

NOTE

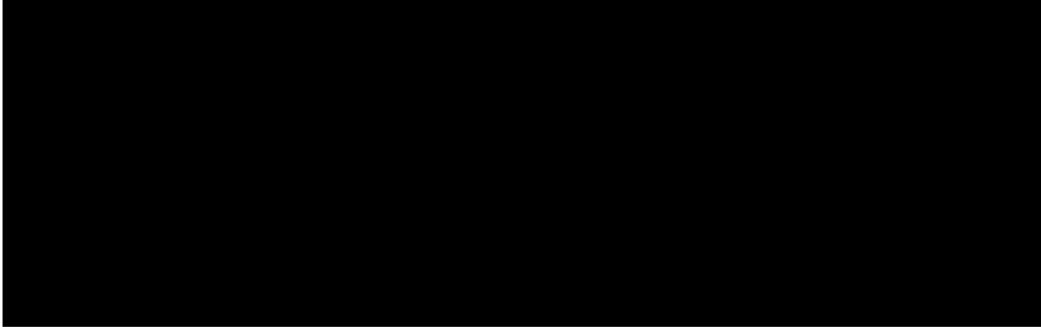
This is the first in a series of updated or supplementary items to be inserted in NPIC/R-58/69, Selected Radar Sites, North Vietnam, dated August 1969.

CATEGORY A

SECRET 25X1C
NOV 58/69
CATEGORY A

AIR WARNING/GROUND CONTROLLED INTERCEPT

The North Vietnamese AW/GCI radar site normally consists of an air search radar and a heightfinder. The most frequently observed combinations are the BAR LOCK or BIG BAR air search radars with the SIDE NET heightfinder, and the MOON FACE air search radar with ROCK CAKE/STONE CAKE heightfinder. The BAR LOCK/SIDE NET combination will often have one or more backup air warning radars such as the KNIFE REST B, SPOON REST A, or FLAT FACE radar.



REQUIREMENT

DIA 77-8 (DIAXX-2)
NPIC Project: 250134

25X1D

25X1D



A-1

Approved For Release 2000/05/10 : CIA-RDP78B04560A006800010054-5

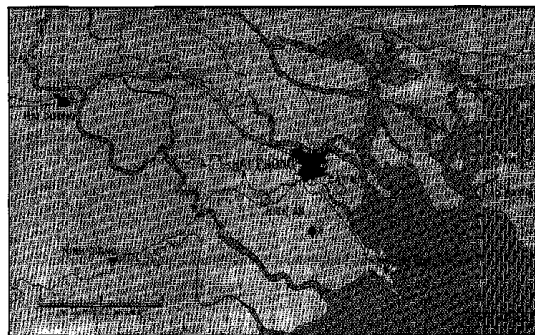
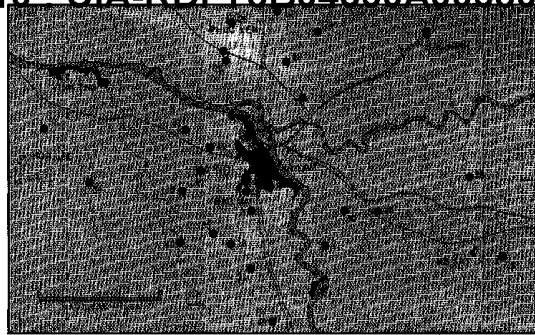
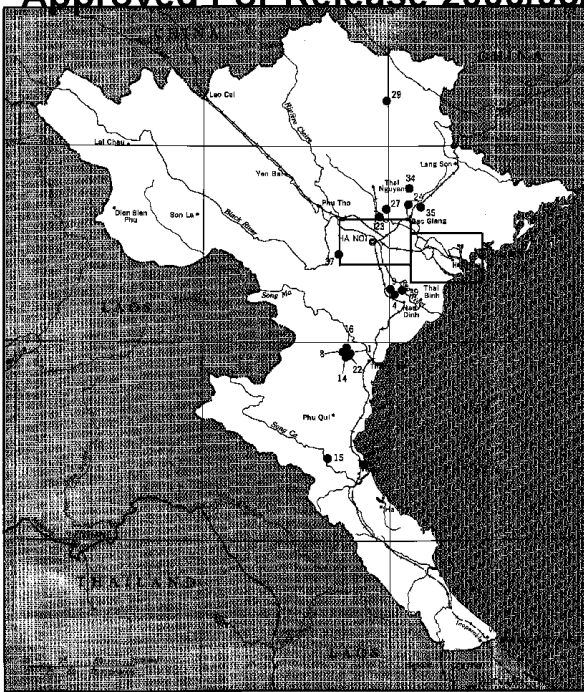


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25X1A

25X1A

Approved For Release 2000/05/10 : CIA-RDP78B04560A006800010054-5

SECRET 25X1G

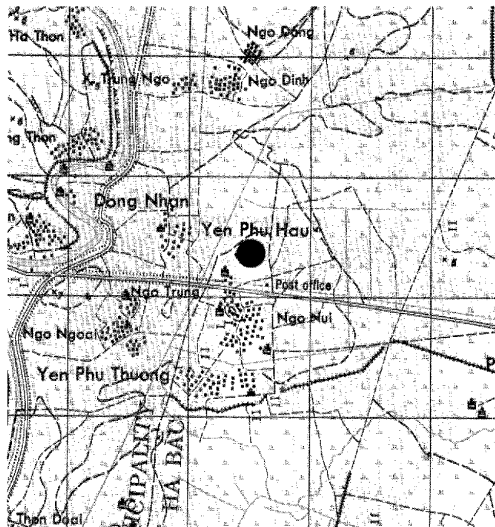
INSTALLATION OR ACTIVITY NAME		COUNTRY
Ngo Nui AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ 965444	21-12-02N 105-55-48E	
MAP REFERENCE		

25X1A

AMS Map Series L7014, Sheet 6151 II, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

The facility is located 6.9 nm east of Phuc Yen Airfield and consists of a small cleared area on a low hill. There are no vehicle revetments present.



25X1D [REDACTED] This facility was occupied in [REDACTED] by a BIG BAR radar; however, 25X1D it was unoccupied on [REDACTED]



25X1D

A-43

SECRET 25X1G

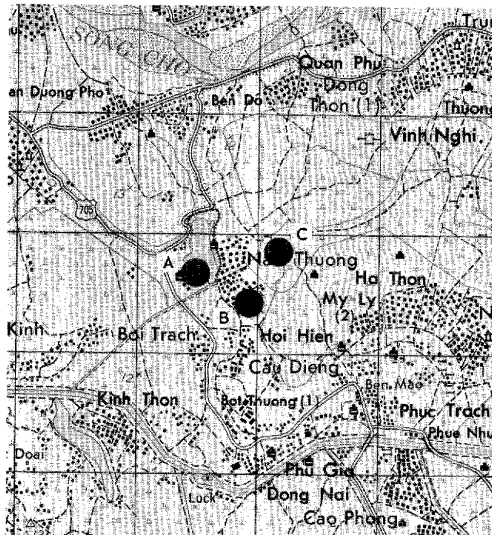
INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Bai Thuong/Tri Can AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
WH 557027	19-55-17N 105-31-58E		
MAP REFERENCE			

AMS Map Series L7014, Sheet 6148 IV, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

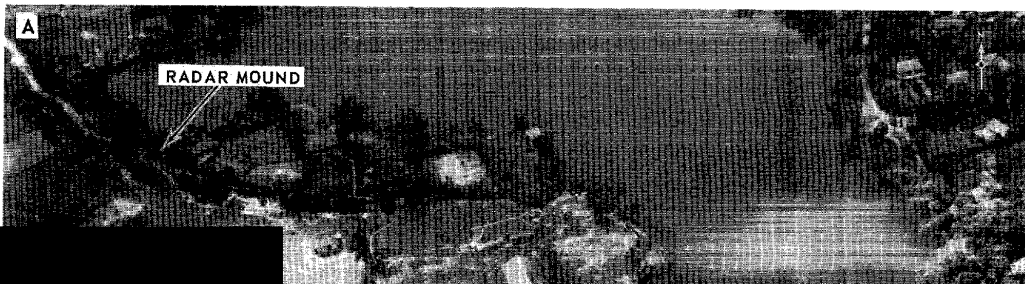
The facility is located 3.6 nm east-northeast of Bai Thuong Airfield and consists of three areas: Area A with one radar mound at UTM WH 554027; Area B with one radar mound at UTM WH 559025; and Area C at UTM WH 561029. Area C is unimproved.

This facility was occupied by a SIDE NET in Area A, BIG BAR in Area B, and a KNIFE REST B in Area C on

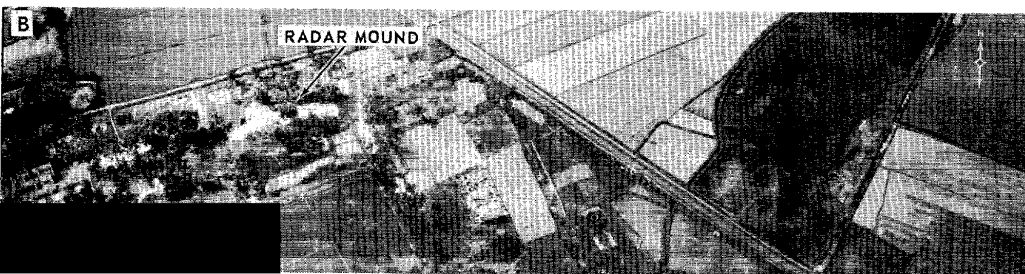


25X1D

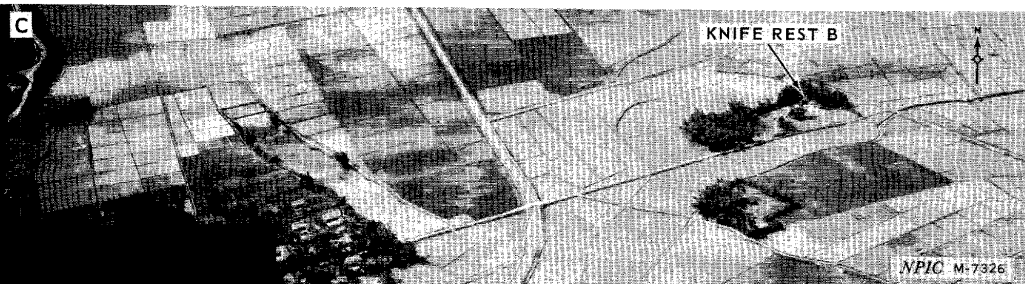
25X1D
25X1D



25X1D



25X1D



25X1D

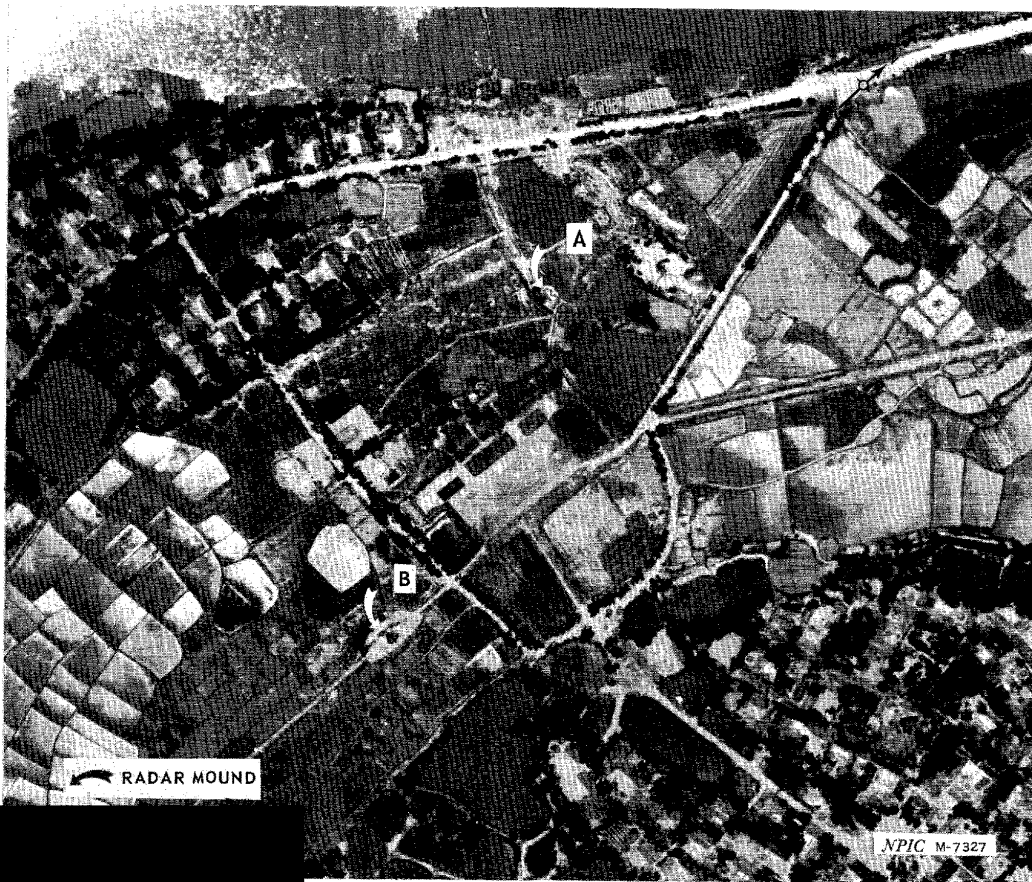
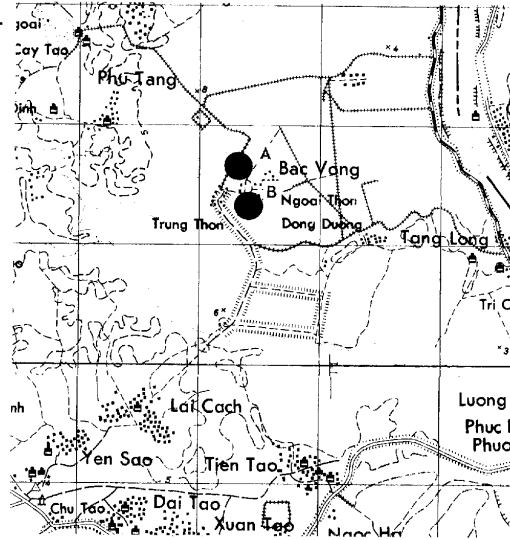
INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Bac Vong AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
WJ 943516	21-15-55N 105-54-33E		
MAP REFERENCE			

AMS Map Series L7014, Sheet 6151 I, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

The facility is located 6 nm north-east of Phuc Yen Airfield and consists of two areas: Area A with one mound at UTM WJ 943517 and Area B with one mound at UTM WJ 943514.

