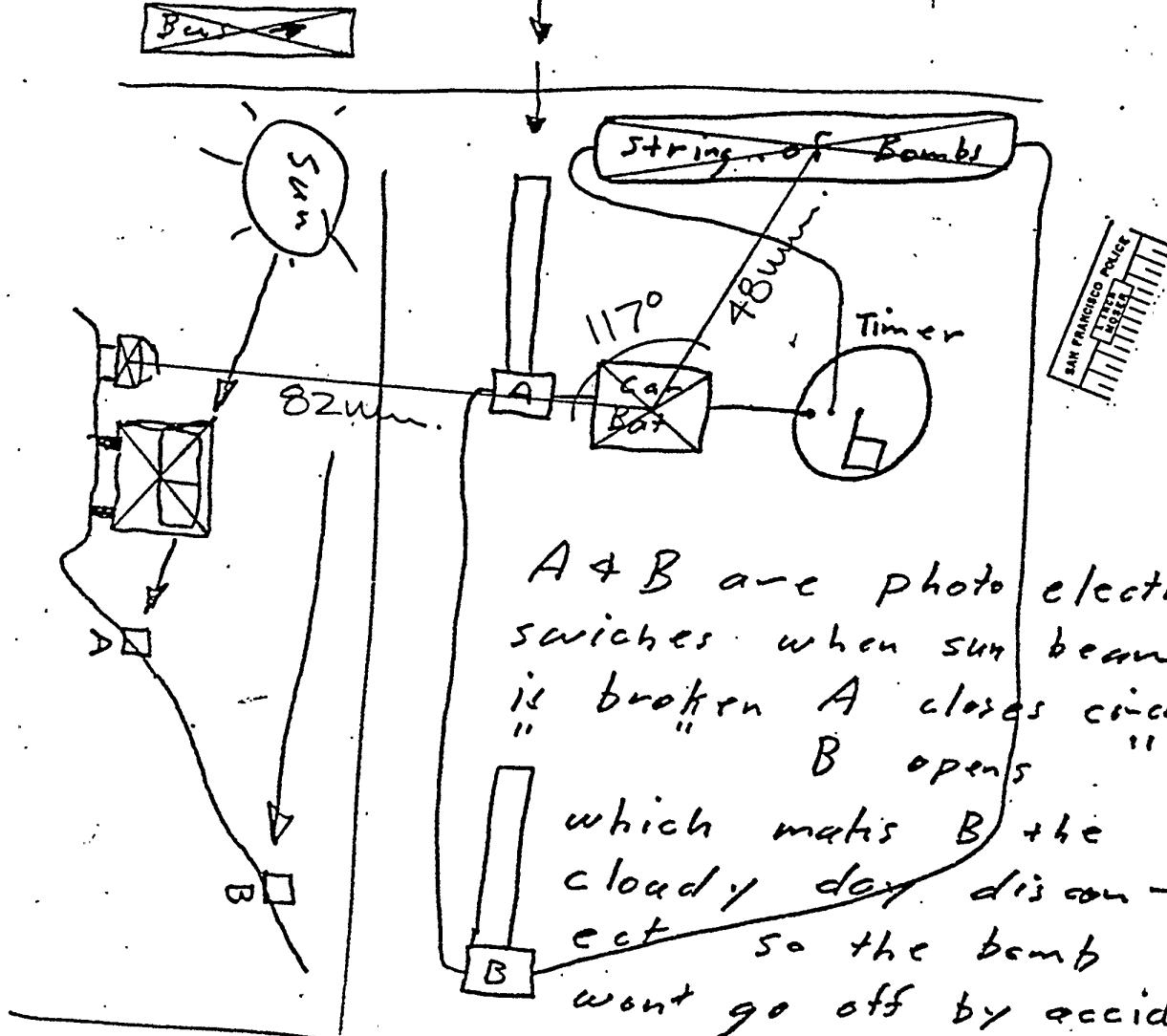
Phi: 0.10011. . . .
TIM: 10011
DM: 10011

The ratio between the two short sides of the photoelectric "switch"-polygon, $36.25/44.8$, is equal to $\phi/2$. The circumference of the "Tim er"-circle is $4.26 \text{ mm.} \times \sqrt{5} \times 2\pi$: 60 mm. The circumference is 60, the figure inscribed within expresses 1.618. . . ; their product, $60 \times 1.618. . .$, is 97. 9-7 is BM's birthday.



The new bomb is set up like this

Sun light = in early morning



PS I hope you have fun trying to figure out who I killed

$\odot = 10$ SFPD=0

APRIL 1970

BUS BOMB (6)

CONCLUSIONS

The author of this diagram left several clues as to how it was to be read. He indicated that dimensions were to be read in mm., he pointed with the lines of the signature at the centers of two other circles.

Careful analysis shows several signposts that point at conscious design and meticulous draftsmanship. The two "swiches" line up exactly with their light-source. The opposing sides of the "swich"-polygon express the ratio 2:1. The dimension of the two sun-timer lines spell TWO in Morse Code. The Golden Mean, a mathematical landmark for over two millennia now, is expressed two different ways. These things cannot all be accidental.

The following numbers, expressed as angular or dimensional measurement, all correspond to other Zodiac documents. 130, the multiplier used in the August cryptogram, appears here three different ways, as 130 mm., as 130π mm., and as a 130-degree angle. There are two 38-degree angles, one of them centered on a "Timer". The binary number 38, 100110, is identical in form with the word TIME in Morse Code. One of those 38-degree angles expresses a dimension, 200, a number expressed by Dot 3 in the 340-character "cipher". Finally, the connection of the car battery with the number 117 and the teasing PS about an unknown murder victim, ~~████████~~, appear to point directly at Riverside. Two other angles, the 70- and 140-degree ones, both express the letters BM in Morse Code.

35/BM, 130/BER, 200/GENE, the theme of 9's, 97 in conjunction with 38 -- all of these occur in a bewildering variety of forms elsewhere in the literature, and they all appear to point directly at a particular individual and his immediate family. That same individual wrote in 1964 about a new art-form which he called "meta-writing," writing whose graphic form is more expressive than the verbal content of the text. This diagram is a perfect example of the genre.

5 April 1982

Dear [redacted]

Thank you for sending me the photocopies. I'm sorry for you that you have to be subjected to this crank mail.

I don't see much worth commenting on in that mail except the Santa Claus card. It is crawling with Zodiac hallmarks. Enclosed is a 5-pp. analysis. It would be useful to know the date on which it was postmarked and the place in which it was postmarked.

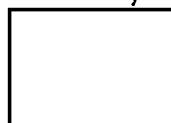
You have to make up your minds about how you want to take this and what you want to do about it. But my opinion is that the police just aren't ready for the Zodiac.

Please don't be put off by my writing about you in the third person. I wrote this up just as I would any other analysis and kept a copy for my own files, just in case. With your permission, I will send a copy of the card and this analysis to [redacted] [redacted] a forensic psychiatrist with whom I have been working on this for the last year. [redacted] knows the workings of the criminal mind inside-out and is very familiar with the Zodiac pattern. I recommend sharing it with him; but unless you say that you don't mind, I won't.

b6
b7C

I wish that I could do something really helpful for you. But this is about the best I can manage. Again, don't hesitate to call or write if you think I can do something.

Yours,



Note: Attached to this letter is a copy of "Santa Claus" letter to [redacted] — original of this was sent to [redacted] police and copy was sent to G. Penn

copy to [redacted]

FBI. w/attachment (Santa Claus letter)

SANTA CLAUS CARD

Address

Text: Deliver to:::Joan Webster./ Familie
Glen Ridge N J.

It goes without saying that this is not the way one normally addresses letters. "Deliver to" is superfluous. The USPS knows that it is supposed to deliver mail to the addressee. The Websters' street address, which was published by the Herald American, is not used -- as it is, for instance, in the Delnik letter. The author presumably got Glen Ridge from the same place. Why doesn't he use the street address, too?

Punctuation is inappropriate. "Deliver to" is followed by 3 colons. [] is followed by a period and a slash. "Glen Ridge" ought by rights to be followed by a comma, but isn't. The "N" of "N J." requires a period -- or else the one following "J" is superfluous.

address of the
Here is the text of the/Zodiac's first letter, sent to the
Riverside Enterprise, in November 1966:

Daily Enterprise
Riverside, Calif
Attn: Crime

The title of the paper is not "Daily Enterprise." There is no street address, no ZIP Code. There is no individual or department at the Enterprise called "Crime." In any case, "Murder" or "Homicide" would have been more appropriate.

The letter-count is 38. 38 is one of the most important numerical themes in the Zodiac literature. The first sentence of the August cryptogram, the opening gun of the Zodiac's Bay Area campaign, is also 28 letters ("I like killing people because it is so much fun"). []'s dissertation title, [] is 38 letters. In each case, the first thing you see, the address on the outside of the envelope, the first sentence of the text, the title, is composed of 38 letters. So is this address. "Deliver to Joan Webster Familie Glen Ridge N J" is 38 letters in all. I suggest that "family" has been misspelled in order to boost the count by one.

Now let's look at the way the address is divided up by punctuation and non-punctuation.

b6
b7C

SANTA CLAUS CARD (2)

The phrases between the exceptional punctuation (::: and ./) are, by letter-count, 9 - 11 - 7 - 11. 9-7 is [redacted] and it is the 38th one that appears to have been Z.'s obsession in his Bay Area phase. In my analysis of the Bus Bomb Diagram, Z. artfully disguised 97 as a 60-mm. circle in which a Golden Mean right triangle was inscribed, 60 times the Golden Mean being 97. The figure, the "Tim er", was the apex of a 38-degree angle. In the Riverside poem, Z. writes (line numbers indicated):

- 7) She wont die this time
- 8) Someonell find her
- 9) Just wait till next time

TIME, which gives 38 in Binary-Morse, appears in Lines 9 and 7, each time in the same position.

I don't suggest that there is any significance to 11. But if you have a 38-letter phrase from which you want to extract a 9 and a 7, you will have 22 letters left over, which must be divided into two parts, 11 each, to make a consistent pattern. Note that the use of a comma after "Glen Ridge" or a period after N would have broken up the scheme.

Stamps

Text: 4 5-cent George Washington stamps.

b6
b7C

Z. frequently made use of stamps in such a way as to express himself, including omitting them. In this case, Washington is the name of the street on which the Zodiac committed his last known murder. The number 4 is what the crossed-circle sign stands for.

Return address

The first striking thing about the return address is that it is from Austin, Texas. During the Postcard Blitz of last year, [redacted] received a number of cards from Austin. To the best of my knowledge, he turned none of them over to the FBI. In other words, the Austin connection is known only to him and me. Now look at how the author pasted the clipping over the return address, cutting off the last two letters of "Journal." The letter-count has been reduced to 56, binary 111000, Morse 11 1000, MB. Think of "Miss Bates," Melvin Belli, "movie Badlands," and a host of other MB-combinations in the Zodiac literature.

Punctuation

The 3 colons can be read as 3 Morse I's. I is the egomaniac's favorite word. And 3 of them makes 6 dots in all. 6 is binary 110, Morse for ME, his other most favorite word.

SANTA CLAUS CARD (3)

I'm going to write out the punctuation all in a piece, substituting 1 for /, 0 for .: 000000010. 7 circles followed by 10. On the address of the first Riverside letter, Z. used exaggerated circles to dot all of his eyes but one ("Calif") and as the colon following "Attn". This sequence appears in the 340-character cipher: 11000000000. The first 110 appears to be the familiar ME, the rest is 7 circles. There are several Dante-quotes in the Zodiac literature, and this one fits perfectly. Circle Seven is the place where the murderers go in Dante's version of Hell. 10 is binary 2. It may be far-fetched, but you could read this as "Circle Seven II" -- or, "Here we go again."

This is an appropriate place to mention something else. The date of the Riverside murder served as a baseline from which Z. counted intervals of days to the next two homicidal attacks. The number 130 structures both the August cryptogram and the Bus Bomb Diagram. 97 or 9 and 7 are also an important theme. Z. also counts dates as the Day of the Year. The 130th day from the disappearance of Joan Webster is Day 97 of 1982. That's 7 April, which is ominously the day before Passover. Traditionally, the orthodox slaughter a lamb on the day before Passover (Cf. Z.'s first letter: "Miss Bates was stupid. She went to the slaughter like a lamb."))

Santa Claus

All of the Zodiac's letters from the first Bay Area period (July 1969-March 1971) were postmarked in San Francisco, save one. The letter he sent to the LA Times was postmarked in Pleasanton in the East Bay. I believe that the two are related in this manner: Los Angeles is 400 miles south of here. PLEASANTON is an anagram for N POLE .SANTA. The only way you can go from the "N POLE" is south. In a letter of July, 1970, Z. quoted extensively from Ko-Ko's patter-song, "I've got a little list." "List" means not only a piece of paper with a series of things written on it; in the nautical sense, it means "deviation from the vertical." The North Pole is tilted 23 degrees out of perpendicular to the plane of the ecliptic. Z. hammered away on the theme, writing a Christmas letter to Melvin Belli, in which he wished Mr. Belli "happy Christmass" and "merry Xmass."

In the first Riverside letter, Z. wrote: "When we were away from the library walking, I said it was about time." The syntax struck me immediately as very peculiar. "Walking" was way out of its normal position, and it began with the same letter, W, as the cluster of words at the beginning of the sentence. I read the sentence in Morse, using 1 for W-words, 0 for all others:

111 0000 10 00 10 0
O H N I N E

SANTA CLAUS CARD (4)

Why did he choose the letter W? Read as a number, it's 23. 23 is the number of degrees of the inclination of the North Pole. In the same time-period, [redacted] prepared the Tower-article for publication. One page is a page of diagrams. There are two kinds of numbers shown on the diagram, pressure-tap readings and isobars. To distinguish between them, he used two different sizes of prepared lettering. To illustrate to the reader which size stood for which, he gave examples of both sizes, each of them followed by a legend indicating what the number stood for, isobar or pressure-tap reading. The typical values given on the diagram ranged from a low of 60 to a high of 95. Out of 49 2-digit numbers between 10 and 59 -- I assume that he wanted to use a number out of the range shown -- he selected 23 as his example. [redacted] was also 23 at the time of the Riverside murder.

b6
b7C

The reason for the excursus above is that the text of the message on this Santa Claus card comes to 23 letters: "Please, where can I write you,?."

If punctuation does the same thing here as on the outside of the envelope, then it reinforces the separation of "Please" from the rest of the text. "Please" has also been placed in a separate line all by itself. Assuming that this were a normal way of addressing oneself to someone in the Websters' position -- which it isn't -- the author might well have begun his first line with "Please" and ~~and~~ then begun his second line with, let's say, "you":

Please, where can I write
you,?.

First line: 6 letters. Second line: 17. 617 is not only the Area Code for Boston, the binary form, ~~1001101001~~ 1001101001, is identical in form with the Morse 1 00 11 0 1001, TIMEX. Timex was the brand of watch found at the scene of the murder in Riverside. The message is disingenuous. He knows where to write to the Websters and is doing it with the present communication.

The sequence of punctuation-marks seems to fit a pattern. Comma-comma-question-mark could be read as 110, ME. It's two of one type followed by one of a second type.*

The signature, "SC." shows the characteristic discussed above that the phrase is not interrupted by punctuation. "C" is followed by a period, but not "S". S is 19, C is 100. If you read it as a rebus, "19 before 100," it's 81, the square of 9.

It would be interesting to know the date of the postmark, which is illegible, at least on my copy.

* Second Riverside letter was in ~~the~~ three copies,
2 signed, "Z", the 3rd unsigned, I think
it's ME (110) again.

SANTA CLAUS CARD (5)

Conclusions

When anyone is as involved in something like the Zodiac literature as I am, it is easy to read things into documents like the present Santa Claus card. I know that from having done it before. It is necessary to be as critical as one can of analyses like this one to prevent a mental bias from creeping in. Nonetheless, I think that the list of Zodiac-like characteristics is impressive:

- 1) Unconventional form of address on mail cover.
- 2) 38-letter text.
- 3) Division of text into 9- and 7-letter groups.
- 4) Allusion to Washington (Street in San Francisco).
- 5) Use of what artists call "found materials": window-envelope, newspaper clipping, commercial postcard, postage stamps.
- 6) Expression of number 56 (graphic), identical in form with Binary-Morse MB.
- 7) Santa Claus/North Pole theme (is a Pole on his mother's side).
- 8) 23-theme in text of card. Especially, the number 23 in conjunction with Santa Claus/North Pole.
- 9) Graphic expression of 6/17 (Boston Area Code, Morse TIMEX).

There are other possible connections mentioned above, which I don't feel are strong enough to belabor, or which could be interpreted other ways, even if they are intentional. For instance, the punctuation on the mail cover, ::::/. could be read as a binary sequence using upper-case and lower-case as the basis of the system: 111000 -- 56, or MB again. It's too ambiguous to make much of.

b6
b7C

Better Life Journal
7617-D Metro Drive
P. O. Box 17128
Austin, Texas 7876

front of
envelope
→
(Usual
envelope of
Better Life
Journal)

new article
wrapped
around
envelope



Deliver to:::



N.J.

↑
not on
original - dirt

b6
b7c

Offer 10G reward
for missing coed

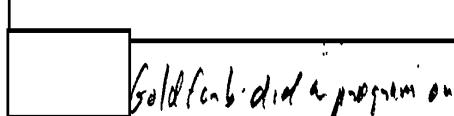


notes:

- ① Original sent to [redacted] Sanjour Police 4/11/82
- ② Not same handwriting as fraternity party letter
- ③ Picture of Joan comes from N.Y. Daily News Article of Jan. 20 '82

front of
postcard
inside
envelope

④



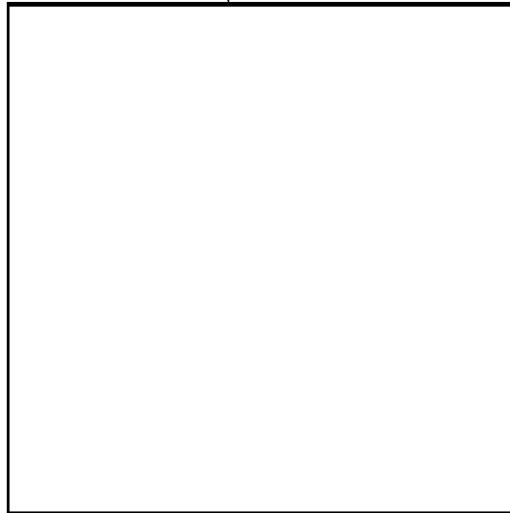
Goldfarb did a program on this

- ⑤ Letter dated 5/1/82 recd from [redacted] doing an analysis on this communication

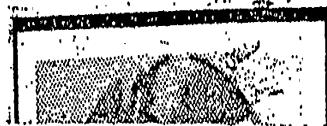
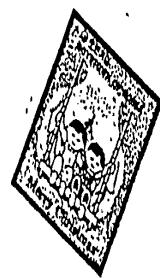


Recd Jan. 27

b6
b7c



back of
envelope →



MR. SANTA CLAUS U.S.A.

TEL. 212 456-8047

654 GRAND VIEW AVENUE
RIDGEWOOD, NY 11385

Please,

where can I write you,?

back of
post card
inside
envelope →

SC

Photographer: Ben Mitchell 103 Fifth Ave. N.Y.C. 10003

↑ I added red. D. b/w.
+ writing
done.

Written up by [redacted], April 7, 1982

(1)

Background of California Zodiac Killings

in '66-'69 as related to [redacted]

- [redacted], wrote [redacted] C.Joan Webster [redacted] on March 3rd '82 drawing possible conclusion that [redacted] might be the individual responsible for [redacted] disappearance because both of them of possibly having flown back to Boston from Newark on the same flight, on one same day, and [redacted] is convinced that [redacted] is the Zodiac Killer.
- Subsequently, additional correspondence and tel. calls have taken place between [redacted] with [redacted] attempting to reinforce his position
- [redacted] theories were brought to FBI attention back in ~~the~~ April of 1981 but [redacted] data was then incomplete and FBI did nothing about it ([redacted] ? - FBI office San Francisco)
- Since then [redacted] analysis has become more complete - [redacted] first made the Zodiac [redacted] connection in Jan. '81
- [redacted] was working with an independent producer affiliated w/ABC "20/20" [redacted] to do a production on the Zodiac killings - this relationship has apparently been severed (in February) and [redacted] is now working with an attorney [redacted] of Westport, Conn. who represents a movie production company interested in the case.

b6
b7C

(2)

- [redacted] interest A is two fold:

(a) Can [redacted] be identified as the Zodiac Killer
and if that connection is probable or
possible,

(b) Was he at Logan airport the evening of
Nov. 28^E 1971 — If he was, he is the
type of person [redacted] would have
trusted with respect to sharing a ride to
Cambridge (because of his architectural background
and affiliation with the University) during
the course, perhaps, of a conversation at
the Eastern Airlines baggage carousel while
[redacted] was waiting for her suitcase.

b6
b7c

- Key question therefore is whether or not [redacted] can be
placed not in California during one or more of
Zodiac Killin dates, which were:

October ? 1966 - Cheri Bates

12/20/67 - David Family & Betty Lou Jensen

7/4/69 - Darcie Ferris

9/27/69 - Cecilia Shepard & Bryan Huntwell

10/11/69 - Paul Stine (Cab Driver)

- [redacted] claims that [redacted] was working for [redacted] during
part of this period and that [redacted] interest at that

(3)

of architectural models

time involved wind tunnel testing — he wrote an article in 1966 on wind tests conducted on a tower on the MIT campus which was plagued by wind-related problems. — [redacted] states that his [redacted] involvement could have included trips to the Ames Research Laboratory in Sunnyvale, Calif. (a NASA facility) where the largest wind tunnels in the world are located. — However, [redacted] has not been able to document his presence there.

b6
b7c

— Because the Zodiac case becomes an interstate matter to the extent [redacted] might be involved, can not the FBI do a real investigation job on this ? ! ! : —

- Check out [redacted] employment records
- " " Ames Laboratory Records
- Access MIT (or Harvard) records as to whether [redacted] might have been lecturing or doing some special Cambridge on-site work during any of the above dates
- ~~Right~~ Access to his financial records during this period (Tax Returns, Bank Statements) might show up some California presence.
- Check out [redacted] binary correlations with an independent expert to see if they hang together.

4

- Other suggested check out items on

A.

b6
b7c

B. Question

- Harvard degrees - are they correct? - When did he get them? - Any honors? (Phi Beta Kappa etc)
 - When & where did he get the Doctorate in Eng'g & Applied Physics
 - What is current position at Harvard? - At MIT?
 - Past positions at MIT
 - Was he on a Board to determine architecture for new buildings & restoration on Harvard Campus?
 - Club affiliations - Social, Athletic, Academic
 - Girl Friends? - Hangouts?
 - Current and past books and/or articles?

(5)

- Is divorce proceeding final (He filed for divorce 12/10/81)
- Does he live in an apartment or house (21 Watson St. is address) Does he have mailbox or P.O. Box #
- Is current telephone number still 277-7893 - what are past telephone numbers.
- ^{were} When three toll calls from Cambridge in November were possible airline reservations to and from New York/Newark

Key

Question — Did he take a flight from Newark (or possibly LaGuardia) to Boston Logan Airport on Saturday, Nov. 28th after visiting with his father in Flushing, N. Jersey (His father is [redacted] - [redacted])

Tel. [redacted] ? — Note: A telephone

call made to the father in mid-December elicited the statement that he had flown back on that date, although Eastern Flight 960 manifest doesn't show his name

b6
b7C

— What's his social security number, car license, driver license — Does he have a passport — ~~what's Social Security number~~ — Has he ever been fingerprinted (Record in Wash. D.C. central files?)

Note: Copy of correspondence from [redacted] has been forwarded to [redacted], Inspector-Saugus Police and Criminal Investigation Unit, Harvard Police.

1165 Green Valley Road
Napa CA 94559
3 March 1982

Dear [redacted]

b6
b7c

I am sure that you have heard from every crank in the country by now about your daughter's disappearance and that you are skeptical about claims of knowledge as to what happened on 28 November last. I am not going to make such a claim, and I think you should indulge me by reading this through. Then you can decide what you want to do about it.

I am not a psychic, and I'm not a detective. I'm a freelance writer. For over a year now, I have been working on a project having as its subject a mass murderer who was active here in California between 1966 and 1969. He called himself "the Zodiac" -- you may have read about him at the time. The Zodiac left behind a large body of literature, about two dozen letters in all, which left the impression, on a cursory reading, of imbecility. Until now, nobody has made sense of them.

I obtained access to certain parts of the Zodiac literature which had been suppressed by the police, including a letter in which he suggested a mathematical exercise, employing terminology that most college graduates are not familiar with. The police had never tried the exercise he suggested -- since they had passed him off as a moron. I did, and the results were blood-chilling. There was a mind of the highest order of intelligence behind what appeared to be the work of an idiot, expressing himself in a mathematical idiom. I then spent a great deal of effort on analysis of the literature.

The Zodiac used an ingenious combination of puzzle-devices to leave a complete self-description. Apparently not contented with committing the perfect crime, or crimes, he also wanted the notoriety that ordinarily would have led to punishment. I suspect that advertising his identity the way he did was meant to be a kind of time-capsule. The puzzle was meant to be solved, but at some remove in time. He would become famous for his ingenuity and audacity maybe fifty years afterward, when it would be too late to do anything about it.

I tried working with the police, but their grounding in esoteric matters such as binary numbers is nonexistent -- just for one thing. For another, Mr. X is a big shot, in common parlance. He doesn't fit the stereotype of butcher of teenagers. So after a couple of painful lessons in butting my head against a stone wall, I gave up on the police.

Late last year, I got together with the news department of a national television network. I needed help in doing field investigative work of the sort that would produce evidence suitable for presentation to a jury. They wanted the big story, and so our interests merged. Their investigative work so far has corroborated my identification, right down to physical resemblance. Where the network seems to be stymied is in collection of evidence ordinarily requiring subpoena power -- e.g., fingerprints.

About the third week of December, the network called to tell me about your daughter's disappearance. I would not otherwise have learned of it, since it hasn't had any news-media coverage on the West Coast. There is reason to believe that [redacted] and Mr. X have at least a nodding acquaintance, and the network's research placed him on a flight from Newark to Logan about the same time as hers -- possibly even the same flight. In other words, the same person that I had identified to the network's satisfaction as the Zodiac murderer was at Logan at the same time [redacted] was and is the sort of person whom she could reasonably trust with her safety, let's say, having been offered a ride into town.

I was skeptical of the network's theory at first, but developments since then has made it more than just plausible to me. It has the appearance of another Zodiac guessing-game, a treasure-hunt, and the two sites where [redacted] effects have been found have attributes that exactly fit the Zodiac pattern.

My suggestion, if you want to pursue this any further, is that you let me know, and that for the time being, that you not say anything to the police about my contacting you. If you desire, I will send you some literature by me on the subject, some published, some not, which you can use to form an opinion. I can't suggest to you what course you should follow in the event that you see things my way, but that's for you to decide in any case.

The address above is my home address. If you want to reach me by phone, my number is [redacted] — called him on 3/5/82

Sincerely,

b6
b7C

Copy to [redacted]
Copy to [redacted]
extra copies [redacted] (not now)
for follows

To assign the problems posed by the Zodiac literature solely to the domain of cryptography is a fundamental error. While the contributions and criticism of cryptanalysts are valuable, most of the problems consist in a test of our powers of observation, not of mathematical systems of analysis. Cryptography is the art of concealing linguistic forms in a system conforming to the iron laws of mathematical logic. But language itself does not function according to those laws. A cryptographic system keyed to the Roman alphabet ought to work just as well for English, French, or Turkish, since all three languages use that alphabet; but no amount of mathematical analysis can devise an explanation for the fact that we English-speakers say "a black dog", Francophones say "a dog black" and the Turks say "black a dog".

The principles of linguistic analysis of an unknown language are essentially to try to deduce its rules by matching forms found in the language first, to known landmarks (historical, geographic, etc.), and then to consistent patterns found within the language, whatever the forms taken by those patterns. This presentation will demonstrate exactly that.

The Zodiac's method is essentially Kabbalistic. Students of Kabbalah will recognize familiar features. The reverse-alphabet cipher which I call WIZARD was known to the Kabbalists as atbash. Letters can be treated as numbers and numbers as letters, another feature of Kabbalah. The only original contribution made by the murderer is a Morse Code-to-binary number transformational system.

A word can be written out in Morse, then read as a binary number, and vice versa. CAT, for instance, is 1010011, base-10 83. DOG is 100111110, 318.

In the following examples, no attempt will be made to produce incriminating information. The sole purpose of this demonstration is to prove, on the basis of demonstrable interrelationships between known landmarks, consistently-repeated patterns, and the Zodiac's puzzling pronouncements, that he can be read. In the final analysis, that's all that counts. Readers may judge for themselves as to whether I am being scientific or not.

*

*

*

1. One of the most intriguing puzzles posed by Z. is the sign he used as a signature on the majority of his written communications, the crossed circle. Speculation at the time as to its derivation was not only uninformed but also overlooked the fact that a derivational explanation could point in a dozen different directions.

Fortunately, the author told us exactly what it stands for. He also proved that our powers of observation are not what they might be. The crossed circle appears in the August 1969 cipher, standing for the letter "D". "D" represents a convergence of systems, a locus in which two different systems produce the same results. Z. is fond of such convergences. Written in Morse and read as a binary number, "D" is 100, base-10 4. It is also the fourth letter of the alphabet, thus making 4 two different ways. Seen in that context, I think it should be obvious what the sign stands for. It's a

circle divided into four equal parts, a graphic representation of the number 4. That interpretation is disappointingly prosaic for those who would like to see an ancient witchcraft symbol used by the Dayaks of Central Borneo in it, but as will become obvious from later examples, the number 4 is of central importance to the Zodiac.

2. In the August 1969 cryptogram, this phrase appears: ". . . all the I have killed. . . ." It appears that the author has lost track of what he is saying; he doesn't say the what. A great deal of experimentation and analysis on my part has demonstrated that of all the letters of the alphabet, the only one which deviates from its common value is "E". Reading this letter as 3 instead of 5 produces results consistent with known landmarks. More instances of this will follow.

In this case, the word THE adds up to 20 (T), 8 (H), and 3 (E): 31. Casting out nines, 31 reduces to 3 plus 1, 4. THE can be read as a disguised form of the number 4. As of the date of the cryptogram (1 August 1969), the Zodiac is known to have murdered Cheri Jo Bates, David Faraday, Bettilou Jensen, and Darlene Ferrin; in all, four victims. ". . . all four I have killed. . . ." is not only good English, but it is historically correct as well.

3. In his letter to the Times-Herald, Z. threatened a "kill rampage" lasting from "Fry" to "Sun". In his letter to Melvin Belli, he wished the recipient a "mery Xmass". Both "mery" and "Fry" are egregious misspellings. I note that both terminate in the group -RY. If there is any kind of consistent linguistic principle at

work here, there must be some equivalence between the prefixes F- and ME-.

ME in Binary-Morse is 110, the base-10 number 6. F is the 6th letter of the alphabet. In both instances, then, there is a form of the number 6 followed by the same group, -RY.

4. Many of the Zodiac's formulations explicitly expressing number (e.g., "ME 37") were interpreted as claims of victims killed, even though the author never said that that was what he meant. Many of these "box-scores" show, on the basis of internal evidence, that they are mere arithmetical manipulations, essentially truthful, designed to induce misinterpretation, and presumably for Z.'s own amusement.

One such formulation: "Des, July, Aug, Sept, Oct equals 7". On mathematical analysis, the statement is not only true -- in the sense that the groups expressed add up to 7 -- but it also produces a pattern that is confirmed by repeated expression elsewhere. Once again, "E" is 3, not 5.

DES (4,3, and 19)	26	Letter "Z"
JULY (10,21,12, and 25)	68	Binary-Morse spelling of NINE (1000100)
AUG (1,21, and 7)	29	? 11101: OA ?
SEPT (19,3,16, and 20)	58	"radian" angle
OCT (15,3, and 20)	38	TIME (100110)

Reading the number 9 for 68/1000100/NINE, the sum works out this way:

$$\begin{array}{r} 26 \\ 9 \\ 29 \\ 58 \\ \hline 38 \\ 160 \end{array}$$

Casting out nines, 1,6, and 0 add up to 7. The statement is true, and it has nothing to do with murder victims at all.

5. The 340-character cipher (if it is a cipher at all, which I doubt) is made up of about an equal number of block letters and geometric forms. Six characters do not conform to the pattern. They are dots. These dots are distributed in the text in such a way as to break the groups of undotted lines into ones and fours. There are no two-, three-, or five-line groups. The sequence of undotted groups is 144114, binary 38, a running theme. The grouping also expresses the number 9, another running theme. Each line is 17 characters, and the four-line groups express 4x17 or 68, the Binary-Morse spelling of the English word NINE.

Having selected lines in which these dots are to appear in such a way as to effect this division, Z. is at liberty to place them anywhere within the lines in which they appear. Analysis of their position within the text -- the number of the characters they express -- shows a pattern that repeats the one demonstrated in Example 4, above.

The six dots are Characters No. 29, 116, 200, 232, 258, and 267. 29 is familiar from the above example. 29 and 116 together constitute a mini-IQ test, a group of numbers joined together by a ratio or progression from which a number has been omitted. Once again, our powers of observation are being tested. 29 is 58/2; 116 is 58x2. The missing number is 58. 232 is 4x58. 258 occurs 26 (Z) spaces beyond 232, and 267 follows by 9.

Dot 3 (200) expresses the name of a person biographically known to be close to Mr. X and will thus not be discussed here.

In a subtle fashion, then, Z. has constructed this puzzle to express the numbers 26, then 9 (a configuration which occurs repeatedly elsewhere), 29, 58, and 38, the same cast of characters encountered in "Des. . . equals 7", discussed above.

6. Here is the text of Z.'s inscription on Brian Hartnell's car door:

Vallejo
12-20-68
7-4-69
Sept 27-69-6:30
by knife

The dates of the two previous attacks are written in one style, the present date in another. Considered in the light of the foregoing examples, it is quite significant. SEPT adds up to 58, and Z. has written it into the fourth line of the text. In "Des. . . equals 7", SEPT was the fourth item listed. Dot 4 in the 340-character cipher expresses the number 232, 4x58. This pattern, the close conjunction of the numbers 4 and 58, will be discussed at length below. The variety and subtlety with which it is expressed by the author is proof, if any further proof were needed, of his intellectual refinement.

7. Quite a lot was made of the Zodiac's misspellings. That he knew the correct spellings of English words is manifest from the text. In one letter, he uses both "bought" and "boughten". In the LA Times letter, he writes "ever~~e~~", but spells it "ever~~e~~" in the "movie Badlands" letter.

In the LA Times letter, Z. misspells only two words. My choice of these misspellings is therefore not arbitrary. Their misspelling stands out in sharp contrast to the rest of the letter. They also stand out because they occur in the same line. The words are "evere" for "ever" and "meannies" for "meanies". The line in which they appear is number 4. EVERE is 5 letters, MEANNIES 8. 5 and 8, in line 4.

8. The 13-character cipher consists, like the 340-character cipher, of a binary set of figures, here, block letters and circles. As with the larger cipher, there is a third type of character which is only sparsely represented and which belongs to neither set: an inverted umbrella. The umbrella will be reproduced here as *, since I don't have umbrellas on my typewriter keyboard.

A E N O O K O M U * N A M

I read * as a break between two sequences. And reading them as binary numbers (1 for letters, 0 for 0), these are the results: 111001010 and 111. 111 can be read in Morse as MT, zero, or as the binary number 7. As both, 0/7, it is of biographical significance and so will not be discussed here. The first nine digits, however, constitute another member of the 4-58 type, which is oblique enough to be discussed without fear of lawsuits: it's the base-10 458.

9. On the Lake Tahoe Card, this cryptic phrase appears: "Around in the snow". Here's SNOW in Morse Code: 00010111011. And here it is, turned around: 11011101000.

The first three characters are a familiar group. 110 appears frequently as a prefix or subject, signifying ME, first person singular, one of the egomaniac's two most favorite words (along with "I"). The predicate, 11101000, is 232, or 4x58. "Around in the snow": ME 232, ME 4x58.

10. Z.'s complaint about the "movie Badlands" ad in the Chronicle is striking first, because the grounds of his complaint is that the movie, he says, glorifies violence by making heroes out of mass murderers. It is also striking because, in contrast to other written communications, it does not sound cryptic or Delphic, and the only misspellings (both in line 2) are corrected by the author. The third striking feature is that this literate and apparently principled complaint begins with a long, windy, run-on sentence that takes up more than half of the text. To spare any further preface, the letter-count of this sentence is 232.

Just as a sidelight on this letter, the scratched-out misspellings in line 2 fill out the line graphically, thus obscuring the fact that only nine letters are left standing. The letter-count of line 1 is 16. 16 is P, 9 is I. The reason for the corrections seems to have been to sneak in the natural number pi, which occurs elsewhere in profusion in one form or another. Z. writes, for instance, of "victim no nine". N is 14, O is 15, NINE is 9. 14159 -- where have you seen that before?

12. These two statements appear in the first Riverside letter. They both begin with "I am" and both contain elements of the same acrostic. "I am Not Sick. I am in SaNe." "I am Stalking Your Girls Now." (emphasis mine) NS corresponds in the WIZARD alphabet to MH. The word-count of the whole letter is 432, binary 110110000, ME MH (110 is ME, 11 is M, 0000 is H). The GY of "Stalking. . ." corresponds in WIZARD to TB. In the same letter, Z. speculates about his next victim: "Maybe she will Be The Beautiful Blond That Babysits near the little store. . ." (emphasis mine) The acrostic here touches on biography, but I think it suffices to note that the author is generating numbers by repetition of the members of the group BT. And BT translates as GY.

G is Letter 7, Y is 25. The group is nothing more nor less than a transposition of ME. G(7) plus 6 is 13 (M); Y(25) plus 6 is 31 (E). 6 is 110, ME. 13-31 is probably pleasing to Z. because of its symmetry. At all events, GY appears frequently in the place of ME, as the subject of crypto-sentences.

Z. addressed his letter to Melvin Belli at "228 Mtgy". I don't want to get off on a sidetrack, but it is a comment on our collective powers of observation that no one noted at the time that Mr. Belli has been practicing law since 1960 at 722 Montgomery. The abbreviation MTGY can be analyzed simply as GY MT, "Me Zero".

In one letter, Z. uses the abbreviation "abt" for "about". ABT in WIZARD is ZYG. GY Z: ME Z.

One torture Z. envisioned for future victims was feeding them "salt beef" and then withholding water. Here's SALT BEEF in WIZARD:

SALTBEF2
HZOGYVU2

Rearranged into meaningful groups: Z. H20. GY UV. The letter-sum of UV (21 and 22) is the same as that of RY (18 and 25): 43. This reading corresponds to numerous givens in the literature.

In the letter to the Times-Herald, Z. misspells "lying" as "lyeing". It analyzes as Gy (ME) LI (51), N (14), E (3): ME 68. 68 is binary 1000100, the same sequence in Morse as the English word NINE.

In the ~~next~~ letter to the Examiner, Z. spelled "originally" "origionaly". With the doublets, it's ORIGNALY4. R-I and L-O cancel out as WIZARD-pairs, leaving GY N (14), A (1), 4: 19. TIME in Binary-Morse is 38; 19 may be an example of sardonic humor. The letter in which this spelling occurs came after the first two Bay Area murders (better, attacks) and before the last two. 38/2 is 19, half-time.

13. In the preceding section, I mentioned that Gy was transposed backward 6 places in the alphabet from ME and that the sum of Gy (7-25) plus 6 gives 13-31, which Z. presumably likes because of its symmetry. There is another reason, which touches on a previously-undiscussed Kabbalistic aspect of the Zodiac literature, namely the creation of new words by redivision of a given sequence. In Kabbalah, this was done with sequences of letters. I think it is obvious that the possibilities of this process are potentiated in Morse Code. Here are two sets of examples.

133 lpi is 4183. Read as a sequence of letters, it's D (4), R (18), E (3). In the desktop poem, Z. wrote of

Blood spurting, dripping, spilling
All over her new dress. . . .

Cheri Jo Bates wasn't wearing a dress, new or otherwise (let alone red, as he describes it in the next line) at the time of her death. The word "dress" is DRE- followed by the group -SS. I note that S is 19, and 2x19 is 38, Binary-Morse for TIME.

The Zodiac proposed to attack a school bus by shooting out a tire, then "picking off the kiddies as they come bouncing out the door". He never did. He told his victims at Lake Berryessa that he had escaped from prison in Deer Lodge, Montana. It was a lie. I note that the postal code for Montana is MT, Zodiaceese for "zero". Here is a comparison of the sequence DRE-, TIRE, and DL (initialism from Deer Lodge).

100	010	0	(DRE)
1	00	010	0 (TIRE)
100	0100		(DL)

All three are the exact same sequence: 1000100, 68, Binary-Morse for NINE. My choice of examples is not arbitrary; each of these is at the core of a falsehood.

In the letter following the Stine murder, Z. gives an exact dimension to the distance between himself and the police: "150 ft". In the letter accompanying the Mt. Diablo map, he said that he had buried a bomb which could be found by turning the "magnetic indicator" on Mt. Diablo to North. We had, he said, "until next fall to dig it up".

DIG IT is a Kabbalistic redivision of "digit", i.e., 1. UP in Morse is ~~1~~ 001 0110. 1 added to 001 0110 (DIGIT UP) is 10010110, binary 150. Note the symmetry: the first 4-digit group is the mirror image of the second. Here are two Kabbalistic re-divisions of the entire group that appear to correspond to the psychological givens: 1001 0110, XP, the traditional abbreviation for Jesus Christ; and in smaller groups, 1 00 1 01 10, TITAN.

(7)

The 340-character "cipher"

On 10 November 1969, the Zodiac sent the Chronicle what appeared to be a second cryptogram. The format, 17 characters to the line, was identical to the first. But the field of cipher symbols was different; it was obvious from the first that he had thrown a curve ball. When a lot of talented people tried to decipher it, they came up with nothing. It was generally dismissed as meaningless.

When I took up the problem, I made two assumptions. One was that it was not meaningless. That would have been tantamount to surrender. The other was that since people who are good at cryptanalysis had tried their hands at it, it must not be a cipher at all. Moreover, as my experience with cryptanalysis is limited to having read "The Gold Bug" many years ago, it would have been a waste of time for me even to try that methodology.

Earthform art is an exercise in perspective. Many other Zodiac problems are set against a constantly shifting perspective. The first cryptogram was a genuine cipher. Suppose that it was a red herring, designed to create the expectation that all subsequent cryptic-looking messages were ciphers when they were in fact not?

Apart from the six dots, the text is made of two classes of characters, geometric forms and letters. The geometric forms have been dressed up with shading, dots, crosses, and line-throughs, and the letters are written in various orientations. But they still constitute two classes.

Casting out nines is a running theme in the Zodiac literature. 9th in the alphabet is the letter "I", ego; in base-10 notation, 9 is the vanishing number. What a metaphor for the Invisible Man! All of the geometric forms express a sum of angles divisible by 9: circle, triangle, square; to these, I added letters which have the same shape as geometric forms -- C, L, O, and X (semicircle, right angle, circle, and cross). Just for good measure, I threw in the letters "I" and "R" (9 and 18). That was one class. All other block letters made up the other. I then assigned 1 and 0 to the members of each class, respectively.

The Zodiac left a number of clues that quote or allude to the number pi. He quoted in two letters from The Mikado. The preliminary solution (attached) appears to be authenticated by two sequences of digits. Line 1, characters 1-13, are the same sequence found to the right of the decimal point in the binary writing of the number pi. Line 7, characters 2-17 (not including the dot) are the same sequence that spells MIKADO in Morse Code.

Solutions to: 1)

CA [redacted] and 2) Supervisory Special Agent, Federal Bureau of Investigation, PO Box 36015, San Francisco CA 94102.

b6
b7C

Note on MIKADO

The occurrence of the sequence 110010101100111 (MIKADO) in line 7 fits into a well-developed pattern in the Zodiac literature.

The LA Times letter (15 March 1971) is composed in 103 words. The Hole Card (6 October 1970) has a row of 10 holes followed by a row of 3. The 13-character cipher (20 April 1970) has a sequence of 9 letters and circles ending in a singular character, the inverted umbrella, number 10, followed by 3 letters. The corrections in line 2 of the "movie Badlands" letter (ien, eemsterati) are 3 letters and 10 letters (date: 8 May 1974). Z. attached USPS stickers reading, "Always Use The Correct ZIP Code" to his mail covers; and most of his communications went to the Chronicle (ZIP: 94103).

Describing the events following the Stine murder, Z. wrote that the police arrived in "two groups of parking". This makes no English sense. Here's PARKING in WIZARD:

P A R K I N G (Nulls: P-K, R-I)
- Z - - - M T

Z is his signature, MT is zero ("empty" number, identical in Morse with letter "0"). Together, they spell, in Binary-Morse, 1100111, base-10 103.

