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PHOTOGRAPHIC INTERPRETATION REPORT



**POSSIBLY
AMM-RELATED ACTIVITY
FOUR MOSCOW
SA-I SAM SITES, USSR**

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NIMA/DOD

TCS-81617/65
DECEMBER 1965
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PHOTOGRAPHIC INTERPRETATION REPORT

POSSIBLY AMM-RELATED ACTIVITY FOUR MOSCOW SA-I SAM SITES USSR

DECEMBER 1965

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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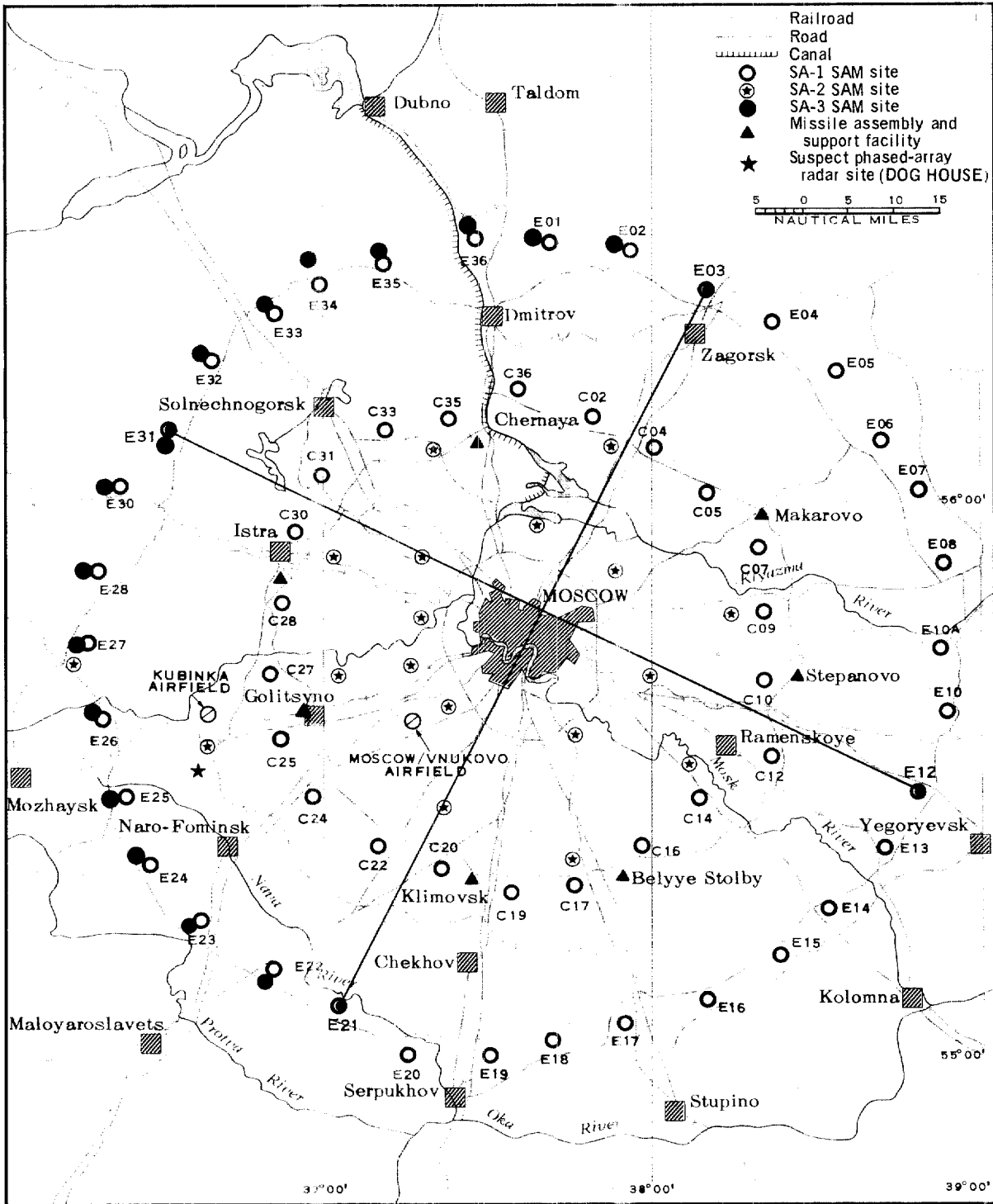


FIGURE 1. LOCATION OF MOSCOW SA-1 SAM SITES HAVING POSSIBLY AMM-RELATED ACTIVITY.

POSSIBLY AMM-RELATED ACTIVITY FOUR MOSCOW SA-1 SAM SITES, USSR

SUMMARY

Continuing analysis of the Moscow area for AMM deployment has revealed 4 additional SA-1 SAM sites with construction activity that may be related to AMM deployment (Figure 1). Possibly significant construction has been observed in the support areas of 3 SA-1 SAM sites, and a probable triad facility is being constructed outside an SA-1 launch area.

Large multistory apartment-type buildings have been observed at SAM Sites E03-1, E12-1, and E21-1. Previously, such buildings have been added to the support areas of SA-1 sites prior to the construction of triads.

At SAM Site E31-1, not only have comparable buildings been added to the support area, but also a probable triad facility has been identified. It is located approximately 6,000 feet north of the launch area, marking the first major change in triad siting since this type of facility was first deployed around Moscow.

Figure 1 indicates that each site is diagonally opposed to one on the other side of Moscow which also has some possibly significant construction, indicating a similarity to the deployment concept already established at Moscow and the Sary-Shagan Antimissile Test Center (SSATC). 1/

INTRODUCTION

Construction of large multistory apartment-type buildings has been observed in support areas of SAM Sites E03-1, E12-1, and E21-1. As of [redacted] however, no activity has been observed at these sites which could be directly related to construction of triads, although the large apartment-type buildings are similar to those in the support areas of known triad facilities at SAM Sites E05-1, E15-1, E24-1, and E33-1.