This facility was occupied by a BIG BAR in Area A and a SIDE NET in Area B in [REDACTED] however, it was unoccupied on [REDACTED]



25X1D

25X1D

25X1D

25X1D

A-47

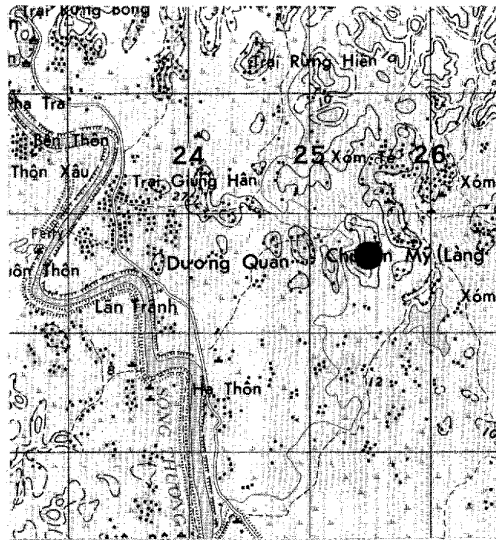
INSTALLATION OR ACTIVITY NAME		COUNTRY
Kep/Chuyen My AW/GCI Radar Facility 25X1A		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
XJ 253626	21-21-45N 106-12-32E	
MAP REFERENCE		

AMS Map Series L7014, Sheet 6251 IV, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

The facility is located 3.9 nm southwest of Kep Airfield and consists of a clearing for the radar and four vehicle revetments on a low hill.

25X1D This facility was occupied by a BIG BAR radar on [REDACTED]



25X1D



25X1D

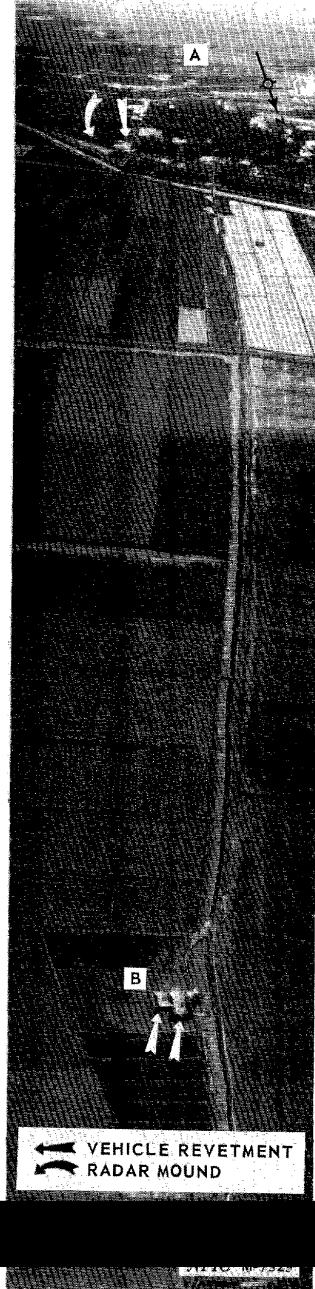
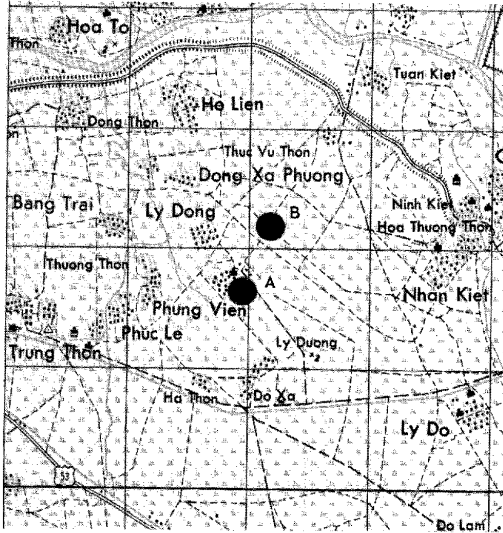
INSTALLATION OR ACTIVITY NAME		COUNTRY
Ke Sat AW/GCI Radar Facility		VN
25X1A		
UTM COORDINATES	GEOGRAPHIC COORDINATES	
XJ 240120	20-54-20N 106-11-31E	
MAP REFERENCE		

AMS Map Series L7014, Sheet 6250 IV, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility is located 2.4 nm east of Ke Sat and consists of two areas: Area A with one radar mound and one vehicle revetment at UTM XJ 239118; and Area B with one normal size and one smaller vehicle revetment at UTM XJ 242123.

This facility has not been observed occupied.

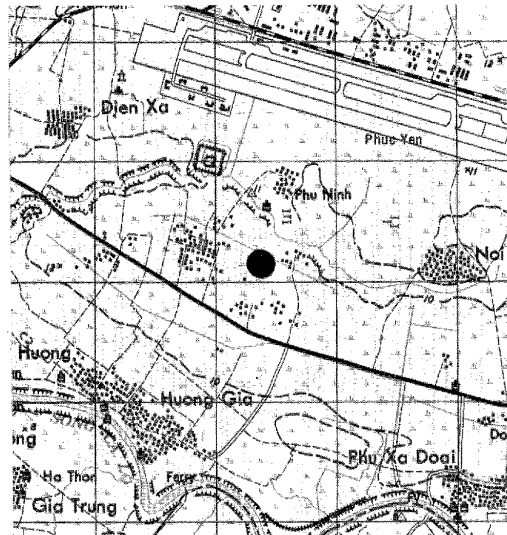


25X1D

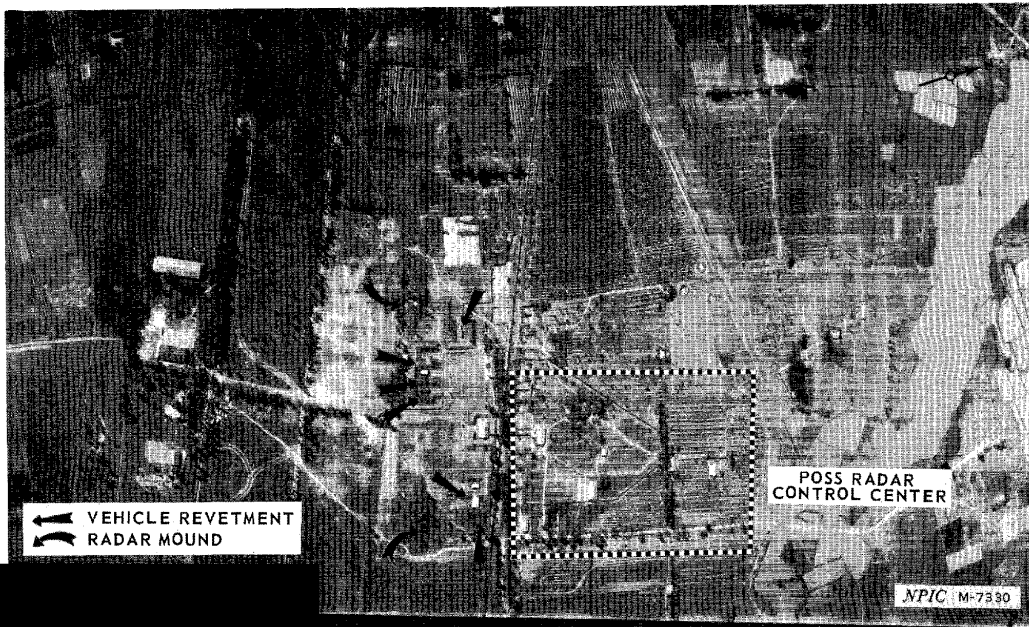
INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Phuc Yen/Dong Lai AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
WJ 833452	21-12-29N 105-48-11E		
MAP REFERENCE			
AMS Map Series L7014, Sheet 6151 II, scale 1:50,000			

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

25X1D The facility is located 1 nm south of Phuc Yen Airfield and consists of two radar mounds, one with four adjacent vehicle revetments and one with two adjacent vehicle revetments. A possible radar control center is located immediately north of the radar facility. When this installation was observed on good photography in [REDACTED] cables could be seen leading from the radar equipment to this control center.



25X1D This facility was unoccupied before [REDACTED] however, on [REDACTED] was occupied by a BAR LOCK and a SIDE NET radar.



25X1D [REDACTED]

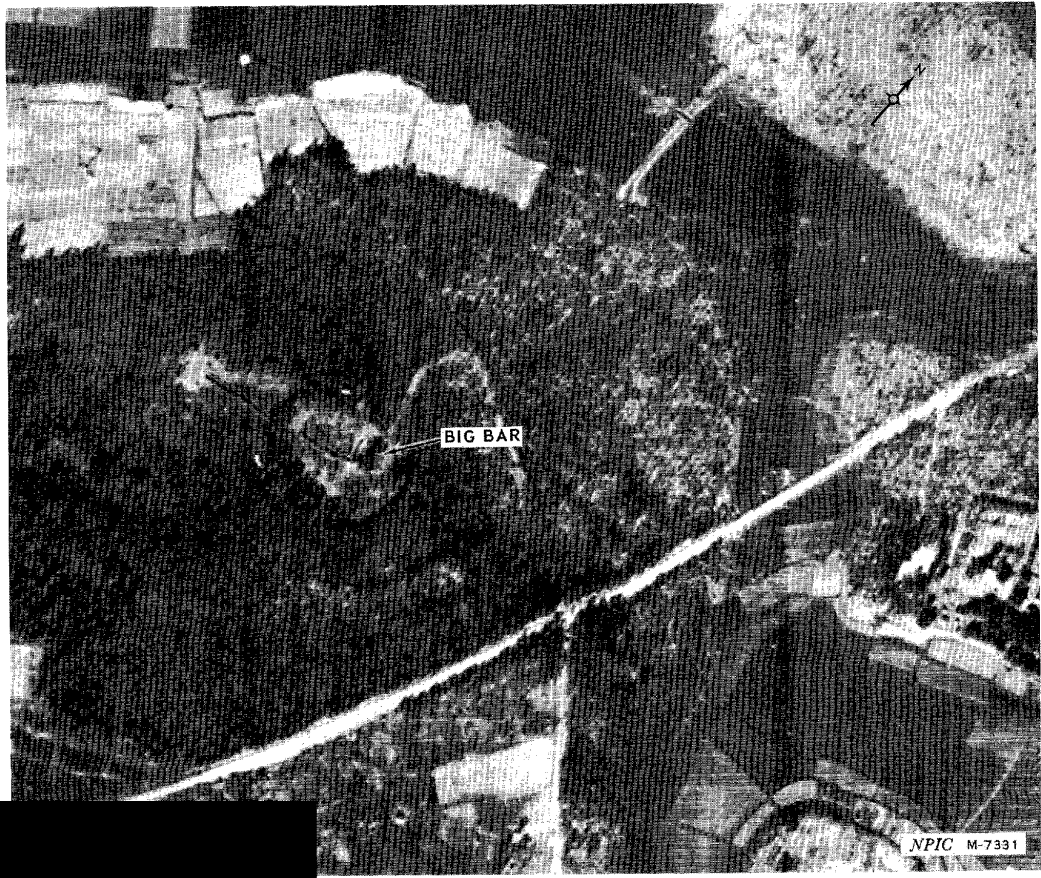
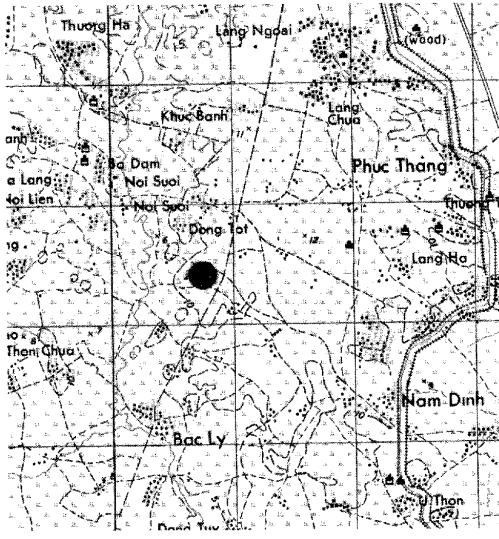
INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Pho Co/Duc Thang AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
XJ 007575	21-19-07N 105-58-19E		
MAP REFERENCE			

AMS Map Series L7014, Sheet 6151 I, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility is located 17.8 nm west-southwest of Kep Airfield and consists of a clearing on a low wooded hill with no mounds or revetments.

This facility was occupied by a BIG BAR radar in [redacted] however, it was 25X1D unoccupied on [redacted].



INSTALLATION OR ACTIVITY NAME					COUNTRY	
Hanoi/Tang My AW/GCI Radar Facility					VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	NIETR NO.	
WJ 826408	21-10-05N 105-47-42E					
MAP REFERENCE						

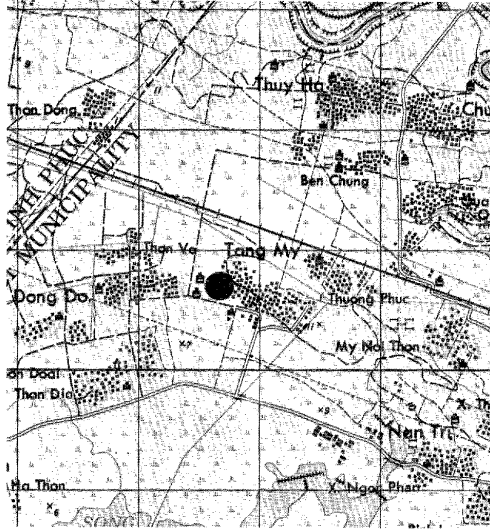
AMS Map Series L7014, Sheet 6151 II, scale 1:50,000 **25X1A**

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

The facility is located 3.2 nm south of Phuc Yen Airfield and consists of two radar mounds.

This facility was occupied by a BAR LOCK and a SIDE NET radar almost continuously from [REDACTED] through [REDACTED]. It has not been observed occupied since [REDACTED].