"Comitt" for "commit": the correct spelling would have worked as well, but then our attention would not be drawn to it. With the doublet T, it's COMIT2. MT is 0, and with the other 0, 00, it's the Morse letter "I", subject of sentence. The predicate, CI2, is 103: "I am 103".

The lengthy preface above was meant to establish a context in which to discuss MIKADO. Here, it is preceded by 103 characters. Here's a comparison of forms:

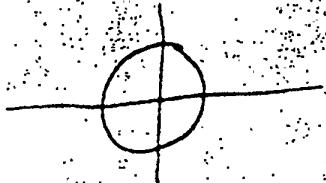
110010101100111 (MIKADO)
1100111 (ZMT/103)

If we treat 103 as a suffix, the prefix, 11001010 (202), is the same sequence in Morse that spells the personal name

 Z, zero: a name, a signature, a mathematical theme.

b6
b7C

H E R > 9 J A V P X I Q L T G O D
N 9 + 8 φ a o B D W Y . < Q K F \diamond
B Y Z M + u z q W φ \diamond L B \diamond H J
S 9 9 Δ A L V A □ V 0 9 0 + + R K O
□ A M + \diamond T D T I Q F P + P Q K /
9 4 R A F L O - B C \diamond F Y O D 4
■ + K D B E 0 C N X G V . \diamond L I
φ G 0 J F T B O + D N Y \diamond + Q L A
O < M + 8 + Z R Q F B C V A O O K
- \diamond J U V + A J + 0 9 A < F B X -
U + R / Q L E I D Y B 9 8 T M K O F
O < J R J I B Q Q T Q M . + P B F
 \diamond O A S X B + N I Q F B C Q I A R
J G F N A F • O B Q C V Q O T + +
X B X Q B X Q D C E Y V U Z Q - +
I C O \diamond 8 K Q O 9 A . Q M Q G O
R Q T + L Q C < + F L W B I \diamond L
+ + Q W C \diamond W C P O S H T / Q Q 9
I F K Q W < A D B Q Y O B R - C C
> M D H N S K P Z Q A A I K E T



1.	0	0	1	0	0	1	0	0	0	0	1	1	1	0	0	1
2.	0	0	1	0	1	1	1	1	0	0	0	.	0	1	0	1
3.	0	0	0	1	0	1	0	0	0	0	1	1	1	1	1	0
4.	0	0	0	1	0	1	1	1	0	1	0	1	1	1	1	1
5.	1	1	0	1	1	0	0	0	1	1	0	0	1	0	1	0
6.	0	1	1	0	0	1	1	1	1	0	1	0	0	0	1	0
7.	1	1	1	0	0	1	0	1	0	1	1	0	0	.	1	1
8.	1	0	1	0	0	0	1	1	1	1	0	0	1	1	1	1
9.	0	0	0	1	0	1	0	1	1	0	0	1	0	0	1	1
10.	1	1	1	0	0	1	0	0	1	1	0	1	0	0	0	1
11.	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1
12.	1	0	1	1	1	0	1	1	1	0	1	0	.	1	0	0
13.	1	1	1	0	0	1	1	0	1	1	0	0	1	1	0	1
14.	1	0	0	0	0	0	1	1	1	0	.	1	0	1	0	1
15.	0	0	0	1	1	0	1	1	1	1	0	0	0	0	1	1
16.	1	1	.	1	1	0	0	1	1	0	0	.	0	0	0	0
17.	1	1	0	1	1	1	1	1	1	0	1	0	1	0	0	1
18.	1	1	1	0	1	1	0	1	0	1	0	0	0	1	1	0
19.	1	0	0	0	0	0	1	0	0	1	0	1	0	1	1	1
20.	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0

π

MIKADO

The Zodiac's most consistently-used signature, the crossed circle, was variously interpreted during the time of his rampage as a depiction of the cross-hairs of a rifle's telescopic sight, as a "mystical symbol of the universe", and as having been borrowed from an Asiatic religion, which was never specified. I have in front of me an Associated Press printout dated April 26, 1978, which adds something else: "The signs of the Zodiac, contained in a segmented circle, are the basis for astrology, a type of fortune telling." But what the AP fails to note is that the segmented circle of the Zodiac is divided into twelve segments, not four.

There's no reason to stop there in looking for a derivational explanation for the murderer's choice of an emblematic signature. The same sign is used to mark targets on satellite reconnaissance photos used in programming the electronic bombsights on B-52's. The sign is called, in Strategic Air Command jargon, "R.P." (for Reference Point). R.P. was the return address on the Count Marco Letter, the last genuine communication from the Zodiac.

And on the subject of Asiatic religions, the crossed circle appears near the entrance of every Roman Catholic church in the world, as a sign of consecration. Christianity did originate in Asia.

As far as symbols of the universe are concerned, the same sign

is used by scientific astronomers as a shorthand for the planet Earth. The U. S. Geological Survey uses it on its benchmarks (BM); the Benchmark-significance is so well known that a major paper manufacturer uses the crossed circle as a trademark for its Benchmark-label products. It was used in pagan Scandinavia as a symbol for the sun -- and the Zodiac did cite an Old Norse verb-form in his second-to-last letter to the Chronicle. That hardly exhausts the list of derivational interpretations.

In other words, all depending on your personal prejudices, the crossed circle may be taken to mean that the Zodiac is a SAC intelligence analyst, a Catholic priest, an astronomer, a surveyor, a sales representative for Benchmark paper products, a pagan Scandinavian, or a member of the National Rifle Association. The derivational interpretation preferred by the press leads in so many different directions at once that it is useless as evidence. We are thrown back, as in virtually every other instance, on the Zodiac's own testimony. Once again, our powers of observation are being examined. And if one looks closely, the meaning becomes quite clear.

In the August cryptogram, the Zodiac used that same sign to stand for the letter "D". "D" in Morse is 100. 100 is the binary 4; "D" is the fourth letter of the alphabet. The sign appears first as Character #100 in the cipher: one-zero-zero, binary 4. Seen in that light, it is perfectly obvious what it is: a circle divided into four parts. It is a graphic representation of the number 4.

That number, or the sign which stands for it, appears over and

over in the Zodiac literature. It is like the red thread that used to be woven into British Navy hawsers to mark them as Crown property. It appears in conjunction with two other numbers, 58 and 35. In the following, I will develop the 35/4 theme.

After his vicious attack on Cecilia Shepard and Brian Hartnell at Lake Berryessa on 27 September 1969, the Zodiac used a felt-tip marker to inscribe this message on Brian's car-door:



Vallejo

12-20-68

7-4-69

Sept 27-69-6:30

by knife

Here, the sign of the number 4 is followed by 35 characters.

I am going to reproduce next the first five lines of the 340-character cipher, in which the crossed circle is used as a symbol -- as one might expect -- nine times. O will stand for the sign, X for all other characters.

XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXOXX
XXXXXXXXXXXXXXXXXXXX
XXXOXXXXXXXXXXXX

The first occurrence of the crossed circle is in Line 3. It is placed three spaces from the right margin. The second occurrence is in Line 5. There, it appears five spaces from the left margin.

It seems remarkable that in a document which is either linguistic and has a meaning which has not been discovered because the Zodiac's cipher was too complicated for all the talented cryptanalysts who worked on it, or is meaningless, to contain this signature-symbol in two consecutive positions, each of which expresses the same number (line number and space number) two different ways, without the author having designed it to be that way -- as an expression of number. 3 and 5: 35.

The reason for the AP's inference about astrology, and the reason why the local police pored over the circulation-records of public libraries to find out who had been reading books on astrology, is that the murderer occasionally began his communications with this salutation: "This is the Zodiac speaking." I quote again from the AP's boiler-plate: "Zodiac, some of whose past messages have been in code, or in ghoulish prose, named himself." If you will go back and read what the author actually wrote, he does not name himself "Zodiac" -- he names himself "the Zodiac". He also named himself "Z", "A Citizen", "Red Phantom", and . None of the latter has anything to do with astrology, and other than the use of the word "Zodiac", there is no hint in the literature of an astrological bent on the author's part. For that matter, the word "Zodiac" is a perfectly respectable scientific word when used by astronomers to denote a certain part of the sky.

Here is the salutation, "This is the Zodiac speaking", examined with the tools of both WIZARD and Binary-Morse.

THIS IS THE ZODIAC SPEAKING

T2 H2 I₄ S3 E2 Z0 D A2 C P K N G

$$2+2+4+3+2+2 = 15$$

T H I S E Z O D A C P K N G 15 (Nulls: G-T, H-S,
- - R - V - L W - X - - M - 15 Z-A, P-K)

MLXV	1065
W	23
R	18
	<u>15</u>
	1121

1121 is binary 10001100001

100011 is 35. 00001 is Morse numeral 4.

The above salutation is used, among other places, in the Los Angeles Times Letter (15 March 1971). Here is a diplomatic reproduction of the first eight lines of that letter.

- 1) This is the Zodiac speaking
- 2) Like I have always said
- 3) I am crack proof. If the
- 4) Blue Meannies are evere
- 5) going to catch me, they had
- 6) best get off their fat asses
- 7) & do something. Because the
- 8) longer they fiddle & fart
- 9) around. . . .

Contrast is perhaps one of the most instructive items in the Zodiac's armamentarium. Elsewhere, he writes, "blue meannies". I note that here, in contrast with his usual practice, the phrase is

written upper-case, "Blue Meannies". By way of further contrast, the proper noun Riverside appears in Line 13 as "riverside". B is Morse 1000, M is Morse 11. Taken together in the order in which they appear, BM, 100011, they express the number 35. And this phrase appears in Line 4. 35 and 4.

Other than in this letter, there is only one scatological phrase in the published literature: "Getting your rocks off" (August cryptogram). Here, in one letter, we have two. In Line 6, "fat asses". In Line 8, "fart". Not only do they stand out by contrast with the Zodiac's usual usage. They also stand out graphically. Both are written in the right margin, and both are scratched out. "Fat" is 3 letters, "asses" is 5. "Fart" is well known as a 4-letter word. 35 and 4.

In the letters covering the three parts of the cryptogram, the Zodiac threatened a "kill rampage" if the cryptogram were not published on the first of August 1969. Again, contrast is instructive. While he sometimes made vague threats in order to prompt publication, this is the only time he specified a date. In the body of that communication, he used a bewildering variety of cipher-symbols, but for the most part, they were used consistently. Two symbols stand out, again by contrast. He used four different symbols for "A", one of which was triangle, which appeared five times for that letter. In one case, the triangle was filled in solid. That character was the 229th of the message. 229 degrees is the number of degrees in four radians. It's written as 22 before 9.

The other instance is Character #365, an 8-ball figure (filled-in 0), standing for "T". The other filled-in character, #229, is a landmark. So is 365. Go out on the street and ask the first person you meet what "365" is, and he'll tell you it's the number of days of the year. "365" is a cue.

The first of August is Day 213, counting from New Year's Day. 2 is B, 13 is M. BM is Morse 100011, binary 35.

The next written communication from the Zodiac came on the 14th of October, three days after the murder of Paul Stine. He identified himself as the murderer of the taxi driver "last night". For someone to whom it was so important to communicate with the press about his homicidal doings, it seems rather incongruous that he should wander about for three days like Dagwood Bumstead with a hot letter in his pocket. Let's apply the same test, the Day of the Year.

11 October: Day 284: 284 is binary 100011100.

14 October: Day 287: 287 is binary 100011111.

In each case, the number is prefixed with the group 100011- (BM/35). 284 is suffixed with 100, binary number 4. 287 is suffixed with 111, binary 7, Morse MT or O. Four and circle. Moreover, the 14th of October is conventionally abbreviated as 10-14, the product of which two numbers is 140, binary 10001100, Morse BM I.

The fourth literary event of 1969 is more straightforward. The letter to Melvin Belli was postmarked on the 20th of December. That's Day 354. 35 and 4.

Did you notice that Melvin Belli's initials are MB?

Of the four literary events that took place in 1969, only one has been omitted from this discussion. That was the mailing, on the 10th of November, of both the pen-card and the 340-character cipher. The 10th of November is Day 314. The number of that day replicates the first three digits of the number pi. If you were to use those three digits as pi, to compute the circumference of the earth, you would be off by only eleven nautical miles out of 21,600. It's a very close fit.

(9)

MI

I theorized in the article that Z. had murdered CJB in Riverside in order to establish an analogy between San Francisco's Land's End and the Cornish one. The longitudinal distance between Riverside and S.F. is just about the same as that between Greenwich and Penzance, 5 degrees, 30 minutes.

This theory is supported by three readings. In one letter, Z. uses the forms "bought" and "boughten" in the same sentence. The letter-sum of BOUGH- is 53. -TEN is 10. 53×10 is 530. In the same letter, he spells "entirely" ENTIRLE. Leaving out the nulls I-R, the remainder is LE (53) and TEN again.

In his proposed geometric exercise, Z. said that it would be necessary to go out "4 inches along the radian". The police were -- and are still -- baffled by this statement. Fortunately, there is a geographic given that supplies an answer. On 5-30 West, at the intersection with 58 North ("radian" latitude), there is a body of water called The Minch. M is 13, and by casting out nines, it reduces to 4. I suggest that "4 inches along the radian" is a reference to this body of water. "Minch" begins with MI.

Z.'s choice of medium for his poem is likewise baffling, unless we take a cue from his quotation from "Down The Rabbit-Hole" and look on it, too, as a Lewis Carroll-quotation, namely, the Mad Hatter's enigma: "Why is a raven like a writing-desk?" Here's RAVEN in WIZARD:

R	A	V	E	N
I	Z	---	M	(V and E are nulls)

Z and MI.

The first Riverside letter was headed: BY-----. BY in Binary-Morse is 10001011, 139. 13 is M, 9 is I. MI again.

Z.'s Mt. Diablo clockface was a "magnetic indicator". MI again.

"Frunt" for "front": F and U are nulls, the rest translates in WIZARD as GMI. G is Morse 110, and it often stands for ME (110). ME MI.

Finally, the letter "Z", which Z. frequently used as a signature, is 1100 in Morse. MI is 11 00. Without the pause, they are identical. Z is MI.

103/ZMT

The Los Angeles Times letter, which is in many respects a marvel of composition, as will be discussed below, is written in 103 words. This would rate a "so what?" if it did not fit into a well-developed pattern.

The Hole Card (7 October 1970) has 13 holes punched in one end. There is a row of 10 followed by a row of 3. The 13-character cipher has a series of characters terminating in the singular umbrella, which is #10, followed by 3 more. The corrections in Line 2 of the "movie Badlands" letter: ~~ten~~ and ~~eensterati~~ -- 3 letters, 10 letters.

Describing the events following the Stine murder, Z. wrote that the police arrived in "two groups of parking". This makes no English sense. Here's PARKING in WIZARD:

P	A	R	K	I	N	G	(Nulls: P-K, R-I)
-	Z	-	-	-	M	T	

Z is a signature, MT is zero. Z-zero. And ZMT, written out as a Binary-Morse number, is 1100111, 103.

"Comitt" for "commit": it would have been the same spelled correctly, but he is drawing our attention to it by misspelling. With duplication, COMIT2. MT is 0, and with the other 0, 00, Morse letter "I". 00 is the subject of the sentence. The remainder, CI2, is 103. "I am 103".

The LA Times letter terminates with 17 and a cross. The reference is clearly to the form of the two large ciphers, "17 across". The same play on words appears in the body of the letter, in the phrase, "stumbling across". Read as STUMBLINGX, it fits into the pattern being developed here. Nulls: M-N, G-T. LXI (61), B (2), U (21), and S (19): 103.

Z. wrote in several places that he was collecting "slaves for paradise". Bear with me when I make the pronouncement that RED is a paraphrase for "circle" or "zero" -- I'll demonstrate it later on. PARADICE, with duplications, is PARDICE2. RED PI CA2. The CA2 is 103. 0 is usually used as a suffix. 103pi is 324, and the number being expressed is 3240, binary 110010101000. I'll come back to that, too.

Out of 16 Bay Area communications, a dozen went to the Chronicle. They flattered themselves that it was because of their journalistic excellence. It was probably because their ZIP Code is 94103. Z. affixed USPS stickers reading "Always Use The Correct ZIP Code" to several of his mail covers.

103/ZMT (2)

In his letter postmarked 20 July 1970, and in the first of the 1974 communications, Z. (mis)quoted from The Mikado. The police responded by screening all present and former members of The Lamp-lighters for suspects, needless to say, without success. Z. is a master of the implied clue; and what he was implying was the title. He never wrote the word MIKADO, least of all in Morse Code, which I'm going to do right here:

110010101100111

Note that the last 7 digits have the exact same form as 103/ZMT. The remainder, 11001010 (202), is identical to the first 8 digits of 3240, above: 110010101000. They both spell MIKE. The suffix on 3240, 1000, is the Morse letter "B". I suggest that MIKE B is an equation. The identity of "B" will be developed in a subsequent section.

07

As mentioned elsewhere, the second group of digits in the 13-character cipher can be read as Morse MT (zero) and as the binary number 7. I suggest that it be read as both.

In his first excursion into Gilbert and Sullivan, Z. misspelled "serenader" as "seranader". With duplications, it reads SERADN6. SN is a signature familiar from Riverside ("I am Not Sick" etc.). RED is 0, A (1) and 6 add up to 7. SN 07.

"Descise" for "disguise": DESC14. DISC is 0, E (3) and 4: 7.

07 has a biographical significance which will be discussed later. But it is also one of several Dante-quotes to be found in the literature. Circle 7 is Bulicame, the River of Boiling Blood, the eternal abode of the homicides.

BM/MB

In the first Riverside letter, Z. refers to his victim as "Miss Bates". It seems rather incongruous to be so formal about someone whose throat you've cut. It also stands out in contrast to the usage in the second Riverside letter: BATES HAD TO DIE. THERE WILL BE MORE. (complete text).

In December 1969, Z. wrote to Melvin Belli, putting on a bravura performance as the repentant mass murderer pleading for help. How sincere he was is indicated by the fact that he never responded to any of the overtures made by Belli. I submit that the sole purpose of the letter was to stress the letters MB.

In May of 1974, Z. wrote another incongruous letter to the Chronicle, incongruous because he was complaining about an ad for a film that, he said, glorified mass murderers, i.e., the "movie Badlands".

Elsewhere, I have shown that the cryptic sentence, "melvin eats bluber. . .nasty" refers to a USGS benchmark, BM 00. Z. frequently referred to the police with a Beatles-quote, "blue meannies". And finally, he threatened to commit multiple murders if the recipients of the three parts of the first cryptogram did not publish the text on 1 August 1969. I note that 1 August is Day 213 of the year, and that 2 is B, 13 M. The connection between this group of letters and the cryptogram will be discussed later.

"Wipeing" for "wiping": with duplications, WIPENG2. G (110) stands for ME. W (23), N (14), E (3), and 2: 42. G (110) 42pi: ME 132. 13 is M, 2 is B. In March 1970, Z. abducted a young woman named Kathleen Johns and her infant daughter, telling her that he was going to murder them both. She escaped. She had fallen into his hands after he disabled her car -- on Highway 132. The giant Bay Area clockface shows a time 22 minutes before the hour (8:38). The Timex left at the scene of the murder in Riverside was stopped at 12:22, 22 minutes after the hour. By the minute-hand, 22 minutes is 132 degrees of arc.

The LA Times letter, like several others, begins with the salutation, "This is the Zodiac speaking." I submit that it was used so often because a great deal of work had gone into its construction. With duplications, the text reads: THISEZODACPKNG 15. Nulls: T-G, H-S, Z-A, P-K. The remainder, translated into WIZARD:

I E O D C N 15
R V L W X M 15

BM/MB (2)

MLXV (1065), W (23), R (18) and 15: 1121. 1121 in binary notation:

10001100001

In that same letter, Z. writes two scatological phrases. Both appear in the right margin, both are scratched out. In Line 6, ~~fat asses~~, in Line 8, ~~fart~~. The first is, by letter-count, 3-5, the second is, as everyone knows, a 4-letter word. Binary 35 is 100011. Note that it is identical in form with the first 6 digits of 1121, above. The Morse numeral 4 is 00001. Note that it is identical with the last 5 digits of 1121, above.

Also in the LA Times letter, Z. refers to the police as "Blue Meannies", where his usual practice is to write the initials lowercase. By contrast, the proper noun "Riverside" is written lowercase ("riverside") in Line 13. "Blue Meannies" occurs in Line 4. BM in Morse ~~Kid~~ Code is -- without the pause -- 100011. 4 is, once again, 00001. He's made the same sequence, 10001100001, three different ways.

Z. to Melvin Belli: "Happy Christmass". "Christmass" is misspelled, and the traditional greeting is "merry", not "happy". With duplications, the phrase reads: HAPYCRISTM9. C(100), H (8), A (1), Y (25), R (18), S (19), and 9: 180. MT is "circle". And I'm going to read it as an equation: Circle equals 180π , 566. 566 in binary notation: 1000110110. Note the group 100011-.

In proposing tortures for future victims, Z. said he would love to hear them scream for "mercy". I am suspicious of all words beginning with ME-. C (100), R (18), and Y (25): 143, binary 10001111. Note the group 100011-.

"Sucide" for "suicide": in WIZARD, HFXRWV. ~~ME~~ XV (15), W (23), R (18), F (6), H (8): 70, binary 1000110. Note group 100011-.

MELVIN: ME (subject) LVI (56) and N (14): 70, 1000110. Note group 100011-.

"Cruze" for "cruise": Z (subject) C (100), R (18), U (21), E (3). Sum: 142, binary 10001110, beginning with 100011-.

Finally, the clock time 12:22 (Timex watch). 1222 is 10011000110. The prefix 1001 is binary 9, interchangeable with Letter #9, pronoun I. The remainder, 1000110, is familiar from the above examples.

BM / MB (3)

Z. misspelled "dangerous" in the August 1969 cryptogram as DADGERTUE. The group in which it terminates, -UE, occurs in several other places, e.g., in "fiygue" for "figure". In the latter word, there are the familiar F (6, 110, ME), I (ego), and GY (permutation on ME, discussed elsewhere). ME, I, ME: UE.

Z. played with stamps. On some communications, they are turned sideways, on others, omitted. I submit that STAMP is yet another paraphrase for "circle". S (19), A (1), and P (16): 36. 36 plus MT: 360. The copy of the first Riverside letter sent to the Press-Enterprise was franked with 2 3-cent stamps; the letter to the police had no stamp at all. Both can be read as saying the same thing. STAMP STAMP is 00, Morse letter "I". Zero STAMP is also 00. What I'm getting around to is the phrase, "swamped out" (which Z. said he was, which had kept him from writing). Apart from the fact that it is most likely a lie, it's peculiar English. I note that SWAMPED OUT contains the elements of STAMP and the WIZARD-nullis D-W. The remainder is 0, which taken together with STAMP gives 00, the subject "I", and a predicate, UE.

UE is, I believe, a Kabbalistic redivision of BM:

B	M
2	13
21	3
U	E

I mentioned BM 00 on Liberty Island, which can be read as BM I (an equation?). BM 53, the center of Z.'s clockface, says the same thing. As in other contexts, he quotes from the periodic table. Atomic No. 53 is iodine, symbol I. Finally, this phrase appears on the Halloween Card: "Peek-a-boo -- you are doomed!" By letter-count, it reads: 413 -- 336! The exclamation point is used here as elsewhere in its mathematical sense, denoting the factorial. $3 \times 3 \times 6$ is 54. 413 minus 54 is 359. 35 is binary 100011, Morse BM, 9 is I.

THE CAR-DOOR INSCRIPTION: \oplus FOLLOWED BY
A 35-CHARACTER TEXT. $\oplus = 4$; $35 = 100011$,
BM.

OH

I read the two dots on Z.'s map-symbol (Halloween Card) as saying, "I am at the center". As with other of his statements, it is both true and misleading. What is at the center of his scheme is Travis Air Force Base. It's a base. Bases are characterized by the hydroxyl group, OH.

The Minch ("4 inches along the radian") is found in a group of islands called the Outer Hebrides. OH again.

Z.'s "magnetic indicator" is a clock face on which 12 has been replaced by 0. 0 on a clock face is Zero Hour. OH again.

"Though" for "thought": OUGHT H. OH again.

Z.'s last letter was signed, "Red Phantom". RED is 0, MT is 0. 00 is I, ego, subject of sentence. The predicate is PAN OH. What is "Pan"? It's Polish for "Lord". And before you say anything else, reference to the Polish language is not far-fetched -- if, say, your mother was born and raised in Poland. More on that later.

Z.'s last letter during the first Bay Area period was the Lake Tahoe card, postmarked 22 March 1971. This sentence, with the acrostic emphasized, appears in the LA Times letter: "There Are A Hell Of A Lot More Down There", which doesn't seem to make any sense at all when read literally. The acrostic can be read, with duplications, as TAH03 and DLMT. DLMT will be discussed in another section. The 3, as usual, is interchangeable with "E". Why Tahoe? The word TEA is frequently used by Z. as a subject. Read as a Binary-Morse number, 1001, it's 9, corresponding to "I". Here, the sentence reads TEA OH. I am OH.

Z. wrote to the Examiner that Michael Mageau had spoiled his aim by "thashing out" with his legs. With duplications, the phrase reads: THASINGOU4. The sum of letters and numbers other than OH is 95. 95 is binary 1011111, which I read as 1 011 111, TWO. H TWO O. In the same letter, Z. said that he had sprayed his victims at Lake Herman Road "as if it was water from a garden hose".

Z. taunted the police, asking if they had found enough "clews".

C L E W S
X O V D H

OH and DVX. DVX is our second Dante-quote, and an illustration of how others in earlier times have employed number to conceal meaning. In Purgatorio 33, Dante predicts the coming of a "cinquecento diece e cinque" (515, Roman DXV), who will kick the French out of Italy, put the Pope in his place, and restore the Empire to its rightful role as supreme secular authority. DVX, the classical spelling

of the Latin "leader", is characterized by C. H. Grandgent as "an imperial leader ordained by God. . . ." It seems to fit the psychological picture.

In a letter postmarked 14 February 1974, Z. suggested that the Symbionese Liberation Army had taken its initialism, SLA, from the Old Norse verb slá (to slay, kill). By repetition and by the very goofiness of the suggestion, he was emphasizing the group, here translated into WIZARD:

S L A
H O Z

Z and OH. The word "slaves"; which is used a half-dozen times or so by Z., behaves the same way. V-E cancel out, leaving SLAS, WIZARD, Z and HOH. In the pen-card (11 November 1969), Z. said he was "So Lonely" (emphasis mine) that he might do "MY THING" (underlined several times and followed by 6 exclamation points). SL is WIZARD for OH. MY adds up to 38, THING is 58.

The "movie Badlands" letter was signed, "A Citizen". CITIZEN ~~XXXX~~ contains the signature "Z", CII (102), and TEN (10). The sum of the two numbers is 112, binary 1110000.

All of Z.'s box-scores contain the phrase, "SFPD 0". The sum of S (19), F (6), P, (16), and D (4) is 45, with the 0-suffix, 450. 450 in binary notation: 111000010.

"Fireing" for "firing": I and R are nulls. The remainder, with number-cumulation, FENG 2. Here it is in WIZARD: UVMT2. U (21), V (22), and 2: 45. 45 plus MT is 450, 111000010, as above.

In the first Riverside letter, Z. reports his conversation with CJB as follows: "When we were away from the library walking, I said it was about time. She asked me, about time for what?" I note that the word "walking" is far out of the position required by normal English syntax. I also note that it begins with "W", like the cluster of words at the beginning of the sentence. I am going to rewrite the sentence acrostically, substituting 1 for W-words, 0 for all others: 11100001000100.

This group appears in CITIZEN, SFPD 0, FIREING, and "When We Were. . . .": 1110000-. It is identical in form with the letters OH in Morse Code. The -10 suffix in SFPD 0 and FIREING is the binary number 2 (OH2). The suffix in "When We Were. . . ." is 1000100, 68, the Binary-Morse spelling of NINE.

OH (3)

Finally, Z. describes himself twice (Hole Card and LA Times letter) as "crackproof". With duplications, it reads: CRAKPOF6. P and K are nulls, leaving CRAOF6.

C R A O F 6
X I Z L U 6

Z is the signature. LXI (61), U (21), and 6: 88, binary 1011000. I read it as 1 0110 00, T PI. T is 20, and 20pi is 62.8318... . 31 is binary 11111, Morse numeral zero. As such, it's another paraphrase for 0 (this isn't the only instance). . 62 is 31×2 , in other words, 00, Morse letter "I". The part to the right of the ~~decimal~~ decimal point is 8 (H), 31 (0), 8 (H). "I (am) HOH".

BER/130

First Riverside letter: "I plunged the knife into her and it broke." It's a lie. The knife didn't break. BROKE: K is 11, 11 plus the 0 is 110, ME. The remainder is

Z. writes that he is on the look-out for his "nineth" victim. I suggest reading it as H IN TEN. Here it is in Morse:

1 0000 0 10
T H E N

10000010, base-10 130, can be redivided as 1000 0 010,

b6
b7C

Z. writes that coating his fingertips with airplane cement is an "efective" way to conceal his identity. V and E are nulls. EFCTIV3. The remainder: CI (101), F (6), T (20), and 3: 130.

This phrase appears on the Lake Tahoe Card: SIERRA CLUB. With the doublet R, SIERACLUB2. Taking out the remainder: CL (150), \$ (19), I (9), A (1), U (21), and 2: 202. 202 is binary 11001010, identical in form with the name (see above, under 103/ZMT).

The August 1969 cipher is 390 characters of English, 18 of anagram. I suggested in the article that 390:18 is proportionate to the internal division within the natural number pi. Actually, it's pi multiplied by 130. 3×130 is 390, $0.14159 \dots \times 130$ is 18.40... . The structure of the document is the key to reading the anagram, EBEORIETTFMETHHPITI. With duplications, it's E5, B, O, R, I3, T3, H2, M, and P. 5,3,3, and 2: 13. 13MT PI (130pi) is the form of the cryptogram. The remainder is (Binary-Morse 130) and OH.

I read it as an equation: 130pi equals

 translates into WIZARD as YVI. Z.'s first female knifing victim was found lying beside an ivy bed. His second was murdered at Lake BEFRYESSA.

The sentence, "When We Were. . . .", which I read as a concealed Morse message, OH NINE, is followed by a sentence of seven words, 26 letters. 26 is Z. The number of words in the sentence would be fortuitous if it weren't part of yet another subtle and frequently-repeated pattern.

In the desktop poem, the word "time" occurs twice, at the ends of Lines 7 and 9. TIME, once again, is a disguised form of the number 38.

On the back of the Halloween Card, Z. made a cross of the words SLAVES and PARADICE. In the quarters, he wrote four implements of death, fire, gun, knife, and rope, in that order. Reading them by letter-count, they are graphically arranged this way:

4	3
5	4

It's a magic square. Added up vertically or horizontally, it gives the sums 9 and 7.

Z. told his victims at Lake Berryessa that he had escaped from prison at Deer Lodge, Montana. DL, as discussed elsewhere, is the same sequence in Morse Code as NINE. MT, the postal abbreviation for Montana, is the Morse 111, which read as a binary number, is 7. The group DLMT also occurs in conjunction with TAHOE in the LA Times letter (see above).

One of the tortures Z. envisioned for future victims was forcing "pine splinters" under their fingernails and then setting fire to the wood. With duplications, it's PINESLTR 10. SL, WIZARD for OH, has a letter-sum of 31. SL (31) PI is 97. The remainder is TEN (10), R (18), and 10: 38. As with the occurrence of TIME (38) in the desktop poem, 38 appears in conjunction with 97.

In the Dragon Card, Z. complained that he didn't see any "Zodiak butons" "wandering about". Buttons don't "wander about". The phrase, with duplications: WANDERIGBOUT4. RED is 0, and together with the other 0, it's 00, Morse "I". The 4 stands here by itself, the 4 of the Zodiac sign and 4-58, the 4 of IVY, the 4 of 130 (1 plus 3 plus 0: 4). W (23), A (1), N (14), I (9), G (7), B (2), U (21), and T (20): 97.

The Melvin—"buton" was "nasty". Z. threatened to do something "nasty" if the Chronicle didn't ~~xxx~~ print the Exorcist letter. Here's NASTY in Morse: 10 01 000 1 1011. The same sequence, redivided: 1001 0001 1011 -- 9VY. 9 and I are interchangeable. The letter-sum of NASTY, moreover, is 79.

Here's a mathematical curiosity. Binary 9 is 1001, 7 is 111. Written in the same order as 9-7, 1001111, they express the base-10 79.

The Zodiac's last letter, the Count Marco letter, was postmarked 9 July, abbreviated as 7-9. The SLA letter was postmarked 14 February, Day 45 of the year. The other two 1974 postmarks express the numbers 29 and 58, as discussed elsewhere.

Here are the first three mystery words of the August 1969 cipher compared:

F	O	R	R	E	S	T		
D	A	D	G	E	R	T	U	E
M	I	T	H	E	M	O	I	N

The first six characters of all three words show this sequence: (C for consonant, V for vowel) CVCCVC. If you substitute 1 for C, 0 for V, 101101, it's base-10 45. Read the same way, the remainders T (1), TUE (100), and OIN (001) correspond to the Morse letters T, D, and U. T (20), D (4), and U (21): 45. Read as a binary number, 1100001, it's the base-10 97.

The remaining mystery words, IATHAE and SLOI, can be read as combinations of 9. I is 9. HA is 8 plus 1, 9. TEA is binary 1001, 9. SL is 31, binary 11111, Morse zero, taken together with 0, 00, Morse I, number 9. And the final I is another 9. I, HA, TEA, SL/00, I: five 9's. 5x9: 45.

The second large cipher -- if it is a cipher -- dated 11 November 1969 is usually referred to as "the 340-character cipher". It is, like the first one, written in straight, neat lines. The characters line up in neat columns. I submit that no one has ever sat down and jabbed his finger at each and every character to count them up. We know the second cipher has 340 characters because the form itself suggested the method of counting: multiplication. 340 is 20x17, the number of lines times the number of columns. The first cipher was written in the same format, but with 24 lines rather than 20.

Z. manipulated the number of cipher-symbols used for frequently-occurring letters so as to make Q the most frequently-used symbol. Q is letter #17. On the Hole Card, postmarked 10-7, he pasted the phrase, "Fk. I'm crackproof." F is 6, K is 11. The postmark, expressing the sum of 17, would be fortuitous if it weren't for all the heavy-handed hammering on the number. But in all these instances, 17 is only implied. The number, written "17", occurs explicitly in only one place: the letter to the Los Angeles Times.

97 (3)

Do you get it? 24 times 17? 20 times 17? Los Angeles Times 17?

Here's TIMES 17, written in Binary-Morse (binary 17 is 10001):

10011000010001

It's the base-10 9745.

Here's another phrase from the Hole Card: "It was horrible." With duplications, ITWASHORBLE4.

IT (11) S (19), W (23), and 4: 97. The remainder is an anagram for [REDACTED].

NAMES

"Waveing" for "waving". V and E are nulls. The remainder, in WIZARD: Z and MTRD. MTRD is ORD, the 3-letter code for [REDACTED] Airport in Chicago. I note that Chicago is half-Polish and is commonly called "the windy city".

Z. quoted from the illustration accompanying the chapter, "Down the Rabbit-Hole". [REDACTED]

This phrase appears on the Lake Tahoe Card: PASS LAKE TAHOE AREAS. LA is the Kabbalistic sum adding up to M (12 plus 1); TEA is binary 1001, base-10 9, letter "I". LA and TEA are the disguised forms of M and I (see section on MI, above). Taken with the remainder, they anagrammatize [REDACTED] PA ASS.

b6
b7C

Z. addressed his letter to the Press-Enterprise "to the editors", giving the name of the paper, its street address, the name of the city, and the ZIP Code. By contrast, the other copy, which went to the police, was addressed simply, "Homicide Detail". The phrase is isolated graphically. So are the two signatures, RH on the poem, Z on the second letter. I know this is cheating, but I think he's not above bending the rules. A is the WIZARD for Z. HOMICIDE DETAIL, RH, and A: anagram for [REDACTED] DID IT.

* >

The 340-character "cipher" is made up of block letters, geometric forms, and the 6 dots discussed elsewhere. I assumed from the start that the puzzle is not a cipher at all, or else it would have been broken long since. I also assumed that it was not meaningless. Nothing else in the literature is without discoverable meaning, so why would this message be any different?

* The letter count of the first Riverside Letter is 1623, 11001010111, 11 00 101 0 111. The [REDACTED]

letter is obviously padded — apparently to bring up the count to a particular number.

NAMES (2)

It seemed logical that if Z. were going to give out any incriminating information, ~~he~~ he would not do it in a breakable cipher. Given that the whole Zodiac problem involves at every turn rapid changes in perspective designed to bewilder the onlooker, it seemed logical that he would change the rules, writing a message that appeared to be a cryptogram, and following a real cryptogram, whose purpose was to create the expectation that all cryptic-looking messages would be written in cipher.

Noting that there were two main classes of characters, and that the theme of casting out nines was a major one in the literature, I divided the text -- other than the dots -- into forms expressing angular measurements divisible by 9, including C, L, O, and X (semicircle, right angle, circle, and cross). Just for good measure, I threw in the letters I and R (9 and 18). They constitute one class, all other block letters another.

Assigning 1 to the nines-class and 0 to the all others-class, these sequences emerged: Line 7 contains a 15-digit sequence having the same form as the word MIKADO. Lines 1 & 2, up to Dot 1, contain a sequence having the same form as ERAHOMBIKUE. ERAHO is OHARE backwards. MB is a familiar group, as is UE. IK occurs now and again, sometimes in its WIZARD-form, RP (return address on Count Marco letter). The letter-count of the poem, for instance, is 197, 11000101, [] IK appears to be a predicate formed from the name []

b6
b7C

This is where cryptanalysts and I part company. The pauses required to differentiate between groups of Morse characters are absent, requiring subjective input in reading. And for that matter, I had to make a number of assumptions, including that it was written in Morse at all. This criticism is intellectually valid, and I can attempt at best only conjectural readings for the remainder of the text (which I take to be filler material, since the real message is TIMES 17/9745, expressed in the form). Even so, the preponderance of evidence from other sources seems to me to favor these two readings. In MISCELLANEOUS, next item, I'll shore up the data.

MISCELLANEOUS

Line 2 of the Riverside poem: "Cut clean, if red! clean". I know, I said "E" is 3. There must have been a time, however, when it had its common value of 5. I believe that "red" as a paraphrase for "circle" is what linguists call a "fossilized form" left over from those halcyon days. The clue is the ! following the word in the poem. I read it as the sign of the factorial. RED!, then, is $18 \times 5 \times 4!$: 360. This reading will be supported by other evidence.

MISCELLANEOUS (2)

This sentence appears in the first Riverside letter: "She was then very willing to talk with me." I can't take anything he says at face value, and so I am going to read it as a concealed Morse message, W for 1, all others 0: 010010010. It has the same form as RED 2 (010 0 100 10 -- binary 2). And there it is, "red" in Line 2.

The word "clean" is a doublet. I'm going to strike it, replacing it with a numeral 2:

CUT IF RED CLEAN 2

I've underlined a familiar word appearing in the acrostic: CIRCLE. The letters F and U are nulls.

CT I RED CLEAN 2

By rights, I and R should cancel out as well. But I believe that the imperative to write the word "circle" takes precedence over such niceties. As far as I know, it's the only time "circle" appears in the literature: everywhere else, it's expressed as a paraphrase (MT, ought, disc, luna, zero, etc.). To get to the point, here's the anagram:

DANTE CIRCLE 2

If you don't remember your Divine Comedy, the active ingredient in Circle 2 is wind.

"Buton" for "button". BUTON in Binary-Morse: 1000001111110, base-10 4222.

ME RY, GY UV, etc.: ME 43.

Z.'s box-score in the Exorcist letter: ME 37. ME, Morse 110, is base-10 6. Read as a rebus, ME 37 is 6 before 37, i.e. 31. A person born in 1943 (see ME RY, above) would have been 31 in 1974, when that letter was postmarked.

The 340-character cipher was accompanied by a greeting-card with a pen-motif. On 28 April 1970, Z. sent the Chronicle another purchased card with a dragon-theme. Nobody has ever put the two together: PEN and DRAGON taken together express the family name of King Arthur.

"Xmass" for "Xmas": X marks the spot. The spot is Mass.

MISCELLANEOUS (3)

As discussed elsewhere, PLEASANTON, where Z. dropped the LA Times letter, is an anagram for N POLE SANTA. Z.'s lengthy quote from The Mikado was the patter-song, "I've got a little list". I note that "list" in the nautical sense means a deviation from the vertical. The letter chosen by Z. for Morse dash in the first Riverside letter is W, letter #23. The North Pole has "a little list", to wit, one of somewhat more than 23 degrees.

BRASS TACKS

Meet [redacted] [redacted] and the
[redacted] nicknamed [redacted] DOB:
[redacted] [redacted] was born on [redacted] in [redacted]
Poland. Since 1960, when he began his studies at Harvard, [redacted]
has resided in Cambridge, Massachusetts.

b6
b7C

*Equation: BM = 4

BRASS TACKS (2)

b6
b7C

The initial sequence, 110000111 [] expresses the base-10 number 391. In the 340-character cipher, we saw a mini-IQ test: 29, 116, and 232 implying the missing 58. (Dot 2 200) is the Binary-Morse spelling of []. Using the number 391 in a similar test of mental acuity, we would have 782 (391×2) and 195.5 ($391/2$). Counting Riverside as zero, the next Zodiac murder takes place on Day 782 (Lake Herman Road); the next, counting from LHR as zero, on Day 196 (Blue Rock Springs).

I have already suggested that [] "4" is 130 [] by means of casting out nines, as well as IVY (WIZARD for [], a pun on Roman IV (IV Corps, US Army, uses the ivy leaf as its unit emblem). "58", paraphrased as "radian", appears to stem from the fact that OHARE is spelled in Morse with 5 dashes, 8 dots. Here's a hypothetical crypto-sentence: ME radian. That's 6 radians: 343 degrees. 343pi is 1077. Counting from Riverside, the San Francisco murder falls on Day 1077.

About the time of the Riverside murder, [] (published []) about his wind-tunnel tests on a model of Green Tower, the earth sciences building at MIT, which was plagued by wind-related problems. The title: [] []. The acrostic of capitals, reading MI as a break, W for 1, T for 0, gives a typical Zodiac message: ME I.

The word TOWER in Binary-Morse is 11110110010, base₁₀ 1970. And the word-count of the text (excluding captions) is exactly 1970 words. That's some coincidence.

In the text, the author discusses the effect of the wind on the boundary layer surrounding cylindrical objects, pointing out that this action has the effect of scouring out a hole in the snow. The Lake Tahoe Card shows a mass of snow in a stand of

BRASS TACKS (3)

trees. Z. punched a hole in the snow.

In addition to an excursus on the subject of "model beams", MHOH includes as his sixth caption, "Manifold Benefits". 6 is 110, ME. ME MB.

He uses the word "zephyr" to describe the violent winds found in the vicinity of Green Tower. It's inappropriate; Zephyr is traditionally a gentle wind. Curiously, the Latin zephyrus has exactly the same form -- but a different gender -- as zephyrum, "zero". He also falls back on inappropriate diction when he refers to the fittings on doors damaged by the wind as "door hardware". While it is understandable, architects' jargon is "fittings", not "hardware".

DOOR HARDWARE: D2 02 R3 H A2 E W
D and W are nulls. 2,2,3, and 2: 9

Perhaps the most damning piece of evidence in the whole article is the scale of the model. It's 130 to 1. The author points out that wind-speed must be scaled down in proportion to the model being used, in order to get realistic results. For instance, he says, if you used a 30-mph wind in a tunnel test on a 130:1 model, the effect would be the same as on a full-size building of a 3900-mph wind. 130x30 is 3900.

130 as a scale appears to be an arbitrary choice of number. 30, as expressing wind-speed, is apparently plucked out of the air.. 130 is the Binary-Morse spelling of the author's mother's name, and 30 is binary 11110, the Morse numeral 9. Their product, 3900, is the number of the house on Washington Street in front of which the Zodiac murdered Paul Stine.

These features show up here and there in other writings of [redacted], although not in such concentration. In an article published in a student periodical in 1964, [redacted] wrote of the need to teach people "how to see"; the appreciation of form was something that was lacking from the mental vocabulary of even the best-educated Harvard grad. He was principally concerned with what he called "meta-writing", i.e., writing whose formal content transcended the verbal content of the text. This was in the context of discussing a new Visual Arts Center at Harvard. The sample courses [redacted] listed were numbered 132 and 140. 132 is MB, 140 is Binary-Morse for BMI. He was editor of the publication in which the article appeared. Its title was [redacted] [redacted]
[redacted]

b6
b7C

Lake Tahoe Card: SOUGHT VICTIM 12. CVII (107), S (19), and 12: 138. OUGHT is 0, MT is 0. 00138, with the doublet 0, is 02138. That's the ZIP Code that supplanted Cambridge 38 as a postal zone.

