

OBSTRUCTION DATA SHEET

ODS 684
RENNER FIELD (GOODLAND MUNICIPAL) AIRPORT
GOODLAND, KANSAS

DIGITIZED FROM

OC 684
SURVEYED AUGUST 1993
6TH EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29



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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.

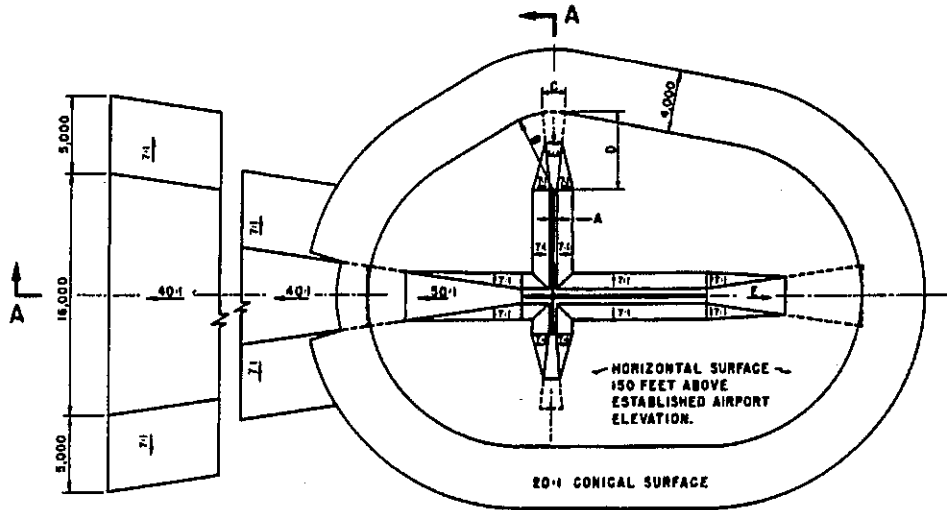
ODS information is arranged as follows:

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.

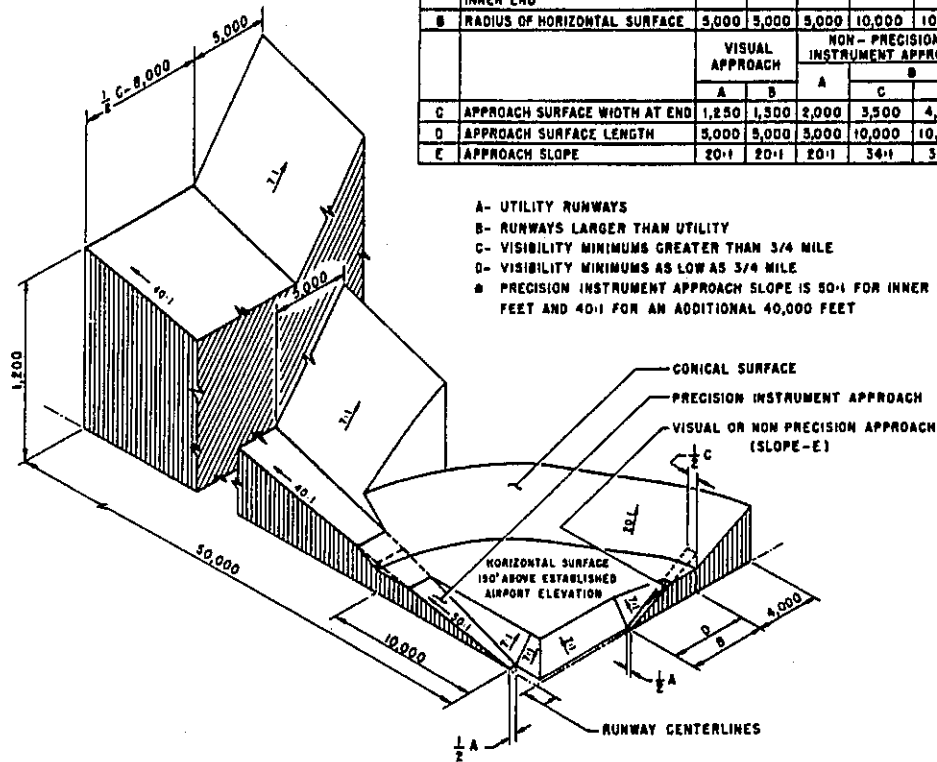
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