25X1D
25X1D
25X1D



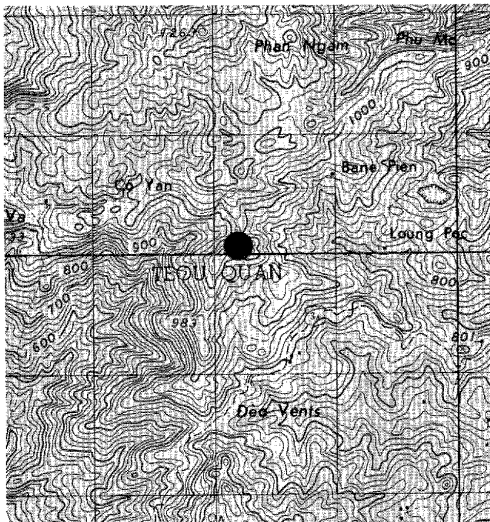
25X1D

INSTALLATION OR ACTIVITY NAME		COUNTRY
Ngan Son AW/GCI Radar Facility		VN
25X1A		
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WK 982801	22-25-32N 105-57-15E	
MAP REFERENCE		

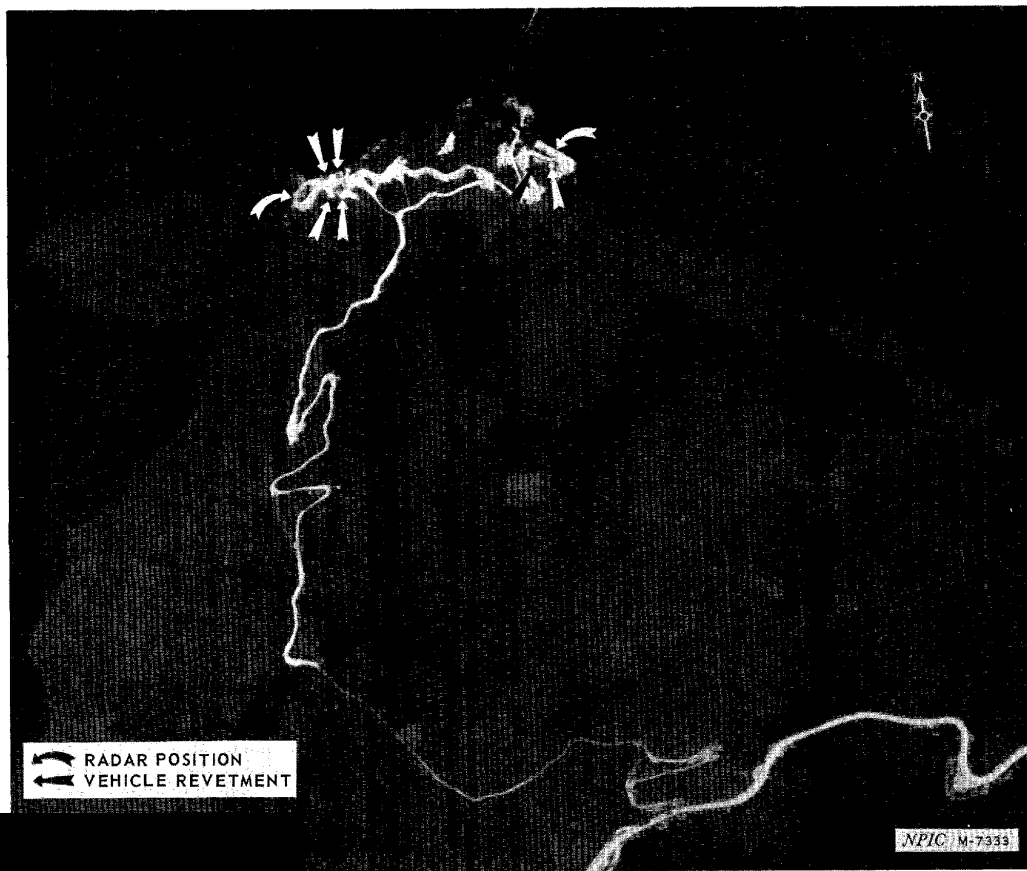
AMS Map Series L7014, Sheet 6153 I, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

The facility is located on a ridge 2.9 nm west of Ngan Son and 25.5 nm southwest of Cao Bang and consists of two radar positions, one with four adjacent vehicle revetments and one with two adjacent vehicle revetments, and



This facility had been occupied by a BIG BAR and a SIDE NET radar; however, it was unoccupied on [REDACTED]



SECRET
NO FOREIGN DISSEM

25X1C

NPIC/R-58/69-1

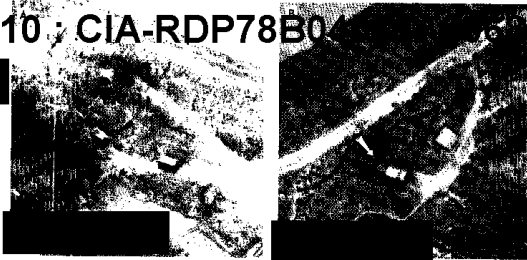
Approved For Release 2000/05/10 : CIA-RDP78B04560A006800010054-5

INSTALLATION NAME: Thuong Che AV/OC1 Radar Facility

UTM COORDINATES: XJ 012186 20-57-58N 105-58-28E

MAP REFERENCE: AMS Map Series L7014, Sheet 6150 I, scale 1:50,000

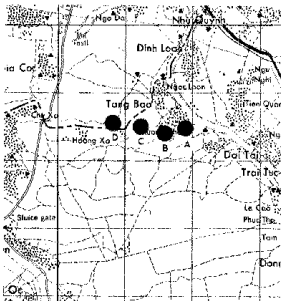
LATEST IMAGE USED: [REDACTED] NEGATION DATE: N/A



00010054-5

25X1D

The facility is located 6.4 nm southeast of Hanoi/Gia Lam Airfield and consists of four areas: Area A with one mound and one vehicle revetment at UTM XJ 019184; Area B with one vehicle revetment at UTM XJ 016184; Area C with one mound and four adjacent vehicle revetments at UTM XJ 013185; and Area D with two vehicle revetments at UTM XJ 009185.



25X1D

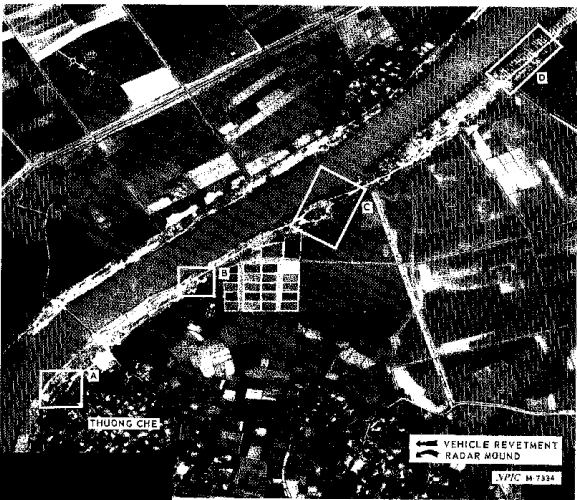
25X1D

25X1D

This facility was occupied on [REDACTED] by a SIDE NET in Area A, a van truck with a possible DISPHONE in Area B, a BAR LOCK in Area C, and a SPOON REST in Area D.



25X1D



25X1D



25X1D

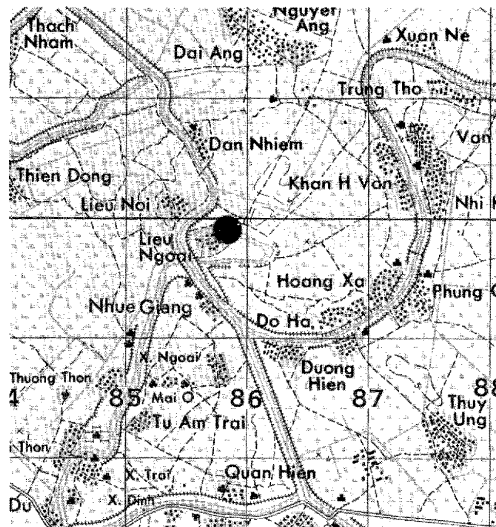
SECRET
NO FOREIGN DISSEM

Approved For Release 2000/05/10 : CIA-RDP78B04560A006800010054-5

INSTALLATION OR ACTIVITY NAME		COUNTRY
Hanoi/Lieu Ngoai AW/GCI Radar Facility 25X1A		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ 859099	20-53-21N 105-49-34E	
MAP REFERENCE		
AMS Map Series L7014, Sheet 6151 I, scale 1:50,000		
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D		NA

The facility is located 6.2 nm south-southwest of Hanoi/Bac Mai Airfield and consists of one radar mound with four adjacent vehicle revetments.

This facility has not been observed occupied on photography.



25X1D

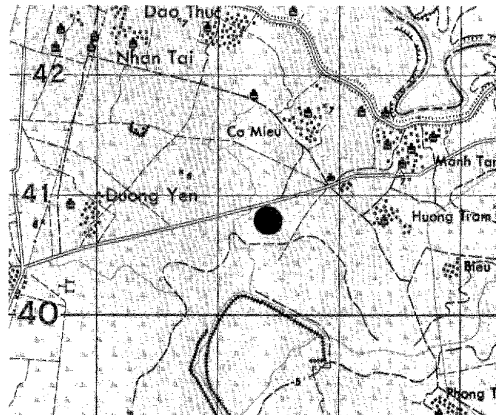
INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Tan Nguan/Duong Yen AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
WJ 923408	21-10-05N 105-53-22E		
MAP REFERENCE			

AMS Map Series L7014, Sheet 6151 II, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility is located 5.5 nm southeast of Phuc Yen Airfield and consists of two radar mounds, one with four adjacent vehicle revetments and one with two adjacent vehicle revetments, and one storage revetment.

This facility has not been observed occupied on photography.



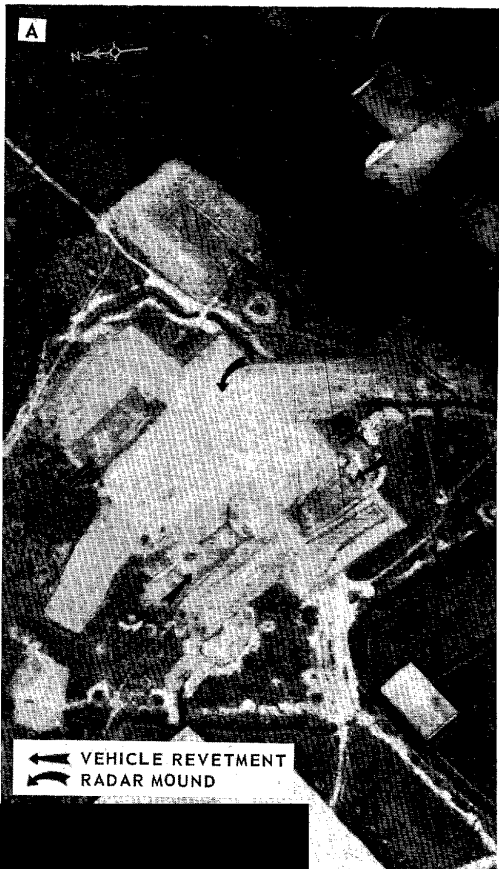
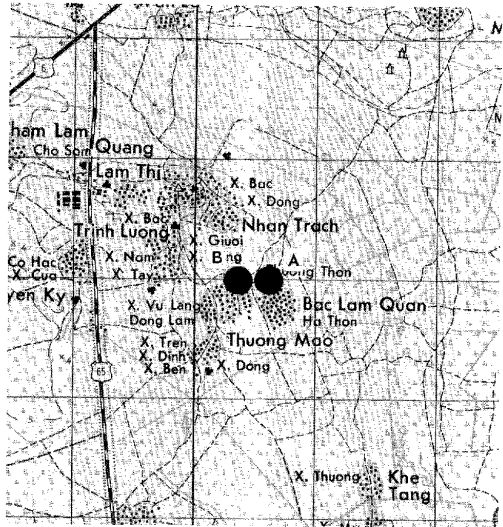
INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Hanoi/Thuong Thon AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
WJ 805150	20-56-05N 105-46-25E		
MAP REFERENCE			

AMS Map Series L7014, Sheet 6150 I, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility is located 4.9 nm southwest of Hanoi/Bac Mai Airfield and consists of two areas: Area A with one radar mound and four adjacent vehicle revetments at UTM WJ 806150, and Area B with one radar mound, two vehicle revetments, and one storage revetment at UTM WJ 804150.

This facility has not been seen occupied on photography.



25X1D

25X1D

A-67

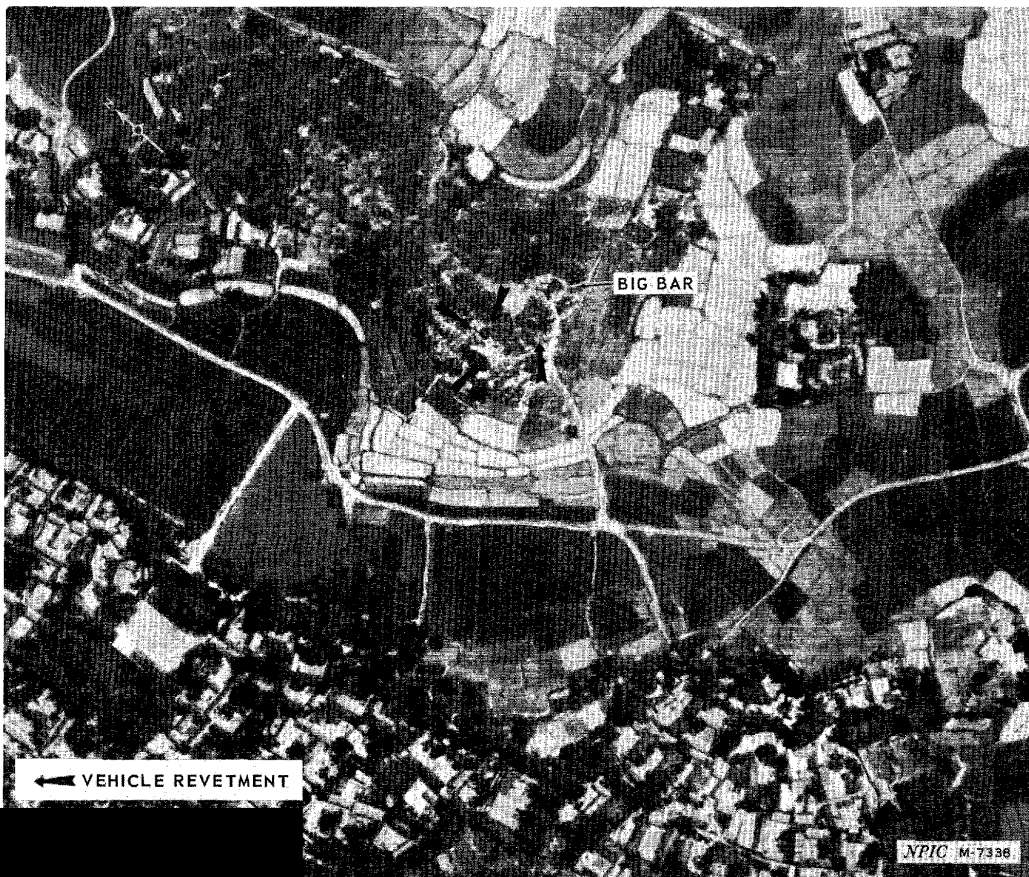
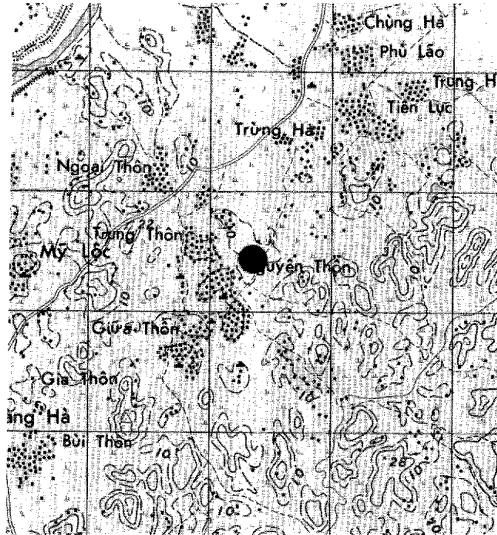
INSTALLATION OR ACTIVITY NAME		COUNTRY
Kep/Nguyen Thon AW/GCI Radar Facility 25X1A		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
XJ 243675	21-24-26N 106-11-58E	
MAP REFERENCE		

AMS Map Series L7014, Sheet 6251 IV, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

The facility is located 3.8 nm west-northwest of Kep Airfield and consists of a clearing with four adjacent vehicle revetments on a low wooded hill.