BRASS TACKS (4)

The first period of the Bay Area literature ended in March 1971, with the LA Times letter and the Lake Tahoe Card. The first was postmarked on the 15th, the second on the 22nd. On the 15th, BM's age in days was exactly 23200, on the 22nd, 23207. 232 is 4x58. 00 is "I", 07 is, among other things, the year of her birth. 458-0/7 are the numbers expressed by the 13-character cipher. "I" is an oblique shorthand for [] "58" an oblique form of []

Z.'s return in 1974 seems to have been motivated by his having turned 31, 11111, zero. The first 1974 letter quotes Ko-Ko as singing "titwillo". Until I pointed it out to them, the sheriff's department up here hadn't been aware that "willo" was a misspelling. (ME: "He left off the W." Captain Narlow: "What do you mean? There it is, plain as day: W-I-L-L-O.") TIT is another way of reading 1001, binary 9, pronoun I, subject of sentence. WILLO, in WIZARD, is an anagram for LORD 0, "Lord Zero". I know, L and 0 should drop out as nulls, but hell, there are things more important than mathematical niceties. The "truley" of the salutation, read in WIZARD, gives VF and BIG 0. VF occurs five times in the 340-character cipher as a symbol-group: it's the WIZARD-form of UE, used here as filler. I read BIG 0, LORD ZERO, and the 31 implied by ME 37 as the same thing: 1974 was the year in which Z. came, in a manner of speaking, full circle.

"Extreamly": LX2 MT YEAR. 62 was a zero-year. 1, 9, 6, and 2: 18; 1 and 8 is 9, and 9 is zero. The next zero-year was 1971, in which Z. ended his first string of correspondence. His brief re-appearance came in the year in which he was zero, i.e. 31.

b6
b7C

[] work for [] in his specialty would have required the use of very large wind-tunnels. Ames Research Lab suggests itself as the logical connection.

The Zodiac rampage appears to have been conceived as a gigantic and sensational conceptual art-work in emulation of his artist-mother. The readings 1000110 (70) and 10001110 (142) are different ways of saying BM 2 (BMx2, BM2). HAPPY CHRISTMAS, 1000110110, has the same form as BMETTE. It also appears to have been a putting-into-practice of his express desire to engage in "meta-writing".

By the way, contemporary photos of [] show a remarkable resemblance to the picture on the wanted poster.

xxx

Afterthought: On [] 36th birthday, [] was 0. 36 plus 0: 360. On that day, he was 228 days old. Z.'s letter to Kelvin Beili was addressed to "228 MTG".

4/20/72

To
From



Boston FBI

I talked to [redacted] of the Newark FBI office today and he explained that you would not be sitting in at our 4/30 conference in Boston.

Hawkins. I am enclosing the latest materials from [redacted] re the Zodiac / [redacted] scenario since you have a complete set of previously received data, and you indicated that the FBI would be willing to forward the material to Washington to an FBI center where the [redacted] binary theory, banditizing etc. could be checked out by some experts.

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I truly would appreciate your doing this, as one part of establishing this connection as a plausible, or non-plausible, theory.

I will be endeavoring to:

- (a) Have perhaps Middlesex A.I.s office investigate O'Hearn background and whereabouts during the time of the Zodiac Killings & letter
- (b) Have Harvard Police continue to check airline manifests to see if [redacted] can be placed on a 1/20/71 flight from Newark to Logan (he could have used an alias)
- (c) Develop an approach so that perhaps [redacted] would consent to a Police interview

Rec'd 4/29/82

24 April

Dear [redacted]

Thanks for sending the material. I agree with you about the ~~xxx~~ dozen amaritas, but fear it would not have been a large enough dose.

I did get his 5th-anniversary report. It was 354 letters. If you look back through the shipment of stuff I first sent you, you will find a treatment of the 35/4 theme. This one is 1516 letters, binary 10111101100, which I read as 1011 110 1100, YG Z. YG is an alphabetical permutation on ME, and I think you have a full page of examples of that one, also from the first shipment. There's also "Biggest Mealiest Zucchini" (BM Z).

[redacted] is his mother-in-law. The autograph from Vermont is taken from a trust deed; the in-laws were buying 5 of his 115 acres. That's an interesting point. By selling them that parcel, he reduced the size of his acreage to 110, that's ME in Morse. The cabin which he built is 20x22 feet; that's a little odd, since builders generally use 4-foot modules. In other words, 20x24 would have been more in line with building practice (materials come in 4-foot widths). 20x22 is 440, binary 110 11 1000, ME MB. He changed the setback of the cabin from 45⁵ to 70 feet, 70 being BMx2. He negotiated himself a purchase price of \$9700, 9-7 being his mother's birthday. He probably put a 38-degree pitch on the roof. He kept the Vermont property in the divorce settlement, [redacted] kept the house on [redacted]

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The Vermont phone number is interesting. [redacted] is binary [redacted], the underlined part being BM in Morse. There are 500 numbers in the first 10,000 -- the number found in each telephone exchange -- that begin with 100011-. So the odds are about 20 to 1 against his getting a number at random that spells his mother's ~~xxx~~ initials. I don't know what to make of the suffix, -111001, unless you read it as a number, 57. That is the number of whole degrees in the radian angle.

Speaking of angles, I'm enclosing a geometric analysis of the Rabbit-Hole figure from the Exorcist Letter. The cast of characters is the same as in the Bus Bomb Diagram, [redacted] and references to Riverside.

The reaction to the ZIK's is interesting: utter silence. I sent copies to SFPD, the SF DA's office, the FBI, Vallejo PD, and Napa Sheriff's Dept. In two weeks, the only party to call is Vallejo PD, the only police agency ~~is~~ that is not on record as saying that I'm full of it. And they have called three times just to ask if they can call back again later -- no substantive questions.

Best to you.

COPY

✓-1-B2

23 is a thematic number from Riverside. He was 23 at the time, the Poles are tilted 23° out of perpendicular. He uses W as dash in the sentence "When We Were away from the library..." (OH NINE) ~~and he counted addresses on the two corners of the first letter were~~ ~~was the best satirical com-~~ 38 and 23 letters ~~that I have ever seen.~~

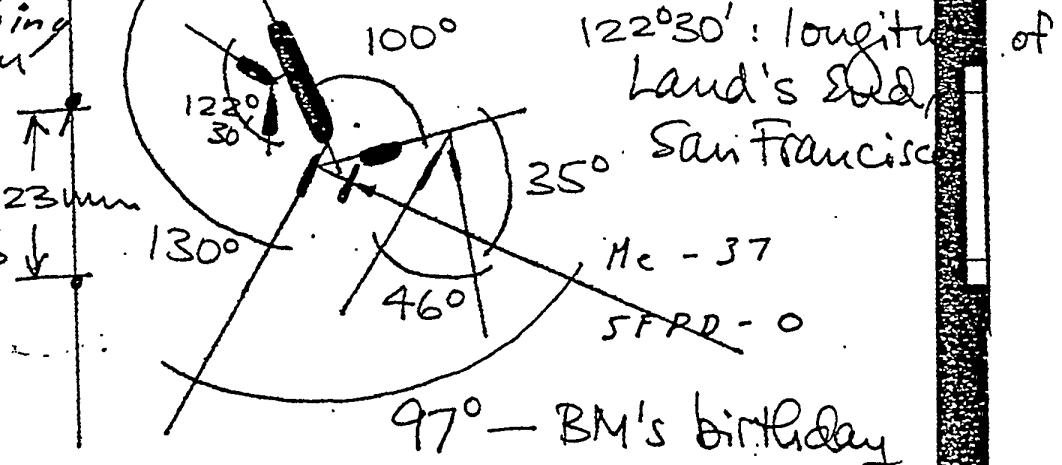
Signed, yours truly:

He plunged him self into
the billowy wave
and an echo arose from
the succides grave
tit willo tit willo
letter #23 tit willo

100: 110 0 10.0
130: 1000 0 010
35: 1000 "
46: 1011 10

b6
b7C
YN

23° ,
 23^{mm} , doing
letter #23 in
the same
figure -
no accident!



JAN 24

NB: The apexes of the two right-hand figures just touch the next leftmost figure, an effect that doesn't happen by coincidence

Rec'd 4/29/82

CHRONOLOGY - Zodiac Killings - California

30 October 1966: murder of Cheri Bates, Riverside.

29 November 1966: first Riverside letter.

30 April 1967: second Riverside letter.

20 December 1968: Lake Herman Road murders. (David Fannady & Betty Lou Jensen)

4/5 July 1969: Blue Rock Springs murder (Darlene Ferrin).

Last week of July 1969 (exact date not known to me): cryptogram mailed to Chronicle, Examiner, Times-Herald. Author identified himself as assailant at Lake Herman Road, Blue Rock Springs.

27 September 1969: knife-murder at Lake Berryessa. (Cecilia Shepard / Anyam Hartnell)

11 October 1969: murder of Paul Stine, San Francisco.

14 October 1969: letter to Chronicle, identifying Stine's murderer as North Bay "cipher killer." Author included piece of Stine's shirt-tail to authenticate letter.

10 November 1969: 340-character "cipher" from the Zodiac.

20 December 1969: letter to Melvin Belli.

20 April 1970: Bus Bomb letter.

28 April 1970: Dragon Card.

28 June 1970: Mt. Diablo Map and letter.

20 July 1970: Mikado Letter.

6 October 1970: Hole Card (the one with 13 holes punched in it).

27 October 1970: Halloween Card.

15 March 1971: Los Angeles Times Letter.

22 March 1971: Lake Tahoe Card.

29 January 1974: Exorcist Letter.

14 February 1974: SLA Letter.

8 May 1974: Movie Badlands Letter.

9 July 1974: Count Marco Letter.

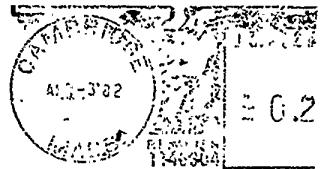
Copies to receive
of previous material

- b6
- b7C
-
- FOJ

b6
b7C

DSP Defense Space Group
500 Washington Avenue
Nutley, New Jersey 07110

CRIME PREVENTION
BELONGS
TO EVERYONE



E 0.2

Federal Bureau of Investigation
Attn. [redacted]
JFK Federal Office Building
Boston, Mass. 02203

These are letters received in the Zodiac case. It has not been definitely established that all of these letters were written by the Zodiac.

105907

NAPA COUNTY SHERIFF'S DEPARTMENT

70 CO. 1 SE 1EN	7-14-69	SITUATION
217 P.G.	ASSAULT WITH INTENT TO COMMIT MURDER	TYPE OF INCIDENT
HARTNELL, BRYAN CALVIN SHEPARD, CECELIA ANN		

The assigned Officer was advised by Station 1 at 7:13 P.M. to respond to Lake Berryessa area in response to a double stabbing. While leaving the Napa area, the assigned Officer learned that Park Ranger [redacted] was presently at the scene of the double stabbing, the location being approximately 1/2 mile North of Park Headquarters on the shore line of Lake Berryessa. Park Ranger [redacted] was reporting that a young male and female had been stabbed and the suspect had escaped.

The assigned Officer and Deputy [redacted] of the Napa Sheriff's Department arrived at approximately the same time at the scene of the stabbing and the following was learned.

The two victims as listed on the face sheet of this report were laying on a blanket near the shore line. The girl with her head in the boy's lap ~ at approximately 6:30 P.M., 9/27/69, they noticed a subject approach the with a dark hood over his entire head and shoulders and on the front of hood, at approximately the center of the chest, there was a symbol descr as a cross hair symbol. This would be an even cross over a circle. The suspect appeared to have had dark glasses on and a small portion of brown hair appeared to show through the eye holes. The suspect stated to the victims, "I want your money and your car keys, I'm an ex-con from Montana, Deer Lodge. "I have a stolen car and I have nothing to loose." The suspect

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CONT'D

REF ID: A12345	[redacted]	[redacted]	mm	9/29/69	[redacted]
SEARCHED	<input checked="" type="checkbox"/>	INDEXED	<input checked="" type="checkbox"/>	SERIALIZED	<input type="checkbox"/>
FILED	<input checked="" type="checkbox"/>				

NAPA COUNTY SHERIFF'S DEPARTMENT

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217 P.C. ASSAULT WITH INTENT TO COMMIT MURDER

HARTNELL, BRYAN CALVIN - SHEPPARD, CECILIA ANN

at this point was pointing an automatic gun at the victims. At this point, the male victim stood up and was told to get back down on the blanket by the suspect. The victim refused to do so and the suspect moved in with his pistol and ordered him back down on the blanket, which he did. At this time, the suspect took out of his jacket many pieces of what appeared to be plastic clothes line, in lengths of approximately 2½ to 3 feet. The suspect gave several pieces of this material to the female victim and ordered her to tie her boyfriend up which she did loosely. The suspect then tied the female victim up, securely, and doubled checked the knots on the male victim and retied them after finding them loose. It is not clear at this point whether or not conversation was had between the victims and the suspect, but at this point, the suspect began stabbing the male victim in the back area approximately center, a total of ten times. The male victim pretended to be dead and the suspect stopped. Suspect then turned to the female victim and began stabbing her in the back approximately 3 times and then somehow the female victim was turned over, and she was again stabbed approximately 4 times in the front area, once in the area of each breast, once in the groin area, and once in the abdomen area. The female victim then pretended to be dead and the suspect quit stabbing. Without further conversation, the suspect then walked away from the scene of the stabbing.

CONT'D

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NAPA COUNTY SHERIFF'S DEPARTMENT

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70 CODE SECT 18

217 P.C. ASSAULT WITH INTENT TO COMMIT MURDER

73 VICTIM'S NAME: [REDACTED] MIDDLE: [REDACTED]

HARTNELL, BRYAN CALVIN - SHEPARD, CECELIA ANN

The male victim stated they laid for a short time and then began untieing the plastic material that had been tied around their arms and on their bodies and soon had all the material removed; however, then became faint from loss of blood and realized the seriousness of their wounds. The male victim began hollering for help and approximately 15 to 20 minutes after beginning to holler for help, a fisherman came up in a boat and asked what was wrong. The male victim replied they had been stabbed and robbed. The fisherman in the boat then left to get help.

The fisherman in question is hereby identified as [REDACTED] Chinese

Male Adult, age [REDACTED] DOB [REDACTED] home address [REDACTED] San Francisco.

[REDACTED] stated that he waited approximately 10 to 15 minutes after hearing the cries for help before checking to see if it was a legitimate cry for help and once notified by the victim that there were injuries he immediately proceeded to Rancho Monticello Resort, the resort that he was staying in, and notified the resort owners there so that the proper authorities could be called.

[REDACTED] and [REDACTED] from Rancho Monticello with Park Ranger [REDACTED] and the Chinese witness left by boat and proceeded to the location of the stabbings. At the same time, Park Ranger [REDACTED] left Park Headquarters after being notified of the call, drove into the area and approximately

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CONT'D

REPORTING OFFICER:	[REDACTED]	[REDACTED]	MM	9/29/69
FURTHER ACTION:	<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NAPA COUNTY SHERIFF'S DEPARTMENT

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CODE SECT 217

217 P.C. ASSAULT WITH INTENT TO COMMIT MURDER

73 VICTIM

HARTNELL, BRYAN CALVIN - SHEPARD, CECELIA ANN

300 yards off the road found the male victim lying along side the road. The male victim was picked up by Park Ranger [redacted] and taken back to the scene. At this point, the boats arrived with the aforementioned people. The assigned Officer arrived at approximately 7:45 P.M., observed the scene, got the victims in the ambulance on to the way to Queen of the Valley Hospital and began the investigation.

While the assigned Officers were enroute to Lake Berryessa at 7:40 P.M., Napa Police Department reported on an APB, stating that they had just received a telephone call from a male voice, young sounding, possibly early 20's, stated very calmly to the Police Dispatcher "I want to report a murder, no a double murder". They are two miles North of Park Headquarters, they were in a white Volkswagen Carmen Ghia". There was a pause at which time the Dispatcher asked "where are you?" and in response in a low barely audible voice came, "I'm the one that did it" and then the Dispatcher could hear the phone being put down but not hung up. This number was traced and found to be the telephone pay booth at the Napa Car Wash on Main Street. After securing at the scene of the stabbing, the assigned Officers then began to check Knoxville Road for the location of a white Carmen Ghia, which was in response to the telephone call the Police Department had received.

The parking area, approximately 3/4 of a mile from where the victims had

CONT'D

REPORT NO.	[redacted]	[redacted]	MM	9/29/69	PERIOD
SEARCHED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X		
SERIALIZED	<input type="checkbox"/>	<input type="checkbox"/>			
INDEXED	<input type="checkbox"/>	<input type="checkbox"/>			
FILED	<input type="checkbox"/>	<input type="checkbox"/>			
APR 1969					

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NAPA COUNTY SHERIFF'S DEPARTMENT

Page -5-

2:7 P.C.

ASSAULT WITH INTENT TO COMMIT MURDER

HARTNELL, BRYAN CALVIN - SHEPARD, CECELIA ANN

been attacked, which would be the parking area for this section of the shore line. A white Cammer Ghia was found with Oregon license #4U2040. This vehicle was locked. Upon close examination it was found by Deputy [redacted] that a message had been written on the right door of the vehicle.

The message was as follows: AT THE TOP OF THE DOOR PANEL AND TO THE CENTER WAS A CIRCLE AND AN EVEN SIDED CROSS, RUNNING COMPLETELY THROUGH THE CIRCLE ON ALL FOUR SIDES. BELOW THE CIRCLE AND CROSS WHICH IS DESCRIBED AS A CROSS HAIR SYMBOL THE WORD VALLEJO. BELOW THE WORD VALLEJO, THE DATE 12/20/68. BELOW THAT THE DATE 7/4/69. BELOW THAT THE WORD "SEPT. 27, 69- 6:30. BELOW THAT IN PRINTING BY KNIFE. This was written in black ink that appeared to have been put on with a felt pen. This entire area and vehicle was then sealed off for evidence.

Close examination by Deputy [redacted] revealed a distinctive foot print leading up to the vehicle where the writing had been put on the door and leading away. These same foot prints were later found to lead down to the scene of b6 b7C the stabbing and back up the hill to the road.

The crime scene was turned over to Detective Sergeants [redacted]

[redacted], and [redacted]. Captain [redacted], Chief Detective, and Captain [redacted], Patrol Captain, were both at the scene supervising and directing.

The victim's personal belongings that were left at the scene of the stabbing

CONT'D

mm 9/29/69

X

X

X

105907

NAPA COUNTY SHERIFF'S DEPARTMENT

Page -6-

217 P.C. ASSAULT WITH INTENT TO COMMIT MURDER

HARTNELL, BRYAN CALVIN - SHEPARD, CECELIA ANN

after the ambulance had gone were turned over to the Detectives, which consisted of one army field jacket with the male victim's name on it; one car blanket, multi-colored, wool; male victim's shoes; female victim's glasses; one key; one book, party jokes; one box of partially used prophylactics.

This entire case has been turned over to the Detective Bureau, Napa County Sheriff's Department.

DEPUTY [REDACTED] :mm
9/29/69

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:mm 9/29/69

[REDACTED] X X X [REDACTED]

NAPA POLICE DEPARTMENT

SUPPLEMENTARY REPORT

OFFENSE

COMPLAINANT

ADDRESS

Additional details of offense, progress of investigation, etc.

At 7:40pm, 9-27-69, received a telephone call on line one of the Napa Police Dept. switchboard. I answered with, "Napa Police Dept., Officer [redacted]" A male voice, young sounding, possibly early twenties stated calmly, "I want to report a murder, no, a double murder. They are two miles North of Park Headquarters. They were in a white Volkswagen Karmen-Ghia."

There was a pause at which time I ask, "where are you now?" In a voice barely audible came, "I'm the one that did it." I could hear the phone being put down but not hung up. I ask "Is anyone there" about twice but received no reply.

I could hear the line was still open because I could hear traffic passing the phone and for some reason I got the impression there were people near or around because I seem to recall hearing feminine voices in the background, however at the time I was in the process of phoning the Napa Sheriffs Office with another phone and with radio transmission it was hard to tell.

I informed the S.O. of the call and then phoned the operator to see if the call could be traced. An operator stated that this was a 255 pay phone and that the man had refused to give the number when he placed the call. This lead me to believe that he had dialed the operator and asked for the Police Dept. at which time she ask him for the number he was calling from and he refused to give the number.

The operator in charge said she would try to find where it came from and she would hold the line open until its origin could be found.

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[redacted]
Napa Police Dept.
9-27-69

NA. COUNTY SHERIFF'S OFFICE
NAPA, CALIFORNIA

STATE OF CALIFORNIA

AFFIDAVIT OF _____

COUNTY OF NAPA

ADDRESS _____

TAKEN AT _____

I, [REDACTED], voluntarily give this affidavit to _____, who is known to me as an Officer for the COUNTY OF NAPA, representing THE NAPA COUNTY SHERIFF. I and [REDACTED] were patrolling near Pope Creek Bridge on September 27, 1969, when I received a radio call, at 7:00 P.M. from Berryessa Headquarters stating that someone had been stabbed and to meet the complainant [REDACTED] at Rancho Monticello Launching ramp, Berryessa. Complainant told me the apprex. location of the stabbing. I told my partner [REDACTED] to go with the complainant to the scene by boat and I would go by [REDACTED] b6 b7c Leaving Rancho Monticell I call the Napa Sheriff's Office by radio and requested they send up another unit. After I left the County road and was on my way to the scene and Lake Shore, I found a subject sitting in the grass on the rightside of the road. Subject was very bloody around his back and abdomen. Subject was saying "HELP ME, HELP ME,". I stopped the truck and get out to talk to the victim (later identified as Bryan Calvin Hartnell. The victim said, " don't bother with me, my girlfriend is Hurt much worse. I asked were he was hurt and he stated he had been stabbed in the back, I looked at his wound's, which had stopped bleeding [REDACTED]. I then assisted the victim to my truck and tryed to make him comfortable. I then got into the drivers seat and asked the victim where his girlfriend was. The victim mumbled something and pointed down the road towards the lake. I went about 100 yds down the road and the victim pointed to an Oak tree. I have read the foregoing affidavit and, under penalty of perjury, certify that it is true and correct to the best of my knowledge.

[REDACTED] SIGNED _____ Date _____

Page No. _____ of a _____ page affidavit.

NA COUNTY SHERIFF'S OFFICE
NAPA, CALIFORNIA

STATE OF CALIFORNIA

AFFIDAVIT OF _____

COUNTY OF NAPA

ADDRESS _____

TAKEN AT _____

I, _____, voluntarily give this affidavit to _____, who is known to me as an Officer for the COUNTY OF NAPA, representing THE NAPA COUNTY SHERIFF. tree and said she is ever under the tree. I drove to the tree and observed my partner [redacted] walking towards the second victim, Miss Shephard, who was laying on a blanket near the shore line. At this time Hartnell collapsed in the seat of my truck. I went around the truck and took the victim Hartnell out of the truck and laid him on the ground and covered him with a blanket. [redacted] was doing what he could for the second victim Miss Shephard. From this point on I was in the truck answering the rad [redacted] b6 b7C calls. I had to leave the crime scene and go to the County Road to show other officer's and the ambulance where to go. *RP*

I have read the foregoing affidavit and, under penalty of perjury, certify that it is true and correct to the best of my knowledge.



SIGNED _____ Date _____

Page No. _____ of a _____ page affidavit.

VOLUNTARY STATEMENT

DATE 9/27/60 PLACE PARADISE VALLEY ME STARTED _____ M.

I, the undersigned, am years of age, having been born
on at TEXAS NAPA COUNTY.

I now live at a person who has identified himself as

I have been duly warned and advised by that I do not have to make any statement at all, nor answer any questions or do anything that might tend to go against me or incriminate me in any manner, and that any statement I make may be used against me on the trial or trials for the offense or offenses concerning which the following statement is herein made. I was also warned and advised of my right to the advice and presence of a lawyer of my own choice before or at any time during any questioning or statement I make, and if I am not able to hire a lawyer I may request and have a lawyer appointed for me, by the proper authority, without cost or charge to me.

I do not want to talk to a lawyer, and I hereby knowingly and purposely waive my right to the advice and presence of a lawyer before and during any questioning or at any time before or while I voluntarily make the following statement to the aforesaid person, knowing that anything I say can and will be used against me in a court or courts of law.

I declare that the following voluntary statement is made to the aforesaid person of my own free will without promise of hope or reward, without fear or threat of physical harm, without coercion, favor or offer of favor, without leniency or offer of leniency, by any person or persons whomsoever.

Stated to me that
He and His Son Found on Shore
of Lake Berryessa A man Came up With
Blood over Face and Hand Pointed Pistol
at them and tied them up Victim.
Man with Gun said He Cx Con
From Colorado and Was on His Way
to Mexico at this time He added
man started shooting him and the Corp
Victim stated that He added Man
Pistol Was an automatic

b6
b7C

I have read this statement consisting of 1 page(s), and I certify that the facts contained therein are true and correct. I further certify that I made no request for the advice or presence of a lawyer before or during any part of this statement, nor at any time before it was finished did I request that this statement be stopped. I also declare that I was not told or prompted what to say in this statement.

This stat on the 27TH day of SEPT, 1959

WITNESS: Signature of person giving voluntary statement

WITNESS:

VOLUNTARY STATEMENT

DATE 9-27-69

PLACE [REDACTED]

Henderson Burgman

ME STARTED 21 14 M.

I, the undersigned, [REDACTED] am [REDACTED] years of age, having been born

on April 26 - 30 at San Francisco Phone [REDACTED]

I now live at San Francisco Calif

I have been duly warned and advised by _____, a person who has identified himself as

that I do not have to make any statement at all, nor answer any questions or do anything that might tend to go against me or incriminate me in any manner, and that any statement I make may be used against me on the trial or trials for the offense or offenses concerning which the following statement is herein made. I was also warned and advised of my right to the advice and presence of a lawyer of my own choice before or at any time during any questioning or statement I make, and if I am not able to hire a lawyer I may request and have a lawyer appointed for me, by the proper authority, without cost or charge to me.

I do not want to talk to a lawyer, and I hereby knowingly and purposely waive my right to the advice and presence of a lawyer before and during any questioning or at any time before or while I voluntarily make the following statement to the aforesaid person, knowing that anything I say can and will be used against me in a court or courts of law.

I declare that the following voluntary statement is made to the aforesaid person of my own free will without promise of hope or reward, without fear or threat of physical harm, without coercion, favor or offer of favor, without leniency or offer of leniency, by any person or persons whomsoever.

At approximately 6:55 PM while fishing I heard somebody calling for help, I didn't respond immediately because I thought it was a guy, as his cry for help persisted. I went to see what it was all about. Upon arriving about three or four minutes from the time I first heard him) at the scene I saw through my binoculars a young man leaning or lying his head on another person. I asked him what was the matter and he said "we have been stabbed and [REDACTED] robbed". I told him I would go for help and he said "don't leave, take us with you". I left immediately and arrived at Rancho Monticello about ten or twelve minutes later and told [REDACTED] what I had seen and she called the police. About 10 minutes later an officer showed up (Officer [REDACTED]) and told him what I had seen. The five of us [REDACTED]

[REDACTED] Officer [REDACTED] my son and myself got in a speed boat and returned to the spot [REDACTED] I saw them (about 25 or 30 minutes after I left the scene). I only saw one person (the girl) as we pulled up and I saw a pickup truck arrive just about the same time we got there with two people in it, one officer and the young man [REDACTED] he found on the road. We stayed at the scene until more officers and the ambulance arrived.

I have read this statement consisting of 1 page(s), and I certify that the facts contained therein are true and correct. I further certify that I made no request for the advice or presence of a lawyer before or during any part of this statement, nor at any time before it was finished did I request that this statement be stopped. I also declare that I was not told or prompted what to say in this statement.

This statement [REDACTED] M. on the _____ day of _____, 19_____

WITNESS: [REDACTED] _____ Signature of person making this statement

WITNESS: _____

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b7C

105907

NAPA COUNTY SHERIFF'S DEPARTMENT

SUPPLEMENTARY CRIME REPORT

187 P.C.	MURDER	CLASSIFICATION FELONY
SHEPARD, CECELIA ANN		ADDRESS X IN CIVIL BUSINESS IN ENCLAE 10733 Mead Lane, Loma Linda 796-2008

Sunday, 9/28/69, 10:15 A.M. - R/O contacted [] DOB [] San Bernardino County, California (residence phone [] business [] at the Queen of the Valley Hospital. Above subjects are the parents of MISS CECELIA SHEPARD, victim of a stabbing attack at Lake Berryessa.

Also present was the companion who drove from Southern California with MISS SHEPARD, victim, to Angwin during the past week. Subject's name [] aka [] address [] California, phone number [] Extension []

Victim's parents stated that a former male friend of victim, [] years, senior, [] threatened victim when victim started going with BRYAN HARTNELL. This occurred sometime in 1968. However, the parents stated that [] was small in stature and that victim HARTNELL knew him quite well.

Other than the above statement by victim's parents, they could offer no other explanation for the attack on their daughter. The parents gave numerous names of persons who knew their daughter.

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[] student at [] two years ago (1967) - family resides in [] California

[] former [] student - did work for mortuary in [] California

[] Dean of Girls-Dean of Students,
[] - presently on leave at the []

[] - residence presently Las Vegas,
Nevada - former student []
(Sgt. [] informed R/O that MISS CAPELLE presently a student Mills College, Oakland, California)

[] presently a student at []

R/O interviewed [] who could offer no explanation for the assault on her friend, []

The below information received from Sgt. [] Oakland Intelligence Unit, Oakland (cont'd)

REPORTING OFFICER	Det/Sgt. []	TYPED BY	DATE AND TIME	ROUTED BY
FURTHER ACTION	CC'D TO	DETECTIVE	9/30/69, 3 P.M.	
<input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>	UNI		
<input type="checkbox"/>	<input type="checkbox"/>	VENUE	<input type="checkbox"/> PATROL	
<input type="checkbox"/>	<input type="checkbox"/>	DATA TN	<input type="checkbox"/> OTHER	
<input type="checkbox"/>	<input type="checkbox"/>	NO FO	<input type="checkbox"/> OTHER	
REVIEWED BY				

NAPA COUNTY SHERIFF'S DEPARTMENT -----2

105907

SUPPLEMENTARY CRIME REPORT

187 P.C.	MURDER	SCA 1000 PELONY
SHEPARD, CECELIA ANN		10733 Mead Lane, Loma Linda X 796-2008

Police Department:

9-30-69 2:10 P.

Call from Sgt. [] Oakland Intelligence.

[] last yr. student [] knows []

Sgt. [] requesting to know if this guy is prime suspect.
Will advise if [] contacts []

[]

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REPORTER TO CCS	[]	[]	MAILED BY	DATE AND TIME	REPORTED BY
[], Det/Sgt.		[]	Det/Sgt. []	9/30/69, 3 P.M.	
<input checked="" type="checkbox"/> FATHER		<input checked="" type="checkbox"/> MOTHER	<input type="checkbox"/> CHI		
<input type="checkbox"/> M.		<input type="checkbox"/> W.	<input type="checkbox"/> T.Y.O.		
<input type="checkbox"/> ATTORNEY		<input type="checkbox"/> ATTORNEY	<input type="checkbox"/> T.Y.P.		
<input type="checkbox"/> S.F.		<input type="checkbox"/> S.F.	<input type="checkbox"/> T.Y.P.		
REVIEWED BY		APPROVED BY		DATE	

9/28/69 - 12:30 P.M. - Reporting Officer [redacted] Det/Sgt., interviewed one of two victims who were each stabbed numerous times by an unknown assailant. Victim CECELIA SHEPARD and victim BRYAN HARKNELL both had been placed in the Queen of the Valley Hospital intensive care unit. Victim SHEPARD had surgery performed on her earlier in the morning (9/28/69) and was unable to be questioned by the Reporting Officer, however Dr. [redacted] gave permission for victim HARKNELL to be interviewed.

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Although victim HARKNELL was heavily sedated, he was able to give R/O a verbal statement. (Note: R/O taped electrically the interview with victim HARKNELL.) Victim HARKNELL related the following.

He had known CECELIA SHEPARD for some time, they were good friends, and she had come to the Napa County area to spend the weekend. She and a female companion, [redacted] Calif.

(phone [redacted] Ext. [redacted] had driven from Southern California and were to drive back Sunday, 9/28/69. Victim stated he and MISS SHEPARD drove to Lake Berryessa, picked a large tree near the shore line where they decided to lie down and enjoy the scenery. While lying on the ground, victim HARKNELL stated he heard a noise and asked MISS SHEPARD if she could hear anything or see anything behind a tree not far from where the couple were lying. MISS SHEPARD told victim HARKNELL she could see a man behind the tree. HARKNELL asked her what he was doing. MISS SHEPARD stated she couldn't tell. HARKNELL stated he (suspect) then came from behind the tree. MISS SHEPARD said, "Oh my God, he has a gun!" Victim HARKNELL stated the man approached the couple, aiming a black steel automatic pistol. The suspect stated he needed a car and money. Suspect stated his car was "hot" and he wanted victim HARKNELL's car keys.

Victim HARKNELL stated he began talking with the suspect, telling the suspect he had no money, only a small amount of change, also that if the suspect was really in need of assistance HARKNELL would attempt to help him. The suspect told victim to get on the ground. Suspect then had MISS SHEPARD tie HARKNELL's hands behind him. HARKNELL stated he attempted to keep the suspect engaged in conversation while suspect was tying the victims.

HARKNELL further stated the suspect was described as follows: Wearing a black hooded mask (cloth), covering suspect's entire head and shoulders, coming down almost to suspect's waist. Victim stated on front of the four-cornered type mask (similar to paper bag in style) there was a symbol, the symbol described as white, approximately 3 x 3 inches in diameter, with a symmetrical cross. Also on the eyelets of the mask was a pair of clip-on sunglasses, the glasses clipped to the eyelets. Victim stated he could also see hair through the mask's eyelets and observed the hair to be dark brown.

Victim stated suspect was wearing a light-weight windbreaker, dark blue or black, pleated slacks (old-fashioned type). Victim could not remember what type of shoes or anything about suspect's hands, could not remember if suspect was wearing gloves.

Victim thought suspect was possibly 20 to 30 years of age by voice concept. Victim stated suspect was 5'8" to 6', 225-250 lbs., dark brown hair, eyes unknown, sloppy dresser, stomach hanging over trousers. Suspect spoke with some

type of drawl, but victim stated it was not a Southern drawl, did not really know what type of drawl, but thought the man was not well educated, but did not feel he was illiterate either. Victim said suspect's voice was moderate in sound, that is, not high or low pitched.

Suspect told victim he was sent to (?) Lodge State Prison (possibly Deer Lodge State Prison), Montana, for a killing. While there (in prison) he killed a guard while escaping. Suspect also told victims he was heading for Mexico, told victim he was flat broke. Victim observed cut-up rope in suspect's rear pocket (trouser's), also stated he was wearing a knife in a case (on belt) on his right side, near front of trousers. Knife description: Appeared to be a long bread knife, 12" long blade, 3/4" wide, hardwood handle, 2 brass rivets holding handle in place, cotton surgical tape wrapped approximately 1" around handle of knife. Knife case possibly made of wood.

Victim asked suspect if suspect's gun was loaded. Suspect removed magazine from handle of pistol and showed victim a bullet removed from gun, bullet described as a possible .45 caliber. Victim did not know what caliber the pistol was.

Suspect had MISS SHEPARD tie HARKNELL's hands behind him, suspect then tied victim SHEPARD's hands, then re-tied HARKNELL's hands, then tied both victims' ankles together, had victims lie on their stomachs. HARKNELL stated suspect said, "I'm getting nervous." This was when suspect was tying MISS SHEPARD's hands, in fact HARKNESS stated suspect got real shaky when he was tying MISS SHEPARD's hands.

Victim HARKNELL then stated that without warning the suspect plunged his knife into the back of HARKNELL. Suspect did this repeatedly, HARKNELL stated he thinks six times. HARKNELL stated he pretended to be dead and the suspect went over to MISS SHEPARD and stabbed MISS SHEPARD repeatedly in the back, and when MISS SHEPARD turned her body over (on back), suspect stabbed her in the lower abdomen. Victim stated suspect stabbed MISS SHEPARD much worse than him. Suspect went into some sort of frenzy when stabbing MISS SHEPARD.

Victim HARKNELL stated suspect left the area after the stabbing. Victim HARKNELL hailed a boat (off shore) and told the man in the boat the couple needed help badly. Victim stated the boat left the area and he (victim) attempted to get help by crawling and walking to the road. (Victim believed he had walked to the road, however had not gone too far from his wounded companion.)

Victim stated he thought suspect had been with the couple for approximately fifteen (15) minutes from time of observing suspect until suspect departed. Victim stated suspect did not take his wallet, although when MISS SHEPARD was tying victim HARKNELL's hands, she reached in his pocket and threw his wallet to suspect. Suspect did not take the wallet or victim's car keys.

Victim stated a man in a pickup truck found him on the road and called an ambulance. Victim stated he estimated one hour in time was involved between the time he and MISS SHEPARD were stabbed until help arrived.

MISS SHEPARD is listed in critical condition.

MURKIN is listed in serious condition.

Both victims presently in the intensive care unit of Queen of the Valley Hospital.

Both victims' parents arrived this date and have been at the hospital. Neither parent could offer an explanation of why their children were attacked.

Case pending.

(NOTE: [REDACTED] Official County Court Reporter, took a brief statement from RYAN MURKIN, however victim was so heavily sedated he was unable to go into any great detail regarding the case.)

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[REDACTED] Det/Sgt. raf

9/29/68

FBI - SAN FRANCISCO

INTERVIEW OF [REDACTED] DET/SGT., NAPA COUNTY SHERIFF'S DEPARTMENT, WITH
BRYAN CALVIN HARTNELL (NSO CASE #105907) AT QUEEN OF THE VALLEY HOSPITAL ON SUNDAY,
SEPTEMBER 28, 1969 (TRANSCRIBED FROM TAPE RECORDING BY [REDACTED])

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J.R. Can you give me this fellow's description and tell me what happened?

B.H. So many people have been asking me... I hope...

J.R. Well sometimes when we're repetitious, - I know it happens to me, I tell the same thing over and over and over, and sometimes I might vary a little, and if you do...

B.H. Shall I just start out and tell you what happened?

J.R. I don't want to tire you out.

B.H. I just don't want this to happen again to anybody else... Of course he might have his reasons, - I don't know...

J.R. Okay. Go right ahead. Start right from the beginning. What happened?

B.H. Okay. This girl came out from school, - I used to go with her two years ago, and she's now going to another school, and she came up to visit some friends and we were having dinner at the school cafeteria, and I said, "Well, are you doing anything special this afternoon?" and she said, "Why?", and I said, "I don't know. We could go out and either go for a walk, go to San Francisco, or, you know, just...", 'cause we used to be good friends. We used to have a good friendship. And so it got too late by the time we got around to what we were going to do. We had to stop in St. Helena for a couple items and then we had to cart a couple kids home and stuff, and by the time we finally got around to it, it was getting late, and I thought going to San Francisco 'd rush you, you know, because by the time we got back for worship...

And so we went out to Berryessa, and there was this one place I used to go out... we used to all the time, you know... and I couldn't find it. And so I figured Ah, forget it, and this looks like as good a place as any. So I parked the car, - there were no other cars there. I had a Kharman Ghia, '56, white, with a black vinyl top, and it's in pretty good-looking shape. But we parked there on the road's edge and we walked Oh it must be about a quarter of a mile to down to the place where we went. We had... (unintelligible) ...peninsula, - it's an island I guess during the wetter season. You can see where it was levee... And so that looked like a lot... there was a big spreading tree up there. There were two of them, really, - one was a little bigger than the other. We took the one that was out on the point.

It was really beautiful out there. We were sitting on top... I lay down on my back and she lay down on her stomach beside me, you know, kind of resting her head on my shoulder, and we were talking, you know, kind of reminiscing about old times, and stuff. And I heard these rustling leaves, and I said, "You have your specs on. Why don't you see what the deal is over there?" And she says, "Oh, it's some man." And I said, "Is he alone?" And she said, "Yeah... (unintelligible) ... and she says, "Well he just stepped behind the tree." And I said, "What's the idea of that? To take a leak?" You know, 'cause that's the only thing I could think of, - just step behind a tree. And so I says, "Well, keep looking and tell me what happens," - and she squeezed my arm and says, "Oh my God, he's got a gun!"

And so he came out, and of course still actually I wasn't... There's some things you really wouldn't mind having happen, just for the experience of it. You know I thought, Well I only got fifty cents on me. It's worth all of that having it happen. I didn't think about another angle. So I talked to him, you know. I said, "Well listen, Mac," (you know I'm in the sociologist field, you know, I'm pre-law, with history and psych.) You know I've read about the criminal mind and everything, you know. I thought well maybe the guy really does need help, you know. I says, "There's no strings attached." I says, "I don't have any money right now but if you need help that badly I can help you out in another way maybe." And he says, "Nah.. time's running short," he says, "'cause I just got out of..." - some prison in Montana, I don't know what the name of it is. Feathers? Do you know what the name of it is? I'll see if it sounds familiar. Fern or Feathers? It's some double name, like Fern Lock or something...

J.R. It's Lodge..

B.H. Oh yeah, yeah, - Lodge. At least we know we're together on that.

J.R. Mountain Lodge Prison, or something of that nature...

B.H. Yeah. You know he said he broke out and had to kill a guard getting out. And I said, "Well, man, I mean actually I don't mean to call your bluff or anything, but wouldn't you rather be stuck on a stealing charge than a threat of homicide? You know? And he says, "Well just don't start playing hero on me." You know, "Don't try to grab the gun," 'cause I didn't really figure the gun was loaded. I always thought it would be empty. I've heard a lot of times that this is what they do just as a bluff, but I decided not to call his bluff after he really, you know... I told him, "You know you're really wasting your time with me. I've got a billfold and this much change and that's it." And he said, he told the girl, "Go tie him up. I'd feel much better if you were tied up." And she tied a couple of loose knots on me, so I made it look kind of tight... (unintelligible)... you know, just for a second, and he said, "Go ahead." And I whispered to her, "You know I think I can get that gun." And I said, "Do you mind?" And she got kind of fearful about it, so I figured since there's two lives involved, not just mine, I won't do it.

So I let her tie me up on the wrists again, and he tied her up, - terribly tight, you know, real... (unintelligible) ... put his gun away, and we were talking and all, - bantering, you know, basically. I was thinking, anything I can do to help, by the way just to keep the conversation going... Suddenly he was taking it all seriously, you know... So I was starting out and finally he said, "Okay, lay down. I've got her tied up", you know... He strung a rope between our ankles in the rear, so we were like this, you know, on our stomachs, tied...

J.R. You both facing the ground...

B.H. Right. And, oh, this was before. I got sort of ahead. So anyway, he said, "Get down," and I said, "Oh come on! Don't make me lay down! We could be here all night! We could freeze to death!" I said that a couple, three times, and he said, "GET DOWN! RIGHT NOW!" He got a little pushed off at me. So I got down and then he finished tying her up and clonked her down, - and then he goes... Ssswhooosh (a sound with his mouth)... (unintelligible)

And so I said, "Do you have bullets in there?" And so he pulled out the clip and showed me that he did. The bullets were about this long, I can remember, and about this fat, and they had the regular red cap on it, about this long. Maybe that doesn't give you any better description of the gun or not. I don't know. And it came out of the heel, the grip, you know. It slipped out from the bottom.

And now, to backtrack a bit. I was really trying to see what he looked like, you know. He had on pleated pants, these old type of suit pants, you know, and they were either black or dark blue, I can't remember now. And I can't remember what he was wearing for shoes. But he had on this cotton coat. You've seen the kind, that you just turn the collar up once, there's a zipper down the front, you know. They're real light, super-thin, you know...

J.R. Kind of a windbreaker...

B.H. Yeah, like a windbreaker. And it's got this blue, this little collar, sometimes the guys wear them standing up, you know.

J.R. What color was that?

B.H. That was dark blue. And I don't know. Maybe he had something in his pouch. I just took it as being a... as being a... you know, he was stout 'cause he looked kind of heavy. I think he was weighing two and a quarter, two fifty, somewhere in there. And I got kind of a look at his hair. His voice... I can remember... almost like I'd heard it before. You know there's some drawls that a lot of people have similar. And... almost as if I'd heard it before... couldn't think where.

I gave that one up, I just gave it up on that angle. I looked through his hair. I kind of looked like it was combed, you know, like this... it was a brownish, you know, dark brown hair.

And this mask he had on. It was ingeniously devised. It was... he had four corners at the top, like the top of a paper sack... black. It came down, came down, with the front panel about to here, and a kind of a thing that came over the shoulders, you know, and then the same thing down the back, straight down. And in the front he had a circle with a symmetrical cross in the middle. You know what I mean by a symmetrical cross?

J.R. Um hum (affirmative).

B.H. The ends of the cross hung out about this far on each of the... you know, where it came out. The circle was this much... like this... and then it was like this, you see... hung out on the end, over the edge of the circle.

