

**AIRCRAFT
ACCIDENT INVESTIGATION BOARD
REPORT**

**US ARMY UH-60
BLACK HAWK HELICOPTERS
87-26000 AND 88-26060**

VOLUME 8

TAB R

**AIRCRAFT
ACCIDENT INVESTIGATION BOARD
REPORT**

COPY

15

OF

14

**AFR 110-14 AIRCRAFT ACCIDENT BOARD
INDEX OF TABS**

O	Additional Substantiating Data Reports	
P	Statement of Damage to Private Property	
Q	Documents Appointing Safety Board (Not Applicable)	
R	Diagrams	
S	Photographs from Safety Report (Not Applicable)	
T	Individual Flight Records/Personnel Records	
U	Aircraft Maintenance Records	
V	Testimony and Statements of Witnesses	
W	Weather Observations	
X	Statements of Death	O
Y	Appointment Documents	P
Z	Photographs	Q
AA	Regulations and Directives	R
AB	Administration and Glossaries	
AC	Other Documents	

TAB R

DIAGRAMS

R-1 TAOR and Restricted Operating Zone Diagrams

R-2 VID and Engagement Diagrams

R-3 Flight Scenario Diagram

R-4 E-3B AWACS Floor Plan

R-5 Panorama of Accident Area

R-1

R-6 UH-60 Black Hawk 88-26060 Flight Path Diagrams

R-7 UH-60 Black Hawk 88-26060 Crash Site (Site 2)

R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

RESTRICTED OPERATIONS ZONES



TAB R
DIAGRAMS

R-1 TAOR and Restricted Operating Zone Diagrams

R-2 VID and Engagement Diagrams

R-3 Flight Scenario Diagram

R-4 E-3B AWACS Floor Plan

R-5 Panorama of Accident Area

R-1

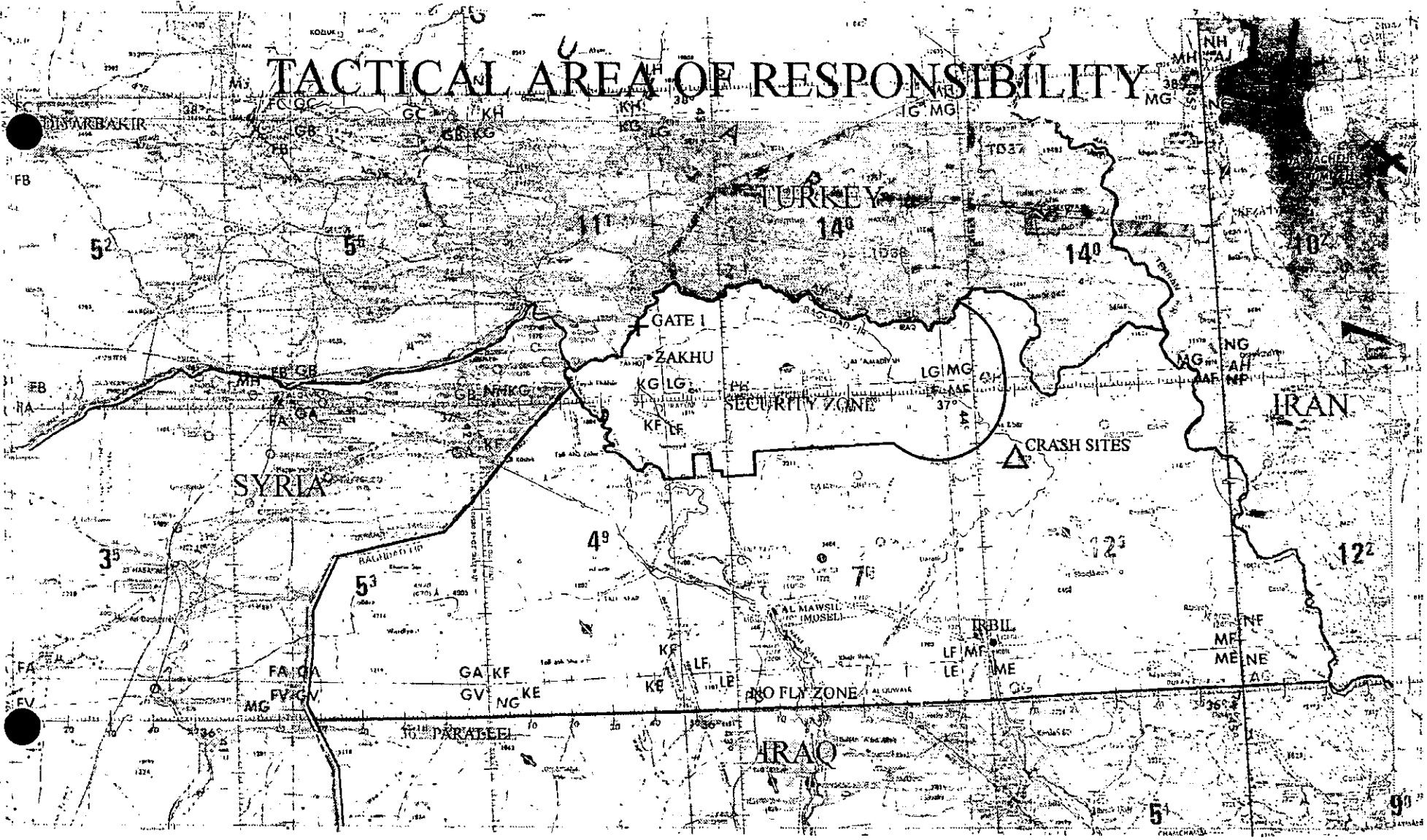
R-6 UH-60 Black Hawk 88-26060 Flight Path Diagrams