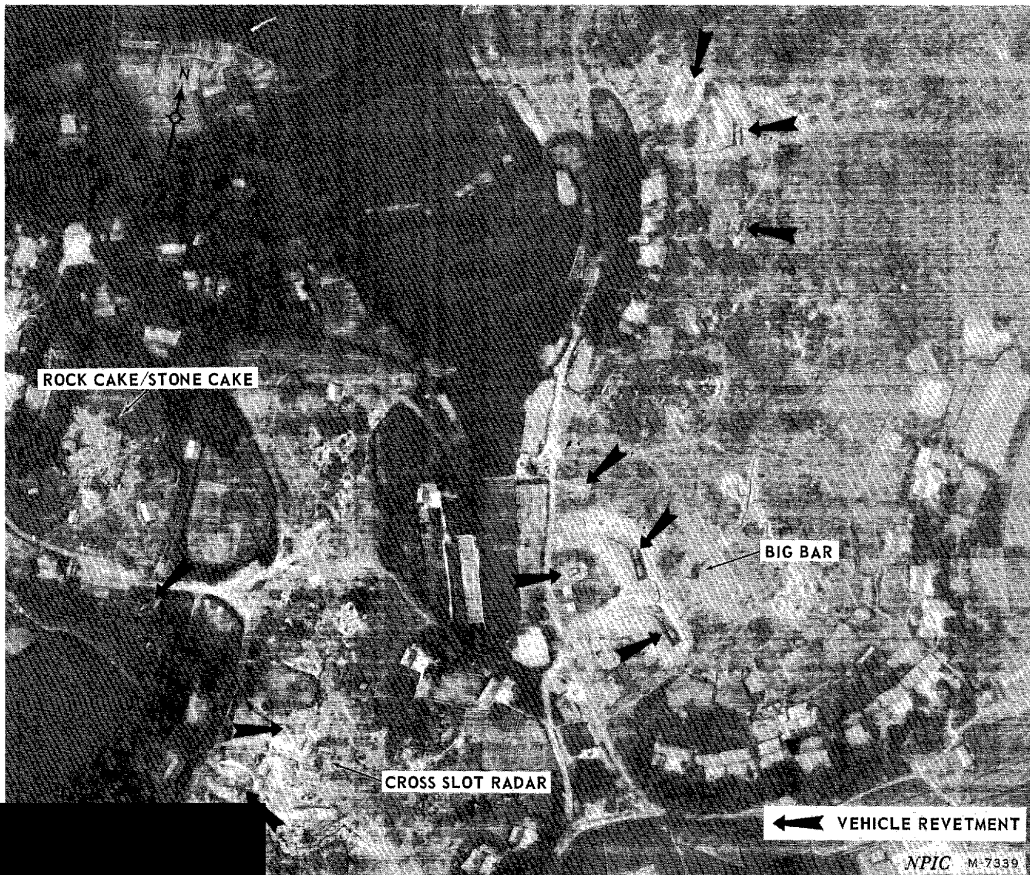
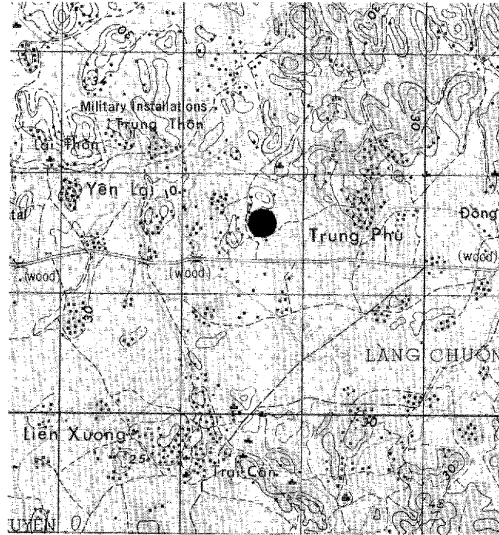
This facility was occupied by a BIG BAR radar in [REDACTED] however, it was unoccupied on [REDACTED]



INSTALLATION OR ACTIVITY NAME		COUNTRY
Kep AW/GCI Radar Facility		VN
25X1A		
UTM COORDINATES	GEOGRAPHIC COORDINATES	
XJ 336616	21-21-14N 106-17-17E	
MAP REFERENCE		
AMS Map Series L7014, Sheet 6251 I, scale 1:50,000		
LATEST IMAGERY USED	NEGATION DATE (if required)	
25X1D	NA	

The facility is located 2.7 nm southeast of Kep Airfield and consists of several clearings and vehicle revetments on two low hills.

This facility has been observed occupied by BIG BAR, CROSS SLOT, and ROCK CAKE/STONE CAKE radars in the clearings and support vans and trucks in the revetments; however, no radars were identified on [REDACTED]. Several van trucks and trailers were present.



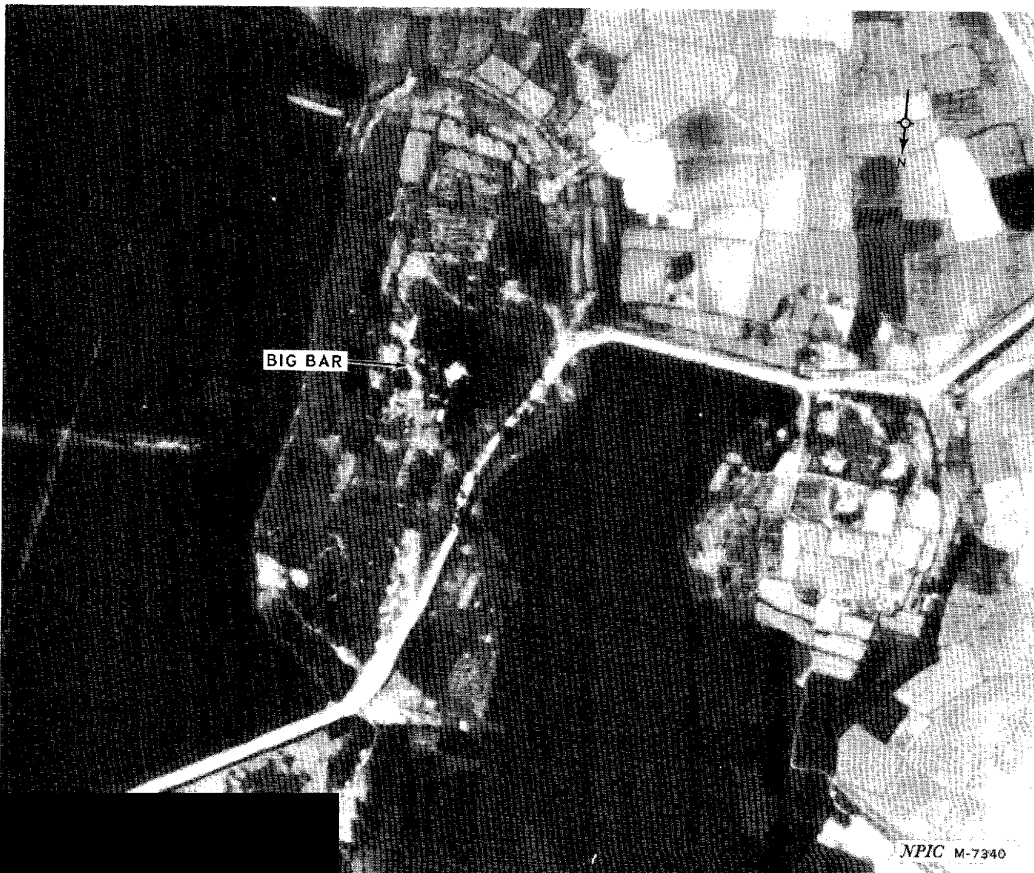
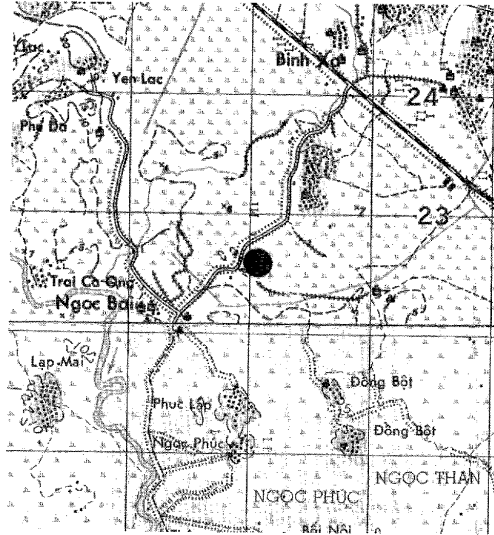
INSTALLATION OR ACTIVITY NAME		COUNTRY
Hoa Lac AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ 630227	21-00-19N 105-36-21E	25X1A
MAP REFERENCE		

AMS Map Series L7014, Sheet 6151 III, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

The facility consists of a clearing on a low wooded hill 6.0 nm east-south-east of Hoa Lac Airfield. It was occupied by a BIG BAR radar on [REDACTED]

25X1D
25X1D



25X1D

NPIC M-7340

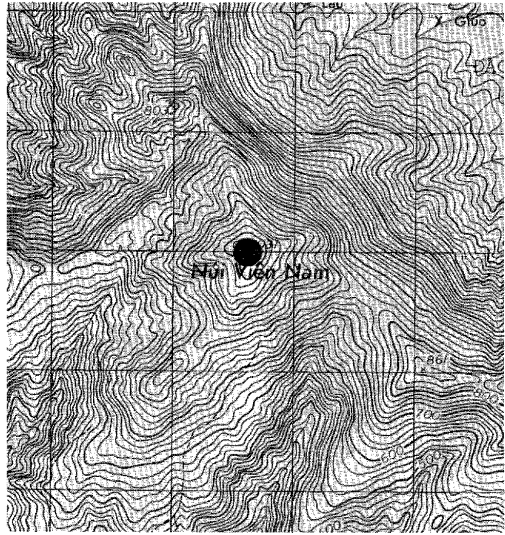
INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Hoa Lac/Nui Vien Nam AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
WJ 466170	20-57-17N 105-26-54E		
MAP REFERENCE			

AMS Map Series L7014, Sheet 6050 I, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

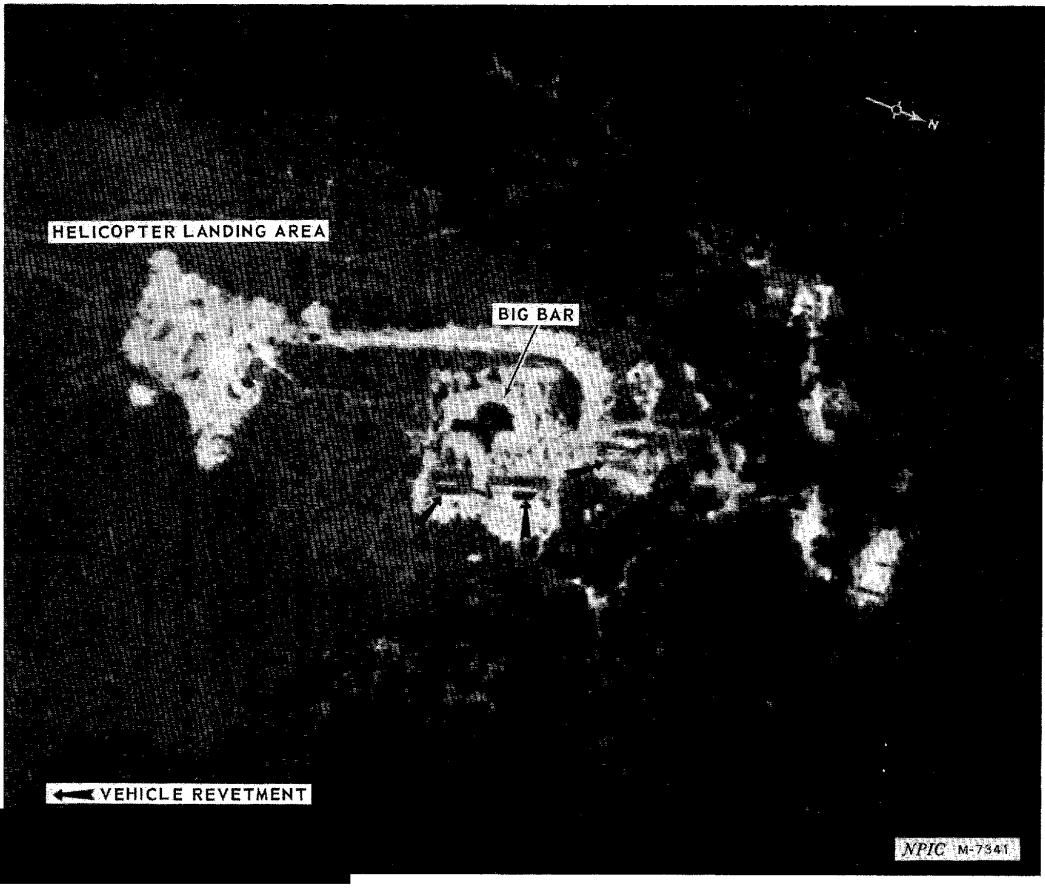
The facility is located on top of a mountain 5.5 nm southwest of Hoa Lac Airfield and consists of a clearing for the radar, three vehicle revetments, and a helicopter landing area.

This facility, which is inaccessible by road, was occupied by a probable BIG BAR radar in [REDACTED]. On [REDACTED] [REDACTED] it was unoccupied, although unidentified equipment was present.



