

ILLEGIB

Approved For Release 2000/08/23 : CIA-RDP78T05439A000300280003-9

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DECLASSIFICATION REVIEW by NIMA/DOD 3/17/00

TCS No. 148/84
IE No. 114/84
9 March 1984
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25X1A

MEMORANDUM FOR: [REDACTED] Chief, Collection Guidance Staff
ATTENTION : [REDACTED] GCI
THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS
FROM : Chief, CI/PID (RPIC)
SUBJECT : Highway Study Route 12, Laos
REFERENCES : (1) Requirement No. C-DI4-31, 622
(2) CIA/PID Project No. C 303/84

1. This memorandum is in partial answer to the above referenced requirement which requested a detailed study of Route 12 in Laos.

2. Route 12, approximately 200 km in length, connects Route 1 in North Vietnam with Route 13 near the Thailand Border. This route is shown on AMS Map Sheets NE 48-7, NE 48-11 and NE 48-12 annotated copies (CIA/PID/IE-P-435/84, P-428/84 and P-430/84) of which are enclosed. The junction with Route 1 is at coordinates 18° 20'N - 105° 30'E, at Ha Tinh, and the Route 13 junction is at coordinates 17° 24'N - 104° 50'E, at Thakhek. This route between Ha Tinh and Thakhek is joined by Route 12A, Route 12B and Route 12C at coordinates 17° 34'N - 105° 43'E, 17° 34'N - 105° 10'E and 17° 27'N - 105° 09'E respectively. This route is a single lane, improved road over its entire length. The road surface is packed earth or gravel. No bituminously treated or paved sections were observed. The portion of road from the junction with Route 1 west to the Sang Ngan San (River) has graded shoulders. The remaining road sections are without graded or maintained shoulders. The road does not have excessively steep grades or sharp turns except from the junction of Route 12A north, across the Laos-North Vietnam Border, to the Valley of Ngan San Giang (River). This portion of the road has many sharp curves and steep grades. No landslide activity was observed along Route 12 but, due to the rugged terrain encountered along the western border of North Vietnam, landslides can not be eliminated as a potential danger.

3. There are several bottleneck areas on Route 12. The road utilizes a ferry at the town of Dia Lai, to cross the Sang Ngan San (River). Only one ferry boat, with an approximate capacity of two trucks, was observed at this crossing on mission 0071. At a point 4 km north of the junction with Route 12B,

S-12247

SUBJECT: Highway Study Route 12, Laos

Route 12 crosses a stream by means of a ford. The remaining stream crossings are made by single lane bridges. Even though this road is only single lane for its entirety, due to the presence of villages, wide shoulders or truck pull-offs, individual trucks should be capable of passing at an estimated 2-5 km interval. Long convoys would have more problem passing, especially in the mountainous area along the Laos-North Vietnam Border. The only new construction or road improvement on this route consisted of road widening north of the Song Ngan San (River) ferry crossing in North Vietnam. This road would be capable of heavy truck traffic in good weather.

4. There are numerous military camps which possibly contain maintenance facilities on Route 12 in the Song Ngan San Valley. The remaining portion of this road has three possible maintenance areas. Just north of the North Vietnam Border a POL storage depot and a possible maintenance area are located. At the junction with Route 12A and east of the junction with Route 3A the other possible maintenance areas are located.

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5. Enclosed with this memorandum are five annotated enlargements (CIA/PID/IB-P-442/54 to P-446/54) which illustrate a typical truck pull-off, a typical low capacity bridge with a ford, a convo pull-off area, a low capacity wooden bridge and a typical ford as found on Routes 12, 12A and 12B.