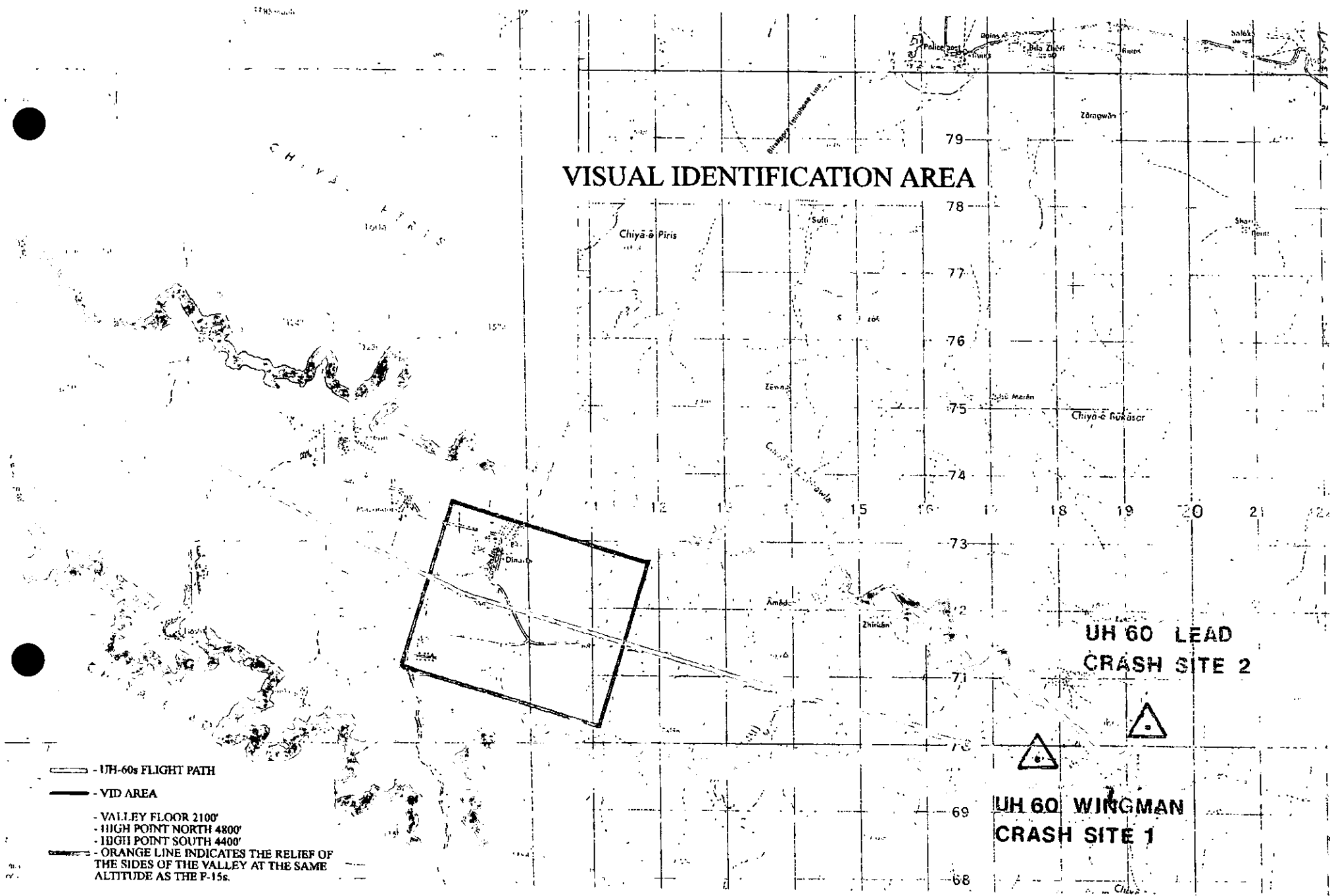
R-2

R-7 UH-60 Black Hawk 88-26060 Crash Site (Site 2)

R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

TACTICAL AREA OF RESPONSIBILITY



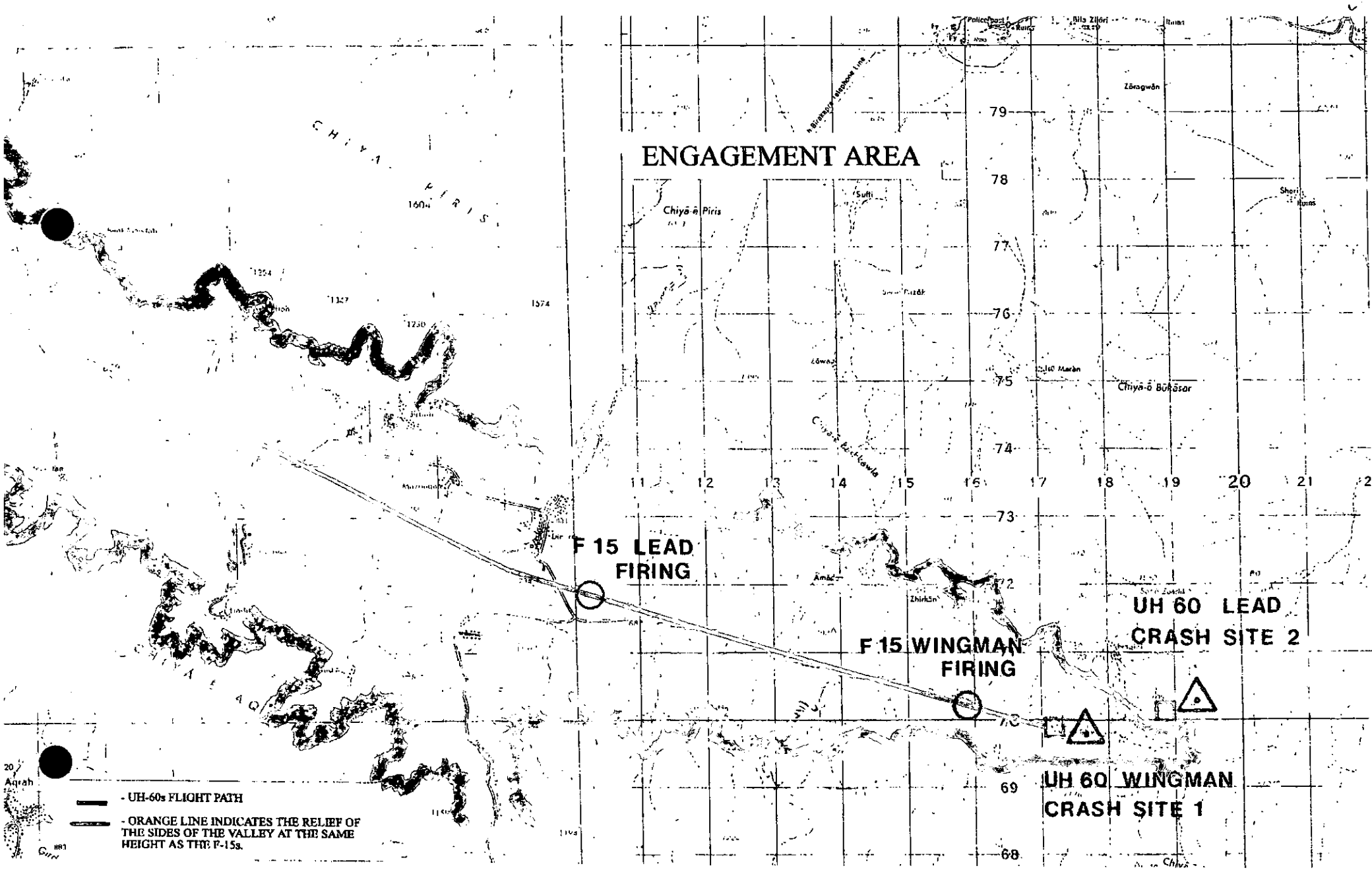


VISUAL IDENTIFICATION AREA

- UH-60s FLIGHT PATH
- VID AREA
- VALLEY FLOOR 2100'
- HIGH POINT NORTH 4800'
- HIGH POINT SOUTH 4400'
- ORANGE LINE INDICATES THE RELIEF OF THE SIDES OF THE VALLEY AT THE SAME ALTITUDE AS THE F-15s.

**UH 60 LEAD
CRASH SITE 2**

**UH 60 WINGMAN
CRASH SITE 1**



ENGAGEMENT AREA

**F 15 LEAD
FIRING**

**F 15 WINGMAN
FIRING**

**UH 60 LEAD
CRASH SITE 2**

**UH 60 WINGMAN
CRASH SITE 1**

- UH-60s FLIGHT PATH
- ORANGE LINE INDICATES THE RELIEF OF THE SIDES OF THE VALLEY AT THE SAME HEIGHT AS THE F-15s.

