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PHOTOGRAPHIC INTERPRETATION REPORT



**PROBABLE ABM  
LAUNCH COMPLEX E33  
MOSKVA, USSR**

[Redacted]

25X1

MARCH 1967

COPY 116

8 PAGES

[Redacted]

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Declass Review by NIMA/DOD

GROUP 1: EXCLUDED FROM  
AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION

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PREFACE

This photographic interpretation report is one of a series published in partial response to CIA requirement C-DI5-83,143 which requests detailed line drawings, to scale, of facilities associated with probable ABM deployment in the Moskva area. The information contained in this report is based on [redacted] photography of [redacted] and does not reflect changes observed since that time.

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The precision target plots included in this report are mathematically rectified projections of the area. Plots are compiled by utilizing precision mensuration instruments. However, only partial stereoscopic imagery was available for photo interpretation because of cloud cover. Identifiable image points are measured and their coordinate values mathematically transformed by a computer. This transformation corrects for camera and attitude (pitch, roll and yaw) induced distortions but does not correct for displacement due to ground relief and object height.

All mensuration utilized in the preparation of this report was accomplished by NPIC/TID. The horizontal and vertical measurements cited are computed values, as derived, and do not reflect numerical round-off unless otherwise specified. In the Launch Area, horizontal measurements are accurate to within plus or minus [redacted] whichever is greater. Vertical measurements are accurate to [redacted]. In the Support Area, horizontal measurements are accurate to within plus or minus 4 percent and vertical measurements to within plus or minus 5 feet.

These target plots represent the most accurate data compiled to date, but the user is cautioned to exercise care in scaling distances or determining azimuths from these plots for relief can introduce errors in distance and alignment.

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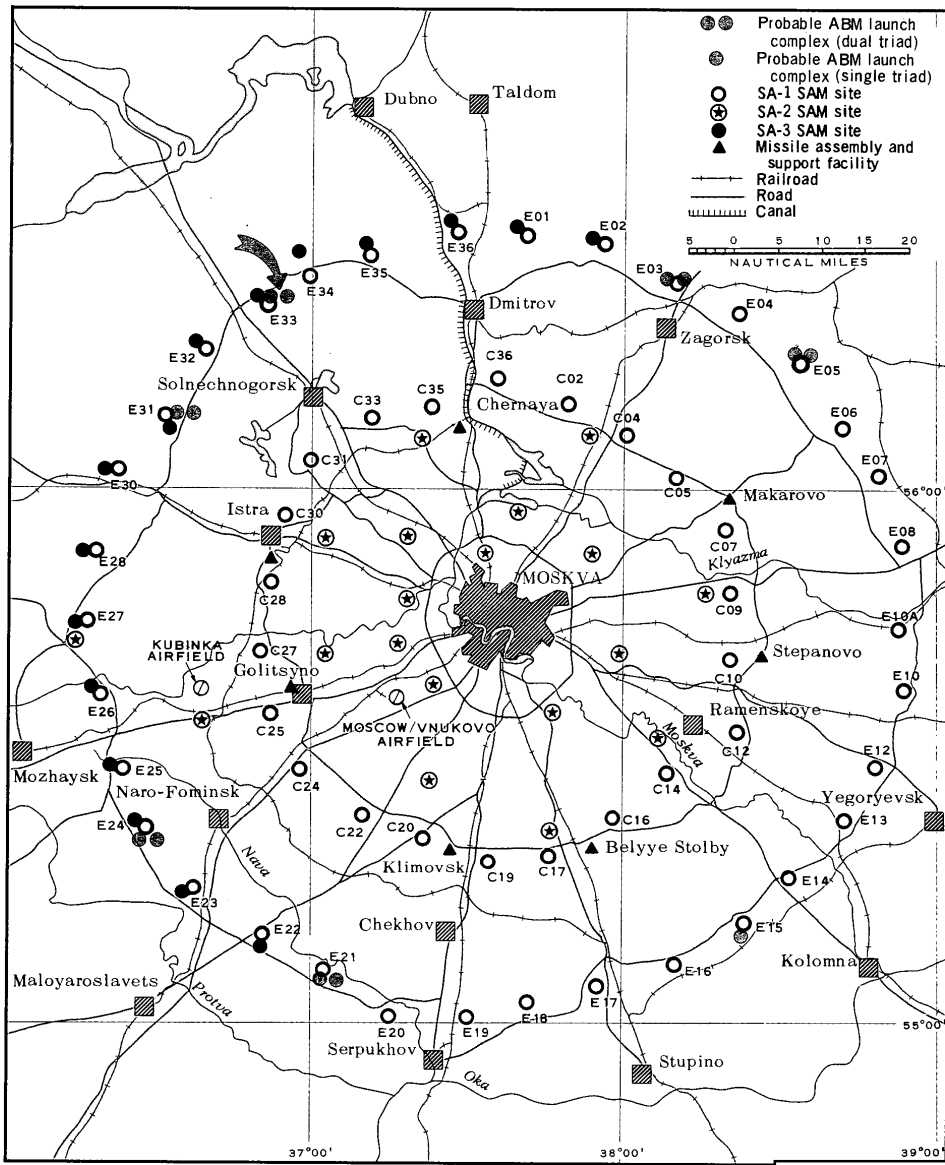


