143...FBI reenactment date 5/24/64

<u>5H</u>

145...Position A is the first position at which JFK was in view of marksman TSED window...the first position where the marksman saw the rear of the standin and could focus in on the fireled point where the point of entry was marked. Station C is a straight line across West side of Houston, where the car turned entering Elm. Station A is hh ft from Station C and 91.6 feet to rifle in window with angle of $40^{\circ}10^{\circ}$. Station A is an arbitrary point showing the first possible shot that could have entered the President's coat at the chalk mark.

147...Frame lól is last point where marksman could have clear view of JFK before the car went under the tree.

148...The standin for JFK is 10 inches higher because of the difference in the cars..."we took this into account in our calculations...After establishing the position, represented by frame 161, where the chalk mark was about to disappear under the tree, we established a point 10 inches below that as the actual point where JFK would have had a chalk mark on his back or where the wound would have been if the car was 10 inches lower. And we rolled the car then sufficiently forward to **x** reestablish the position that the chalk mark would be in at its last clear shot before going under the tree...this gave us frame 166 of the Zapruder film."

149...there is a slight opening in the tree where a shot could have been fired, which is frame 185, from which the angle to window is 24°14'.

150...Chalk mark becomes visible again after passing tree at frame 207; angle to window is 21°50'.

151...<u>Specter</u> What was the adjusted frame for the first view that the marksman had of the President's standin coming out from under the tree?

Shaneyfelt That is frame 210 and has been marked as CE No 893 and represents the 10-inch adjustment for the difference in the height of the car as compared with frame 207.

NOTE Frame 161 adjusted 10 inches becomes frame 166 or \neq 5 frames Frame 207 " " frame 210 or \neq 3 frames 152...The first frame at which JFK is visible coming out from behind the sign is frame 225, in which "his hand is down, his right hand that was waving is down, and has been brought down as though it were reaching for his lapel or his throat. The otherhand, his left hand is on his lapel but rather high as though it were coming up and he is beginning to go into a hunched position. Angle chalk mark to rifle in window: Frame 210 21° 34' Frame 225 20° 11'

153...minimum frames between two shots is 42 based on camera speed of 18.3 frames per second and 2.25 seconds to operate bolt and fire.

155...Shaneyfelt says Gov. C. could have been hit by frame 238; Frazier later says Gov.C. not in poissition for shot from window after frame 225.

Ford says it is apparent in the photos that after a slight hesitation Gov C's body turns more violently than JFK's body; JFK's only reaction is a motion to his throat or his neck with his hands, whereas Gov C actually turns his body rather sharoly.

> <u>Shaneyfelt</u> Yes; he turns as they go behind the signboard, he turns this way and he is turning a little bit this way and as he comes out of the signboard he is facing slightly to the right, comes around straight, and then he turns to his left straight on, and then he turns to his right, continues to turn around and falls overin Mrs. C's lap. <u>Cooper</u> In what frame did Gov C begin to turn to the right after he had placed his position straight forward ? <u>Shaneyfelt</u> That starts approximately at frames 233 to 234... JFK has moved hands to throat in 226. Difference is 8 frames or &/18ths of a second...."in that 15 frames there it is behind the signboard, we can't see what is happening."

157..."...the last we get any scene of him at all, and this is just the very top of his head is 210..." then blacked out for 15 frames until begins to emerge from behind sign at 224-225.

158...Specter says and Shaneyfelt agrees that frame 235 was selected as the last frame at which Gov C had turned enough to the right to be shot from the window with the known trajectory, provided that the path of the bullet was undeflected. Frame 240 also possible (?).

But.....

Frazier, 5H 170, says Gov C could have been struck anywhere between frames 207 and 225 and "there is only one poisition beyond frame 225 at which the Gov. could have been struck..." says angle of bullet through Gov's body right to left is about 20°. Says specifically Gov not in position to be hit in frames 231, 235, 240, 249, 255.

171...says Gov could have been hit by same bullet as hit JFK only when he was in process of turning to the right, about 20°, but not when "sitting full face forward" or when turned too far around.

NOTE: But Gov C did not turn right until he had heard the shot, by which time the bullet had already struck JFK, unless the first shot missed.

Reverting to Shaneyfelt,

159...he says Altgens photo (doorway) is frame 255, "which is well past the signboard...well past the first xign evidence of reaction

161...distance between 161 and 313 is 136.1 feet

Frazier

165...says estimated window open about onc-third. That is not correct. Dillard photo, measurements show wondow only one-fourth open.

NOTE: Car is behind tree foliage from 161 to 210 (except for 185) Car is behind sign from 210 to 225 JFK is reacting at 225-226

<u>Kelley</u>...never at any time was he in a position to take a wound in the throat which from the drawings that have been given me that I have been shown by the Commission would he take a wound in the throat which would have**xx** exited higher than the throat or in the shoulder. From the evidence that has been shown previously, the wound in the throat was lower on the President's body than the wound in the shoulder, and--

Specter By the wound in the shoulder do you mean the wound in the back of the President's neck, and the base of his neck? helles 4