At SAM Site E31-1, construction of the first multistory apartment-type building was underway in [redacted] and there was a gradual increase in the support area at the site prior to the first observation of construction of a triad facility there in [redacted]. This triad is the first to be constructed at a distance from the SA-1 launch area.

The possibly AMM-associated activity in the support areas of the sites is considered first; and an analysis of the developments at SAM Site E31-1, which appears to be furthest advanced, is presented in the following section.

CHANGES IN SUPPORT AREAS

By the end of [redacted] the support areas of SAM Sites E03-1 (56-22N 38-11E), E12-1 (55-28N 38-49E), E21-1 (55-04N 37-01E), and E31-1 (56-07N 36-29E) all had large multistory apartment-type buildings which had been added since [redacted].

At SAM Site E03-1 (Figure 2), construction of the 3 large buildings in the support area was first observed in [redacted].

At SAM Site E12-1 (Figure 3), 1 large multistory apartment-type building was first observed under construction in [redacted]. The second was under construction in [redacted] and the third was first observed in [redacted].

At Site E21-1 (Figure 4), 2 of the buildings were under construction when first observed in [redacted] and the third was under construction in [redacted]. The construction of 1 large multistory apartment-type building at SAM Site E31-1 was first observed in [redacted] and the other 2 were under construction when first observed in [redacted].

Table 1 gives construction chronology, showing when the 3 multistory apartment-type buildings were first observed at the 4 sites.

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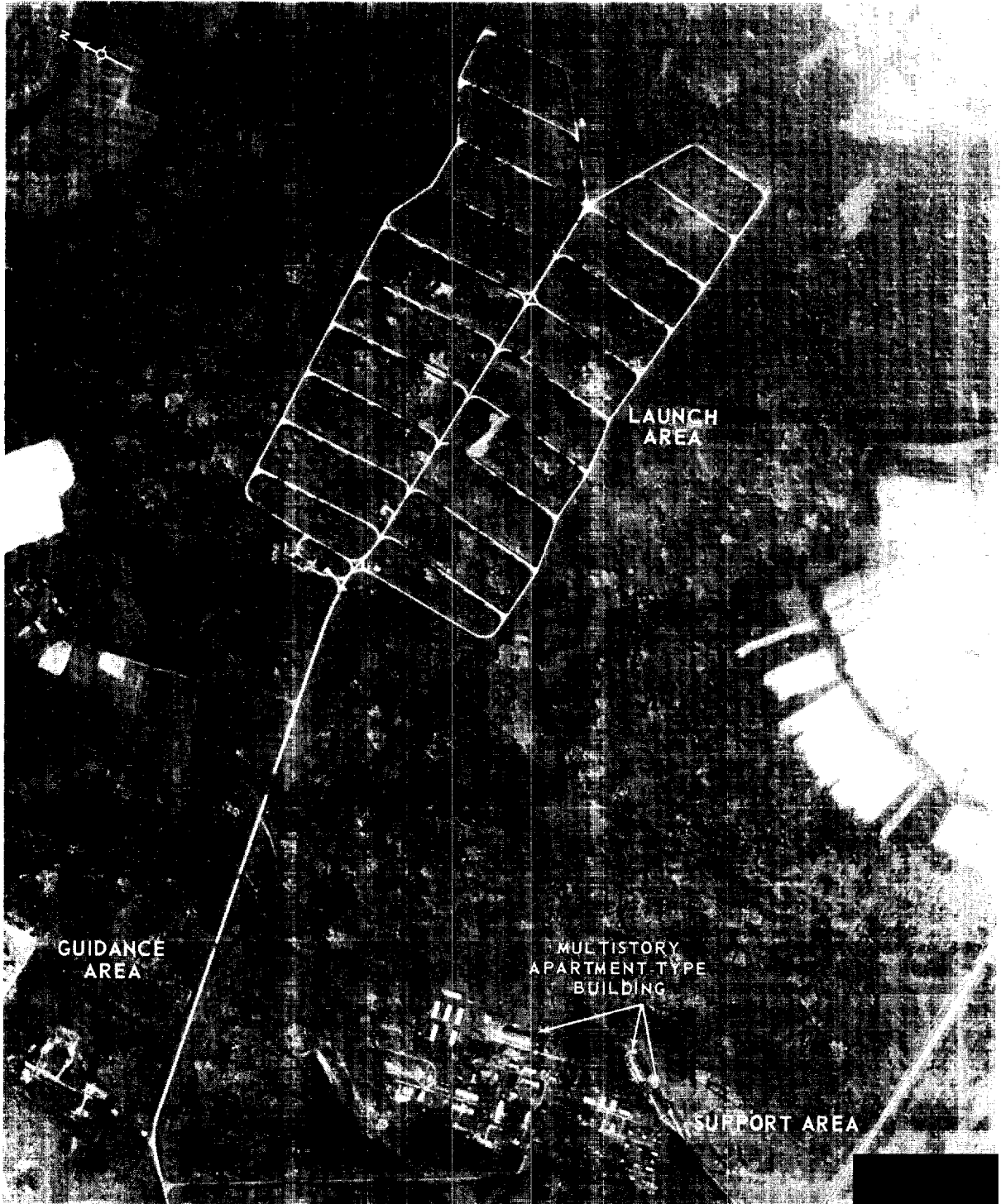
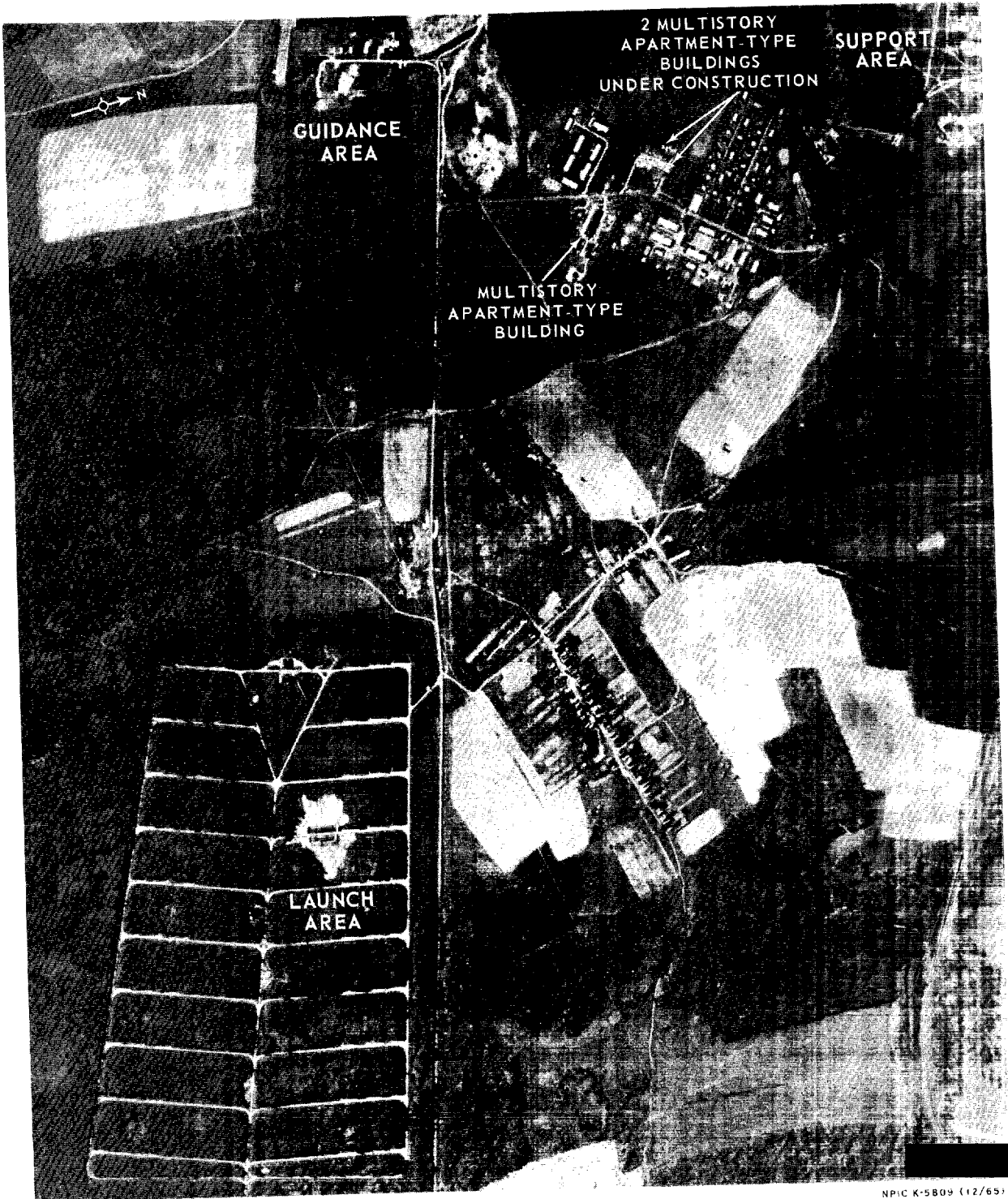