- 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	B		
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	16,000
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*



- 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
- * 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

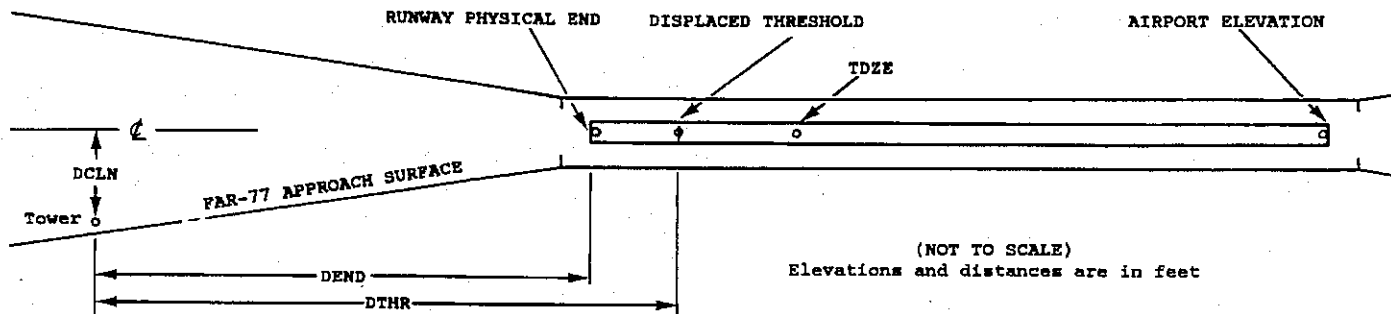
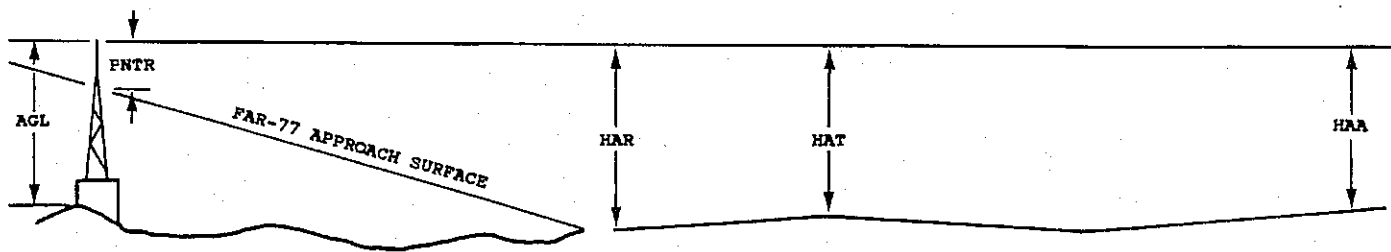
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

1	2	3	4	4	5	6	7	7	8	9	10	11	11	11	12	12	12	13
X	X	XXXX/XXXX	XXXXXX.XXX	XXXXXX.XXX	XXXXXX	XXXX/XXXX	XXXXXX.XXX	XXXXXX.XXX	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
XXXXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXXX	XXXXXX	XXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXX
XXXXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXXX	XXXXXX	XXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXX



(NOT TO SCALE)
Elevations and distances are in feet

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 displaced threshold
- 8 Accuracy codes: Horizontal (Ft.) Vertical (Ft.)
 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 displaced 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 PNTR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

