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**TOP SECRET GHESS RUFF**

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IB No. 254/64  
8 June 1964  
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MEMORANDUM FOR: Chief, Resources Division, ORR

ATTENTION :

[REDACTED]

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THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID (NPIC)

SUBJECT : Volgograd Petroleum Refinery, USSR

REFERENCES : (1) ORR Requirement No. C-RR3-80,326  
(2) CIA/PID/Project No. C 906/63

1. This memorandum is in response to the referenced requirement which asks for a description of the Volgograd Petroleum Refinery, USSR. This description is to include type, layout and capacity, and to provide an annotated photographic enlargement of the refinery.

2. This study was conducted from KEYHOLE [REDACTED]

[REDACTED] which is the best available photography covering the area for comparative study of the refinery [REDACTED]

[REDACTED] were utilized.

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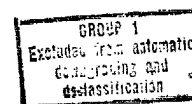
3. The Volgograd Petroleum Refinery is located on the southeast outskirts of Krasnoarmeysk on the Volga River. The main refinery property is approximately 3.8 miles by 2 miles, and an overall areal extent of 6.2 miles by 5.8 miles, its coordinates are 48° 31'N - 44° 37'E. The additions and changes observed during the 1959-1963 period are as follows:

a. Photography taken in December 1959, shows the refinery in the first stage of operation. The basic process units were on steam. The heat and power plant (Annotation 9), the cracking units (Annotation 12) and the two distillation units just west (Annotation 13) were in operation. Other units that appeared to be completed were not giving off any atmospheric emissions. The constructed areal extent appeared to be more or less half its present size.

b. On the photography of November 1962, the areal extent had been greatly expanded with the addition of more processing units.

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c. These same units appear on the September 1963 photography in a more advanced construction stage and some appear ready to go on stream. New construction is expanding east and northeast which includes installation of new units, and additional tanks and tank bases. The above ground pipeline traces can be seen being extended into these new areas. The railcar loading and unloading area, along the Volga River, has increased the tank farm capacity with the construction of 12 new tank bases. Both vertical and underground tanks are utilized for the storage of crude and finished products at the refinery. Crude and finished products can be moved to and from the refinery by road, pipeline, rail and river barge. There are four marine terminals on the Volga River to service the refinery.

d. The external appearance of the coking unit (Annotation 7), appeared completed on the November 1962 photography. However, the unit did not appear to be active or operational. The unit is served by rail to a long storage type building with a center structure approximately 70 feet high, a ramp, conveyor or pipeline slopes down from this structure approximately 345 feet to the coking unit. A unit similar to this has been observed at the Lan chou Petroleum Refinery China. Because of the similarity in appearance between these two structures, measurements have been obtained of both these units for a comparison study. Results of these measurements have been included with this study as enclosures for your use and comparison. The Russian unit appears to have cleaner construction lines than its counterpart at Lan chou, China.

e. Ground scars for possible pipelines extend from the refinery to the unidentified processing industrial area under construction (Annotation 19). This would indicate that some product of the refinery will be used in this area.