And he had clip-on sunglasses... it was hard to tell. You know, the sunglasses you clip on when you're wearing glasses, eyeglasses. He had those clipped on. I'm pretty sure... I don't think he had glasses, though. I think he just had these clipped on to his suit... you know, that little mask.

And I don't know how tall he was. Maybe 5-8 or maybe 5-10, 6 feet, somewhere in there. I'm a very poor judge of height because of my height. I have no meaning, you know. It's always down, you know. It can never be up...

And so I saw him put away his gun, and I was turning to say something to Celia, and all of a sudden I felt my back... just... no, I think I saw him pull it out... I don't remember... I think I saw him whip out his knife and just start stabbing me in the back... CHOMP, CHOMP, CHOMP, CHOMP! I was just (makes a gutteral sound)... you know that kind of a sound... and Celia turned to see why I was (repeats gutteral sound), you know, and she just about fainted. She went hysterical... (unintelligible) ... and when he finally stopped... I mean he went over and... The doctor says there's six in the back, six wounds on my back. You ought to confirm that. One I've got went clear through the lung. I've got it draining. I did drain a couple pints of blood out as soon as I got here. I lost an awful lot of blood, I guess.

We were down... I mean it was absolutely no question in my mind... when a person gets stabbed as many times as we did... we were going to die. I mean there'd be no reason to question it. But somehow I, you know, started (unintelligible)... I just knew there was too much I had to live for. I mean really it does happen... about getting depressed and everything... when you're young you always think about these things... you know you think about it... and when you've got someone forcing your hand, - oh well, there was a lot of things I had to do. And what really kept me going... you know my parents are pretty Christian. I haven't been too much of a Christian myself... but if you believe in the principle you ask God to help you. Another thing, - What was my only strength was knowing two things. One, that I did not want to die, and two, that I felt that whatever was going to be was going to be, but I was going to try my damnedest to stay alive. And so, like I say, - before I left her I kissed her, and I said, "Well," I says, "I'm gonna try to get help."

There was a boat kept circling around out there in the lake and we started yelling at it and it finally came within about 100 yards of the shore and turned off its motor and stayed there watching us for about fifteen minutes, and we were just screaming hysterically, trying to get their attention, you know, to come over here. Oh, I don't know, I guess they were afraid that the guy might be there in the bushes and they were liable to get choked or something. So finally he came up a little closer. I didn't have my glasses on... I was just swaying, you know... and I had gotten one of her hands free before they came, and so I kept trying to get her to untie me, and she couldn't, she was too weak, she said.

So finally I just kept hollering and hollering, and she said, "Turn around and let's see if I can do it again." She finally got it. My hands and my feet were just pure numbness... they're still numb but I'm sure that will go 'way. But I finally got... (unintelligible)... untie her so she could kind of relax out. 'Cause it was a terrible position, you know, upon our stomachs... (unintelligible)...

And so I started to go for help. I finally got myself fairly reconciled. I wasn't too worried about dying, if that was what was going to happen, but I knew I had to keep pushing on. I had to force myself into staying alive because it was... I could just see myself... you know, all sort of waves would come over... I just (coughing sound)... (unintelligible)... "Well, you're not gonna give up this easy", you know. And, like I say, I just kept believing that God would do everything the best, if the thing was gonna happen, but I couldn't see any reason why my dying would be the best good. So I just played along with that.

I just started to walk toward the road... everything blacked out on me... my visual... my mind was never blacked out, but my visual was. So I lay down... My eyes started to come open... I just saw a haze of trees, you know. In a little while I got up and went another twenty feet, and then the same thing happened... (unintelligible)... and sat down. Next thing I went clear... (unintelligible)... the road, and by that time I just fell... I just... I was trying so hard to go far I just went too far. Finally I heard this pickup coming... I was just laying alongside the road, and that's where this guy picked me up.

They weren't in any hurry at all, it didn't seem like, you know, but they finally called an ambulance. About fifteen minutes later it came... (unintelligible)... but I still believe... I've got feeling... starting to get a little pain to come through. But from the minute that knife blade went in, it was nothing but pure shock from there on. I mean I just did not expect it. I didn't expect that he would do that. That was a variable I had completely left out. And I guess he just took off running after we started running. I don't know. I never saw him before and hope not to see him again... at least outside of a courtroom.

It's hard for me to explain much more. I'm trying to give you a kind of example of his technique. He had some rope cut up in his back pocket. And he had a... well, I thought it was a police automatic because it was in one of these black leather cases, you know...

J.R. Was it in a smooth case, or did it have a basket weave like...

B.H. Can I have my glasses? Oh, they're not here. It was a smooth one, though.

J.R. Did he have this hood down to about the middle of his chest?

B.H. No, about like... well, I'll show you... Here... his stomach... You know I could see his... (voice fades away)

J.R. Okay. You said his hair looked dark brown. How could you see his hair?

B.H. 'Cause I saw it from where those goggles fit. I looked so closely to find out. And when he turned you know they kind of flittered... I could see his hair. It looked kind of greasy.

J.R. Now was he as heavy as I am?

B.H. Well I can't say 'cause he wasn't wearing thos.. type of clothes. They were sloppy clothes, you know. And he just had on this old pair of pleated pants. I don't know... How tall are you?

J.R. I'm about five eleven.

B.H. Well, like I say, he was dressed kind of sloppily, you know. His pants real tight up here and his stomach kind of pouched a bit, you know. I don't know... it's hard to say 'cause I can't judge you with being in a suit and all, you know, and him not being professional-looking at all. He could be about the same. It's hard to say. He was so sloppily dressed.

J.R. Bryan, you also mentioned a drawl. Well not a drawl, an accent.

B.H. It was just something... I guess his way of talking. It was something I couldn't repeat. It's like a song. Sometimes you know what you're going to say but you just can't sing the melody worth a darn.

J.R. Did he have a throaty voice or a high pitched?

B.H. In between. But it was just a unique way of talking.

J.R. Did he sound like an educated man?

B.H. Heck no! I don't think so.

J.R. Did he sound illiterate?

B.H. No. He didn't sound that way either. He just impressed me as being rather low class. The reason was because of his clothes, you know.

J.R. Did you lose consciousness when he stabbed you at any time? Did you observe him stab Cecilia?

B.H. Yeah...

J.R. What did he say after...

B.H. He stabbed her a bunch of times in the back. After she turned around, he got her once in the groin and one in the arm I think. He kind of went a little more hog-wild with her than with me. I faked dead... like that... I didn't want him to come back and give me some more.

J.R. So you were pretty sure he thought you were dead when he finished working on you?

B.H. I think he kind of thought that. Of course I don't know because we started talking right after he left. It's hard to say... (unintelligible)... I don't think she fainted either.

J.R. Was she in a lot of pain, did she tell you?

B.H. Oh yeah. She was more weak at the time... (unintelligible)... from the religious angle. I told her I sure as heck wasn't going to have any deathbed conversion. "No," she says... (unintelligible)... I mean it was just like you were gonna die and had a few things to say. But I felt more and more I wasn't losing strength as much... (unintelligible)... that I thought I could cope with...

J.R. What you did was a courageous thing. It was a terrible thing to have happen to anyone.

B.H. Well there was nothing we could do. We were kind of at the mercy of him. I mean I wanted to get that gun... (unintelligible)... There was a time I think I could have gotten it...

J.R. Did it appear to be a .45 to you? An automatic?

B.H. It was about this long... along the stock... and had a wood edge on it, you know.. on either side...

J.R. Handles.

B.H. Yeah...yeah...

J.R. Did the bullet look anything like that?

B.H. No. It was kind of like this, only it was gold, and this part here came out along with this and then round the gold, round the blunt end. Not quite that blunt-ended, though.

J.R. Was it fat? Fatter than this?

B.H. Yeah, I think it was a little fatter. But it was gold, you know. And I didn't see any of this here. There was a part where it crimped... Well, almost like that .22, short, only a lot bigger. It was about like this length, maybe more stubby.

J.R. Well I'll get a .45 a little later and we can bring it up and let you observe it.

Let's take the suspect. His hands...

B.H. I don't remember if they had gloves on or not. I can't remember now. I keep thinking that he had gloves on. I can't figure how he tied us... Let's ask Celia, she probably knows about that.

J.R. Did he swear? Did he use any profane language or obscenity?

B.H. I don't think so. If he did it was no more than I was using at the time. I don't think he used any obscenity. He might have used a swear word or something, you know. That wasn't striking to me...

J.R. Do you have any idea what his motive might have been? Money?

B.H. Money. He said he was going to go to Mexico and he was flat broke.

J.R. Did he search you after he...

B.H. Heck no! Very unprofessional. He didn't even end up taking that loose change and didn't even take my billfold.

J.R. Why did he stab you when you weren't fighting him off or anything?

B.H. I couldn't! Even if I'd have wanted to. I was laying on my stomach...

J.R. So what would have been the purpose of him to stab you, to you think?

B.H. Well I (unintelligible)... but I think he got rattled... (unintelligible)... very, very nervous. His hands were shaking... (unintelligible)... Are you nervous?

J.R. I'm just curious. If you could write me that symbol you were telling me about. Do you think you could draw me a picture of that even without your glasses?

B.H. Um hum (affirmative). (Draws)... kind of like that. I can't see very well...

J.R. Yes, I see. Okay...

B.H. ... (unintelligible)... that I could really die...

J.R. Does this ring a bell?

B.H. This one here. This is more like it, but I'm not sure. It was distinctly that design. It was thick. More thick marks.

J.R. Okay. What color was this? Do you recall?

B.H. Black. And that was white.

J.R. This was black.

B.H. No, that was white. It was about this tall.

J.R. Two and a half, three inches?

B.H. About four by four... three by three...

J.R. How do you feel? Am I tiring you out too much?

B.H. No. I've had a couple shots. It's not hurting me at all.

J.R. Do you think Cecelia could tell me any more than you have already told me? Add anything?

B.H. (unintelligible)

J.R. Did he slap you around? Slap her?

B.H. (unintelligible)... No.

J.R. He was a much smaller man than you?

B.H. Not much. About your height I guess. I don't know.

J.R. Well you're getting kind of sleepy. I'll ease up on you.

B.H. Have you gotten any clues at all?

J.R. Yes, we've got some good clues. Before we get this guy it's going to take a lot of work.

B.H. Remember he said he was headed for Mexico.

J.R. He's headed for Mexico?

B.H. That's what he said.

J.R. I'll leave you my card. It's right up here. I'm going to go down and talk to your mom and dad.

B.H. Have the news heard about this at all?

J.R. Yes.

B.H. Was there anything in the paper today?

J.R. No, it wasn't in...

B.H. The Napa paper?

J.R. Well there's no Napa paper on Sundays. It's been on the news media...

B.H. Names? Did they name my name?

J.R. I don't know, to tell you the truth.

B.H. The reason I asked is my girl friend lives in Portland and I've got to talk to her before it gets to her...

J.R. Okay.

B.H. What time is it now?

J.R. It's one o'clock.

B.H. What are the rates now?

J.R. Don't you worry about the rates.

B.H. Well I should probably give her a call...

J.R. You're looking real good. You've got some color...

B.H. Is there a phone real close by?

J.R. I'll get the nurse...

B.H. 'Cause I'd like to call her now...

J.R. Now if you think of anything that you want to see me about, my card's here. You can have the nurse call me. I'm gonna be up here quite a bit.

B.H. You say you have a guard out here?

J.R. Yes.

(END OF INTERVIEW)

NAPA COUNTY SHERIFF'S DEPARTMENT

Note: This is basically the information I received from the three girls, [redacted] and [redacted]

They went into the Berryessa area from Angwin, via Pope Valley and pulled into a parking spot two miles North of the A & W at Sugar Loaf and stopped, but before they could get out of their vehicle, another car pulled in beside them, pulled pass them and then backed up with his rear bumper parallel and off to the side of theirs. Suspect sat there with his head down as if he were reading something; however the girls got the impression that he wasn't. This was 1455. They arrived at the lake shore line at 1500.

At about 1530 they noticed the same subject watching them. At this time the were in their swim suits sunbathing. They observed him in the area for about 20 minutes which would make it 1550. They no longer saw him after that. When they returned to their vehicle at 1630, the vehicle in question was not their. The vehicle was described as a Chevrolet, silver blue or ice blue in color, about a '66 model 2 dr. sedan, full size car, quiet, very conservative, with California plates.

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The suspect they described is 25 to 35 years; 6' to 6'2; 200 to 230 lbs.; dark hair, straight and parted; no glasses; a black sweat shirt with short sleeves, the sleeves are not cut off, they are knitted at the end; dark blue pants, either sports pants or suit pants; the tee-shirt hanging out at the rear of his trousers; smoking cigarettes; appeared clean cut and nice looking.

These three girls are about 21 years of age, each, and are very sure and positive as to what they saw and observed. When asked if they could give details to an artist for a sketch or for the ident-a-kit, the [redacted] girl stated that she definitely could and the other two were unsure; however all three stated they could identify the subject should they see him again.

NOTE: [redacted] If there are any further questions on this please contact [redacted]

DEPUTY [redacted] mm
9/29/69

cc: [redacted]

103907

NAPA COUNTY SHERIFF'S DEPARTMENT
SUPPLEMENTARY CRIME REPORT

70 CODE SECTION 187 P.C.	NAME MURDER	72 CLASSIFICATION PELONY
73 VICTIM'S NAME - LAST, FIRST, MIDDLE (FIRM IF BUSINESS) CECELIA SHEPARD	74 ADDRESS [Redacted]	75 PHONE [Redacted]

9/29/69 - 2:00 P.M. - Assigned Officer detailed to check men's shoe stores in the Napa area. A/O attempting to locate the manufacturer of a particular tread design from a work shoe or service boot. (Plaster cast of suspect's foot impression taken at scene of crime.)

A/O learned the following information from the twelve shoe stores he canvassed.

1. The imprint could have been made by shoe or boot of foreign import.
2. The imprint size could be approx. size 10½ EE.
3. The imprint made possibly by a neoprene sole and heel.

Below a list of stores contacted:

1. Village Shoes, 1101 First Street.
2. Spinning Wheel Shoes, 1129 First Street.
3. Kramers Shoes, 1210 First Street.
4. Schalow Shoes, 1233 First Street.
5. Grande Shoes, 1311 First Street.
6. J. C. Penney Co., 1400 First Street.
7. Gallenkamp's Shoe Co., 1444 First Street.
8. Colonial Saddle Shop, 1048 Main Street.
9. W. H. Springer Shoe Repair (closed), 1140 Main Street.
10. Brewster's Government Surplus, 1146 Main Street.
11. Montgomery Ward & Co., Bel Aire Shopping Center.
12. Bloom Shoes, Bel Aire Shopping Center.

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R	DET/SGT.	[Redacted]	DET/SGT. [Redacted]	DATE AND TIME 9/30/69, 11:50 AM	ROUTED BY AM
FURTHER ACTION <input checked="" type="checkbox"/> YES TO COPIES <input type="checkbox"/> NO	DETECTIVE <input type="checkbox"/> VENUE <input type="checkbox"/> DIST ATTNY <input type="checkbox"/> SO/PD <input type="checkbox"/>	CII <input type="checkbox"/> PATROL <input type="checkbox"/> OTHER <input type="checkbox"/>	REVIEWED BY [Redacted]	DATE [Redacted]	

105907

NAPA COUNTY SHERIFF'S DEPARTMENT

10/1/69
9:14 A.M.

72 CODE SECTION 187 P.C.	CRIME MURDER	72 CLASSIFICATION FELONY
73 VICTIM'S NAME SHEPARD, CECILIA	74 ADDRESS	75 BUSINESS
		75 PHONE

R/O contacted victim BRYAN HARKNELL at Queen of the Valley Hospital. R/O showed victim the following automatic pistols in an attempt to determine if Victim could identify any of the pistols:

Colt automatic .45 cal.
 Remington automatic 380 cal.
 Colt Commander Auto. .45 cal.
 Colt auto. .32 cal.
 Walther P38 auto. 9 mm
 Browning auto. 9 mm
 Astra auto. (Spain) .25 cal.
 Smith & Wesson auto. 9 mm
 Luger automatic 9 mm
 Astra automatic (Spain) 9 mm

Victim could not identify any of the above pistols.

(NOTE: Sgt. [] and Deputy [] catalogued and photographed the above pistols.)

Victim believed the bullet he observed could have been a .45 caliber, but is not certain.

1:45 P.M. - R/O revisited Victim MARTNELL. The following ammunition was shown to Victim:

.45 cal. autom. bullet, bullet brass, casing silver
 .45 cal. autom. bullet, bullet brass, casing brass
 357 cal. Magnum lead bullet, silver casing
 .38 special Wad Cutter lead bullet, brass casing
 9 mm Luger hollow point brass bullet, brass casing
 9 mm brass bullet, brass casing (autom. bullet)
 .25 cal. autom. brass bullet, brass casing
 .22 cal. long rifle brass bullet, brass casing
 .22 cal. long rifle lead bullet, brass casing
 .22 cal. short lead bullet, brass casing

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All above ammunition are bullets from automatic pistols, with the exception of the last three items, .22 caliber ammunition.

Victim identified the .45 cal. automatic bullet, brass casing, brass bullet, ^{bullet} Victim stated he could not be absolutely certain, however he believes the .45 cal. automatic found is of the same type that the Suspect showed the Victim.

RECORDED BY	[]	TYPED BY	[]	DATE AND TIME	10/1/69, 2 PM	ROUTED BY
DET/SGT.	[]	DET/SGT.	[]			
FURTHER ACTION	<input type="checkbox"/> YES TO	COPIES	<input type="checkbox"/> DETECTIVE	CII		
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REVIEWED BY				DATE		

105907

NAPA COUNTY SHERIFF'S DEPARTMENT
SUPPLEMENTARY CRIME REPORT

70 CODE SECTION 187 P.C.	MURDER	72 CLASSIFICATION FELONY
73 VICTIM'S NAME SHEPARD, CECELIA ANN	74 ADDRESS 10733 Mead Lane, Loma Linda	75 PHONE

September 27, 1969 - Reporting Officers Det/Sgts. [] and [] were both contacted by phone at their residences at 2020 hours and advised that a double stabbing had occurred in the Lake Berryessa area and the victims were en route to Queen of the Valley Hospital via Piner's Ambulance. [] and [] were requested to proceed to Queen of the Valley Hospital and take over the case for investigative purposes. Det/Sgt. [] arrived at Queen of the Valley Hospital at 2033 hours; Det/Sgt. [] arrived at the hospital at 2044 hours.

At 2035 hours Sgt. [] received information from Station One that a pay phone booth located at the Napa Car Wash, corner of Main and Clinton Streets, was used by a possible responsible in making a phone call to the Napa Police Department. Sgt. [] immediately dispatched Det/Sgt. [] to proceed to the phone booth and process same for physical evidence.

At 2050 hours Piner's Ambulance bearing the two stabbing victims arrived at Queen of the Valley Hospital. The ambulance personnel was [] and []. Both subjects are employed by the Piner Ambulance Company.

The two victims were immediately taken into the Emergency Room and were followed by Reporting Officers. At 2055 hours Officers [] and [] were asked to leave the Emergency Room by the attending nurses, as both victims appeared to be in critical condition. The victims were identified at that point as b6 b7C

Victim #1 BRYAN CALVIN HARTNELL, WMA, 20 yrs. of age, DOB [] a student at Pacific Union College in Angwin, home address [] Oregon.

Victim #2 CECELIA ANN SHEPARD, WFA, 22 yrs. of age, DOB 1/1/47. Subject was a student at the University of California at Riverside, home address 10733 Mead Lane, Loma Linda, California.

It was learned from the nurse on duty (unidentified) that attending physicians were a [] and a [] and that [] had been called however had not arrived as yet. This was at approximately 2100 hours.

Reporting Officers were also advised by an unidentified nurse that when hospital officials were attempting to get ID information out of BRYAN HARTNELL, he advised them to contact [] at []. He stated she was CECELIA's best friend. Reporting Officers contacted [] Chief Security Officer, [] by phone and asked him to attempt to locate []. (cont'd)

REPORTING OFFICERS Det/Sgts [] and []	RECORDING OFFICER Det/Sgts. []	TYPED BY []	DATE AND TIME 10/4/69, 1:15 PM	ROUTED BY []
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NAPA COUNTY SHERIFF'S DEPARTMENT

105907

SUPPLEMENTARY CRIME REPORT -----2

70 CODE SECTION 187 P.C.	MURDER	72 CLASSIFICATION FELONY
73 VICTIM NAME AS KNOWN TO YOU		74 ADDRESS X RESIDENTIAL 75 BUSINESS 76 PHONE SHEPARD, CECELIA ANN 10733 Mead Lane, Loma Linda

[redacted] advised that [redacted] was a student at the college and had left the college earlier in the afternoon, driving a yellow Datsun. At 2135 hours Reporting Officers put out an All Points Bulletin around the City and County of Napa for this above described vehicle. At 2137 hours Officers received permission to interview the victim BRYAN HARTNELL who was taken to the X-Ray Room for x-rays.

Reporting Officer Det/Sgt. [redacted] attempted to interview BRYAN HARTNELL while in the presence of [redacted] and hospital attendant Sgt. [redacted]. [redacted] was called away to answer a phone before the interview got under way. [redacted] appeared to be in extreme pain and also appeared to be in shock. Reporting Officer [redacted] introduced himself to [redacted] and asked him to give us any information he had on his assailant.

HARTNELL stated that the assailant was wearing a black ceremonial type hood, square on top, and appeared to be heavy-set, between 200 and 250 pounds. He also stated his assailant had approached both him and MISS SHEPARD with a gun but had stabbed them with a long knife. HARTNELL further stated the gun was in a black holster and the knife was in a sheath. He stated that the attacker was wearing dark clothing, dark jacket and dark pants. HARTNELL further stated that the gun was an automatic pistol and the knife had a black handle and appeared to be homemade. b6 b7C

It should be noted that HARTNELL was very groggy and he was very difficult to interview at that time. Subject was re-interviewed the next day by Det/Sgt. [redacted] and gave more complete details. (The report of Sgt. [redacted] interview is attached.)

At 2215 hours R/Os [redacted] and [redacted] left the Queen of the Valley Hospital after advising Deputy Sheriffs [redacted] and [redacted] to take charge of the clothing of the victims and any other evidence from the victims when it was released from the hospital. [redacted] and [redacted] were also advised to stand by at the hospital as a security measure until other arrangements could be made.

As Reporting Officers [redacted] and [redacted] were arriving at the Napa County Sheriff's Office, they were advised by the Napa Police Department that they had located [redacted] in the downtown Napa area and were bringing her to the Napa County Sheriff's Office. [redacted] was interviewed by [redacted] and [redacted] at the Napa County Sheriff's Office. She was further identified as [redacted] a student at [redacted] with a permanent residence address of [redacted], California. [redacted] advised that she was with [redacted] cont'

REPORTING OFFICER Det/Sgt [redacted] and [redacted]	RECORDING OFFICER Det/Sgt [redacted]	TYPED BY	DATE AND TIME 10/4/69, 1:15 PM	ROUTED BY
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	REVIEWED BY			DATE

NAPA COUNTY SHERIFF'S DEPARTMENT

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SUPPLEMENTARY CRIME REPORT -----3

70 CODE SECTION 187 P.C.	71 CRIME MURDER	72 CLASSIFICATION FELONY
73 VICTIM'S NAME - LAST / FIRST / MIDDLE (F RM F BIS) SHEPARD, CECELIA ANN		74 ADDRESS X RESIDENTIAL BUSINESS 10733 Mead Lane, Loma Linda
75 PHONE		

HARTNELL and CECELIA SHEPARD earlier in the afternoon. She stated that they all left Pacific Union College together at approximately 1:00 P.M. and went to a rummage sale in the City of St. Helena. She stated that BRYAN had bought a T.V. set at the rummage sale and had to transport it back to his room at Pacific Union College. She stated he left CECELIA at the rummage sale as there was not enough room in his car. [REDACTED] stated BRYAN returned to the St. Helena area and picked up CECELIA at approximately 2:00 P.M. [REDACTED] stated as far as she knew both BRYAN and CECELIA were planning to go to San Francisco when they left her in St. Helena. [REDACTED] stated she had no knowledge of any plans that BRYAN and CECELIA were making to go to the Lake Berryessa area. [REDACTED] stated the last time she saw BRYAN and CECELIA was approximately 2:00 P.M. in the afternoon. The interview with [REDACTED] was terminated at that point.

Det/Sgts. [REDACTED] and [REDACTED] then proceeded to Lake Berryessa and arrived at the scene of the crime, which was approximately a mile and a half north of Lake Berryessa Park Headquarters, at 2354 hours. The scene was being preserved by uniformed officers and under the direct control of Deputy Sheriffs [REDACTED] and [REDACTED]. The investigating officers were briefed by Officers [REDACTED] and [REDACTED] as to what had taken place prior to our arrival.

Officers observed a 1956 white Kharman Ghia with a black vinyl top, Oregon license plate 4 U 2040. Investigating officers were shown footprints in dirt area and tire tracks, both believed to have been left by responsible. Investigating officers awaited the arrival of Sgt. [REDACTED] who had been called to take photographs of the crime scene area and Sgt. [REDACTED] criminalist for collection and preservation of physical evidence.

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R/Os [REDACTED] and [REDACTED] were advised by Park Ranger [REDACTED] who had also arrived at the scene that it was possible to get to the beach area by vehicle from a locked gate approximately one-half mile south of the victim's vehicle. Officers proceeded to the area and arrived at the footpath approximately halfway between the scene of the crime at the beach and the victim's vehicle on the road. At that point, after a brief examination of the footpath area, officers discovered a similar footprint on the footpath to that found at the scene of the victim's vehicle. At that point, due to the lateness and darkness of the hour, Reporting Officers decided to completely secure the area and make a thorough search of the scene at first light.

Officers then exited the crime scene area in the same manner and locked the aforementioned gate leading to this vicinity. Investigating officers along with Park Ranger [REDACTED] went to the Berryessa Park Headquarters. At this time Sgt.

REPORTING OFFICER Det/Sgts [REDACTED] and [REDACTED]	RECORDING OFFICER Det/Sgts [REDACTED]	TYPED BY	DATE AND TIME 1:15 PM, 10/4/69 (cont'd)	ROUTED BY
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NAPA COUNTY SHERIFF'S DEPARTMENT

SUPPLEMENTARY CRIME REPORT -----4

CODE SECTION 187 P.C.	CRIMES MURDER	72 CLASSIFICATION FELONY
VICTIM'S NAME SHEPARD, CECELIA ANN		ADDRESS 10733 Mead Lane, Loma Linda

took into his possession certain items belonging to the victims that were taken into evidence by Ranger [REDACTED]. These items consisted of a blanket, a pair of man's shoes, a wallet belonging to BRYAN HARTNELL, eyeglasses, and playing cards. Among the various aforementioned items believed to belong to the victims, were numerous strands of white plastic line cut into various assorted lengths, some of which had what appeared to be bloodstains. These items were subsequently turned over to Det/Sgt. [REDACTED] for preservation.

Assigned investigators then proceeded back to the scene where the victim's car was parked and assisted Sgt. [REDACTED] in the making of the plaster casts. At approximately 0245 hours Sgt. [REDACTED] having previously obtained the keys to the vehicle from BRYAN HARTNELL's property at Queen of the Valley Hospital, drove the white Karmann Ghia to the maintenance shop at Berryessa Park Headquarters. The vehicle was parked inside of the maintenance shop building and the building was secured for the evening by investigating officers with the assistance of Park Ranger [REDACTED]

Assigned investigators then returned back to the scene where the victim's vehicle had been previously parked and awaited the arrival of Deputy Sheriffs [REDACTED] [REDACTED] and [REDACTED] who were assigned to security duty in the crime scene area. At approximately 0300 hours officers assumed their duties at the crime scene area and the security was placed under the direction of Deputy [REDACTED]. Reporting Officers [REDACTED] and [REDACTED] then returned to their respective residences with plans to continue the investigation at daybreak.

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9/28/69 - 0700 hours - R/Os [REDACTED] and [REDACTED] returned to the scene at Lake Berryessa area, accompanied by Det/Sgt. [REDACTED], Capt. [REDACTED] and Sgt. [REDACTED]. Officers then assisted Det/Sgt. [REDACTED] in tracking the footprints from the vehicle to the scene of the crime by the beach area. (The location and preservation of aforementioned footprints will be detailed in a supplementary evidence report by Sgt. [REDACTED].)

At 0800 hours Reporting Officers [REDACTED] and [REDACTED] received information via Park Headquarters that a [REDACTED] and his son would like to talk to them at the Spanish Flat Coffee Shop regarding a possible suspect in this crime.

At 0912 hours R/Os [REDACTED] and [REDACTED] contacted [REDACTED] and his [REDACTED] old son [REDACTED] at the Spanish Flat Coffee Shop. [REDACTED] gave a home address of [REDACTED], California (phone number [REDACTED])

[REDACTED] stated that about 6:30 P.M. the previous evening he and his son had parked their car north of Park Headquarters in the general area of the

(cont'd)

REPORTING OFFICERS Det/Sgts [REDACTED] and [REDACTED]	RECORDING OFFICER Det/Sgts [REDACTED]	TYPED BY	DATE AND TIME 10/4/69, 1:15 PM	ROUTED BY
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REVIEWED BY

DATE

SUPPLEMENTARY CRIME REPORT -----6

187 P.C.	MURDER	FELONY
SHEPARD, CECELIA ANN	10733 Mead Lane, Loma Linda	

arrival of the ambulance. According to [redacted] the male victim said that a male subject approached them, wearing a hood, dressed in dark clothing. The subject was carrying what appeared to be an automatic pistol and stated that he wanted their money and car keys. According to [redacted] the male victim related to him that the subject advised him he was an ex-con out of Colorado and was en route to Mexico. Suspect stated he had to tie them up, and after they were tied the responsible stated, "I'm going to have to stab you." [redacted] further related that the male victim advised the responsible, "Stab me first, I can't stand to see her stabbed first." The male victim then advised that the responsible stabbed him numerous times in the back and then stabbed the girl.

The female victim advised [redacted] that she could not see the responsible's face as a hood was covering all of his head. She also advised White that the suspect had what appeared to be clip-on sunglasses to cover his eyes.

Ranger Sgt. [redacted] stated that this is the most he could get out of either victim b6 b7C as they were both in great shock and pain. White stated that he noticed a lot of blood near the girl's groin area. The interview with Ranger Sgt. [redacted] was terminated at that point.

9/28/69 - 1400 hours - Reporting Officers proceeded to the Rancho Monticello Resort and interviewed [redacted] (It should be noted that [redacted] and [redacted] are no relation to Ranger Sgt. [redacted] is the owner of the [redacted] at Rancho Monticello Resort. He lives at the Resort and his phone number is [redacted]. Also interviewed were [redacted] [redacted] advised that they were contacted by [redacted] who advised them he had just observed what appeared to be a male and a female subject lying on the beach south of the Rancho Monticello Resort, covered with blood. [redacted] advised them that the couple had shouted out to him that they had been stabbed and robbed. [redacted] immediately called Park Headquarters and Ranger Sgt. [redacted] arrived at the Resort a short time later. [redacted] accompanied by Ranger Sgt. [redacted] and [redacted] proceeded to the scene area in one of [redacted] ski boats.

When they arrived on the scene, they observed a young female wearing a sweater dress lying on the beach, covered with blood. When they approached the area she was on her elbows and knees, rocking back and forth as if in great pain. [redacted] stated she immediately attempted to make the victim more comfortable and tried to calm her down until the ambulance arrived. [redacted] stated the girl advised him, "He was a man with a hood... His face was covered... He was wearing black pants... It hurts, it (cont'd)

REPORTING OFFICER Det/Sgt. [redacted] and [redacted]	RECORDING OFFICER Det/Sgts. [redacted]	TYPED BY	DATE AND TIME 10/5/69, 9 A.M.	typed	ROUTED BY
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NAPA COUNTY SHERIFF'S DEPARTMENT

SUPPLEMENTARY CRIME REPORT -----7

70 CODE SECTION 187 P.C.	71 CLASSIFICATION MURDER	72 CLASSIFICATION FELONY
73 VICTIM'S NAME - LAST, FIRST, MIDDLE, I.F.M. & F.D. SHEPARD, CECILIA ANN		74 ADDRESS, X RESIDENCE, BUSINESS 10733 Mead Lane, Loma Linda

hurts." [redacted] then advised after the female had regained her composure, she told her the man had asked for money but didn't take any. She said she hadn't been raped. [redacted] further advised that the female victim told her that the responsible was wearing glasses, with dark clip-on sunglasses over the hood. She told her that the responsible had a black pistol. [redacted] stated he overheard the male victim advise someone that the responsible was wearing gloves. [redacted] further advised that this is the only information either victim gave them on the responsible, and that they spent the balance of the time attempting to make the victim more comfortable until the arrival of the ambulance.

After the interview with [redacted] Reporting Officers [redacted] and [redacted] returned to the Napa County Sheriff's Office. At 1620 hours R/O Det/Sgt. [redacted] was contacted by a [redacted] of the [redacted] in [redacted] (phone number [redacted]) advised that three young ladies, students at the college, might possibly have information as to a suspect in the attack at Lake Berryessa. The young ladies were identified as [redacted] and [redacted]. [redacted] advised that these girls had been in the Lake Berryessa area from about 3:00 P.M. to 4:30 P.M. the previous Saturday afternoon. They had observed a male subject in a late model, silver blue Chevrolet, two miles north of the A & W Root Beer stand on Knoxville Road. [redacted] advised that the girls had told him they were observed out of the car by this subject while they were sunbathing on the beach. They described the subject as approximately 40 years old, 6 feet tall, dressed in dark clothing. Sgt. [redacted] dispatched Deputy Sheriff Raymond Land to interview these three girls that evening. (The report of [redacted] interview is attached.)

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Reporting Officers spent the balance of the day and evening going through their investigative notes and issuing a statewide All Points Bulletin.

Monday, 9/29/69 - Reporting Officers [redacted] and [redacted] spent the majority of the morning interviewing numerous citizens and officers from other departments regarding this crime and similar crimes. (A general list of possible suspects was begun and they are noted on separate incident reports as to origin of information and description of suspects, attached.)

Reporting Officers were advised by Deputy Sheriff [redacted] who interviewed the three college girls, [redacted] and [redacted] that the information appeared to have some merit and advised that the three young ladies would be in the office in the afternoon for further interview.

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REPORTING OFFICERS Det/Sgt., [redacted] and [redacted]	RECORDING OFFICER Det/Sgts [redacted]	TYPED BY	DATE AND TIME 10/5/69, 2 P.M.	typed	ROUTED BY
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NAPA COUNTY SHERIFF'S 3PARTMENT

105907

SUPPLEMENTARY CRIME REPORT -----8

70 CODE SECTION 187 P.C.	71 CRIME MURDER	72 CLASSIFICATION FELONY
73 VICTIM'S NAME - LAST, FIRST, MIDDLE (IF ANY) F BUS SHEPARD, CECELIA ANN		74 ADDRESS X RESIDENT BUSINESS 75 PHONE 10733 Mead Lane, Loma Linda

9/29/69 - 1445 hours - The three young ladies came into the office and were interviewed by R/O Sgt. [redacted], Sgt. [redacted] and Capt. [redacted] R/O [redacted] interviewed a [redacted] years of age, DOB [redacted] Her address at the college is [redacted] (phone number [redacted] Extension [redacted] Washington. [redacted] advised R/O that on 9/27/69 at approximately 3:30 P.M. she and her two girlfriends parked their vehicle at a location two miles north of the A & W Root Beer stand on Knoxville Road. When they left their car they noticed a subject driving a late model silver blue Chevrolet, 2-door sedan, pull up behind them. What appeared to be a white male adult was sitting in the vehicle. They did not observe this subject leave the vehicle. The girls proceeded to the beach area and were sunbathing in their bikinis. After approximately one-half hour had passed, they observed what appeared to be the same subject standing within 40 or 50 feet of them, apparently observing them. This subject was described as 6' tall, weighing 200/210 lbs., muscular build, rather nice-looking. Subject was wearing dark pants and a dark pull-over shirt. The subject would stare at the three girls but when they looked up at him he would look away. The subject hung around the area for approximately 45 minutes and then the girls observed him walk up the hill. [redacted] stated it was very doubtful that from his vantage point in the vehicle the subject could observe the three girls on the beach. She believes he waited in his vehicle and then followed them down after they were on the beach. [redacted] further described the car as appearing very conservative. She stated the car did not appear to belong to any young person such as a teenager. She did state the car had California license plates but did not notice the number.

The other two young ladies, [redacted] and [redacted] were interviewed by Sgt. [redacted] and Capt. [redacted] who was interviewed by R/O Det/Sgt. [redacted] [redacted] is a [redacted] DOB [redacted] home address [redacted] (phone number [redacted] stated she left the Angwin area with two other girls, [redacted] and [redacted] at approximately 2:45 P.M. 9/27/69. The girls drove through Pope Valley to Lake Berryessa where they parked their vehicle two miles north of the A & W Root Beer stand. [redacted] stated she observed a subject go into the parking lot area to the south. Subject went past their vehicle and backed up so their rear bumpers were nearly touching. Vehicle described as a 1966 or 1967 light blue Chevrolet with California plates. Witness believes the vehicle was a 2-door sedan and described the headlights as being long rather than round. The rear window glass was tinted quite dark.

Another vehicle from Angwin with Arizona plates was in the parking area and witness saw the occupants, a [redacted] and a [redacted] The three girls went (cont'd)

REPORTING OFFICERS Det/Sgts [redacted] and [redacted]	RECORDING OFFICERS Det/Sgts. [redacted]	TYPED BY	DATE AND TIME typed 10/5/69, 2:00 PM	ROUTED BY
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NAPA COUNTY SHERIFF'S DEPARTMENT

105907

SUPPLEMENTARY CRIME REPORT -----9

10 CODE SECTION 187 P.C.	MURDER	10 CLASSIFICATION FELONY
73 VICTIM NAME SHEPARD, CECELIA ANN	74 ADDRESS 10733 Mead Land, Loma Linda	75 PHONE

to the beach and shortly thereafter noticed the male subject watching them from the edge of the trees. After about 30 minutes the subject came down by the beach and passed within 20 feet of witness [REDACTED] as he walked from south to north. Subject was described by [REDACTED] as approximately [REDACTED] years of age, 6' to 6'2" tall, 200/225 lbs., black hair possibly styled, with a part on left, rounded eyes, thin lips, medium nose, straight eyebrows, small ears, well built, rather nice-looking. Subject was wearing a black short-sleeved sweater shirt, bunched up in front, and a white tee shirt hanging out in back, and dark trousers. The three girls left the area about 4:30 P.M. and the subject's vehicle was gone. Witnesses did not observe the subject either leave or get back into his vehicle.

_____ was interviewed by R/O Capt. _____
is a [redacted] DOB [redacted] address [redacted] (telephone number [redacted])
[redacted] is employed as a secretary of the college press. [redacted]
[redacted] observed the same vehicle which was described as a late model Chevrolet, sky blue in color. The rear tail lights appeared to be long rather than round. [redacted]
[redacted] stated they parked their vehicle at approximately 2:55 P.M. and observed the subject in his vehicle at that location. The girls proceeded to the beach and she, [redacted] again noticed the subject about 30 to 45 minutes after they were at the beach. She noticed him standing on the bank approximately 45 yards from her location. She described the subject as 6 feet tall, stocky build, about 200 lbs., black short-sleeved sweater shirt, dark blue slacks, and straight dark hair neatly combed. She guessed his age at approximately 30 years. Subject had medium color skin and was not wearing glasses. [redacted] stated she thought she saw a white belt around his back but it possibly was a tee shirt hanging out. She further stated that the man was fairly nice-looking, with a round face. [redacted] did not observe the subject leave the area in his vehicle. [redacted] b6 b7C

9/29/69 - 1600 hours - Reporting Officers Sgt. [] and Sgt. [] were advised by Capt. [] that the female victim, MISS CECELIA SHEPARD, had just died at Queen of the Valley Hospital. Capt. [] who is Chief Napa County Coroner, stated he would handle the case and contact [] who would perform the autopsy the next morning. Capt. [] further advised R/Os that the remains would be removed to Morrison Funeral Home where [] would complete the autopsy.

At 1945 hours 9/29/69, R/Os [] and [] were contacted by Probation Officer [] had observed the footprint design that R/Os had taken at the scene and stated he had knowledge of a possible similar shoe sole design. [] brought into the office a [] address [] Napa, California (phone number []) is employed at []

NAPA COUNTY SHERIFF'S DEPARTMENT

SUPPLEMENTARY CRIME REPORT -----10

70 CODE SEC. C.H.	CRIME	72 CLASSIFICATION
187 P.C.	MURDER	felony
73 VICTIM NAME	ADDRESS	74 PHONE
SHEPARD, CECELIA ANN	10733 Mead Lane, Loma Linda	

[redacted] and is a [redacted]. He is a retired Master Sergeant in the United States Air Force. [redacted] showed R/O a pair of Air Force chukker boots that belonged to him. He described these boots as being Government issue, issued to all Air Force personnel at Lackland Air Force Base, Texas. They are primarily designed as a wing-walker shoe, however according to [redacted] most Air Force personnel and many of the civilian personnel employed at Air Force bases had this type of shoe. The sole design of this shoe exactly matched the plaster cast design that Sgt. [redacted] had taken at the scene of the crime. It should be noted that Det/Sgt. [redacted] had attempted to find a similar shoe design at the local shoe stores in the Napa area, with negative results. (Refer Sgt. [redacted] supplementary report.) [redacted] was asked if we could keep his shoes for identification purposes and he agreed. [redacted] was also advised that this information regarding the type of footprint R/Os had discovered had not been released to the press or general public. [redacted] stated he would cooperate with R/Os and keep this information confidential.

9/30/69, 0810 hours - R/O Sgt. [redacted] received a telephone call from a [redacted] [redacted] years of age, DOB [redacted] is a student at [redacted] and resides at [redacted] [redacted] stated that about 5:15 P.M. Saturday, 9/27/69 she was in the Lake Berryessa area with a male companion, a [redacted] years of age, also a student at [redacted] [redacted] She stated at this time they were parked on the Knoxville Road approximately one mile south of the Lake Berryessa Marina. She stated shortly after they parked the vehicle they observed the victims who were known to them, BRYAN HARTNELL and CECELIA SHEPARD, driving south on Knoxville Road in BRYAN's white Kharman Ghia. She stated as the HARTNELL vehicle drove by, BRYAN waved out the window and said, "Hi, [redacted], referring to [redacted] [redacted] stated that they did not see the HARTNELL vehicle any other time that day.

9/30/69, 0900 hours - R/Os Det/Sgt. [redacted] and Det/Sgt. [redacted] accompanied by Sgt. [redacted] proceeded to the Morrison Funeral Home in St. Helena. They were met at the funeral home by Capt. [redacted] and the owner of the Funeral Home, [redacted] Shortly after the R/Os arrived, they were met by the pathology surgeons, [redacted] and [redacted] offices are at [redacted] phone number [redacted] Above mentioned officers witnessed the autopsy of the female victim, MISS CECELIA SHEPARD, performed by [redacted] and [redacted] Sgt. [redacted] took photographs of the deceased both before and during the autopsy. R/O Sgt. [redacted] took notes of the various wounds suffered by the victim. (Complete autopsy report and findings by [redacted] and [redacted] is attached.) The autopsy was concluded at 12:00 noon. Briefly stated, [redacted]

(cont'd)

REPORTING OFFICER	RECORDING OFFICER	TYPED BY	SIGNED IN TIME	ROUTED BY
Det/Sgts. [redacted] and [redacted] Det/Sgts. [redacted]			10/5/69, 3 PM	
FURTHER ACTION <input checked="" type="checkbox"/> REC TO SUPPLIES <input checked="" type="checkbox"/> DEFECTIVE <input type="checkbox"/> OII NO <input type="checkbox"/> A VEHICLE <input type="checkbox"/> FAIR <input type="checkbox"/> JUST ARRIVED <input type="checkbox"/> OTHER <input type="checkbox"/> COV'D <input type="checkbox"/> OTHER		REVIEWED BY		CATE

NAPA COUNTY SHERIFF'S DEPARTMENT
SUPPLEMENTARY CRIME REPORT -----11

72 CODE SECTION 187 P.C.	72 CLASSIFICATION MURDER	72 ADDRESS SHEPARD, CECELIA ANN	72 PHONE 10733 Mead Lane, Loma Linda
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advised that the cause of death was shock and loss of blood brought on by two main stab wounds.

9/30/69, 1430 hours - R/O Det/Sgt. [redacted] contacted CAPT. [redacted] at Travis Air Force Base and arranged for an interview with COL. BENDER, CAPT. [redacted], and SGT. [redacted] to take place on Wednesday morning, October 1st, 1969, at 9:30 A.M. R/Os wanted to talk to someone at Travis regarding the shoemarks that were found on the scene. The remainder of the day and evening was spent in answering phone calls from people who had possible knowledge of the crime.

