

OBSTRUCTION DATA SHEET

**ODS 16
ALLIANCE MUNICIPAL AIRPORT
ALLIANCE, NEBRASKA**

DIGITIZED FROM

**OC 16
SURVEYED 24 SEPTEMBER 1992
7TH EDITION**

8

**HORIZONTAL DATUM NAD83
VERTICAL DATUM NGVD29**



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ATTENTION

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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA No. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS and the OC depict a representation of objects that existed at the time of the OC field survey.

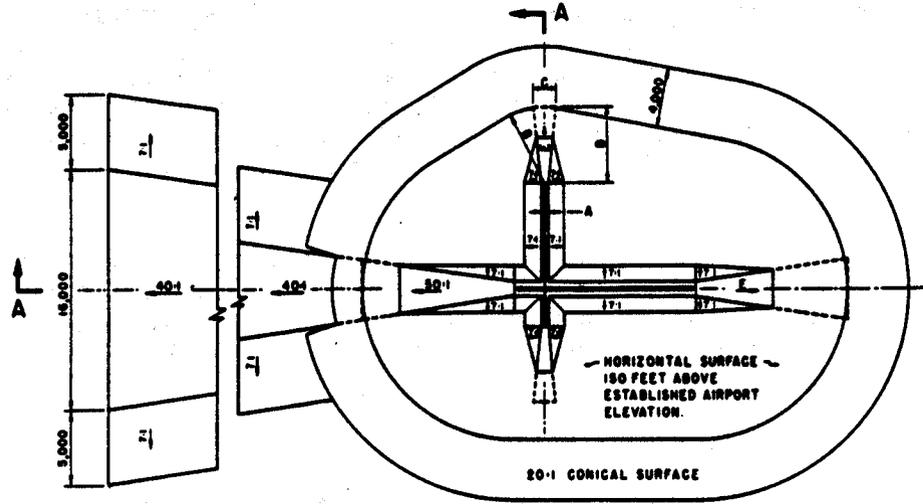
ODS information is arranged as follows:

1. Objects located in an FAR-77 approach or primary and listed with the associated runway (reference runway).
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

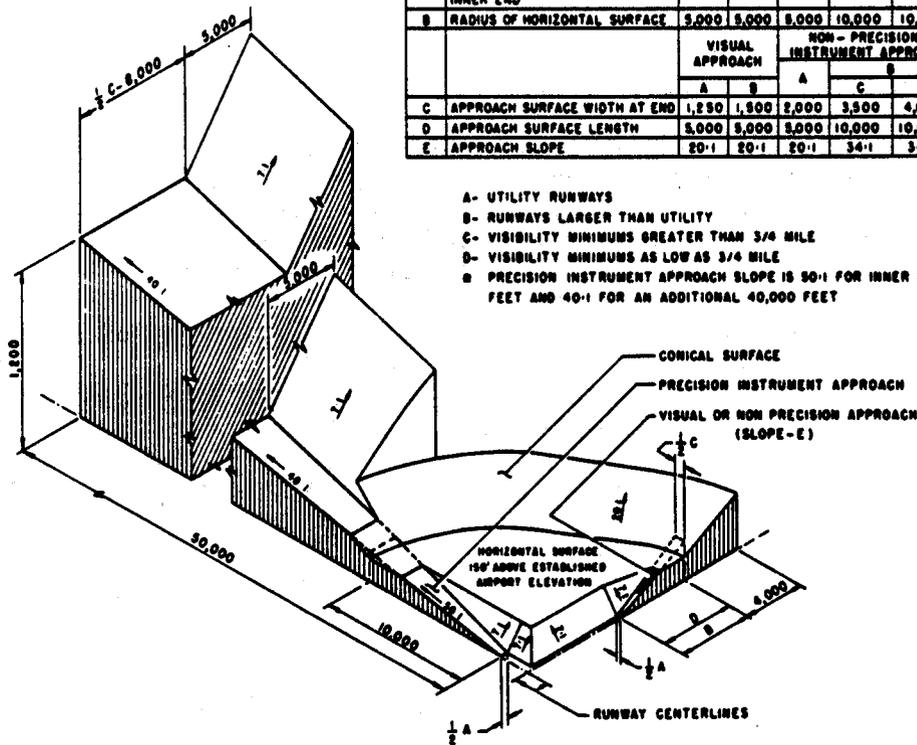
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