FIGURE 2. MOSCOW SAM SITE E03-1.

NPIC X-5808 (1278)

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FIGURE 3. MOSCOW SAM SITE E12-1.

NPIC K-5809 (12/65)

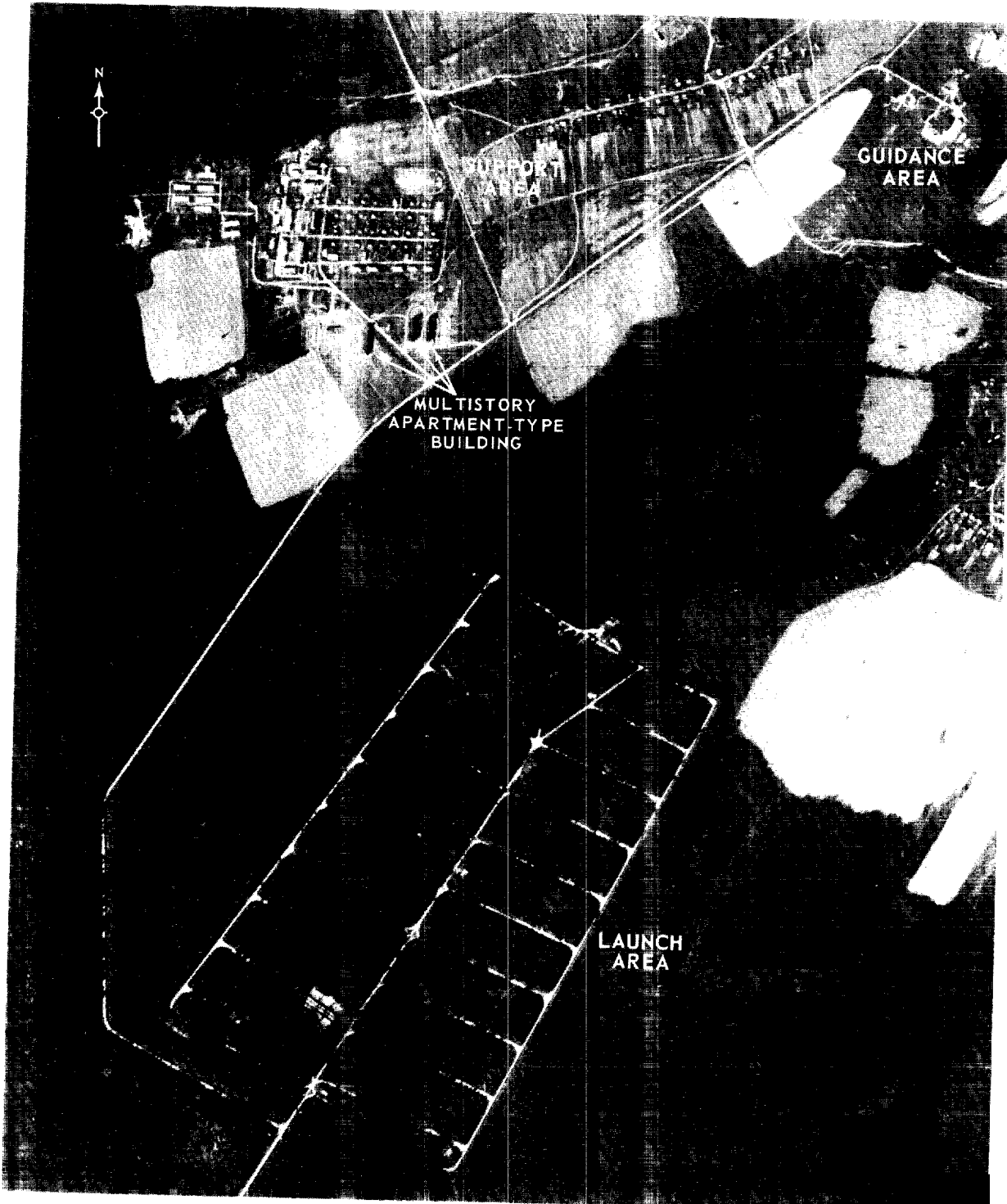


FIGURE 4. MOSCOW SAM SITE E21-1.

NPIC K-5B10 (12/65)

25X1D

Table 1. First Observation of the Multistory Apartment-type Buildings

	Site E03-1	Site E12-1	Site E21-1	Site E31-1
	D	D	D	D
	IDO	D	NC	NC
	C, P	D	NC	NP
	CC	CC	NC	NC
	ND	NP	NC	H
	NC	P	NC	NC
	NC	D	NC	NC
	3 bldgs FO	1st bldg FO	1st & 2d bldgs FO	ND
	ND, H, S	H, S	H, S	H, S
		2d bldg FO	3d bldg FO	NC
				1 bldg FO
				H
				NAC
				NAC
				NC
		3d bldg FO		2d & 3d bldgs FO

Key to abbreviations:

C - clear
CC - cloud covered
D - dark
FO - first observed

H - haze
IDO - identification only
NAC - no apparent change
NC - not covered

ND - not discernible
NP - not present
P - poor interpretability
S - snow

SAM SITE E31-1

A review of earlier photographic coverage of SAM Site E31-1 revealed a gradual increase in the size of the support area, and construction of the first large multistory apartment-type building was noted in [redacted]. Construction on the probable triad facility was first observed in [redacted]. At that time, a bypass road was under construction, branching northward from the launch area service road. Photography of [redacted] showed further extension of the road to an area in which there were 2 clearings. By [redacted] (Figure 5), these 2 clearings had been enlarged and a third was apparent.

The triad area is approximately 6,000 feet north of the launch area, but no reason is evident on available photography for this variation from the previous location of sites within

the launch area. The terrain is similar in the launch and probable triad areas, both are at approximately 690-foot elevation, both are in heavy stands of trees, and both are oriented on the same azimuth, [redacted] (Figure 6). Orientation of the launch area was computed by using the centerline road; orientation of the probable triad was based on the perpendicular bisector of an imaginary line between the center points of clearings B and C.

The 3 clearings are connected by a grid pattern of roads or trails. In [redacted] the largest clearing (Figure 6, item A), measured 250 by 235 feet, and the 2 smaller clearings, B and C, measured approximately 240 by 175 and 225 by 170 feet respectively. The clearings form a triangle with sides 830, 950, and 1,135 feet long (A-B-C).

A fourth clearing, D, measured approximately 260 feet in length by 245 feet in width

