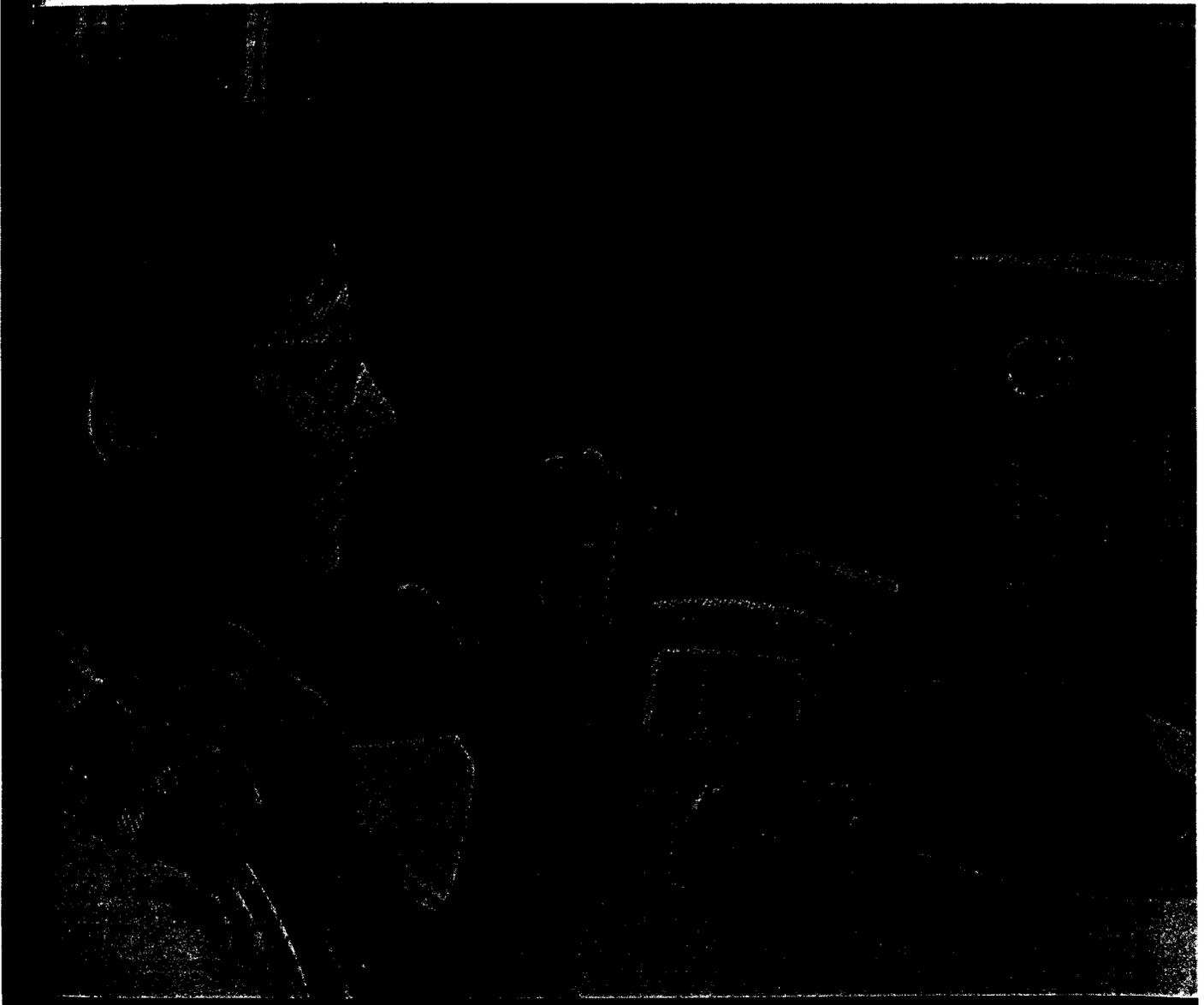


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Sign Language Via Picturephone



THE ASSASSINATION OF PRESIDENT JOHN F. KENNEDY:

THE APPLICATION OF COMPUTERS TO THE PHOTOGRAPHIC EVIDENCE

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Hartsdale, New York

"When one uses a computerized data bank, cross referencing becomes very easy and fast. In fact, it may provide so much more facility in getting at the available information and in answering questions, that it yields a revolutionary increase in what one can deduce."

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Sprague is currently the president of Personal Data Services Corporation, a research and consulting firm which he founded in 1968. He is the author of several books, including Information Utilites, published in 1969 by Prentice Hall. He is a member of numerous professional organizations, including: IEEE, The Institute of Management Sciences, the Association for Computing Machinery, the American Management Association, and the Society for Management Information Systems.

Part 1. Introduction

Who Assassinated President Kennedy?

On November 22, 1963, in Dallas, Texas, President John F. Kennedy, while riding in an open limousine through Dealey Plaza and waving to the surrounding crowds, was shot to death. Lee Harvey Oswald, an ex-Marine, and former visitor to the Soviet Union, was arrested that afternoon in a movie theatre in another section of Dallas; that night he was charged with shooting President Kennedy from the sixth floor easternmost window of the Texas School Book Depository Building overlooking Dealey Plaza. This act Oswald denied steadily through two days of questioning (no record of questions and answers was ever preserved). Two days later while Oswald was being transferred from one jail to another, he was shot by Jack Ruby, a Dallas night-club owner, in the basement of the Dallas police station, while millions of Americans watched on television. The commission of investigation, appointed by President Lyndon B. Johnson, and headed by Chief Justice Earl Warren of the U. S. Supreme Court, published its report in September 1964, and concluded that Oswald was the sole assassin and that there was no conspiracy.

In view of the authority of the Warren Commission, that conclusion was accepted by many Americans for a long time. But the conclusion cannot be considered true by any person who carefully considers the crucial evidence — such as the physics of the shooting, the timing of a number of events, and other important and undeniable facts. In other words, Oswald was not the sole assassin, and there was a conspiracy.

This article will develop that thesis, prove it to be true on the basis of substantial, conclusive evidence, and in particular some analysis of the photographic evidence.

There was in fact a conspiracy. Oswald played a role in the conspiracy, although there is conclusive evidence that on November 22, 1963, he did not shoot at President Kennedy, and that, just as he claimed when he was in the Dallas jail, he was a "patsy." At least three gunmen (and probably four) — none of whom were in the sixth floor easternmost window of the Texas School Book Depository building where the Warren Commission placed Oswald — fired a total of six shots at President Kennedy.

One of these shots missed entirely; one hit Governor John B. Connally, Jr. of Texas, riding with Kennedy; and four hit President Kennedy, one in his throat, one in his back, and two in his head. (The bulk of the undeniable evidence for these statements about the shots consists of: (a) the physics of the motions of Kennedy and Connally shown in some 60 frames of the famous film by Abraham Zapruder; (b) the locations of the injuries in Kennedy and in Connally; and (c) more than 100 pictures, consisting of more than 30 still photographs and more than 70 frames of movies.)

More than 50 persons were involved in the conspiracy at the time of firing the shots. These persons included members of the Dallas police force (but not all of the Dallas police — and that ac-

Note from the Publisher: In order to include the article by Richard E. Sprague in this issue of Computers and Automation, it was necessary to type the article in the typeface of our "Across the Editor's Desk" section, rather than the usual typeface for our articles. We regret any reduction in legibility that may have resulted.

counts for some strange events), elements of the Central Intelligence Agency, some anti-Castro Cuban exiles, some adventurers from New Orleans, and some other groups. After the assassination, some very highly placed persons in the United States government became accessories to the crime. In other words, they participated in assiduous concealment of important facts, in shielding the perpetrators of the crime, and in spreading a thick layer of rewritten history (in the manner of George Orwell's famous novel "1984") over the whole crime.

Of course, asserting these statements makes them neither true nor believable. Without very strong evidence, it would be evil to make such statements. As to believability, prior to District Attorney Jim Garrison's trial of Clay Shaw in New Orleans in Feb. and March, 1969, public opinion polls in the United States showed that over 75 percent of the people in the United States believed that there was a conspiracy. The press, radio, and TV almost everywhere in the United States reported Garrison's investigation and the New Orleans trial in a very distorted way. Furthermore, Garrison did not prove to the satisfaction of the New Orleans jury that Clay Shaw was involved in the conspiracy, even though he proved that Shaw knew and met Oswald. The news media of the United States (except for two newspapers in New Orleans) reported the trial in such a way as to show that no conspiracy existed. The media largely succeeded in changing U.S. public opinion, if we judge from the falling off of the poll percentages.

But the United States' media have been proved wrong many times before, and they will be proved wrong again in this case. For example, the press of the United States almost entirely refused to believe for five years (1903 to 1908) that the Wright brothers had flown in a flying machine heavier than air. Only after the Wright brothers had won spectacular air races and demonstrated other successful flights in France, did the majority of the "hard-headed" American press believe that the Wright brothers had flown!

But the evidence cited or referred to in this article, and the existing photographic evidence and its analysis, a little of which is published here, establishes the fact of conspiracy. This evidence along with other evidence should and can initialize a major change in the beliefs of the people of the United States. As for beliefs of the people of Europe, it has long been and still is accepted there that President John F. Kennedy was assassinated by a conspiracy.

What is the Evidence?

The evidence for the statement — "the Warren Commission conclusions are false" — is now overwhelming.

There now exists not only a mountain of new evidence, but also considerable new analysis of the old evidence, the evidence which the Commission itself published in the 26 volumes of Evidence and Hearings accompanying the Warren Report. Much of the new evidence and the new analyses of the old evidence are available for any serious researcher's inspection; if any such person is interested, he should write me.

There are four prime sources of new evidence and analysis:

1. Researchers all over the United States, some affiliated with the National Committee to Investigate Assassinations (NCTIA), others acting independently but cooperating with the NCTIA, have obtained new evidence from witnesses, and even from conspirators — including admissions and confessions.

2. The new evidence includes new photographic evidence, some of which is reproduced or described in this article.
3. Researchers have produced scientific, solidly-based analyses of the old and new evidence and published these analyses in books and articles.
4. The office of District Attorney Jim Garrison in New Orleans has, under his direction, carried on (and continues to carry on) an extensive investigation of President Kennedy's assassination. Much of this evidence has been made available to the NCTIA.

This article concentrates on some of the photographic evidence and problems of computerized analysis. However, for the benefit of readers who would like to examine some of the other evidence, a few very important and interesting references will be mentioned next.

Four Important Reference Books

One valuable book is Six Seconds in Dallas, by Professor Josiah Thompson, a professor of philosophy at Haverford College, Haverford, Pa., published in 1968 by Bernard Geis and Associates, New York, 323 pages. Thompson made a thorough and competent analysis of the happenings during the six seconds when President Kennedy and Governor Connally of Texas were shot. With the cooperation of Life magazine during the first part of his investigation, he looked at the clear original of the Zapruder film. (After that, Life magazine locked the film up and denied any further access, until Garrison subpoenaed the film for the New Orleans trial of Clay Shaw.) Thompson showed that at least three gunmen shot at the President, and that one of the fatal shots came from the front and not the back.

Another impeccably scholarly book is Accessories after the Fact, by Sylvia Meagher, published in 1967 by Bobbs Merrill Co., Indianapolis, Ind., 477 pages. She presents a most thorough analysis of the gaps, conflicts, contradictions, and failures to investigate, that are clearly revealed by careful study of the Warren Commission Report and the 26 volumes of supporting documents.

A third important book is Inquest: the Warren Commission and the Establishment of Truth, by Edward Jay Epstein, published by the Viking Press, New York, N.Y., 1966, 224 pp. Epstein makes a pregnant remark at the beginning of his Chapter 9, "The major problem in the writing of the Report was the selection of the evidence. From the tens of thousands of pages of evidence, which facts were to be included and which facts excluded?" This book is an illuminating account of what actually did happen in the work of the staff of the Warren Commission, and why and how they could have reached the wrong conclusions.

A fourth significant book is Farewell America, by James Hepburn, published in Canada and in Belgium by Frontiers Publishing Co., Vaduz, Liechtenstein, 1968, 418 pp. (One cannot be sued in Liechtenstein.) This book is apparently based largely on information collected by certain former members of the French intelligence service, who penetrated the plot to assassinate President Kennedy. According to the book jacket, the author, James Hepburn, attended the London School of Economics and later graduated from the Institute of Political Studies in Paris. (However, "Hepburn" is a pseudonym.) The book gives a large amount of information about the plot to assassinate Kennedy, its background, and parallels in history. The book alleges that J. Edgar Hoover knew of the plot beforehand and did nothing to stop it. It also alleges that a Texas oil millionaire, some other oil men, some Texas and

Californian rightists, leaders of the Dallas city government, many members of the Dallas Police Department, and many members of the CIA, the FBI, and the Secret Service, all were involved in the plot. I do not agree with nor believe some of these allegations.

Appendix 1 of this book lists many "classified" documents in the National Archives of the United States, such as no. 931, a secret CIA document entitled "Oswald's access to information about the U-2" (the spy plane). Appendix 2 lists more references, entitled "reports, memoranda, and documents" such as "Dossier Richard M. Helms", "General Dynamics Dossier F 111" — but how to get access to these references is nowhere mentioned. Pages 308 to 324 contain a remarkable account of twenty years' activity by the CIA. Much of the information in the book is clearly true; other information is probable or plausible; some information is clearly in the category "possible but hard to believe" and by no means proved.

For reasons that may be guessed, this book is very hard to obtain in the United States but it can be bought in other countries. Although it has Library of Congress catalog no. 68-57391, at the Library of Congress it is "not available". Commercial importation of the book has been blocked by the U.S. Customs and the U.S. Post Office. A movie with the same title has been made by the publishers of the book; the movie, "Farewell America", has been shown in several European cities, but no copies of the film are so far available in the United States.

A number of important reference books are included in the partial bibliography at the end of this article. Among the more important authors are Harold Weisberg, Paris Flammande, Mark Lane, Rosemary James, Joachim Joesten, and Raymond Marcus. A fuller bibliography is available from the NCTIA.

The New Orleans Trial of Clay Shaw

One of the largest additional installments of new public evidence came out of three weeks of court testimony given in New Orleans, Feb. and March, 1969, when District Attorney Jim Garrison charged Clay Shaw with having a part in the conspiracy to assassinate President Kennedy.

The trial was accurately and very fully reported in The Times Picayune, Feb. 7, 1969 to March 2, 1969, the leading daily paper in New Orleans, published since 1847. The record of the trial as published in The Times Picayune contains many indications that:

1. Clay Shaw did know and meet with Lee Harvey Oswald (dead), David Ferrie (dead), and Jack Ruby (dead), and exchange money with them. Twelve witnesses saw them together in twos and threes, at various times and places.
 2. There were at least three gunmen in Dealey Plaza firing at President Kennedy on November 22, 1963, from at least two directions, and therefore there was a conspiracy.
- What Garrison failed to prove to the satisfaction of the New Orleans jury was that Clay Shaw was involved in the conspiracy in Dallas.

The Miami Police Tape

Among the pieces of new public evidence is the "Miami Police Tape." In September 1963, President John F. Kennedy gave a speech in Miami, Florida. Prior to this time a Miami police informer who had infiltrated the National States Rights Party interviewed one of its chieftains, a Mr. Milteer, in a hotel room in Miami. Unknown to Milteer the room had been bugged by the Miami police and the interview was taped. The informer drew Milteer out on

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the subject of assassinations. Milteer said that Jack Kennedy was going to be assassinated either in Miami or in some other city by individuals who were connected with right wing groups including the Minute Men and the National States Rights Party. He said it would be done with a high-power rifle from a high point in a city building and that a patsy would be picked up by the police afterwards. He said a man using the name Brown was the most likely one to do it. He added that Brown had been following Martin Luther King around the country for several months trying to assassinate him too.

The Miami police turned the information over to the FBI, who informed the Miami police that they had turned it over to the Secret Service.

Kennedy was well protected in Miami and exposed himself as little as possible, apparently partly as a result of the Secret Service receiving the information.

On the morning of November 22, 1963, Milteer telephoned the informer to say that Jack Kennedy was coming that day to Dallas, and would probably never be seen in Miami again. The informer interpreted this to mean that Kennedy would be shot in Dallas, and says that he reported this information to the Miami police. The Miami police in turn reported the information to the Miami office of the FBI.

After the assassination, the Miami police assumed that either the FBI or the Secret Service were following up on these leads. So the Miami police remained silent. When District Attorney Jim Garrison contacted them in late 1966, prior to public announcement of his investigation, the Miami police learned of Garrison's evidence about a conspiracy. They became very disturbed, and then decided in January 1967 to make the tape public. (Garrison's investigation did not become public until February 1967.) The Miami tape was played for a group of newsmen in the Miami police headquarters in January 1967. Stories about the tape appeared in several newspapers, but not in The New York Times nor in other leading newspapers, in spite of the importance of the story.