20
Aqrah
HR1
Ginn

**TAB R
DIAGRAMS**

R-1 TAOR and Restricted Operating Zone Diagrams

R-2 VID and Engagement Diagrams

R-3 Flight Scenario Diagram

R-4 E-3B AWACS Floor Plan

R-5 Panorama of Accident Area

R-1

R-6 UH-60 Black Hawk 88-26060 Flight Path Diagrams

R-2

R-7 UH-60 Black Hawk 88-26060 Crash Site (Site 2)

R-3

R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

74

101

105

115

111

139

137

F-15EAD
RADAR CONTACT
0722 (Z)

F-15EAD
RADAR CONTACT
0723 (Z)

F-15EAD
0725 (Z)

F-15EAD
RADAR CONTACT
0726 (Z)

LG MG
LF MF

F-15EAD
RADAR CONTACT
0727 (Z)

F-15EAD
RADAR CONTACT
0728 (Z)

F-15EAD
RADAR CONTACT
0729 (Z)

2¹¹

3⁴

3⁹

2²

4³

5⁶

72

72

78

91

50

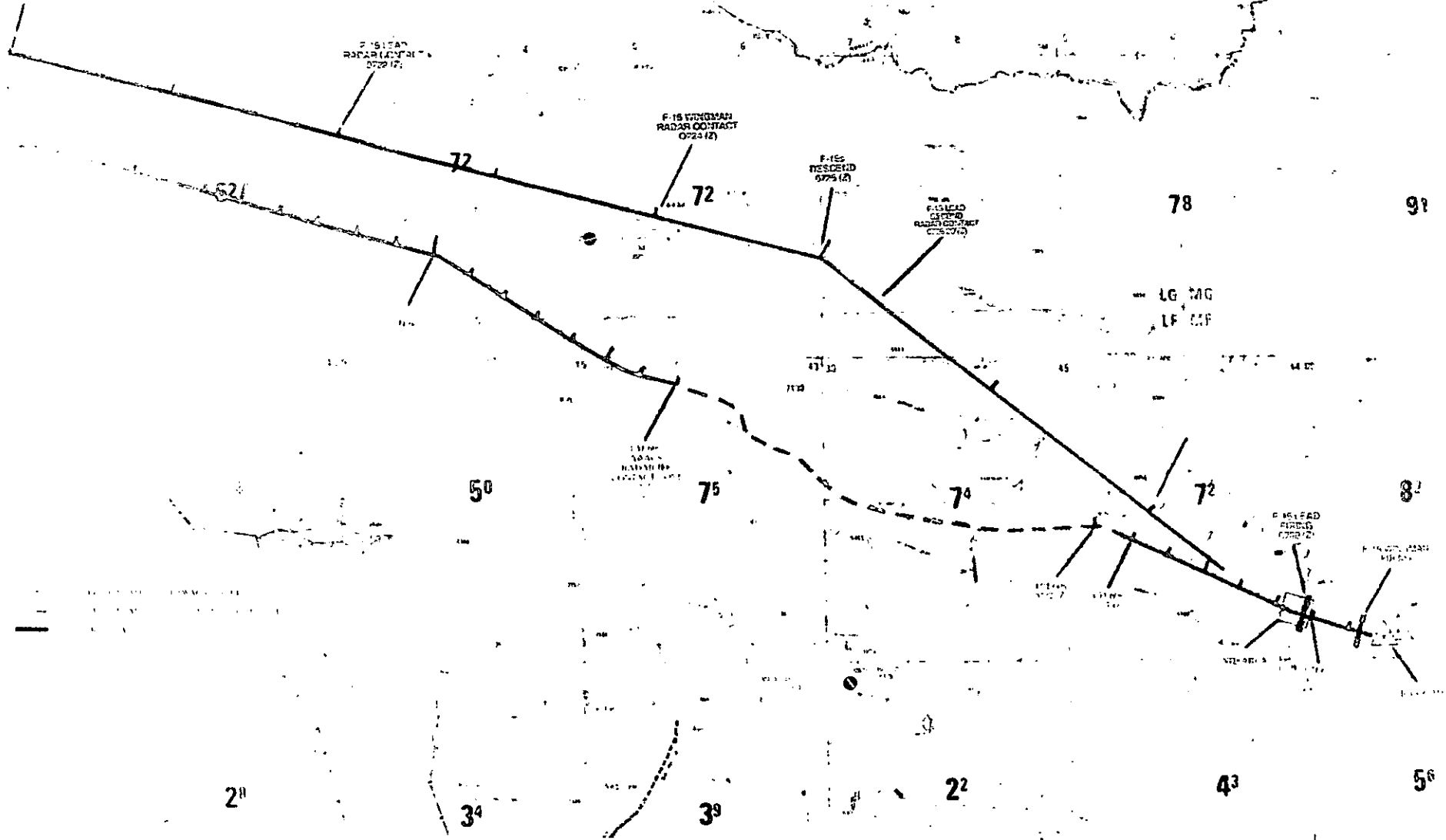
75

74

72

82

521

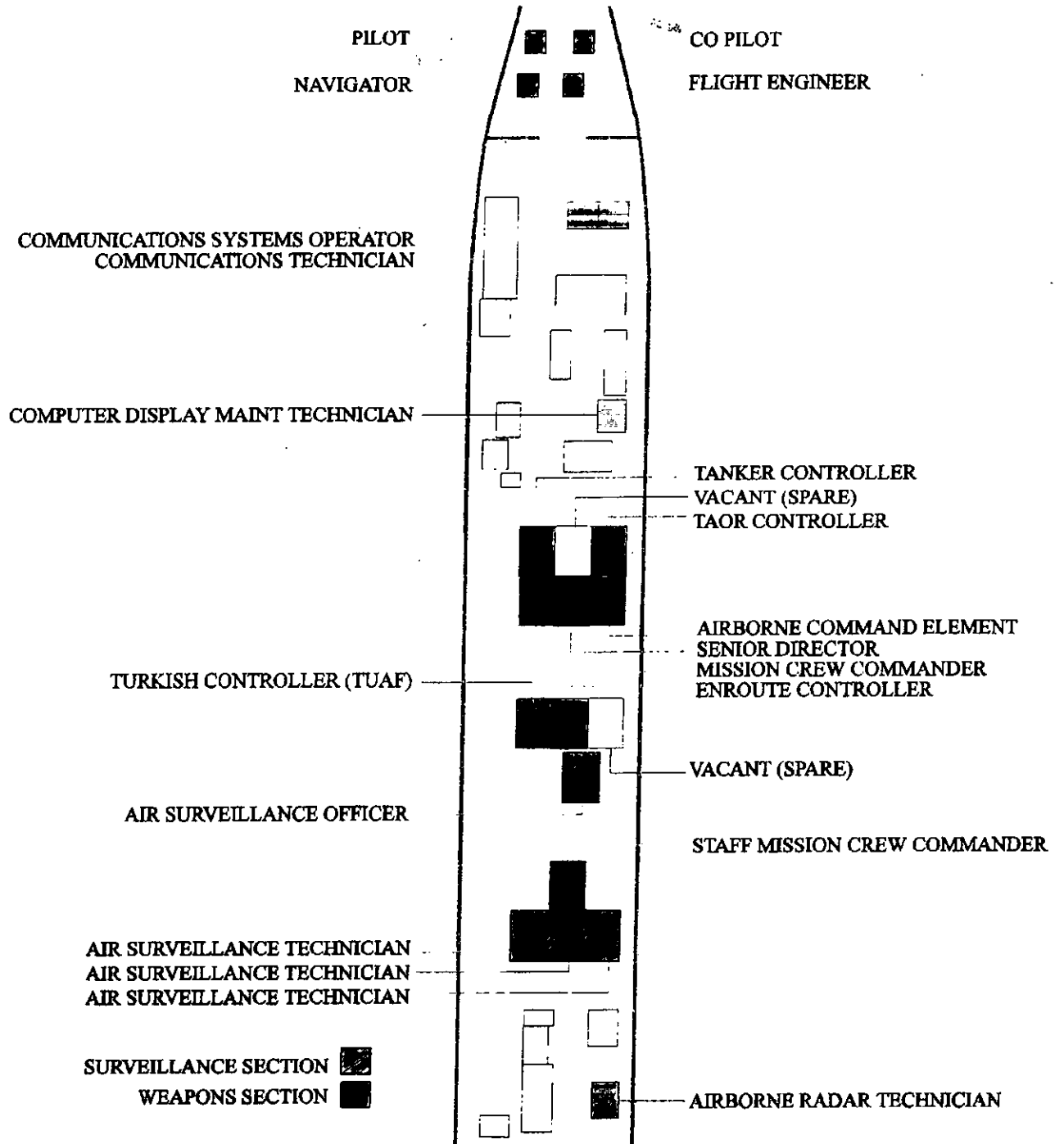


TAB R
DIAGRAMS

- R-1 TAOR and Restricted Operating Zone Diagrams**
- R-2 VID and Engagement Diagrams**
- R-3 Flight Scenario Diagram**
- R-4 E-3B AWACS Floor Plan**
- R-5 Panorama of Accident Area**
- R-6 UH-60 Black Hawk 88-26060 Flight Path Diagrams**
- R-7 UH-60 Black Hawk 88-26060 Crash Site (Site 2)**
- R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)**