FIGURE 1. LOCATION OF PROBABLE ABM LAUNCH COMPLEX E33, MOSKVA, USSR.

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PROBABLE ABM LAUNCH COMPLEX E33

MOSKVA, USSR

Probable ABM Launch Complex E33 is located approximately 45 nautical miles (nm) northwest of Moskva, USSR, at 56-20N 36-43E (Figure 1). The complex, which is superimposed on the north end of the Launch Area of SA-1 SAM Site E33-1, consists of a dual triad and preliminary construction work on 8 launch positions. The probable ABM launch complex is separately secured by a double fence. It also contains a T-shaped earth-mounded building, a heating plant, a substation, a probable security building at the entrance to the complex, and approximately 8 support and miscellaneous buildings (Figures 2 and 3).

The first activity observed in [redacted] at the complex was the construction of an access road. In [redacted] Triad 1 was observed under construction for the first time. It now appears to be externally complete (Figure 3). Building A in Triad 1 measures [redacted] high. An environmental shelter 110 feet in diameter encloses a solid parabolic dish 60 feet in diameter. Buildings B and C measure [redacted]. An environmental shelter [redacted] is on the roof of each building. However, the antenna within each shelter has not been identified. Building D [redacted]. Although the height of Building D cannot be determined, it is less than that of Building A. The distances between the estimated centers of the environmental shelters on Buildings A, B, and C in Triad 1 are as follows: between Buildings A and B, 990 feet; between Buildings B and C, 800 feet; and between Buildings C and A, 885 feet.

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Eight launch positions (1B1-1B4, 1C1-1C4)\* under construction have been identified in Triad 1. This construction was first noted in [redacted]. Launch Positions 1B1-1B4 appear to be associated with Building B and Launch Positions 1C1-1C4, with Building C. At Launch Position 1B2 a circular object or structure [redacted] in diameter is the only item related to a launcher-erector mechanism that has been identified. The minimum distance between a launch position and the estimated center of an environmental shelter is approximately 215 feet and the maximum distance, approximately 375 feet.

