

UNITED STATES GOVERNMENT

# Memorandum

DIRECTOR, FBI

DATE: 5/2/68

Attention: Exhibits Section  
Administrative Division

SAC, MEMPHIS (44-1987) (P)

SUBJECT: MURKIN  
CR

OO: ME

Re Bureau routing slip dated 4/30/68 in which certain items were requested to be forwarded to the Exhibits Section, Administrative Division, to the attention of Exhibits Specialist GEORGE C. MUMFORD, JR.

Enclosed herewith is a one-page copy of the results of an engineering survey made by the Memphis PD of the distance from the rooming house window to point where Dr. KING was shot. Also contained in this survey is information regarding the downward angle from the second floor rear bathroom windowsill of 422 1/2 South Main Street to a point 59" above the balcony of the Lorraine Motel.

Being forwarded under separate cover are two copies of an aerial photo of the crime scene, size 40" by 40". Photos of the crime scene taken by the Memphis PD will be forwarded immediately when they are made available.

*Xerox of eng. survey made.  
1 cc rem in Exh. Sect  
W/eng. survey*

REC-27

EX-104/H-38861-2857

- 2-Bureau (Enc. 1)
- 1-Package (RM)
- 2-Memphis

HDT:PEH  
(5)

*ALL. 42 files*

*HEA 1 1/2 HALL  
SEARCHED  
SERIALIZED*

*SEARCHED  
SERIALIZED  
INDEXED  
FILED*



MAY 1968

4/30/68

[REDACTED] Memphis Police Department, Memphis, Tennessee, Inspectional Bureau, advised that he and [REDACTED] met Memphis City Engineer ARTHUR C. HOLBROOK, P. E., Tennessee License No. 5173, and a surveying crew at the Lorraine Hotel on April 23, 1968, at 8:30 a.m. Certain engineering measurements were subsequently taken.

[REDACTED] advised that an engineer's transit was placed over the spot where Dr. MARTIN LUTHER KING, JR., was shot, the telescope being positioned 59 inches above the balcony floor. This height was based on information contained in the autopsy report of Dr. MARTIN LUTHER KING, JR., which indicated that the missile entered his body at a point 59 inches above the right heel with the head positioned to correspond with the path of the missile. He stated that the point where Dr. KING was standing when shot was indicated to them by Reverend JAMES BEVEL, a representative of the Southern Christian Leadership Conference, who was staying at the Lorraine Hotel.

From this position, two triangles were established with a baseline common to the two triangles established and measured. Every effort was made to ensure accuracy. It was determined that the level distance from the second floor rear Bathroom window sill of 422½ South Main Street to the point where Dr. KING was standing on the balcony of the Lorraine Hotel was 206.36 feet and the in-line distance from the window sill to the point where Dr. KING was standing was 207.02 feet. The window sill at the rear of 422½ South Main was determined to be 16.63 feet higher than a point 59 inches above the floor of the balcony of the Lorraine Hotel at the location Dr. KING was standing when he was shot. The downward angle of the direct in-line distance from the second floor window sill at the rear of 422½ South Main to a point 59 inches above the balcony of the Lorraine Hotel at the point where Dr. KING was standing was determined to be 4 degrees 36 minutes 25 seconds.

114-35541