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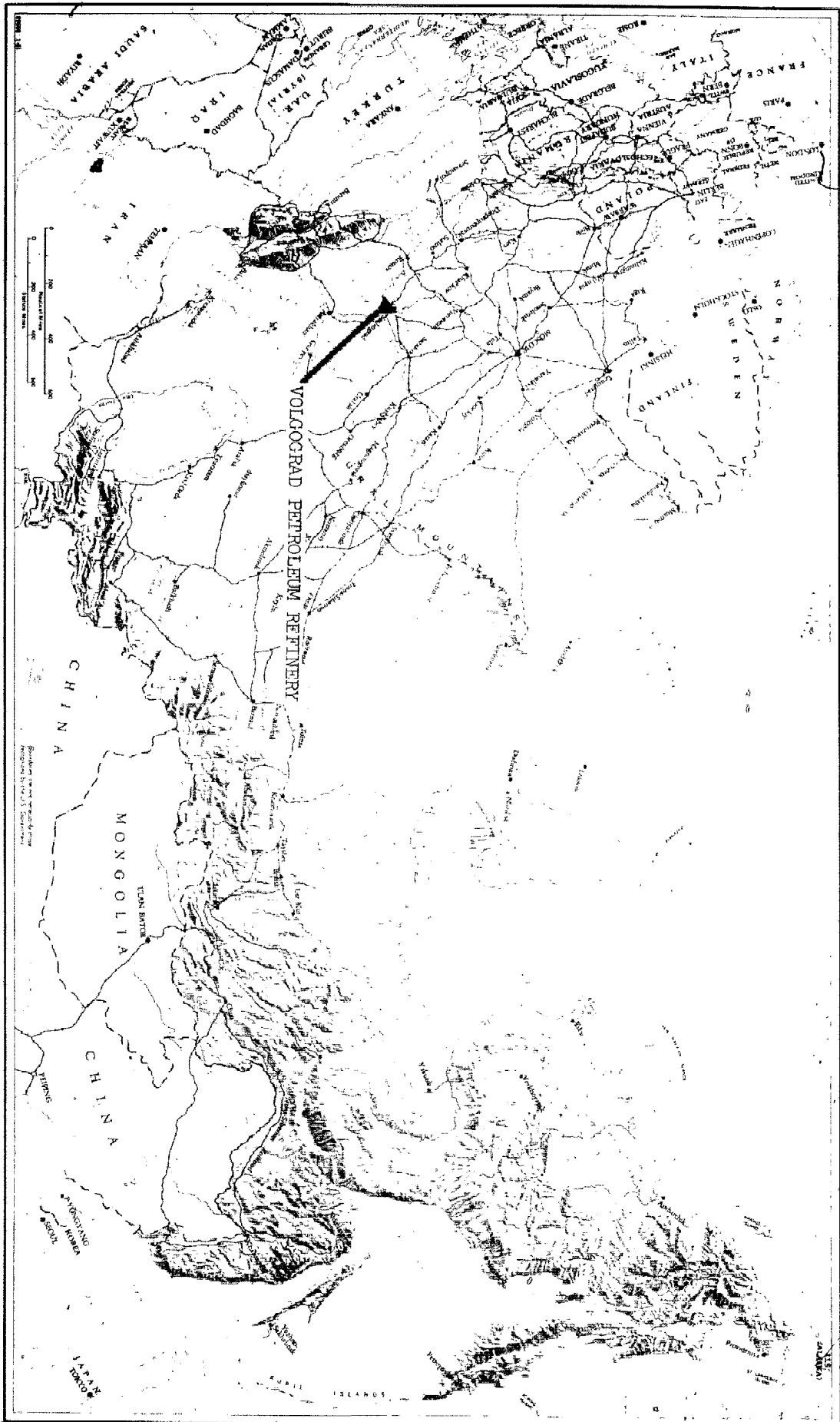
**ENCLOSURES:**

- 1 Location Map (CIA/PID/IB-P-834/64)
- 2 Overlays (CIA/PID/IB-P-835/64 and P-836/64)
- 1 Annotated Photo Enlargement (CIA/PID/IB-P-837/64)
- 1 Measurements Coking Unit Volgograd Refinery, USSR (CIA/PID/IB-P-856/64)
- 1 Measurements Coking Unit Lan chou Refinery China (CIA/PID/IB-P-857/64)

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CIA/PID/IB-P-834/64



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FUNCTIONS  
INCLUDING 6 UNIT OPERATIONS  
STORAGE  
COMMUNICATIONS  
POWER PLANT  
PROBABLE FRACTION  
DISTILLATION