R-
R-
R-
R-

E-3B AWACS



**TAB R
DIAGRAMS**

R-1 TAOR and Restricted Operating Zone Diagrams

R-2 VID and Engagement Diagrams

R-3 Flight Scenario Diagram

R-4 E-3B AWACS Floor Plan

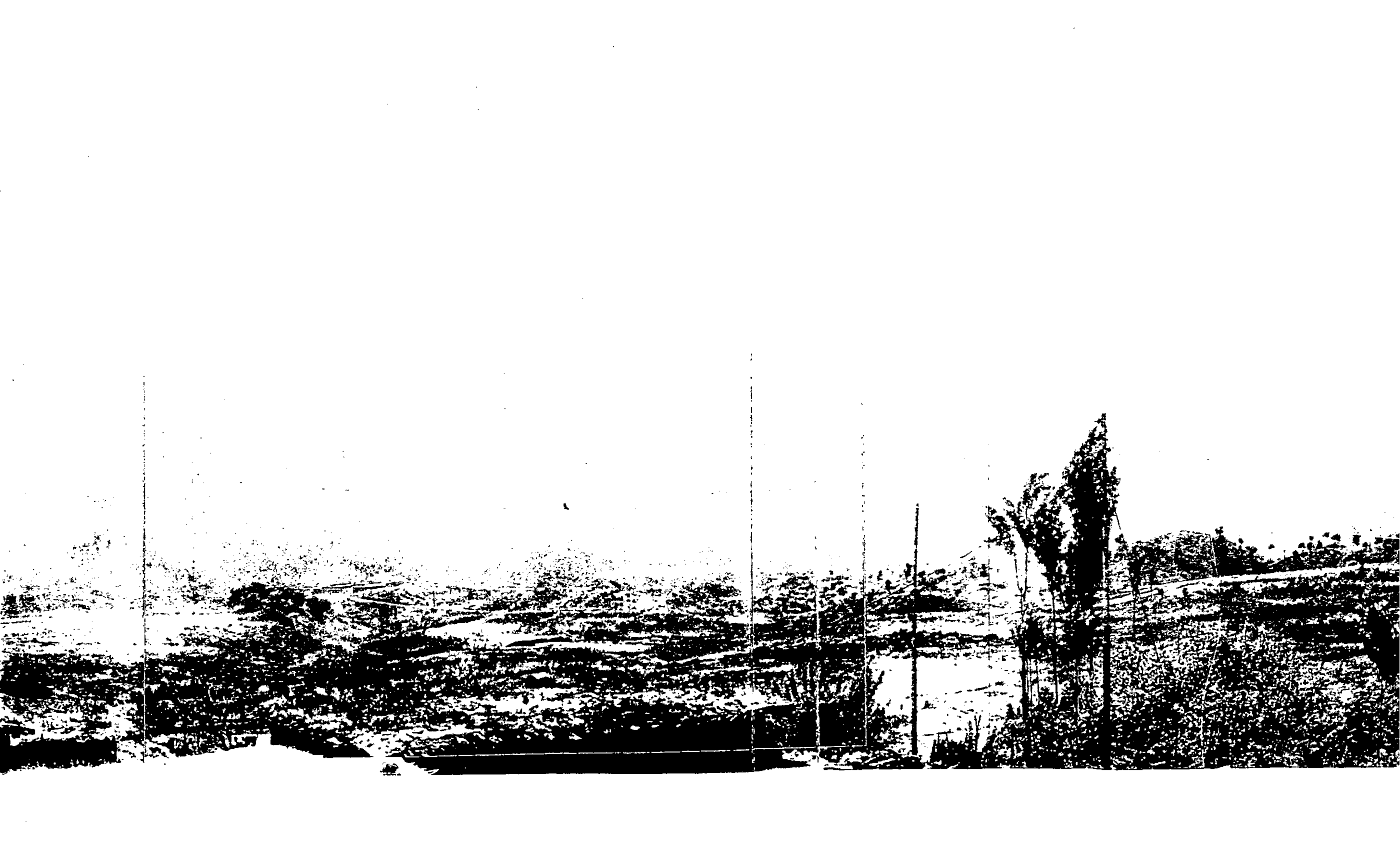
R-5 Panorama of Accident Area

R-6 UH-60 Black Hawk 88-26060 Flight Path Diagrams

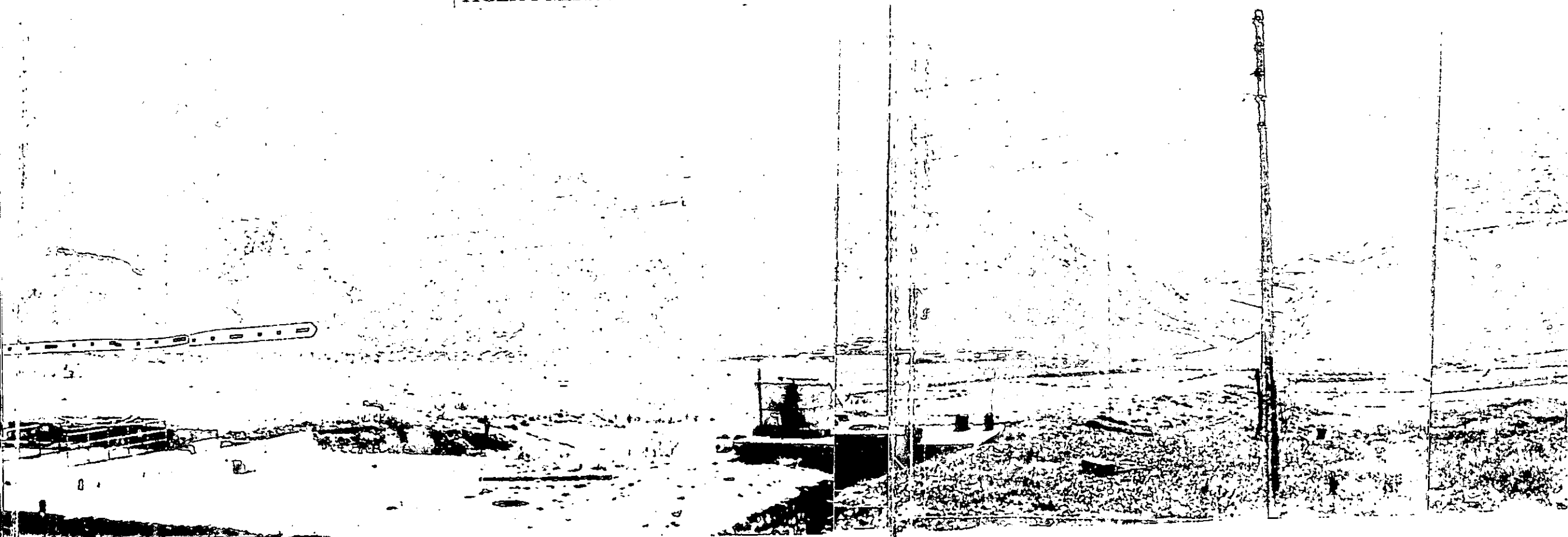
R-7 UH-60 Black Hawk 88-26060 Crash Site (Site 2)