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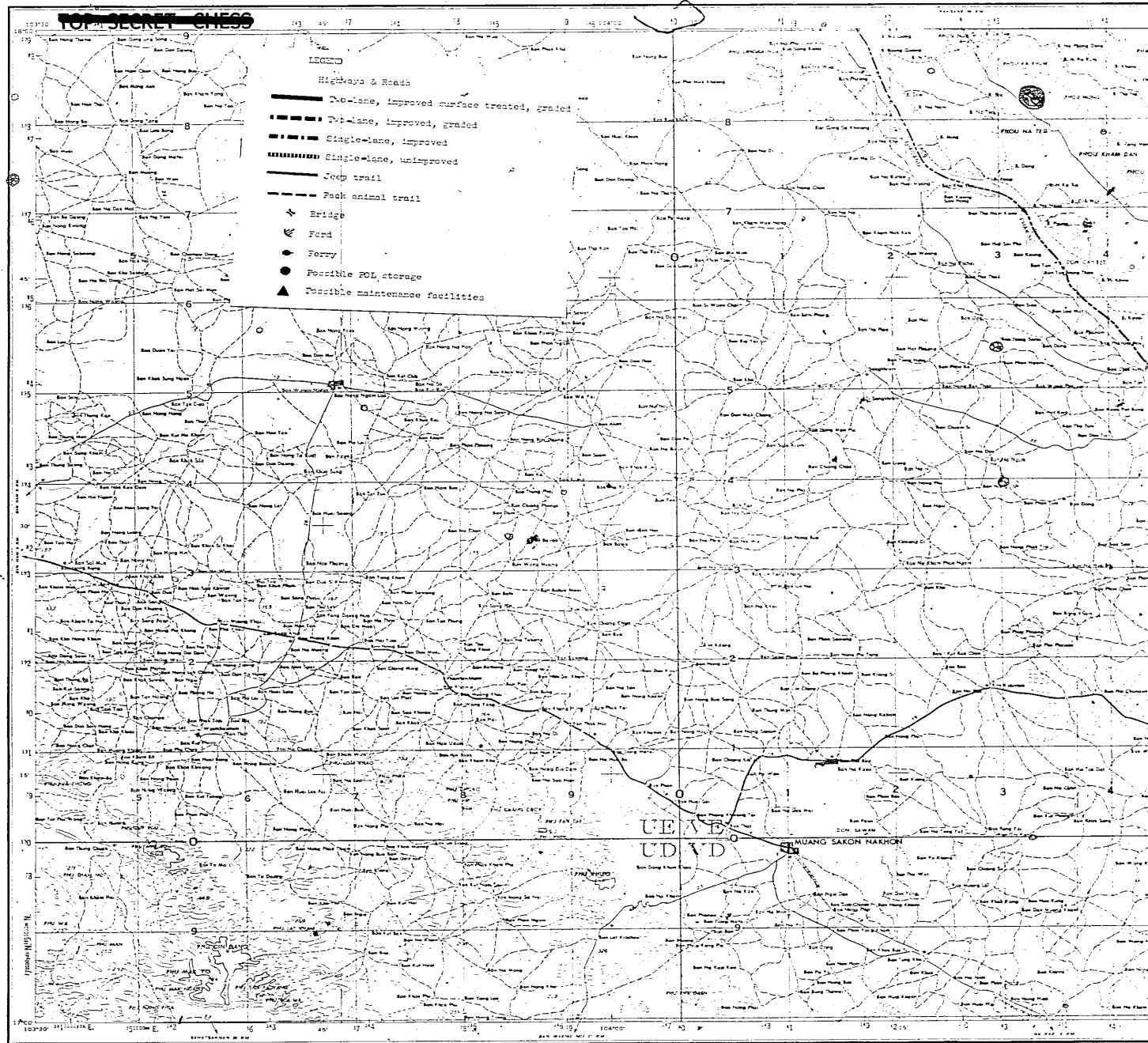
7. The analysts on this project were Messrs. [REDACTED] who may be contacted on extension 2945, should you have any questions concerning this requirement. This is considered a partial answer to the requirement.

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ENCLOSURES:

- 3 Annotated Maps (CIA/PID/IB-P-428/54 to P-435/54 and P-436/54)
- 5 Annotated Enlargements (CIA/PID/IB-P-442/54 to P-446/54)



5250
 5250 2445
 Prepared by the Army Staff
 War Relocation Authority
 Survey Division
 Chart No. 4815, 1:500,000
 Contours: Names enclosed in accordance with the U.S. Board on Geographic Names. Names and the form of the contour interval are not available or where density of detail does not permit their inclusion. Populated places in this chart are classified by importance.