25X1D

25X1D
25X1D
25X1D



25X1D

SECRET

25X1C

NPIC/P 58/69-1

INSTALLATION OR ACTIVITY NAME	25X1A	COUNTRY
Son Tay/Chieu Dong AW/GCI Radar Facility		VN

UTM COORDINATES	GEOGRAPHIC COORDINATES
WJ 555304	21-04-30N 105-32-05E

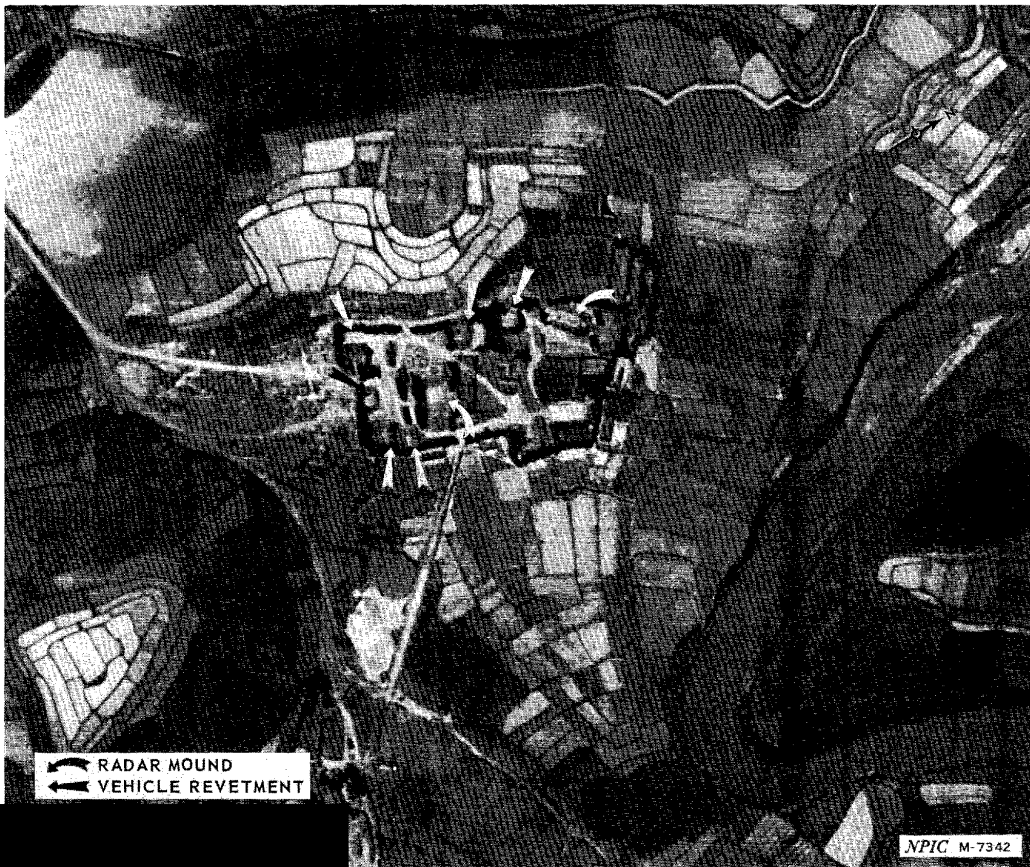
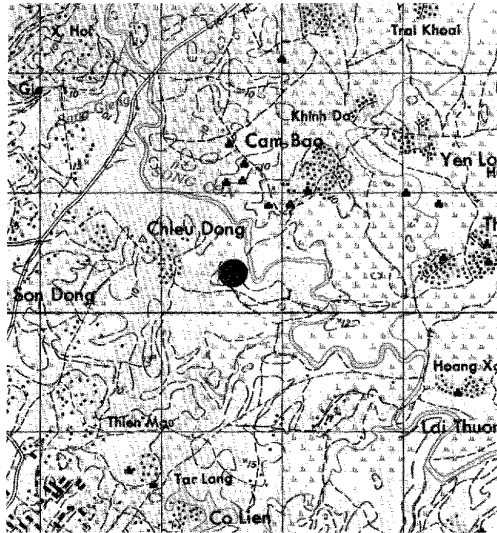
MAP REFERENCE

AMS Map Series L7014, Sheet 6151 III, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility, located 3.7 nm northeast of Hoa Lac Airfield, consists of two radar mounds and six vehicle revetments.

This facility was occupied by a BAR LOCK and SIDE NET radar in [redacted] however, in [redacted] the radars could not be identified although van trucks or van trailers were present.



NPIC M-7342

25X1D

A-77

SECRET

25X1C

INSTALLATION OR ACTIVITY NAME	25X1A	COUNTRY
Hung Yen/Xom Ngoai AW/GCI Radar Facility		VN

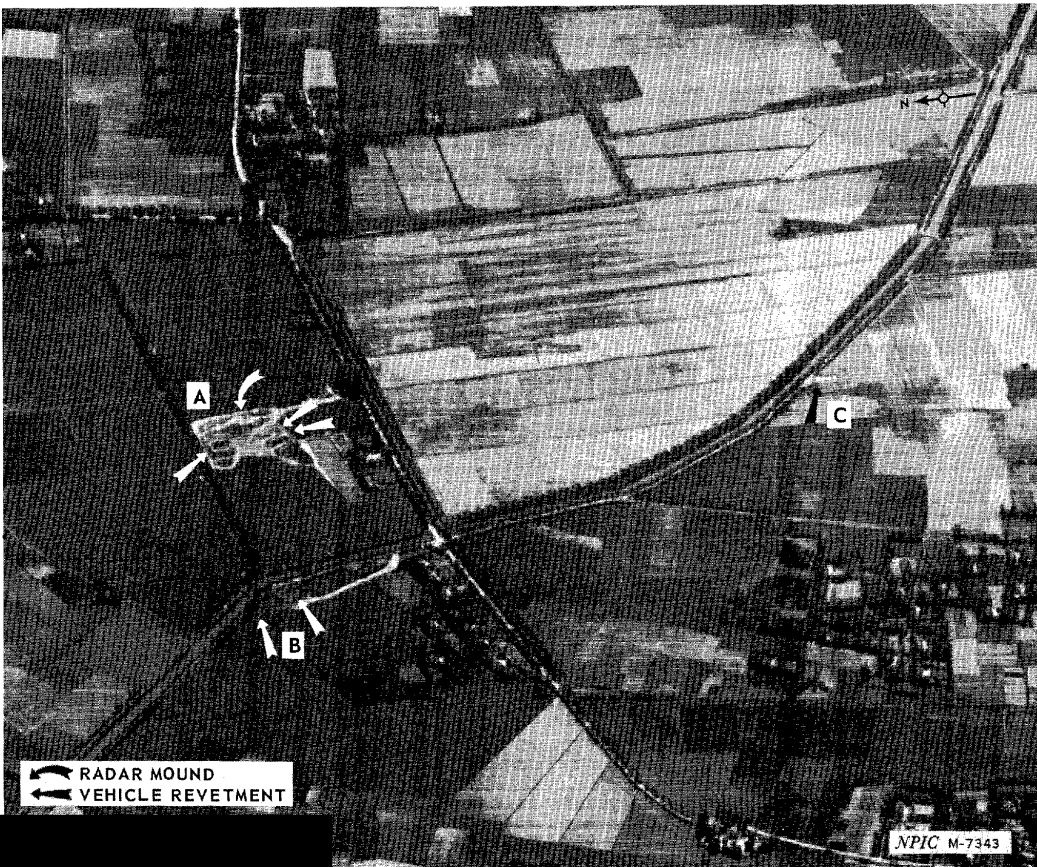
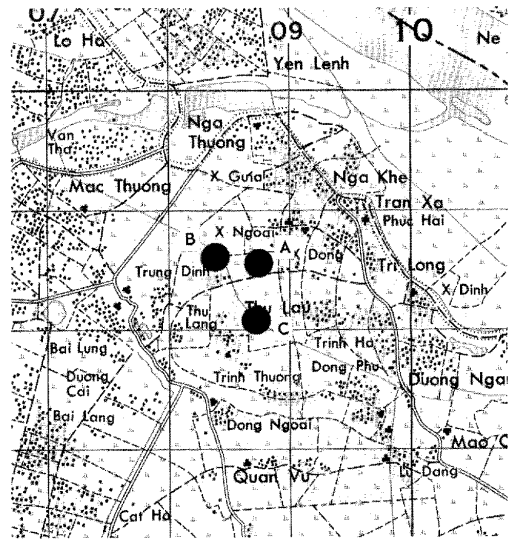
UTM COORDINATES	GEOGRAPHIC COORDINATES
XH 068784	20-36-12N 106-02-33E

MAP REFERENCE
 AMS Map Series L7014, Sheet 6250 III, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility is located 2.7 nm south-southwest of Hung Yen and consists of three areas: Area A with one radar mound and three vehicle revetments at UTM XH 087786; Area B with two vehicle revetments at UTM XH 084787; and Area C with one vehicle revetment at UTM XH 087781.

This facility has been observed occupied by a STONE CAKE radar; however, it was unoccupied on



25X1D

SECRET

NPIC/R-58/69-1

25X1A

25X1C

Approved For Release 2000/05/10 : CIA-RDP78B04560A006800010054-5

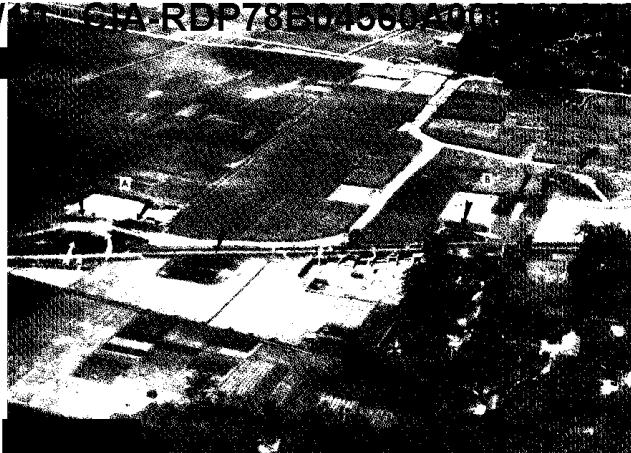
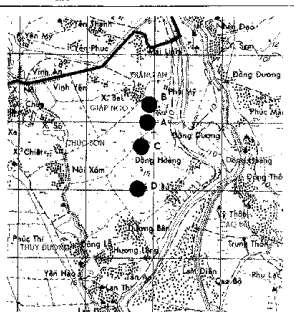
INSTALLATION OR FACILITY NAME	Phu My/Phuc Cau AN/CFE Radar Facility	
UTM COORDINATES	GEOGRAPHIC COORDINATES	1971
WJ 759125	20-54-48N 105-43-50E	
MAP REFERENCE		

AHS Map Series L701h, Sheet 6150 IV, scale 1:50,000

DATE OF IMAGE CAPTURED	LOCATION DATE (if known)
	NA

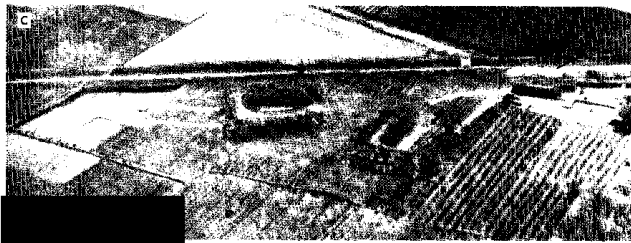
The facility is located 4.4 nm southwest of Ha Dung and consists of four areas: Area A with one radar mound and four adjacent vehicle revetments at UTM WJ 759130; Area B with one radar mound and two vehicle revetments at UTM WJ 759132; Area C with two vehicle revetments at UTM WJ 758127; and Area D with two radar mounds at UTM WJ 757120. This installation was previously reported as two facilities -- Phu My and Phuc Cau.

This facility was occupied by BAR LOCK and SIDE NET radars in areas A and B on [REDACTED]



054-5

25X1D



25X1D

25X1D
25X1D

A-81

SECRET

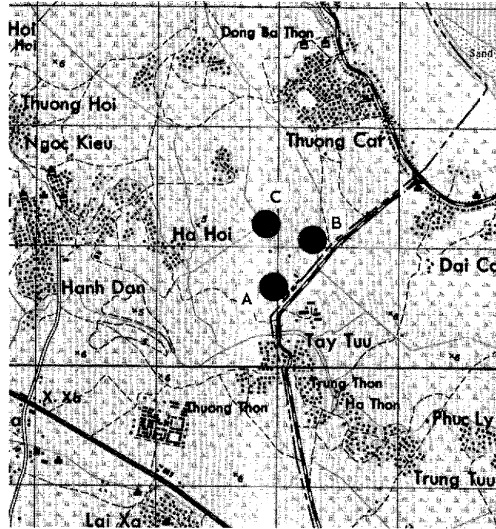
NO FOREIGN DISSEM

INSTALLATION OR ACTIVITY NAME		COUNTRY
Tay Tuu AW/GCI Radar Facility		VN
25X1A		
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ 761309	21-04-47N 105-43-58E	
MAP REFERENCE		
AMS Map Series L7014, Sheet 6151 III, scale 1:50,000		
LATEST IMAGERY USED	NEGATION DATE (if required)	
	NA	

25X1D

The facility is located 7.2 nm northeast of Hanoi and consists of three areas: Area A with one radar mound at UTM WJ 760307; Area B with one radar mound and two vehicle revetments at UTM WJ 762311; and Area C with two vehicle revetments at UTM WJ 759312.

This facility has not been seen occupied on photography.

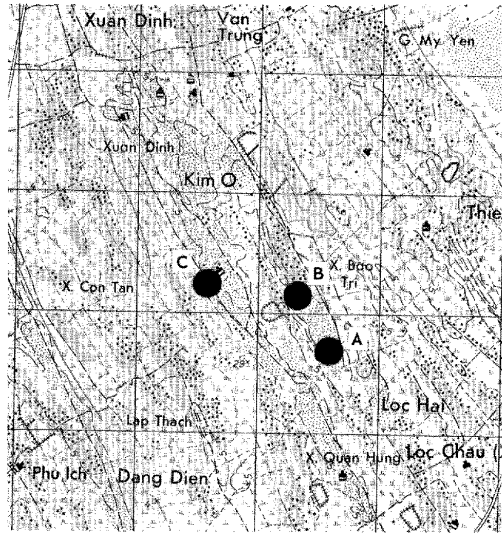


25X1D

INSTALLATION OR ACTIVITY NAME		COUNTRY
Vinh AF/Bao Tri AW/GCI Radar Facility 25X1A		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WF 760750	18-46-00N 105-43-16E	
MAP REFERENCE		
Ams Map Series L7014, Sheet 6146 IV, scale 1:50,000		
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D		NA

The facility is located 3.5 nm northeast of Vinh Airfield and consists of three areas: Area A with one radar mound and two vehicle revetments at UTM WF 766747; Area B with one vehicle revetment at UTM WF 763751; and Area C with two vehicle revetments at UTM WF 756753.

This facility has not been observed occupied on photography.



