

of the assassination led the commission to opacitude that "a rifleman of Lee Harry Oshiald's capabilities could have fired the shots comme rifle used in the assassination within the clapsed time of the shooting." The lindings of the firearms experts were that it would take 2.3 seconds "at minimum" between shots; they said this was within Oswald's capabilities, given his known firearms proficiency.

Windshield: The commission said the through the President's head windshield in the presidential limousine was "By using the Zapruder, Nix and Much struck by a bullet fragment," on the Inside more motion pictures, the President's local surface of the glass, but (it) was not pened tion at the time the bullet pener ated his trated."

Finally, what about Zapruder's movie? Those showing the film note that the President's head seems to snap back about the time be was hit, indicating to them, at least, that the fatal shots had been fired from the front?

Actually, three amateur movies were taken.

The movie-taking spectators were Zapruder, Orville O. Nix and Mary Muchmore.

The commission report states: "Substan-

The commission report states: "Substantial light has been shed on the assassination sequence by viewing these motion pictures, particularly the Zapruder film, which was the most complete."

the most complete.

The other two films were valuable for cross-reference, as this excerpt from the Warren Commission report indicates:

"After a bullet pencirated President Ken in nedy's neck, a subsequent shot entered the back of his head... The Zapruder, Nix and Muchmore films show the instant in the sequence when the bullet struck.

The impact was evident from the explosion of the President's brain tissues from the right side of his head. The immediately preceding frame from the Zapruser film shows the President slumped to his kft, clutching at his throat, with his chin close to his chest and his head tilted forward at an angle.

"Rased upon information provided by the doctors who conducted the autopsy; an arlist's drawing depicted the path of the bullet hrough the President's head

By using the Zapruder, Nix and Muchmore motion pictures, the President's location at the time the bullet pener ated his bead was fixed with reasonable precision. A careful analysis of the Nix and Muchmore films led to fixing the exact location of these cameramen. The point of impact of the bullet on the President's head was apparent in all of the movies.

The President's location, established

The President's location, established through the Nix and Muchmore films, was confirmed by comparing his position on the Zapruder film.

The location had hitherto only been approximated, since there were no landmarks in the background of the Zapruder frame for alignment purposes other than a portion of a painted line on the curb.

This is only a fraction of the exhaustive Warren Commission report.

It is presented as a reminder that the report was compiled by a commission and staff of able people who went to great lengths to try to answer as many questions as possible about President Kennedy's assassination.

tion.

The investigation was conducted by a chairman of unquestioned integrity — the late Earl Warren, chief justice of the U.S. Supreme Court.

This doesn't rule out questions and con-Lary opinions; nevertheless, in judging any new theories, it is only fair to test them against the painstaking Warren Commission report.

Robert W. Spingel