CLASSIFICATION

B. Sec. _____
 Date _____
 Class _____
 Contour Interval _____
 Contour Interval _____
 Contour Interval _____
 Contour Interval _____
 Contour Interval _____

LEGEND (CONTINUED)

PLACES

CRUNG THEP
 LOB
 NONG KHAI

LEGEND (CONTINUED)

PLACES

CRUNG THEP
 LOB
 NONG KHAI

LEGEND (CONTINUED)

PLACES

CRUNG THEP
 LOB
 NONG KHAI

CONTOUR INTERVAL 100 METERS WITH SUPPLEMENTARY CONTOURS AT 50 METER INTERVALS

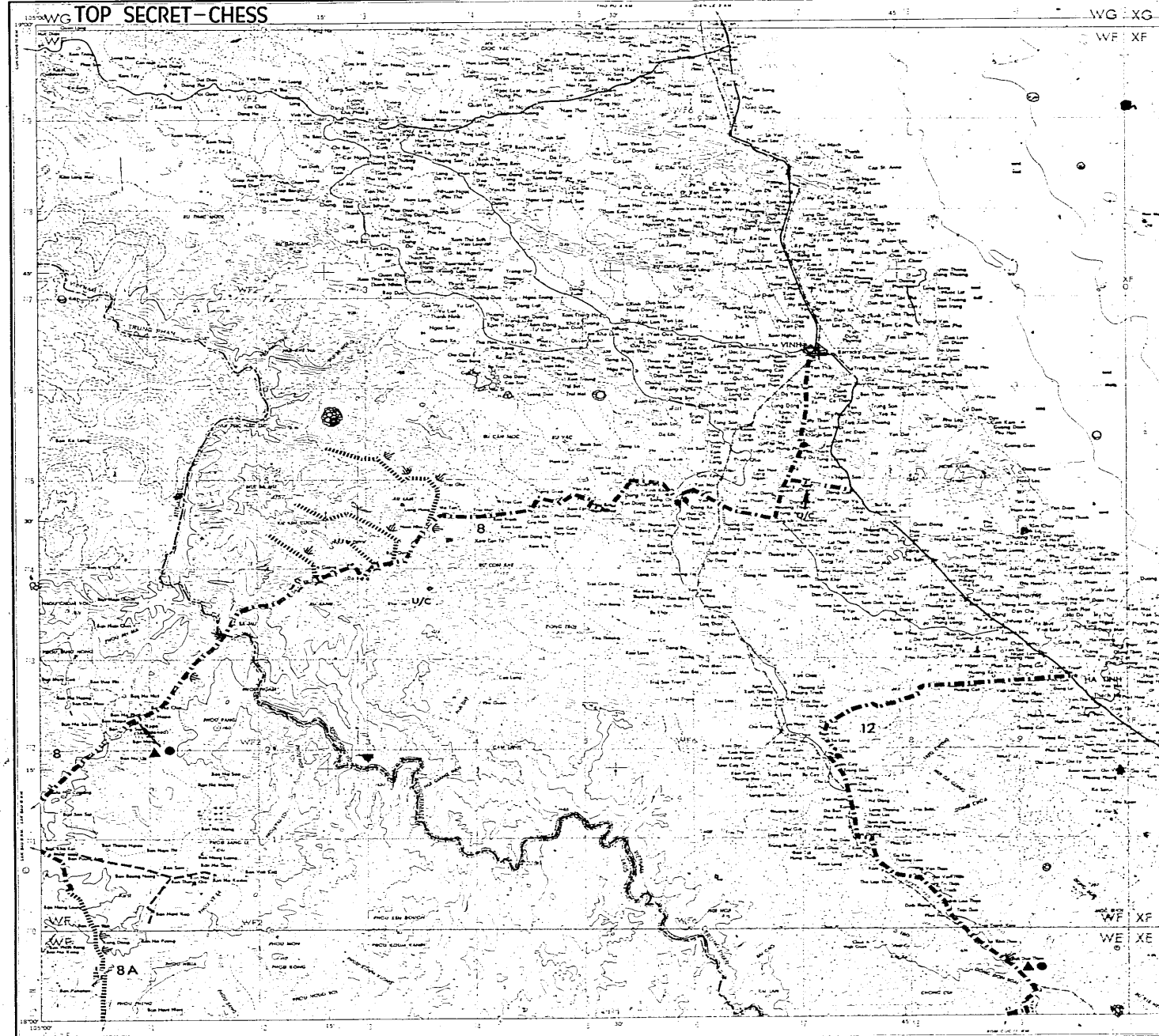
TRANSVERSE MERCATOR PROJECTION

SCALE 1:500,000

CONTOUR INTERVAL 100 METERS WITH SUPPLEMENTARY CONTOURS AT 50 METER INTERVALS

TRANSVERSE MERCATOR PROJECTION

SCALE 1:500,000



TOP SECRET-CHES

WG XG
WF XF

WF XF
WE XE

L509

Revision 2-AMS (First Rev)