25X1D

25X1D

INSTALLATION OR ACTIVITY NAME		COUNTRY
Vinh Mo AW/GCI Radar Facility		VN

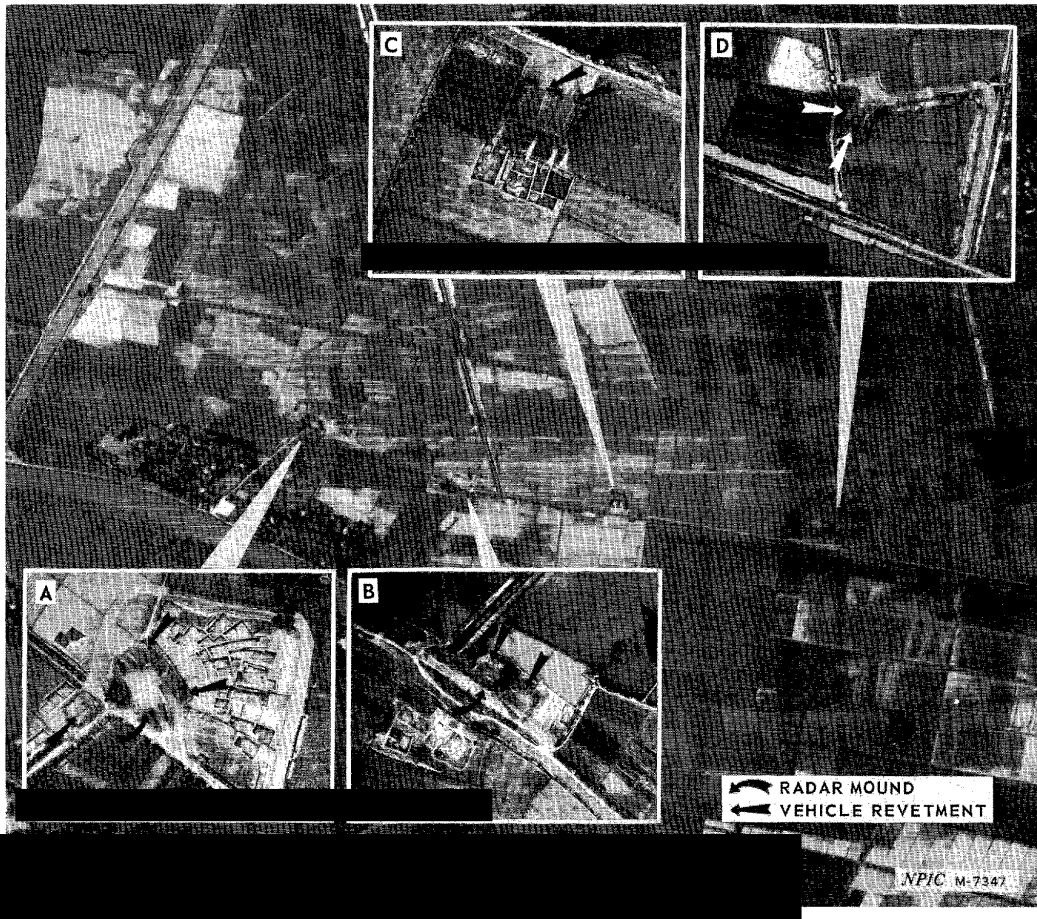
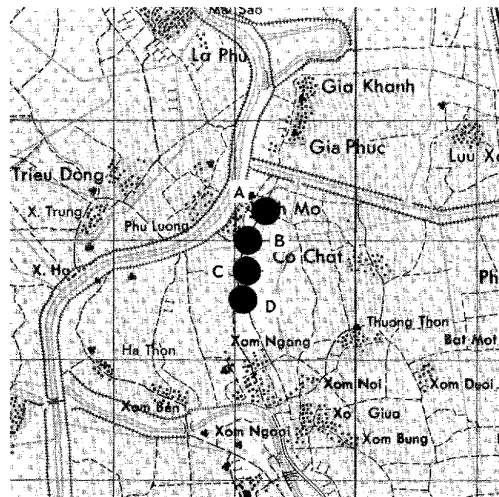
UTM COORDINATES	GEOGRAPHIC COORDINATES
WJ 891029	20-49-03N 105-51-22E

MAP REFERENCE
 AMS Map Series L7014, Sheet 6150 I, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility, located 9.9 nm south of Hanoi/Bac Mai Airfield, consists of four areas: Area A with one radar mound and three adjacent vehicle revetments at UTM WJ 892033; Area B with one radar mound and two adjacent vehicle revetments at UTM WJ 891030; Area C with two vehicle revetments at UTM WJ 891027; and Area D with two vehicle revetments at UTM WJ 890025.

This facility has not been observed occupied on photography.



25X1D

25X1D

25X1D

25X1D

B

CATEGORY B

CATEGORY B

Air Search

Most North Vietnamese air search radar sites consist of two vehicle revetments, although a few sites have been noted with more. When the site is occupied (usually by a KNIFE REST B or FLAT FACE radar) and the revetments are in an isolated location, a small hut or shelter will usually be present.

B-1

25X1C

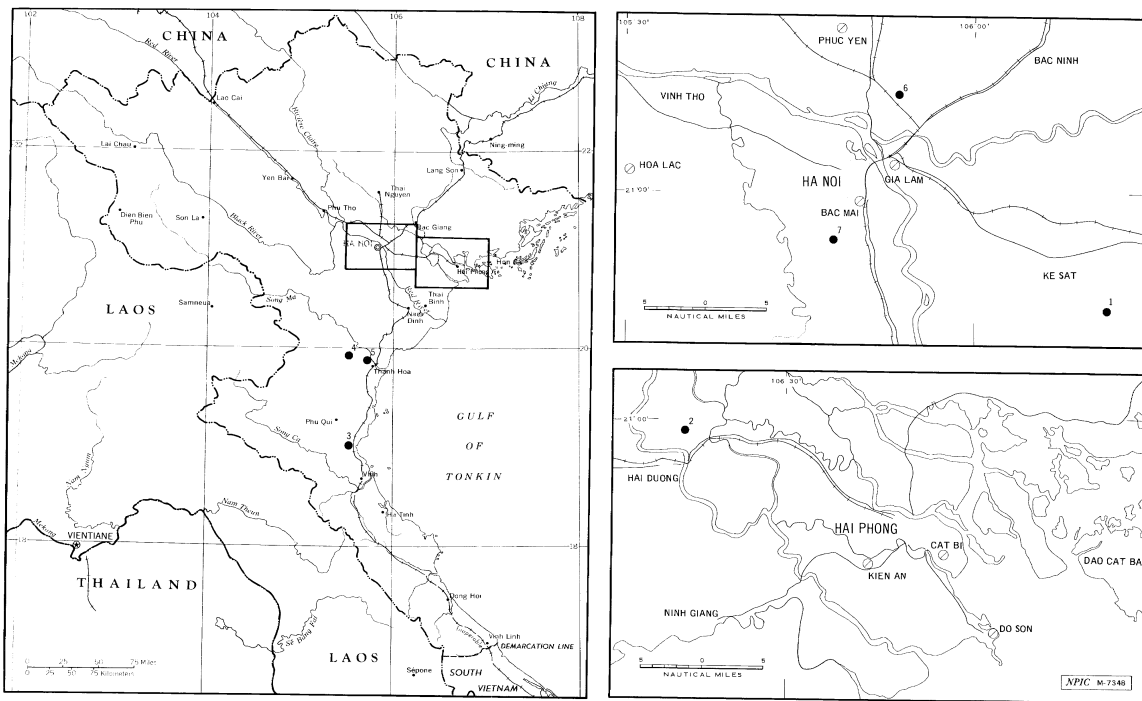


TABLE OF CONTENTS CATEGORY B

Air Search

MAP KEY	INSTALLATION NAME	BE NUMBER	EFFECTIVE PAGE
1	Phu Nong Chang/Binh Giang Phu	[REDACTED]	B-3 (CH-1)
2	Huan Le	[REDACTED]	B-5 "
3	Ru Ngang	[REDACTED]	B-7 "
4	Bai Thuong/Tung Lap	[REDACTED]	B-9 "
5	Thanh Hoa	[REDACTED]	B-11 "
6	Hanoi/Duc Noi	[REDACTED]	B-13 "
7	Ha Dong	[REDACTED]	B-15 "

25X1A

B-2
SECRET

NO FOREIGN DISSEM

25X1C

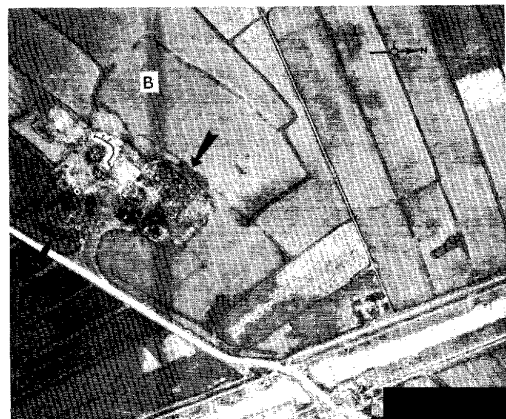
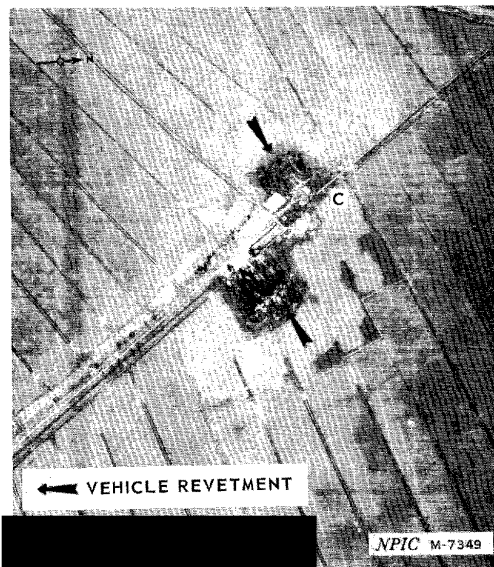
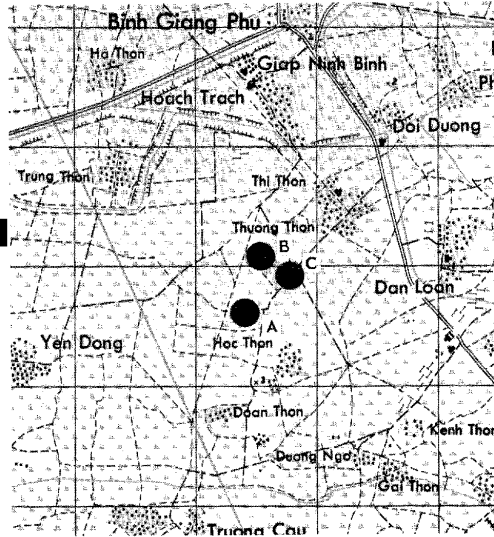
INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Phu Nong Chang/Binh Giang Phu AW Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
XJ 246059	20-51-01N 106-11-52E		
MAP REFERENCE			

AMS Map Series L7014, Sheet 6250 IV, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

The facility is located 1.3 nm south of Binh Giang Phu and consists of three pairs of vehicle revetments: one (A) at XJ 243057, one (B) at 245061, and one (C) at 247060.

This facility was occupied by a FLAT FACE radar in Area A and a KNIFE REST B radar in Area B on [REDACTED]



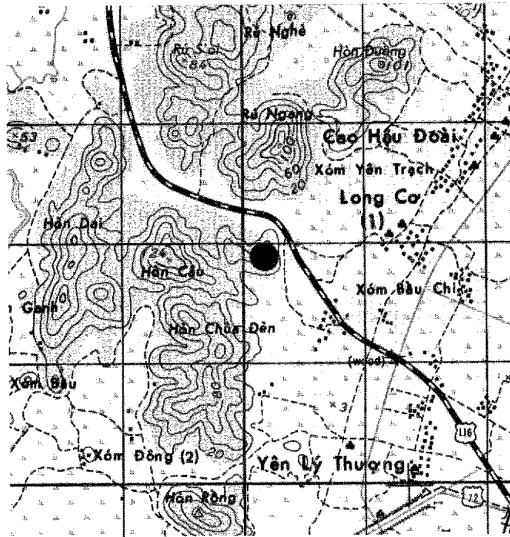
SECRET

25X1C

NPIC/R-58/69-1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Ru Ngang AW Radar Facility		VN
25X1A		
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WG 602119	19-06-02N 105-34-19E	
MAP REFERENCE		
AMS Map Series L7014, Sheet 6147 III, scale 1:50,000		
LATEST IMAGERY USED	NEGATION DATE (if required)	
25X1D	NA	

The facility is located 26.5 nm north-northwest of Vinh and consists of two vehicle revetments on a small hill. It has not been observed occupied on photography.



25X1D

SECRET

25X1C

NO FOREIGN DISSEM **SECRET**

NPTC/R-58/69-1

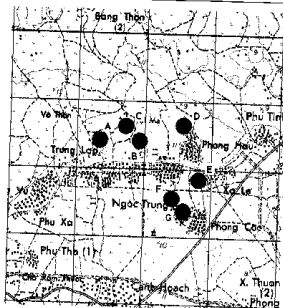
Approved For Release 2000/05/10 : CIA-RDP78B04560A006800010054-5

Bai Thuong/Trung Lap AW Radar Facility
UTM COORDINATE: WH 570082
GEOGRAPHIC COORDINATE: 19-58-15N 105-32-43E

AMS Map Series L7014, Sheet 6148 IV, scale 1:50,000
LATEST IMAGE USED: [REDACTED] NEGATION DATE: [REDACTED]

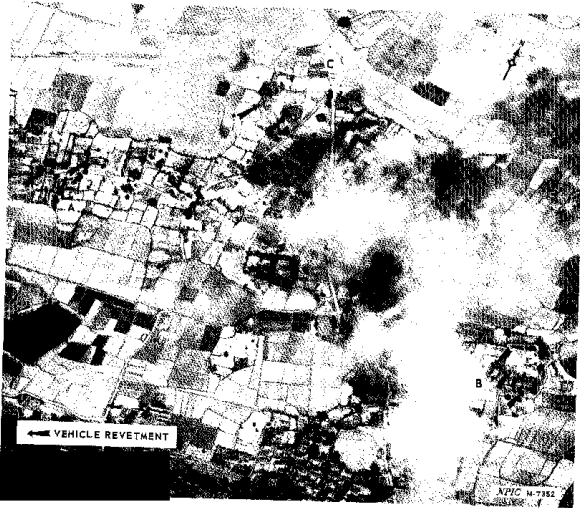
The facility is located 5.8 nm northeast of Bai Thuong Airfield and consists of seven areas, each with two vehicle revetments: Area A at UTM WH 562085; Area B at UTM WH 569084; Area C at UTM WH 566087; Area D at UTM WH 576087; Area E at UTM WH 578079; Area F at UTM WH 574077; and Area G at UTM WH 575075. Area F is not shown on the attached photograph.