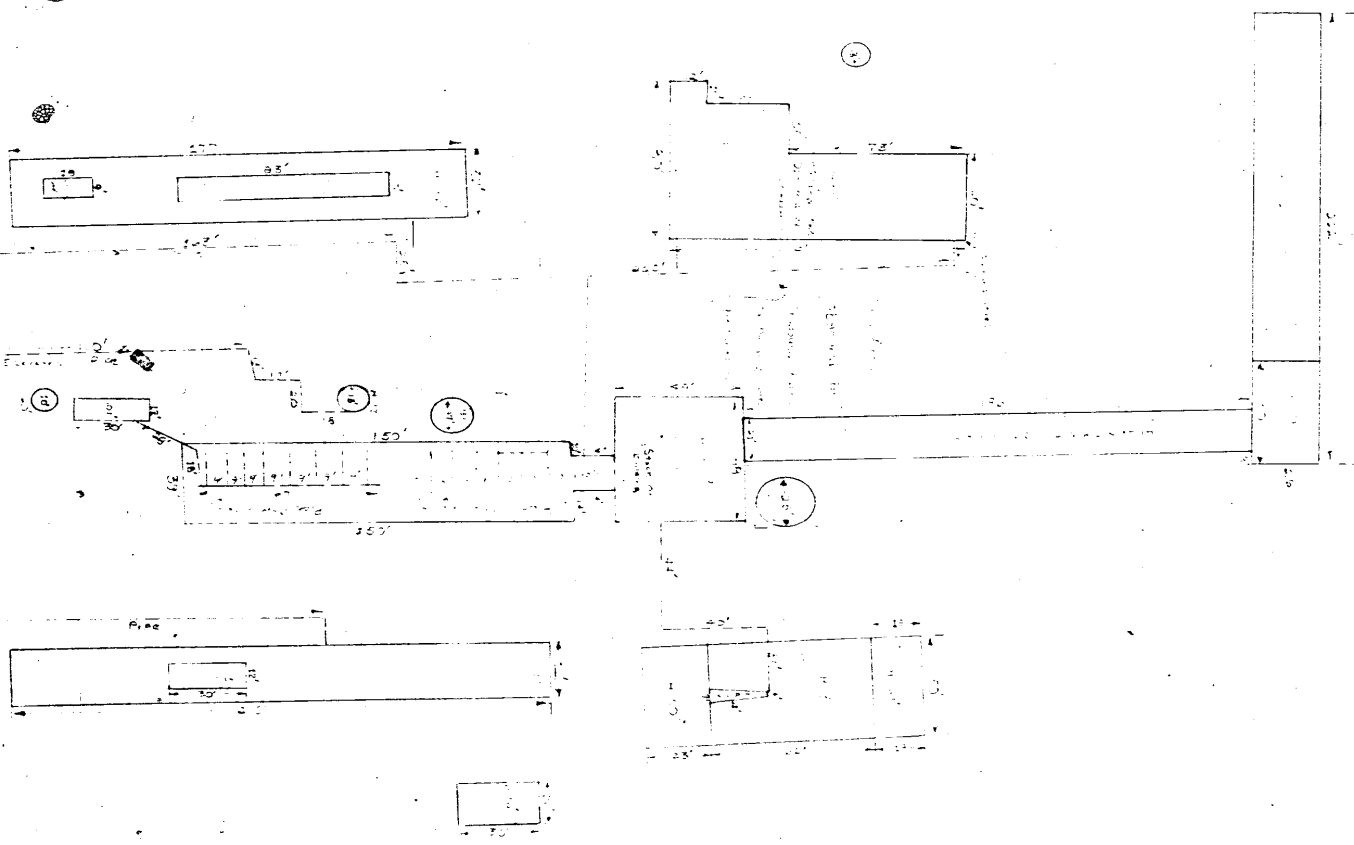
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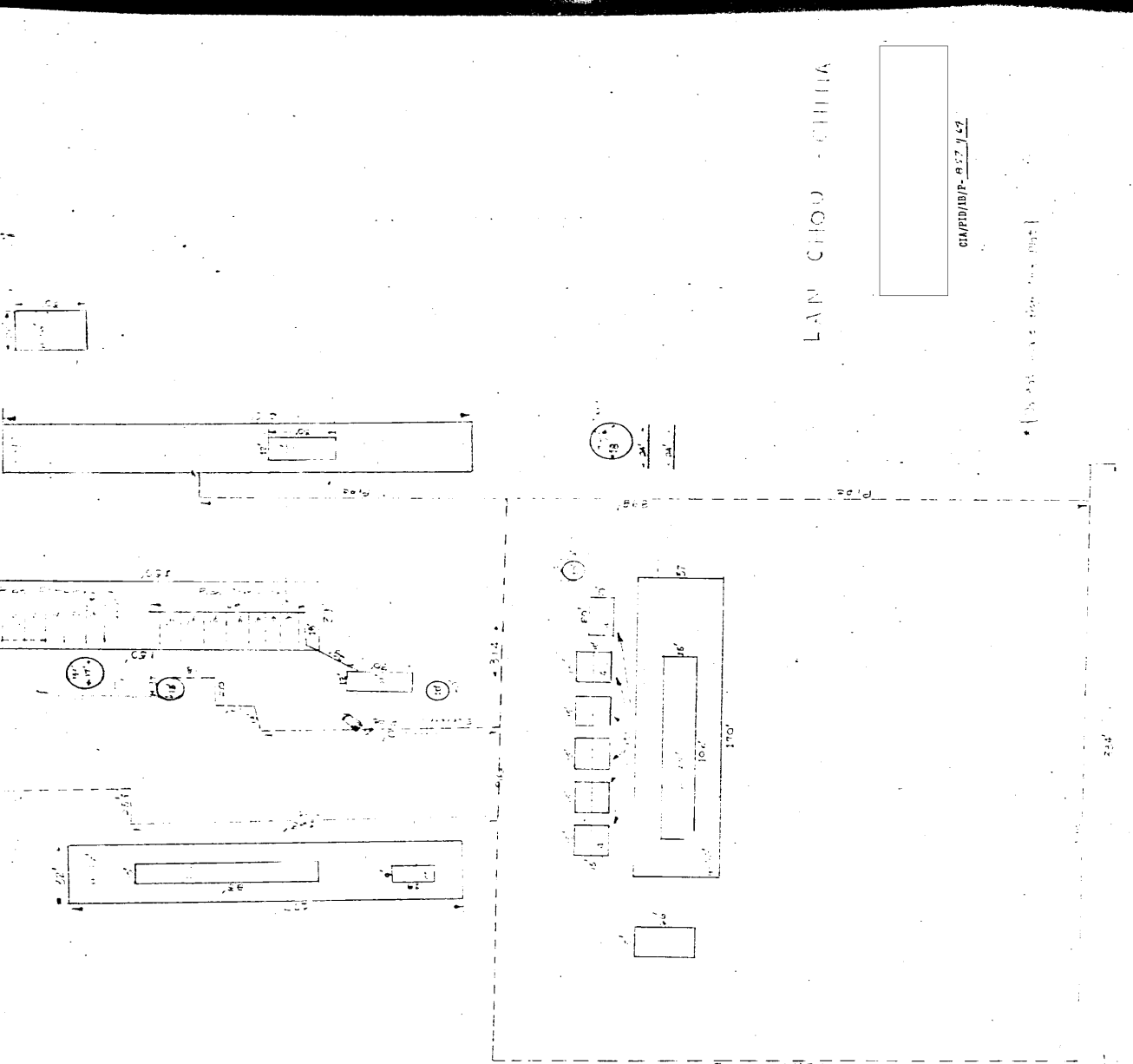