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Triad 2 (Figure 3) was first identified in [redacted] when it was under construction. Earth scarring was discernible at this site in [redacted]. The triad now appears to be in a late stage of construction. Building A measures [redacted]. Two wings, one [redacted] feet and the other [redacted] are situated at the north and west corners of the building and are parallel to the long axis of the building. A circular base [redacted] for an environmental shelter is on the roof of this building. Buildings B and C measure [redacted]. A circular base for an environmental shelter on the roof of Building B is [redacted]. The circular base for such a shelter on Building C is [redacted]. This difference in size may be due to a discrepancy in mensuration rather than to a real difference in size. A building similar to Building D in Triad 1 is not present in Triad 2. Two probable tanks, each 35 feet in diameter, are under construction north of Building A. The distances between the estimated centers of the circular bases for the environmental shelters on the principal buildings

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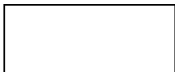
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\*The first number in each designation is the triad in which the launch position is located; the letter is the building with which the position is associated; and the last digit, the launch position itself. Numbers have been assigned to each position in a clockwise direction around the appropriate triad building.

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FIGURE 2. PROBABLE ABM LAUNCH COMPLEX E33.

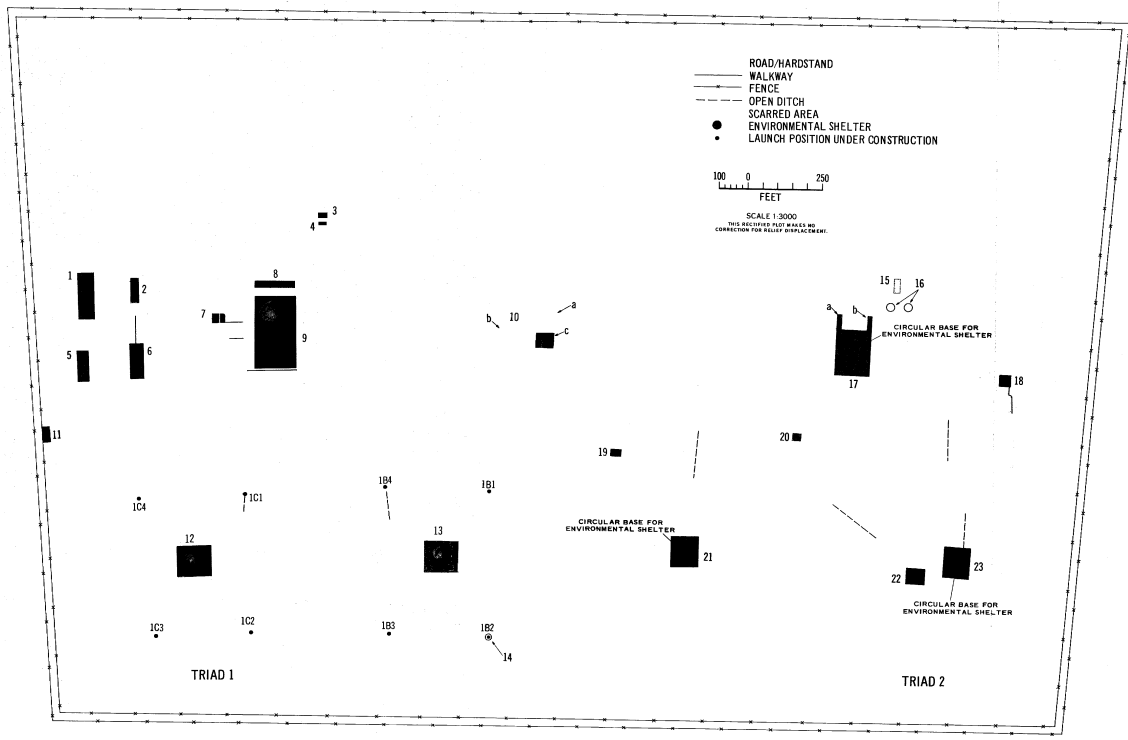


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ITEM	DESCRIPTION
1	SUPPORT BLDG
2	HEATING PLANT
3	BLDG
4	BLDG
5	SUBSTATION
6	SUPPORT BLDG
7	BLDG
8	BLDG D, TRIAD 1
9	BLDG A, TRIAD 1
10	ENVIRONMENTAL SHELTER
11	T-SHAPED, EARTH-BOUNDED BLDG
a	CROSSBAR
b	STEM
c	HIGH BAY
12	PROBABLE SECURITY BLDG
13	BLDG C, TRIAD 1
14	ENVIRONMENTAL SHELTER
15	BLDG B, TRIAD 1
16	ENVIRONMENTAL SHELTER
17	CIRCULAR OBJECT OR STRUCTURE
18	BLDG UNDER CONSTRUCTION
19	PROBABLE TANKS UNDER CONSTRUCTION (2)
20	BLDG A, TRIAD 2
a	WING
b	CIRCULAR BASE FOR ENVIRONMENTAL SHELTER
21	BLDG
22	BLDG
23	BLDG
24	BLDG C, TRIAD 2
25	CIRCULAR BASE FOR ENVIRONMENTAL SHELTER
26	ENVIRONMENTAL SHELTER
27	SH-1 CONTROL BUNKER
28	BLDG B, TRIAD 2
29	CIRCULAR BASE FOR ENVIRONMENTAL SHELTER

FIGURE 3. LAYOUT OF PROBABLE ABM LAUNCH COMPLEX E33.

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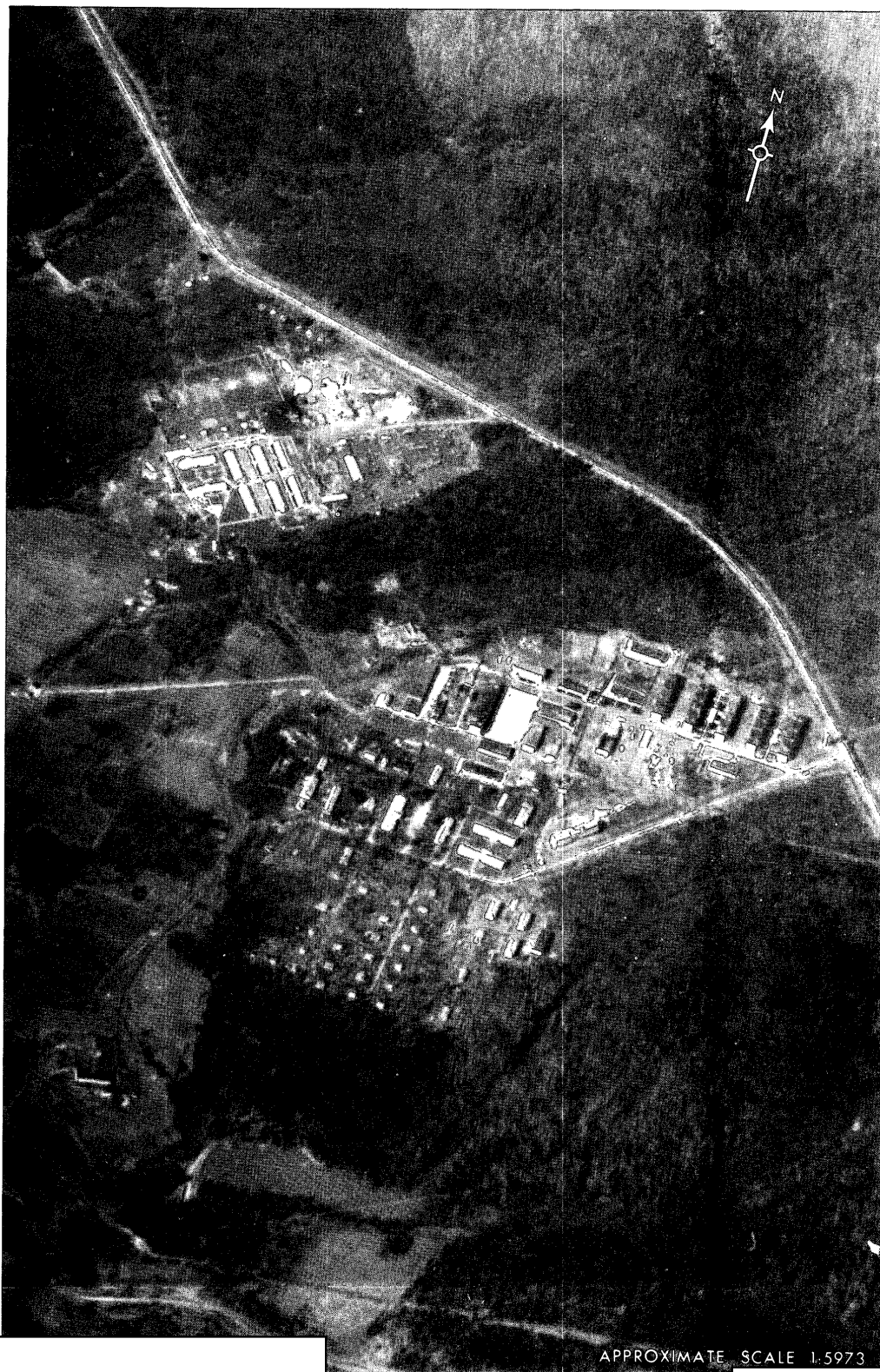