- A(V) Utility runway - visual approach only
- A(NP) Utility runway - nonprecision instrument approach
- B(V) Nonutility runway - visual approach only
- C Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
- D Nonutility runway- nonprecision instrument approach with visibility minimums as low as 3/4 mile
- PIR Precision instrument runway
- SUPLC Supplemental C underlying a B(V)

FAR-77 imaginary surface dimensions are defined on page 2 of this report.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY		PRECISION INSTRUMENT RUNWAY	
		A	B	A	C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	300	300	300	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH		PRECISION INSTRUMENT APPROACH	
		A	B	A	C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	15,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	0
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	0



- A- UTILITY RUNWAYS
- B- RUNWAYS LARGER THAN UTILITY
- C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
- D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
- E- PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET

ISOMETRIC VIEW OF SECTION A-A

**FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES**

EXPLANATION OF FOOTNOTES

- 1 Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary areas of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.
- 2 For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed).
- 3 Elevation at approach end of reference runway/touchdown zone elevation
- 4 Latitude and longitude at approach end of reference runway
- 5 Geodetic azimuth of reference runway reckoned from north
- 6 Elevation at reference runway displaced threshold/touchdown zone elevation
- 7 Latitude and longitude at reference runway displace threshold
- 8 Accuracy codes:
- | Horizontal | Vertical |
|------------|----------|
| 1 = 20 | A = 2 |
| 2 = 40 | B = 5 |
| | C = 20 |
- 9 Elevation above mean sea level (MSL) at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.
- 10 Height above ground level (AGL). AGL's are provided only for manmade objects appearing on the OC and equal to or greater than 200 feet AGL. AGL accuracy is 10 feet.
- 11 HAA - Height above airport
 HAR - Height above approach end of reference runway
 HAT - Height above reference runway touchdown zone elevation
- 12 DEND - Distance along reference runway centerline from point nearest to object (perpendicular) to approach end of runway
 DTHR - Distance along reference runway centerline from point nearest to object (perpendicular) to displace threshold
 DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft
- A negative value for DEND or DTHR indicates that object is in primary on roll-out side of zero distance point.
- 13 PTNR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