R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

**R-1
R-2
R-3
R-4
R-5**



TIGER 1 MISSILE LAUNCH POINT



**TAB R
DIAGRAMS**

R-1 TAOR and Restricted Operating Zone Diagrams

R-2 VID and Engagement Diagrams

R-3 Flight Scenario Diagram

R-4 E-3B AWACS Floor Plan

R-5 Panorama of Accident Area

R-6 UH-60 Black Hawk 88-26060 Flight Path Diagrams

R-7 UH-60 Black Hawk 88-26060 Crash Site (Site 2)

R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

R-1

R-2

R-3

R-4

R-5

R-6



BR
AB 09)

FLIGHT PATH TO
TE 2 (EAGLE LEAD)
TAIL NO. 88-26060

APPROX FLIGHT
ROUTE OF
EAGLE LEAD



EAGLE 1'S
TURNING
POINT INTO
RAVINE

TAP 2
(SEE TAB 09)



**TAB R
DIAGRAMS**

R-1 TAOR and Restricted Operating Zone Diagrams

R-2 VID and Engagement Diagrams

R-3 Flight Scenario Diagram

R-4 E-3B AWACS Floor Plan

R-5 Panorama of Accident Area

R-6 UH-60 Black Hawk 88-26060 Flight Path Diagrams

R-7 UH-60 Black Hawk 88-26060 Crash Site (Site 2)

R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

R-1

R-2

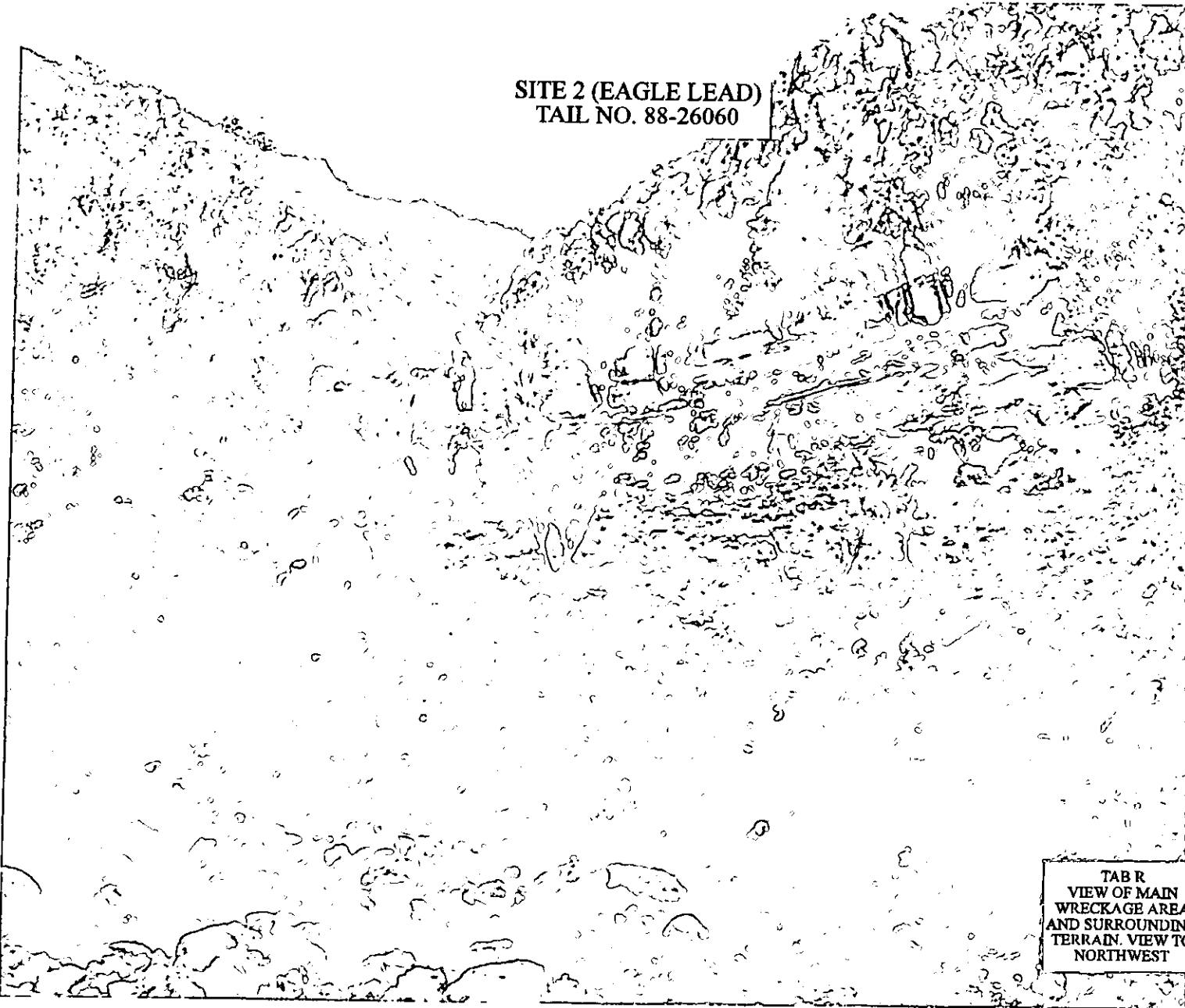
R-3

R-4

R-5

R-6

R-7



SITE 2 (EAGLE LEAD)
TAIL NO. 88-26060

TAB R
VIEW OF MAIN
WRECKAGE AREA
AND SURROUNDIN
TERRAIN. VIEW TO
NORTHWEST

SITE 2 (EAGLE LEAD)
TAIL NO. 86-26060



MAIN TRANSMISSION
WITH 2 ROTOR
BLADES ATTACHED

TAB R
VIEW OF WRECKAGE
DISTRIBUTION
(MODIFIED BY
RESCUE CREWS)
VIEW TO NORTHWEST
(SEE TAB 09)



LEFT
ENGINE

SITE 2 (EAGLE LEAD)
TAIL NO. 88-26060

MAIN
TRANSMISSION

TAB R
VIEW OF WRECKAGE
AND MAIN
TRANSMISSION
VIEW TO NORTH
(SEE TAB 09)

TAB R
DIAGRAMS

R-1 TAOR and Restricted Operating Zone Diagrams

R-2 VID and Engagement Diagrams

R-3 Flight Scenario Diagram

R-4 E-3B AWACS Floor Plan


R-5 Panorama of Accident Area

R-6 UH-60 Black Hawk 88-26060 Flight Path Diagrams

R-7 UH-60 Black Hawk 88-26060 Crash Site (Site 2)

R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

R-1
R-2
R-3
R-4
R-5
R-6
R-7
R-8



SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000


MAIN
TRANSMISSION

TAB R
MAIN FUSELAGE
WRECKAGE
VIEW TO NORTH
(SEE TAB 09)

SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000



TAB R
WRECKAGE
DISTRIBUTION
VIEW TO SOUTHEAST
(SEE TAB 09)