Area A of this facility has been observed occupied by a FLAT FACE radar; however, the facility was unoccupied on [REDACTED]



25X1D

25X1D



25X1D

25X1D

B-9

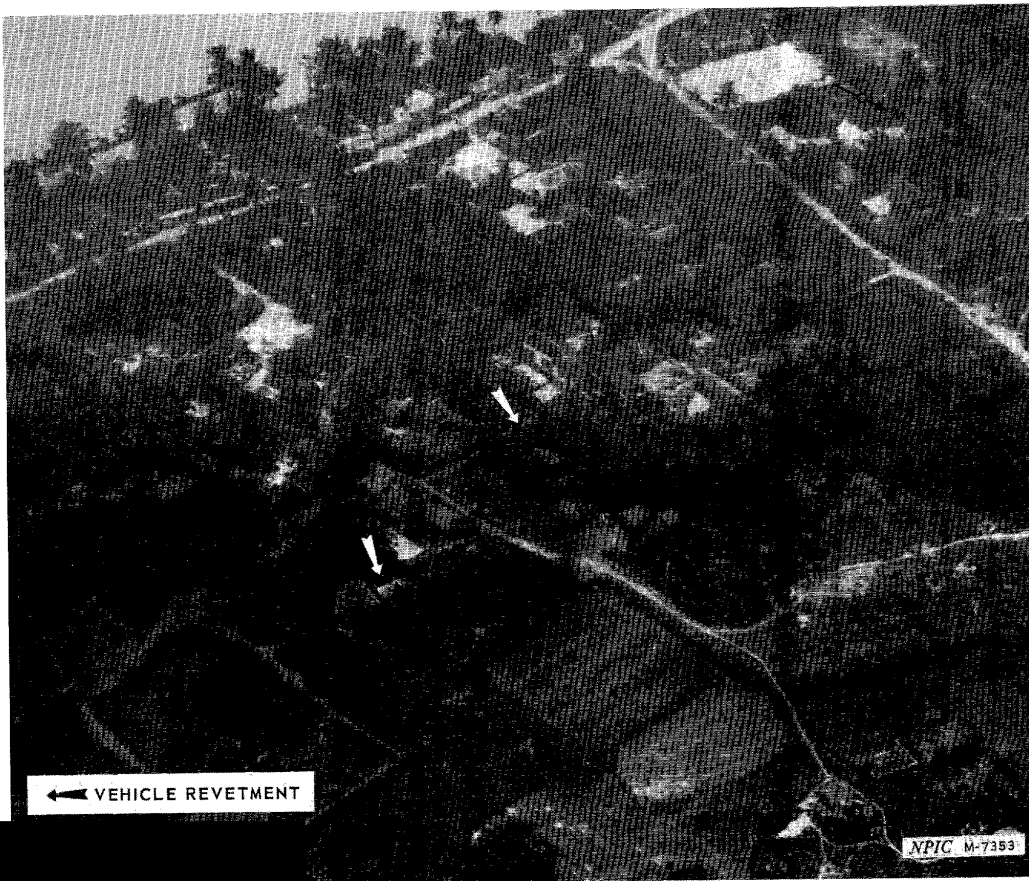
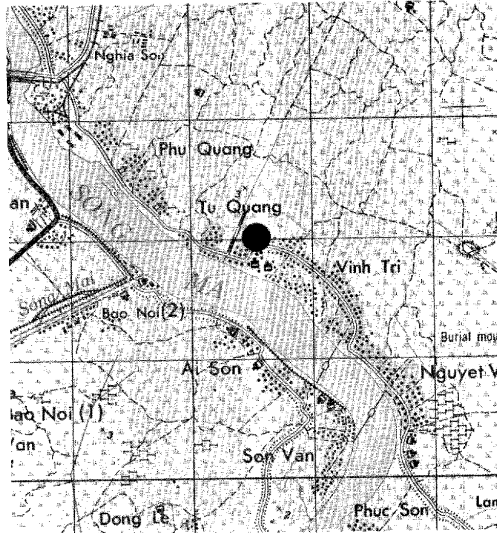
NO FOREIGN DISSEM **SECRET**

Approved For Release 2000/05/10 : CIA-RDP78B04560A006800010054-5

25X1C

INSTALLATION OR ACTIVITY NAME		COUNTRY
Thanh Hoa AW Radar Facility		VN
25X1A		
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WG 854920	19-49-26N 105-48-58E	
MAP REFERENCE		
AMS Map Series L7014, Sheet 6148 I, scale 1:50,000		
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D [REDACTED]		NA

The facility is located 2.4 nm northeast of Thanh Hoa and consists of two vehicle revetments. It was occupied by a KNIFE REST B radar on [REDACTED]



SECRET

25X1C

NPTC/R 58469-1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Hanoi/Duc Noi AW Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ 932371	21-08-05N 105-53-52E	
MAP REFERENCE		
AMS Map Series L7014, Sheet 6151 II, scale 1:50,000		

25X1A

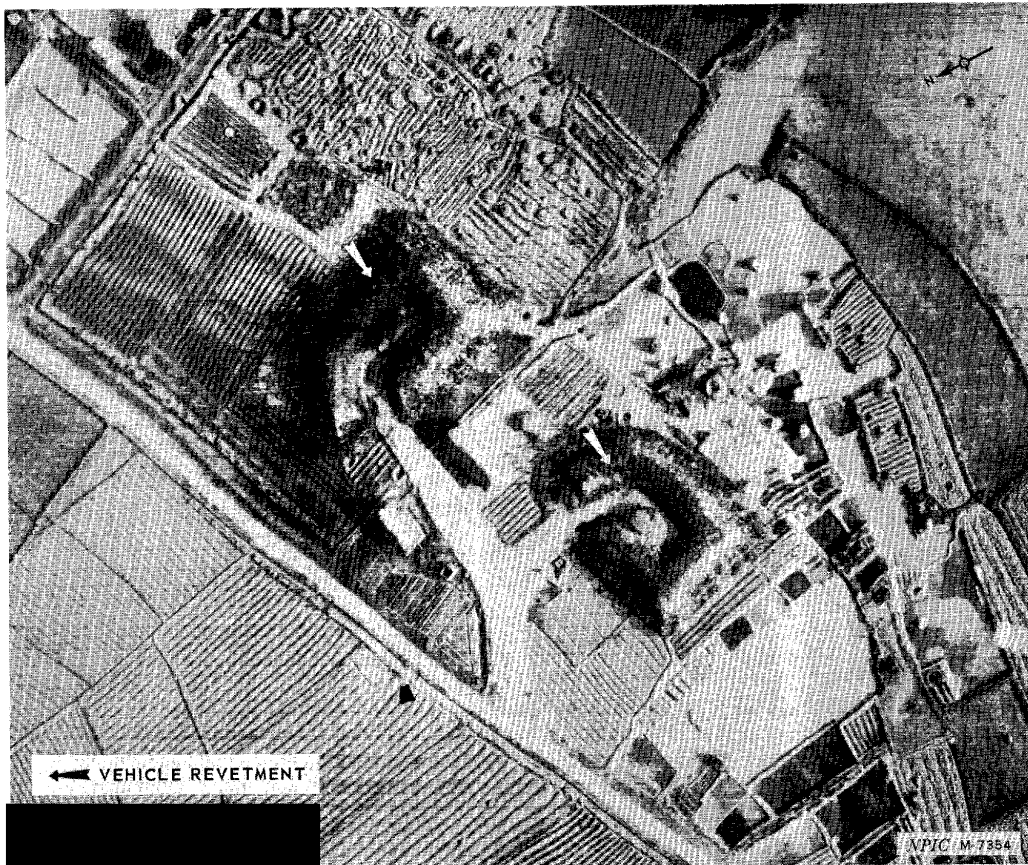
LATEST IMAGERY USED	NEGATION DATE (if required)
[REDACTED]	NA

25X1D

The facility is located 5.7 nm north of Hanoi/Gia Lam Airfield and consists of two vehicle revetments.

This facility has been occupied by a FLAT FACE radar; however, it was unoccupied on [REDACTED]

25X1D



25X1D

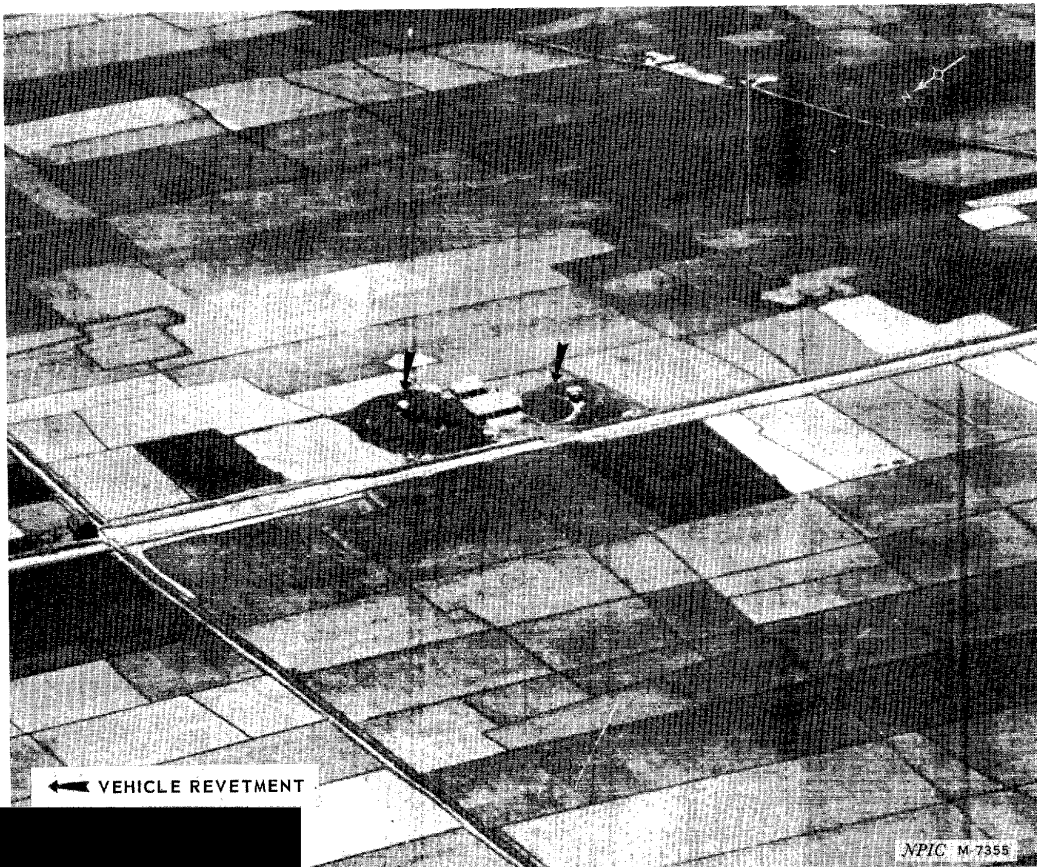
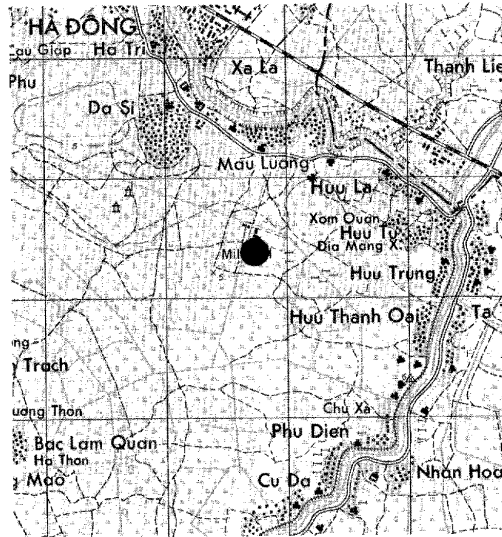
SECRET

25X1C

INSTALLATION OR ACTIVITY NAME		COUNTRY
Ha Dong AW Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ 826165	20-56-52N 105-47-42E	
MAP REFERENCE		
AMS Map Series L7014, Sheet 6150 I, scale 1:50,000		
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D [REDACTED]		NA

The facility is located 3.5 nm southwest of Hanoi/Bac Mai Airfield and consists of two vehicle revetments.

This facility has been observed occupied by a FLAT FACE radar; however, it was unoccupied on [REDACTED]



25X1D

25X1D

25X1D

CATEGORY C

1

C

CATEGORY C

Surface Search

Prior to the beginning of the US air strikes in 1965, the North Vietnamese had deployed CROSS SLOT radars on high ground along the coast and on offshore islands for a combined air search and surface search capability. These sites were subjected to air strikes and are no longer in operation. It is probable that smaller shipboard radars have since been installed along the coast. Only one installation of this type has been observed on photography. This is probably due to the relatively small size of this equipment and the use of camouflage.

CROSS SLOT radars are still carried in the North Vietnamese electronic order of battle. These radars are probably camouflaged and have not been observed on photography.