Wednesday, 10/1/69 - 0900 hours - Sgts. [redacted] and [redacted] went to Travis Air Force Base and were present at an interview in Col. BENDER's office, who is Commanding Officer in charge of base security. Also present at this meeting besides the aforementioned officers was LT. COL. LAVERICK of the Office of Special Investigation. Reporting Officers [redacted] and [redacted] advised the Air Force personnel present of the portion of the evidence we had discovered at the crime scene and asked them for assistance in locating where this type of shoe was sold or issued.

LT.COL.LAVERICK advised that his office would assist assigned investigators in attempting to locate the source of the shoe.

Officers were directed to the Base Supply with the assistance of Special Agent [redacted] of O.S.I., at which time it was determined through Base Supply that this shoe in question was of Government issue and that it was not kept in stock at Base Supply, however it was believed that the Sales Store had such an item. It was then explained that if a military person or civilian employee was determined to be in need of such an item, he first reported to the Base Supply, at which time he was issued a purchase requisition which he in turn took to the Sales Store and the type of shoe was issued to the individual and they in turn required the individual to sign the purchase requisition showing that he did receive the item. This purchase requisition states the type of shoe that the individual was to receive, however makes no reference as to size.

Assigned investigators, accompanied by Special Agent [redacted] proceeded to the Sales Store located on Travis Air Force Base. After a short period of time R/Os located in stock a shoe fitting the identical description of the artist's sketch drawn from the plaster cast which officers had in their possession. The identical shoe with identical tread was found and a shoe bearing the closest measurements in the artist's sketch drawn from the plaster cast was measured and found to be a size 10 $\frac{1}{2}$ R in military styling or a 10 $\frac{1}{2}$ D in civilian equivalent. It was determined through Air Force records that they were unable to furnish officers with the

(cont'd)

REPORTING OFFICERS Det/Sgts [redacted]	RECORDING OFFICER Det/Sgts [redacted]	TYPED BY	DATE AND TIME typed 10/5/69. 3 P.M.	RC'D BY
FURTHER ACTION <input checked="" type="checkbox"/> RE-APPS <input type="checkbox"/> FUGITIVE <input type="checkbox"/> JUVENILE <input type="checkbox"/> ST. AT NO. <input type="checkbox"/> SUS. FUG.	DETERMINATIVE <input checked="" type="checkbox"/> CL. <input type="checkbox"/> PATROL <input type="checkbox"/> OTHER <input type="checkbox"/> T.H.P.P.	REVIEWED BY		

NAPA COUNTY SHERIFF'S DEPARTMENT

105907

SUPPLEMENTARY CRIME REPORT -----12

70 CODE SECTION 187 P.C.	CRIME MURDER	72 CLASSIFICATION FELONY
73 VICTIM'S NAME - LAST, FIRST, MIDDLE (if known) B.I.N. SHEPARD, CECELIA ANN	74 ADDRESS 10733 Mead Lane, Loma Linda	75 RESIDENTIAL BUSINESS 76 PHONE

data regarding the sales of this type shoe due to the fact that no recordings were made of the specific sizes, however purchase records indicate over the past 13 months approximately 100 pairs of this size shoe, namely 10^{1/2}R, had been purchased and disposed of through sales. Air Force records indicate this type shoe is manufactured by the International Shoe Company, Philadelphia, Pennsylvania, then shipped to Air Force Depot, Ogden, Utah, and from there shipped to the various military installations upon requisition orders.

10/1/69 - 1400 hours - Reporting Officers [] and [] then proceeded to the Vallejo Police Department and met with Sgt. [] and Sgt. []. Officers exchanged information regarding Vallejo's crime of 7/4/69 and our particular incident. Suspect information was exchanged and is listed in the separate suspect file.

Investigating Officers checked to determine the validity of the decoded message and as to how far the original cyphers had been decoded. It was then learned that the message had been decoded by at least two different sources, one being by [] and [] and the other by the FBI in Washington. It was noted that these cyphers were broken independent of one another and the FBI confirmed the validity of the original decoded message. It was also learned that there was a small portion on the very end of the coded message that had not been decoded for reasons unknown. b6 b7C

The balance of the afternoon and evening Reporting Officers and other investigating officers met to exchange information and further discuss the evidence at hand.

Thursday, October 2nd, 1969, 0845 hours - Reporting Officer Lonergan received a telephone call from Special Agent [] OSI, Travis Air Force Base. Subject called to report that approximately 500 to 1,000 of that type of wing-walker shoe have been sold as surplus on the Base. This would be over and above those sold at the Sales Store. Agent [] further related he has the names of all the subjects who have purchased this item through surplus and will keep these names available to officers upon request.

The balance of the morning was spent searching fingerprint evidence and answering phone calls from possible witnesses.

Thursday, 10/2/69, 1400 hours - R/Os [] and [] attended the funeral services for victim CECELIA SHEPARD. These services were held at the Pacific Union College Church, Angwin, California. Sgts. [] and [] positioned themselves (cont'd)

REPORTING OFFICER Det/Sgts []	RECORDING OFFICER Det/Sgts. []	TYPE NO.	DATE AND TIME 4:00 P.M., 10/5/69	ROUTED BY
FURTHER ACTION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	COPIES <input checked="" type="checkbox"/> DETECTIVE <input type="checkbox"/> CII <input type="checkbox"/> JUVENILE <input type="checkbox"/> MFR <input type="checkbox"/> TST ATTNY <input type="checkbox"/> MFR <input type="checkbox"/> SD/PD <input type="checkbox"/> MFR	REVIEWED BY	DATE	

105907

NAPA COUNTY SHERIFF'S PARTMENT

SUPPLEMENTARY CRIME REPORT -----13

70 CRIM. SEC. 11 187 P.C.	MURDER	72 CLASSIFICATION FELONY
73 ADDRESS X SHEPARD, CECELIA ANN	74 ADDRESS X 10733 Mead Lane, Loma Linda	75 PHONE

inside the church in order to observe all persons who viewed the services and the remains of victim CECELIA SHEPARD. Det/Sgt. [] Sgt. [] and Detective [] of the Napa Police Department positioned themselves outside the church and photographed all persons entering and leaving the services. This included individual photographs and group scenes. Sgts. [] and [] also attended the graveside services at the St. Helena Cemetery in St. Helena.

Friday, 10/3/69 - Reporting Officer Det/Sgt. [] contacted [] Napa State Hospital, advised him to set up an interview with a patient who is a possible suspect in our case. The patient is identified as [] yrs. of age, DOB [] 6'2", 223 lbs. [] had previously reported that this subject had left the hospital on a pass Friday evening, 9/26/69, and returned to the hospital Monday afternoon, 9/29/69. This subject also had spent time in the Air Force and was discharged from the Air Force in January 1969 for psychiatric problems. According to the doctors at the hospital, this subject was capable of committing this type of a crime. R/O in the presence of [] and Security Officer [] interviewed subject [].

[] was very cooperative and talkative to R/O and went over his activities the prior weekend. Briefly stated, [] whose parents live in Vallejo, never left the Vallejo area that weekend and stayed around home talking with his mother, stepfather, and three brothers. After interviewing subject, it was the opinion of R/O Sgt. [] that this subject was not the responsible. He had a definite very fast manner of speaking which was completely opposed to the victim's statement concerning the suspect's voice.

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R/O also contacted the mother of the suspect, a [] at []. [] stated more or less the exact same thing that her son had stated as to his whereabouts that weekend. It appears that this subject has a reliable alibi as to his activities and had no access to a vehicle that weekend. This subject was cleared as far as this crime is concerned.

The balance of the morning and afternoon was spent by R/Os Det/Sgts. [] and [] going over physical evidence and dictating reports.

Investigation continuing.

REPORTING DAY OF Det/Sgts. []	RECORDING OFFICER Det/Sgts []	DATE AND TIME 10/5/69, 4 P.M.	typed by []
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		REVIEWED BY []	

NAPA COUNTY SHERIFF'S DEPT. SUPPLEMENT CRIME REPORT

70 CODE SECTION 187 P.C.	71 CRIME MURDER	72. CLASSIFICATION FELONY
73 VICTIM'S NAME - LAST, FIRST, MIDDLE (FIRM IF BUS.) CECELIA SHEPARD		74. ADDRESS RESIDENCE BUSINESS 75 PHONE

At 2020 hours, 9-27-69, Reporting Officer received phone call from the office that there had been a double stabbing at Lake Berryessa, and that an ambulance had been dispatched. Reporting Officer requested Det. Sgt. [redacted] and [redacted] be called out and that the units at the Lake be instructed to rope off the scene.

Reporting Officer met Det. Sgt. [redacted] at Queen of the Valley Hospital at 2045 hours, and was advised the Suspect had made a phone call from a pay phone at the Napa Car Wash, Main and Clinton Streets, Napa, and that units were at that scene.

At 2050 hours Reporting Officer met Officer [redacted] and Reserve Officer [redacted] at the Napa Car Wash. They stated they had secured the area and no one had approached the area that was located on the south wall of a building located at the intersection of Main and Clinton Street.

Color photographs were taken of the scene and the area around the phone searched for physical evidence. No indications were found that the Suspect had left at a high rate of speed and tire and foot prints were not observed on the blacktop.

Reporting Officer then approached the phone booth and noted the receiver of the phone was off the hook, and laying on the shelf with the mouth piece directly under the phone unit, the ear piece protruding to the south and the openings on the receiver facing the east wall of the booth. The phone unit was located on the north corner of the east wall of the booth the folding door entrance being the south enclosure of the booth. This scene was photographed to show the receivers position and the phone number 255-9673.

The phone booth was then processed for latent impressions and latent impression lifts #1 thru 35 were taken into evidence. The latent impression removed on latents lifts 29, 30 and 31, and the impression lifted on lift 32, was photographed prior to lifting. Heavy beads of moisture remained on the impressions photographed approximately three hours after the arrival of Reporting Officer at this scene. Processing of this scene was completed at 2349 hours and Reporting Officer proceeded to the Lake Berryessa scene arriving at 0020 hours, 9-28-69.

This scene was located on the east side of Knoxville Road, 7/10 mil north of Lake Berryessa Park Headquarters. Processing of this area began with parking area where Victim's 1956 Karmann Ghia, Oregon License 4U2040 was parked. Reporting Officer observed a wooden foot stile over the fence approx-

REPORTING OFFICERS Det. Sgt. [redacted]	RECORDING OFFICER Det. Sgt. [redacted]	TYPED BY [redacted]	DATE AND TIME 10-5-69 (Cont'd)	ROUTED BY [redacted]
FURTHER ACTION <input checked="" type="checkbox"/> YES TO COPIES <input checked="" type="checkbox"/> DETECTIVE <input checked="" type="checkbox"/> CII <input type="checkbox"/> NO <input type="checkbox"/> JUVENILE <input type="checkbox"/> PATROL <input type="checkbox"/> DIST. ATTNY <input type="checkbox"/> OTHER <input type="checkbox"/> SO/PD <input type="checkbox"/> OTHER				
		REVIEWED BY _____ DATE _____		

NAPA COUNTY SHERIFF'S DEPT. SUPPLEMENT CRIME REPORT

69 CASE NO

105907

(Cont'd Page -2-)

70. CODE SECTION 187 P.C.	71. CRIME MURDER	72. CLASSIFICATION FELONY			
73. VICTIM'S NAME - LAST, FIRST, MIDDLE (FIRM IF BUS.) CECELIA SHEPARD		74. ADDRESS	RESIDENCE	BUSINESS	75. PHONE

imately 15 feet south of vehicle which separated the parking area from the Lake property.

Reporting Officer observed foot prints leading from the foot stile to the passenger side of the Karmann Ghia, where Suspect had to approach to letter the passenger door of the vehicle. The foot prints measured approximately 13" in length, 4½" at the widest point of the sole; heel width 3¼ inches and heel length 3 1/7 inches. A parallel bar tread occurred on both the heel and sole inset from the edges approximately 3/4 inches.

The foot prints were measured and Sgt. [] photographed the impressions. Sgt. [] also photographed Reporting Officer pointing to the foot print which was to be cast, said foot print indicating the direction of travel was toward the vehicle. A plaster cast was made of this impression. b6 b7c

Reporting officer observed one set of tire impressions approximately 20 feet to the rear of Victim's vehicle. The Suspect track nearer the fence measured approximately 4½" in width and showed a parallel tread design. This tread design was photographed by Sgt. [] and then a plaster cast was made by Reporting Officer.

The tire impression furthest from the fence measured approximately 5½ inches in width and contained a single straight tread design approximately 1/8 inch width in the center with a herringbone design tread on either side consisting of three approximately 1/16 inch treads between two approximately 1/8 inch treads. This tire impression was photographed by Sgt. [] and a plaster cast made by Reporting Officer. The distance between the inside of the left tread to the inside of the right tread measured approximately 52 inches.

General scene photographs of the parking area, the Victim's vehicle, and of the writting on the vehicle door was taken by Sgt. [].

Reporting Officer observed written on the passenger's door of the Victim's vehicle, a circle with a cross super imposed over it, and below the symbol the words Vallejo, 12-20-68, 7-4-69, Sept. 27, 69 - 6:30, by knife. The writting instrument used appeared to have been a felt type pen approximately 3/16 inch wide on the tip, with black ink. The vehicle was then processed for latent impressions, and latent lifts 36 thru 43 were taken into evidence.

The vehicle was found to be locked and no signs of attempted entry was observed. The vehicle was then impounded and taken to the Lake Berryessa Park Headquarters where it was secured in a locked garage. Sgt. [].

REPORTING OFFICERS Sgt. []	RECORDING OFFICER Det/Sgt []	TYPED BY	DATE AND TIME (Cont'd) 10-5-69	ROUTED BY
FURTHER ACTION <input checked="" type="checkbox"/> YES TO <input type="checkbox"/> NO	COPIES <input checked="" type="checkbox"/> DETECTIVE CII <input type="checkbox"/> JUVENILE PATROL <input type="checkbox"/> DIST. ATTNY OTHER <input type="checkbox"/> SO/P.D. OTHER	REVIEWED BY	DATE	

NAPA COUNTY SHERIFF'S DEPT. SUPPLEMENT CRIME REPORT

(Cont'd Page -3-)

70. CODE SECTION 187 P.C.	71. CRIME MURDER	72. CLASSIFICATION FELONY			
73. VICTIM'S NAME - LAST, FIRST, MIDDLE (FIRM IF BUS.) CECELIA SHEPARD		74. ADDRESS	RESIDENCE	BUSINESS	75. PHONE

then turned over to Reporting Officer the following items of evidence, he stated he received from Park Ranger [redacted]

- #1. One multi colored blanket.
- #2. One Army type field jacket.
- #3. Several lengths of plastic clothes line, white in color, with a hollow core which appeared to be blood stained.
- #4. One Fourex brand prophalastic box containing two prophalastics sealed.
- #5. One Playboy party joke book.

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These items were tagged for evidence and locked in Reporting Office vehicle for transportation to the Napa County Sheriff's Department.

At approximately 0800 hours, 9-28-69, Reporting Officer together with Sgt. [redacted] followed the suspected footprints down the hill toward the lake to the point of attack, and then back to the parking area.

Plaster casts were made of a heel print at the bottom of the first hill. Another cast was taken of a complete footprint at the junction of the trail, and a dirt road approximately 50 feet from the point where Park Ranger [redacted] discovered Victim Hartnell. A footprint in the sand approximately 100 ft from the point of attack, bearing the suspected tread pattern which also showed a circular design in the instep area of the print, was photographed and cast.

General scene photographs were taken by Reporting Officer, and cardboard beer flats were placed over suspected footprints, with the lengthwise portion of the flat paralleling the footprint to show direction of travel toward the scene of the stabbing.

A green bottle was found near a stump on the suspected approach route near the point of attack. This bottle was processed for latent impressions and lifts 44 thru 48 were taken into evidence. The bottle was tagged and placed into evidence.

Soil samples were taken from the following locations:

- #1. The point where the attack occurred.
- #2. From behind the tree the Suspect reportedly had stood to put on the hood.

(Cont'd)

REPORTING OFFICERS Det/Sgt. [redacted]	RECORDING OFFICER Det/Sgt. [redacted]	TYPED BY	DATE AND TIME 10-5-69	ROUTED BY
FURTHER ACTION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	COPIES TO <input checked="" type="checkbox"/> DETECTIVE <input type="checkbox"/> JUVENILE <input type="checkbox"/> DIST. ATTNY <input type="checkbox"/> SO/PD	CII <input type="checkbox"/> PATROL <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	REVIEWED BY	DATE

105907

NAPA COUNTY SHERIFF'S DEPT. SUPPLEMENT CRIME REPORT

70. CODE SECTION 187 P.C.	71. CRIME MURDER	72. CLASSIFICATION FELONY
73 VICTIM'S NAME - LAST, FIRST, MIDDLE (FIRM IF BUS.) CECELIA SHEPARD		74 ADDRESS RESIDENCE BUSINESS 75 PHONE

#3. From the parking area beside the Victim's vehicle.

Aerial photographs were ordered by Reporting Officer and Napa Register's Photographer [REDACTED] took these pictures from an aircraft piloted by Special Deputy [REDACTED] of the Napa County Sheriff's Dept. Aerial Squadron.

Following a thorough crime scene search Reporting Officer returned to the Napa County Sheriff's Dept. at approximately 1700 hours, 7-28-69. At this time the following items of evidence were taken into Reporting Officers custody from the evidence locker. These items were brought from the Queen of the Valley Hospital emergency room by Officers [REDACTED] and [REDACTED]

- #1. Shoes and socks of Victim Hartnell.
- #2. Trousers, shirt, T-shirt, shorts, and belt of Victim Hartnell.
- #3. Wallet, glasses, key, and playing cards belonging to Victim Hartnell.
- #4. Dress, slip, panties, and bra, of Victim Shepard.

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9-29-69

The Victim's vehicle was removed from impoundment at Lake Berryessa Park Headquarters, and was brought to the Napa County Corporation Yard where the passenger door was removed, and was taken into evidence by Reporting Officer.

Case continuing.

DET/SGT [REDACTED] sr
10-5-69

REPORTING OFFICERS Det/Sgt [REDACTED]	RECORDING OFFICER Det/Sgt [REDACTED]	TYPED BY [REDACTED]	DATE AND TIME 10-5-69	ROUTED BY [REDACTED]
FURTHER ACTION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	COPIES TO <input checked="" type="checkbox"/> DETECTIVE <input type="checkbox"/> JUVENILE <input type="checkbox"/> DIST. ATTNY <input type="checkbox"/> SO / P.D.	CII <input type="checkbox"/> PATROL <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER		
REVIEWED BY [REDACTED]			DATE [REDACTED]	

DJS.

E 007 NAP
SACRAMENTO APB

9-30-69 1500

NAP NAPA SHERIFF

---187 PC - MURDER.

SUPPLEMENT TO OUR 1-NAP 9-28-69 APB 217 PC - ATTEMPTED MURDER.
FEMALE VICTIM WFA 22 YRS DIED 1600 HRS 9-29-69. VICTIM WAS STABBED
TEN TIMES FIVE TIMES IN BACK FIVE TIMES IN FRONT WITH BLADE 9"
TO 11" LONG AND APPROX 1" WIDE POSSIBLY BAYONET TYPE OR MILITARY
COMBAT TYPE DOUBLE EDGE KNIFE. WOUNDS WERE ALL INFILCTED BY OVER
HAND STABBING. SUSPECT WAS ON TOP OF VICTIM AND STRUCK DOWNWARD.
FOLLOWING DESCRIBED SUBJECT SEEN IN THE AREA ABOUT 2 HOURS PRIOR TO
THE ATTACK. MEETS GENERAL PHYSICAL AND CLOTHING DESC. OF SUSPECT.
IDENTI-KIT CODE H143+2 REVERSE/L27/C22-2/N37/E31+L/D01+1 HAIRLINE
SWEEPS BACK ABOVE EARS - PART SLIGHTLY LOWER AND HAIR TAPERS NOT
AS ABRUPTLY ON TOP. AGE LINES AND CLEFT LINES FROM MOUTH SHOULD
BE REMOVED. EYES ARE SLIGHTLY MORE ROUNDED ON THE BOTTOM. CHIN
LINE SLIGHTLY MORE SQUARED. WE HAVE COMPLETE COMPOSITE AVAILABLE
AND WILL HAVE IT OUT AS SOON AS POSSIBLE. AS STATED IN ORIGINAL
TELETYPE EVIDENCE LEFT AT VICTIM'S CAR APPEARS TO TIE SUSPECT IN
TO 187'S IN SOLANO CO 20-CD VALLEJO PD. MALE VICTIM STILL IN
SERIOUS CONDITION.

---ATTN VALLEJO PD.

---ATTN SOLANO CO 20.

---ATTN CII.

---ATTN LT [REDACTED] - REFER TO BUREAU DIV LAPD MAG-5211 EXT 2531 -

CRIME REPORT NBR. 69-080400-2.

---REFER DET SGT'S MARLOW-LONERGAN - CASE 105907.

EARL RANDOL SHERIFF NAPA COUNTY VIA NAP DELL.

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DJS

E 007 NAP
SACRAMENTO APB.

9-30-69 1500.

NAP NAPA SHERIFF.

---187 PC - MURDER - CORRECTION.

---IDENTI-KIT CODE SHOULD READ - H143+2 REVERSE /L27/C22-2/N37
/E31+1/D01+1 HAIRLINE SWEEPS BACK ABOVE EARS.

---REFER DET SGT'S MARLOW-LONERGAN - CASE 105907.

EARL RANDOL SHERIFF NAPA COUNTY VIA NAP DELL.

NAP P-29-69 CRIM - E M E R G E N C Y -

217 PC - ATTEMPTED MURDER

VI STINS 1 WMA 20 YRS AND 1 WFA 22 YRS OCCURRED REMOTE BEACH AREA LAKE BERRYEASSA SATURDAY 9-27-69 APPROX 6:30 PM YOUNG COUPLE LYING ON BLANKET NEAR BEACH WHEN THEY WERE APPROACHED BY A WMA WEARING A DARK HOOD OVER HEAD AND BRANISHIG A DARK AUTOMATIC PISTOL. SUSPECT DESCRIBED AS FOLLOWS. WMA 20 TO 30 YRS. 5-9 TO 6-0 200 TO 250 LBS VERY STOCKY BUILD, WEARING DARK PANTS DARK JACKET OR OVERCOAT WITH SQUARE HOOD THAT FELL BELOW SHOULDERS TO CHEST. PAINTED IN WHITE ON HOOD NEAR CHEST WAS A CROSS WITH A CIRCLE AROUND IT. HOOD HAD LARGE O OPENINGS CUT FOR EYES AND J MOUTH. SUBJECT WORE DARK CLIP ON TYPE GLASSES THAT APPEARED TO BE ATTACHED TO REGULAR GLASSES UNDER HOOD. MALE VICTIM COULD SEE BROWN HAIR THROUGH EYE OPENINGS. SUSPECT TOLD VICTIMS THAT HE WANTED THEIR MONEY AND CAR KEYS. SUSPECT ALSO STATED HE WAS AN ESCAPEE FROM DEER LODGE MONTANA STATE PRISON AND HAD KILLED A GUARD. THIS HAS BEEN CHECKED AND APPEARS TO BE FALSE. SUSPECT MADE MALE VICTIM LIE DOWN AND ORDERED FEMALE VICTIM TO TIE MALES HANDS BEHIND HIS BACK. SUSPECT THEN TIED FEMALES HANDS BEHIND HER AND LAYED BOTH VICTIMS FACE DOWN. ROPE WAS SMALL RUBBER COATED CLOTHES LINE THAT SUSPECT APPARENTLY BROUGHT WITH HIM. SUSPECT THEN STABBED MALE VICTIM APPROX 10 TIMES IN BACK ONLY STOPPING WHEN VICTIM FEIGNED DEATH. WUWP SUSPECT THEN ATTACKED FEMALE STABBING HER NUMEROUS TIMES BOTH FRONT AND BACK. SUSPECT THEN LIFT THE AREA WITH OUT TAKING ANY OF THE VICTIMS PROPERTY. SUSPECT LEFT INSCRIPTION ON VICTIMS VEHICLE INDICATION HE HAD KNOWLEDGE OF HOMICIDES IN CITY OF VALLEJO AND SOLANO CO. ALSO LEFT CROSS WITH CIRCLE ON VICTIMS VEHICLE. AT 7:40 PM ABOUT 1 HOUR AFTER ASSAULT, NAPA POLICE DEPT RECEIVED A PHONE CALL FROM A MALE SUBJECT WHO WANTED TO REPORT A "DOUBLE MURDER". SUBJECT DESCRIBED AREA OF ASSAULT AND VICTIMS VEHICLE.

SUBJECT THEN STATED "I'M THE ONE THAT DID IT". SUBJECT LEFT PHONE OFF THE HOOK. CALL WAS TRACED TO A PAY PHONE IN DOWNTOWN CITY OF NAPA. PHONE WAS FOUND OFF THE HOOK, HAVE LATENTS OFF PHONE AND BOOTH. VICTIMS STATED SUSPECT WORE GLOVES AT CRIME SCENE. FEMALE VICTIM IN CRITICAL CONDITION AT THIS TIME.

---ATTN VALLEJO PD - VERY SIMILAR UR 187 PC OF 7-5-69
---ATTN SOLANO CO SO - VERY SIMILAR UR 187 PC OF 12-20-68
---ATTN CII - ANY OTHER SIMILARITIES

---REVER DEY/SGTS [REDACTED] CASE 105907
EARL RANDOL SHERIFF NAPA COUNTY VIA NAP

BLE 1837 PDT

b6
b7c

231 CII P-30-69 CRIM

SO NAPA

/ATTN. DET. SGTS. [REDACTED]

- CS 105907/

RE R 1 NAP OF 9-28-69 - 217 PC ATTEMPT MURDER - ONLY SIM. OUR FILES ARE CASES YOUR EP. TO PD VALLEJO 1 VLO 0 7-7-69 & SO FAIRFIELD 14 FFS OF 12-28-68. COULD YOU PLS SEND COPY OF PHOTOS OF VICTS. VEH. & SYMBOL /CROSS W/CIRCLE/ LEFT ON VEH. RUSH MAIL. TO CII ROBBERY UNIT BAUEN/EPPS.

CII ROBBERY UNIT TIMM/BAUER/EPB/TC 1135 PDT

LOG OF STATION

TIME	STATION CALLED	CALLED BY	OPERATOR HERE	OPERATOR THERE	NATURE OF TRANS AND NOTES
			Sep 27		
4:26	43L2	43L1	JM	L1	10-97 I take care of it. B. copy.
4:27	B	43L4	JM	L4	10-7 dock
4:41	B	43L1	"	L1	10-97
5:01	B	43L1	"	L1	10-8
5:13	B	43L1	"	L1	10-7 dock
7:00	43L1	B	JM	B	citizen report subject passed a subject states a citizen called for help & said he had been Rob of & Stabbed in chest. 11-98 with citizen Rancho Stock
	B	43L1			Rancho
7:04	43L1	B	JM	B	11-98 dock about 2 min
7:05	B	43L4	"	L1	10-97
7:08	St 1	43L1	JM	L1	We have a possible staying north of Park Head of Cen you send up unit up. 3 gate passed P. I. I leave gate open. Unit enroute
7:14	St 1	43L4	JM	L1	This is ATT send unit up

LOG OF STATION

TIME	STATION CALLED	CALLED BY	OPERATOR HERE	OPERATOR THERE	NATURE OF TRANS AND NOTES
9 AM			Sept 21		
7:45	43L1	B	JRN	L1	will you send an ambulance (yes 1st 110-4) code 3
7:16	STI	43L1	JRN	L1	2 people have been stabbed one in the back can't see where the other one has been stabbed
7:17	B	43L1	JRN	L1	Stand by in the office A
7:20	B	43L2	"	L2	10-22 we have a subject in. Blanket - we are wait for Ambula do you have an information
7:21	43L2	STI	JRN	STI	Neg at gun point they were tied to a tree & stabbed pretty bad. know it was a white man.
7:23	43L1	STI	JRN	25L27 25X5	subject a erroute passing out
7:26	43L1			25X5	we did occur on the Beach, Brown hair
		one white male on foot			

NAPA COUNTY SHERIFF'S DEPARTMENT

2. CODE SECTION 187 P.C.		3. CRIME MURDER			4. CLASSIFICATION FELONY			5. REPORT AREA Lake Berryessa			
6. DATE AND TIME OCCURRED - DAY 9/27/69, 6:30 PM, Saturday		7. DATE AND TIME REPORTED 9/27/69, 7:10 P.M.			8. LOCATION OF OCCURRENCE Shore line, 1/2 mile north of Lake Berryessa Park Headquarters						
9. VICTIM'S NAME LAST FIRST MIDDLE (FIRM IF BUSINESS) SHEPARD, CECELIA ANN				10. RESIDENCE ADDRESS 10733 Mead Lane, Loma Linda, Calif. 796-2008			11. RES. PHONE				
12. OCCUPATION Student	13. RACE - SEX WFA	14. AGE 22	15. DOB 1/1/47	16. BUSINESS ADDRESS (SCHOOL IF JUVENILE)			17. BUS. PHONE				
CODES FOR V=VICTIM W=WITNESS P=PARENT RP=REPORTING PARTY DC=DISCOVERED CRIME BOXES 20 AND 30									18. CHECK IF MORE NAMES IN CONTINUATION		
19. NAME - LAST, FIRST, MIDDLE HARTNELL, BRYAN CALVIN				20. CODE V	21. RESIDENCE ADDRESS Rt.2, Box 252, Troutdale, Oregon			22. RESIDENCE PHONE			
23. OCCUPATION Student	24. RACE - SEX WMA	25. AGE 20	26. DOB 7/1/49	27. BUSINESS ADDRESS (SCHOOL IF JUVENILE) Newton Hall, Pacific Union College 965-2421			28. BUSINESS PHONE				
29. NAME - LAST, FIRST, MIDDLE				30. CODE	31. RESIDENCE ADDRESS			32. RESIDENCE PHONE			
33. OCCUPATION	34. RACE - SEX	35. AGE	36. DOB	37. BUSINESS ADDRESS (SCHOOL IF JUVENILE)			38. BUSINESS PHONE				
MODUS OPERANDI (SEE INSTRUCTIONS)											
39. DESCRIBE CHARACTERISTICS OF PREMISES AND AREA WHERE OFFENSE OCCURRED Victims were resting on blanket near shore line, remote area, Lake Berryessa.											
40. DESCRIBE BRIEFLY HOW OFFENSE WAS COMMITTED Suspect approached victims with hood over face and shoulders, with automatic pistol, tied victims up and then stabbed them multiple times. Victim CECELIA SHEPARD died 9/29/69											
41. DESCRIBE WEAPON, INSTRUMENT, EQUIPMENT, TRICK, DEVICE OR FORCE USED Gun (automatic pistol) - Knife, thin blade, appeared home-made.											
42. MOTIVE - TYPE OF PROPERTY TAKEN OR OTHER REASON FOR OFFENSE Homicide.											
43. ESTIMATED LOSS VALUE AND/OR EXTENT OF INJURIES - MINOR, MAJOR Victim CECELIA SHEPARD deceased. Victim BRYAN HARTNELL in serious condition.											
44. WHAT DID SUSPECT/S SAY - NOTE PECULIARITIES I want your money and car keys (Not taken).											
45. VICTIM'S ACTIVITY JUST PRIOR TO AND/OR DURING OFFENSE Lying on blanket - cozy.											
46. TRADEMARK - OTHER DISTINCTIVE ACTION OF SUSPECT/S Suspect wore hood with cross hair symbol - even cross over circle.											
47. VEHICLE USED - LICENSE NO. - ID NO. - YEAR - MAKE - MODEL - COLORS (OTHER IDENTIFYING CHARACTERISTICS) Vehicle unknown - tire casts made of believed suspect vehicle.											
48. SUSPECT NO. 1 (LAST, FIRST, MIDDLE) UNKNOWN				49. RACE - SEX W M	50. AGE 20	51. HT. 5'-9"	52. WT. 200-	53. HAIR brn	54. EYES	55. ID NO. OR DOB	56. ARRESTED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
57. ADDRESS, CLOTHING AND OTHER IDENTIFYING MARKS OR CHARACTERISTICS Dark cloth hood, dark cloth jacket, dark pants, automatic pistol in holster right hip, knife in sheath left hip.											
58. SUSPECT NO. 2 (LAST, FIRST, MIDDLE)				59. RACE - SEX	60. AGE	61. HT.	62. WT.	63. HAIR	64. EYES	65. ID NO. OR DOB	66. ARRESTED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
67. ADDRESS, CLOTHING AND OTHER IDENTIFYING MARKS OR CHARACTERISTICS										68. CHECK IF MORE NAMES IN CONTINUATION	
REPORTER'S OFFICE 587/5975				DATE AND TIME 9/29/69, 5:00 PM				ROUTED BY b6 b7c			
FURTHER ACTION <input type="checkbox"/> YES COPIES <input type="checkbox"/> TO: <input type="checkbox"/> DETECTIVE <input checked="" type="checkbox"/> CII <input type="checkbox"/> NO <input type="checkbox"/> JUVENILE <input type="checkbox"/> PATROL <input type="checkbox"/> DIST. ATTNY <input type="checkbox"/> OTHER _____ <input type="checkbox"/> SO. / P.D. <input type="checkbox"/> OTHER _____				REVIEWED BY _____ DATE _____							

NAPA COUNTY SHERIFF'S DEPARTMENT

1 CASE NO

105907

2. CODE SECTION 217 P.C.	3. CRIME ASSAULT WITH INTENT TO COMMIT MURDER			4. CLASSIFICATION SHOOTING	5. REPORT AREA Lake Berryessa
6. DATE AND TIME OCCURRED - DAY Sat. 9/27/69 - 6:30 P.M.	7. DATE AND TIME REPORTED 9/27/69 - 7:10 PM			8. LOCATION OF OCCURRENCE Shore Line - 1/2 Mi. North Lake Berryessa Park Headquarters	
9. VICTIM'S NAME LAST, FIRST, MIDDLE (FIRM IF BUSINESS) HARTNELL, BRYAN CALVIN				10. RESIDENCE ADDRESS Rt. 2, Box 252, Troutdale, Ore.	11. RES. PHONE
12. OCCUPATION Student	13. RACE - SEX W M	14. AGE 20	15. DOB 7/1/49	16. BUSINESS ADDRESS (SCHOOL IF JUVENILE) Newton Hall, P.U.C., Angwin	17. BUS. PHONE 965-2421
CODES FOR V-VICTIM W-WITNESS P-PARENT RP-REPORTING PARTY DC=DISCOVERED CRIME BOXES 20 AND 30				18. CHECK IF MORE NAMES IN CONTINUATION	
19. NAME - LAST, FIRST, MIDDLE SHEPARD, CECILIA ANN			20. CODE V	21. RESIDENCE ADDRESS 10733 Mead Lane, Loma Linda, Cal. 796-206	22. RESIDENCE PHONE
23. OCCUPATION Student	24. RACE - SEX W F	25. AGE 22	26. DOB 1/1/47	27. BUSINESS ADDRESS (SCHOOL IF JUVENILE)	28. BUSINESS PHONE
29. NAME - LAST, FIRST, MIDDLE			30. CODE	31. RESIDENCE ADDRESS	32. RESIDENCE PHONE
33. OCCUPATION	34. RACE - SEX	35. AGE	36. DOB	37. BUSINESS ADDRESS (SCHOOL IF JUVENILE)	38. BUSINESS PHONE

MODUS OPERANDI (SEE INSTRUCTIONS)

39. DESCRIBE CHARACTERISTICS OF PREMISES AND AREA WHERE OFFENSE OCCURRED

Victims were resting on blanket near shore line, remote area, Lake Berryessa.

40. DESCRIBE BRIEFLY HOW OFFENSE WAS COMMITTED

Suspect approached victims with hood over face and shoulders with auto gun, tie victim up and then stabbed multiple times.

41. DESCRIBE WEAPON, INSTRUMENT, EQUIPMENT, TRICK, DEVICE OR FORCE USED

Gun (automatic) - knife, thin blade, appeared home made.

42. MOTIVE - TYPE OF PROPERTY TAKEN OR OTHER REASON FOR OFFENSE

Homicide

43. ESTIMATED LOSS VALUE AND/OR EXTENT OF INJURIES - MINOR, MAJOR

Both victims - now near death

44. WHAT DID SUSPECT/S SAY - NOTE PECULIARITIES

I want your money and car keys (not taken)

45. VICTIM'S ACTIVITY JUST PRIOR TO AND/OR DURING OFFENSE

Laying on blanket - COZY

46. TRADEMARK - OTHER DISTINCTIVE ACTION OF SUSPECT/S

Suspect wore hood with cross hair symbol - even cross over circle

47. VEHICLE USED - LICENSE NO. - ID NO. - YEAR - MAKE - MODEL - COLORS (OTHER IDENTIFYING CHARACTERISTICS)

Vehicle unknown - tire casts made of believed suspect vehicle.

48. SUSPECT NO. 1 (LAST, FIRST, MIDDLE)

49. RACE - SEX W M	50. AGE 20-30	51. HT. 5-9'	52. WT. 200-250	53. HAIR brn	54. EYES brown	55. ID NO. OR DOB NO DOB	56. ARRESTED NO
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57. ADDRESS, CLOTHING AND OTHER IDENTIFYING MARKS OR CHARACTERISTICS **Auto gun in holster right hip.****Dark cloth hood, dark cloth jacket, dark pants, knife in holster left hip.**

58. SUSPECT NO. 2 (LAST, FIRST, MIDDLE)

59. RACE - SEX NO DATA	60. AGE NO DATA	61. HT. NO DATA	62. WT. NO DATA	63. HAIR NO DATA	64. EYES NO DATA	65. ID NO. OR DOB NO DATA	66. ARRESTED NO
----------------------------------	---------------------------	---------------------------	---------------------------	----------------------------	----------------------------	-------------------------------------	---------------------------

68. ADDRESS, CLOTHING AND OTHER IDENTIFYING MARKS OR CHARACTERISTICS

68. CHECK IF MORE NAMES IN CONTINUATION

WRITING OFFICERS

RECORDING OFFICER

TYPED BY

DATE AND TIME

ROUTED BY

9/29/69

RATHER YES COPIES TO: DETECTIVE CII

<input type="checkbox"/> NO	<input type="checkbox"/> JUVENILE	<input type="checkbox"/> PATROL
<input type="checkbox"/>	<input type="checkbox"/> DIST. ATTNY	<input type="checkbox"/> OTHER
<input type="checkbox"/> SO./PD	<input type="checkbox"/>	<input type="checkbox"/> OTHER

REVIEWED BY

DATE

b6
b7C

Dear Editor

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 originally sitting in
the front seat when I began
firing. When I fired the first
shot at his head, he leaped
backwards at the same time
thus spoiling my aim. He end
ed up on the back seat then
the floor in back thrashing out
very violently with his legs;
I shot him in the

01-D-99808059 11

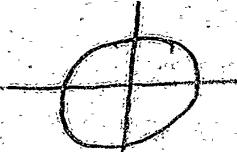
knee. I did not leave the scene
of the killing with squealing
tires or racing engine as described
in the Vallejo papers. I drove away
quite slowly so as not to draw
attention to my car.

The man who told the police
that my car was brown was a
negro about 40-45 rather shabbily
dressed. I was at this phone
booth having some fun with the
Vallejo cop when he was walking
by. When I hung the phone up
the damn X (O) thing began to
ring & that drew his attention
to me & my car.

Last Christmas

In that episode the police were
wondering as to 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 the silhouettes on the horizon.

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 dark spot in
the center of the circle of
light approx 3 to 6 in. across.
When taped to a gun barrel,
the bullet will strike exactly
in the center of the black
spot 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 coven-
age.



NO ADDRESS

F03 D-690808059 LL

S.F. Exam



San Fran. Calif.

Please Rush To

Editor

9-49911 Q4 LL

Dear Editor:

This is the murderer of the
teenager last Christmas
at Lake Hebron. The girl
was shot on the 4th of July near
the golf course in Verner.
To prove I killed them I
shall state some facts which
only I & the police know,
and it is

1. Brand name of ammu
Saper X
2. 10 shots were fired
3. the boy was on his back
with his feet to the girl
as the girl was on her side
5 shot from right
4th shot from left

1. girl was wearing patterned
slacks
2. The boy was also shot in
the knee.
3. Brand name of gun used
Over-

FBI
77-905-77667-6

Here is part of a cipher - the
other two parts of this cipher are
being mailed to the editors of
the Vallejo Times & SF Examiner.

I want you to print this
on the front page of your
newspaper. In this cipher is the
name of a man who is killing

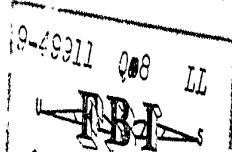
If you do not print this cipher
by the afternoon of Fri. 1st of
Aug 69, I will go on a kill ran-
ge on Fri. night. I will cause
people all weekend killing. You
cannot kill again then because
I will again cause
killings with a dozen people over
the weekend.



ЛІСТІВКА / АРЕНДА
ПРОДАЖА + СІДАДЛ
МІСЦІЯ + СУДОВА
ВІЗЕМУКЕ ПТУАДВІЛІ
НІФБХДФХАДД\АЛІРД
ДЕОБЕОЕОРХОЕД
ЗОЈТЛЮДАЛІ+ЯВРQW
ВЕХДВІОРЕНМЕЛУІК

9-2011 07 11
М.В.

Please Rush To
Editor



Vallejo Times



Vallejo Calif

Please Rush To

Editor



19-49911 Q8 LL

Dear Editor

I am the father of three boys
ages 10 & 12 brothers of Ladd Homan
and the girl lost at Lake Topeka
Please this I will state from facts
which only I take police true
Christmas

- 1 Board name of your Super X
- 2 Mr. Shad Field
- 3 Girl was last seen to go
to get bus 14 in the
foot to west side
of the street
- 4 Girl was wearing patterned
skirt like those in photo
- 5 Name of man
was broken

There is a express
bus there. One of that is
we been writing a few
times about the S. F. S.
I want you to print this

38166. on your ~~front page~~
~~front~~ At noon Aug 1 1693 it was
the last day I will go on
with you page. For my
friends who are not
of all these now and
that are in love from me on the
last time more until the
last time or the last time

TT CT 0 IT 667-6

TIMES HERALD

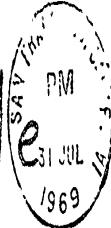
ΔΩΡ / Ζ / ΙΒΩΚ ΟΡΧΙΑΧΛΒ
WV+Ξ6ΥΓΟΔΗΡΩΚΙΘΥΞ
ΜΞΥΛΙΝΚΔΡΤΙΝΟΥΔΦΕ
SΦ/ΔΕΒΡΟΡΑΒΩΞΡΙΩΕ
ΚΑΛΜΖΙΟΡΑ\ΦΗΒΛΕΔΥ
Π+Θ6ΔΑΚΙΘΟΡΧΔΦΦSΦ
RNLTΙΥΕΓΟΔΡGBTQSΞΒ
L0/ΡΞΒΩΧΘΕΗΜΙΛRRΚ

Aug 1969

19-09977 0077 JL

— 1 —

S.F. Chronicle



San Fran. Calif

Please Rush to

Editor!

8-10311 9012 LL

Dear Editor

I am the killer of the 2 teenagers
last Saturday at Lake Herman on
the 4th last day of July. To prove
this I shall state some facts which
only I know about the place on
Christmas Eve up to the
celebration of New Years Day.

1 Gun of some kind was taken by
2 10 shots fired

3 Boy was on his back with foot to
east

4 Girl was lying on right side
foot to west

4th of July

1 girl was wearing patterned pants

2 boy was also shot in knee

3 gun was made by Western

Here is a cipher or that is part
of one. The other 2 parts are
being mailed to the Vallejo Times &
Soto Chronicle.

I want you to print this cipher
on the front page by
Friday afternoon Aug 1-69. If you

Do not print this off but I
will go on a kill room page
Fry night. This will last the
whole weekend, & will grace
around killing people who are
alone at night on hill. See you
on on hill. I kill a ~~few~~
people.

~~John~~

TT 14-4991 11-9

Calgary/E-8-1-74

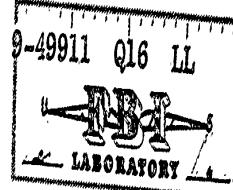
9-49911 315 11

CZK09I@W0IΔOLM9Δ
BPPR+€Λ0\NΦEΕHNF
ZD90VWΙΘ+LΘLΔR0E
IΔRΩTΥA\D/E/ΦXJQ
POMARUΔLΘNVEKHΔ
RIIJK0ΔALM1NAΘZΦP
ΦU9KAΔB V W I + V T L O P
ΛΠSRAEΔOΔEΔL R S L M

PL
69-1-8 5771416 CHICAGO

b6
b7c

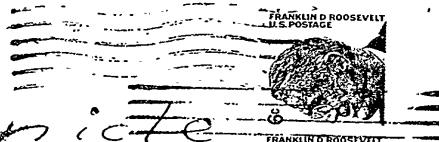
Sergeant [redacted]
Vallejo Police Department
Vallejo, California



A - G - S - I
B - V
C - E
D - F - Ø
E - Z - Q - W - T - Ø
F - J - Q
G - R -
H - M - Ø
I - P - U - X
J
K - I
L - □ - ■ - B
M
N - O - A - D - Ø
O - X - Z - T - Ø
P - π
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R - L - R - V
S - F - □ - K - A
T - H - Ø -
U - Y
V - J
W -
X - J
Y - □
Z

U
④ F - K - L - I
④ A - S - I
④ I - W
④ N - W
④ O - T
④ E - S
④ E - T
④ L - T

018



S.F. Chronicle

San Fran
Calif.