OC0684

AIRPORT ELEVATION 3656

12 C 3644/3646 392228.997 -1014218.276 1342151.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GS	392201.77	-1014135.14	1A	3685		41	39	29	-4347		400L	38
BUSH	392203.64	-1014139.39	1A	3651		7	5	-5	-3977		301L	5
OL ON LTD WSK	392220.47	-1014212.20	1A	3669		25	23	13	-944		283R	25
TREE	392224.73	-1014220.66	1A	3668		24	22	12	-168		439R	24
TREE	392228.36	-1014221.82	1A	3658		14	12	2	154		241R	14
TREE	392227.73	-1014223.73	1A	3659		15	13	3	217		391R	14
FENCE	392233.04	-1014218.42	1A	3648		4	2	-8	294		284L	1
LT ON BLDG	392235.33	-1014218.03	1A	3650		6	4	-6	434		472L	-1
TREE	392230.66	-1014226.16	1A	3658		14	12	2	560		312R	3
TREE	392236.33	-1014221.82	1A	3657		13	11	1	717		336L	-3
TREE	392232.87	-1014231.75	1A	3676		32	30	20	1030		460R	7
OL ON DME	392241.01	-1014229.75	1A	3662		18	16	6	1494		239L	-20
OL ON LOC	392239.36	-1014231.93	1A	3650		6	4	-6	1499		OR	-33

30 PIR 3652/3652 392150.998 -1014128.229 3142222.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	392228.36	-1014221.82	1A	3658		6	6	2	-5652		241L	14
TREE	392224.73	-1014220.66	1A	3668		16	16	12	-5330		439L	24
OL ON LTD WSK	392220.47	-1014212.20	1A	3669		17	17	13	-4554		283L	25
BUSH	392203.64	-1014139.39	1A	3651		-1	-1	-5	-1521		301R	5
OL ON GS	392201.77	-1014135.14	1A	3685		33	33	29	-1150		400R	38
ROAD(N)	392151.32	-1014118.75	1A	3665		13	13	9	509		544R	7
ELEC EQUIP	392144.50	-1014126.90	1A	3659		7	7	3	534		397L	0
BUSH	392139.36	-1014122.94	1A	3664		12	12	8	1120		551L	-7

17 NUL 0/ 0 392235.584 -1014201.374 1794653.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
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*** NO OBSTRUCTIONS ***

OC0684

AIRPORT ELEVATION 3656

35 NUL 0/ 0 392217.796 -1014201.287 3594653.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
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*** N O B S T R U C T I O N S ***

5 AV 3656/3656 392206.663 -1014218.593 630345.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
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FENCE	392222.28	-1014136.24	1A	3640		-16	-16	-16	-3681		98R	4
ROAD(N)	392205.07	-1014227.31	1A	3679		23	23	23	684		167L	-1
POLE	392156.07	-1014238.98	1A	3702		46	46	46	1913		230R	-40