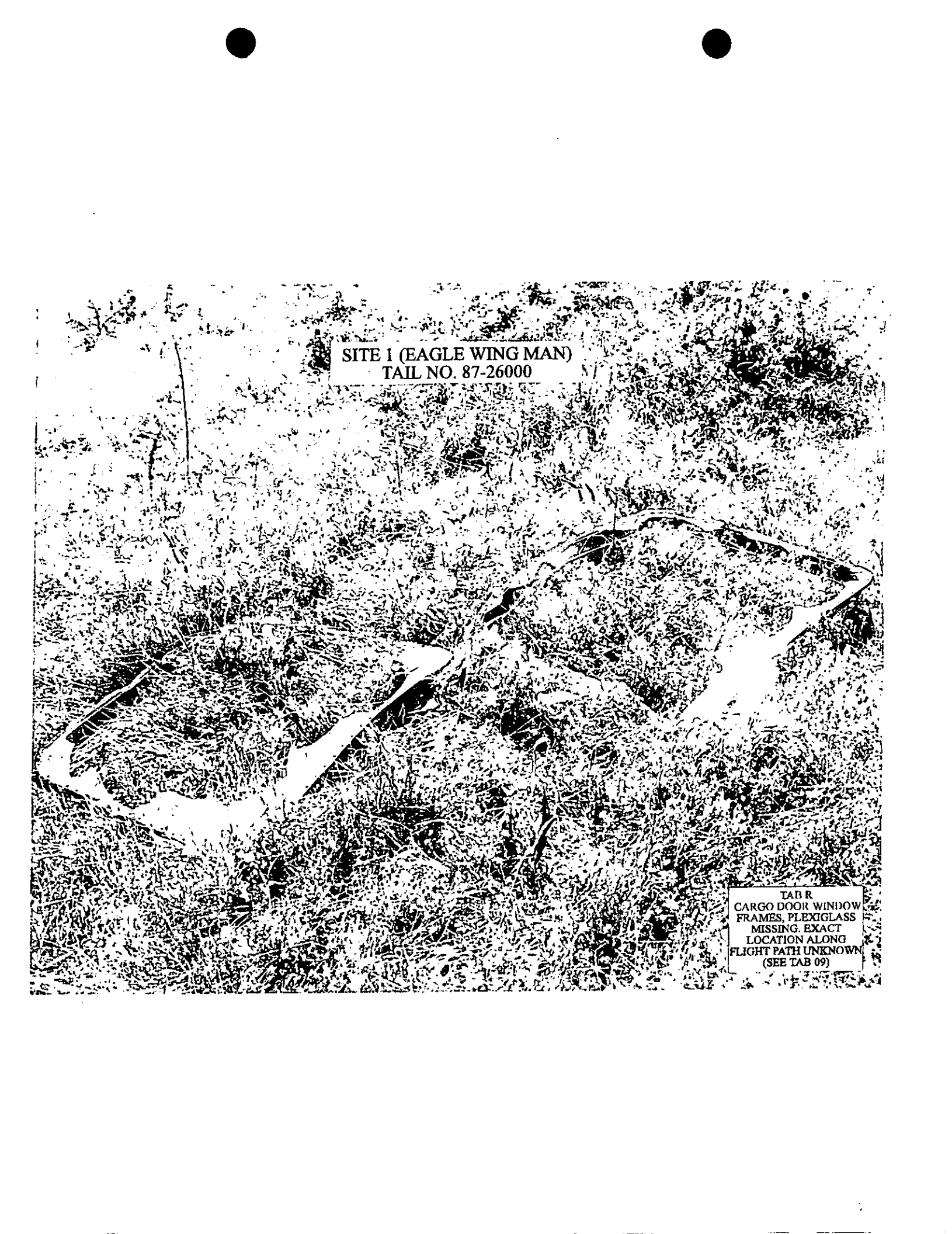


SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000

LEFT
EXTERNAL
FUEL
TANK

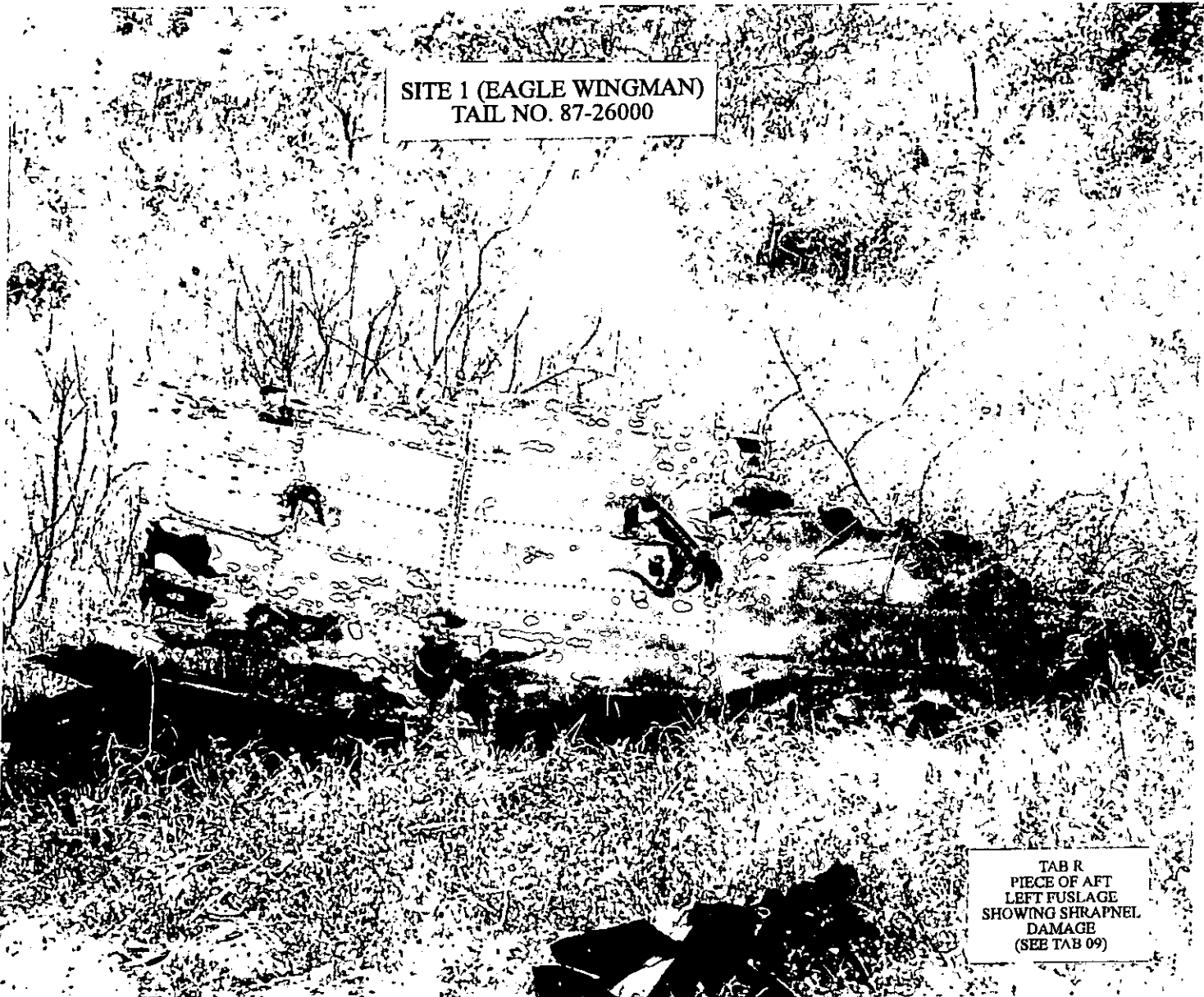
SECTION
OF
FLOOR
PLAN

TAB R
WRECKAGE DISTRIBUTION
VIEW FROM FUSELAGE
WRECKAGE TO
SOUTHEAST
(SEE TAB 09)