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25X1D

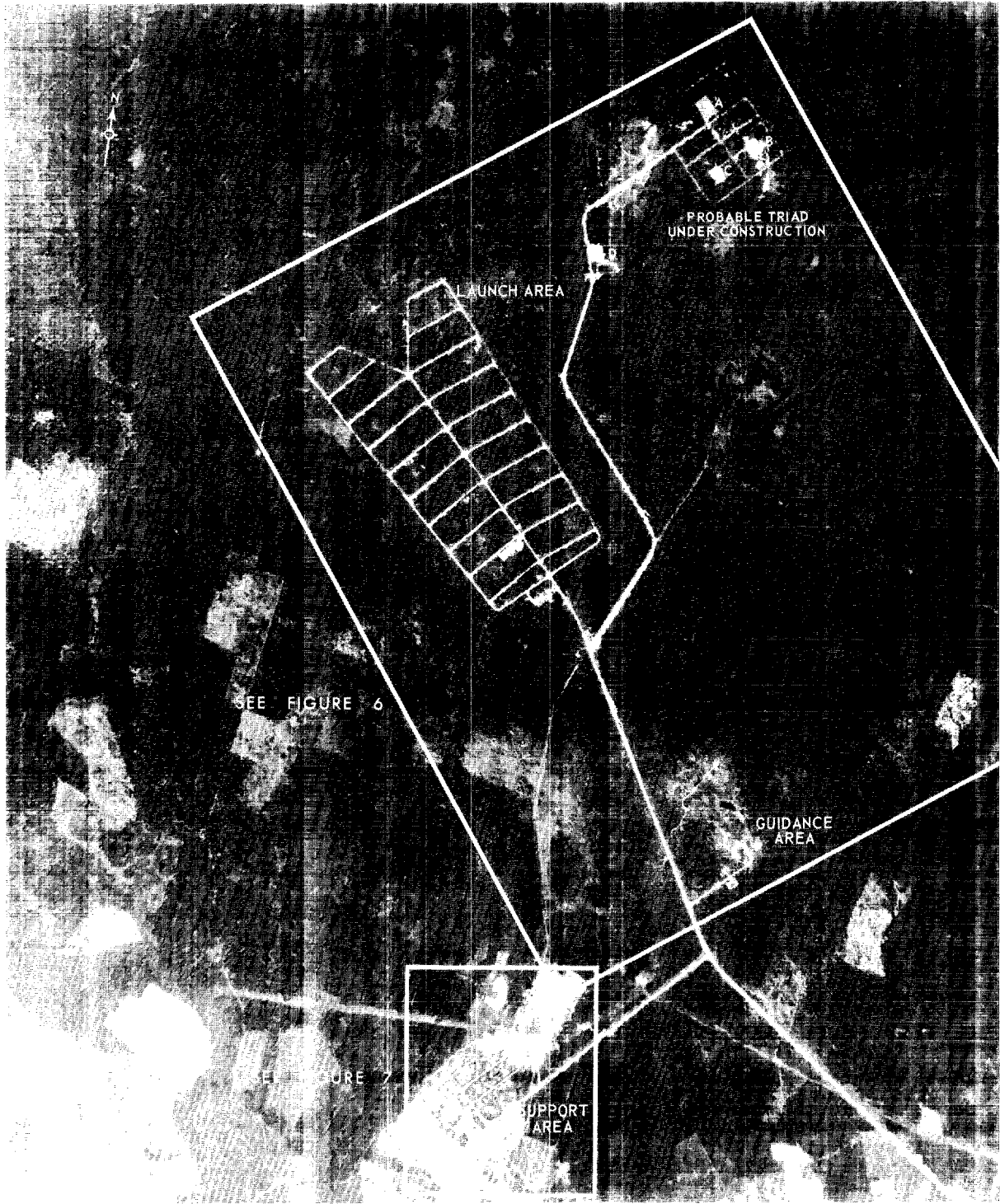
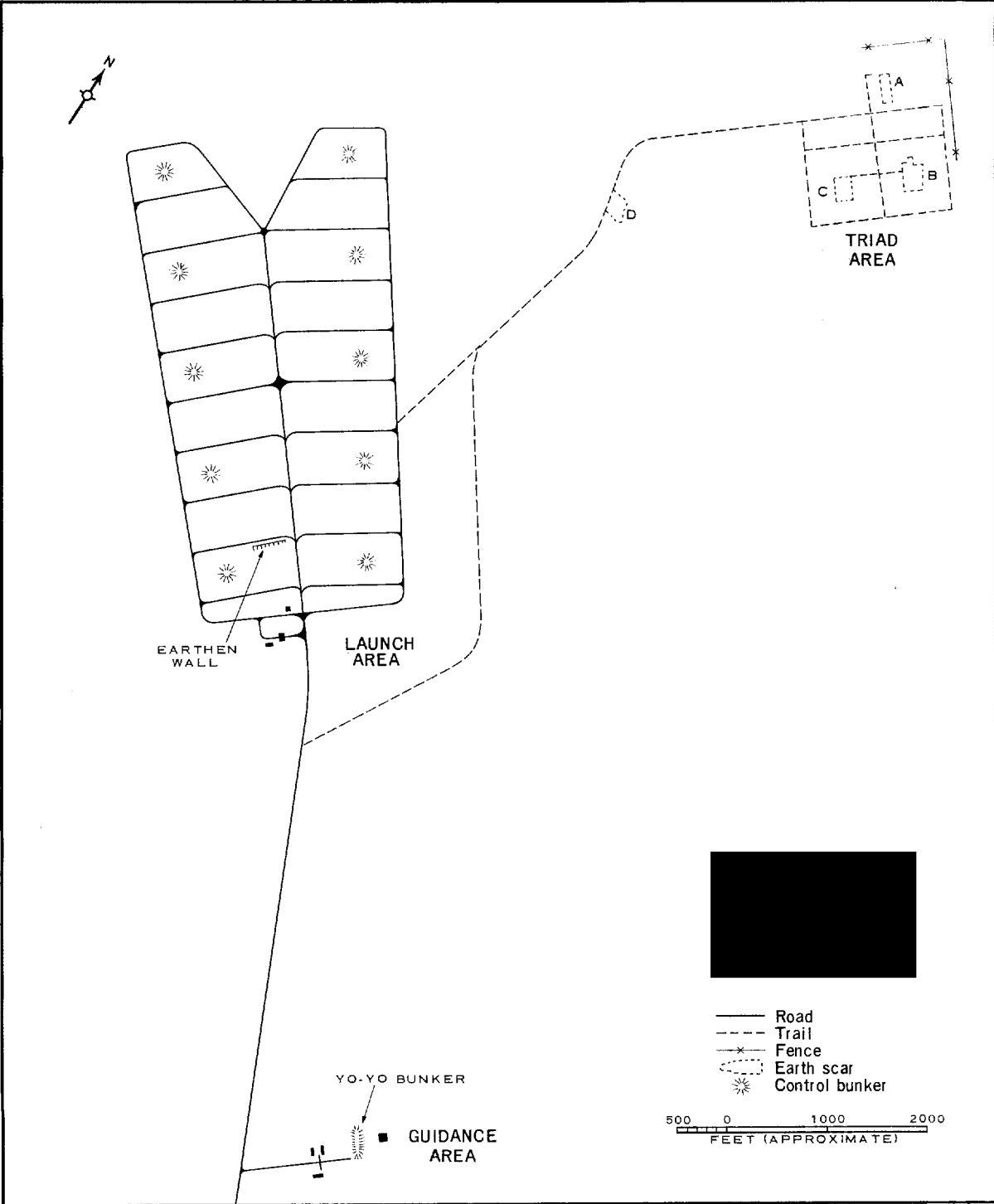