Please Rush To Editor

Please Rush To Editor

Q619

This is the Zodiac speaking.
I am the murderer of the
taxi driver over by
Washington St & Maple St last
night, to prove this here is
a blood stained piece of his
shirt. I am the same man
who did in the people in the
north bay area.

The S.F. Police could have caught
me last night if they had
searched the park property
instead of holding road races
with their motor cycles seeing who
could make the most noise. The
car drivers should have just
parked their cars & sat there
quietly waiting for me to come
out of cover.

School children make nice targets,
I think I shall wipe out
a school bus some morning. Just
shoot out the front tire & then
pick off the kiddies as they come
bounding out.



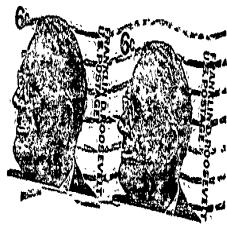
Q62D

Qc21

Please Rush
to
Editor



S.F. Chronicle



San Francisco Calif

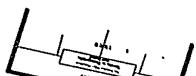
Please Rush to Editor

11

This is the Zodiac speaking up to the end of Oct I have killed 7 people. I have grown rather angry with the police for their telling lies about me. So I shall change the way the collecting of slaves. I shall no longer announce to anyone when I committ my murders, they shall look like routine robberies, killings of anger, & a few fake accidents, etc.

The police shall never catch me, because I have been too clever for them.

- 1 I look like the description passed out only when I do my thing, the rest of the time I look entirle different. I shall not tell you what my desice consists of when I kill
- 2 As of yet I have left no finger-prints behind me contrary to what the police say



Qc:

2/6

in my killings I wear trans-parent finger tip guards. All it is is 2 coats of airplane paint coated on my finger tips - quite unnoticeable & very effective.

3 my killing tools have been bought in through the mail under out-fits before the ban went into effect. except one & it was bought out of the state.

So as you see the police don't have much to work on. If you wonder why I was wiping the cab down I was leaving fake claws for the police to run all over town with, as one might say, I gave the cops some busy work to do so keep them happy. I enjoy needling the blue pigs. Hey blue pig I was in the park - you were using five trucks to mask the sound of your crazing proult cows. The dogs never come with in 2 blocks of me & they were to the west & there was only 2



QC:

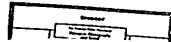
3/6

groups of parking about 10 min apart then the motor cycles went by about 150 ft away going from south to north west.

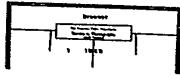
PS. 2 cops pulled a goat about 3 min after I left the cab. I was walking down the hill to the park when this cop car pulled up & one of the men called me over & asked if I saw any one acting suspicious or strange in the last 5 to 10 min & I said yes there was this man who was running by waving a gun & the cops peeled rubber & went around the corner as I directed them & I disappeared into the park about a half way never to be seen again.

Hey pig doesn't it rile you up to have you nose railed in your boobboos?

If you cops think I'm going to take on a bus the way I stated I was, you deserve to have holes in your heads.



QC2



Take one bag of ammonium nitrate fertilizer + 1 gal of stove oil + dump a few bags of gravel on top + then set the shit off + will positively ventilate anything that should be in the way of the blast.

The death machine is already made. I would have sent you pictures but you would be nasty enough to trace them back to developer & then to me, so I shall describe my masterpiece to you. The nice part of it is all the parts can be bought on the open market with no questions asked.

1 bat. pos clock - will run for approx 1 1/2 hr

1 photoelectric switch

2 copper- leaf springs

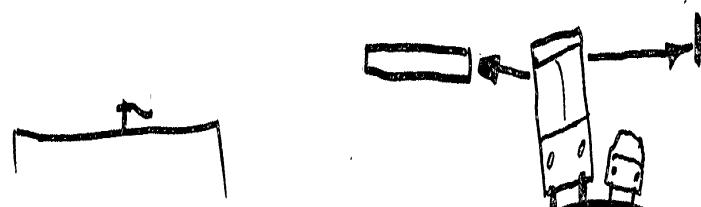
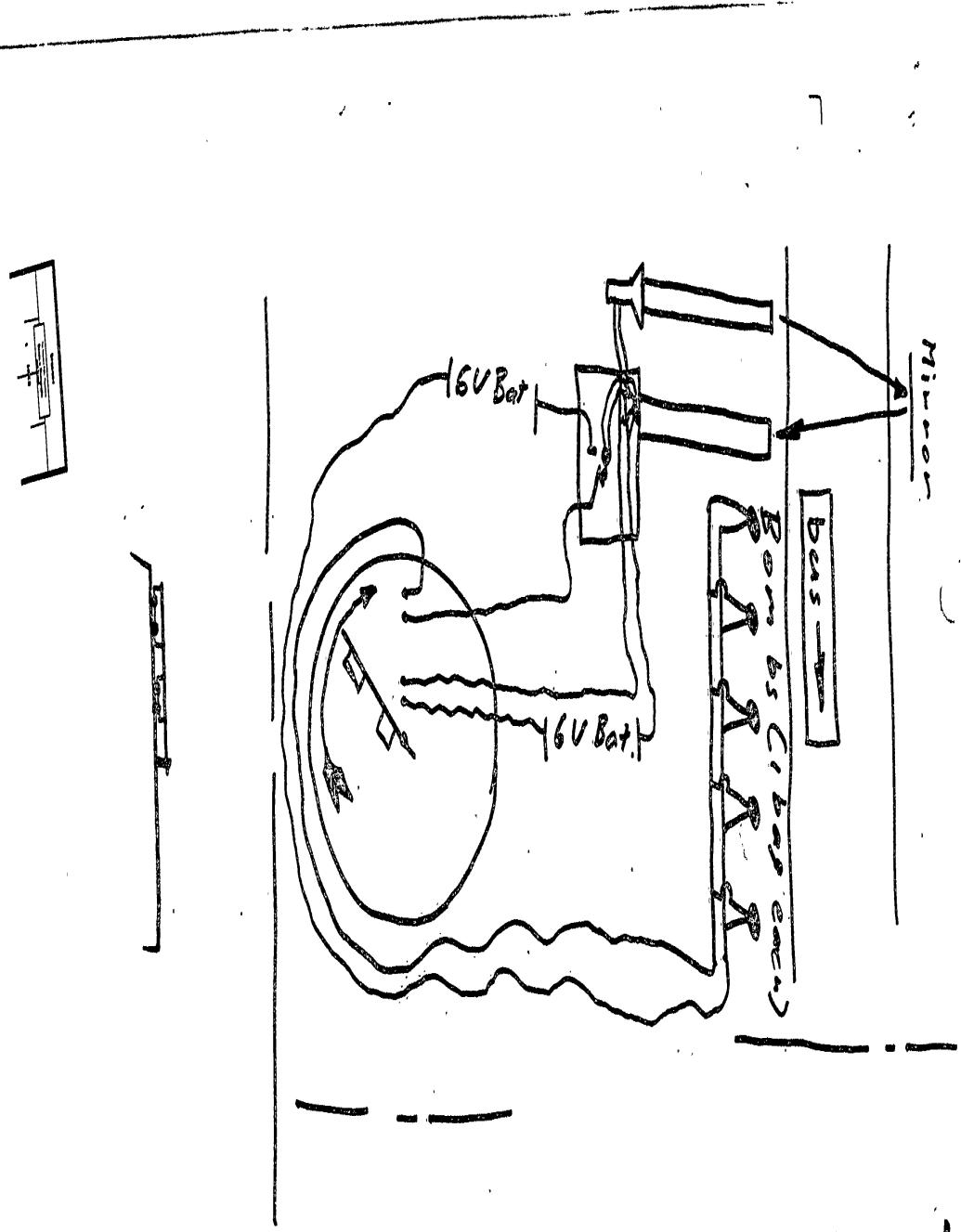
2 6V co- bat

1 flash light bulb & reflector

1 mirror

2 18" cardboard tubes block with shoe polish in side & ends

QC2



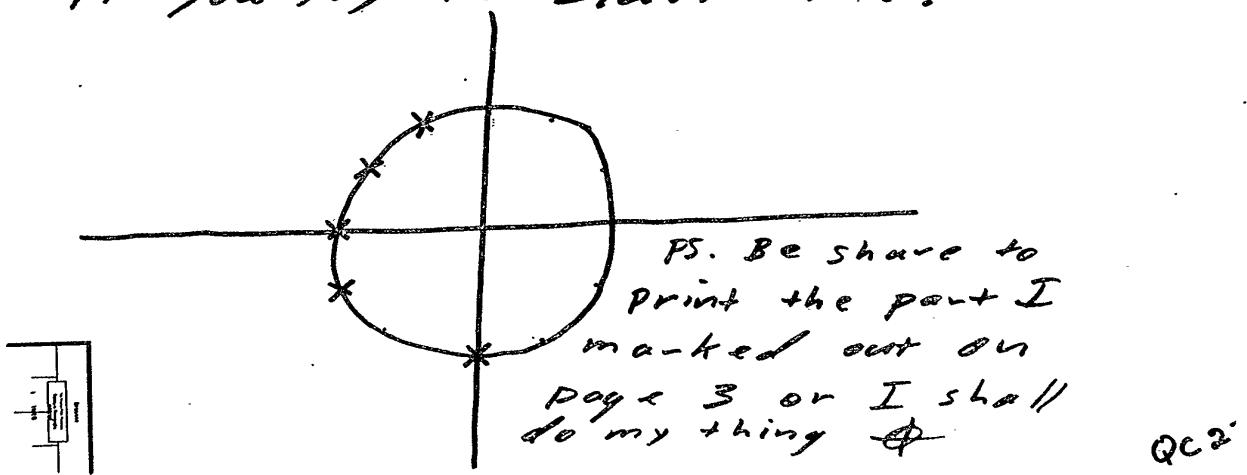
bus goes bang car
passes by ok. all

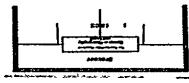
Qc:

9
%

the system checks out from one end to the other in my tests. What you do not know is whether the death machine is at the sight or whether it is being stored in my basement for future use. I think you do not have the man power to stop this one by continually searching the road sides looking for this thing. & it won't do to revoat & re schedule the basses because the bomb can be adapted to new conditions.

Have fun !! By the way it could be rather messy if you try to blast me.

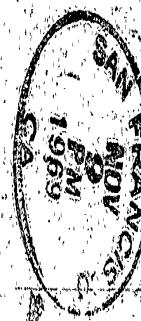




To prove that I am the
Zodiac, Ask the Valleso
cop about my electric gun
eight which I used to start
my collecting of slaves.

QC28

Please Rush to Editor



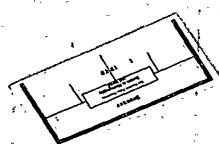
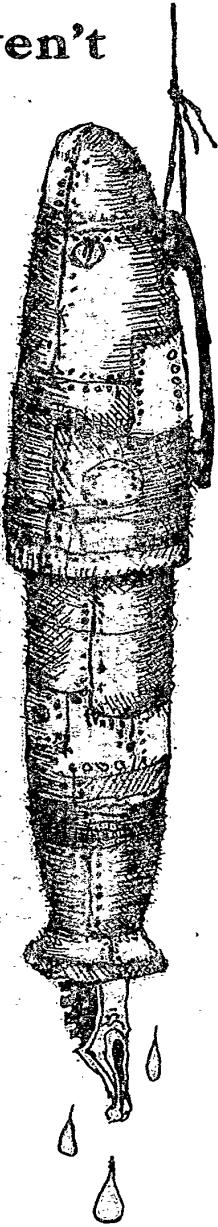
10/27 or 28/69

San Fran Calif

S.F.H.H.J.'S

Sorry I haven't
written,

but I just
washed
my pen...

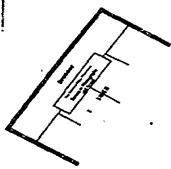
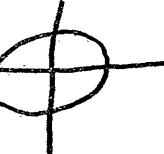


25 J 59 E

Pc 30

This is the Zodiac speaking
I thought you would need a
good laugh before you
hear the bad news and i
news for a lot the Can't
PS could you print do as
this new cipher thing
I got a faint page with
when I am lonely it!
so lonely I could
do my thing!!!!

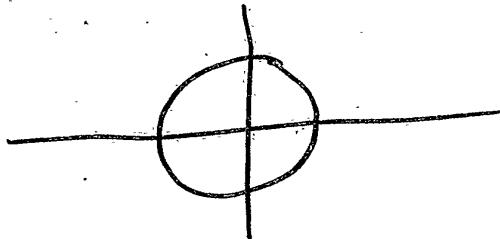
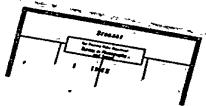
Des July Aug
Sept Oct = 7



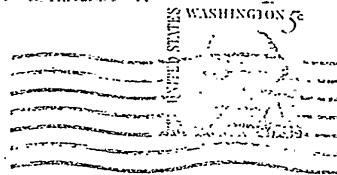
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Qc 31

H E R > 9 1 V P K I O L T G O D
N 9 + B φ □ O □ D W Y □ K H J F
B Y E C M + U N G W φ □ L □ K I
S 9 9 △ V A □ V @ 9 0 + + R K E /
□ △ M + * T D I F P X F > e L D
9 ▲ R ^ F L O - □ C N X G V + □ L
G O + K Q □ D C N Y φ + □ L
G E J F J □ O + □ N Y φ + □ L
M + B + Z R O F B C Y < A O O K
J U V + A J + O 9 A < F B X -
R / O J L R J I □ O T O M . + P B F
J R S X □ T + N I O F B C V O L +
G F N A □ E O O B . C V U N O -
B X O □ E □ B K O 9 A . M Q G O
I C T + L E O C < + F J W B I O L
+ O W C F W C P O S H T / O O P
I F K D W < △ T B □ Y O B □ - C
> M D H N 9 K S O N A I K E +



QC32

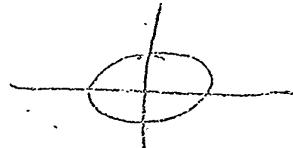


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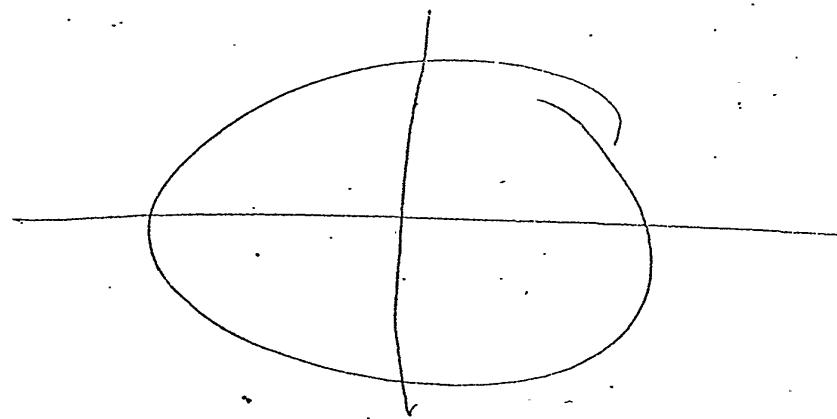
QC 34

This is the zodiac speaking

I just need help I will kill
again so expect it any time
now there will be a cop
than I will turn my
self in OK



H E R > < □ ○ φ → ○ L <
Δ + / \ w B I
+ + φ φ ♀
F U Z / ○ ○
▲ E O A I K I +



QC35



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PC 36

This is the Zodiac speaker

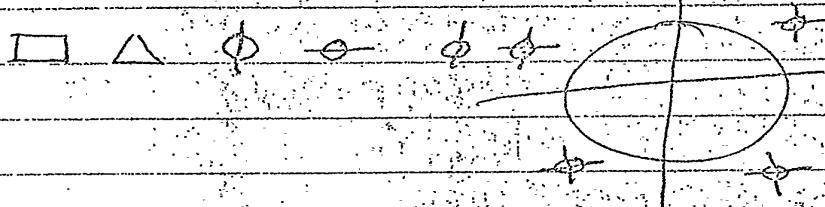
I just want to tell you

This state is in trouble

I will go for the Government
life so don't forget me

I will kill more people than
you cops can count so look
for more blood

You better print



You will not catch me

I will kill in

S.F. 3 times

S.J.

Vallejo 6

Napa 8

Fairfield 3 (Copy)

Sacramento 9 "

Oakland 8 "

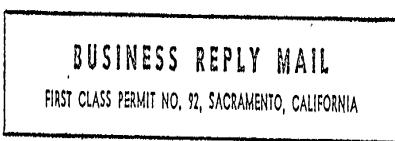
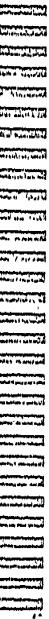
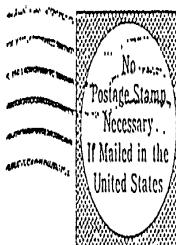
ha! ha! ha!

QC37

THE Bleeding

Knife of Zachary

QC38



THE SACRAMENTO  BEE

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SACRAMENTO,

CALIFORNIA 95804

~~IFIED DEPT.~~

17 Nov 79 12-12-69 1145 J. H. H.

QC 39

DAY-BY-DAY FORECAST FOR CANCER

Sat., Nov. 1. There may be much injustice toward you because others tend to blame you even though you have done nothing. It is difficult to win any success.

SUN., Nov. 2. A conference with a high official may not have the good results you hoped for. You may not be appreciated right now because Mercury is parallel Saturn.

Mon., Nov. 3. You may have to swallow some very distasteful talk going on around you. A policy of personal silence is the only wise one.

Tue., Nov. 4. Aspects show some improvement but rather slothful spirits. You can feel have gotten too severe a blow to your hoy sociability tonight.

Wed., Nov. 5. Physical exhaustion may be a symptom of some virus or other trouble. Don't take it easy and cancel all plans.

Nov. 6. Sit back and take 1/2 of the day in general. I'll try to see how fitting it more in line with your wishes.

Thur., Nov. 7. Someone may do something for you in an emergency. This is a cycle in re your trust in mankind.

Fri., Nov. 8. Be as gracious as you can to a neighbor who is pestering on your rights. Point out the facts and you will win cooperation.

SUN., Nov. 9. You have a chance to get far ahead of your schedule and then be able to take it easy. You may win approval for your talents now.

Mon., Nov. 10. Do not allow tensions to build up. If you feel them starting, change your pace. Walk around briefly to loosen up.

Tue., Nov. 11. You may receive high praise for your intelligence and determination. Someone who knows you well knows you can take pride in stride.

Wed., Nov. 12. A person who admires your intelligence may not trust your temperament. This may be a matter to think about deeply.

Thur., Nov. 13. You may plan some small enter-tainment and then find it vetoed by circumstances. Rather a frustrating cycle with Moon square Uranus.

Fri., Nov. 14. There is no use arguing with a younger person or trying to dissuade him or her from action. You'll need your calmest, most reasonable philosophy today.

Sat., Nov. 15. A change is in the air. You may be moving, you may have a new chance to travel, or you may be approached romantically by a very attractive person.

SUN., Nov. 16. A plan for the future may be halted by obstacles around which you can't see your way. Be patient, avoid any type of temperamental action.

Mon., Nov. 17. A big decision you make can bring needed peace to your life. On made, the path.

Tue., Nov. 18. Put in people and new step towarding for your hap-

Wed., Nov. 19. A wonderful day for throwing parties and enjoying your own plans for entertainment, welcoming guests with gracious

Thu., Nov. 20. You need perhaps a vacation which helps you firmly believe

Fri., Nov. 21. If you help others, you'll profit from one mental resources heads do produce surprising attain-

Sat., Nov. 22. Take time to get your things before plus action. All will go well if you make a success.

Mon., Nov. 23. You lack of assurance the morning. Ch your suffering.

Tue., Nov. 24. It is even to imply criticism of an important person. You could be asked to resign and fault with your superiors now.

Wed., Nov. 25. Be as kind to associates as possible, but don't hold back if anyone tries to work a malicious trick because of envy.

Thur., Nov. 26. Talk may be uppermost in your area and in your home. Guests you invite may take up all the time with talk and you don't approve of it all.

Fri., Nov. 27. There is a mysterious atmosphere of personal danger today. What a younger person tells you to be wary of may be a bad situation, indeed.

Sat., Nov. 28. Financial aspects are favored and you may make a large, unexpected sum because of a venturesome spirit that urges you ahead with money.

Sun., Nov. 29. You may be in a sadly reminiscent mood and there is a need to pull yourself out of it. Go shopping, call a friend, find some pleasure.

SUN., Nov. 30. Don't be too ready to argue for your own wishes. Someone else who helps you out may bring much benefit for your plans.

J.M.H.
11/2-69 1145
JUL-79 Q640

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MISS DIXON

QC41

DAY-BY-DAY FORECAST FOR LEO

Sat., Nov. 1. You are in a good seat for watching the show today and that's about all you accomplish. Excellent day for sheer fun and exhilarating talk.

SUN., Nov. 2. New conditions now can aggravate you somewhat. Be careful not to be so unreasonable that no one can reach you about the new situation.

Mon., Nov. 3. You may have visionary insight about the way things will go. Even if you're right, our thoughts to yourself.

Tue., Nov. 4. What seem to be what you with perhaps yo are not consider enough.

Wed., Nov. 5. Sons even tempted. The ev social affairs o book.

Thu., Nov. 6. A brilliant new plan may arise but whittle it down to size before getting to tackle it. Avoid excessive enthusiasm.

Fri., Nov. 7. A young friend may help out and cheer you about an important matter. Your creative abilities run high and are prof now.

Sat., Nov. 8. You can discover health and worry too much about health matters. A very good day for companionship, due to mixed lunar aspects.

Sun., Nov. 9. A good time to evaluate those you and pick out someone you feel is v help you work through problem.

Mon., Nov. 10. Good spirit and health and lots of fun may lie ahead. A new plan may be born up now. It really no

Tues., Nov. 11. Much support for all. It may be forthcoming. Don't let to spend your energies on a new task which is not exciting.

Wed., Nov. 12. Shopping and social life may be enjoyable and beneficial. Ur spirit high among glamorists.

Thu., Nov. 13. An exciting day, happy adventure, and friendship where mutual ambitions are open.

Fri., Nov. 14. A new arrival on the scene may provoke some jealousy from yourself or disguise a son of his.

Sat., Nov. 15. Keep very busy at your own affairs. Be particularly determined to keep out of the emotional life of a friend.

SUN., Nov. 16. You may have to revise plan about a journey you want to take. That is harmonious with a loved one's needs.

Mon., Nov. 17. Someone who has little faith in your abilities can cause you an expensive trouble. Be resigned to difficulties you face.

Tue., Nov. 18. You're in a difficult position. You will need to consider practical you can circumstan temper necessary

Wed., Nov. 19. Criticism you join in the criticism of your own wisdom and personal

Thu., Nov. 20. A grand change in a group of people. Good plans can be made and carried out. Look forward to a new day.

Fri., Nov. 21. If you see your activities. This is led by an urge and fine result.

Sat., Nov. 22. You can be very popular with the family and with many views. The more you talk the more you do.

SUN., Nov. 23. Be good in company with people who seek your companionship. Do not allow yourself a day off from responsibilities?

Mon., Nov. 24. A request by a friend in trouble should be met with a sense of great helpfulness which

Tues., Nov. 25. Good fortune in business and financial matters. You can be successful in your work.

Wed., Nov. 26. You are balanced, but not reasonable. Make a good schedule.

Thu., Nov. 27. You can do in the large. Plans of this eye

Fri., Nov. 28. Count your blessings. Commune with nature. Plans of this eye

Sat., Nov. 29. Communicate with your friends. Keep busy with your plan.

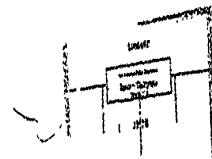
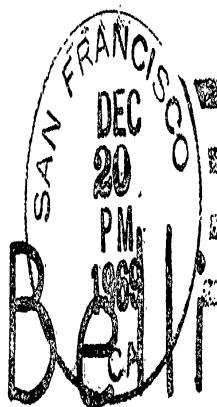
SUN., Nov. 30. Your personality wins the interest of several who are new to your area. A romantic dream may start to be fulfilled.

O C - 4 3

Mr. Melvin M. Belli

1228 Mtgy

San Fran Calif



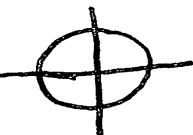
QC 43

Merry
New Year
+
Christmas



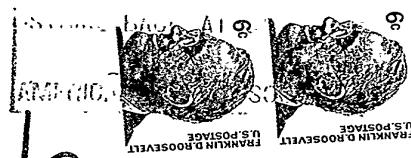
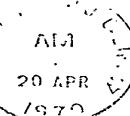
Dear M'lvin

This is the Zodiac speaking I wish you a happy Christmass. The one thing I ask of you is this, please help me. I cannot reach out for help because of this thing in me wont let me. I am finding it extreamly difficult to hold it in check I am afraid I will loose control again and take my nineth & possibly tenth victim. Please help me I am drowning. At the moment the children are safe from the bomb because it is so massive to dig in & the trigger mech requires much work to get it adjusted just right. But if I hold back too long from no nine I will loose ~~complet~~ all control of my self & set the bomb up. Please help me I can not remain in control for much longer.



Qc44

Editor
San Fran. Chronicle
San Francisco, Calif.



107! PE

Qc45

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

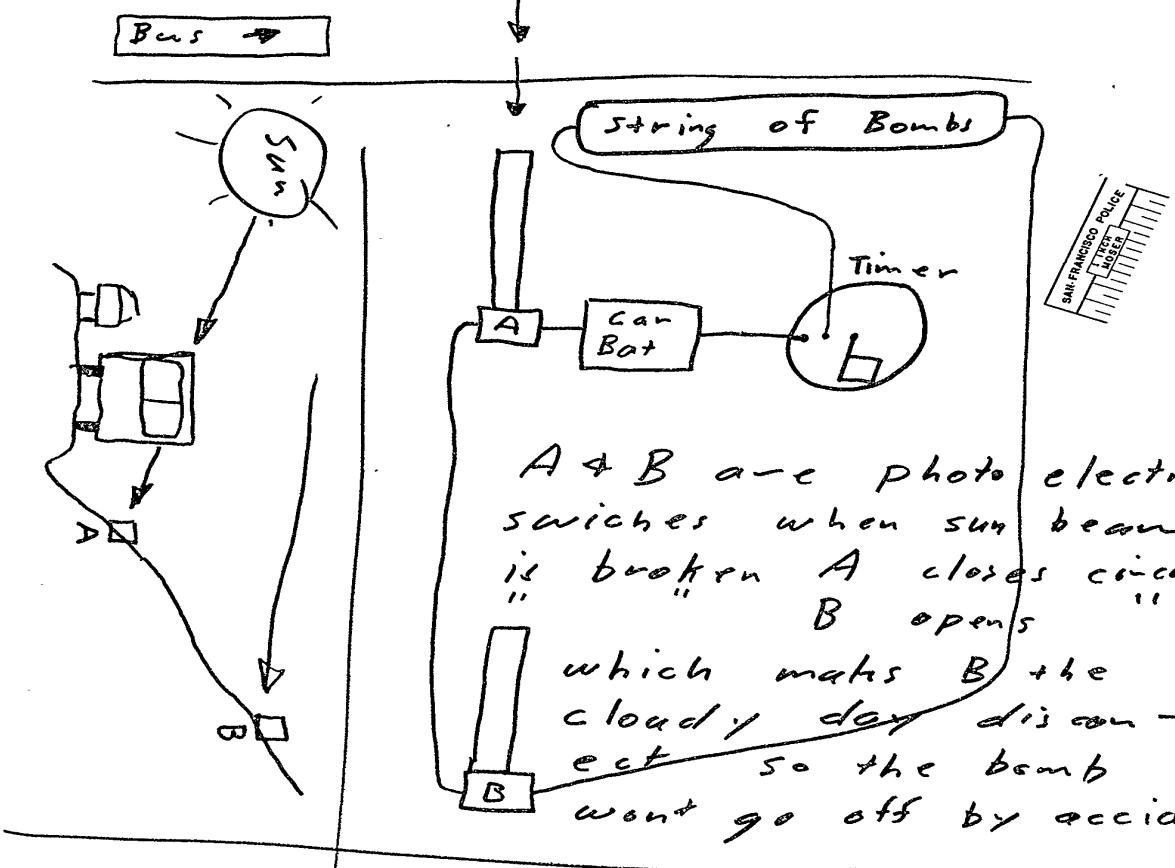


I am mildly nervous as to how
much money you have on my
head now. I hope you do not
think that I was the one
who wiped out that blue
meannie with a bomb at the
cop station. Even though I talked
about killing school children with
one. It just wouldn't do to
move in on someone else's territory.
But there is more glory in killing
a cop than a kid because a cop
can shoot back. I have killed
ten people so date. It would
have been a lot more except
that my bad bomb was a dud.
I was swamped out by the
rain we had a while back.

QC46

The new bomb is set up like this

Sun light = in early morning



PS I hope you have fun trying to figure out who I killed

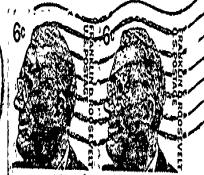
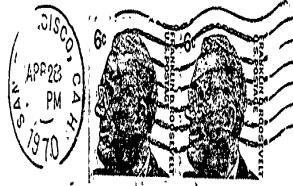
~~D~~=10

SFPD=0

Pc47

Editor

San Fran. Chronicle
San Fran. Calif.

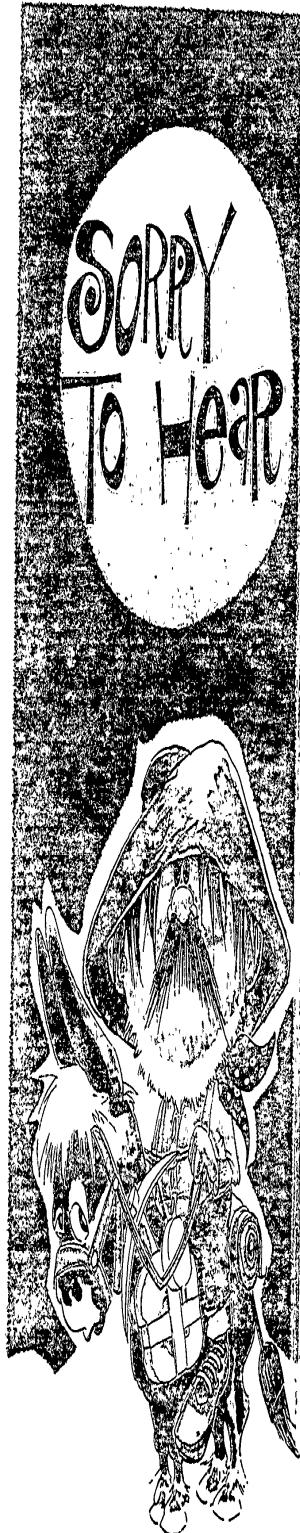


Qc 48



1041P3

Qc 48



Qc49

YOUR ASS IS A DRAGON

I hope you
enjoy your
selves
when I
have my
Blast.



P.S. on
back

MAX FUNKHOEFER
"LITTLE"
AUTOGRAF

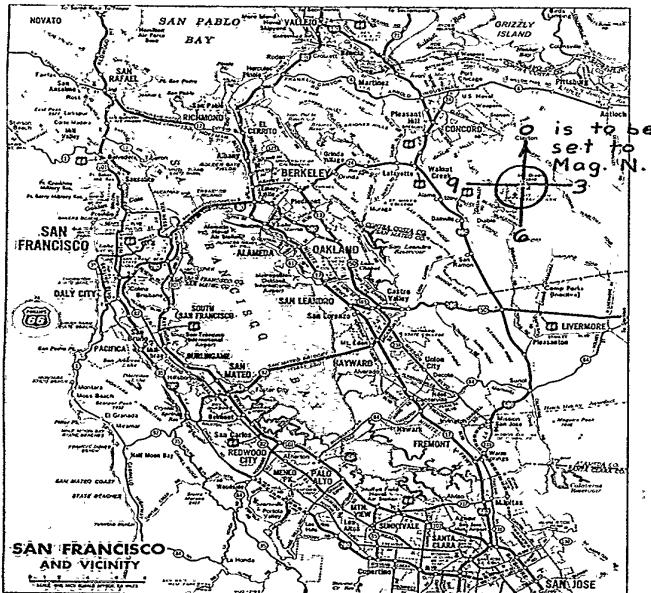
Qc49

If you dont want me to
have this blast you must
do two things. 1 Tell every
one about the bus bomb with
all the details. 2 I would like
to see some nice Zodiac buttons
wandering about town. Every
one else has these buttons like,
①, black power, melvin eats
bluber, etc. Well it would cheer
me up considerably if I saw
a lot of people wearing my
button. Please no nasty ones
like melvins



QCSO

S. F. Chronicle
San Fran.
Calif.



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 ♦ 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 punished them in another way. I shot a man sitting in a parked car with a .38.

~~12~~ -12 SFPD-O

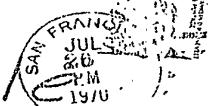
The Map coupled with this code will tell you where the bomb is set. You have until next Fall to dig it up. ♦

C Δ J I ■ O K L A M F □ Q O R T G
X O F D V T ■ H C E L ♦ P W A

QC51

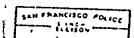
2
S.F. Chronicle
San Fran. Calif.

QCS2

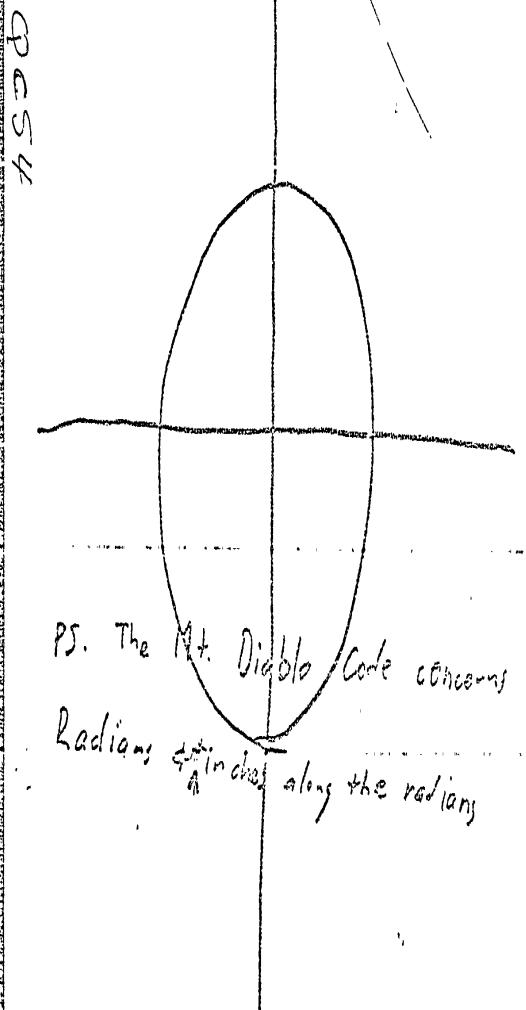


QCS3

S.F. Chronicle
San Fran. Calif



who, but the task of filling up the blanks I rather leave up to you. But it really doesn't matter whom you place upon the list, for none of them be missed, none of them be missed.



This is the Zodiac speaking

I am rather unhappy because you people will not wear some nice ♀ buttons. So I now have a little list, starting with the woman & her baby that I gave a rather interesting ride for a couple hours one evening a few months back that ended in my burning her car where I found them.



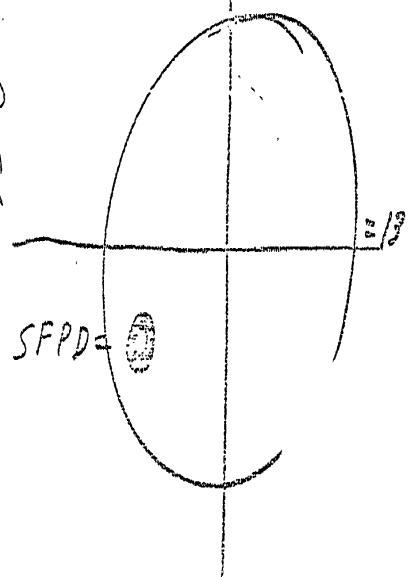
Oct 9.

As some day it may happen
that a victim must be found.
I've got a little list. I've
got a little list, of society
offenders who might well be
underground who would never
be missed who would never be
missed. There is the pest-
ulentual nunces who whrite
for autographs, all people who
have flabby hands and irritat-
ing laughs. All children who
are up in dates and implore
you with im platt. All people
who are shaking hands shake
hands like that. And all third
persons who with unspoilng
take those who insist. They'd
none of them be missed. They'd
none of them be missed. There's
the banjo seranader and
the others of his race and
the piano originast I got him
on the list. All people who
eat peppermint and phomphit

in your face, they would
never be missed. They would
never be missed. And the
Idiots who phraises with in-
thusastic tone of centuries
but this and every country but
his own. And the lady from
the provences who dress like
a guy who doesn't cry and
the singularly abnomily the
girl who never kissed. I don't
think she would be missed
Im share she wouldn't be
missed. And that nice impriest
that is rather rife the judic-
ial hummerest I've got him on
the list All funny fellows, com-
mic men and clowns of private
life. They'd none of them be
missed. They'd none of them be
missed. And uncompromising
kind such as wachamacallit,
thingmebob, and like wise, we'll
nevermind, and tut tut tut tut,
and whatshisname, and you know



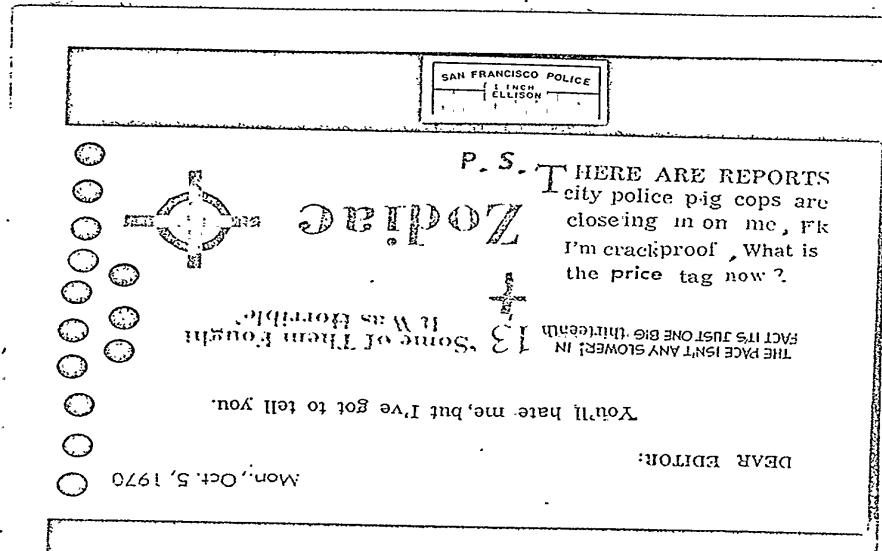
them up. Others I shall
stun them alive & lay them
on around screaming. And
all billiard players. I shall
have them play in a dark
ened dungeon cell with crooked
cues & Twisted Shoes.
Yes. I shall have great
fun inflicting the most
delicious of pain to my
Slaves



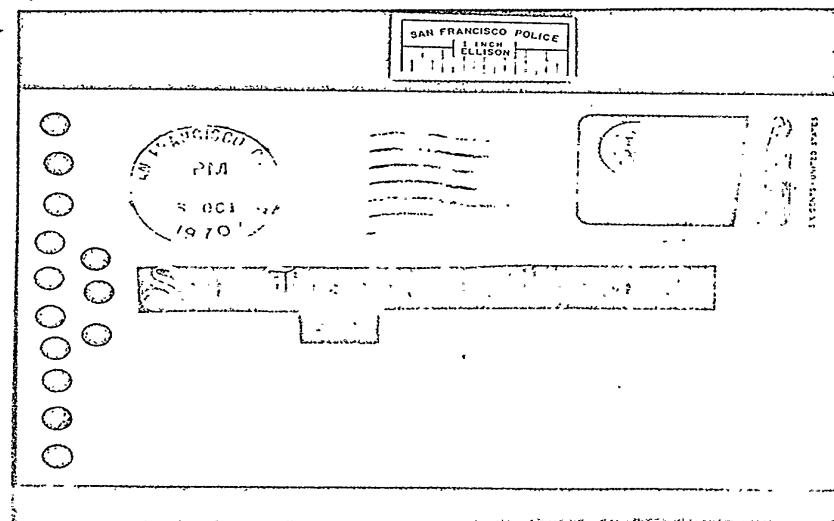
This is the Zodiac speaking

Being that you will not wear
some nice ♦ buttons, how about
wearing some nasty ♦ buttons.
Or any type of ♦ buttons that
you can think up. If you do
not wear any type of ♦
buttons I shall (oh top of every
thing else) torture all 13
of my slaves that I have
waiting for me in Paradise.
Some I shall tie over ant hills
and watch them scream & twitch
and squirm. Others shall have
pine splinters driven under their
nails & then burned. Others shall
be placed in cages & fed salt
beef until they are gorged then
I shall listen to their pleas
for water and I shall laugh at
them. Others will hang by
their thumbs & burn in the
sun till I will rub them down
with soap till the women

QC58



QC57



Mon., Oct. 12, 1970

Edward Adams,

The Zodiac is going to "change the
way" of committing murder.

"I shall announce which I shall soon
put my murders. The Adamses are Next

you taught me to. (M. S. M.)

ADAMS. **YOU ARE**
N.E.X.T.

Zodiac



Dr. Edw. C. Adams

102 Camino Don Miguel

Ojai, Ca.