The FBI and the Secret Service had all the above information from the Miami police prior to the formation of the Warren Commission. Yet none of the above information appears in the Warren Commission Report, in the 26 accompanying volumes, or in the Warren Commission archives which have been made public.

Oswald's Message to the FBI

Among other evidence collected by Garrison (and confirmed by Mark Lane) is the fact that Oswald telephoned the Dallas, Texas, office of the FBI on November 20, 1963, and told them that President Kennedy was going to be assassinated on November 22. An FBI teletype message was sent that day to J. Edgar Hoover with that information. A repeat teletype message with that information was also sent on that day to the New Orleans office of the FBI, apparently because of Oswald's former presence in New Orleans.

A clerk in the New Orleans office of the FBI revealed the existence of the teletype message, and gave a deposition to that effect to Garrison. He also revealed the existence of that teletype message to Attorney Mark Lane after Garrison's investigation was made public. No statement about this message appears in the Warren Commission Report, in the twenty-six accompanying volumes, or in the Warren Commission Archives.

The Radio Communicator

One of the interesting events prior to the trial of Clay Shaw in 1969 was the finding of a man named

Jim Hicks. He showed up voluntarily in Garrison's office. Garrison and one of the researchers, Jones Harris, suddenly realized that they had seen his picture before, as one of the persons in Dealey Plaza near the time of the fatal shooting (See Fig. 11). Hicks admitted that he was the radio communicator among the rifle teams since they were out of sight from each other, and of course each team would need to know what was going on. Jim Hicks had set up a communications center at the Adolphus Hotel prior to the assassination. The photograph Harris had seen is a picture of Jim Hicks in Dealey Plaza just after the shots, with his radio in his left rear trouser pocket and antenna hanging down outside. (See the foreground of Figure 11.)

Since the time of his admissions, Jim Hicks has been locked up in an Air Force Hospital for the insane located in Oklahoma.

Strange Events

In the Warren Commission's activities, there are many strange events, extraordinary patterns of behavior, and important unanswered questions to which the Warren Commission paid almost no attention. There are more than 50 instances of these strange events — where the Warren Commission did not look, or looked aside, as if they were trying not to see. Among these are the following:

1. Crucial records were burned or destroyed. For example, Commander J. J. Humes, chief autopsy surgeon, personally burned in his fireplace on Nov. 24, 1963 his preliminary draft of the autopsy report. The Warren Commission accepted this action as natural.
2. Crucial physical evidence was destroyed, as in (a) washing of Governor Connally's bullet-penetrated clothing, before it was examined by the Commission's staff, and (b) the prompt rebuilding of the presidential limousine, so that it could no longer be examined for bullet marks; etc. The Warren Commission accepted these actions without questioning.
3. The Warren Commission did not examine the autopsy X-rays and photographs of President Kennedy. In fact, the photographs were not even developed until two years after President Kennedy's death. The Kennedy family and Burke Marshall, their lawyer, assisted in locking them up.
4. The Warren Commission accepted the sudden appearance of a pristine bullet (Commission Exhibit 399) fitting Oswald's gun, on the wrong stretcher in Parkland Hospital, and the Commission assumed that it "fell" out of Governor Connally.
5. The Warren Commission (in an admitted error) published Zapruder frames 314 and 315 in reversed order, so that the motion of JFK's head after the fatal shot was reversed.
6. The Warren Commission ignored the visible and violent backward motion of President Kennedy's head shown in the Zapruder film at the instant of the fatal shot — a motion that conclusively shows that the President was fatally shot from the front.
7. The Warren Commission failed to investigate many possible motives for shooting President Kennedy, and who would profit thereby. Etc.

Perhaps the strangest of all the events are some events that took place after the Warren Commission made their report:

1. President Lyndon B. Johnson issued an executive order locking up in the Archives of



Figure 11

View of Dealey Plaza shortly after the assassination, showing Jim Hicks, the radio communicator among the firing teams, in the foreground, with radio in pocket, and "S"-shaped antenna hanging down. (Table 3, No. 87)

DILLARD, GUYTON, LINDBERG, ETC



Handwritten notes: "The Warren Commission" with a bracket and question mark.

the United States for 75 years as "confidential, secret, and top secret," over 100 important relevant reports and memoranda. The list of the titles of these extraordinary documents was obtained and published in the Saturday Evening Post on April 6, 1968.

- 2. Chief Justice Earl Warren has steadily refused to consider any new evidence. As recently as 1969 he told newsmen, "I know of no new evidence, and have seen no new evidence." It is a fact that such new evidence exists in large quantities. This strange attitude may be coupled with Warren's steady silence in response to letters.

No scientist, no honest man, ever refuses to look at new evidence. The kind of action which locks away old evidence, and refuses to look at new evidence, is not the kind of action of honest scientists and honest men.

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Basically, the Warren Commission picked up the Dallas police hypothesis, that Lee Harvey Oswald was the sole assassin and there was no conspiracy. Once they chose this hypothesis (and they chose it very early), they assiduously tried to confirm it, partly by selecting evidence, partly by suppressing information which they knew, and partly by altering evidence to the opposite — in other words, falsifying evidence. Their candidate for assassination vehemently denied (for two days before being killed by Jack Ruby) participating in or knowing about the assassination of President Kennedy. He also positively stated that he had been made a patsy, a fall guy. He also said that the photograph of him holding a rifle was a fake, saying, "That's my head but not my body." (That photograph is demonstrably a fake.)

Handwritten notes: "How? Who? What?"

Over 50,000 items of evidence exist which support and mutually confirm a contrasting hypothesis. This hypothesis is that there was a conspiracy, and that at least four persons shot at President Kennedy, and that more than 50 persons were involved in the conspiracy. In fact, about 6 persons who participated in the conspiracy have admitted their participation and described what happened in their own involvement. All of these items of evidence collected confirm the information in all of the photographs, and are very largely consistent. I do not allege that the CIA, the Secret Service, Lyndon B. Johnson, and certain other prominent individuals participated in the conspiracy before the assassination occurred.

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I do assert that these individuals and agencies, after the assassination occurred, participated in covering up and concealing the conspiracy and thereby became accessories after the fact. The evidence referred to is available under appropriate circumstances to an untainted Congressional investigation.

Part 2. The Photographic Evidence

Over 510 Photographs

The assassination of President John F. Kennedy was the most photographed murder in history. Approximately 75 photographers took a total of approximately 510 photographs, either before or during or within an hour after the events in Dealey Plaza, and either there or nearby or related to those events. The word "photograph" in this context includes both still photos and movie sequences. The number of frames in a movie sequence ranges from about 10 to about 500; and in the count of 510 photographs given above, the 10 to 500 frames of a single movie sequence are counted just as one photograph. The total number of frames is over 25,000.

The Warren Commission examined 26 photographs, about 5 percent of the 510. The FBI examined about 50 photographs, or about 10 percent. The most famous of all the photographs is the Zapruder film, which had over 480 frames.

Many of the photographs were taken by professional photographers. About 30 of the photographers were professionals who worked for newspapers, television networks, and photographic agencies.

The Warren Commission did not interview a single one of the professional photographers, nor did the Warren Commission see any of their photographs.

Fifteen of these professionals were actually in the Kennedy motorcade, no further than 6 car lengths behind the Kennedy car. Five of these photographers were television network cameramen. The Warren Commission looked at none of their photographs.

Two of the photographers were from the White House. One of these men (Thomas Atkins) was the regular photographer for the White House. He made a special film for Lyndon B. Johnson. Atkins used his own film plus some footage obtained from the television photographers. Johnson looked at the film and then put it away. This film is now stored with the Kennedy Memorial Library materials in a warehouse in Washington, D.C.; it is stated to be "unavailable" to researchers. The Commission did not see this film, nor did they interview Atkins.

Because the professionals used movie cameras of professional quality, their films are exceedingly revealing and valuable as primary evidence. The Warren Commission looked at none of these films.

During the past several years, I have collected copies of over 200 of these photographs, and I have looked at and taken notes on another 200 of these photographs, without obtaining copies of them. Some of the remaining 100 have either not been found or have been locked up or destroyed by the owners, who are fearful of the information they show. Or they have been locked up by the FBI, who have either placed them in files inaccessible to the public or possibly have destroyed them. (See Table 2.)

Chart 2 of this article shows the times of about 50 of the photographs taken in Dealey Plaza during Kennedy's passage through it.

Table 3 of this article lists over 510 photographs so far identified and known to exist or to have existed — with possibly a few borderline cases.

Most of the "official" photographs of the Warren Commission, or of the FBI, or of the Dallas Police, which are in the Warren Commission Report or in the 26 volumes of the Warren Commission's Evidence and Hearings, are not included in the list of Table 3, because such photographs were taken more than one hour after the shots were fired.

The 6th Floor Easternmost Window

According to the Warren report, Oswald was supposed to have fired a rifle from the 6th floor easternmost window of the Texas School Book Depository Building. (See Chart 1) Among the photographs there are several that show this window. Accompanying this article are copies of two photographs, one showing this window exactly 5.7 seconds before the first shot and one showing this window exactly 3.5 seconds after the last shot. (See Figs. 6 and 7) The first photograph (Table 3, No. 8) was taken by photographer Hughes, and shows the window with only a box appearing in it. The second (Table 3, No. 121) was taken by photographer Dillard and shows the window with only the box in it. There is a photograph taken by Norman Similas taken during the shooting which is now in the possession of the FBI (see Tables 2 and 3, No. 494). A possible reason for the FBI not to reveal or display this photograph is that it was taken between the first and the last

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shadow of a doubt, that only the force of a high velocity bullet striking Kennedy's head from the front could produce the head acceleration backward shown in Zapruder frames 313 through 315, and measurable therefrom.

More than a dozen other photos confirm that there were more than three shots.

Other Activities at the Time of the Shots

The photographs taken at the time of the shots (see Chart 2) show many other significant and important activities. Coupled with the testimony of photographers and other witnesses, the photos prove the Warren Commission wrong on several other points. To describe all of these points in detail requires more space than is here available. But the following list summarizes these activities and conclusions (see also Chart 1 for timing and direction of shots).

- a. The first shot, fired by man #1 from behind the fence on the grassy knoll, hit Kennedy in the throat at Z189 (Z numbers in the text and on the Map refer to frame #s of the Zapruder Film. The frames were 1/18 second apart. The Z numbers on the map show the location of Kennedy in each Zapruder frame).
- b. The second shot, fired by man #6 from the second floor window of the Dal Tex Building, struck Kennedy in the back at Z226.
- c. The third shot, fired by man #8 from the Texas School Book Depository (TSBD) hit Connally in the back at Z238.
- d. The fourth shot fired by man #6 from the Dal Tex Building struck the curb on the south side of Main St. at about Z285.
- e. The fifth shot fired by man #8 from the TSBD hit Kennedy in the head at Z312+.
- f. The sixth shot fired by man #5 from the grassy knoll hit Kennedy in the head at Z313.
- g. Man #2 "created" a puff of smoke as an apparent diversion (as it turned out, the diversion was not needed) and then ran back beyond the position of man #1 and jumped over the fence.
- h. The timing of the first shot established by three photos — Zapruder, Willis (Table 3, No. 85), and Betzner (Table 3, No. 101) — to be Z189, was such that the view of Kennedy from the sixth floor easternmost window of the TSBD, was completely obscured by a large oak tree. (Bill on Chart 1)
- i. A man who looked very like Oswald ran down the grassy knoll ten minutes after the shots were fired and drove away down Elm St. with a Latin-appearing man in a light-colored station wagon with a luggage rack. To someone not familiar with all of the millions of details of the Kennedy assassination, this seems unrelated. However, other evidence indicates the man may have been an anti-Castro adventurer impersonating Oswald, and that the Latin may have been another of the anti-Castro Cubans.

Men Who Ran Away

Many photographs were taken within an hour after the shots, which show that certain men on the grassy knoll ran away after the firing, and these photographs show how they ran away.

For example, several photographs (Table 3, Nos. 3, 19, and 52) show a certain man, who has been

labeled for the present as Man #5. He is apparently the man who fired the fatal shot, shot No. 6. His position has been shown on the map in area D6. The photos show that he escaped by means of a white car, which had been previously parked just a few feet from his position.

This subject has been investigated at length by the researchers, but the investigation has not been finished. It may be that the investigation cannot be adequately concluded until computerized analysis of the information in the photographs (see Part 3) has progressed much further.

The photos also show where and how men #2,3 & 4 ran away after the shots.

The "Tramps" and the "Phoney Policeman"

Approximately a half hour after the shots were fired, Sergeant D. V. Harkness of the Dallas Police was instructed by Inspector Sawyer of the Dallas Police (in command of Dealey Plaza police activities after the assassination) to go back to the railroad tracks (see Map and Fig. 1) and stop a freight train which was being moved out and search it. (The approximate time is established by the angles of the shadows in the photographs, by the testimony of Sergeant Harkness to the Warren Commission, Vol. 6, p. 312, and by the timing of Wm. Allen's sequence of photos.) The area where the freight cars were located is to the north and west of the TSBD, and north of the grassy knoll area.

Sergeant Harkness says he arrested some "tramps" or "hoboes" whom he found in one of the box cars in the railroad area. He says he took them to the station and does not say what station he meant. However, Sheriff Elkins said that a policeman brought three "tramps" into the Sheriff's office. (See map and Fig. 1.)

The route that Harkness would naturally take if he went to the Sheriff's office with the three "tramps" is exactly the route portrayed in the series of four photographs (Figs. 2,3,4, and 5), shown in this article. In Figs. 2, 4 and 5, two policemen can be seen escorting three "tramps" eastward from the direction of the railroad yards along the Elm Street extension in front of the TSBD. They turn south in front of the TSBD (Fig. 4) and proceed down Houston St. to the Sheriff's office. The vehicle entrance to the office is located at the center of the block on the east side of Houston St. between Elm St. and Main St. The entrance is directly in front of the five men as they proceed toward it in Fig. 5.

Why is this significant? First, there is no record at all of the arrest of these men — there is no record of their official booking nor of their release, even though Sheriff Elkins testified that he turned them over to Captain Will Fritz of the Dallas Police in the police station. Furthermore, there is no record in the Dallas police force of the "phoney" policeman at the right in Fig. 2. He is wearing non-regulation shoes or possibly rubbers; and in his right ear is either a radio communications device or a hearing aid.

Sergeant Harkness and Sheriff Elkins both indicate there was no other policeman with Harkness when he arrested the "tramps" and when he turned them over to Elkins.

Other information indicates that one or more of these "tramps" were members of right wing groups and were actually included among the gunmen who shot or shot at President Kennedy. If any reader of this article notices any person resembling any one of the "tramps" or the "phoney" policeman, it would be useful for him to send information to me.

(Text continued on page 50)

W
W See 43
Where?
How shot?
Where
?
In question about it?
I think
O N D

From where

?

Path taken by Harkness with "Tramps"



Grassy Knoll

Vehicle entrance to Sheriff's Office

Figure 1

Helicopter view of Dealey Plaza and its buildings, with the path of the arrested "Tramps" marked. Numbers on the photograph indicate where photographs in Figures 2, 3, 4 and 5 were taken.