FIGURE 5. MOSCOW SAM SITE E31-1.

NPIC K-5811 (12/65)

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FIGURE 6. LAUNCH AREA AND PROBABLE TRIAD.

NPIC K-5812 (12/65)

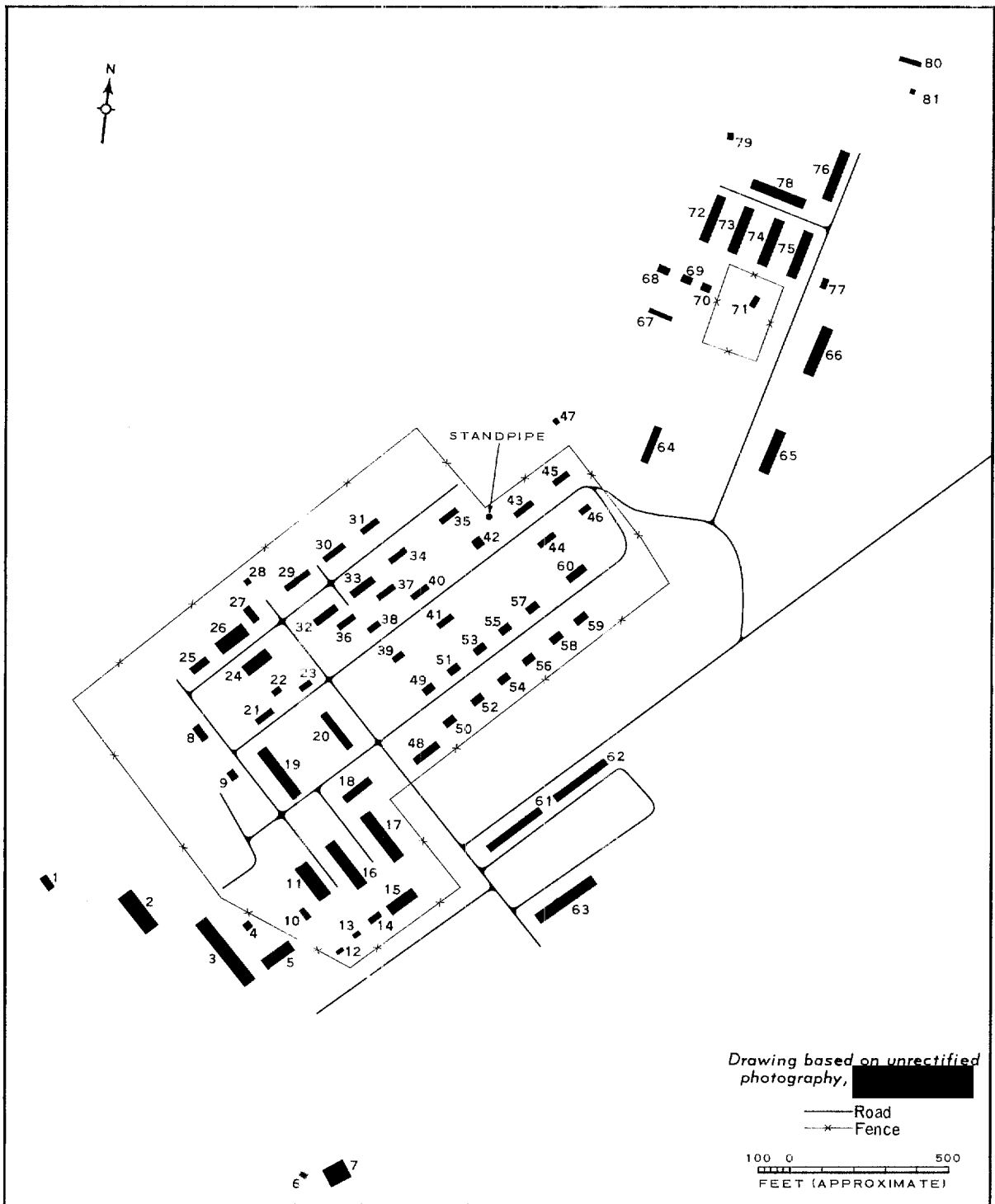


FIGURE 7. SUPPORT AREA.