9-19911 LT. QC59



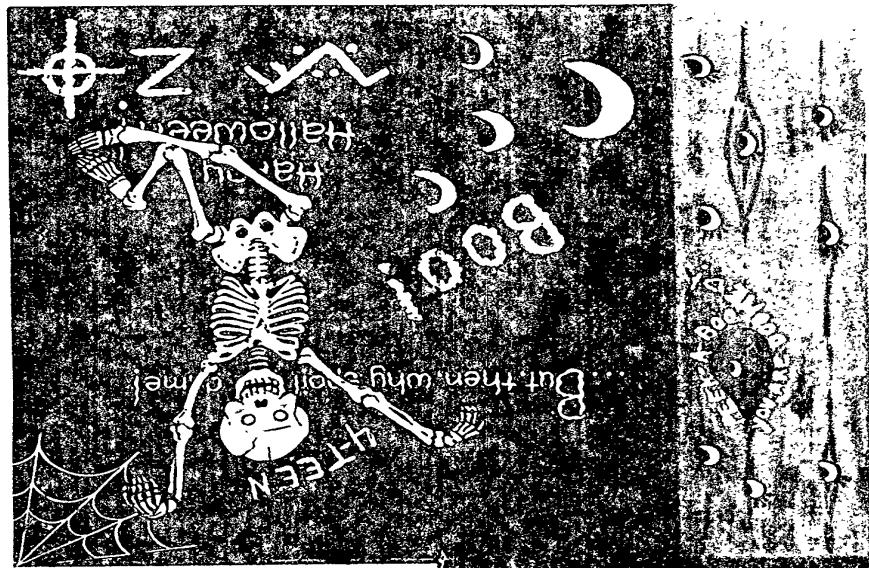
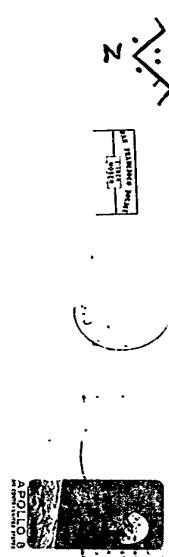
WED. OCT. 28, 1970

9-49911 LL Qc60



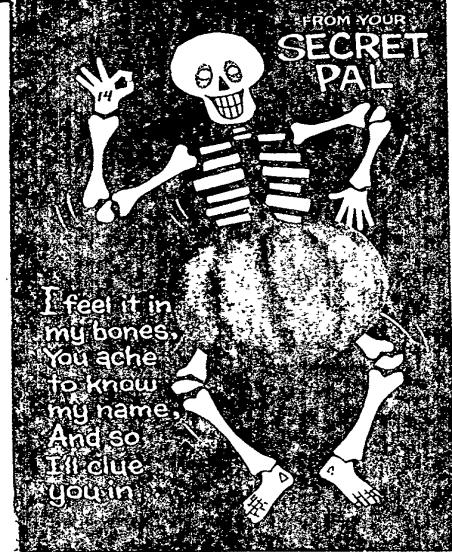
LABORATORY

*Paul Kerley
S.F. Chronicle
S.F. Mission*

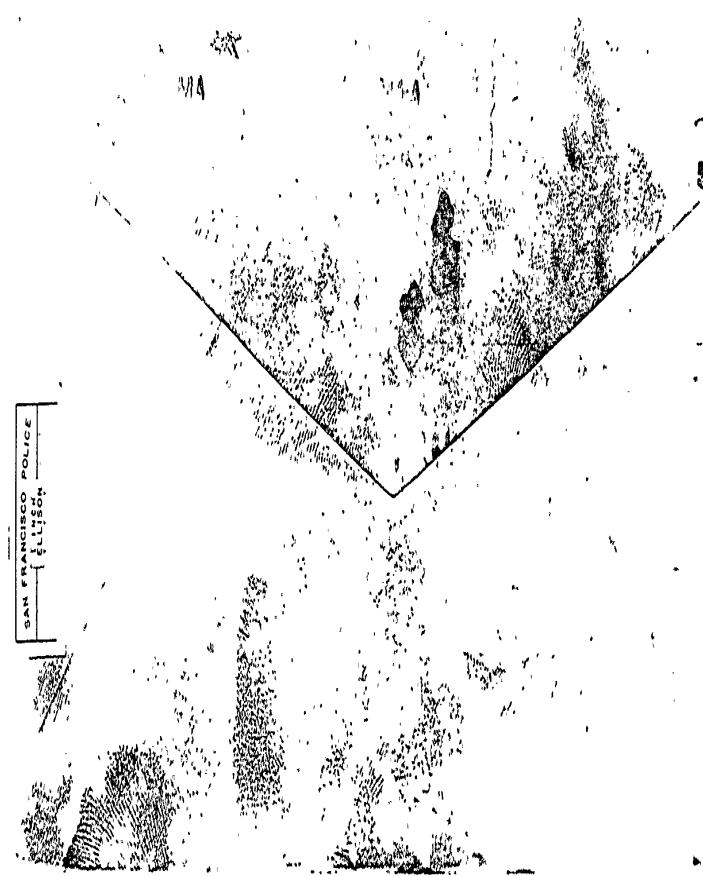


By GUN
PARADE
SLAVES
BY ROPE
BY FIRE
BY KNUCKLES

MED. OCT. 28, 1970

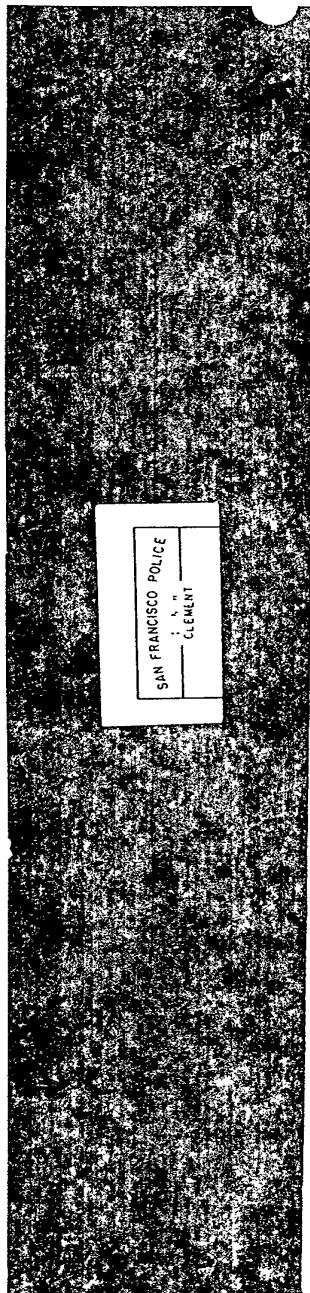


9-19911 LL 2000 CFC 61
FBI LABORATORY



SAN FRANCISCO POLICE
LABORATORY

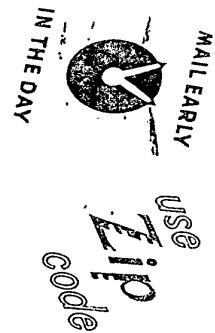
Pc 62



San Fran. Chronicle
Please Rush To Editor

Stamps in this book have been gummed with a matte finish adhesive which permits the elimination of the separation tissues.

This book contains 25—
8c stamps — four on this
pane and seven each on
three additional panes
Selling price \$2.00



QC 62

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 wave
and an echo arose from
the sacerd's grave
tit willo tit willo
tit willo

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

9

X
IRIN

ME - 37

S F P D - O

PC 63

Signed, yours truly:



He plunged him self into
the ~~ill~~ ^{SPAN} ~~FRANCISCO~~ ~~POLICE~~ ~~ILLUSION~~ wave

and an echo arose from
the ~~ill~~ ^{SPAN} ~~FRANCISCO~~ ~~POLICE~~ ~~ILLUSION~~ grave

tit will tit will

tit will

D.S. if I do not see this
note in your paper, I
will do something nasty,

M
PC 62

Dear Mr. Editor,

Did you know that the initials SLA (Symbionese Liberation Army) spell "la", an old Norse word meaning "kill".

a friend

9-49911 LL Qc64



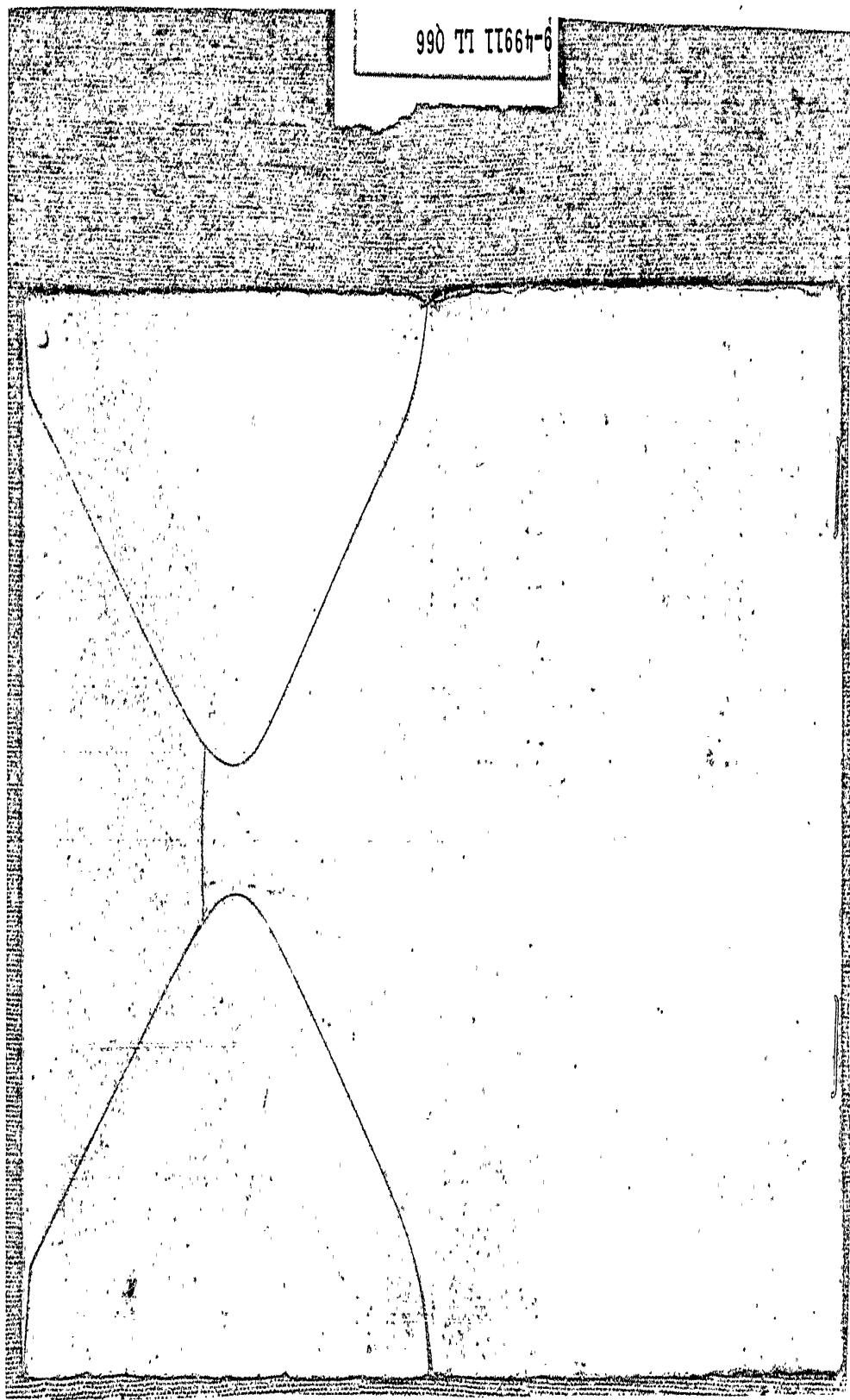
Editor

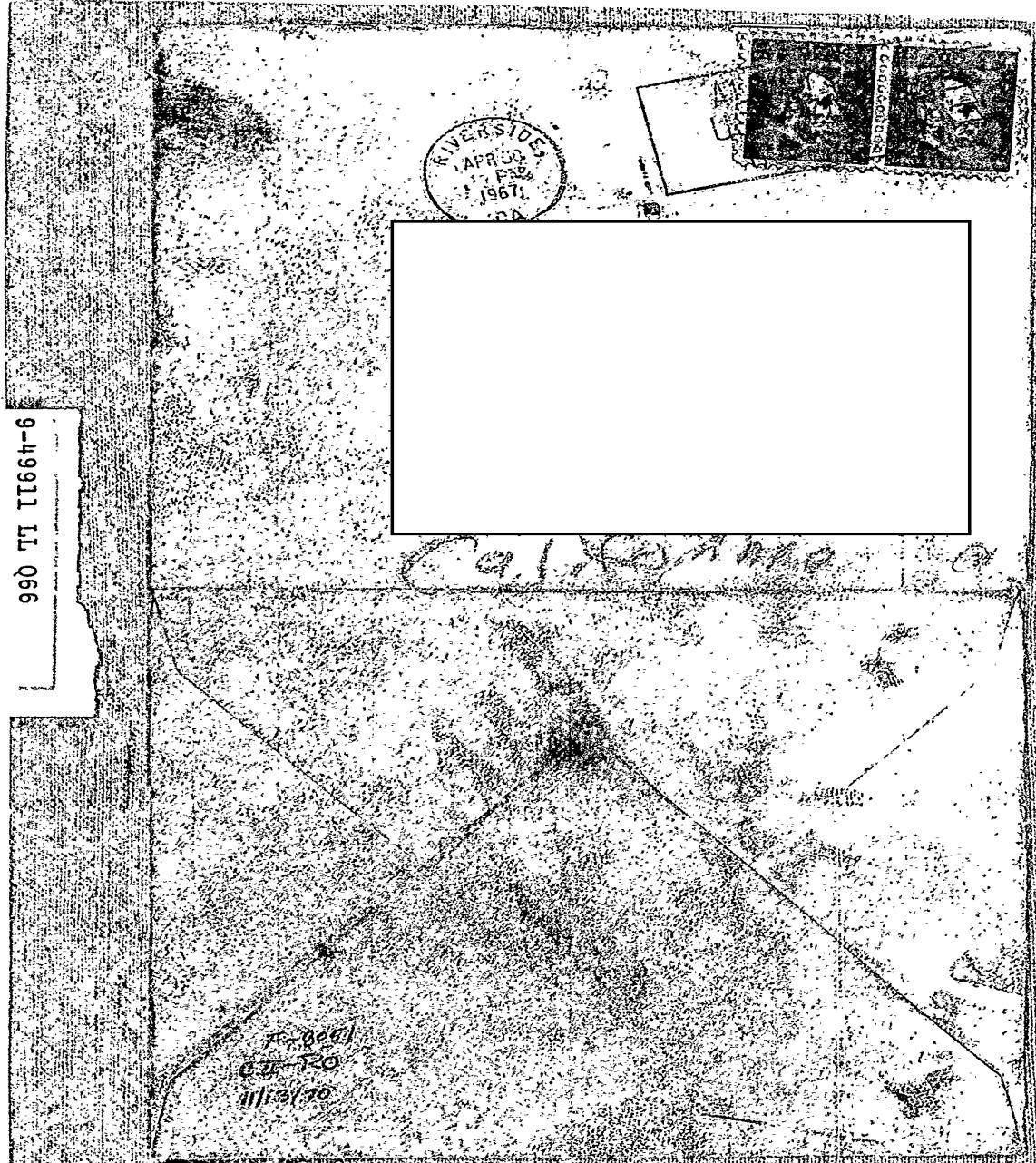
San Francisco Chronicle

San Francisco, California

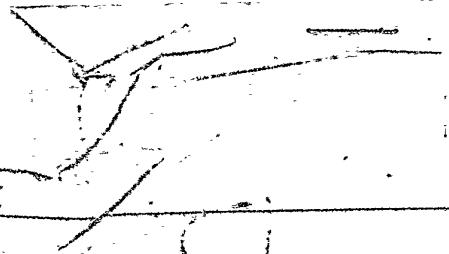
9-49911 LL Qc64





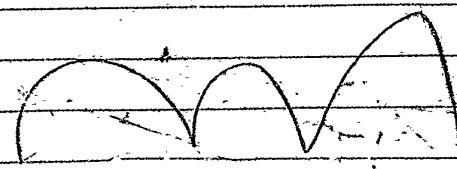


b6
b7c


die Mold 16

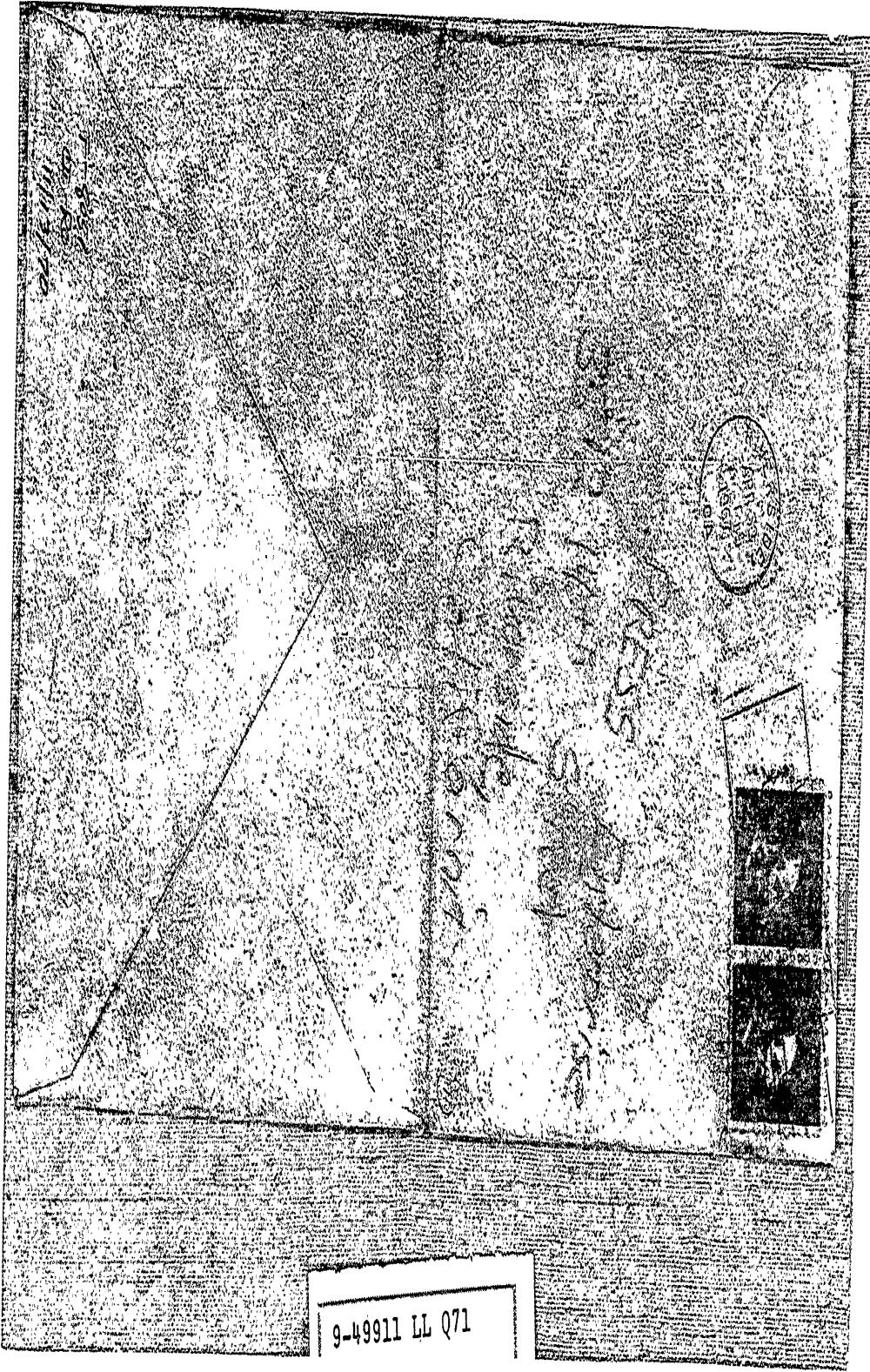
Die Gruppe

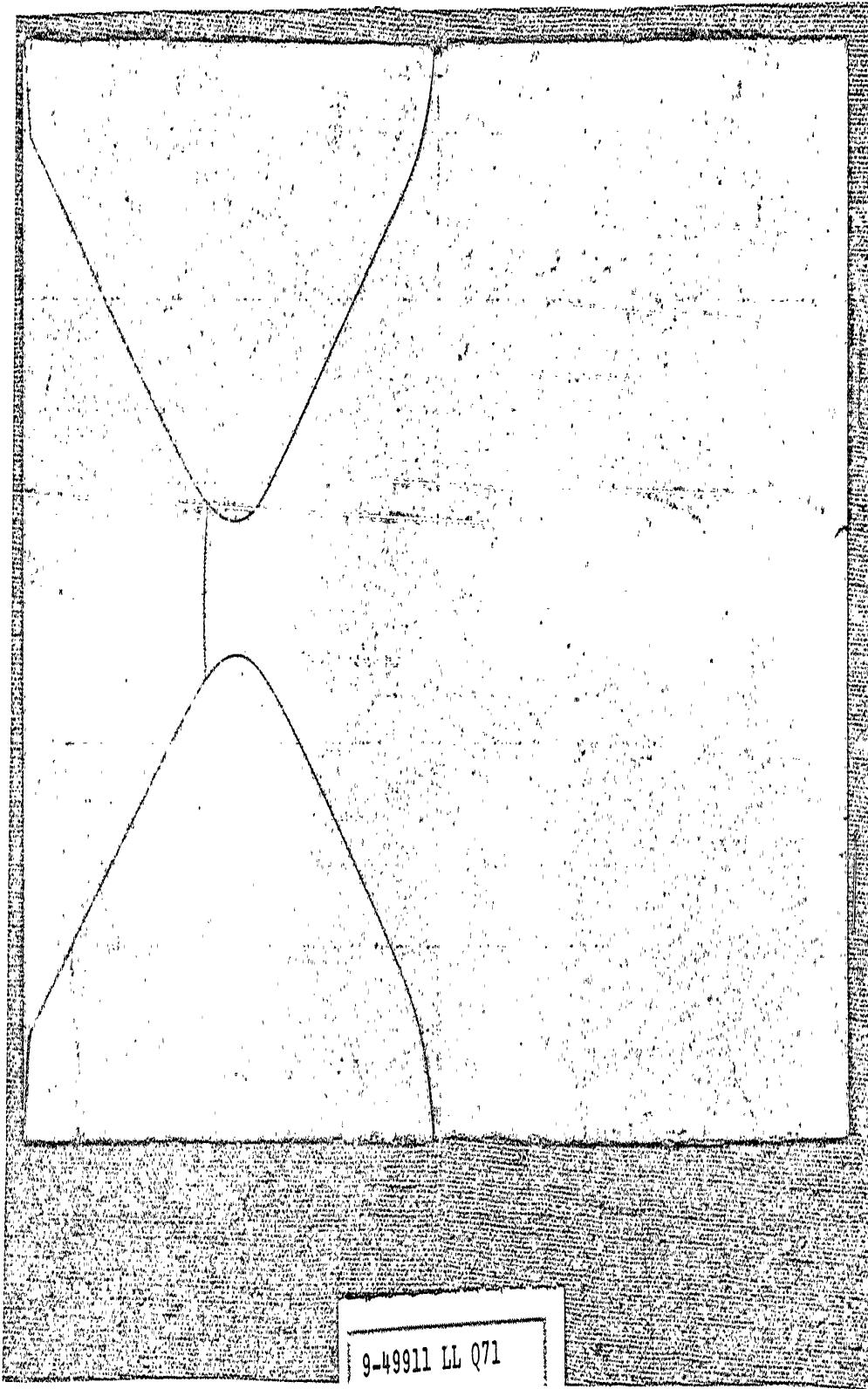
(1) Be



ORe

F 4061
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11/





BATES HAD

KOPIE

THERE WILL

BE MORE

3

8



DRX 9-49911 LL Q73

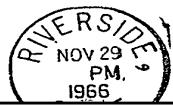
Received in
5.00 for
Collection
E 485-20
the Shrike
18m

MINIATURES

B&W 9-49911 LL Q73

E485-22
12-244
C4 PK

9-49911 11 274



ALWAYS
USE ZIP
CODE

b6
b7C

9-49911 LL A74

Sick of living now, willing to die

cut

Clean

iffed

Clean

Blood sputting

dripping

All over her new
dress

Chew off

it was fed

anyway drowning into an
uncertain death

she took off

the time

last night I find her

dead



Editor
San Francisco Chronicle
in Francisco, California

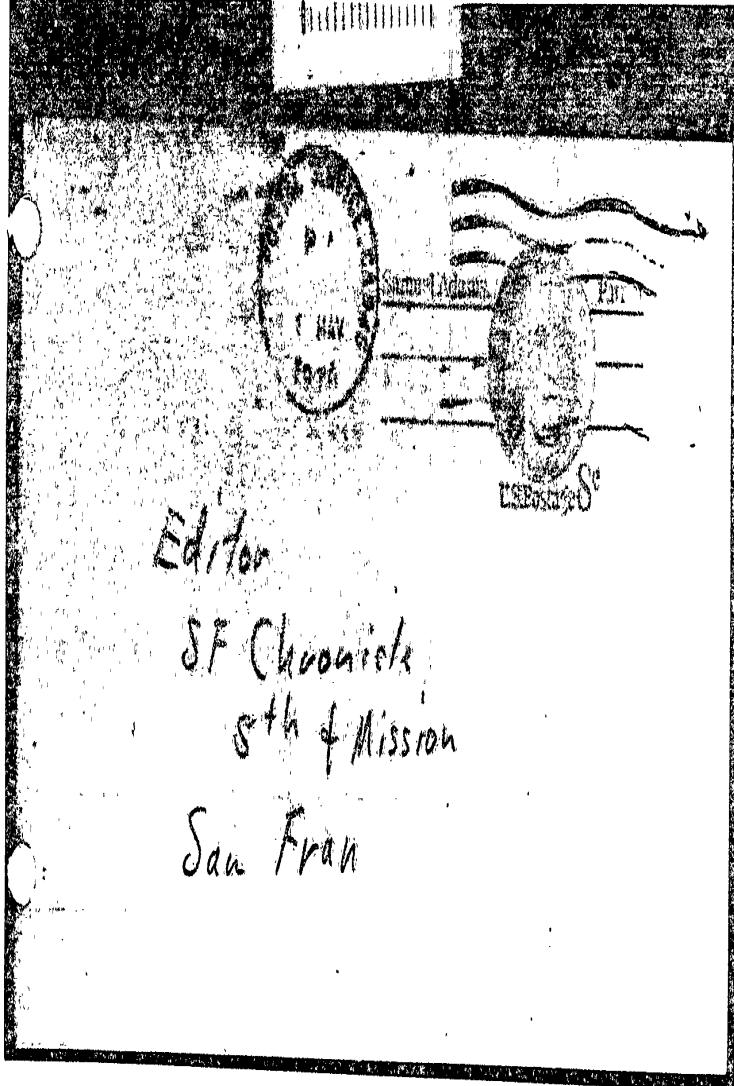
3 4 COASTAL 5 6 MAN 7 MADE IN ITALY 8 9

9-49911 LL Qc77

Editor —

P.t Marco back in the hell-hole
from whence it came — he has
a serious psychological disorder —
always needs to feel superior. I
suggest you refer him to a shrink.
Meanwhile, cancel the Count Marco
column. Since the Count can
write anonymously, so can I —

the Red Phantom
(red with rage)



Edition
SF Chronicle
8th & Mission
San Fran

9-499411-11-9002-769

Sir - I would like to
express my ~~constant~~
consternation concerning
your poor taste & lack of
sympathy for the public, as
evidenced by your drawing
of the ads for the movie
"Badlands", featuring the
blurb - "In 1959 most people
were killing time, Kit & Holly
were killing people." In
light of recent events, this
kind of murder-glorification
can only be deplorable at
best (not that glorification of
violence was ever justifiable)
Why don't you show some
concern for public sensibilities
about this ad?

A citizen

9-49911 LL Qc80

Q85

80519067 D LL 486

4-00000-300

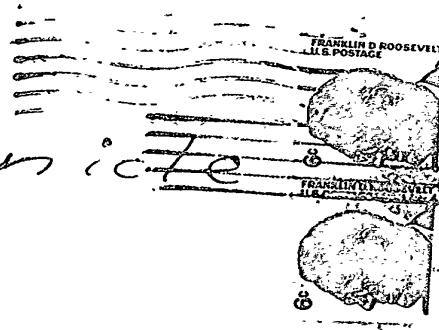
495
80519067 D LL 006

This is the Zodiac speaking.
I am the murderer of the
taxi driver over by
Washington St & Maple St last
night, to prove this here is
a blood stained piece of his
shirt. I am the same man
who did in the people in the
north bay area.

The S.F. Police could have caught
me last night if they had
searched the park property
instead of holding road races
with their motor cycles seeing who
could make the most noise. The
car drivers should have just
parked their cars & sat there
quietly waiting for me to come
out of cover.

School children make nice targets,
I think I shall wipe out
a school bus some morning. Just
shoot out the front tire & then
pick off the kiddies as they come
bounding out. 

6085
80519067 D LL 1988



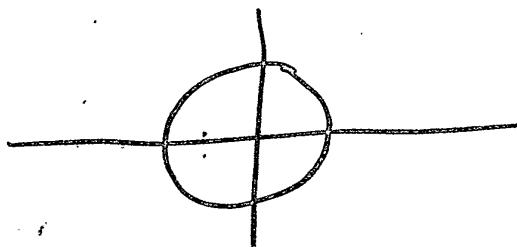
S.F. Chronicle
San Fran.
Calif.

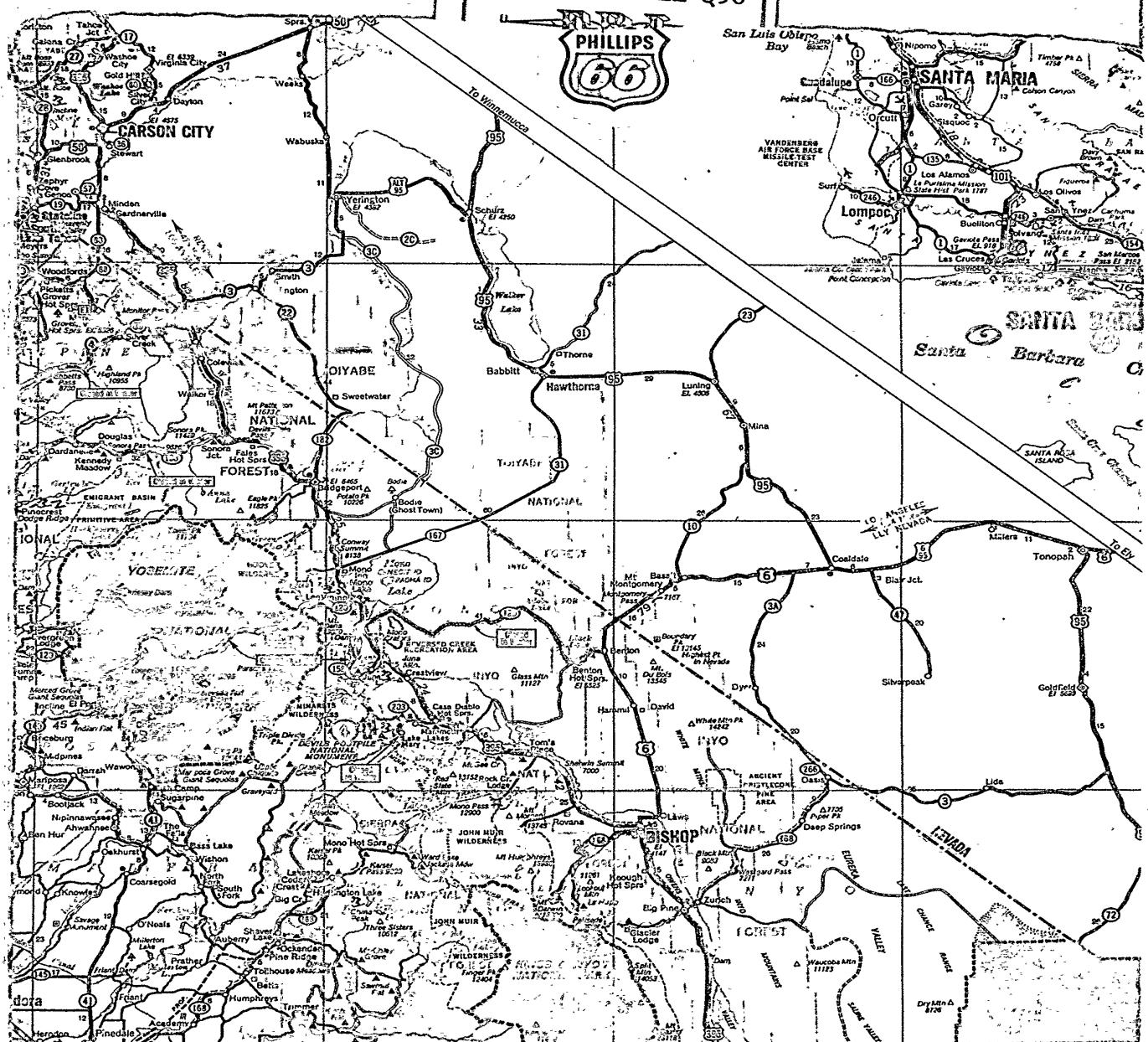
Please Rush To Editor

Please Rush To Editor

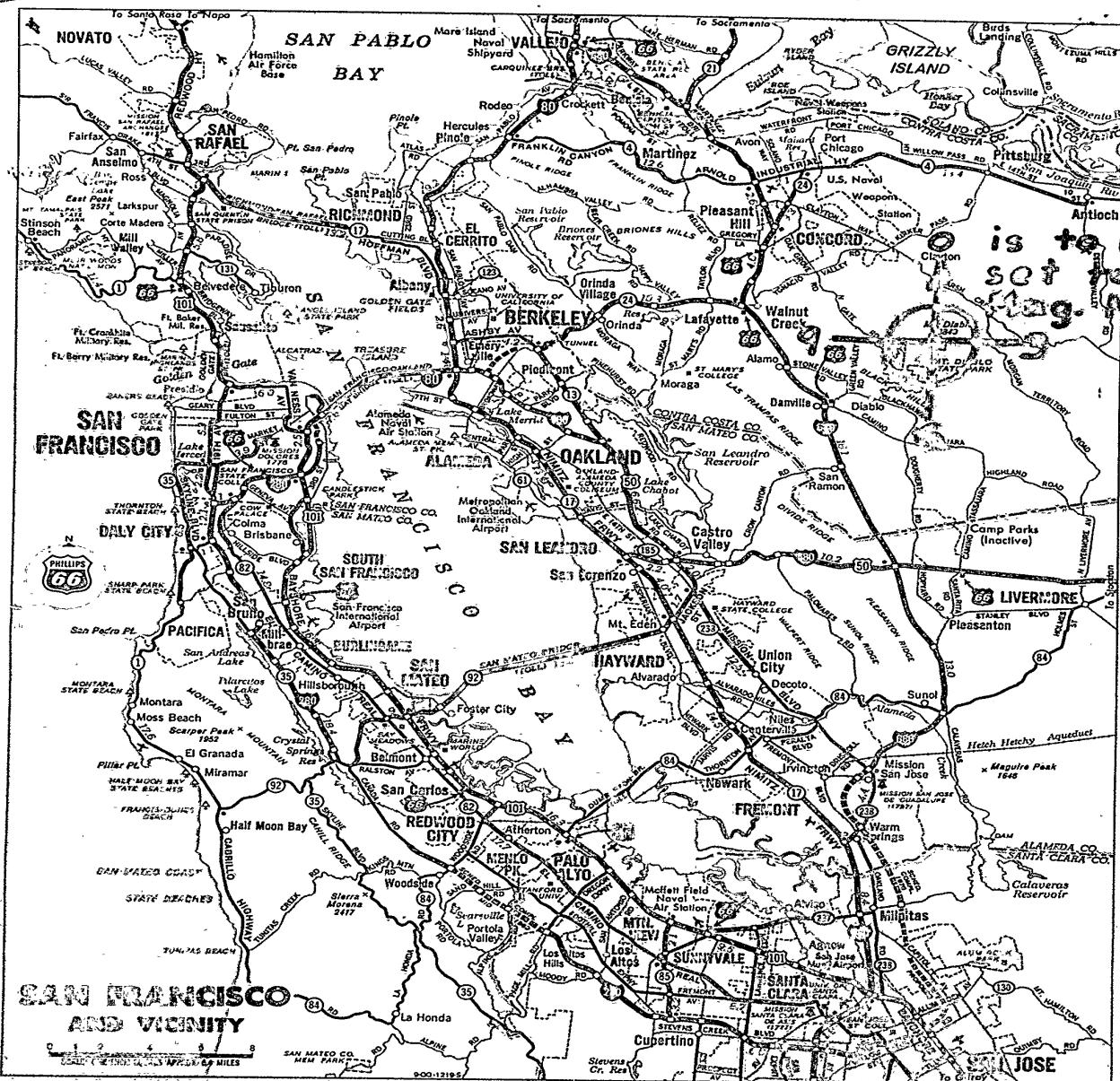
6286
80519067 D LL 085

H E R > 9 L V P K I O L T 6 O D
N 9 + B φ □ O □ D W Y . < □ K F φ
B Y □ C M + U Z 6 W φ - L □ H J
S 9 9 □ A □ L □ T □ V 0 9 O + + R K θ
□ □ A M + □ T T Q I O F P + P O K /
R □ A R A F L O - □ C F > O D φ
□ □ C + K φ □ I O N X 6 V . □ L □
φ G O J 7 T □ O + □ N Y □ + □ L □
D X M + B + Z R O F B C K A O O C K
- L U V + A J + O 9 □ < F D Y -
+ R / O L E I D Y B 9 8 T M K O
O < J R J I □ O T O M . + P B F
φ O □ A S Y □ + N I O F B C C
L G F N A F O O B O A C . T O A C
B X O □ E O □ C E > V U N O -
I C . O * B K φ O 9 A . 7 M O 6 O
R C T + L O O C < + F L W B I O L
+ + O W C φ W C P O S H T / φ φ q
I F K D W < A B □ Y O B - C
≥ M D H N 9 S K 6 N H M > O □ A I K I +





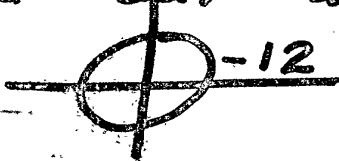
80519067 D LL Q90



80519067 D LL Q90

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 ♦ buttons. I promised to punish them if they did not comply, by annihilating a full School Bass. But now school is out for the summer, so I punished them in another way. I shot a man sitting in a parked car with a .38.



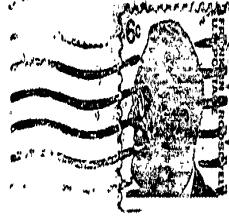
-12

SFPD-O

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

C A J I B O X + A M T A R O R T O
X O F D V 3 B H C E L ♦ P W A

S.F. Chronicle

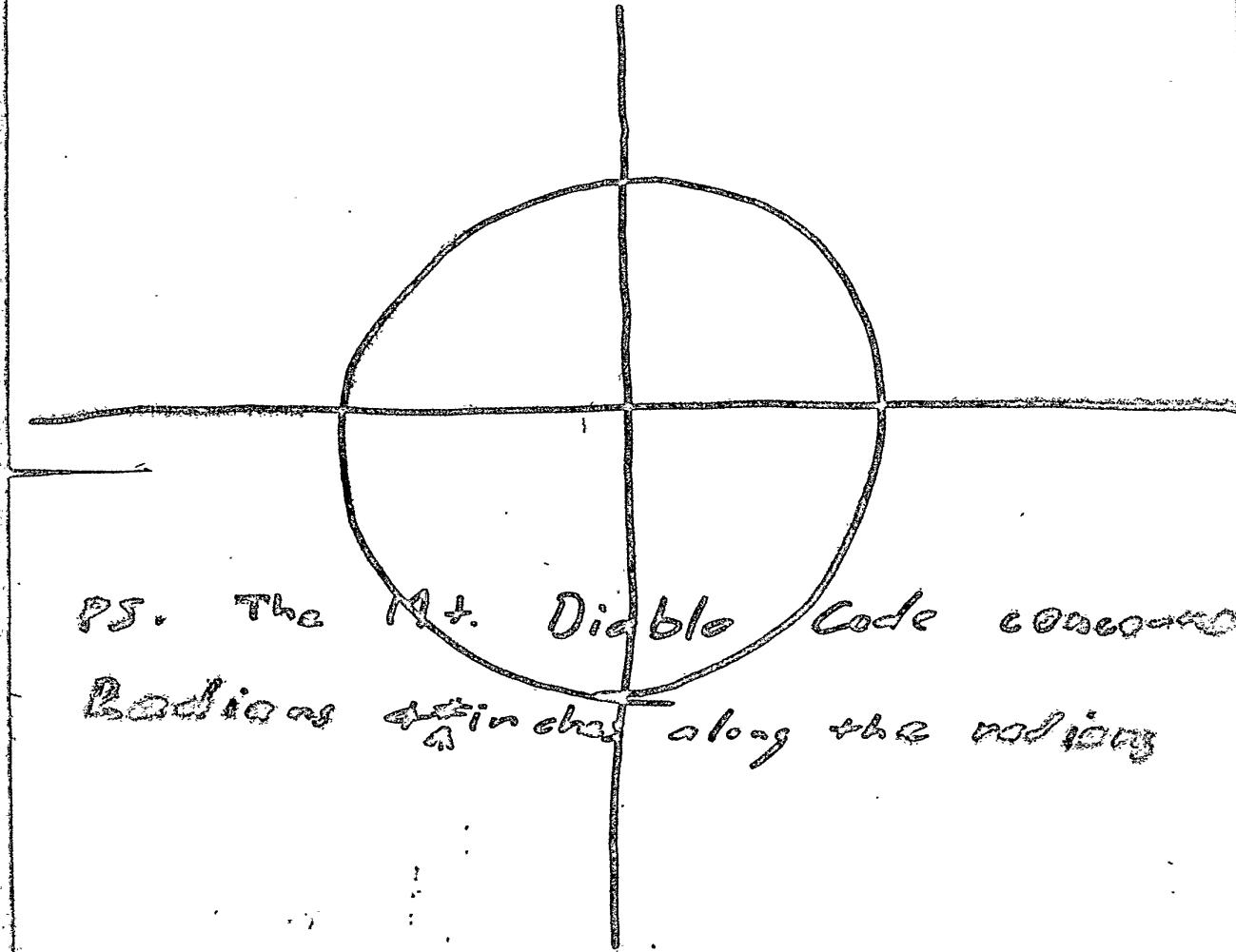


San Fran. Calif



80519067 D LL Q92

who, but the task of filling up the blanks I rather leave up to you. But it really doesn't matter whom you place upon the list, for none of them be missed, none of them be missed.



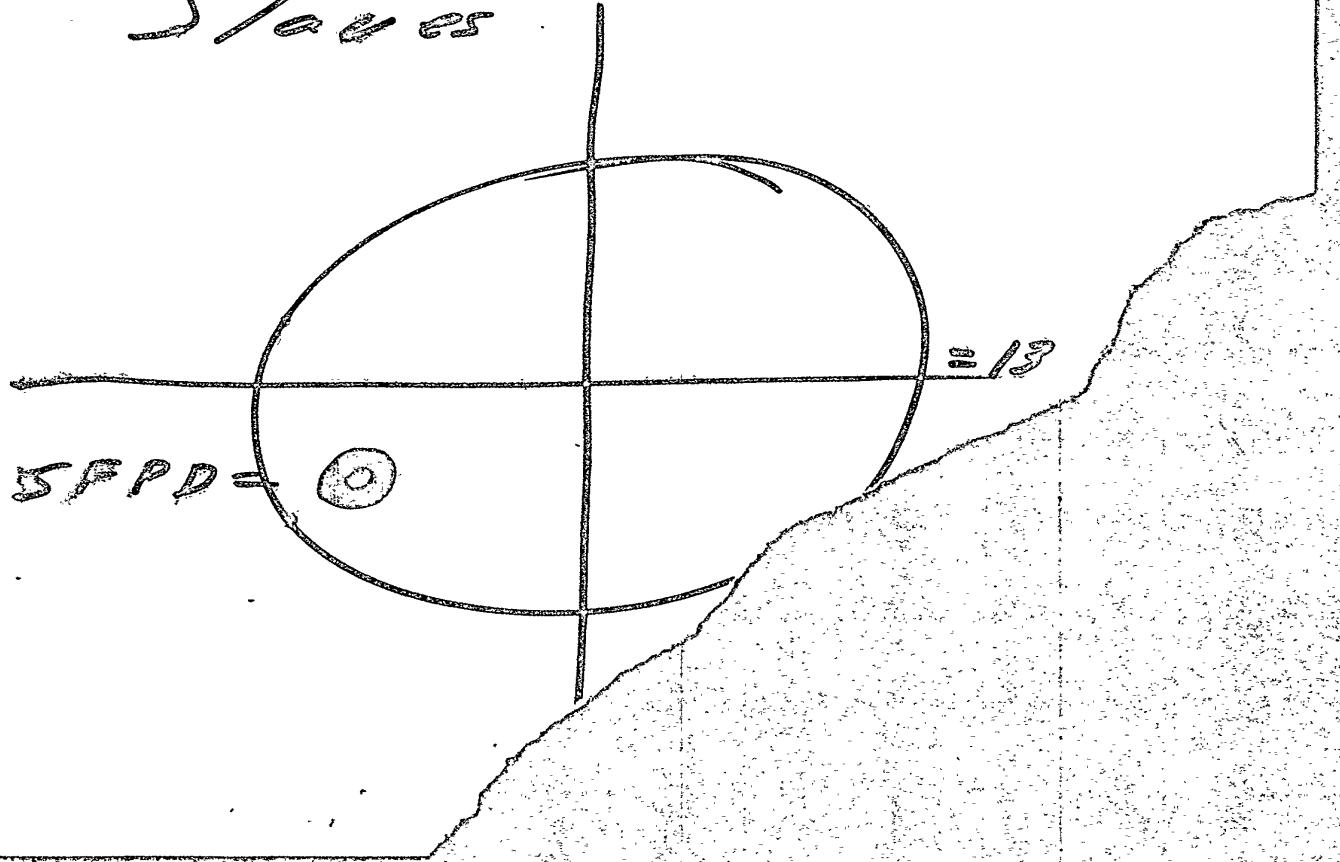
2

in your face, they would never be missed. They would never be missed. And the Idiot who phrases with in-thusastic tone of centuries beat this and every country but his own. And the lady from the provences who dress like a guy who doesn't cry and the singularly abnomally the girl who never kissed. I don't think she would be missed. I'm sure she wouldn't be missed. And that nice impudent that is rather rife the judic-ial hammerest I've got him on the list All funny fellows, comic men and clowns of private life. They'd none of them be missed. They'd none of them be missed. And an uncompromising kind such as wachamacallit, thing one bob, and like wise, well-never mind, and fast fast fast fast, and whatshisname, and you know

As some day it may happen
that a victim must be found.
I've got a little list. I've
got a little list, of society
offenders who might well be
underground who would never
be missed who would never be
missed. There is the pes-
tulentual nunces who write
for autographs, all people who
have flabby hands and irritat-
ing laughs. All children who
are up in dates and implore
you with importunity. All people
who are shaking hands shake
hands like that. And all third
persons who with unspoiling
take those who insist. They'd
none of them be missed. They'd
none of them be missed. There's
the banjo seranader and
the others of his race and
the piano orginast I got him
on the list. All people who
eat peppermint and phosphat

80519067 D LL Q92

other as. Others I shall
stab them alive & let them
run around screaming. And
all billiard players I shall
have them play in a dark
and dangerous all with crooked
cues & Twisted Shoes.
Yes I shall have great
fun inlicting the most
delicious of pain to my
players.