FIGURE 4. SUPPORT AREA FOR PROBABLE ABM LAUNCH COMPLEX E33 AND SAM SITE E33-1.

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ITEM	DESCRIPTION
1	SUPPORT BLDG
2	SUPPORT BLDG
a	WING
3	SUPPORT BLDGS (6)
4	SUPPORT BLDG
a	WEST SECTION
b	EAST SECTION
c	NE SECTION
5	STRUCTURE
6	STRUCTURE
7	SUPPORT BLDG, FLAT ROOF, 2 LEVELS
a	FIRST LEVEL
b	SECOND LEVEL
8	SUPPORT BLDG, GABLE ROOF
9	SUPPORT BLDGS (4), GABLE ROOFS
10	SUPPORT BLDG
11	PROBABLE SHED
12	PROBABLE SHED
13	STRUCTURE
14	SUPPORT BLDG
a	EXTENSION
15	STRUCTURE
16	WAREHOUSE-TYPE BLDG, GABLE ROOF
a	EXTENSION
17	SUPPORT BLDG, IRREGULARLY SHAPED, GABLE & FLAT ROOFS
a	MAIN SECTION
b	SOUTH WING
c	WING
18	WAREHOUSE-TYPE BLDGS (6), GABLE ROOFS
19	SUPPORT BLDG, PROBABLE FLAT ROOF
20	SUPPORT BLDG, GABLE ROOF
a	NORTH END
b	SOUTH END
21	STRUCTURE, PROBABLE FLAT ROOF
22	PROBABLE SHED, FLAT ROOF
23	SUPPORT BLDG, GABLE ROOF
24	STRUCTURE, PROBABLE FLAT ROOF
25	SUPPORT BLDG, GABLE ROOF
26	SUPPORT BLDG, GABLE ROOF
27	STRUCTURE, PROBABLE FLAT ROOF
28	BLDG UNDER CONSTRUCTION
29	BLDG UNDER CONSTRUCTION
30	BLDG UNDER CONSTRUCTION
31	SUPPORT BLDG, GABLE ROOF
32	SUPPORT BLDG, FLAT ROOF, 2 LEVELS
a	NORTH END
b	SOUTH END
33	HEATING PLANT, FLAT ROOF
34	STACK
35	SUPPORT BLDG, FLAT ROOF
36	SUPPORT BLDG, FLAT ROOF
37	SUPPORT BLDG, FLAT ROOF
38	SUPPORT BLDG, FLAT ROOF
39	SUPPORT BLDG, PROBABLE FLAT ROOF
40	PROBABLE SHED, FLAT ROOF
41	SUPPORT BLDG, FLAT ROOF
42	SUPPORT BLDG, FLAT ROOF, 2 LEVELS
a	WEST END
b	EAST END
43	MULTISTORY APARTMENT-TYPE BLDGS (5), FLAT ROOFS
44	STANDPIPE
45	SUPPORT BLDG, PROBABLE GABLE ROOF
46	L-SHAPED SUPPORT BLDG, FLAT ROOF
a	WING
b	WING
47	UNIDENTIFIED STRUCTURE
48	STRUCTURE
49	SUPPORT BLDG, FLAT ROOF
50	SUPPORT BLDG, FLAT ROOF
51	BLDG UNDER CONSTRUCTION
52	SUPPORT BLDG, FLAT ROOF