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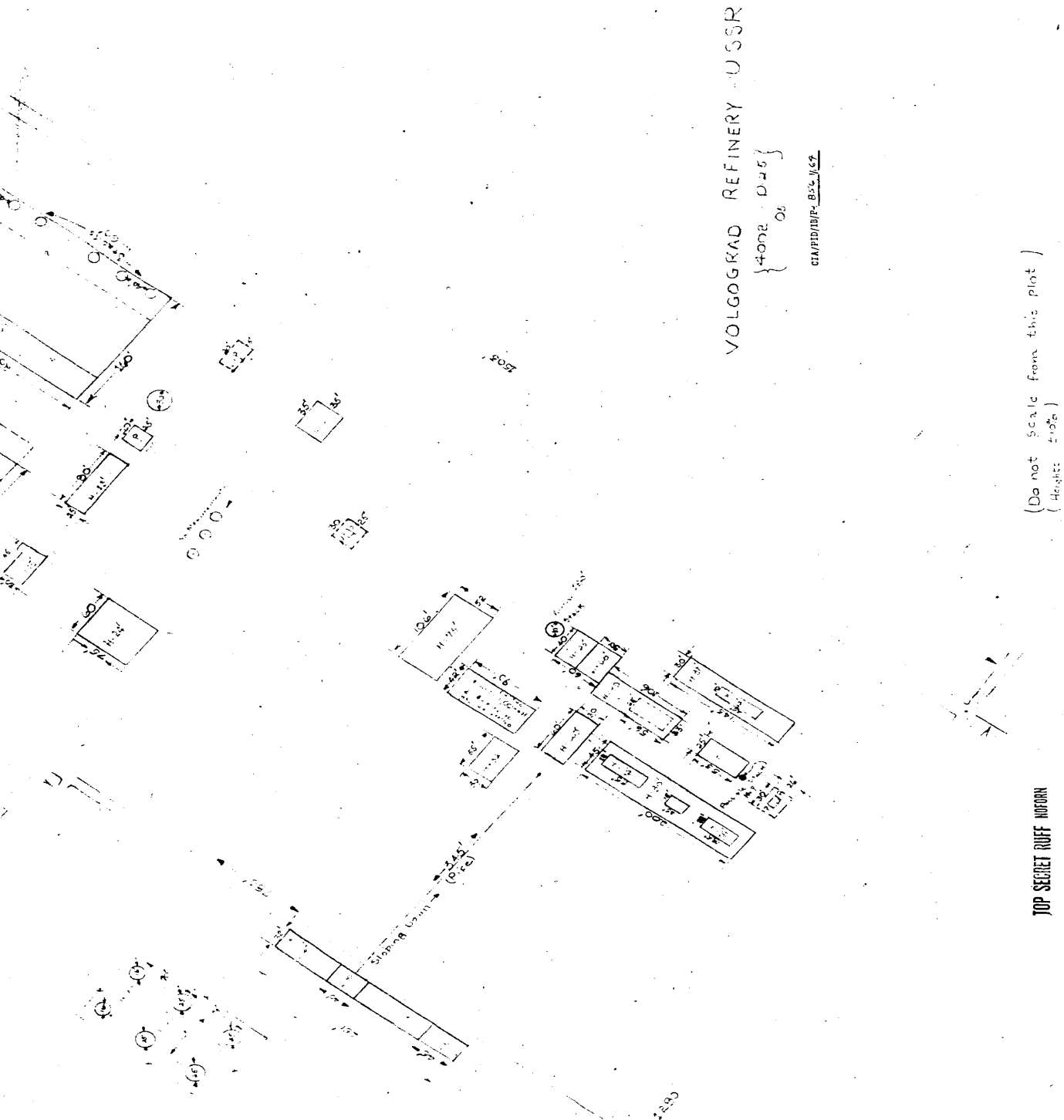