OC0016

AIRPORT ELEVATION 3929

12 C 3928/3928 420335.997 -1024906.936 1341816.
OBJECT LAT LONG A EL AGL HAR HAT HAA HAA DEND DTHR DCLN PNTR

*** NO OBSTRUCTIONS ***

30 C 3923/3925 420232.500 -1024739.671 3141914.
OBJECT LAT LONG A EL AGL HAR HAT HAA HAA DEND DTHR DCLN PNTR

*** NO OBSTRUCTIONS ***

17 SUPLC 3923/3923 420333.877 -1024742.368 1791917.
OBJECT LAT LONG A EL AGL HAR HAT HAA HAA DEND DTHR DCLN PNTR

*** NO OBSTRUCTIONS ***

0C0016

AIRPORT ELEVATION 3929

35 SUPLC 3923/3923 420231.543 -1024741.378 3591918.

OBJECT LAT LONG A EL AGL HAR HAT HAA DEND DTHR DCLN PNTR

*** NO OBSTRUCTIONS ***

8 SUPLC 3929/3929 420331.212 -1024912.481 891831.

OBJECT LAT LONG A EL AGL HAR HAT HAA DEND DTHR DCLN PNTR
ROAD (N) 420330.77 -1024940.53 1A 3943 14 14 14 2115 19R -42

26 SUPLC 3923/3925 420331.960 -1024748.429 2691927.

OBJECT LAT LONG A EL AGL HAR HAT HAA DEND DTHR DCLN PNTR

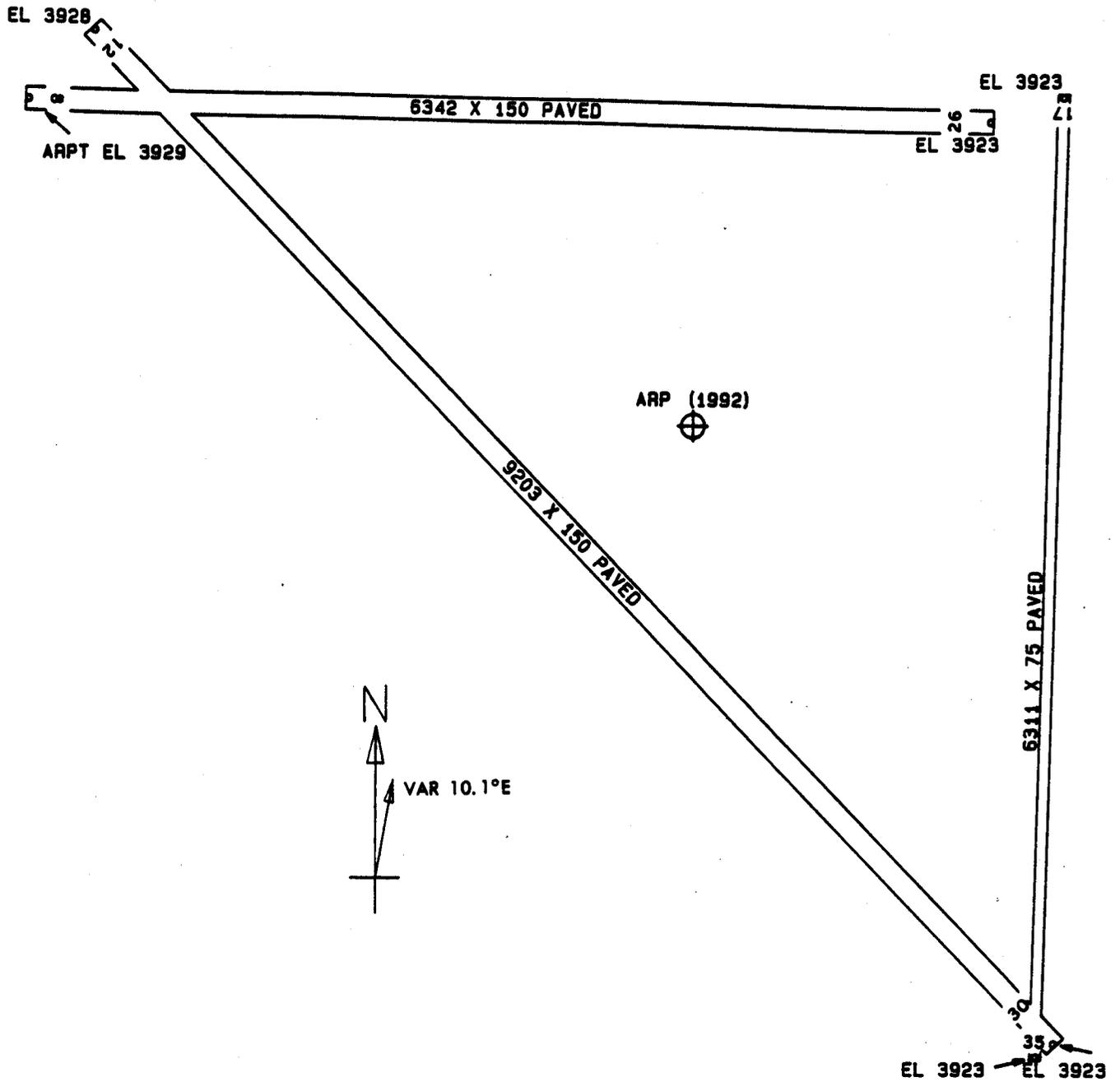
*** NO OBSTRUCTIONS ***

DC0016

AIRPORT ELEVATION 3929

ARP 420311.739 -1024813.412

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL ON VOR/DME	420320.27	-1024815.99	1A	3951		22	33711	884
OL ON LTD WSK	420327.35	-1024837.04	1A	3948		19	30127	2382
ROD ON APBN	420342.93	-1024827.62	1A	3975		46	33108	3334
CHY	420344.48	-1024900.29	1A	4001		72	30302	4845
OL ON TANK	420419.13	-1024828.48	1A	4056		127	34026	6913
GROUND	420214.14	-1024534.07	1B	4112		183	10545	13358



TOUCHDOWN ZONE RUNWAY ELEVATION	
12	3928
30	3925
17	3923
35	3923
8	3929
26	3925

ALLIANCE MUNICIPAL AIRPORT
 ALLIANCE, NEBRASKA
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)