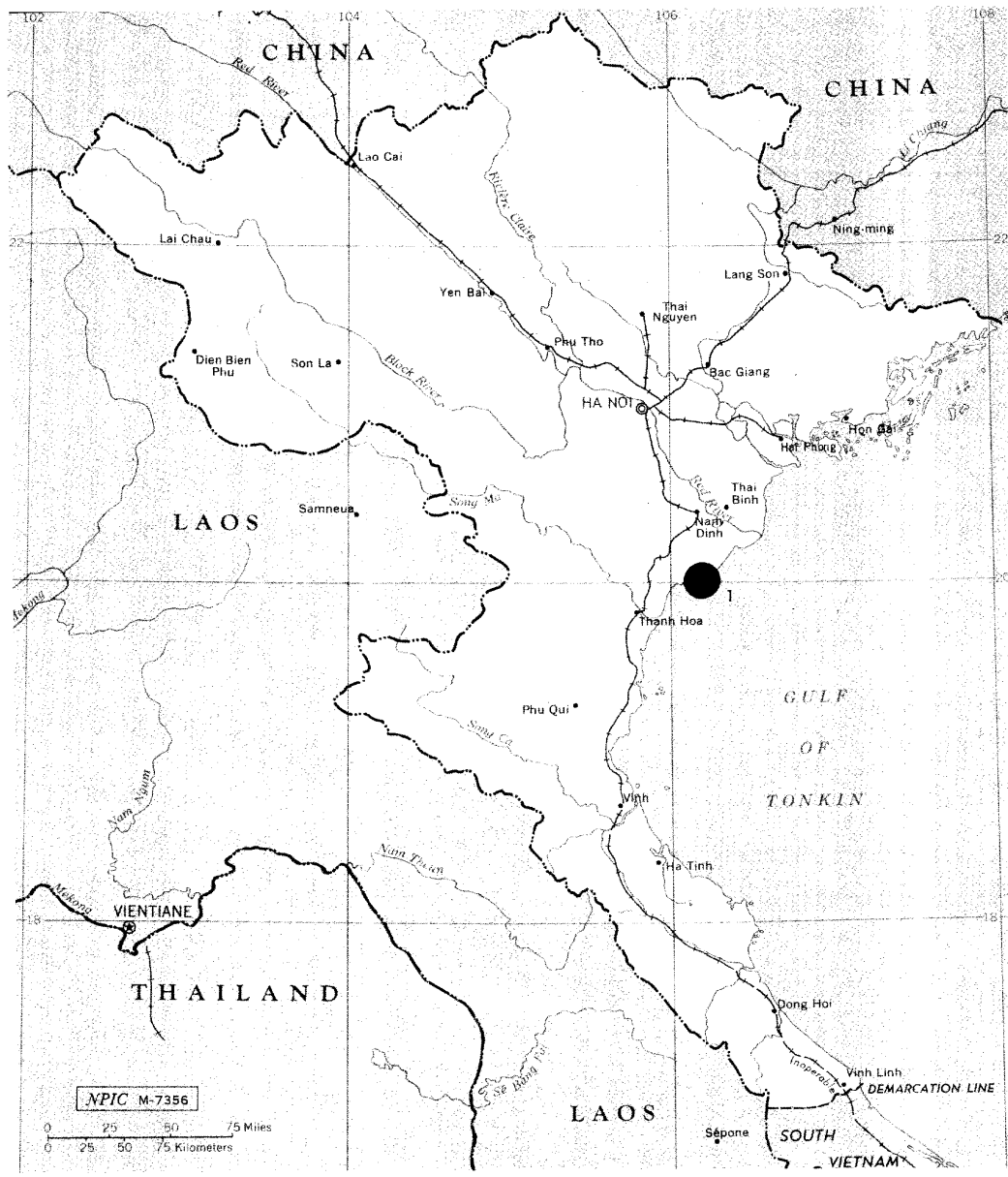


TABLE OF CONTENTS CATEGORY C

Surface Search

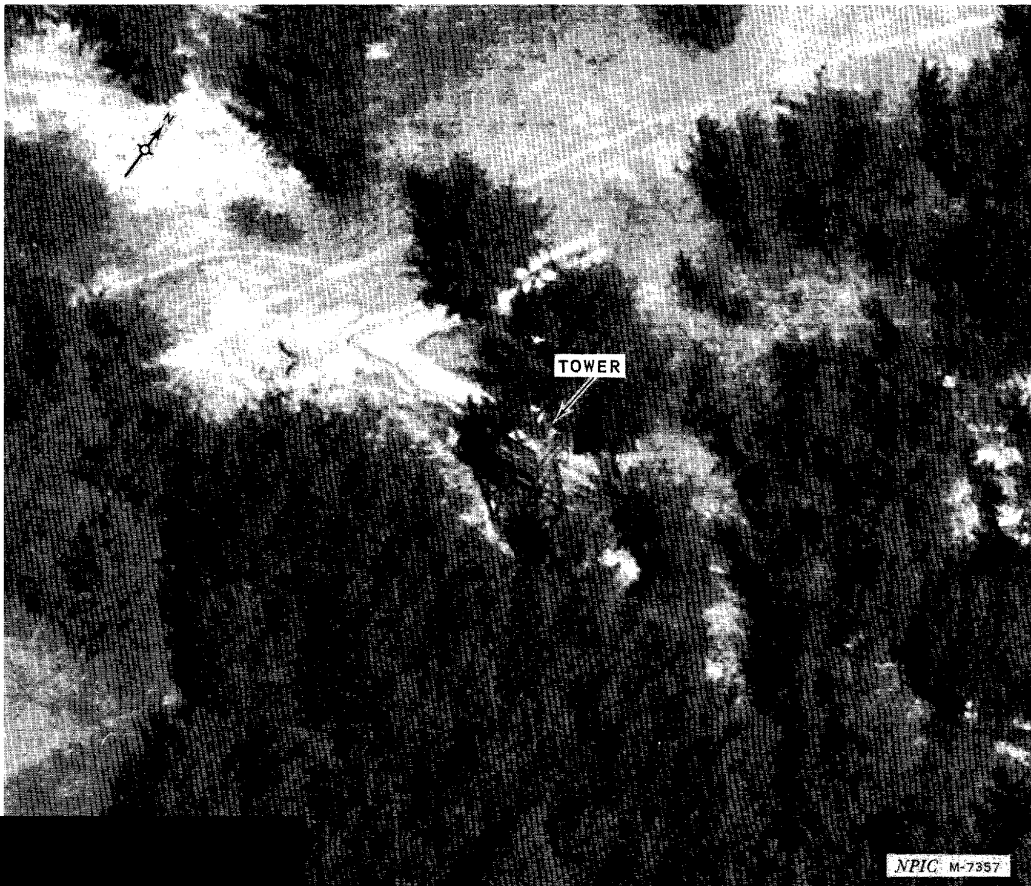
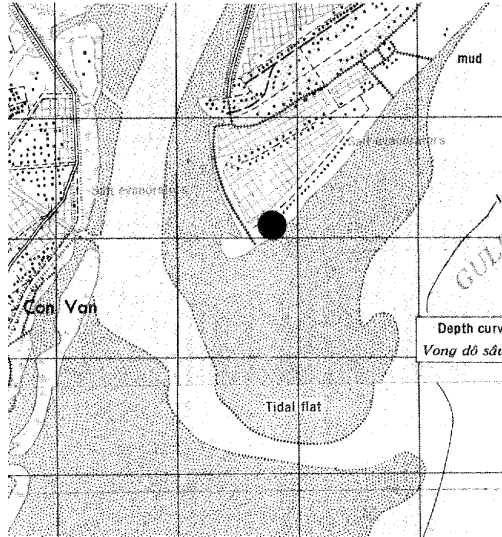
MAP KEY	INSTALLATION NAME	BE NUMBER	EFFECTIVE PAGE
1	Long Chau		C-3 (CH-1)

INSTALLATION OR ACTIVITY NAME		COUNTRY
Long Chau Radar		VN
25X1A		
UTM COORDINATES	GEOGRAPHIC COORDINATES	
XH 266131	20-00-42N 106-12-38E	
MAP REFERENCE		

AMS Map Series L7014, Sheet 6249 III, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D [REDACTED]	NA

The facility is located 27 nm northeast of Thanh Hoa and consists of a small shelter and a probable radar antenna on a tower. It was occupied by an unidentified probable SURFACE SEARCH radar on [REDACTED]



CATEGORY D

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[

CATEGORY D

Ground Controlled Approach

Two Soviet ground controlled approach (GCA) systems have been identified at North Vietnamese airfields.

The air search radar (LONG EYE or ONE EYE) acquires the approaching aircraft at long range and directs it into the limited field of view of the precision approach radar (PAR).

The precision approach radar (HOME TALK or TWO SPOT) is used by the ground controller to guide the aircraft to landing by providing azimuth and elevation information.

Air to ground communication is provided by DISC CONE antennas maintained on stick masts or the PAR van.

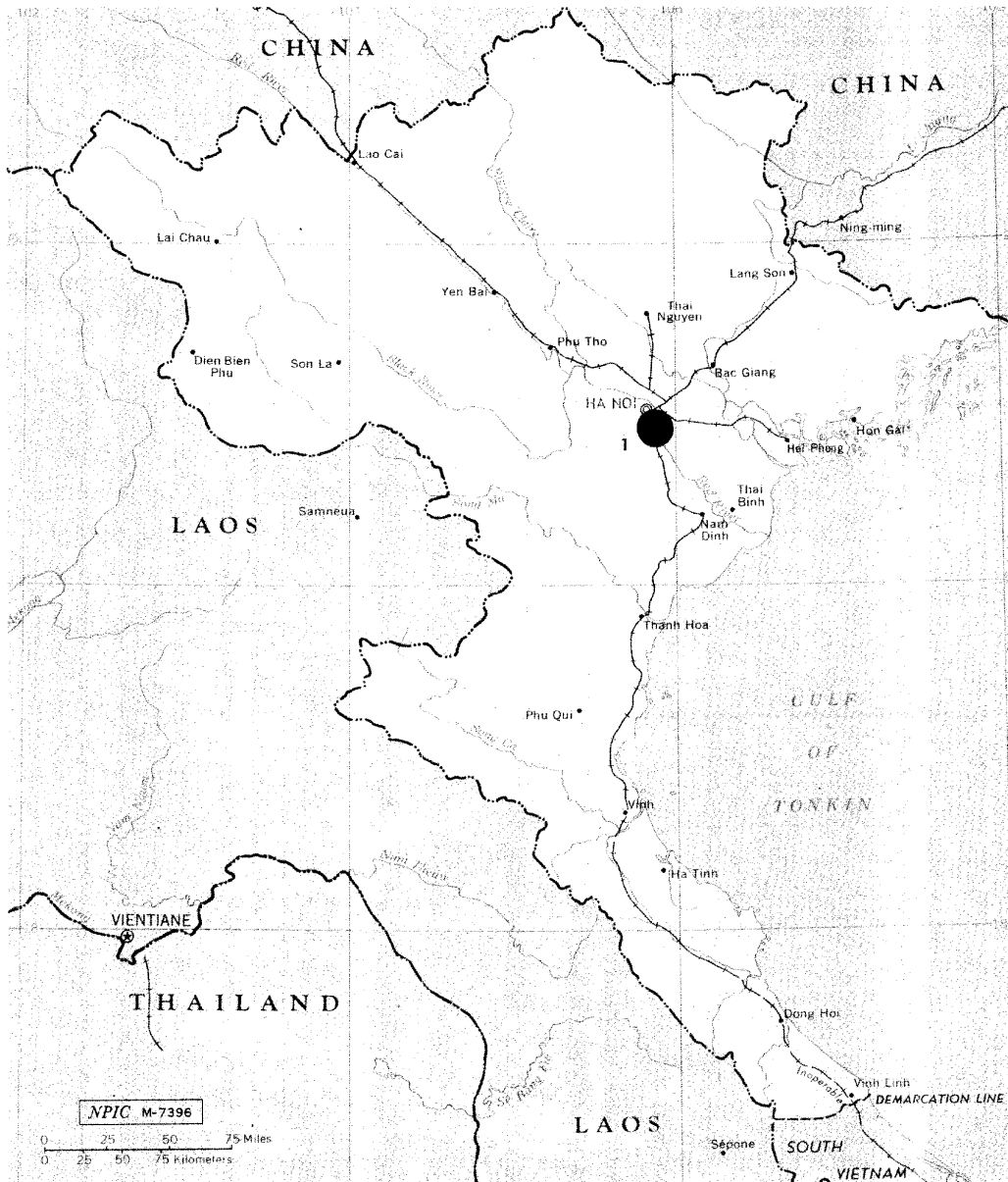


TABLE OF CONTENTS CATEGORY D

Ground Controlled Approach

MAP KEY	INSTALLATION NAME	BE NUMBER	EFFECTIVE PAGE
1	Hanoi/Bac Mai	[REDACTED]	D-3 (CH-1)

25X1A

INSTALLATION OR ACTIVITY NAME		COUNTRY
Hanoi/Bac Mai GCA Radar		VN
25X1A		
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WF 871197	20-58-56N 105-49-23E	
MAP REFERENCE		

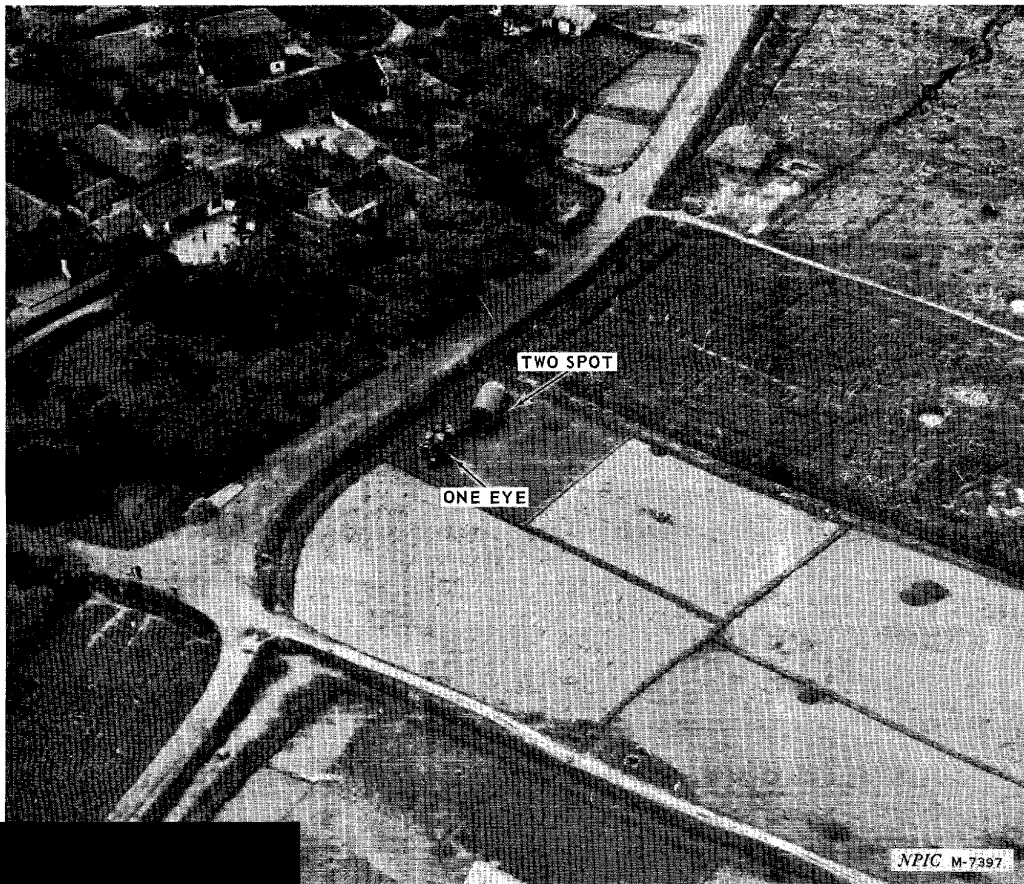
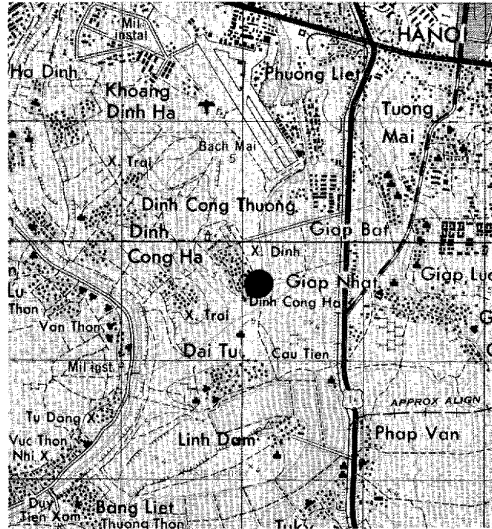
AMS Map Series L7014, Sheet 6150 I, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility is located 0.8 nm south of Hanoi/Bac Mai Airfield and consists of a ONE EYE and a TWO SPOT radar in an open field. The TWO SPOT radar antennas were erected in an operational position on [redacted] but had been stowed on [redacted]

25X1D
25X1D

This facility is not suitable for use as a precision approach radar for Hanoi/Bac Mai Airfield, although it could function as an approach control radar with some capability for monitoring descents.



25X1D