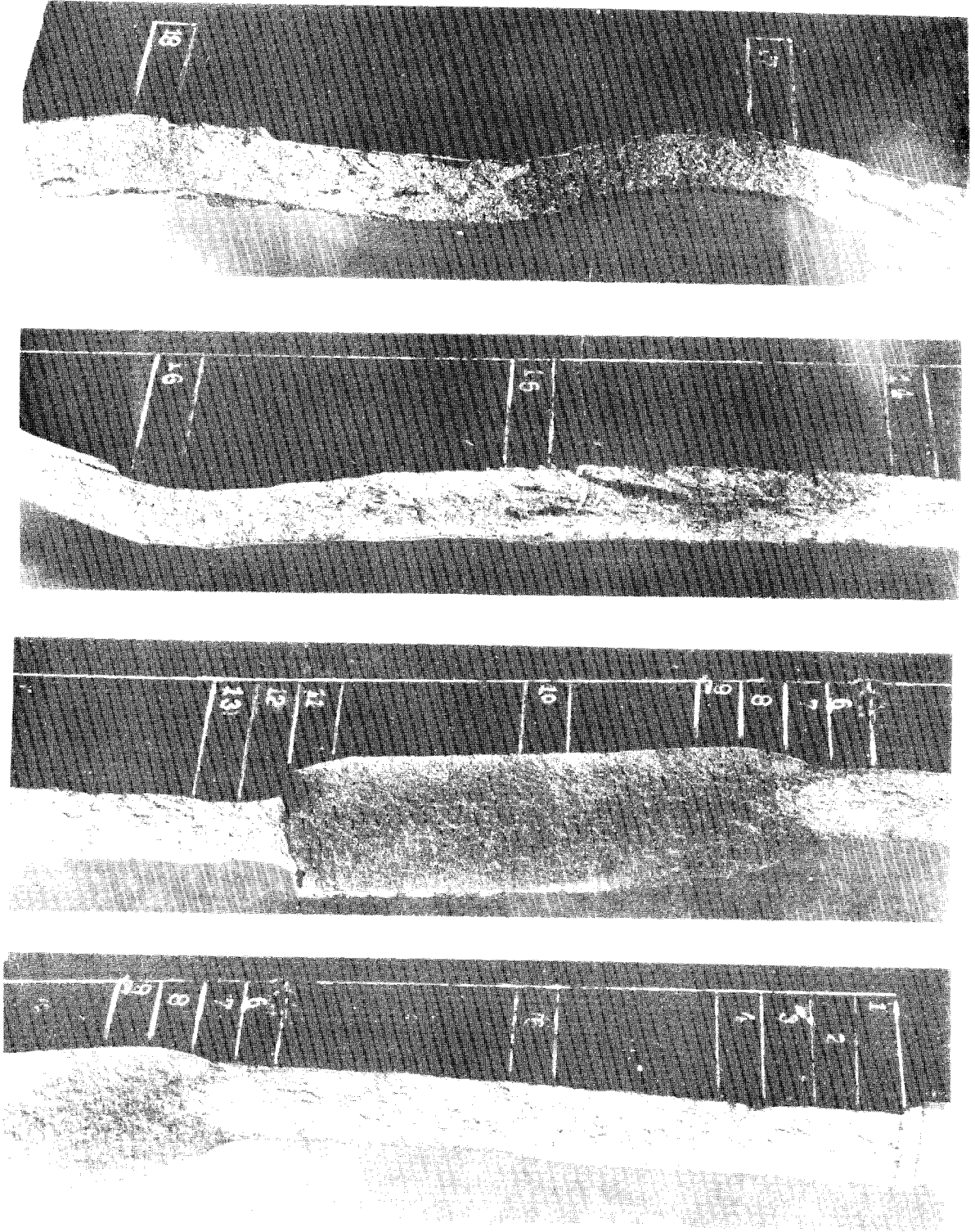
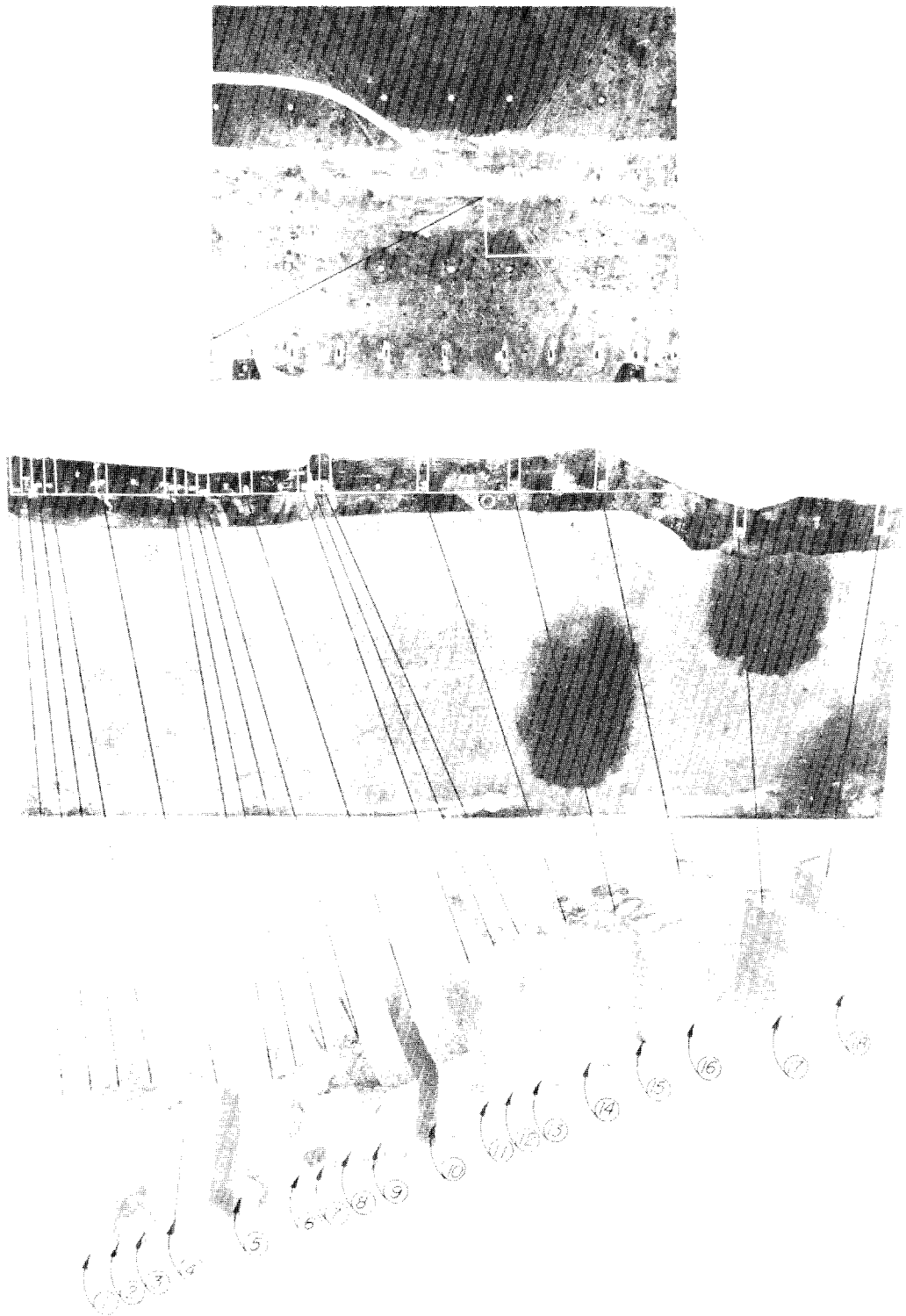


FIG. 39- VIEW OF FRACTURED SPECIMEN C-1A SHOWING LOCATION OF SAMPLES FOR MICROHARDNESS SURVEY

STEEL 0.25 CARBON, 0.47 MANGANESE, AS ROLLED  
 SPECIMEN 7/8 IN WIDE BY 3/4 IN THICK  
 FRACTURE CLEAVAGE TEMPERATURE OF TEST 32°F  
 AVERAGE STRESS AT FAILURE 37,000 PSI

FIG. 41- VIEWS SHOWING THE FRACTURE OF THE RIGHT SIDE OF THE PLATE C-2A  
FIGURES INDICATE THE MICROHARDNESS SPECIMEN NUMBER





**FIG.40-VIEW OF FRACTURED SPECIMEN C-2A SHOWING LOCATION OF SAMPLES FOR MICROHARDNESS SURVEY**

STEEL: 0.26 CARBON, 0.49 MANGANESE, AS ROLLED

SPECIMEN: 72 IN. WIDE BY  $\frac{3}{4}$  IN. THICK

FRACTURE: 9.3% SHEAR, 90.7% CLEAVAGE      TEMPERATURE OF TEST: 76°F

AVERAGE STRESS AT FAILURE: 37,800 PSI