ITEM	DESCRIPTION
53	SUPPORT BLDG, FLAT ROOF
54	STRUCTURE
55	SUPPORT BLDG, FLAT ROOF
56	STRUCTURE
57	PROBABLE SHED
58	STRUCTURE
59	SUPPORT BLDG, GABLE ROOF
60	SUPPORT BLDG, GABLE ROOF
61	SUPPORT BLDG, FLAT ROOF
62	SUPPORT BLDG
a	EXTENSION
63	STRUCTURE
64	STRUCTURE
65	SUPPORT BLDG, FLAT ROOF
66	SUPPORT BLDG, GABLE ROOF
67	SUPPORT BLDG, GABLE ROOF
68	BARRACKS-TYPE BLDG, HIPPED ROOF
69	SUPPORT BLDG, PROBABLE GABLE ROOF
70	SUPPORT BLDG, GABLE ROOF
71	SUPPORT BLDG, FLAT ROOF
72	STRUCTURE
73	MULTISTORY APARTMENT-TYPE BLDG UNDER CONSTRUCTION, FLAT ROOF
74	STRUCTURE
75	SUPPORT BLDG, PROBABLE GABLE ROOF
76	BARRACKS-TYPE BLDG, GABLE ROOF
a	WING
77	BARRACKS-TYPE BLDG, GABLE ROOF
a	WING
78	BARRACKS-TYPE BLDG, GABLE ROOF
a	WING
79	BARRACKS-TYPE BLDG, GABLE ROOF
a	WING
80	SUPPORT BLDG, GABLE ROOF
81	SUPPORT BLDG, FLAT ROOF
82	STRUCTURE
83	SUPPORT BLDG, GABLE ROOF
84	SUPPORT BLDG, GABLE ROOF
85	SUPPORT BLDG
86	SUPPORT BLDG, GABLE ROOF
87	STRUCTURE
88	SUPPORT BLDG, GABLE ROOF
89	STRUCTURE
90	STRUCTURE
91	STRUCTURE
92	STRUCTURE
93	STRUCTURE
94	BARRACKS-TYPE BLDG, HIPPED ROOF
95	SUPPORT BLDG
96	STRUCTURE
97	HOUSING UNIT
98	HOUSING UNIT
99	OUTBUILDING
100	STRUCTURE
101	STRUCTURE
102	SUPPORT BLDG, FLAT ROOF
a	EXTENSION
103	HOUSING UNITS (2)
104	HOUSING UNITS (10)
105	HOUSING UNITS (7)
106	STRUCTURE
107	BARRACKS-TYPE BLDG, HIPPED ROOF
108	SUPPORT BLDG, GABLE ROOF
109	BARRACKS-TYPE BLDGS (2), HIPPED ROOFS
110	STRUCTURE
111	SUPPORT BLDG, FLAT ROOF
112	STRUCTURE
113	SUPPORT BLDGS (3), GABLE ROOFS
114	SUPPORT BLDG
115	SUPPORT BLDG
116	SUPPORT BLDG, FLAT ROOF
117	STRUCTURE
118	STRUCTURE

\*OVERALL DIMENSIONS, \*\*AVERAGE OVERALL DIMENSIONS.