23 AV 3636/3654 392222.334 -1014138.854 2430411.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
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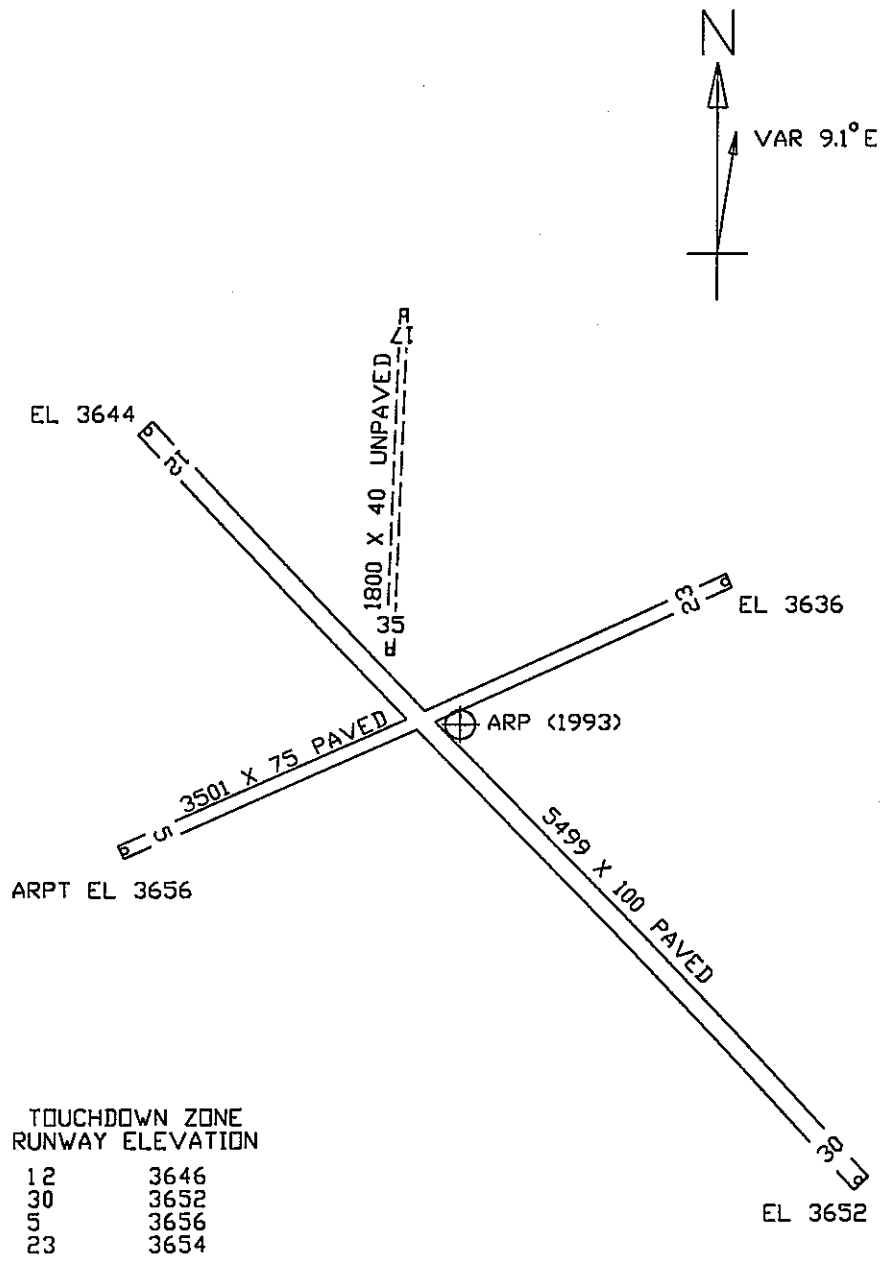
FENCE	392222.28	-1014136.24	1A	3640		4	-14	-16	181		98L	4
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OC0684

AIRPORT ELEVATION 3656

ARP 392214.239 -1014156.371

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
ROD ON OL AMOM	392205.41	-1014208.24	1A	3689		33	21706	1291
ROD ON DOME	392200.62	-1014201.37	1A	3746		90	18648	1433
LIGHT	392216.05	-1014214.85	1A	3689		33	26805	1462
FENCE	392223.01	-1014141.09	1A	3642		-14	4424	1492
ANT	392217.83	-1014217.62	1A	3695		39	27310	1708
TREE	392157.59	-1014147.71	1A	3684		28	14854	1817
ANT	392221.38	-1014219.07	1A	3695		39	28258	1923
ROD ON APBN	392223.53	-1014226.25	1A	3703		47	28244	2528
RAIL ON SILO	392229.98	-1014229.89	1A	3675		19	29205	3077
BUSH	392154.53	-1014123.71	1A	3662		6	11846	3249
TREE	392241.10	-1014222.55	1A	3674		18	31348	3408
OL VORTAC	392316.30	-1014132.29	1A	3689		33	739	6558
ANT ON OL TANK	392114.89	-1014259.87	1A	3841		185	21037	7805
ANT	392101.64	-1014233.60	1A	3825		169	19236	7906
TANK	392059.64	-1014249.50	1A	3795		139	19950	8625
ANT ON OL TANK	392030.13	-1014216.12	1A	3848		192	17916	10647
ANT ON OL ELEVATOR	392027.49	-1014235.09	1A	3883		227	18637	11221
ANT ON OL ELEVATOR	392029.00	-1014248.08	1A	3859		203	19147	11396



RENNER FIELD (GOODLAND MUNICIPAL) AIRPORT
 GOODLAND, KANSAS
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)