NPIC K-5813 (12/65)

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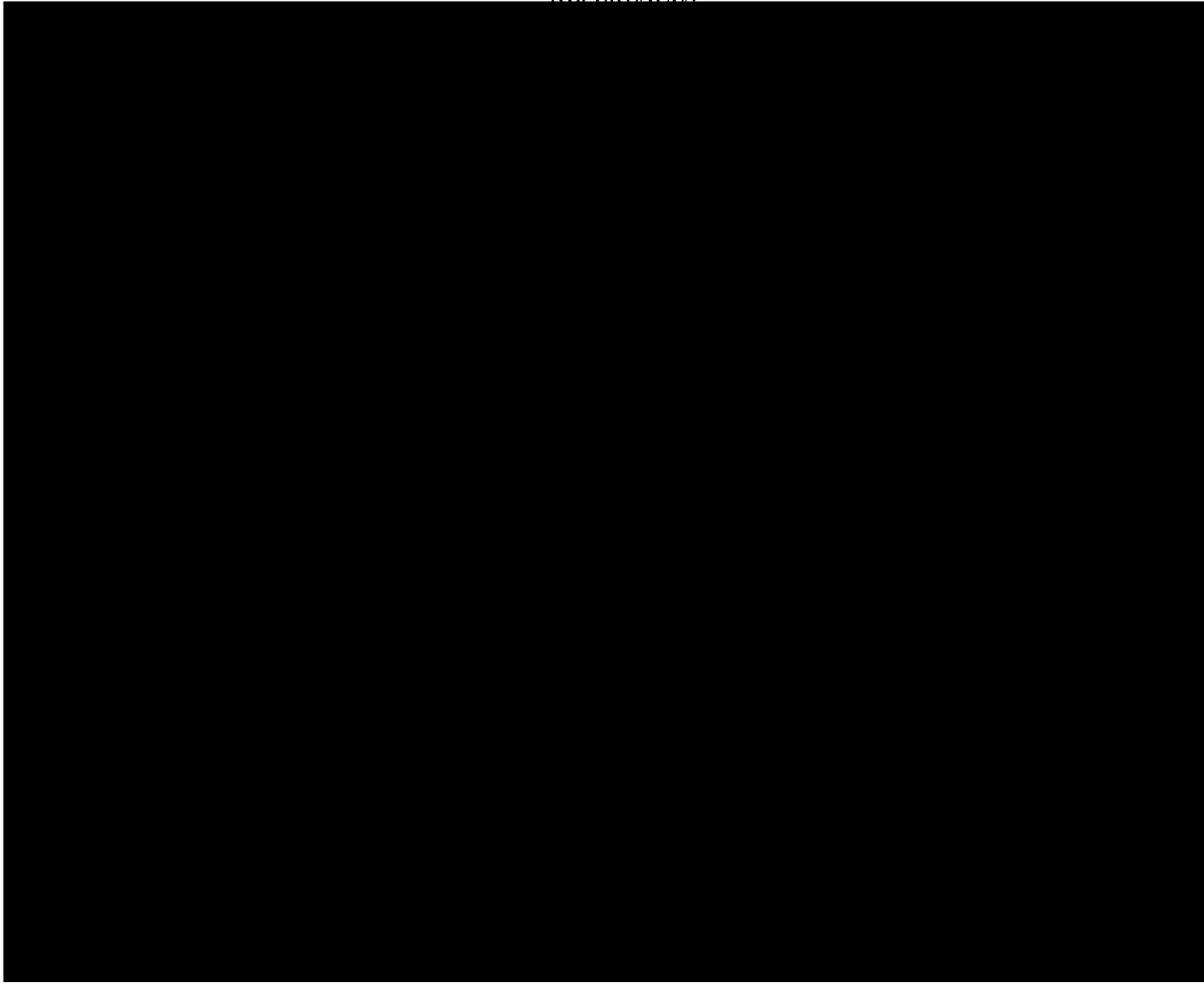
and is located on the east side of the triad facility service road. This clearing, which was first observed in [REDACTED] may be associated with the construction of a second triad facility; however, as of [REDACTED] there had been no indication of additional clearings that would complete the triangular pattern.

A chronology of the development of the probable triad is portrayed in Figure 6, and a brief description of individual components of the support area follows (item numbers are keyed to Figure 7).

- | | | | |
|-------|--|-------|--|
| 1 | Support building 45 by 30 feet, probably flat roof | 20 | Barracks-type building 135 by 30 feet, gable roof |
| 2 | Support building 140 by 60 feet, flat roof | 21 | Support building 60 by 30 feet, gable roof |
| 3 | Multistory apartment-type building 250 by 45 feet, flat roof | 22 | Support building 20 by 15 feet, probably gable roof |
| 4 | Possible building 35 by 25 feet, roof configuration undetermined | 23 | Support building 35 by 20 feet, probably gable roof |
| 5 | Support building 110 by 45 feet, flat roof | 24 | Barracks-type building 95 by 45 feet, gable roof |
| 6 | Possible building 30 by 30 feet, roof configuration undetermined | 25 | Support building 55 by 30 feet, gable roof |
| 7 | Support building 75 by 75 feet, flat roof | 26 | Barracks-type building 110 by 45 feet, gable roof |
| 8 | Support building 50 by 25 feet, probably gable roof | 27 | Support building 35 by 30 feet, probably gable roof |
| 9 | Support building 30 by 25 feet, probably gable roof | 28 | Probable building 20 by 20 feet, roof configuration undetermined |
| 10 | Support building 25 by 20 feet, probably gable roof | 29 | Multifamily-type dwelling 85 by 35 feet, gable roof |
| 11 | Barracks-type building 130 by 50 feet, gable roof | 30 | Multifamily-type dwelling 75 by 25 feet, gable roof |
| 12-13 | Support buildings 25 by 20 feet, probably gable roofs | 31 | Multifamily-type dwelling 55 by 25 feet, gable roof |
| 14 | Support building 30 by 15 feet, gable roof | 32-33 | Multifamily-type dwellings 85 by 35 feet, gable roofs |
| 15 | Barracks-type building 95 by 40 feet, gable roof | 34-37 | Multifamily-type dwellings 55 by 25 feet, gable roofs |
| 16-17 | Barracks-type buildings 180 by 45 feet, gable roofs | 38-39 | Single family-type dwellings 40 by 25 feet, gable roofs |
| 18 | Barracks-type building 100 by 30 feet, gable roof | 40-41 | Multifamily-type dwellings 55 by 25 feet, gable roofs |
| 19 | Probable administration building 200 by 35 feet, gable roof | 42 | Single family-type dwelling 30 by 30 feet, probably gable roof |
| | | 43-44 | Multifamily-type dwellings 55 by 25 feet, gable roofs |
| | | 45-46 | Single family-type dwellings 40 by 25 feet, gable roofs |
| | | 47 | Support building 20 by 20 feet, probably gable roof |
| | | 48 | Multifamily-type dwelling 90 by 30 feet, gable roof |
| | | 49-59 | Single family-type dwellings 40 by 25 feet, gable roofs |
| | | 60 | Multifamily-type dwelling 55 by 25 feet, gable roof |