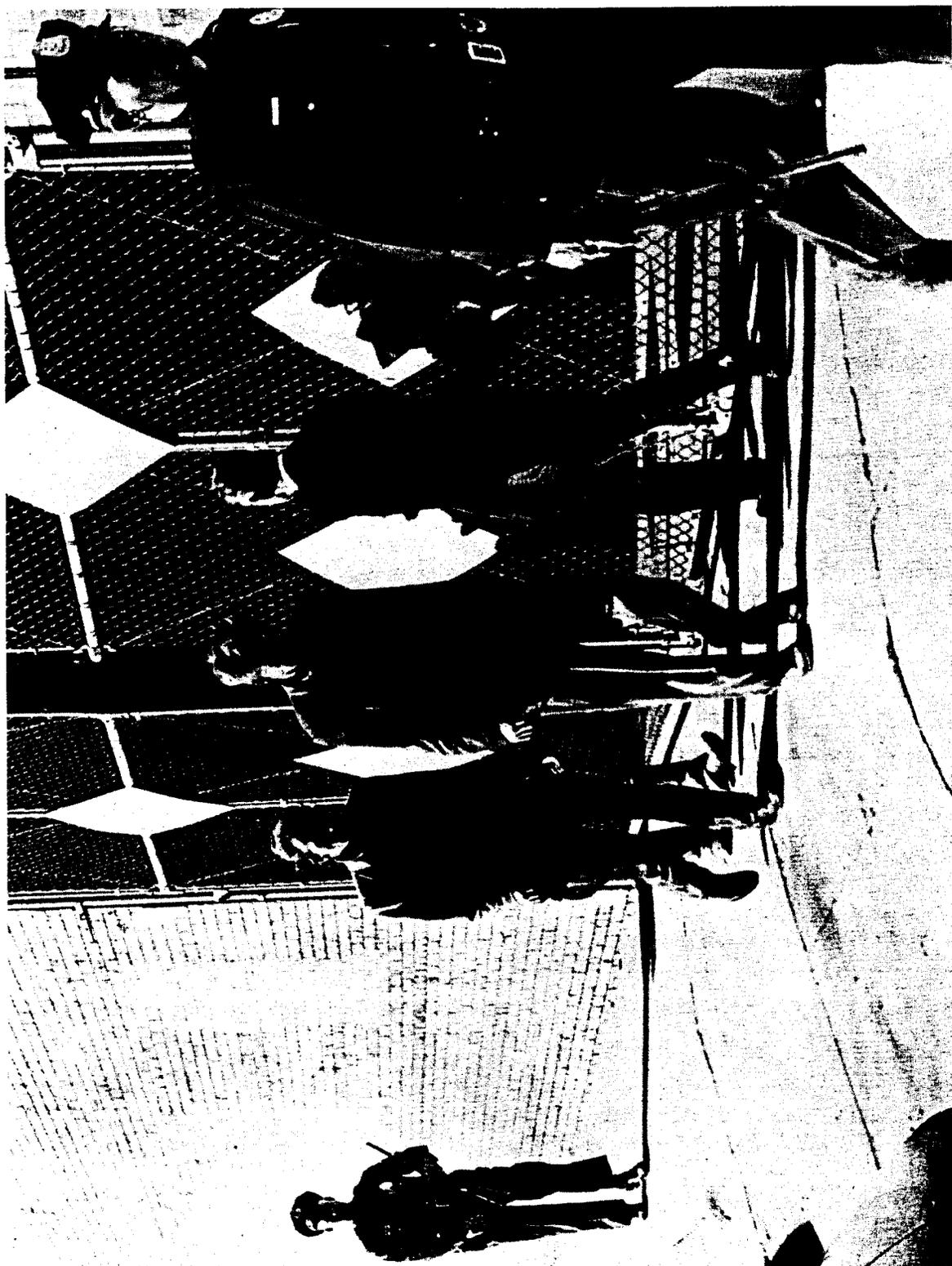
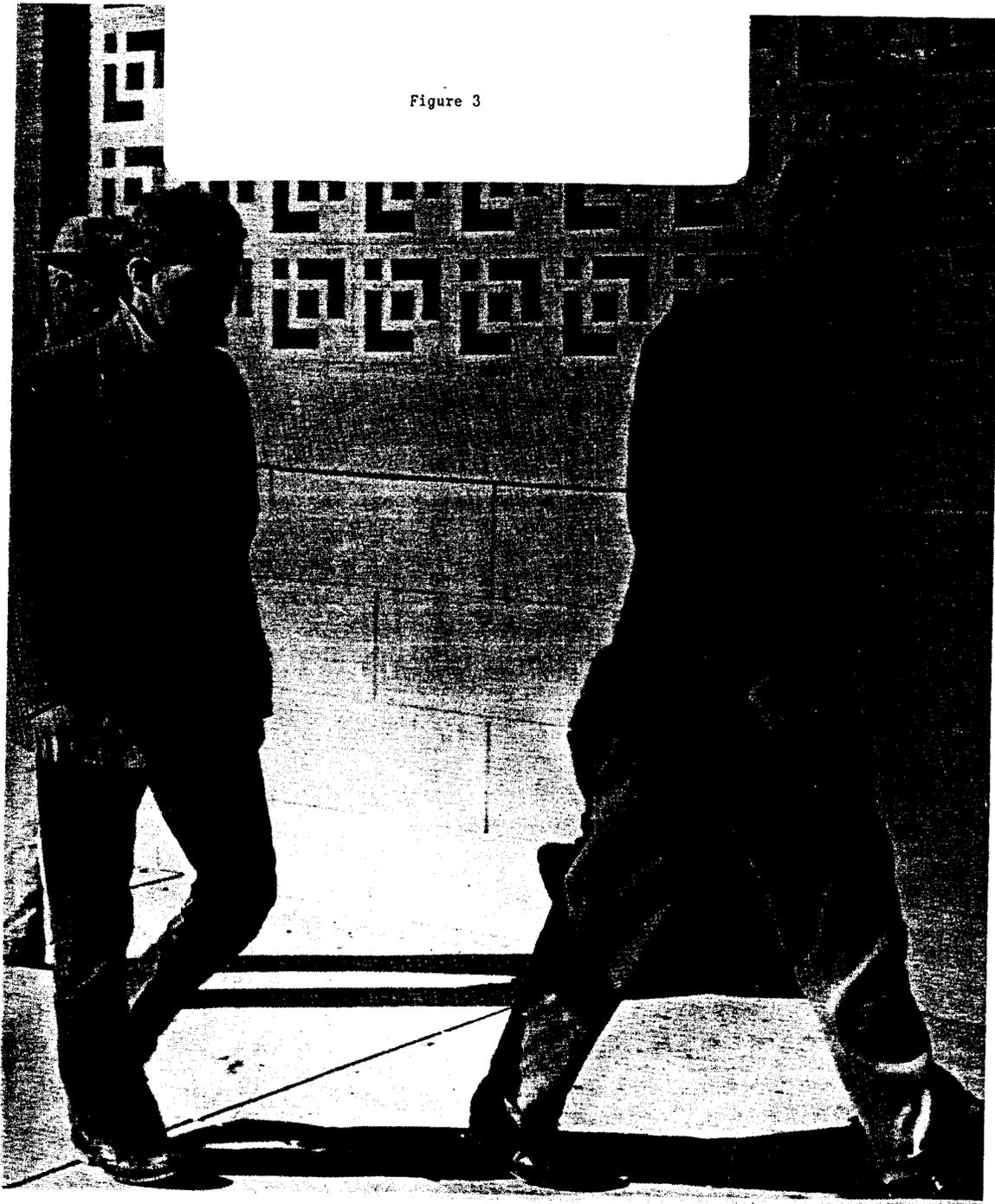


Figure 2

Figure 3



Figures 2, 3, 4 and 5

These four pictures of the "Tramps" and various policemen were taken by George Smith and William Allen (see Table 3, Nos. 195, 197, 251 and 252). Sergeant Harkness appears in Figures 2, 4 and 5 (at the left in Figures 2 and 4, and in the front in Figure 5). The "Phoney" Policeman also appears in these same three figures (at the right in Figure 2, and at the rear in Figures 4 and 5). There is no record of this man being a member of the Dallas Police Force. He is the only Dallas policeman of those appearing in the hundreds of photographs taken Nov. 22 who is wearing an earpiece or radio communication device in his right ear (see Figure 2). Why? He is the only one who is wearing rubbers. Why? His pistol handle appears to be different from Harkness' pistol. Why? It would be interesting to discover this man's identity, and ask him some questions.

*How
know?*

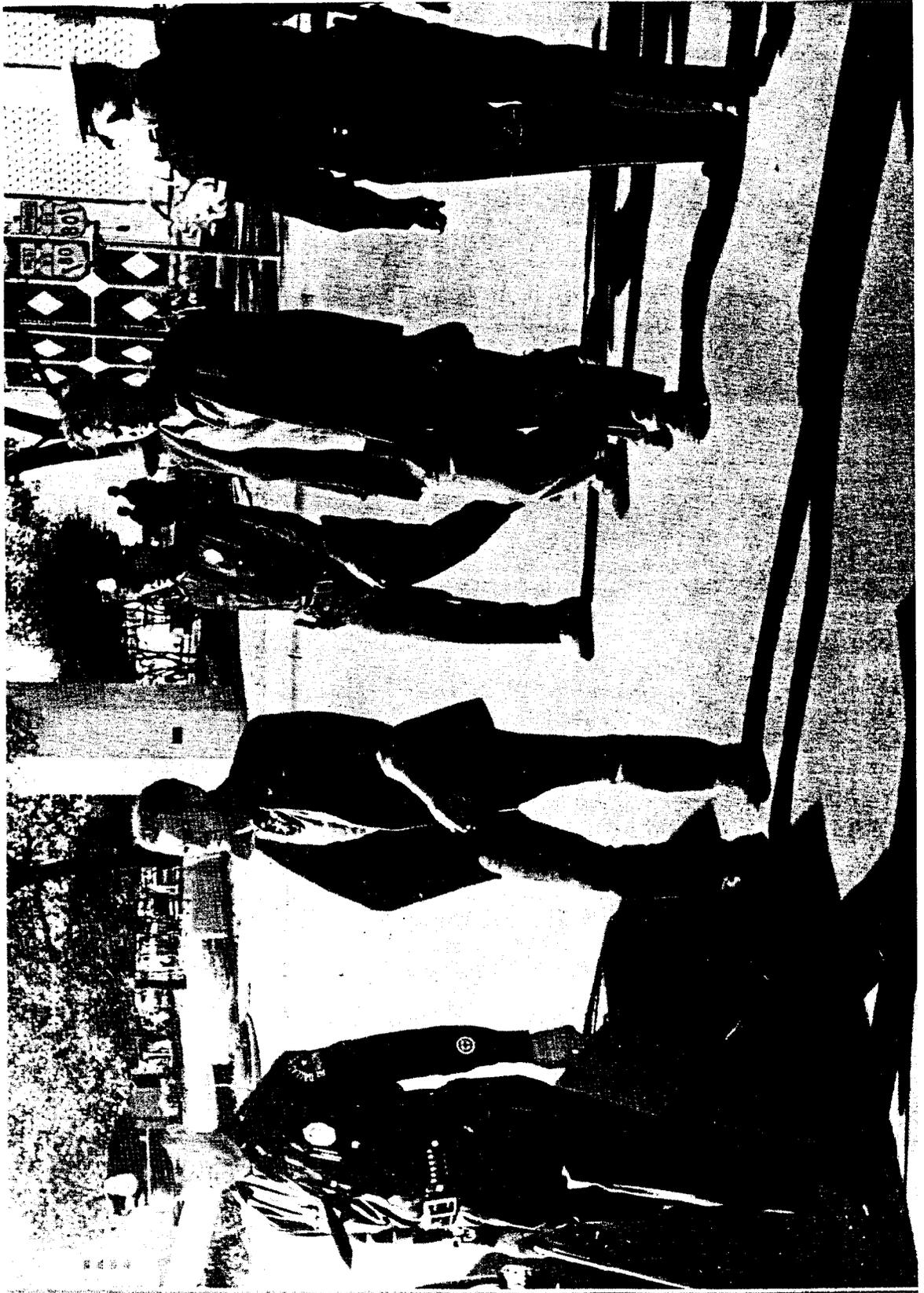


Figure 4

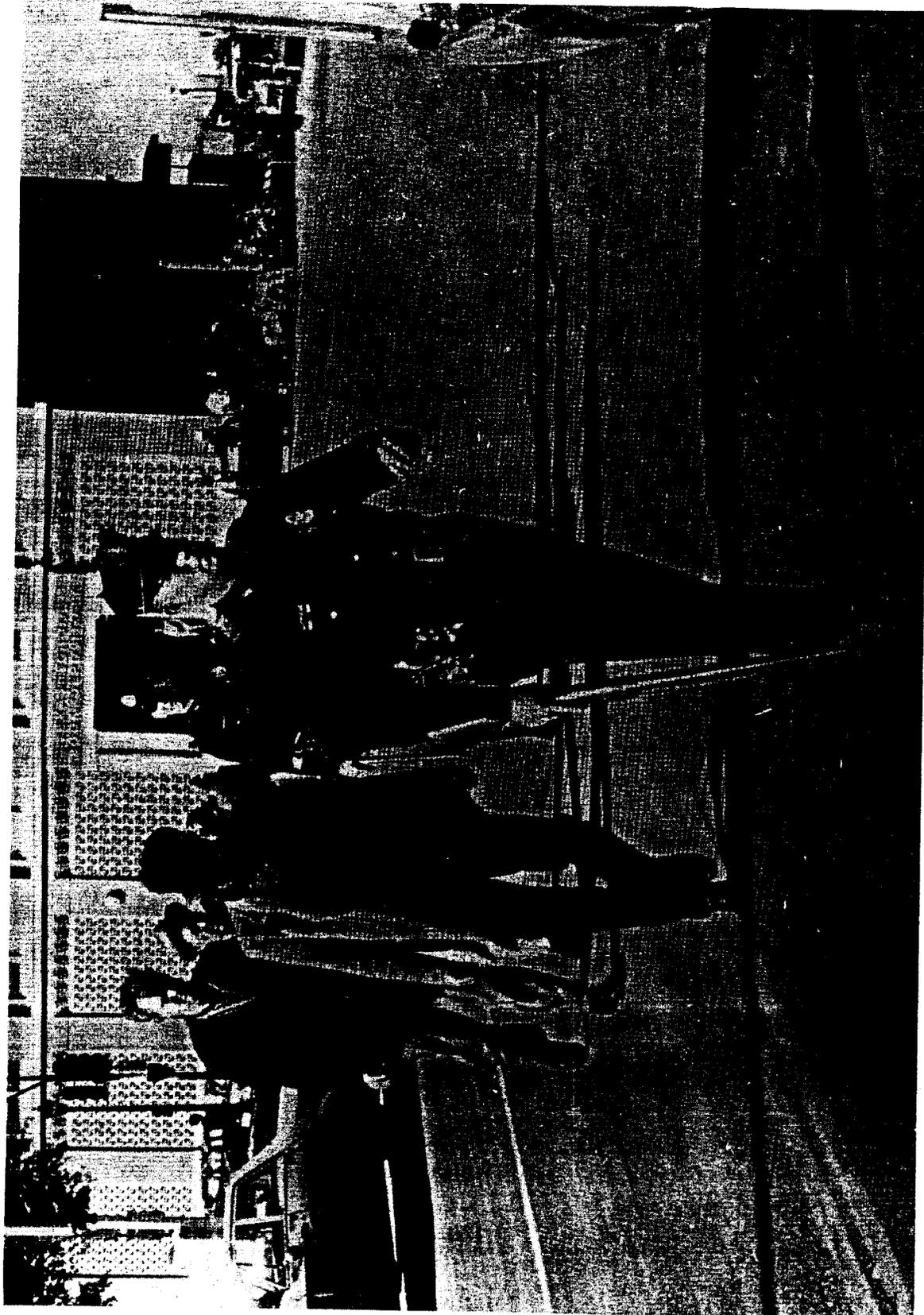


Figure 5

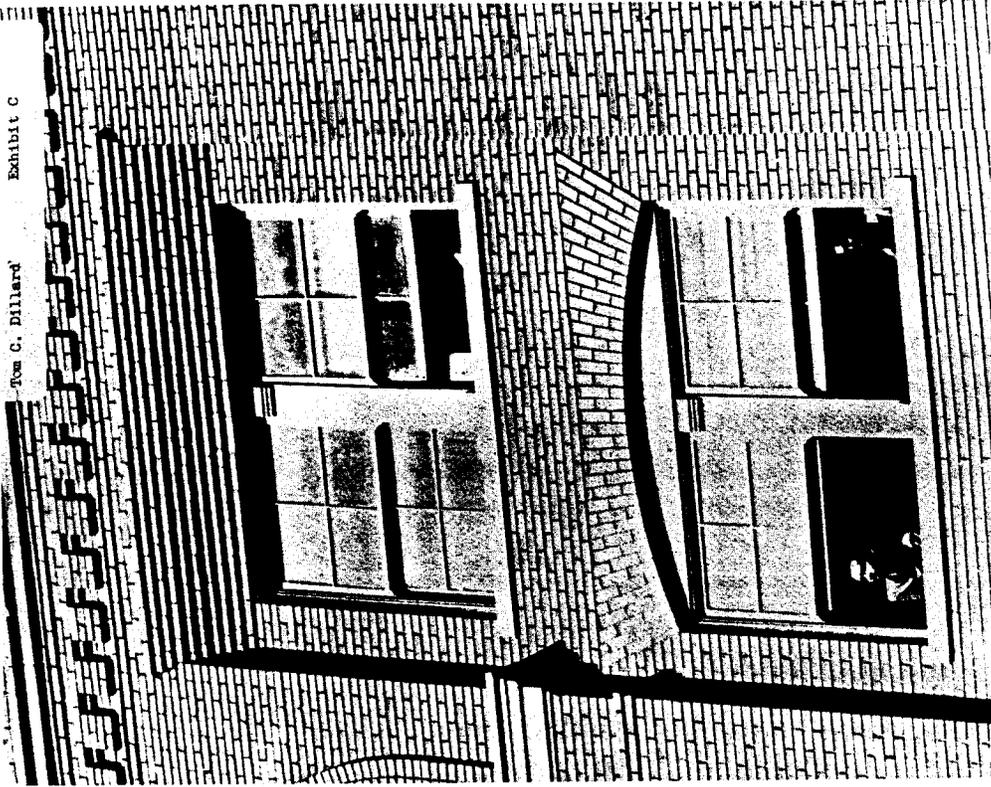


Figure 7

The 6th floor eastermost window of the Texas School Book Depository Building, taken 3 seconds after the shooting, showing no one there. (Table 3, No. 121)



Figure 6

The 6th floor eastermost window of the Texas School Book Depository Building, taken 5.7 seconds before the shooting, showing the window less than one quarter open. (Table 3, No. 8)



Figure 8

John F. Kennedy on Elm St. about the time of the first shot, Z 186 (Table 3, No. 101). The umbrella belonging to the "Umbrella Man" can be seen at the lower left of the Stemmons Freeway sign. Man #2 can be seen behind the wall to the left of that sign.