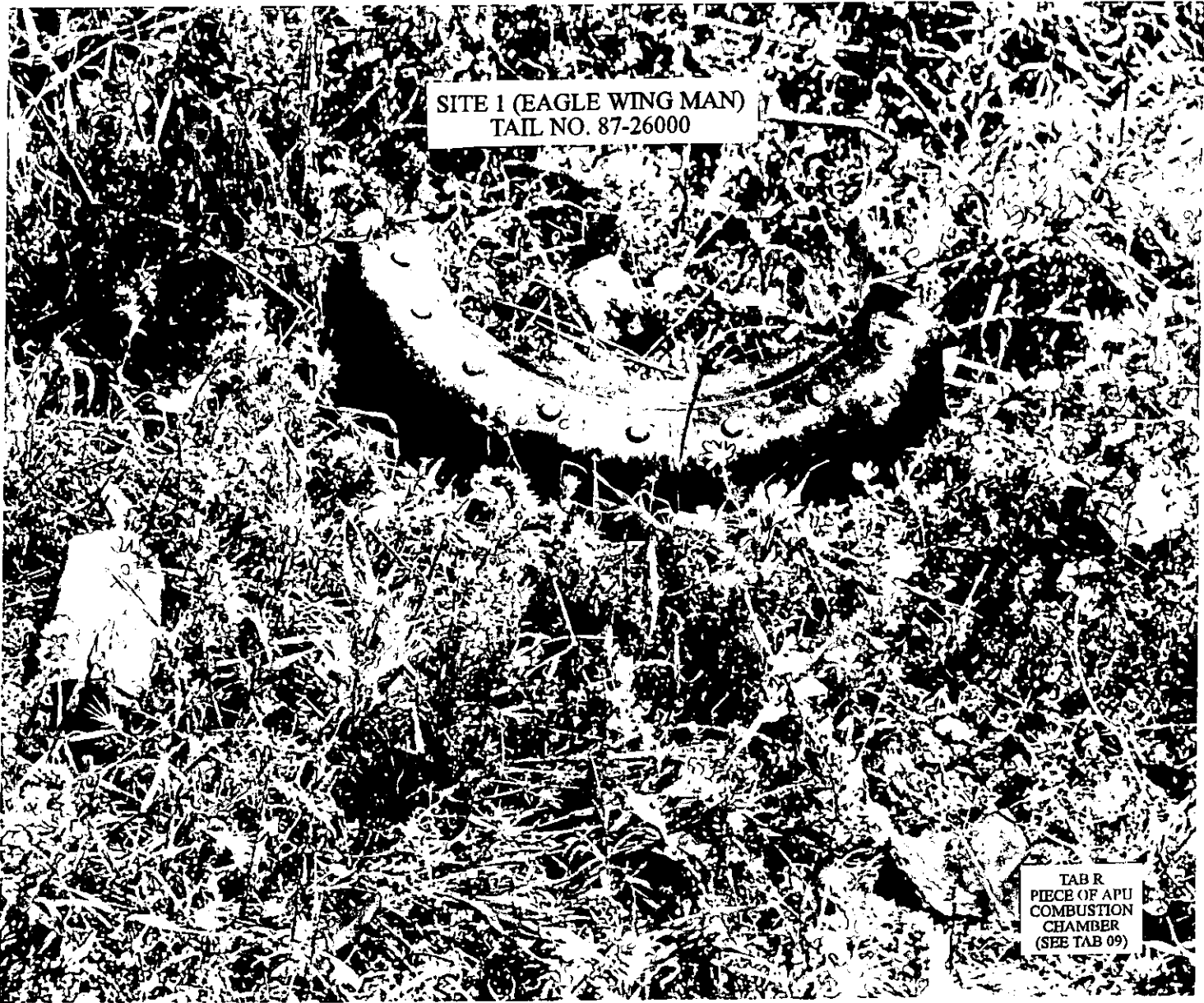
SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

TAB R
CARGO DOOR WINDOW
FRAMES, PLEXIGLASS
MISSING. EXACT
LOCATION ALONG
FLIGHT PATH UNKNOWN
(SEE TAB 09)




SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000

TAB R
PIECE OF AFT
LEFT FUSLAGE
SHOWING SHRAPNEL
DAMAGE
(SEE TAB 09)



SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

TAB R
PIECE OF APU
COMBUSTION
CHAMBER
(SEE TAB 09)

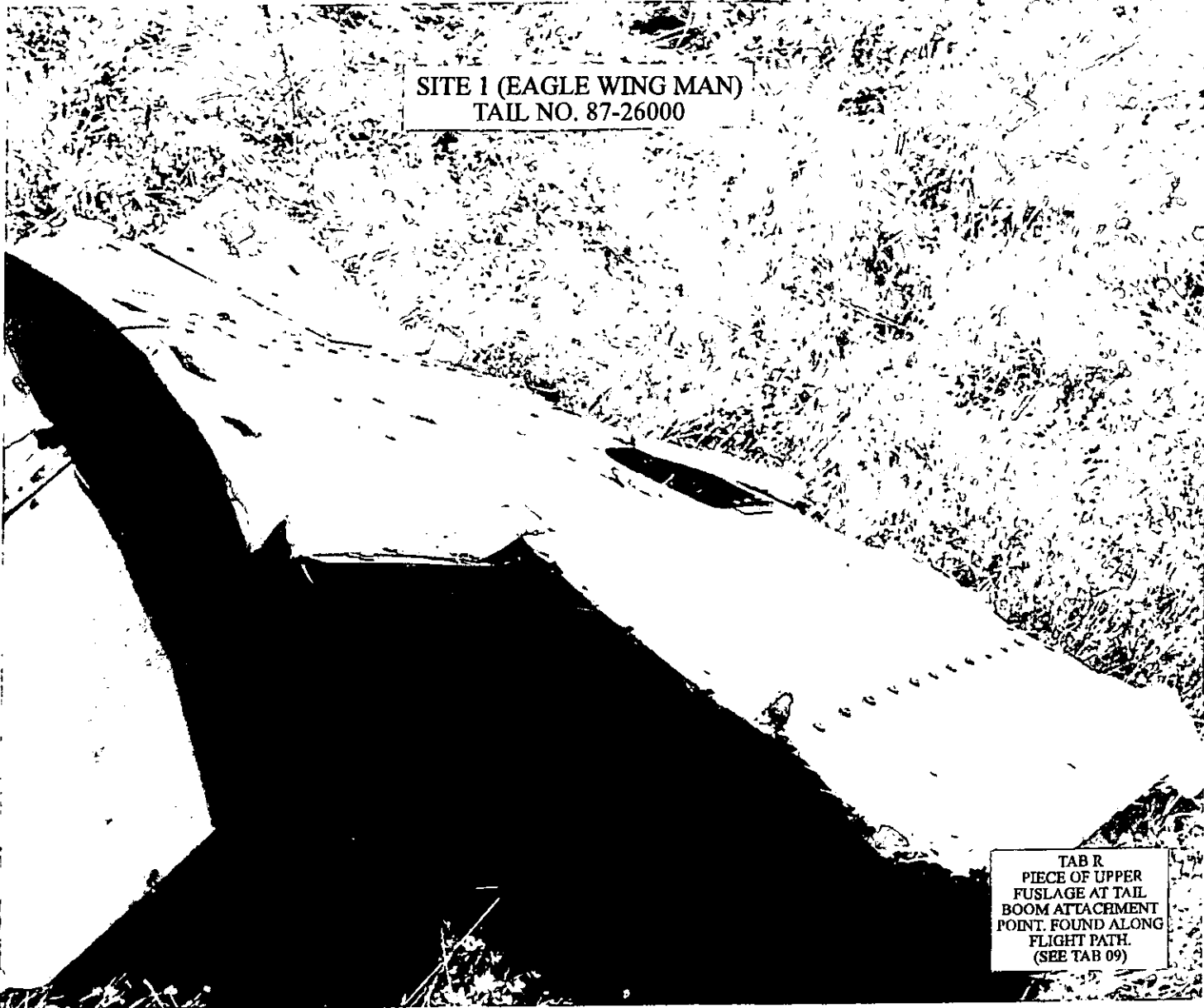


SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000

MAIN
TRANSMISSION


RIGHT
WHEEL
HUB

TAB R
MAIN FUSELAGE
WRECKAGE
VIEW TO NORTH
(SEE TAB 09)




SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

TAB R
PIECE OF UPPER
FUSLAGE AT TAIL
BOOM ATTACHMENT
POINT. FOUND ALONG
FLIGHT PATH.
(SEE TAB 09)



SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000

TAB R
FM RADIO (ARC-164)
SHOWING EXTENSIVE
BURN DAMAGE
(SEE TAB J1)



SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

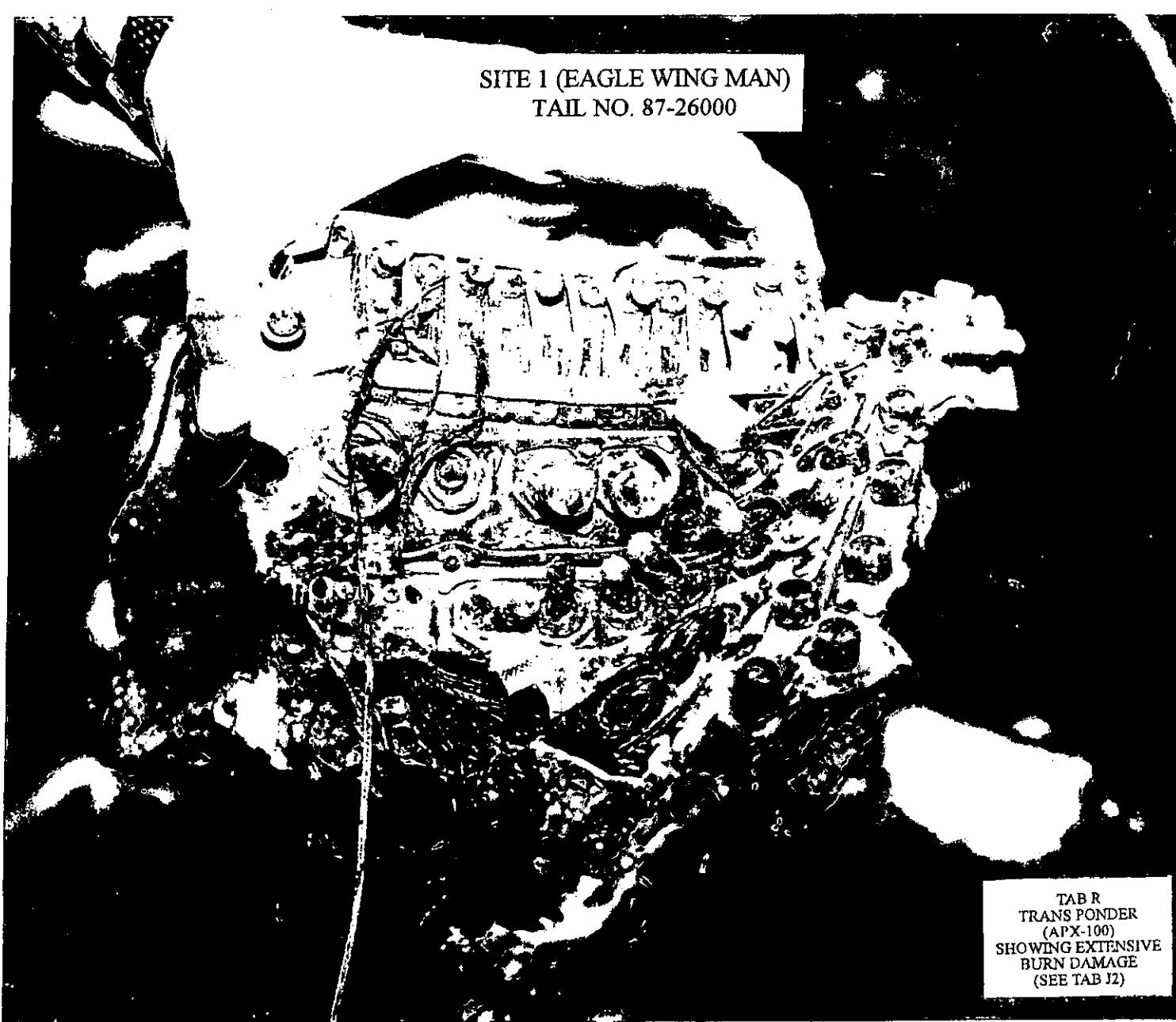
TAB R
CHAFF FROM THIS
DISPENSER WAS
FOUND 1,320 FEET
FROM MAIN WRECKAGE
(SEE TAB 09)

SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000



L-G V 40
DN

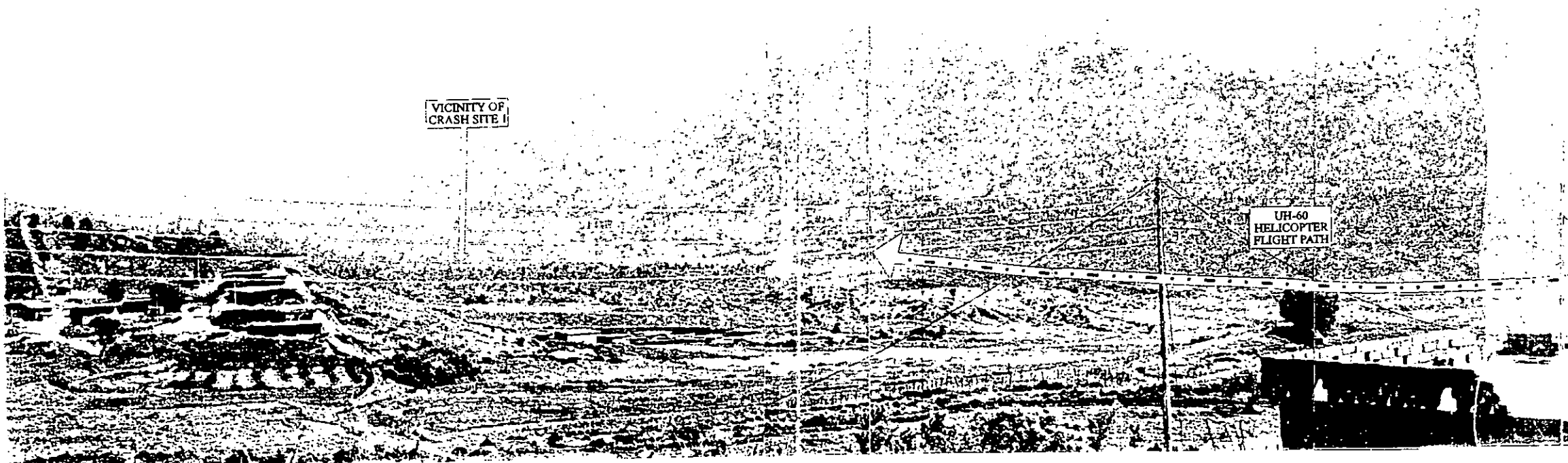
TAB R
AIR SPEED
INDICATOR
(SEE TAB 09)



SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

TAB R
TRANS PONDER
(APX-100)
SHOWING EXTENSIVE
BURN DAMAGE
(SEE TAB J2)

PANORAMA OF VALLEY
(Looking South)



INITIAL
IMPACT
POINT

MAIN
FUSELAGE





MAIN
FUSELAGE

RIGHT
EXTERNAL
FUEL
TANK



APPROX. FLIGHT
ROUTE OF
EAGLE LEAD

AREA
OF 3 CUT
TREES

CRASH
SITE 2

TAB R
VIEW OF EAGLE
LEAD'S ROUTE
IN RAVINE AND
CRASH SITE.
(SEE TAB 09)



APPROX. FLIGHT
ROUTE OF
EAGLE LEAD