- | | | | |
|-------|---|-------|---|
| 61-63 | Multistory apartment-type buildings
210 by 40 feet, flat roofs | 72-76 | Barracks-type buildings 145 by 40
feet, gable roofs |
| 64 | Support building 125 by 35 feet, gable
roof | 77 | Support building 50 by 25 feet,
probably gable roof |
| 65-66 | Barracks-type buildings 145 by 40 feet,
gable roofs | 78 | Barracks-type building 180 by 40 feet,
gable roof |
| 67 | Support building 80 by 20 feet, gable
roof | 79 | Support building 20 by 20 feet, prob-
ably gable roof |
| 68-70 | Single family-type dwellings 40 by 25
feet, gable roofs | 80 | Support building 70 by 20 feet, prob-
ably gable roof |
| 71 | Probable support building 70 by 20
feet, probably gable roof | 81 | Possible structure 20 by 20 feet, roof
configuration undetermined. |

REFERENCES



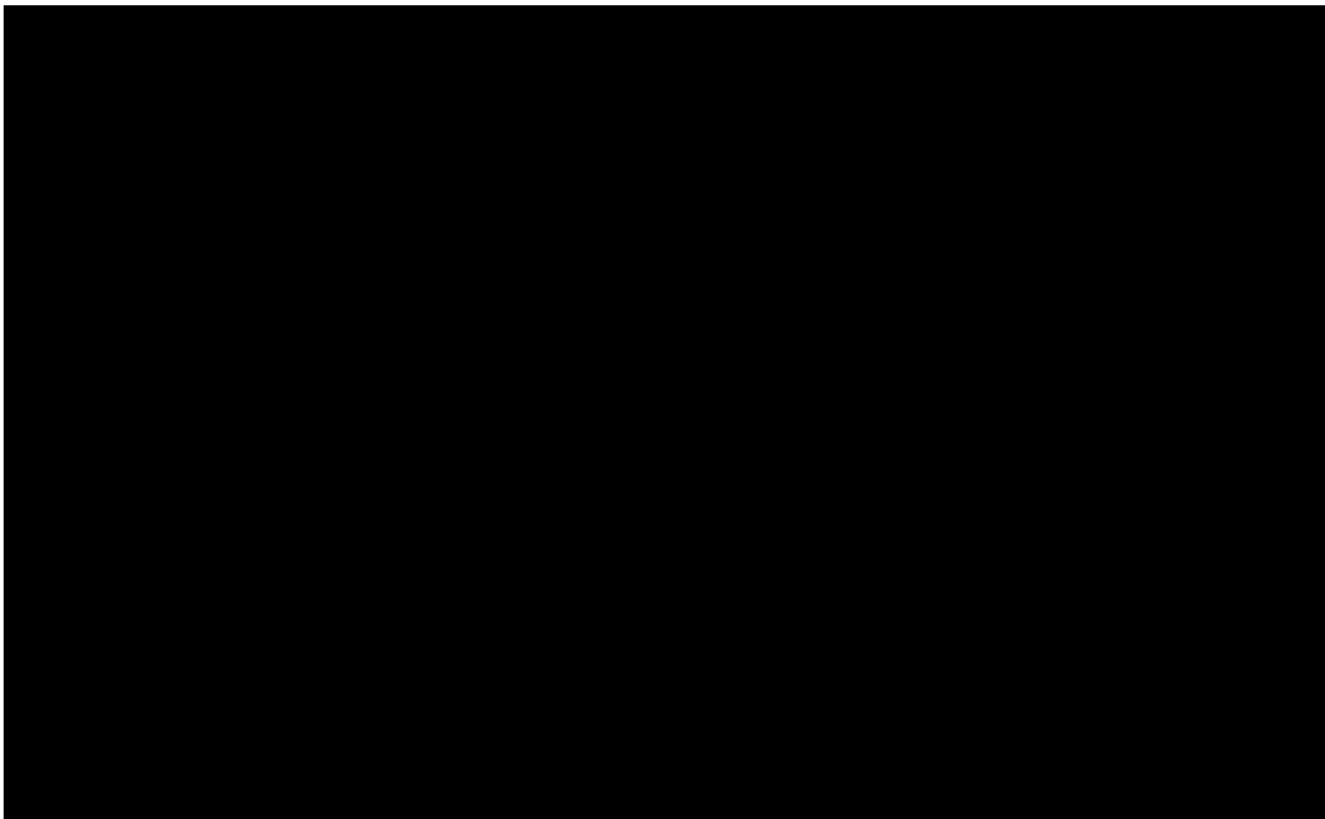
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MAPS OR CHARTS

DIA. US Air Target Chart, Series 200, Sheet 0154-22HL, 2d ed, Mar 63 (SECRET)

DOCUMENT

1. NPIC. R-147/63, *Possible Antimissile Missile Associated Facilities, Moscow Area, USSR*, Jul 63 (TOP SECRET CHESS RUFF)

REQUIREMENT

CIA. C-RR5-82,735

NPIC PROJECT

11438/65

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