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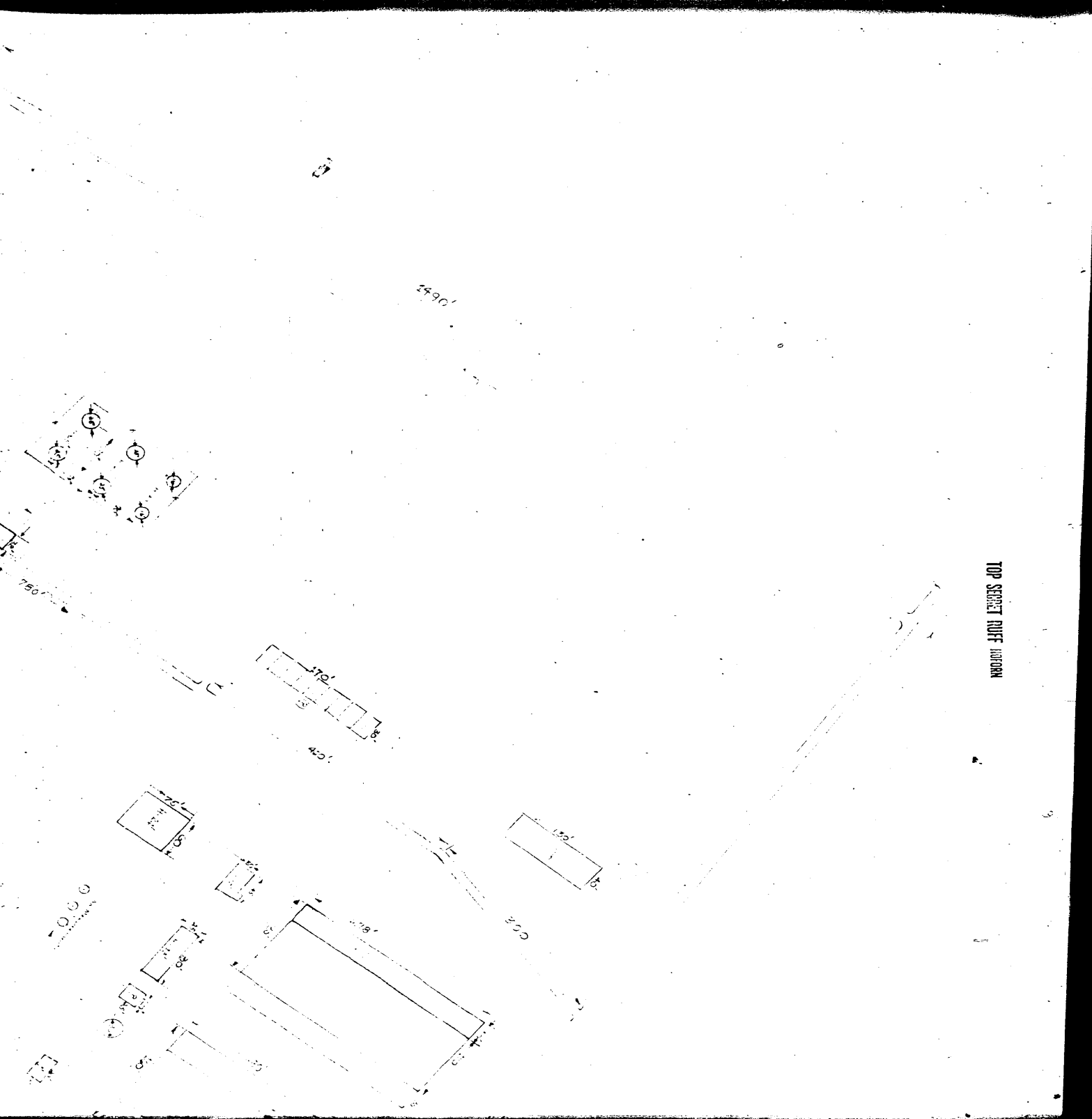


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