CLA/PID/ID-P-435/01

This map was compiled from various sources including the following:
 - Aerial photography from 1953 to 1957.
 - Ground surveys and reconnaissance reports.
 - Information from local sources.
 - Data from the United States Air Force and other military agencies.
 - Information from the French and British colonial administrations.
 - Information from the Japanese colonial administration.

GLOSSARY

Contour interval	100 meters
Scale	1:250,000
Projection	Transverse Mercator
Units	Meters
Grid	1000 meters
Coordinates	Universal Transverse Mercator

LEGEND		LEGENDA	
SAIGON	Capital	SAIGON	Capital
HAIPHONG	Major port	HAIPHONG	Major port
NAM DINH	Major port	NAM DINH	Major port
Ho Chi Minh	Major road	Ho Chi Minh	Major road
Other roads	Other roads	Other roads	Other roads
Rivers	Rivers	Rivers	Rivers
Streams	Streams	Streams	Streams
Canals	Canals	Canals	Canals
Waterfalls	Waterfalls	Waterfalls	Waterfalls
Marshes	Marshes	Marshes	Marshes
Swamps	Swamps	Swamps	Swamps
Mountains	Mountains	Mountains	Mountains
Hills	Hills	Hills	Hills
Plateaus	Plateaus	Plateaus	Plateaus
Valleys	Valleys	Valleys	Valleys
Plateaus	Plateaus	Plateaus	Plateaus
Plateaus	Plateaus	Plateaus	Plateaus

Scale 1:250,000

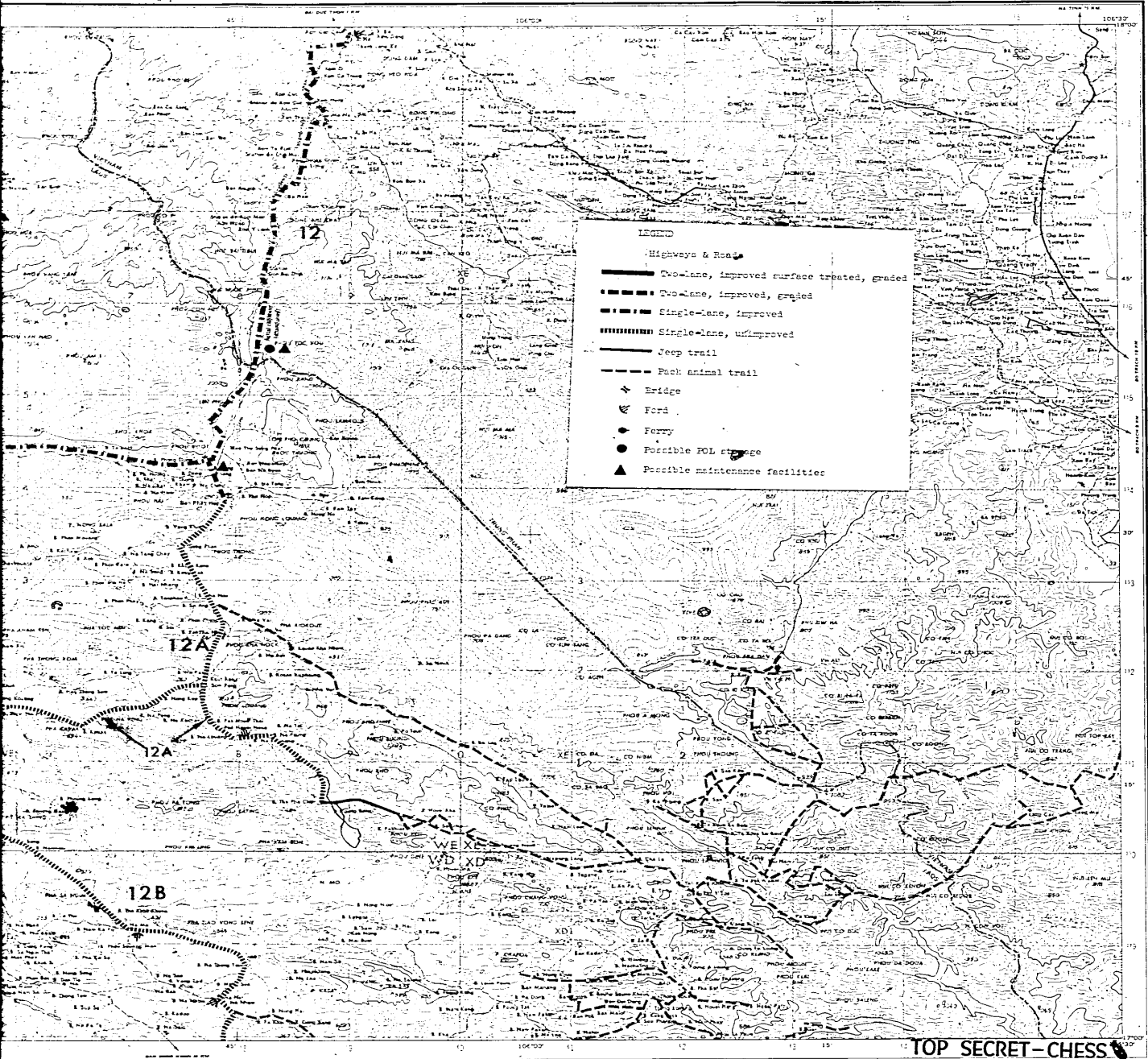
CONTOUR INTERVAL 100 METERS
TRANSVERSE MERCATOR PROJECTION