This is the Zodiac speaking

Being that you will not wear some nice ♀ buttons, how about wearing some nasty ♀ buttons. Or any type of ♀ buttons that you can think up. If you do not wear any type of ♀ buttons I shall (on top of every thing else) torture all 13 of my slaves that I have waiting for me in Paradise. Some I shall tie over and hills and watch them scream + twitch and squirm. Others shall have pine splinters driven under their nails + then burned. Others shall be placed in cages + fed salt beef untill they are gorged then I shall listen to their please for water and I shall laugh at them. Others will hang by their thumbs + back in the sun then I will rub them down with deep heat to warm

80519067 D LL Q93

N



Paul Avery
S.F. Chronicle
5th - Mission
S.F.

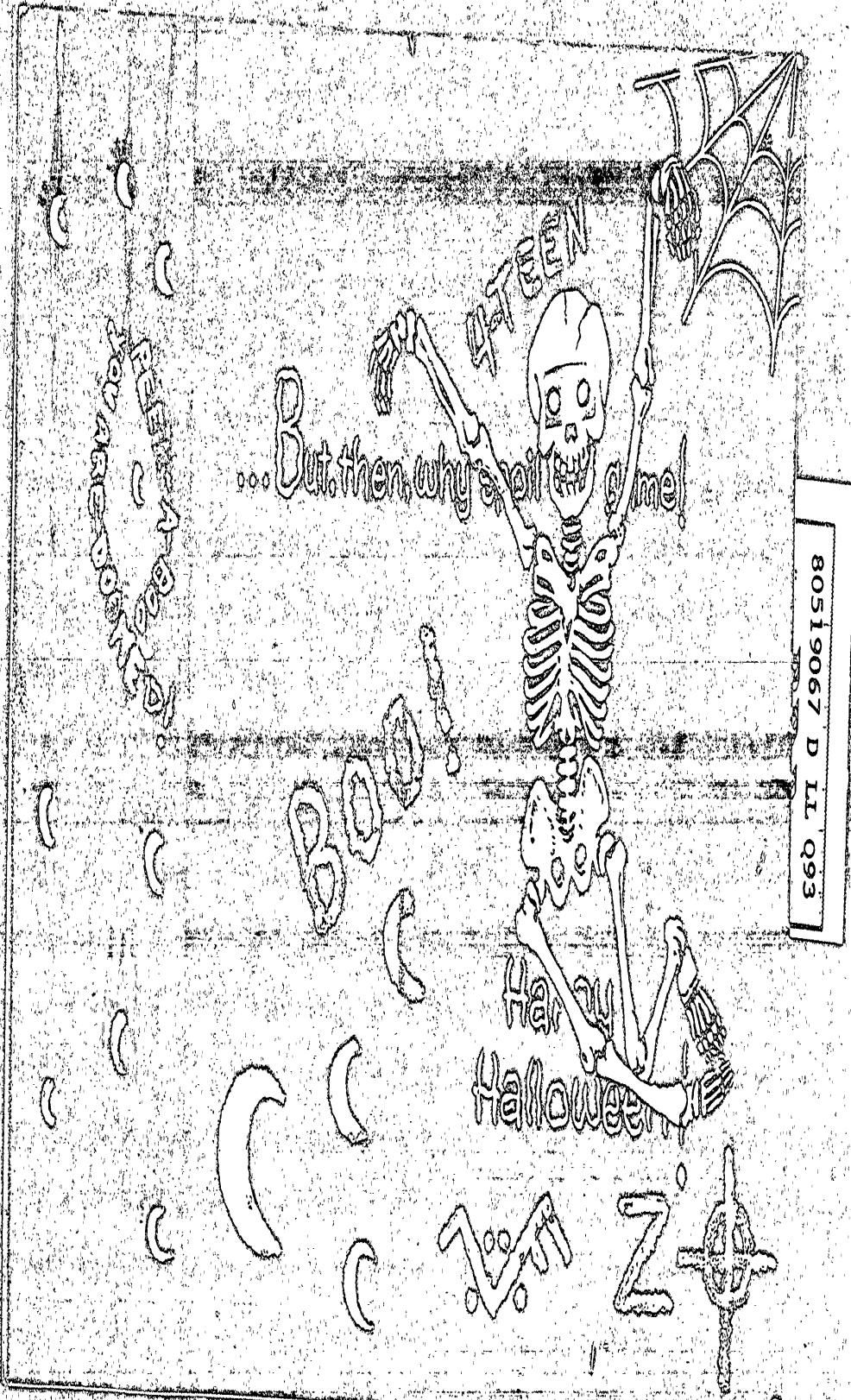
BY FIRE PARROT BY GUNNAGE
BY KNIFE DICE BY ROPES

80519067 DLL Q93

FROM YOUR
**SECRET
PAL**



I feel it in
my bones.
You scheme
to know
my name.
And so
I give
you in



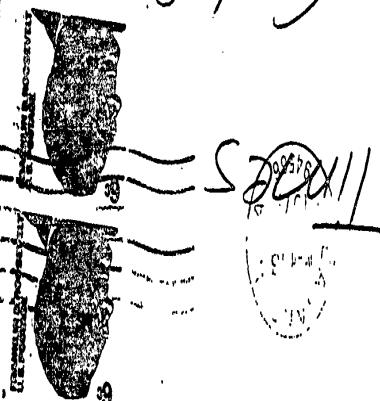
80519067 D LL Q93

80519067 D LL QC94

MB 7-20-93 302246Z

AIR MAIL

Please Rush to E.D.P.
Los Angeles CA
f/1/93



SAN FRANCISCO CALIFORNIA
THE AIR MAIL

AIR MAIL

This is the Zodiac speaking
 like I have always said
 I am cock proof. If the
 Blue Meanies are ever
 going to catch me, they had
 best get off their fat asses
 & do something. Because the
 longer they fiddle & faw
 around, the more slaves
 I will collect for my after
 life. I do have to give them
 my river side activity, but
 they are only finding the
 easy ones, those are a hell
 of a lot more been done.
 The reason that I'm writing
 to the Times is this, They
 like some of the others,
 SFPD - O -17+

80519067 3-15-71 700



EISENHOWER-USA

Editor
San Francisco Chronicle
San Francisco, California

80519067 D 11 Q95

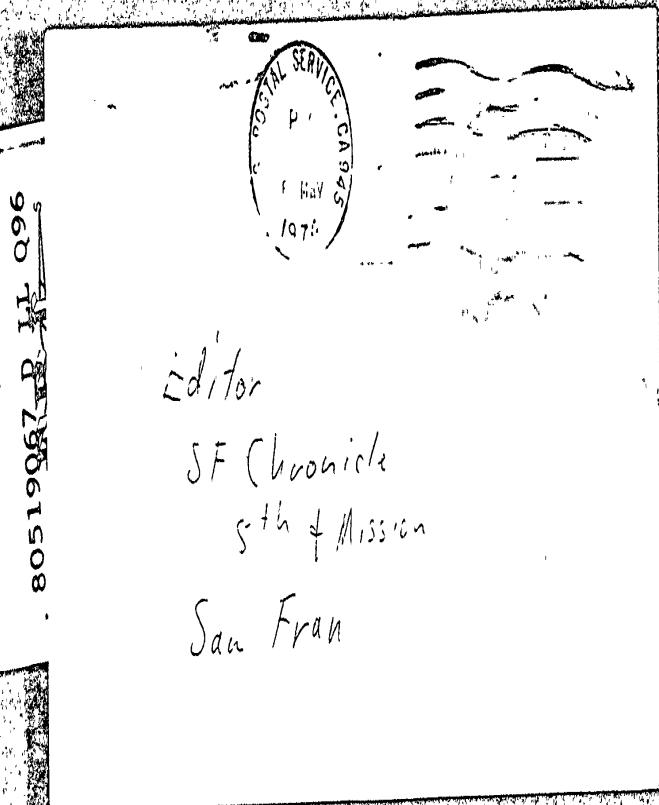
Dear Mr. Editor,

Did you know that the
initials SLA (Syabionese
Liberation Army) spell "la",
an old Norse word
meaning "kill".

—
a friend

80519067 D LL Q95

80519067 D LL Q95



80519067 D LL Q99

Dear Editor

This is the Zodiak speaking I am back with you. Tell herb caen I am here, I have always been here. That city pig tachi is good - but I am the smarter and better he will get tired then leave me alone. I am waiting for a good movie about me, who will play me. I am now in control of all things yours truly

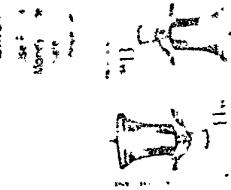
 -gaess

SPPG - 0

9-49911

Q49

Paying
bills?



S.F. Chronicle
San Francisco Calif.

Please Rush to Editor

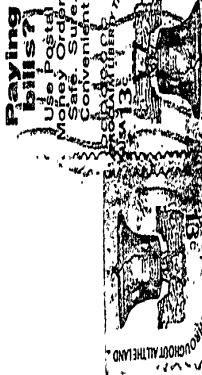
Dear Editor

This is the Zodiac speaking I am back with you. Tell herb caen I am here, I have always been here. That city pig toschi is good - but I am ~~but~~ smarter and better he will get tired then leave me alone. I am waiting for a good movie about me. who will play me I am now in control of a stars.

Yours truly :

+ - guess

9-49911



S.F. Chronicle
from Francisco Catif

Please Read to Editor

104 P. 7 of 104 to Editor

690 LT D 49061508

80519067 D LL Qc100

~~FB~~

Sick, of living/unwilling to die

clean,

feed /

clean

blood spouting,
dripping,

spitting,

all over her new

dress.

she well,

it was red

anyway.

life draining into an

uncertain death.

she won't

die.

this time

someone'll find her,

first will tell

next time.

rh



Joseph Bates

4195 Via San Jose
Riverside
California



Riverside Police Dept.
Riverside
Calif.

068 ↑

PRESS Enterprise
3512 1/4th Street
Riverside
California



805190621P HK Qe100

SAN FRANCISCO POLICE
ELLISON



Pc 62

(P85

80519067 D LL 486

EL-4000E-3000

FBI

3226

TRANSMIT VIA:

PRECEDENCE:

- Immediate
- Priority
- Routine

CLASSIFICATION:

TOP SECRET
 SECRET
 CONFIDENTIAL
 UNCLAS E F T O
 UNCLAS

Date 7/14/81

TO: DIRECTOR, FBI (9-49911)
ATTN: FBI LABORATORY, DOCUMENT SECTION

FROM: SAC, SAN FRANCISCO (9A-2296) (SQ.10)

SUBJECT: aka

- Victim

Possible Extortion
OO: San Francisco

Re San Francisco airtel to Bureau, 5/29/81; Bureau
Lab examination Report to San Francisco. 6/26/81.

Enclosed for the Bureau are four letters with [redacted] analysis of an article from the pen of [redacted] also enclosed. Each letter, addressed to [redacted] Supervisor, San Francisco Division with [redacted] analysis are dated as follows: 1 - letter with [redacted] analysis of [redacted] [redacted] article, dated 6/17/81. 1 - letter with [redacted] analysis of calendar regarding Zodiac murders, dated 6/24/81. 1 - letter with [redacted] analysis related to Zodiac's telephone number, i.e. telephone number of [redacted] dated 6/30/81. 1 - letter with analysis entitled "The Smoking Pistol", dated 7/4/81.

b6
b7c

In connection with previously submitted documents, i.e. "Malice in Wonderland", as an enclosure with referenced communication dated 5/29/81. authored by captioned individual, enclosed herein is [redacted] detailed analysis to support his previously expose of his theories.

2 - Bureau (Enc. 4)
2 - Boston (9B-3930) (Info)
2 - San Francisco
RLS:kes
(6)

CARBON COPY

Approved: _____ Transmitted _____ Per _____
(Number) (Time)

SF 9A-2296
RLS:kes

[redacted] This analysis was requested by Supervisor [redacted] and interviewing Agents on 5/22/81 when [redacted] was interviewed regarding [redacted] complaint of harassment, in the Boston Office, from receipt of "Malice in Wonderland" and various articles sent to him by [redacted] via the U.S. mails.

Copies of these enclosures are being furnished to Inspector [redacted] San Francisco Police Department (SFPD), who is assigned to the Zodiac killings investigation within their department. Inspector [redacted] was previously furnished materials received by [redacted] as sent to him by [redacted]

San Francisco is unable to assimilate the validity of the enclosed documents, along with the previously submitted materials, purported to be a "solution" to the identity of the Zodiac killer as theorized by [redacted]. Due to the complexity of the codes of [redacted] analysis, this material is being forwarded to the FBI Laboratory Document Section for review. It is suggested that referenced airtel and Lab report (referenced above), be reviewed prior to examination of the enclosed materials.

b6
b7C

The Bureau is to note that on 7/8/81, [redacted] was generally advised that the FBI Laboratory was not convinced that he had reached a "solution" of the Zodiac codes in his analysis. It is further noted that in the enclosed communication, entitled, "The Smoking Pistol", [redacted] attached an additional page in which he asked if he should send a copy of it to [redacted] was again warned that he could incur both criminal and civil liabilities by continuing to send materials to [redacted] stated that he had in fact sent one more card to [redacted] He stated he wanted to be totally "up front" with the FBI and he would never again send any material to [redacted]

[redacted] was also advised that the enclosed materials concerning Zodiac codes would be furnished to the FBI Laboratory for analysis and that he would be advised as to the findings of the Laboratory.

SF 9A-2296
RLS:kes

REQUEST OF THE BUREAU

The FBI Laboratory is requested to examine the enclosed documents and those previously provided to determine if there is any validity to [redacted] claimed "solution" of Zodiac killer's codes.

LEADS

BOSTON DIVISION

AT BOSTON, MASSACHUSETTES. Should [redacted]
receive the card sent to him recently by [redacted] and he
complains to your office, advise that [redacted] has been admonished
and [redacted] assured the San Francisco Division he would cease and
desist any further communiques to [redacted]

a
b6
b7C

7-43 (Rev. 1-17-78)

UNITED STATES GOVERNMENT

Memorandum

TO : Assistant Director (JW) *per*
Records Management Division

FROM : Assistant Director
Laboratory Division

SUBJECT: ZODIAC

OO: San Francisco

DATE: January 8, 1985

There is enclosed the file which has been maintained
in the Laboratory in connection with the above-captioned matter.
It is desired that this file be maintained as an enclosure to the
main file in the Records Services Section.

- 225
15 JAN 9 1985
NOT RECORDED

Enc. 1 *BULKY*

Bufile: 9-49911

JAN 16 1985 216

FBI/DOJ

[REDACTED]
[REDACTED] CA [REDACTED]
17 June 1981

[REDACTED]
Supervisory Special Agent
Federal Bureau of Investigation
450 Golden Gate Avenue
San Francisco CA 94102

Dear [REDACTED]

[REDACTED] Enclosed is my analysis of a document from the pen of [REDACTED] along the lines used in my previous analyses of Zodiac writings.

Sometimes I wonder why I am doing this, but at those times I am buoyed up by the thought that if I weren't convinced of being right, I wouldn't do it, and if I am right, then we'd all be losers. On the other hand, if I'm wrong, then I'm wasting my own time.

In any case, the text of the enclosed article by [REDACTED] runs to exactly 1970 words. 1970 in binary notation is 11110110010. That can be read in Morse Code as TOWER, which is the subject of the article. Curious coincidence?

b6
b7C

That was what they call in television a "teaser". I hope it will induce you to read the rest. If I can be of any further help, don't hesitate to call.

Sincerely,

[REDACTED]

Enclosure

9A-2296-701

SEARCHED	INDEXED
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JUN 22 1981	
FBI - SAN FRANCISCO	

[REDACTED]

[REDACTED]

WWTMITT

I have suggested elsewhere that there are a number of biographical and familial facts that appear to connect [REDACTED] with Zodiac as revealed in Zodiac's writings. I am now going to attempt the analysis of a document which is known to be from [REDACTED] hand, namely his maiden journal-article, [REDACTED]

b6
b7C

[REDACTED] March 1967. The subject is the adverse consequences of wind turbulence in a ground-floor open lobby in a high-rise building on the MIT campus in Cambridge.

WWTMITT was written about the same time as the Riverside documents. Maybe I'm suffering from preconceived notions, but I find that the article in question fairly bristles with Zodiac-landmarks, -traits, and figures of speech. Just to set the tone, I'm going to lead off with an observation which, if it results from coincidence, is astounding.

The subject is a tower. The word "tower" is used repeatedly in the text to refer to the building. The title refers to as a it "tower". Apart from title and captions, the main body of the text is exactly 1970 words long. Here's 1970 written as a binary number:

11110110010

And here is the same sequence, with my conjectural divisions:

1	111	011	0	010
T	O	W	E	R

The number 1970 is an interesting one. Out of 15-16 Zodiac communications, 7 or 8 were received in 1970. 1970 is ten times the letter-count in the Riverside poem, 197. 197, written as a Binary-Morse word: 11 0 00 101. ME IK.

Let's back up and go back to the August 1969 cipher. It contained the word DADGERTUE. I'm going to write it out in Morse:

100	01	100	110	0	010	1	001	0
D	A	D	G	E	R	T	U	E

Now, with the pauses shifted, the same sequence:

1000	11	00	11	00	0	1	101	001	0
B	M	I	M	I	E	K	U	E	

BMI can be read as BM Ego, BM 9, I am BM. UE is, I believe, an abbreviation formed from the name [REDACTED] Is yet another variation on permutations of [REDACTED]

WWTMITT (2)

Maybe that sequence that I just read as MIEK isn't meant to be read that way. Maybe it's really just a number. And which number might that be? You got it: 197. (11000101) In any case, it could also be read as ME IK. It's an interesting number for somebody who habitually plays with numbers. 1 is A, 9 is I, 7 is G. AIG in WIZARD is ZRT. ZRT, spelled out as a binary number, is 197. * No matter which way you turn it, it comes out the same. A person obsessed with numerical and alphabetical manipulations would have to see it as a kind of benchmark or archetype. But back to the article. *see attached*

There are 7 titles in the article, the main title and 6 captions. By letter-count, they are 27-17-14-18-20-22-16. The heading of the first Riverside letter had a letter-sum of 27 (BY-----); 27-sums are the basis of the WIZARD-alphabet; the Berryessa murder took place on 9-27; and 27 in binary notation is 11011 (note graphic similarity to HOH). The 6 caption titles correspond to the letters Q, N, R, T, V, and P. Here are those same letters in Morse:

1101	10	010	1	0001	0110
Q	N	R	T	V	P

Here's that same sequence again, with pauses shifted:

11	0	11	00	101	0	001	0110
M	E	M	I	K	E	U	P

UP is FK in WIZARD, and it appears in contrived stress in the Riverside letter, in conjunction with ID, which I take to have its common colloquial meaning "identity": "Miss Bates was STUPID. . .she did not PUT UP a struggle, but IDID."

Like 197, QNRTVP, translated into WIZARD, works both ways, giving essentially the same message as in Morse:

Q	N	R	T	V	P
J	M	I	G	E	K

[redacted] has the same form in Morse as ME, and Z. uses it occasionally to stand for ME in predication. J is the missing part of FK, and FK is UP from the Morse f phrase above. J/Q is one part, UP/FK is the other. JFK 9 was the recall-code from Dr. Strangelove, and in the phrase, "FK. I am crackproof.", Jack has vanished along with the disappearing number 9.

Progressive Architecture abbreviates itself as PA. I suggested elsewhere that the phrase "Pass Lake Tahoe Areas" on the Tahoe card was to be read as [redacted], but another possibility suggests itself on reading this article. That is [redacted]

WWTMITT (3)

SSS being 19x3, or 57. It could mean Diagrams 5 and 7. 5 shows two circles, which are completely unrelated to the problem under discussion -- wind-flow problems in the lobby of Green Tower. The Riverside poem contained the anagram, DANTE CIRCLE 2. Circle 2 is the circle of the winds, and two circles is the letter I in Morse Code. Diagram 7 shows two elongated rectangles, 11, letter M. MI, 11 00, is without the pause Z, 1100. Moreover, the sum of 5 and 7 is 12, binary 1100, Z.

The title, taken as an initialism, counting all capitalized letters, is WWTMITT. MI in Morse is the same as Z. Taking that group as a break between members of an otherwise binary set, it reads, WWT TT. In the Riverside letter, Z.'s used W as dash, all other letters as dot. Applying that same system here, a typically Zodiacal message emerges: ME I.

That isn't all there is to the title. It also appears to be an anagram.

[REDACTED]

THIRTEEN. OUGHT. OH. DLMT. WWWRIISS.

What about the
DLMT?

That doesn't look like much of an anagram, since I have apparently wound up with 8 incoherent letters at the end! But it does have significance, and it seems to fit like the last piece in a jigsaw puzzle.

13 is M, ought is O. 13-0 is another way of writing the monogram, MO. 130 is binary 10000010, 1000 0 010, [REDACTED] is a common theme: [REDACTED] WWWRIISS has the letter-sum of 143. 1-43 is January 1943, the month and year of [REDACTED] birth. W is 23, the angle of inclination of the Poles, I and R are 9-divisible, and SS is 38 (TIME). 13(M) is one-tenth of [REDACTED]. Their sum is 143 [REDACTED] month and year of birth. 143 in binary: 10001111, 1000 11 11: BM M, BM 13. Benchmark 13 is found right at the east wall of Green Tower, the subject of [REDACTED] article (copy from USGS topographic map attached).

b6
b7c

DLMT. Deer Lodge, Montana. DL in Morse: 100 0100. With pauses shifted, it reads: 10 00 10 0, NINE. MT is not just Z.'s shorthand for "zero", it's also a binary number, 111 (7). DL MT is another way of saying NINE 7. NINE 7 seems to play on the sequence 197/1970 discussed above. Z.'s last authenticated letter was postmarked July 9th, 1971 (7-9). NINE 7 also happens to be [REDACTED] birthdate [REDACTED] Poland).

BM 13 is at Green Tower. What about BM 9? BM 9, the closest benchmark in Cambridge to [REDACTED] residence, is right on the sidewalk of Massachusetts Avenue. Think of Z.'s Christmas greeting to Melvin Belli: "Mery Xmass". It's marked on the map: X BM 9.

WWTMITT (4)

130 (BER) is another of those interesting numbers, particularly in the context of this journal article. It's the scale used by [] in building his model of Green Tower (130:1). The significance of the number 27 has already been discussed. [] used 27 pressure-sensor tubes in the model. The three apertures on the ground floor correspond to the number of orifices in a woman's body. [] speaks of "piercing" that part of the building -- and that's where Zodiac you've got stabbed Cecilia Shepard. Examining [] diagram of the placement of those holes in the model, they correspond by analogy to the breast, abdomen, and genital regions, which is where Zodiac wounded his Berryessa victim.

Lake Berryessa took place on 9-27, at 6:30, according to Z.'s own documentation. 18 wounds were inflicted. All those numbers are divisible by 9. Green Tower has 9 rows of windows, each row 18 windows wide. 9 is 3², ~~00000000~~ 9 and 18 is 27, which is 3³. The total number of windows, 9x18, is 162. 1 is A, 6 is F, 2 is B: Air Force Base. Z.'s Bay Area scheme was centered on Travis AFB, and the Riverside murder took place a few miles from March AFB.

It's also notable that [] does not refer to the building in question by its actual name, Green Tower, but as "Earth Sciences Building". GT is a WIZARD-pair; in Morse, it's 1101, which can be read as Q, which Z. used to stand for M in the August 1969 cipher. As a binary number, it's 13. GT (13) stands on BM 13.

b6
b7C

Doors in the passageway were badly damaged, [] reports, by the wind. "Door hardware" had to be replaced frequently. Most architects would not use that phrase. "Hardware" is what you find at Ace; "fittings" are what you find in the architect's bible, Sweet's Catalogue.

D O O R H A R D W A R E

D2 02 R3 H A2 W E

^{why?}
DxW cancellation. The remainder reads:

[] 2223: [] 9.

On the page showing the diagrams, [] illustrates the difference between isobars and pressure-figures with an example of the two different sizes of prepared numerals. The number he chooses to use in the illustration is 23. The range of numbers used in the diagrams is between 60 and 95: 23 is an odd choice. 23 is W, 23 is the inclination of the Poles in degrees, [] was 23 at the time of the Riverside murder and the preparation of this article.

WWTMITT (5)

Now let's talk about something literary instead of mathematical. Figures of speech.

This scouring of the boundary layer is illustrated, on a small scale, by the familiar depression in the snow that occurs on the windward side of a fence post or telephone pole.

The Lake Tahoe card bore the phrase, AROUND IN THE SNOW. I interpret the word AROUND as A ROUND, meaning a zero or hole. In fact, Z. embellished the card with a paper-punch hole in the snow beside a tree.

Punching an opening. . . between these pressure zones is like removing the valve from an automobile tire; the air rushes vigorously from the high-pressure zone to the low.

Zodiac:

School buses make good targets. I think that I shall attack a school bus one fine morning. Just shoot out the front tire and pick off the kiddies as they come bouncing out the door.

Buses Make Good Targets. BM GT. BM 13. BM Green Tower. I have argued elsewhere that the "kiddies" are in fact Polaris (Pole Star) missiles being fired from a sub, which is mirror-image spelling for "bus". SLBM's are fired from their missile tubes with compressed air. The SLBM does indeed "bounce out", and its tube is capped with a door. Even the word "tire" is of interest:

1 00 010 0
T I R E

10 00 10 0
N I N E

A tire is shaped like a zero, a favorite Z.-theme.

Just as we cannot expect a model beam one-tenth the size of its original to fail at one-tenth the load the original will carry. . . .

Model Beam: MB. M(13) is one-tenth of BER(130). 197 (ME IK) is one-tenth of 1970 (TOWER).

Finally, the last caption title: Manifold Benefits. MB again. It's the sixth one. 6 is 110, ME. ME MB.

Mary Burger

WWTMITT (6)

Last not least, WWTMITT again. I suggested before that MI(Z) be read as a break. There's another way to read it:

WWT (ME) MI (Z) TT (I)

110 (ME) 110000

110000: 11 0000: MH ([redacted] WIZARD SN)

110000: 48. 4 is D, 8 is H.

Z. frequently uses TEA (1001, 9, I) as a subject in predication. TEA DH is an anagram of DEATH. ME DH stands for TEA DH. Reading it that way, the title, [redacted]' is another way of writing the word DEATH.

b6
b7C

What is the response
to [redacted] article?

A B C D E F G H I J K L M
Z Y X W V U T S R O P O N

-- . . | . - . | -
T N I T A *man* T A I N T

as in tawny, blushing, etc

→ DU

as a contraction of it ain't (correct?
plausible?...)

-- . . . - - could also be

G | E | R | T as in Gertrude

- and what else can we fit in there ...?

[REDACTED]
[REDACTED] CA [REDACTED]
24 June 1981

[REDACTED]
Supervisory Special Agent
Federal Bureau of Investigation
PO Box 36015
San Francisco CA 94102

Dear [REDACTED]

This coming Friday is six months to the day from the beginning of this Zodiac project. It's a good day for me to get out of it while I still have a few shreds of sanity left.

I always thought that you have to count everything in Zodiac to get to the bottom of the mystery. From time to time, it seemed that there wasn't anything left to count. Then something else would rear its ugly head. This time, I'm counting days on the calendar. That really is scraping the bottom of the barrel. Even so, it produces an exact fit between [REDACTED] and Zodiac (see enclosed).

[REDACTED]
There's an offer on page 4 that you can't refuse.

Sincerely,

Enclosure

SEARCHED	INDEXED
SERIALIZED	FILED
JUN 25 1981	
FBI - SAN FRANCISCO	

7-2296-702

Birthdays

The Berryessa murder is of particular interest to the student of the Zodiac because it is the only confirmed Z.-attack in which a conversation between murderer and victim was reported by the victim. Z. told his victims on 9-27-69 these things about himself:

- 1) that he was from Colorado;
- 2) that he had escaped from prison at Deer Lodge, Montana;
- 3) that he had killed a guard while escaping.

Investigation quickly showed that statements 2 & 3 were not literally true. There is no reason to believe statement 1, either. As with other Z.-pronouncements, I believe that the author is essentially truthful but devious in the manner in which he states the truth. I suspect that his deviousness extends to deluding himself and that he has convinced himself that he is not the Zodiac.

Some time later, Z. included this cryptic phrase in one of his communications: VICTIM 12 SOUGHT. I previously analyzed this statement as being a large number. CVII is 107, S is 19, and added to 12, the sum of the three is 138. MT and OUGHT are zero-suffixes, making 13800~~M~~. I'll come back to 13800 later.

Colorado's postal code is CO. CO is probably a quote from the periodic table: cobalt, atomic number 27 (it was the 27th of September, Z.'s WIZARD-alphabet is based on combinations of letters adding up to 27, 27 is 9-divisible, etc.). I think that "I am from Colorado" is another way of saying, "ME 27". ME, Morse 110, is binary 6. ME 27 is 6-27, the 27th of June. I will eventually get to the point, I promise; but I want to set June 27th aside for a moment.

Deer Lodge, Montana, taken as an initialism, is DL MT. It's tempting to read it as Roman numerals, 5500, and that may be a secondary meaning. But after staring at it uncomprehendingly for the last six months, I believe that I have finally figured it out. It's Morse Cdæe.

DL: 100 0100. With pauses shifted, 10 00 10 0: NINE. It's Zodiac's favorite number. MT, in Z.-parlance, is zero. Zero, in base-10 arithmetic, takes the place of 9. However, MT is also a number, 111 -- 7. DL MT is a devious manner of stating the sequence 9-7.



b6
b7C

Birthdays (2)

The significance of 38 to Zodiac has been discussed elsewhere. He killed Paul Stine in the 3800 block of Washington Street, wrote that he had shot a man sitting in a parked car with a 38, and his gigantic clockface here in the Bay Area reads the time 8:38 (22 before 9). 38 as a binary number is 100110, TIME ("... I said it was about time. She asked me, about time for what? I said it was about time to die."). And having said that, I am finally going to get to the point.

The point is [redacted] birthday, specifically, her 38th birthday, on 9-7-45 (she was born 7 September 1907 in Lowicz, Poland). On that day, her age expressed in days was 13,880 exactly.
[redacted]

Her age on her [redacted]th birthday, [redacted] spelled her son's initials.

[redacted] On 9-27-69, the date of the Lake Berryessa incident, [redacted] age expressed in days was [redacted] exactly. His age in days replicated the date of his mother's 38th birthday, when her age spelled out his initials. (u, c, l, ?)

b6
b7C

Z. loves to doodle around with numbers, so I will, too. The square root of 13,880 is 117.8158. . . . 117 is the 117th Meridian, Riverside/Death Valley. 8 is H, 15 is O, 8 is H. 117-HOH: his initials again.

[redacted] of course, is not the precise sequence of his initials. [redacted] is. That's 13,808. That was his mother's age on 6-27-45, the 27th of June. ME 27. I am from Colorado.

The number 13,800 (VICTIM 12 SOUGHT) can be read as M (13) H (8) I (00, Morse I): "I am [redacted] in WIZARD is NS ("I am Not Sick, I am in SaNe.") Why did Z. not construct a number spelling out [redacted] Because it would have been too large. The square root of 13800 is 117.4733. . . ., which expressed as angular measurement is 117°28'2.76". The Riverside murder took place on 117°24'6", which is a close fit. The square roots of [redacted] would have wound up 25-26 minutes of longitude farther west.

Trying another variation on the mathematical doodling process that I believe Z. went through, I tried treating significant numbers as complements adding up to his favorite number, 9. His age in days on 10-30-66, the date of the Riverside murder, was 8682.

$$\begin{array}{r} 9999 \\ -8682 \\ \hline 1317 \end{array}$$

Birthdays (3)

Z. used Q to stand for the letter M in the August 1969 cipher. He used several symbols for each of the letters whose frequency in English is greater than that of M. He thus established an equivalency between M and Q and made Q the most frequently-occurring symbol in the field of cipher symbols. M is 13 (13-character cipher, 13 holes in the Hole Card, 13 eyes on the Halloween Card, etc.), Q is 17 (both ciphers 17 characters to the line, etc.). I believe that M is [REDACTED] Q is his mother (Queen; and Q in Morse is 1101. 11 01, the same sequence, is MA.)

I have hypothesized previously that Z.'s "radian" angle, really 58 degrees, is a signature, a concealed form of the name [REDACTED], which is written in Morse Code with [REDACTED], 6 is ME. 6 radians is 343 degrees. 343 is another interesting number. It's the cube of 7 (111, MT). Its square, 117,649, bears a close resemblance to the Riverside longitude. A circle whose diameter is 343 has a circumference of 1077. 1077 is the exact number of days between Zodiac's first known murder in Riverside and his last known one in San Francisco (10-30-66 to 10-11-69). One last observation on 7/111/MT: MT in Zodiacean means zero, hole, anything circular. As a number, it's 7. I've pointed out a couple of Dante-quotes in Zodiac before. Here's another: Circle 7. Bulicame, the River of Boiling Blood, the eternal abode of the homicides. In any case, I believe that 6 radians [REDACTED] is another of his mathematical metaphors.

b6
b7C

Riverside letter I contained the sentence, "When we were away from the library walking, I said it was about time." The peculiar word-order led me to read it as a concealed Morse message, WWW 0000 WO 00 WO 0: OH NINE. The sentence following ("She asked me, about time for what?") is 7 words, 26 letters. 26 is Z., a signature, and 7 goes with the preceding NINE to spell out Berta Margoulies' birthday once again. Why use W? Because it's letter number 23, 23 degrees is the inclination of the Poles, and BM is a Pole. Besides, MOH was 23 years old at the time.

The binary numbers Z. uses in combination with Morse Code express quantity by powers of 2. Here's 2 to the 23rd power:

8388608

838 is the time expressed on the Bay Area clockface. 6 is [REDACTED] and the rest is 808: [REDACTED] 2 to the 23rd reads: "22 before 9." [REDACTED]

I can't leave Q out. 2 to the 17th is 131072. 13 is M, 1072 is Binary-Morse for DEATH.

Birthdays (4)

One last manipulation on 838. The project was carried out in 1969. Treating the phrase 83869 as a 9-complement, an interesting number results:

99999
-83869
16130

16130: 1111100000010. 11 111 1 0000 0 010: MOTHER.
The last three digits, 130, are 1000 0 010: []

And now at long last, I think I know where 532 (DICE) came from. It appears, for instance, as the pen-strokes in the quote from the Alice illustration (right to left, 5, 3, and 2 strokes per group). Here is a sum of names in Binary-Morse:

200	[]	E (11001000)
130	[]	(10000010)
202	[]	(11001010)
532		

To get back to the subject of birthdays briefly, I mentioned the connection between the date of the Lake Herman Road murders (12-20) and the 122nd Meridian (38 North and 122 West intersect on Concord Naval Weapons Station). [] birthday.

And to pick up the last loose end, "I killed a guard while escaping", let's look more closely at the words, "a guard":

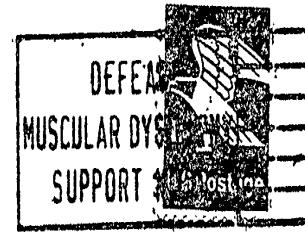
A G U A R D

b6
b7C

AGUA. RD. Agua is Spanish for H₂O. H2ORD. ORD is []
Airport in Chicago, the city that is half-Polish. "I killed
[] while escaping." Based on the exact fit between []
age at Berryessa (9745) and its counterpart in his mother's 38th
birthday, which spells out his initials, and taken together with
everything else, I don't see how coincidence can explain any of
this away. I believe that Zodiac is a second personality of whose
existence [] is probably unaware, and which is modeled on BM.
Z. requires acclaim of the sort that BM received as a working
artist, but Z., being an invisible identity, has to seek recognition
by devious means, such as killing people and then advertising his
identity in concealed form on the front page of the Chronicle.

I could still be wrong, but I don't see how. If you tell me
that [] is 6'4", weighs 120 pounds, and was in Australia from
1965 to 1970, I will come down to the Federal Building with a
bucket of cold water, and I will stick my head in it out in the
plaza during the lunch hour rush. And I'll do it on []
[] birthday, []. Incidentally, that date works
out to be 26(Z) times pi.

[REDACTED]
[REDACTED]
CA



[REDACTED]
Supervisory Special Agent
Federal Bureau of Investigation
PO Box 36015
San Francisco CA 94102

b6
b7c

[REDACTED]
[REDACTED] CA [REDACTED]
30 June 1981

[REDACTED]
Supervisory Special Agent
Federal Bureau of Investigation
PO Box 36015
San Francisco CA 94102

Dear [REDACTED]

I know I promised to knock it off. But I also promised a treatment of the Zodiac's telephone number. Here it is.

In keeping with my pledge, I did the actual computations last Friday. I just didn't get around to writing it up until this morning.

This time, the coincidence is astonishing. I am suggesting an acid test of this system which would cost the FBI next to nothing, namely one piece of information from the phone company.

[REDACTED] who is reading this seemingly-endless serial, has suggested that the motive involved is human sacrifice, to mark or consecrate mathematically-significant junctures in the Zodiac's egocentric scheme. He has come across literature on a group in aerospace-related professions that is attempting to derive the natural language of the universe from the numbers attaching to certain physical phenomena. It seems possible that the Zodiac might have been stimulated to his activity by contact with this group. You might want to talk with [REDACTED] about it. This concern with proto-languages, by the way, is not new: it crops up in our culture frequently over the last 3000 years.

Sincerely,



Enclosure

send to fat
E

94-2296-103

SEARCHED	INDEXED
SERIALIZED	FILED
JUN 1 1981	
FBI - SAN FRANCISCO	
[REDACTED]	

6266

There can't be many phone numbers in the U. S. that spell out the subscriber's initials in Morse Code.

[] does. It's []

[] in Morse to binary:

[]

The (base-10) number expressed is 6256. The difference between that and 6266 is 10.

The number 10 has the peculiarity that when it is spelled out in English, then Morsed and read as a binary number, it gives (base-2) 1010, (base-10) 10. It's the same both ways. It represents a convergence of systems, and to someone with a Kabbalistic mind, it would have to appear to be an outcropping of the underlying proto-language of the universe (to me, it's coincidence).

Here's a sum:

<u>English</u>	<u>Binary-Morse</u>	<u>Base-10</u>
[]	1100001110000 + 1010 _____ 1100001111010	6256 + 10 _____ 6266

b6
b7C

Even with the addition of TEN (1010, 10), the initials [] are preserved.

If this configuration of numbers is not coincidental, why add 10? What does [] mean? It appears, by way of another computation, to fit into the Zodiac's thematic edifice as follows:

[]

36x10: 360. 360: circle. Circle (MT): zero. Zero: 9 (zero stands for 9 in base-10 arithmetic, 9 equals zero by casting out nines). [] thus stands for 9. Let's substitute it back into the original phone number. [] 5479. It's BM's 38th birthday spelled backwards. 6266 could also have had a programmatic content: The Bates murder in Riverside took place on 10-30-66. There were 62 days remaining in the year.

6266 (2)

I suggest an acid test of this analysis. The phone company should be able to tell you whether this number was assigned to [redacted] on a random basis or was requested. If it was requested, then we can rewrite Revelation 13:

> Here is wisdom. Let him that hath understanding count the number of the beast: for it is the number of a man; and his number is [redacted] (area code 617).

ADDENDA

b6
b7C

1. I mentioned under the subject of birthdays that 343 (6 radians, [redacted]) might be the mathematical metaphor underlying the 1077-day period encompassing the Zodiac murders. I neglected to note that it's also the number of days remaining in the year after [redacted] birthday.

2. I should have included under "Birthdays" the Count Marco letter, the last authentic Zodiac communication. I counted MARCO. It's 11010101010111, 13,655. MARCO begins with M, the 13th letter. The number resulting begins with 13. And the intermediate binary number begins with 2 to the 13th. 13,655 is also in the same ball park as Sought Victim 12 (13,800) and the 13,808/13,808-day period ending in 1945. Its square root is 116.898, the longitude of March AFB.

3. [redacted] engineering specialty is wind. In the WWTMITT article, he used the word "zephyr" to describe the winds blowing through the lobby of Green Tower. It's highly inappropriate, because the zephyr (from the Latin personification of the west wind, Zephyrus) is traditionally a gentle breeze. The neuter form, zephyrum, is the original Latin form from which our word "zero" is derived. Zephyrum, for its part, is from the Arabic sifr, "empty" (MT). Sifr is also represented in English by "cipher" -- as in cryptograms.

4. [redacted] can be read as an anagram: [redacted] is ONE. ONE, as a Binary-Morse word, is the number 60. TWO is 95. ONE plus 35 is TWO. 35 is 100011, BM. OH plus BM equals TWO.

5. The sequence 9-7 is a mathematical curiosity. Binary 1001 (9) plus 111 (7), written in sequence: 1001111: 79. 79 could be a disguised form of 9-7. The Count Marco letter was postmarked 7-9-74. 9 is expressed by zero, and binary 7, 111, is Zodiac's MT, another way of saying zero. 9-7: zero-zero: Morse letter I.

The Fourth of July

This is it, I promise. But this is the proof, and I think it has very nearly the statistical validity of a fingerprint.

Do you think I ought to send [redacted] a copy to see if I get a rise out of him?

b6
b7C

gp

94-2296-106

*Send to
Jot*

SEARCHED	INDEXED
SERIALIZED	FILED
JUL 18 1981	
[Redacted]	

THE SMOKING PISTOL

[redacted] telephone number, [redacted], was not issued to him at random by the telephone company.

[redacted] expressed in binary notation: 1100001111010 [redacted]
[redacted] expressed in Morse Code: 1100001110000 [redacted]

There are 31 possible telephone numbers which, when expressed as binary numbers, can begin with that 9-digit sequence:

0391	1566	3131	6256	6261	6266	6271
0782	1567	3132	6257	6262	6267	
0783	3128	3133	6258	6263	6268	
1564	3129	3134	6259	6264	6269	
1565	3130	3135	6260	6265	6270	

Out of the field of 10,000 combinations available under each prefix, the probability of any given subscriber receiving one of these numbers at random is 31/10,000.

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The common factor in all 31 telephone numbers is the sequence 110000111, which can be read in Morse Code to spell these monograms:

1	1000	0111	TBJ	110	000	111	GSO	1100	0	0111	ZEJ
11	000	0111	MSJ	110	0001	11	GVM	1100	00	111	ZIO
11	0000	111	MHO	110	00	0111	GIJ	1100	001	11	ZUM

The probability of any given subscriber having any of these 9 3-letter monograms is $9/26 \times 26 \times 26$, or 9/17576.

The probability of any given subscriber having both one of those 9 monograms and one of the 31 telephone numbers containing that monogram:

$$9/17576 \times 31/10000: 0.0000015.$$

There are 125 million telephones in domestic use in the U. S. At that rate of probability, there are 187.5 subscribers whose initials are reproduced in their telephone numbers, using the Zodiac's Binary-Morse writing system. The odds against such an event happening by chance are 666,666: 1. [redacted] is one of the 187.5.

I have analyzed a number of Zodiac-puzzles in Binary-Morse, among other things (reverse-alphabet cipher, anagrams, rebuses, picture-puzzles, etc.). The Binary-Morse clues, like the others, abound in personalia which consistently fit [redacted] Pre-

Smoking Pistol (2)

dominating among those puzzles are those giving variations on the monogram [redacted]

Now, by applying the same system to a number that the laws of probability tell us must be a [redacted] artifact (one chance in over half a million that it isn't), a typical Zodiac message emerges: the author's initials. I am not competent to compute the probability of these spatially- and temporally-widely-spaced events being connected by coincidence, and it may be that there are too many variables and imponderables to make such a computation, so I'll fall back on a figure of speech in which I believe most statisticians and mathematicians would concur.

If you started typing zeroes in the upper left-hand corner of this page and kept going until you got all the way to the lower right-hand corner, the first significant digit would occur on page 2. It is now mathematically proven that it is about as likely that he is not the Zodiac as it is that two different individuals will have one identical fingerprint.

As the Zodiac himself would put it, 212.

Oh, I forgot. You don't speak the lingo. It means QED.

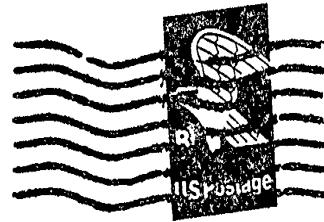
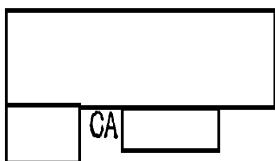
It's also the boiling point of water.

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xxx

PS: It did occur to me to wonder what the odds were on the [redacted] sequence, 110000111, showing up anywhere in a telephone number, at the beginning, in the middle, or at the end. There are 99 additional permutations for medial and terminal position, for a total of 130 telephone numbers containing 110000111 anywhere. The odds against [redacted] not being the Zodiac plummet dramatically to a mere 150,000 to one.

110000111
anywhere



[Redacted]
Supervisory Special Agent
Federal Bureau of Investigation
PO Box 36015
San Francisco CA 94102

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