

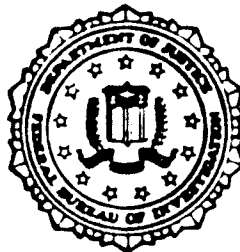
**THE ASSASSINATION OF  
PRESIDENT JOHN F. KENNEDY**

**NOVEMBER 22, 1963**

**AND THE**

**KILLING OF LEE H. OSWALD**

**NOVEMBER 24, 1963**



**VISUAL AIDS**

**FEDERAL BUREAU OF INVESTIGATION  
UNITED STATES DEPARTMENT OF JUSTICE  
John Edgar Hoover, Director**

**62-109060 - 2313 X**

*EBF*

corner of Main and Houston Streets.

12. What was the aiming pattern of the assassin's target?

The target was moving away in a relatively straight direction. Shot one was fired from a gun probably braced for a steady shot sighted-in on a predetermined point on the parkway just clear of tree foliage. Linear measurements made on the scale model indicate that shots two and three were fired at a target slowly moving away in a direction slightly downward and to the right of the point where shot one struck the President.

- a. SHOT ONE hit the target from a distance of 167 feet, measured downward along a 23-degree angle from the horizontal.
- b. SHOT TWO hit the target from a distance of 262 feet, measured downward along an 18-degree angle from the horizontal. The target moved forward 96 feet in 4.4 seconds at 15 mph

(22 fps) or 5.5 seconds at 12 mph

(17.6 fps). Line of sight change from shot one: 5 degrees upward, 4 degrees to the right.

- c. SHOT THREE hit the target from a distance of 307 feet, measured downward along a 15-degree angle from the horizontal. The target moved forward 45 feet in 2.0 seconds at 15 mph (22 fps) or 2.5 seconds at 12 mph (17.6 fps).

Line of sight change from shot two: 3 degrees upward, 1.5 degrees to the right.

- d. ELAPSED TIME to hit targets two and three after hitting target one: 6.4 seconds at 15 mph (22 fps) or 8.0 seconds at 12 mph (17.6 fps).

- e. CHANGE OF AIMING PATTERN from shot one to shot three: 8 degrees upward, 5.5 degrees to the right.