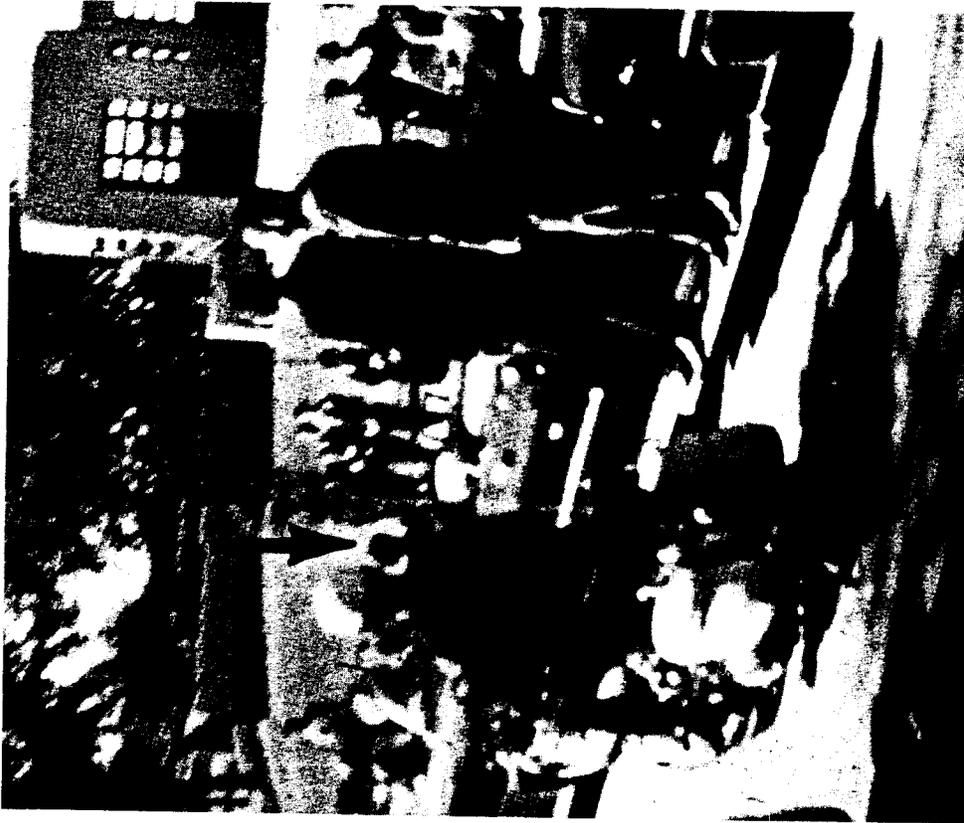
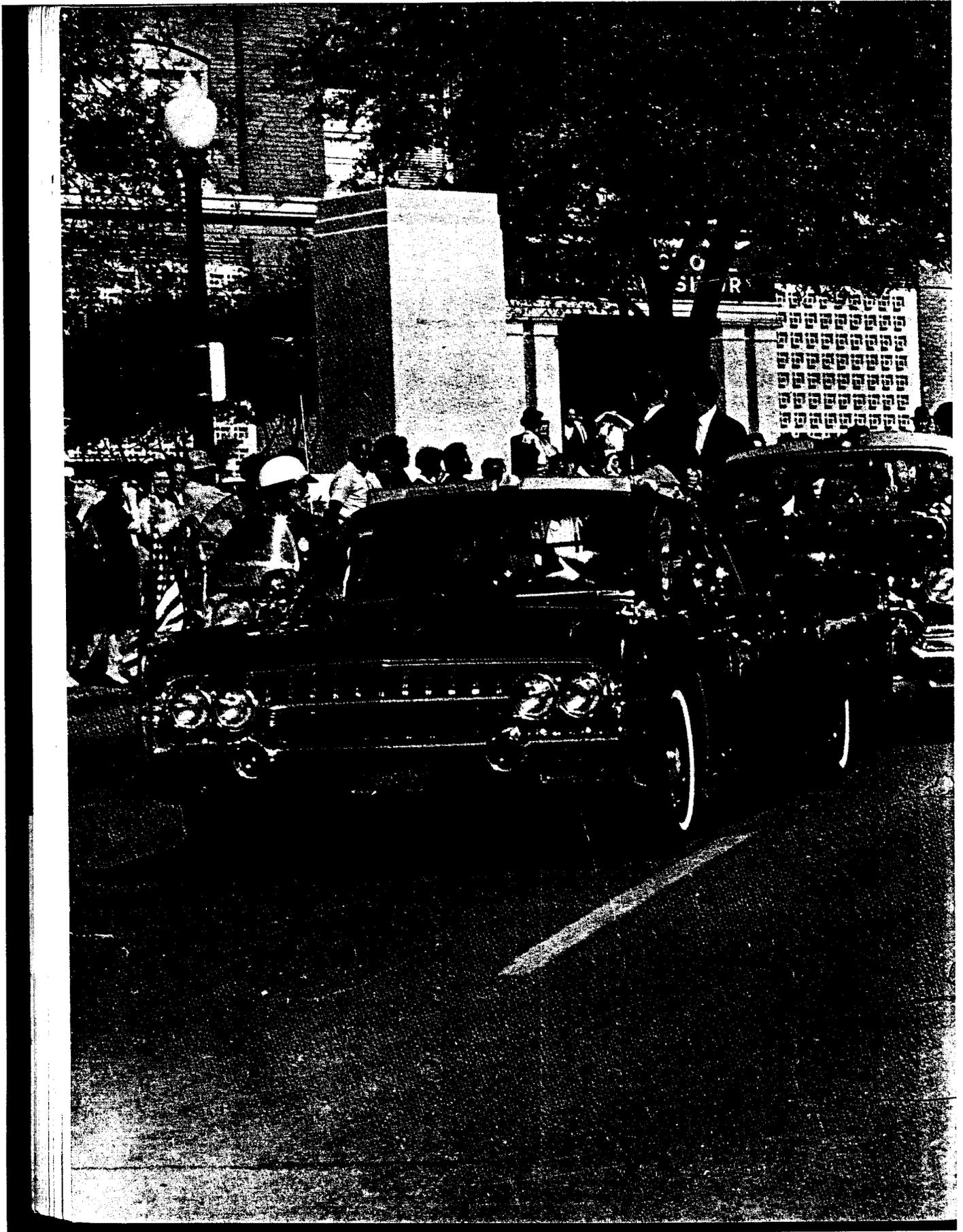
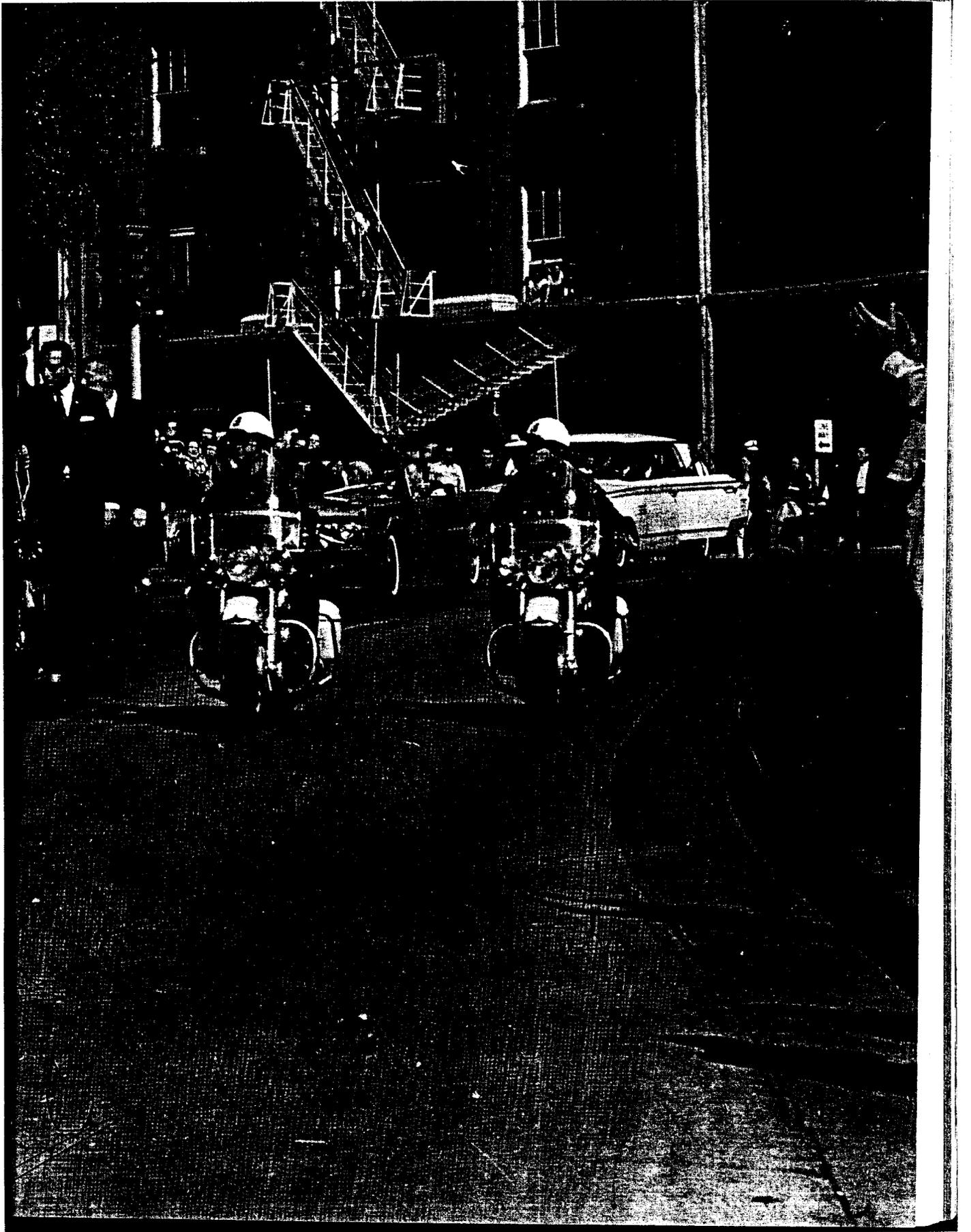


Figure 9

John F. Kennedy after the first three shots and before the fatal shot, Z 202 (Table 3, No. 85). The "Umbrella Man" can be seen at the lower left of the Stemmons Freeway sign, and Man #2 can again be seen at the left of that sign.

See





SPATIAL CHART of NORTHERN HALF of DEALEY PLAZA

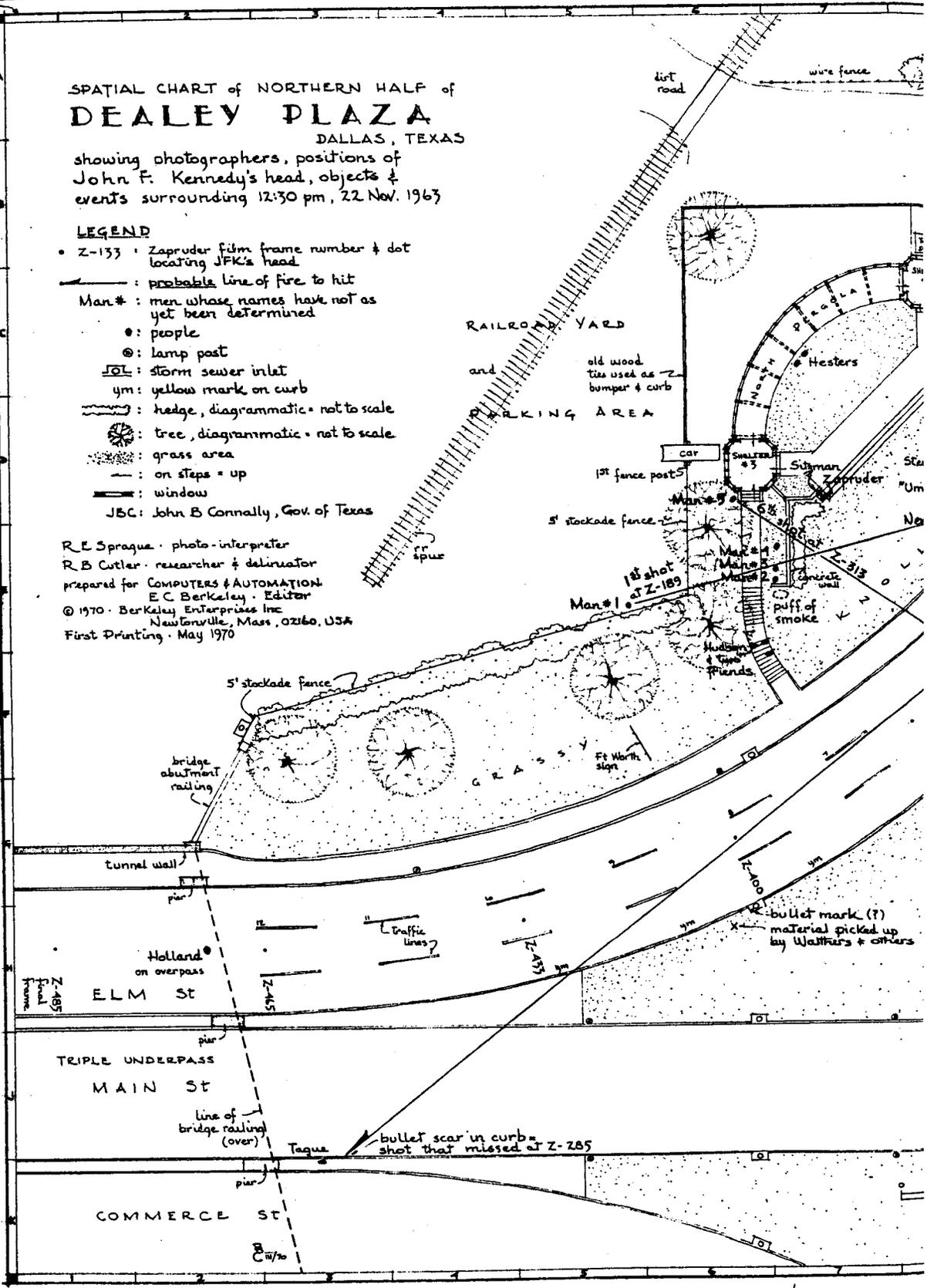
DALLAS, TEXAS

showing photographers, positions of
John F. Kennedy's head, objects &
events surrounding 12:30 pm, 22 Nov. 1963

LEGEND

- Z-133 : Zapruder film frame number & dot locating JFK's head
- : probable line of fire to hit
- Man # : men whose names have not as yet been determined
- : people
- ⊙ : lamp post
- JOL : storm sewer inlet
- ym : yellow mark on curb
- : hedge, diagrammatic - not to scale
- ⊙ : tree, diagrammatic - not to scale
- ⊙ : grass area
- : on steps = up
- : window
- JBC : John B Connally, Gov. of Texas

R E Sprague - photo-interpreter
R B Cutler - researcher & delineator
prepared for COMPUTERS & AUTOMATION
E C Berkeley - Editor
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First Printing - May 1970



The "Umbrella Man"

Some interesting things happen when one begins to analyze the many pictures taken by different photographers from different directions standing in different places, but all taken in the same small interval of 10 or 15 seconds, and all in the same small area of Dealey Plaza and its environs.

One of the things that happens is that the pictures confirm each other, and show what people were doing.

One outcome of the analysis is that we see other persons who also were taking pictures; then they too can be identified and located, and their pictures also can be found, and copies of their pictures can be obtained from them also.

An example of a result of even further analysis of the pictures in three dimensions of space and one dimension of time is that we discover the story of "the man with the umbrella".