BADON

EDITION 4-AMS

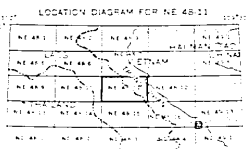
REFER TO THIS MAP AS
NE 4811
SERIES L437

STREET MAP
SHEET NE 48 11
EDITION 4-AMS



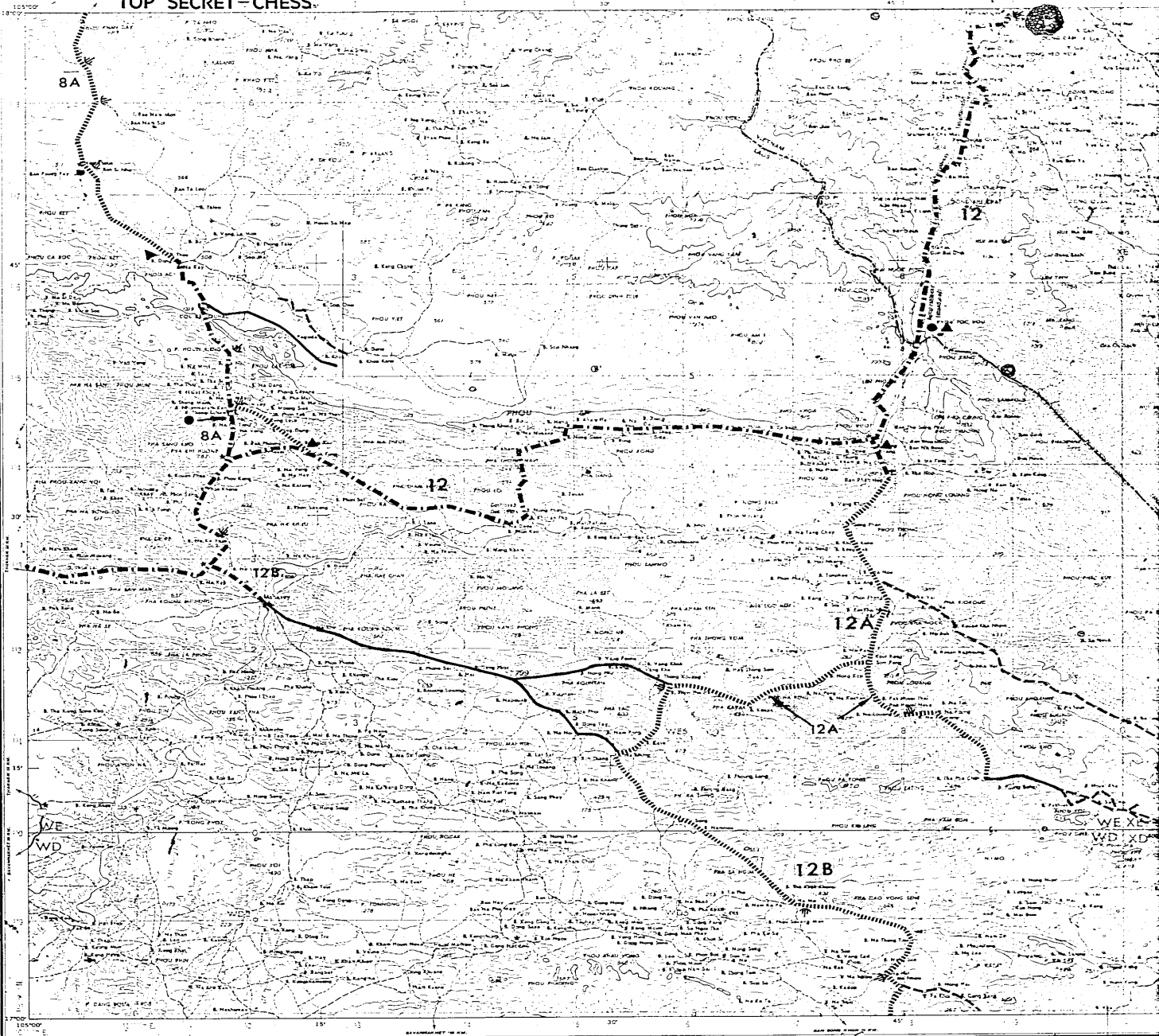
TOP SECRET-CHES

CONTOUR INTERVAL 100 METERS WITH SUPPLEMENTARY CONTOURS AT 50 METER INTERVALS
 POLY CONTOURS PARTIALLY SHOWN BY DASHED LINES
 TRANSVERSE MERCATOR PROJECTION



BADON, VIETNAM: LAOS

TOP SECRET - CHESS



1:250,000
Edition 4-AM5 (First)
Prepared by the Army
Map Center, GPO
1:250,000 Scale, 1:50
Revised to 4-AM5 (First)
The map is a reproduction of a
documented. Names for rivers and streams are omitted where
information is not available. The map is based on data collected
from 1950 to 1955. The map is based on data collected
from 1950 to 1955.

CIA/RID/IB-P-588/94

PLACES
 SAIGON
 HAIPHONG
 NAM DINH
 Ha Dong

LEGEND

Symbol	Description	Symbol	Description
[Symbol]	1st Class	[Symbol]	1st Class
[Symbol]	2nd Class	[Symbol]	2nd Class
[Symbol]	3rd Class	[Symbol]	3rd Class