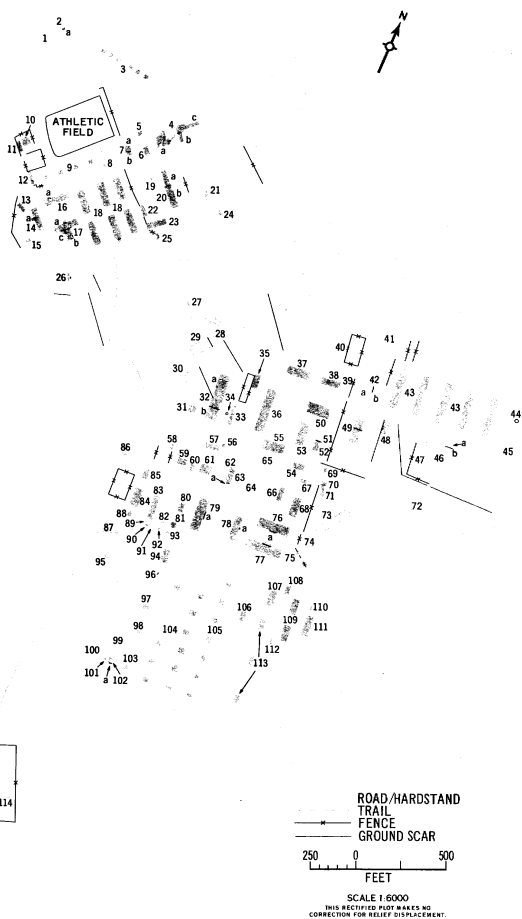


FIGURE 5. LAYOUT OF SUPPORT AREA.

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in Triad 2 are as follows: between Buildings A and B, 810 feet; between Buildings B and C, 920 feet; and between Buildings C and A, 900 feet.

The distance between the estimated center of the environmental shelter on Building A in Triad 1 and the estimated center of the circular base for the shelter on Building A in Triad 2 is 1,925 feet. The distance between the estimated center of the environmental shelter on Building B in Triad 1 and the estimated center of the circular base for the shelter on Building C in Triad 2 is 800 feet.

The T-shaped earth-mounded building 1/ located between Building A in Triad 1 and Building A in Triad 2 measures approximately 380 by 105 feet on the crossbar of the T. The stem is approximately 90 feet wide; the length of the stem cannot be determined. A flat-roofed high bay is located near the intersection of the crossbar and the stem. The high bay appears to be higher than the earth-mounded portions of the building, but the exact height cannot be determined from photography. The building appears to have a drive-through capability, but no road is visible at the entrance to the stem of the T.

The Support Area (Figures 4 and 5), which is utilized by the SA-1 SAM site and the probable ABM launch complex, is approximately 7,000 feet south-east of the SA-1 SAM site Launch Area. The multistory apartment-type buildings, which were first observed in before construction had started on the probable ABM launch complex, are the only facilities in the Support Area which can be associated with Probable ABM Launch Complex E33. This type of building has been seen only in the support areas of those Moskva SA-1 SAM sites where probable ABM launch complexes have been constructed. 2/ 3/ Whether the other buildings and structures in the area are associated with the SAM site or with the probable ABM launch complex cannot be determined from aerial photography.

REFERENCES

MAPS OR CHARTS

ACIC series, scale 1:200,000

DOCUMENTS

1. NPIC. *T-Shaped Buildings at Probable ABM Facilities, Moskva Area, USSR*, Dec 66 (TOP SECRET)
2. NPIC. *Possible AMM-Associated Activity, Moscow Area, USSR*, Aug 65 (TOP SECRET)
3. CIA. PIR-13/64, *Comparison of Possible AMM-Associated Facilities at Moscow and Sary-Shagan, USSR*, May 64 (TOP SECRET)

REQUIREMENT

CIA. C-DI5-83,143 (revised)

NPIC PROJECT

11333/66 (partial answer)

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