When we first see the "man with the umbrella", he is holding it closed. This is when the Kennedy car rounds the corner from Houston St. into Elm St. Next he is holding it open and low over his head; the time is shortly before the first shot (see Fig. 9). Note that the weather is sunny, "slight breezes and gusts"; it is a sunny November day in Dallas; the time is noon; the temperature is 68° Fahrenheit, and there is no ordinary reason at all for holding an open black umbrella over one's head. The rain that had occurred earlier in the morning stopped about ten twenty, and the temperature is not high enough to be shading oneself. No one else in all of Dealey Plaza appears to have been holding an open umbrella. Next, he raises the umbrella, still open, high up, about two feet higher; this is shortly before the last shot and the umbrella shows up in the Zapruder film. A few seconds after the last shot, we see him holding the umbrella folded (Table 3, No. 259). Then a few minutes later, we have three pictures of him, still standing in the same place, still holding the umbrella folded up. (Table 3, Nos. 48, 49, and 50) Whereas everybody else in that area has dispersed rapidly, he is still standing in the same place, looking in all directions. He has stood in a position to have been seen from all the places from which shots were fired. Yet he is in front of the Stemmons Freeway sign — so that people on the western side of the sign can't readily see him, and people in front of the sign are facing away from him.

We can draw two tentative conclusions:

1. Visual coordination as well as radio coordination of the firing teams was necessary, because of the separation of the team members by several hundred yards, the noise and confusion of the motorcade, and the crowd of spectators. The "man with the umbrella" might be the visual coordinator.
2. Also, it was likely that an on-the-scene commander was required in order to make the last-minute go-no-go decision. This man may have been the on-the-scene commander.

The Warren Commission did not see the "umbrella man" in the photographs, did not find him, did not interview him, and did not enter him in any of its records anywhere. Neither did the FBI nor the Dallas authorities. Again, one asks why? It was a reasonably simple matter for an amateur to find him in the photographs. Josiah Thompson found him and mentioned him in his book, Six Seconds in Dallas (see pages 227-228). Thompson even appealed for him, if innocent, to come forward and identify himself. That, so far, has not happened.

Why?

2

?

Table 2

SOME IMPORTANT PHOTOGRAPHS ACQUIRED BY THE FBI AND UNAVAILABLE

Main List No.	Type*	Name of Photographer	Roll and Sequence No.	Subject	Time
51	PB	Mary Moorman <i>she has</i>	1	TSBD sixth floor window, before Kennedy rounded the corner	10 to 15 sec. before shots
93	PB	Willis <i>Willis has</i>	13	Man arrested outside of the Dal-Tex Building	within 20 min. after the shots
375	PB	Foley	1	TSBD sixth floor window, with two men in the window, neither of them Oswald	about 10 am. Nov. 22, 1963
376	MB	Babushka Lady <i>How do we know they came out off?</i>	1	Movie of JFK procession (from the other side of the street from Zapruder)	about 10 to 17 sec. before until 7 to 10 sec. afterwards
378	PB	James Powell, Army Intelligence, Dallas	1	TSBD	about the time of the shots
494	PB	Similis	1	TSBD, showing the sixth floor window empty except for box	between first and last shots
495	PB	Similis	2	Kennedy further down on Elm St.	about 22 sec. after the shots

*P = still photograph; M = movie; B = black and white

The "Babushka Lady's" Movie

As mentioned above, the pictures show other persons also taking pictures. One of these other persons has been called the "Babushka lady" because she is wearing a babushka (a triangular head scarf). She took a movie as did Zapruder, but she took hers from the left hand side of the motorcade; and she was able to take all the scenes beginning with the rounding of President Kennedy's car from Houston St. on to Elm St., and ending with the dead president's limousine passing under the overpass to go to the hospital.

Her movie would be particularly valuable for it would probably show all that was going on on the grassy knoll.

She may have been Mrs. Beck, at the time a student at the University of Michigan at Ann Arbor, who was visiting in Dallas. After her movie was developed, Mrs. Beck talked about it to the Detroit Free Press. Then the Detroit FBI attempted to find her. The information at present stops there. However, from observing similar actions of the FBI, one would suspect that they found her, obtained her movie, and either destroyed it or filed it away unavailable to researchers. (See Table 2.)

Until it can be confirmed that the "Babushka Lady" is Mrs. Beck, their films are listed separately in Table 3 (Nos. 376 & 500).

who saw it?

Some Other Conclusions

A great many other conclusions can be drawn from or are significantly supported by the photographic evidence. A few examples are:

1. About ten men are shown being arrested.
2. At least two other rifles are shown being found before Oswald's rifle was found.
3. "Oswald" is shown in two fake photographs with him holding a rifle. When Oswald was shown the photos he said, "That's my head but somebody else's body." That Oswald was right in this case has been clearly demonstrated by Fred Newcomb, a Los Angeles researcher.

4. Oswald did not shoot Officer J. D. Tippit of the Dallas police force; two other men did. Oswald was not near the shooting site at the time.
 5. Oswald's supposed discovery and arrest in the Texas Theatre, the movie theater where he went, was staged and prearranged.
- Continuing analysis and continued searching for more photos will no doubt produce new conclusions and findings for some time to come.

W

(Text continued on page 56)

Chart 2

SCHMATIC TIMING CHART OF PHOTOGRAPHS, MOVIES, AND EVENTS
IN DEALEY PLAZA AROUND 12:30 PM NOVEMBER 22, 1963

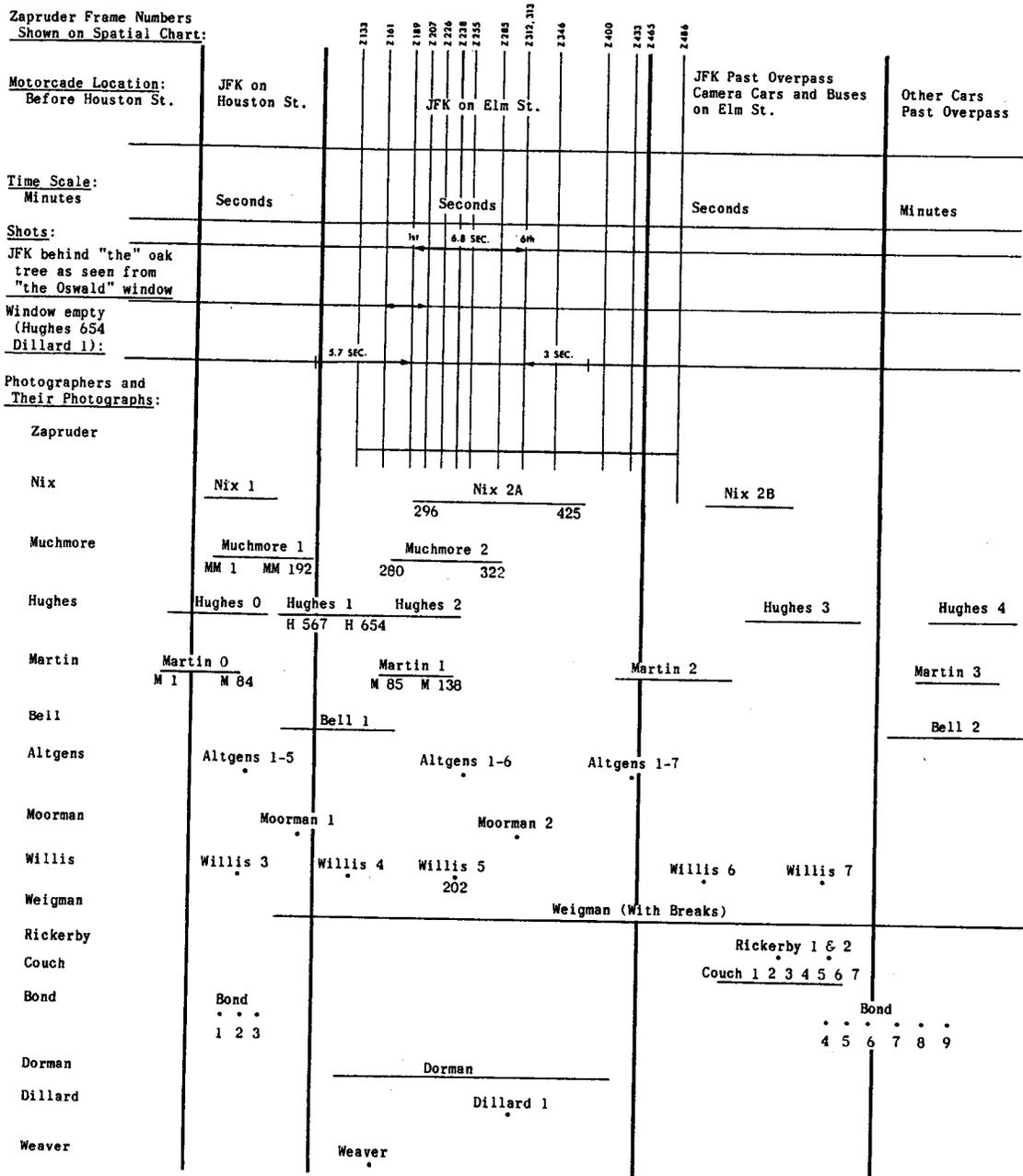


Table 3

MAIN LIST OF OVER 500 PHOTOGRAPHS AND OVER 75 PHOTOGRAPHERS

Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows	Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows
1	MC	Zapruder, 1	1	JFK on Elm-Houston St. to Overpass	68	PB	Altgens	2-20	TSBD from same position 5:19 PM
2	MC	Nix, 2	1	JFK on Houston St. before shots	69	PB	"	3-7	TSBD from center of plaza 5:07 PM Clock shows
3	MC	"	2A	JFK on Elm St. just before, during & after head shot	70	PB	"	3-8	TSBD from center of plaza
4	MC	"	2B	Grassy knoll and cars on Elm just after head shot	71	PB	"	3-9	TSBD from center of plaza
5	MC	Muchmore, 3	1	JFK on Houston St.	72	PB	"	3-10	TSBD from center of plaza
6	MC	"	2	JFK on Elm just before, during & after head shot	73	PB	"	3-11	TSBD from center of plaza
7	MC	Hughes, 4	0	JFK on Houston from Main St. 2/3 of way to Elm	74	PB	"	3-12	TSBD from center of plaza
8	MC	"	1	JFK on Houston & Elm & TSBD 6th floor window empty	75	PB	"	4-10	Triple overpass from same position as Altgens 1-6
9	MC	"	2	Camera cars on Houston St. - Man on Dal Tex fire escape, sitting	76	PB	"	4-11	Triple overpass from same position
10	MC	"	3	Grassy knoll after shots	77	PB	"	4-12	Triple overpass from same position
11	MC	"	4	Grassy knoll after shots	78	PB	"	4-16	TSBD 5:16 PM from same position as Altgens 1-6 Clock shows
12	MC	"	5	County Courts Bldg., Dal Tex & Main & Houston	79	PB	"	4-17	TSBD 5:16 PM from same position as Altgens 1-6 Clock shows
13	MC	"	6	Parking Lot	80	PB	"	4-18	TSBD 5:16 PM from same position as Altgens 1-6 Clock shows
14	MC	"	7	Plaza looking south from arcade	81	PC	Willis, 11	1	JFK on Main St.
15	MC	"	8	Parking Lot	82	PC	"	2	JFK on Houston St.
16	MC	"	9	TSBD Bldg. - top	83	PC	"	3	JFK on Houston St.
17	MC	"	10	TSBD Doorway & Dal Tex	84	PC	"	4	JFK in front of TSBD
18	MC	Martin, 5	0*	JFK on Houston St. (from DCA Film)	85	PC	"	5	JFK after first shot
19	MC	"	1	JFK in front of TSBD Bldg.	86	PC	"	6	Elm St. & grassy knoll after shots
20	MC	"	2A	Grassy knoll & Elm St. after shots	87	PC	"	7	Elm St. & grassy knoll after shots
21	MC	"	2B	Grassy knoll & Elm St. after shots	88	PC	"	8	TSBD Doorway
22	MC	"	3	Parking Lot	89	PC	"	9	Houston St. looking N. from Elm. TSBD & Dal Tex
23	MC	"	4	Cop on Motorcycle with negro	90	PC	"	10	TSBD front - Doorway & 5 eastern windows - Arrest and possible rifle
24	MC	"	5	B. Lovelady in front of TSBD	91	PC	"	11	Houston St. looking north from Elm St.
25	MC	"	6	C. Brehm interviewed on Elm St.	92	PC	"	12	TSBD (all of it) from Houston & Main
26	MC	"	7	View North on Houston from Elm	93	PC	"	13	Man arrested outside Dal Tex Bldg.
27	MC	"	8	View North on Houston & TSBD doorway	94	PC	"	14	White station wagon on Elm about 12:45
28	MC	"	9	Front of TSBD - Cops with shotguns	95	PC	"	15	Scenes around TSBD
29	MC	"	10	Dal Tex Bldg - Cop with shotgun - Police cars	96	PC	"	16	Scenes around TSBD
30	MC	Mentesana, 6	0	L. Florer under arrest at Houston & Elm	97	PC	"	17	Scenes around TSBD
31	MC	"	1	Top of TSBD - 2 cops on 7th floor fire escape	98	PC	"	18	Scenes around TSBD
32	MC	"	2	Houston St. between TSBD and Dal Tex - Rifle being examined	99	PB	Betzner, 12	1	JFK on Houston
33	MC	Bell, 7	1	JFK on Houston St.	100	PB	"	2	JFK in front of TSBD
34	MC	"	2	JFK in front of TSBD	101	PB	"	3	JFK on Elm about time of first shot
35	MC	"	3	JFK approaching triple overpass on Elm St.	102	PB	Bothun, 13	1	JFK near Love Field
36	MC	"	4	Grassy knoll area just after shots	103	PB	"	2	JFK on Main approaching Houston
37	MC	"	5	Grassy knoll area after shots	104	PB	"	3	Lead motorcycles approaching Houston
38	MC	"	6	Center of Plaza after shots	105	PB	"	4	JFK rounding corner Main & Houston
39	MC	"	7	Grassy knoll area	106	PB	"	5	Arcade after shots
40	MC	"	8	Plaza from Bldg. on south later in day	107	PB	AP Photographer, 14	1	Group of photos taken outside Parkland Hospital
41	MC	"	9	Plaza from Bldg. on south later in day	108	PB	AP Photographer, 15	1	Copy of Moorman 2 - Clearer than published
42	PC	Bond, 8	1	Motorcycles rounding Houston & Main	109	PB	AP Photographer, 16	1	Officers & newsmen inside TSBD at 6th floor window
43	PC	"	2	JFK rounding Houston & Main	110	PB	AP Photographer, 17	1	Group of officials and Pickup truck on Stemmons Freeway - TSBD in background - Taken from moving car - 1:04 PM. Nov. 22
44	PC	"	3	JFK on Houston	111	PB	"	2	Triple overpass from same car on west
45	PC	"	4	Grassy knoll & Elm St. after shots	112	PB	"	3	Closeup of overpass - 1:04 PM from car approaching
46	PC	"	5	Grassy knoll & Elm St. after shots	113	PB	"	4	TSBD, Dal Tex, County Records Bldg. from moving car on Main St. near overpass - 1:04 PM
47	PC	"	6	Grassy knoll & Elm St. after shots	114	PB	"	5	TSBD, Dal Tex from car on Main St. - 1:04 PM Clock shows
48	PC	"	7	Grassy knoll after shots	115	PB	"	6	Grassy knoll & Triple overpass from car on Main St.
49	PC	"	8	Grassy knoll after shots	116	PB	"	7	TSBD, Dal Tex from car on Main - 1:04 PM & View of activity around corner of Elm & Houston
50	PC	"	9	Grassy knoll after shots	117	PB	"	1	JFK early in motorcade
51	PB	M. Moorman, 9	1	Motorcycle cop rounding corner Elm & Houston	117	PB	D. Miller, 18	2	JFK early in motorcade
52	PB	"	2	Grassy knoll & JFK at time of head shot	118	PB	"	3	JFK on Stemmons Freeway - Possible man with rifle in background - Corham sign shows JFK's-C. Hill's foot sticking out of car
53	PB	Altgens, 10	1-2	Lead Motorcycles in Motorcade on Main St.	119	PB	"	1	(Life) Arcade & West Cupola after shots (3 people)
54	PB	"	1-3	JFK approaching Houston St. on Main	120	PB	Dillard, 20	1	TSBD 6th floor window from Cam 3 (Dallas Morning N)
55	PB	"	1-4	JFK turning corner at Houston & Main	121	PB	"	2	TSBD 6th floor window from Cam 3
56	PB	"	1-5	JFK halfway down Houston toward Elm					
57	PB	"	1-6	JFK after first three shots & before fatal shot. Open window, fire escape, Dal Tex					
58	PB	"	1-7	JFK approaching triple overpass. C. Hill on car					
59	PB	"	1-8	Arcade & knoll from South of Elm after shots					
60	PB	"	2-4	TSBD 5:06 PM November 22					
61	PB	"	2-5	TSBD 5:06 PM Clock shows					
62	PB	"	2-6	TSBD 5:06 PM Clock shows					
63	PB	"	2-13	TSBD from same position as Altgens 1-6					
64	PB	"	2-14	TSBD from same position					
65	PB	"	2-15	TSBD from same position 5:16 PM Clock shows					
66	PB	"	2-19	TSBD from same position 5:19 PM Clock shows					
67	PB	"	2-20	TSBD from same position 5:19 PM					

Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows	Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows
122	PB	Dillard, 20	3	Overpass & camera cars on Elm	187	PB	Wm. Allen, 23	3-6	Larry Florer in Sheriff's office
123	PB	"	4	1:45 PM - Hand pointing to bullet mark	188	PB	"	3-7	Larry Florer in Sheriff's office
124	PB	J. Laird, 21	1	(Dallas Morning News) Scene at Parkland Hospital	189	PB	"	3-8	Larry Florer in Sheriff's office
125	PB	"	2	11 contact prints of TSBD late on November 22	190	PB	"	3-9	Larry Florer in Sheriff's office
126	PB	"	3	11 contact prints of Parkland Hospital	191	PB	"	3-10	Larry Florer in Sheriff's office
127	PB	"	4	8 contact prints at Police station	192	PB	"	3-11	TSBD from a distance
128	PB	"	5	16 contact prints of scenes around Parkland Hospital	193	PB	"	3-12	TSBD from closeup
129	PB	J. Beers, 22	1	(Dallas Morning News) Lt. Montgomery carrying large paper bag	194	PB	"	3-13	Two cops in TSBD doorway
130	PB	"	2	Lt. Montgomery with bag	195	PB	"	3-14	Three "tramps" from R.R. yards in front of TSBD
131	PB	"	3	Lt. Johnson carrying Dr. Pepper bottle	196	PB	"	3-15	Three "tramps" on Houston St.
132	PB	"	4	Boxes inside TSBD 6th floor window	197	PB	"	3-16	Three "tramps" being led towards Sheriff's office
133	PB	"	5	W.E. Barnett & J.M. Smith (cops)	198	PB	"	4-2	Bullet mark on curb
134	PB	"	6	Larry Florer on Houston St.	199	PB	"	4-3	Bullet mark on curb
135	PB	"	7	Area where Oswald's rifle found	200	PB	"	4-4	Lt. Montgomery with bag & Lt. Johnson with bottle
136	PB	"	8	Area where Oswald's rifle found	201	PB	"	4-5	Lt. Montgomery with bag & Lt. Johnson with bottle
137	PB	"	9	Two men in police car - one negro, one Cuban	202	PB	"	4-6	Lt. Johnson with bottle & lunch sack
138	PB	"	10	Same men being led from TSBD by cops	203	PB	"	4-7	Lt. Johnson with bottle & lunch sack
139	PB	"	11	Three tramps being led away from TSBD	204	PB	"	4-14	Boxes inside 6th floor window
140	PB	"	12	Three tramps being led away from TSBD	205	PB	"	4-15	Boxes inside 6th floor window
141	PB	"	13	Rifle being carried away from TSBD by Lt. Day	206	PB	"	4-16	Boxes inside 6th floor window
142	PB	"	14	Rifle being carried away from TSBD by Lt. Day	207	PB	"	4-17	View down Elm from 6th floor window
143	PB	"	15	Rifle being carried away from TSBD by Lt. Day	208	PB	"	4-18	View down Elm from 6th floor window
144	PB	"	16	Two ladies & boy leaving TSBD	209	PB	"	4-19	View down Elm from 6th floor window
145	PB	"	17	View from 6th floor window - Nov. 22 PM	210	PB	"	5-1	Rear bumper of car
146	PB	"	18	Oswald arrival at Police Station	211	PB	"	5-2	Cop in front of TSBD & group
147	PB	"	19	Cop with shotgun looking up at TSBD	212	PB	"	5-3	Group in front of TSBD
148	PB	"	20	Group around TSBD	213	PB	"	5-4	Cops in TSBD doorway
149	PB	"	21	Old white haired man led away from TSBD	214	PB	"	5-5	Police cars and crowd behind TSBD (north)
150	PB	"	22	Scene around & inside TSBD - view of east side of Houston	215	PB	"	5-6	Police cars and crowd behind TSBD (north)
151	PB	"	23	TSBD from point on Houston	216	PB	"	5-6	Police cars and crowd behind TSBD (north)
152	PB	"	24	3 boxes stacked up at TSBD 6th floor window	217	PB	"	5-8	Negro & Latin man under arrest on Elm St.
153	PB	"	25	Scene around & inside TSBD	218	PB	"	5-9	Negro & Latin man climbing in police car
154	PB	"	26	Scene around & inside TSBD	219	PB	"	5-10	Negro & Latin man in police car
155	PB	"	27	Scene around & inside TSBD	220	PB	"	5-11	Lt. Day carrying rifle out of TSBD
156	PB	"	28	Scene around & inside TSBD	221	PB	"	5-12	Lt. Day carrying rifle toward Houston & Elm
157	PB	"	29	Scene around & inside TSBD	222	PB	"	5-13	Lt. Day carrying rifle toward Houston & Elm
158	PB	"	30	Scene around & inside TSBD	223	PB	"	5-14	Lt. Day carrying rifle approaching corner
159	PB	"	31	Scene around & inside TSBD	224	PB	"	5-15	Lt. Day carrying rifle crossing Houston
160	PB	"	32	Scene around & inside TSBD	225	PB	"	5-16	Lt. Day carrying rifle crossing Houston
161	PB	"	33	Scene around & inside TSBD	226	PB	"	5-17	Lt. Day carrying rifle in front of Dal Tex
162	PB	Wm. Allen, 23	1-3	(Dallas Times Herald) 12:39 PM Walthers and second official picking up something from ground	227	PB	"	5-18	Lt. Day carrying rifle in front of Dal Tex
163	PB	"	1-4	12:40 PM (Hertz clock shows) Walthers and group near spot where something picked up - South of Elm near inlet	228	PB	"	6-3	Two women and man leaving a house
164	PB	"	1-5	12:41 PM Grassy knoll from center of plaza	229	PB	"	6-4	Two women and man getting in police car - Another photographer shows
165	PB	"	1-6	Group near foot of steps on Elm - TSBD & Dal Tex in background - C. Brehm being interviewed 12:42 PM	230	PB	"	6-5	Two women and man getting in police car - Another photographer shows
166	PB	"	1-7	Group near foot of steps on Elm - Grassy knoll in background - C. Brehm being interviewed 12:42 PM	231	PB	"	6-6	Two women and man in police car - Another photographer shows
167	PB	"	1-8	Group near foot of steps on Elm - Center of plaza in background 12:42 PM	232	PB	"	6-7	Two women and man arriving at police station
168	PB	"	1-15	Cop with shotgun - Dal Tex in background - Elm & Houston 12:43 PM	233	PB	"	6-8	Two women and man arriving at police station
169	PB	"	1-16	Cop with shotgun - View east on Elm from Houston 12:44 PM	234	PB	"	6-9	Two women and man in police waiting room
170	PB	"	1-17	(around 12:45 PM) TSBD from south of Elm on Houston	235	PB	J. McAulay, 24	1	(Ft. Worth Star Telegram) Man arrested in Ft. Worth near police car
171	PB	"	1-18	TSBD from south of Elm on Houston (closer view)	236	PB	"	2	Man near car in Ft. Worth - Nov. 22 PM
172	PB	"	1-19	Crowd held back - Corner Elm & Houston outside County Records Bldg.	237	PB	"	3	Man being led away from car
173	PB	"	1-20	Dal Tex, cops with shotguns from corner Elm & Houston	238	PB	H. Cabluck, 25	1	(Ft. Worth Star Telegram) Spot where bullet hit grass
174	PB	"	2-3	Cops & crowds in front of Dal Tex fire escape - Mentessana in photo	239	PB	"	2	Spot where bullet hit grass
175	PB	"	2-4	Cop with shotgun in front of Dal Tex	240	PB	"	3	Spot where bullet hit grass
176	PB	"	2-5	6th floor window - Man measuring cartons	241	PB	"	4	Spot where bullet hit grass
177	PB	"	2-6	6th floor window - Man measuring cartons	242	PB	"	5	Parkland Hospital - Many people in front
178	PB	"	2-7	6th floor window - Man measuring cartons	243	PB	"	6	Parkland Hospital - Many people in front
179	PB	"	2-8	Cops checking cars lined up to leave parking lot 12:54 PM	244	PB	"	7	Parkland Hospital - Many people in front
180	PB	"	2-14	12:55 PM Sheriff waving out of 6th floor window next to "the" window	245	PB	J. Cabluck, 26	1	(Ft. Worth Star Telegram) Dealey Plaza from Helicopter late afternoon - Nov. 22
181	PB	"	2-15	"Assassins" window	246	PB	"	2	Helicopter view of Dealey Plaza from east of Dal Tex
182	PB	"	2-16	12:55 PM Cops with shotguns - Dal Tex in background (looks like Murray 2-15)	247	PB	"	3	Helicopter view of Dealey Plaza from west of overpass
183	PB	"	2-17	Larry Florer being frisked	248	PB	"	4	Parkland Hospital, JFK car
184	PB	"	2-18	Larry Florer close up	249	PB	"	5	Parkland Hospital, other cars
185	PB	"	2-19	"Assassins" window	250	PB	"	6	View of Railroad tracks from TSBD
186	PB	"	3-5	1:00 PM Larry Florer in Sheriff's office	251	PB	G. Smith, 27	1	(Ft. Worth Star Telegram) Three men from R.R. tracks in front of TSBD under arrest
					252	PB	"	2	Three men from R.R. tracks in front TSBD under arrest
					253	PB	"	3	Lt. Montgomery with bag
					254	PB	"	4	Lt. Montgomery with bag
					255	PB	"	5	Lt. Johnson with sack and bottle
					256	PB	"	6	Lt. Johnson with sack and bottle
					257	PB	"	7	NW corner 6th floor TSBD inside
					258	PB	W. Davis, 28	1	(Ft. Worth Star Telegram) Photographers in camera car CAM 2 early motorcade

Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows	Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows
259	PB	Weigman, 29	1	Scene on Elm. grassy knoll. TSBD doorway from CAM 1	318	PB	Murray, 30	2-24	Cops beside Dal Tex Bldg. - Houston St. side 1:08
260	PB	"	2	Newmans on ground - Cong 1 & 2 on Elm St.	319	PB	"	2-25	Group in front of Dal Tex - Closeup 1:09 (Murray went downtown to buy film)
261	PB	Murray, 30	*4 1	Blank	320	PB	"	2-26	BarBQ place downtown 1:24
262	PB	"	1-2	Blank	321	PB	"	2-27	BarBQ place downtown 1:24
263	PB	"	1-3	Elm & Houston & Dal Tex from in front of TSBD 12:33	322	PB	"	2-28	BarBQ place downtown 1:24
264	PB	"	1-4	-	323	PB	"	2-29	Larry Florer in Sheriff's office 1:30
265	PB	"	1-5	Parking Lot - North section 12:34	324	PB	"	2-30	Larry Florer in Sheriff's office 1:30
266	PB	"	1-6	Parking Lot - South section 12:34	325	PB	"	3-2	Group outside Dal Tex 12:56
267	PB	"	1-7	Elm St. Ext. - From west end looking east 12:34	326	PB	"	3-3	Front of TSBD & Elm St. Ext. looking west 12:56
268	PB	"	1-8	Center of Plaza from knoll 12:35	327	PB	"	3-4	View south on Houston from Elm 12:57
269	PB	"	1-9	Closeup of large group on north curb of Elm 12:35	328	PB	"	3-5	View south on Houston from Elm 12:57
270	PB	"	1-10	Closeup of couple on north side Elm St. - TSBD in background 12:36	329	PB	"	3-6	In Sheriff's office 1:06
271	PB	"	1-11	Long shot facing overpass from steps on Elm 12:37	330	PB	"	3-7	In Sheriff's office 1:06
272	PB	"	1-12	Arcade & knoll from center of Plaza 12:38	331	PB	"	3-8	In Sheriff's office 1:06
273	PB	"	1-13	Police examine spot on ground - Hertz clock shows the time 12:39	332	PB	"	3-9	In Sheriff's office 1:06
274	PB	"	1-14	Same as 13 - South Elm near sewer outlet - Walthers lighting cigarette 12:39	333	PB	"	3-10	Mary Moorman using phone in Sheriff's office 1:06
275	PB	"	1-15	Walthers picking up something from ground 12:39	334	PB	"	3-11	View across Plaza from Houston 1:07
276	PB	"	1-16	Walthers holding something in his hand 12:39	335	PB	"	3-12	Bar on Houston St. - South of Main 1:12
277	PB	"	1-17	Another official touching spot on ground 12:40	336	PB	"	3-13	Bar on Houston St. - South of Main 1:12
278	PB	"	1-18	Police standing around spot on ground 12:40	337	PB	"	3-14	Cab driver downtown where Murray bought film 1:23
279	PB	"	1-19	Police picking up other objects from two spots - Clock shows the time 12:40	338	PB	"	3-15	In Sheriff's office 1:30
280	PB	"	1-20	TSBD Plaza & knoll from Commerce St. - Front doorway guarded by two cops 12:41	339	PB	"	4-4	Overpass from Elm & Houston
281	PB	"	1-21	TSBD Plaza & knoll from Commerce St. 12:41	340	PB	"	4-5	Overpass from Elm & Houston
282	PB	"	1-22	Front door of TSBD from south of Elm 12:42	341	PB	"	4-6	Overpass from Elm & Houston
283	PB	"	1-23	Front door of TSBD from south of Elm 12:42	342	PB	"	4-7	TSBD West end - Top floor
284	PB	"	1-24	Front door of TSBD - Closeup 12:42	343	PB	"	4-8	TSBD West end - All floors
285	PB	"	1-25	Front door of TSBD - Closeup 12:43	344	PB	"	4-9	Houston & Elm activity
286	PB	"	1-26	Negro boy in police car - Front of TSBD 12:43	345	PB	"	4-10	Houston & Elm activity
287	PB	"	1-27	Front door TSBD - Closeup - Walthers in doorway 12:43	346	PB	"	4-11	Houston & Elm activity
288	PB	"	1-28	View east on Elm St. from Houston & Elm Dal Tex & County Records Bldg. 12:43	347	PB	"	4-12	Houston & Elm activity
289	PB	"	1-29	County Records Bldg. - NW Corner 12:43	348	PB	"	4-13	Houston & Elm activity - Possible arrest
290	PB	"	1-30	View north on Houston from south side of Elm St. 12:44	349	PB	"	4-14	TSBD East end - Top floors
291	PB	"	1-31	TSBD from Houston & Main 12:44	350	PB	"	4-15	TSBD East end - Top floors
292	PB	"	1-32	TSBD front & doorway from Houston & Elm 12:45	351	PB	"	4-16	TSBD East end - Top floors
293	PB	"	1-33	TSBD front & doorway from Houston & Elm 12:45	352	PB	"	4-17	TSBD East end - Top floors - Clock shows
294	PB	"	1-34	TSBD doorway - Crowd in front 12:45	353	PB	"	4-18	TSBD East end - Top floors
295	PB	"	1-35	Cop with shotgun - Dal Tex Bldg. in background 12:45	354	PB	"	4-19	TSBD East end - Top floors
296	PB	"	1-36	View north on Houston from Elm St. 12:45	355	PB	"	4-20	TSBD East end - Top floors
297	PB	"	2-3	View of overpass from Elm 12:40	356	PB	"	4-21	TSBD East end - Top floors
298	PB	"	2-4	Crowd on Elm & eastern Cupola from south on Elm 12:40	357	T	Atkins, 31	1	Newmans on the ground
299	PB	"	2-5	TSBD front door - Reporter tape recording interview with Brennan 12:42	358	T	"	2	Newmans on the ground
300	PB	"	2-6	TSBD front door 12:42	359	PB	Cancellare, 32	1	Newmans on ground - Weigman, Craven, Altgens
301	PB	"	2-7	TSBD front door 12:42	360	PB	"	2	Newmans on ground - Closeup
302	PB	"	2-8	Walthers being interviewed in front of TSBD 12:45	361	PB	"	3	Parking lot
303	PB	"	2-9	Walthers being interviewed in front of TSBD 12:45	362	PB	"	4	Plaza & Elm St. from knoll
304	PB	"	2-10	Policeman on 6th floor yelling out window & pointing to 6th floor window 12:55	363	PB	"	5	Crowd on north side of Elm from knoll - Babushka Lady appears
305	PB	"	2-11	Policeman on 6th floor yelling out window & pointing to 6th floor window 12:55	364	PB	"	6	Crowd on Overpass watching JFK going out Stemmons Freeway
306	PB	"	2-12	Three ladies on top floor fire escape landing of Dal Tex 12:56	365	PB	UPI, 33	1	Lt. Montgomery carrying paper bag out of TSBD
307	PB	"	2-13	Cops with shotguns in front of Dal Tex 12:56	366	PB	UPI, 34	2	Officers in front of TSBD
308	PB	"	2-14	Cops with shotguns in front of Dal Tex 12:56	367	PB	"	3	Copy of Wm. Allen 1-3 with caption reading: "Dallas police search ground for bullet believed to have lodged in the earth"
309	PB	"	2-15	Cops with shotguns in front of Dal Tex 12:56	368	PB	UPI, 35	4	Negro girl crying outside Parkland Hospital
310	PB	"	2-16	Cops with shotguns in front of Dal Tex 12:56	369	PB	"	5	Negro girl crying outside Parkland Hospital
311	PB	"	2-17	Larry Florer being interviewed in Sheriff's office 1:06	370	PB	Stoughton, 36		Not sure he took anything Cam 2
312	PB	"	2-18	Larry Florer being interviewed in Sheriff's office 1:06	371	PB	Burrows, 37	1	Camera cars on Houston St. from Cam 2 (AP)
313	PB	"	2-19	Four men in Sheriff's office 1:06	372	PB	"	2	Camera cars on Houston St. from Cam 2
314	PB	"	2-20	Larry Florer 1:06	373	MC	Dorman, 38	1	JFK on Houston - Glimpses on Elm before shots
315	PB	"	2-21	Larry Florer 1:06	374	MC	"	2	More glimpses on Houston after shots
316	PB	"	2-22	Larry Florer 1:06	375	PC	Unidentified, 39	1	TSBD on AM of Nov. 22 - 6th floor window
317	PB	"	2-23	Cops beside Dal Tex Bldg. - Houston St. side 1:08	376	MC	Mrs. Beck, 40		Not sure film exists - Taken during shots
					377	PB	Weaver, 41	1	TSBD 6th floor window before first shot
					378	PB	Powell, 42		Cannot find him
					379	PB	Volkland, 43	1	JFK on Stemmons Freeway - Back of TSBD & Parking lot
					380	PC	MacCammon, 44	1	Group of police interrogating an old negro outside TSBD
					381	PC	"	2	Group of police interrogating an old negro outside TSBD
					382	PC	"	3	Scene in Dealey Plaza
					383	PC	"	4	Scene in Dealey Plaza
					384	PC	"	5	Scene at Tippitt shooting
					385	PC	"	6	Scene at Tippitt shooting
					386	PC	"	7	Oswald in Texas Theatre just before arrest
					387	PC	"	8	Oswald in Texas Theatre just after arrest

Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows	Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows
388	PB	Jackson, 45	1	(Times Herald) Photo of cars on Houston St.	435	T	M. Couch, 49	4	Cop with revolver drawn - South of Elm
389	T	A.J.L'Hoste, 46	1	Station WFAA-TV (ABC) Photographer - Cop carrying shotgun toward TSBD	436	T	"	5	Brehm, Babushka Lady, Summers, Hill, Moorman, Tague South of Elm - Sweeping view to overpass
390	T	"	2	Decker, Brennan, Cop with shotgun outside TSBD doorway	437	T	"	6	Photographers on knoll - Newmans on ground
391	T	"	3	TSBD doorway near same time as Willis 10	438	T	"	7	Haygood trying to jump cycle over curb north of Elm - Weigman & Cancellare running to catch CAM 1
392	T	"	4	6th floor window from underneath	439	T	"	8	Crowd on North side of Elm - Taken from arcade
393	T	"	5	Larry Florer led toward Houston & Elm	440	T	"	9	Crowd on North side of Elm - Taken from Houston & Elm
394	T	"	6	Decker being interviewed in front of TSBD	441	T	"	10	Crowd on North side of Elm - Taken from car driving on Elm (All of above are taken prior to 12:35 PM - Nov. 22)
395	T	"	7	Four cops with shotguns - Dal Tex in background	442	T	"	11	TSBD 6th floor window inside - Cops looking out
396	T	"	8	Larry Florer being led down Houston St. - 3 other photographers show up	443	T	"	12	TSBD from center of Plaza - Zooms in on 6th floor window - Pans down to knoll - Then to corner of Houston & Elm & back to overpass - Executive train moving on overpass
397	T	"	9	Larry Florer going into garage entrance of Sheriff's Bldg.	444	T	"	13	Arcade with several people in it
398	T	"	10	Two cops leading negro witness into TSBD	445	T	"	14	WFAA Commentator shows rifle & telescopic sight similar to Oswalds lying in Plaza grass - Demonstrates bolt action
399	T	"	11	Possibly two men placed in police car in front of TSBD	446	T	"	15	Center of Plaza from knoll
400	T	"	12	Same two men driving down Elm St.	447	T	"	16	Cupola, Zapruder's position & arcade (Sequences 11 to 16 above were taken between 3 and 4 PM - Nov. 22)
401	T	"	13	Mexican & negro led to police car on Elm St.	448	T	D. Cook, 50	1	(KTVT-Channel 11 Fort Worth) JFK on Main and rounding corner Houston & Main - Taken from in front of Sheriff's office
402	T	"	14	Same two being placed in car - Another photographer	449	T	"	2	Cop with drawn revolver & crowd on Elm less than two minutes after fatal shot
403	T	T. Alyea, 47	1	(WFAA-TV ABC) View of Plaza & knoll from Houston & Main - crowd moving toward knoll	450	T	"	3	Activity in parking lot
404	T	"	2	Scene outside TSBD	451	T	"	4	Looking east on Elm St. Ext. toward TSBD
405	T	"	3	Scene outside TSBD	452	T	"	5	In front of TSBD
406	T	"	4	Scene outside TSBD	453	T	"	6	Inside TSBD - Lower floor
407	T	"	5	Scene outside TSBD	454	T	"	7	Inside TSBD - Sixth floor
408	T	"	6	Police searching through 6th floor	455	T	"	8	Arrest & possible rifle (same as Willis 10)
409	T	"	7	Police looking out 6th floor on Houston St.	456	T	"	9	Larry Florer arrest
410	T	"	8	Cop sticks head out toward Elm St.	457	T	"	10	Scene of Plaza
411	T	"	9	Area showing lunch sack & Dr. Pepper bottle	458	T	"	11	Scene in front of TSBD
412	T	"	10	Rifle on 6th floor of TSBD - In hiding place - Sheriffs & police examine spot	459	T	"	12	Scene of knoll (All of above by Don Cook were taken prior to 1:30 PM - Nov. 22)
413	T	"	11	Closeup of rifle posed for photo - Sight visible	460	T	T. Craven, 51	1	(CBS) From CAM 1 Houston St. before the shots
414	T	"	12	Policeman holds rifle up - Second cop points at bolt	461	T	"	2	Knoll after shots - Craven jumped out of CAM 1
415	T	"	13	Group near boxes where rifle found - Newsmen taking notes	462	T	"	3	Closeup of Newmans
416	T	"	14	Lt. Day dusting live shell for fingerprints. Bullet visible	463	T	"	4	Arcade (2, 3, 4 above were taken within 2 minutes after fatal shot)
417	T	"	15	Sheriffs talking on 6th floor	464	T	Underwood, 52	1	(KRLD-CBS) TSBD sign over doorway
418	T	R. Reiland, 48	1	(WFAA-TV ABC) Frame Bldg. in Oak Cliff - Where assassin thought to be - Men sneaking upon it - Could be library or temple	465	T	Sanderson, 53	2	Sixth floor window from directly beneath
419	T	"	2	Two police cars speeding along residential street in Oak Cliff - Police go into old frame building	466	T	"	3	Cops with shotguns - Dal Tex in background
420	T	"	3	Cop holding up light grey jacket - Near parking lot	467	T	"	4	Cops with shotguns - Dal Tex in background - Police photographer leaving TSBD
421	T	"	4	Men in shirt sleeves talking near used car lot	468	T	"	5	Fire engine moving North to Elm on Houston
422	T	"	5	Several police cars & cops near Tippitt shooting site - Cop runs toward police car holding gun butt	469	T	"	6	Cops with shotguns
423	T	"	6	Group gathered around Tippitt's car. Piece of paper or poster lying on dashboard - No detail	470	T	"	7	Fifth floor window TSBD from directly beneath
424	T	"	7	Cops examine Tippitt's billfold (according to Reiland who is narrating) - Note pad inside - Cops point to it - Cop holding Tippitt's pistol beside his car	471	T	"	8	Cop with shotgun & police official - Dal Tex in background
425	T	"	8	Group around Tippitt shooting site (overexposed)	472	T	"	9	Sixth floor window from beneath - Pans down to view West on Elm St. Ext. - Several cops moving fast - Police car in center cop getting out
426	T	"	9	Crowd around police car in business section - It drives away with someone in back seat	473	T	"	10	Cop looking up at TSBD with shotgun
427	T	"	10	Police cars driving up to Texas Theatre	474	T	"	11	Cop looking up at TSBD with shotgun
428	T	"	11	Texas Theatre looking up at tower	475	T	"	12	Same cop looking up at County Records Bldg.
429	T	"	12	Texas Theatre - Cops going in - Car pulls away	476	T	"	13	Several men going into TSBD doorway
430	T	"	13	Inside Texas Theatre - Very dark - Lights blinking - Cops hustle Oswald toward inside doorway	477	T	"	14	TSBD from Houston St. - Pans in on 6th floor window
431	T	"	14	Crowd gathered around police car outside Texas Theatre - Oswald inside in back seat - It drives away	478	T	"	15	Several more men going into TSBD doorway
432	T	M. Couch, 49	1	(WFAA-TV ABC) In CAM 3 - Motorcade on Main St. approaching Houston St.	479	T	"	16	Cop & two police officials running fast from near TSBD doorway toward garage entrance of County Record Bldg.
433	T	"	2	Front of TSBD - Crowd on north side of Elm as CAM 3 rounds corner Houston & Elm	480	T	"	17	Fireman going into TSBD carrying ladder
434	T	"	3	CAM 1, CAM 2, other photographers on knoll - Newmans on ground - man with umbrella folded - Officer Haygood approaching north curb - Hargis running to cycle South of Elm St. as CAM 3 moves down Elm	481	T	"	18	Arrest & possible rifle in front of TSBD (same as Willis 10)
					482	T	"	19	Decker being interviewed in front of TSBD (shows in Murray)
					483	T	J. Darnell, 54	1	20 Fake secret service man & Roger Craig in front of TSBD (shows in Murray)
									(WBAP-NBC) Elm St. activity after he jumped out of CAM 3 - Less than 1 min. after fatal shot

Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows
484	T	J.Darnell,54	2	In parking lot
485	T	"	3	In front of TSBD - Arrest of man on Elm
486	T	"	4	In WBAP press room - Old Co. Court House - Witness interviews
487	T	D.Owens,55	1	(WBAP-NBC) In front of TSBD
488	T	"	2	Decker being interviewed in front of TSBD
489	T	KRLD,56	1	(Photographer unknown) Two men running in shadow of fence toward old building among trees & shrubbery - Could be library or church in Oak Cliff where suspect was believed to be hiding
490	MC	T.Towner,57	1	JFK rounding corner Houston & Elm
491	PC	"	1	JFK rounding corner Houston & Elm
492	PC	"	2	Camera cars going down Elm St.
493	MC	P.Paschall,59	1	JFK going under overpass
494	PC	N.Similas,60	1	JFK on Elm - TSBD in background
495	PC	"	2	JFK on Elm - Overpass in background
496	PB	D.Moorman,61	1	JFK in car after shots (Sold to AP)
497	PB	J.Newman,62	1	JFK on Stemmons (Sold to AP)
498	PB	T.Howard,63	1	JFK at time of fatal shot - Eva Grant says Howard had this photo - Not sure it exists
499	?	Unidentified Photog,64		Appears in Wm. Allen 196
500	?	Babushka Lady,65		Could be Babushka Lady - Appears in many pictures taken north and south of Elm - Probably took movie of fatal shot

Photo No.	Type	Photographer Name & No.	Seq. No.	Photo Shows
501	?	Unidentified Man,66		Appears in Muchmore 1
502	?	Unidentified Man,67		Appears in Martin 3
503	?	Overpass Man,68		Policeman says he saw someone on overpass taking pictures
504	?	Unidentified Woman,69		Brennan says he saw her taking pictures
505	?	Unidentified Woman,70		Appears in Altgens 1-4
506	?	Unidentified Man,71		Appears in Murray at Houston & Elm
507	?	Unidentified Man,72		Appears in Murray 1-22, 1-23, 2-5, 2-6 and 2-7 in TSBD doorway
508	?	Grant,73		Not sure he took anything - Was in CAM 2
509	?	Unidentified Man,74		Took Elm St. photo before motorcade arrived
510	?	Unidentified Photog,75		JFK early in motorcade. Jack Ruby? & stripper? standing on curb
511	?	Unidentified Photog,76		Man taking movies from upper floor of Dal Tex Bldg. Sorrels took possession. See Sawyer Test. 6H324
512	?	Joe Scott,78		TSBD scenes - KRLD photographer

*1 Legend for Type of Photo: M - Movie; P - Still Photo; T - Television Footage; C - Color; B - Black & White

*2 There are 10 other photographers' sequences in the DCA film in addition to Martin & Mentasana

*3 "Ike" Altgens, Associated Press, remembered taking only three of the photos he actually took in Dealey Plaza. He took seven at the time of the motorcade and 21 more after 5 PM. The actual roll and frame numbers on the negatives are given.

*4 James Murray used two cameras, one telefoto and one wide angle. The rolls as numbered alternate between the two cameras. Rolls 1,3 - Camera 1; Rolls 2,4, etc. - Camera 2. However, the individual photos do not alternate. Camera 2 was used much less frequently than Camera 1. The photos on Rolls 2,4,6,8, and 10 therefore are interspersed with Rolls 1,3,5,7, and 9 on a more or less random basis. Only the times listed indicate the true sequence. The roll and photo numbers listed are those appearing on the actual films. Only rolls 1 through 4 are listed here. Rolls 5-10 were exposed either on Nov. 23 or later, or the night of Nov. 22 in locations other than Dealey Plaza.

In addition there are four other Black Star photographers who took pictures: Gene Daniels, Matt Herron, Shel Hershorn and Mr. Shulke.

Gene Daniels took a total of 260 black and white, 35 mm still photos during the November 22-24 period. A few of these were taken the afternoon and evening of November 22 and the rest on November 23 and 24. There are scenes at Dealey Plaza, TSBD, Sheriff's office, Police station, Police press conferences, Oswald's rooming house and room, Oswald's public appearances, and views of Elm St. from Dal Tex Bldg. through telescopic sight.

Their photos are not counted on this list because they were not taken on November 22 in Dealey Plaza.

*5 Man with sign saying "S.O.B. Jack Kennedy" is standing on South curb of Elm, facing position of man with umbrella. This photo taken about 1 minute after shots. Could be a signal for successful hit.

*6 Underwood and Sanderson shared the same camera. Underwood borrowed it from Sanderson shortly after shots were fired, then returned it. It is not certain which one took what sequences.

Part 3. The Application of Computers to the Photographic Evidence

Correlation of the Evidence

It is highly desirable to apply the powers of the computer to analysis of the evidence. And since "the evidence" is a very large order, it makes sense to begin with the "photographic evidence".

Suppose we estimate at 200 the number of frames in an average photograph which is a movie or television sequence. In Table 3 (the main list) there is a record of about 44 movie sequences, and 101 television footages, 145 in total. This means that there are over 25,000 frames, plus approximately 350 still photographs, to be analyzed.

Over 200 persons, objects, etc., are mentioned briefly in the simple short descriptions of the photographs in Table 3. As more photographs are studied, other persons and objects can be identified. The different items need to be identified by codes; a sample of the coding scheme that would be applicable is shown in Table 4.

The sheer volume of record keeping for 200 to 300 objects and persons appearing in 25,000 frames requires a computer. The analysis of what appears

in groups and series of photos and frames also requires computerized correlation.

How will the information for a photograph be entered into a computer? One reasonable way of proceeding is to make a "coding sheet" for each photograph, preparatory to giving it to a clerk for input into computer language. The coding sheet and instructions will look something like that shown in Table 5.

Suppose we have put together a computerized data base of the photographic evidence in this form. What will be the sorts of questions which computer programs will enable us to answer? Here are a few samples:

- Which are the pictures that show object ... or event ... ?
- Where was man # ... from time ... to time ... ?
- When did movable object ... leave the scene?