[Symbol]	4th Class	[Symbol]	4th Class
[Symbol]	5th Class	[Symbol]	5th Class
[Symbol]	6th Class	[Symbol]	6th Class
[Symbol]	7th Class	[Symbol]	7th Class
[Symbol]	8th Class	[Symbol]	8th Class
[Symbol]	9th Class	[Symbol]	9th Class
[Symbol]	10th Class	[Symbol]	10th Class
[Symbol]	11th Class	[Symbol]	11th Class
[Symbol]	12th Class	[Symbol]	12th Class
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[Symbol]	14th Class	[Symbol]	14th Class
[Symbol]	15th Class	[Symbol]	15th Class
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[Symbol]	25th Class	[Symbol]	25th Class
[Symbol]	26th Class	[Symbol]	26th Class
[Symbol]	27th Class	[Symbol]	27th Class
[Symbol]	28th Class	[Symbol]	28th Class
[Symbol]	29th Class	[Symbol]	29th Class
[Symbol]	30th Class	[Symbol]	30th Class

CONTOUR INTERVAL 100 METERS WITH SUPPLEMENTARY CONTOURS AT 50 METER INTERVALS
 RELIEF PARTIALLY SHOWN BY FORM LINES
 TRANSVERSE MERCATOR PROJECTION

Scale 1:250,000
 1:250,000
 1:250,000