Essentially, when one is using an ordinary file and not using a computerized data base, the information in the file is accessible only by the main sequencing - in this case, the number of the photographer and the number of the picture or movie frame that he took. Cross referencing is possible, but difficult, time-consuming, and clumsy. When one uses a computerized data bank, cross referencing becomes very easy and fast. In fact, it may provide so much more facility in getting at the

Table 4
COMPUTER CODES FOR PERSONS AND OBJECTS IN THE PHOTOGRAPHS --
PRELIMINARY LIST OF CODES

Persons		Buildings	
W. E. Barnett	102	man (unident.)	129
boy	103	man with sign	130
C. Brehm	104	Lt. Montgomery	132
Brennan	105	motorcycle cop	133
cab driver	106	Negro	134
cop	108	Negro girl	135
2 cops	109	Newmans	136
cops (officers)	110	newsmen (reporters)	137
couple	111	officials	138
Roger Craig	112	old Negro	139
Craven	113	L. Oswald	140
Latin man (Mexican, Cuban)	114	people (crowd)	141
Lt. Day	115	photographers	142
Decker	116	Jack Ruby	143
fake secret service man	117	sheriff(s)	144
fireman	118	J. M. Smith	145
L. Florer	119	Sorrels	146
Haygood (officer)	120	stripper	148
Hargis	121	Summers	149
Clint Hill	122	Tague	150
Lt. Johnson	123	Tippit	151
J.F. Kennedy	124	tramps	152
ladies (women)	125	woman (unident.)	153
B. Lovelady	126	Walters	154
men arrested	127	Weigman	155
men in shirt sleeves	128	white-haired man	156

Regions or Places		Actions and Events	
arcade	201	N.W. corner 6th floor	218
area where Oswald's rifle found	202	TSBD bldg. inside Oak Cliff	219
bar on Houston St. Commerce St.	203	overpass (triple overpass)	220
curb	205	parking lot	221
TSBD doorway	206	plaza	222
east cupola	208	police (waiting room)	223
7th floor fire escape	210	railroad tracks	224
6th floor window of TSBD	211	residential street	225
Ft. Worth	212	sheriff's office	226
garage entrance of Sheriff's building	213	spot where bullet hit grass (bullet mark)	227
grassy knoll	214	Stemmons Freeway	228
Houston St.	215	steps	229
Love Field	216	Tower	230
Main St.	217	used car lot	231
		west cupola	232

Objects	
back seat	501
billfold	502
boxes	503
bullet	504
bullet mark	505
camera (cam)	506
camera cars	507
cars	508
cigarette	509
clock (Hertz)	510
congressional car #2	511
Corham sign	512
dash board	513
Dr. Pepper bottle	514
fence	515
fire engine	516
foot	517
gun	518
hand	519
J.F.K. car	520
light gray jacket	521
library or church	307
old building	308
Parkland Hospital	309
police station	310
Texas Theatre	311
TSBD (Texas School Book Depository)	312
interrogating	409
interview	410
leading	411
lighting cigarette	412
measuring	413
tape recording	414
telephoning	415
waving	416
yelling	417
live shell	522
motorcade	523
motorcycle(s)	524
note pad	525
paper bag (sack)	526
paper or poster	527
pickup truck	528
police cars	529
rear bumper	530
rifle	531
sewer outlet	532
shadow	533
shot gun(s)	534
shrubbery	535
telescopic sight	536
trees	537
umbrella	538
unidentified object(s)	539
white station wagon	540
windows	541

available information and answering questions, that it yields a revolutionary increase in what one can deduce.

Directions, Locations, and Timing

In addition to the content of the photographs as reported in Table 3 five more items of information need to be entered on the computer record of each frame or still photo:

- the identification of the photographer who took the photograph;
- the location of the photographer when he took it;
- the direction in which he took the picture;
- the time when he took the picture
- the identity of the person doing the analysis or submitting data about the picture.

The FBI and the Warren Commission staff made a careful analysis of the timing of the frames in the Zapruder film, and correlated these times with the positions of the presidential limousine and other cars in the motorcade. (See Chart 1). Consequently, there exists an accepted time scale at 1/18 second intervals which applies to the events in the photographs: the scale consists of eighteenthths of a second (named with frame numbers of the Zapruder film) during the crucial 6.8 seconds of the fatal interval. I was able to extend this reference technique by using four other movies stretched end to

end in time to cover the period from the moment Kennedy rounded the corner of Houston and Main Sts. up to the beginning of the Zapruder film.

A preliminary correlation of the times of various movie sequences and still photographs is shown in Table 1, for the period of Kennedy's travel through Dealey Plaza. In addition, Jim Murray's photographs form an excellent time reference base at less than 30 second intervals for nearly an hour after the last shot, beginning at three minutes after the last shot (see Table 1). The period from the end of the Zapruder film (roughly ten seconds after the last shot) up to the first of Murray's photos (about 3 minutes), is covered by several movies and TV sequences.

Clearly, a human clerk would find it difficult and tiring to enter the bulk of the applicable information for each frame of a long sequence. But a computer program should be able to enter a large part of the applicable information into the computer record for each frame.

The computer should be able to compute and keep records of the timing of all events, in seconds or minutes before or after the time of the first shot.

Image Enhancement and Correlation

Another possibility which computer graphics makes possible is image enhancement. This is an activity in which the human eye is expert. For ex-

Table 5
CODING SHEET FOR COMPUTER-ASSISTED ANALYSIS
OF PHOTOGRAPHS — PRELIMINARY

Field	Coding Instructions	Approx. No. of Characters
A. Identification:		
1. Photograph Number	Use photograph number in main list	3
2. Type of photograph	Use M for movie, P for still photo, C for color, B for black and white, T for television footage	2
3. Photographer	Use photographer number in main list	2
4. Sequence number	Use photograph sequence number in main list	5
5. Person who analyzed photograph	Use analyst identifying number according to a previously established key	2
B. Contents of the Photograph:		
1. Photographers (Note: a picture may of course show other photographers taking pictures.)	Use photographer number. Previously, make an alphabetic key to photographers from main list	0 to 12
2. Other persons (in the picture who are not photographers)	Use person code in Table 4	0 to 12
3. Regions or places	Use place code in Table 4	3 to 12
4. Buildings	Use building number in Table 4	0 to 12
5. Events and actions	Use code in Table 4	3 to 12
6. Objects	Use code in Table 4	3 to 12
7. Place of the photograph	Use the grid shown in the map, letter first, then number	2
8. Time	Use time code. Previously, adopt a scale of times: fractions of seconds, labeled with Zapruder frame numbers during the Zapruder movie sequence showing the shots; then, seconds, minutes, and hours before and after the Z sequence as may be appropriate; then, days and dates	5
9. Capsule summary of photograph	Use 10 to 30 words describing the contents and importance of the photograph, according to specified rules for summarizing and examples	60 to 200
Approximate maximum number of total characters for one computer record: 200 to 300		

ample, when a picture is printed in a newspaper it is "screened", i.e., converted into a collection of small dots — some of which are white, some of which are black, — printed in varying intensities, and the human eye looking at the result reassembles the dots into a picture. If you take a magnifying glass, and look at a newspaper picture, the collection of dots becomes completely visible, and you are filled with an appropriate wonder over how the human eye manages to put them together into a picture.

However, if you desire to apply image enhancement with computer graphics, you find yourself with a two-edged sword, in this sense: If you know what you are looking for, then image enhancement can aid

you. For example, it is easy to find where a circle is located if you know definitely that a circle is in the picture. But if you do not know what you are looking for, then it is easy to find and see things that are not there. For example, there are "experts" who can make people out of bushes, or make bushes out of people, or see canals on the surface of Mars.

In the case of the photographs taken at the time of the Kennedy assassination, we have, however, a different situation. Suppose that four photographs taken at just the same time show a particular spot on the grassy knoll from almost the same direction: it should be possible to use techniques of image enhancement and correlation, and thus see more clearly exactly what was at that spot. For here we are putting together not the information contained in just one picture, but the information contained in four pictures.

Several photos taken from different angles could also enhance an image in three dimensions. (The puff of smoke, for example).

Objectives of the Computer Search of the Photographic Evidence

What are the sorts of questions that might be answered from a thorough, computerized, search of the photographic evidence? Some of these questions are:

1. Can rifles be seen in firing positions?
2. Can the faces of the gunmen be seen?
3. According to the Warren Report, 56 witnesses (a majority) thought the shots came from a grassy knoll. Some of them saw a "puff of smoke" — do the photographs show a puff of smoke? (At least nine photographs do.)
4. Do the photographs show that shots came from the knoll? (Yes.)
5. Does the testimony of the witnesses as to what they did, agree with what the cameras showed that they did? (One Dallas police officer testified that after the shots he ran up the grassy knoll. But he is shown in some of the photographs, and he did no such thing — he just leaned against a lamp post.)
6. Can gunmen be traced through a series of photos?
7. Given a certain object or event in a particular place, which photos should show it during a particular time?

There is no doubt at all that a large number of steps can be taken towards the visual re-creation of that fatal scene, through the study of over 350 still photographs and over 25,000 frames.

The task of computerized analysis of the photographs has been started, but there is a long way to go. A great deal of good detective work should be able to be accomplished through computer record-keeping and analysis of the photographic evidence in the assassination of President Kennedy.

Part 4. Appendices

Acknowledgements and Notices

I wish to express thanks to the following researchers and authors who contributed to the collection and analysis of the photographic evidence and who stimulated me to undertake the work on the photographs: Richard Bernabei, Richard Billings, Lillian Castellano, Bernard Fensterwald, Margaret Field, Jim Garrison, Trent Gough, Jones Harris, David Lifton, Ray Marcus, Sylvia Meagher, Gary Murr, Fred Newcomb, Vincent Salandria, Gary Schoener, Jo-

siah Thompson, William Turner, and Harold Weisberg. However, what is said in this article is my responsibility, not theirs.

Since a large number of details are covered in this article, and since there may occur errors of omission or commission or incomplete or inadequate analysis of some of the evidence, I would greatly appreciate any comments and corrections any reader may be kind enough to send me. All corrections will be published at a later date.

If by accident we have infringed on anyone's copyright in a publication of a picture, we shall be glad to pay the normal commercial rate for the use of the picture.

If any reader of this article desires to ask some specific questions in regard to the assassinations of President John F. Kennedy, or Martin Luther King, Jr., or Senator Robert Kennedy, about what has so far been found out by the researchers, Computers and Automation will make an effort to provide brief replies to these questions. Please write to Computers and Automation, Att'n K, 815 Washington St., Newtonville, Mass. 02160; and please enclose a self-addressed stamped envelope for each question, since the questions may be routed to different researchers for the answers. Unlike the Warren Commission, the researchers do not intend to disband immediately after issuing a set of conclusions, and to thereafter ignore all questions.

If any reader of Computers and Automation is interested in contributing computer programming or computer time or materials or funds to the investigation and efforts of the researchers in the NCTIA, he should write to Bernard Fensterwald, Jr., Chairman, NCTIA, 927 15th St. N.W., Washington, D.C. 20005.

A double-size chart (22 inches by 34 inches) of Dealey Plaza showing the events in Dealey Plaza like that here published is available. It may be ordered for \$5 from Cutler Designs, 38 Union St., Manchester, Mass. 01944. If you desire the chart unfolded, please specify that it be shipped in a cardboard tube. As additional information becomes available, the large chart will be brought up to date.

Epilogue

When I have talked from time to time to various audiences on this subject and shown them some of the photographs, I have encountered a number of questions. Some of these questions are here discussed.

• Why is it important to get to the bottom of the assassination of President Kennedy, now, after six and a half years have gone by? — There are several reasons. One is that there is a pattern of assassination (with evidence suggesting conspiracy) of important American leaders; two Kennedys and Martin Luther King, for example. A second reason is to save America — i.e., the United States as a democratic American society — by exposing the truth.

• Do you think you can save America? — It can be done but only with great pain, just as there was great pain over the Dreyfus Affair in France, 1894 to 1906.

• Why are you yourself so concerned about this? — Because I personally believe that the assassination and its coverup changed the course of United States history from a positive one to a negative one in a way that no other event or series of events ever has. I believe we must eventually rid our country and our own minds of the terrible social and political cancer that would allow this to happen and, worse, to permit the truth about the assassination to remain suppressed.

• Why did not Senator Robert Kennedy do something about this? — It is sad that he did not, for I

think he would have been alive now if he had. There is little evidence for any answer, but there are two popular theories. One theory is that, even though he knew the truth, he underestimated the forces that stood between him and the presidency of the United States, and that he assumed that, once President, he could expose the truth. The second theory is that his connections with the Central Intelligence Agency and the failure of an attempt to assassinate Fidel Castro resulted in some anti-Castro Cubans and others participating in organizing his assassination — some of the same people who had participated in the assassination of his brother. I do not know why Senator Robert Kennedy remained silent; why Senator Edward Kennedy remains silent; and why they have both suppressed the autopsy materials on President John F. Kennedy.

• Do you think District Attorney Jim Garrison is a madman or a fool or insane? — No. I think that he is absolutely sane, and one of the old-style Americans left, and that he has a great deal of courage. He also suffered from underestimating the strength of the forces ranged against him. In addition, the CIA penetrated his case against Clay Shaw; they were even paying the lawyers of some of the people he arrested or attempted to subpoena. He said, "You can't conduct a trial of a CIA-backed conspiracy in an ordinary U.S. court."

• Why did the national news media cooperate in the attack on Garrison's credibility? — This question is hard to answer in a short space. For much light on this important subject, I refer you to Mark Lane's book, A Citizen's Dissent, now in paperback.

• Are you telling me that men as distinguished as Chief Justice Earl Warren, John J. McCloy, Allen Dulles, Gerald Ford, and others on the Warren Commission can be wrong about their conclusion expressed in the Warren Commission Report? — Yes. If you want to know how and why, read the book Inquest by Edward J. Epstein, which is a valuable contribution. But Epstein was paid several tens of thousands of dollars (perhaps indirectly from government sources) for the article that he published in the New Yorker magazine attacking Garrison, and that article contains over 100 misstatements. Recently, one of the Warren Commissioners, Senator Richard Russell, has said publicly that he has doubts about some of their conclusions. Also Jesse Curry, Dallas police chief in November 1963, has said publicly the same thing.

• Did Lyndon B. Johnson know about the plans for the assassination of President John F. Kennedy in Dallas before it happened? — So far no substantial evidence has been found to show that he did.

• Did J. Edgar Hoover know about the plans for the assassination of President John F. Kennedy in Dallas before it happened? — There is conclusive evidence that J. Edgar Hoover knew, and issued no warnings.

• What can be done?

1. One of the things that anyone can do is to read up on this subject, become informed, and talk to his friends.
2. Another thing that may be possible is to organize in a year or two an untainted Congressional committee of investigation, which will look into political assassinations in the United States.
3. It would be good to persuade President Richard Nixon to issue an executive order to release the classified documents buried in the National Archives for 75 years (by President Lyndon Johnson's executive order), along with the Kennedy autopsy materials.
4. It would be good to dismantle the Central Intelligence Agency — which President Kennedy before he was assassinated said he

would like to do — and distribute its functions elsewhere, and in the meantime make it accountable for budgetary funds voted by Congress.

5. It would be good to expose J. Edgar Hoover, to call the attention of the public to his suppression of evidence and his failure to warn President Kennedy of the plot for assassinating him in Dallas, and to compel his resignation. The FBI knew about the plot well ahead of time — through Oswald's Nov. 20 phone call, and the Miami police's warning, at least.

• What about an organization dealing with this subject? — There is one. As mentioned above, a considerable amount of the new evidence comes from the work of a group of researchers, who have interviewed many witnesses, examined many documents, and studied many of the photographs. This group of researchers is loosely coordinated by the National Committee to Investigate Assassinations, which has an office in Washington, D.C., and whose chairman is Bernard Fensterwald, Jr. He is a Washington attorney who a few years ago was the head of the legal staff assisting Senator Estes Kefauver in his investigation into organized crime. He was also Senator Edward Long's attorney in the administrative procedures sub-committee of the Government Operations Committee. The NCTIA has been accumulating evidence, which is stored in a number of different places, and stands ready to cooperate with law enforcement agencies as well as Congress. The committee needs money, particularly for computerized correlation of the mass of evidence it has accumulated. The name and address are The National Committee to Investigate Assassinations, 927 15th St. N.W., Washington, D.C.

• What about the mysterious deaths of witnesses? — One of the researchers who is a member of the committee is Penn Jones, Jr., Editor, Midlothian Mirror, Midlothian, Texas, who has been compiling and publishing evidence for over six years. He maintains a list of witnesses who "knew too much" and who have died unexplained deaths. There have been over 50 deaths among this group (according to his definition of it) in the time since November 22, 1963; the chance that that number of deaths is due to natural causes is much less than one out of a million millions.

• Have any of the researchers been killed or threatened? — No, not yet. In appraising the forces on each side of this issue, the great weight is still on the side of the American people, who have not yet been completely "taken over". In fact the capacity of the American people to deal with the misinformation and propaganda being told them through government publicity, government statements, and government commissions seems to be steadily improving. The most recent examples are Songmy, Pueblo, Laos, and Cambodia. Besides some branches of the Federal government such as the CIA and FBI, only some of the police departments of the country (such as Dallas, Memphis, Chicago, and Los Angeles) have so far been "taken over" (in the sense of full cooperation with the suppression of evidence about assassination plotters and other political plots). There is a good chance that these police departments can be "taken back", provided we the people can see more clearly what is happening. There is hope.

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A longer bibliography is available from the National Committee to Investigate Assassinations, 927 15th St. N.W., Washington, D.C.