

OBSTRUCTION DATA SHEET

ODS 687
RAWLINS MUNICIPAL AIRPORT
RAWLINS, WYOMING

DIGITIZED FROM

OC 687
SURVEYED JULY 1987
2ND EDITION



PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

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 Nr. 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 OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

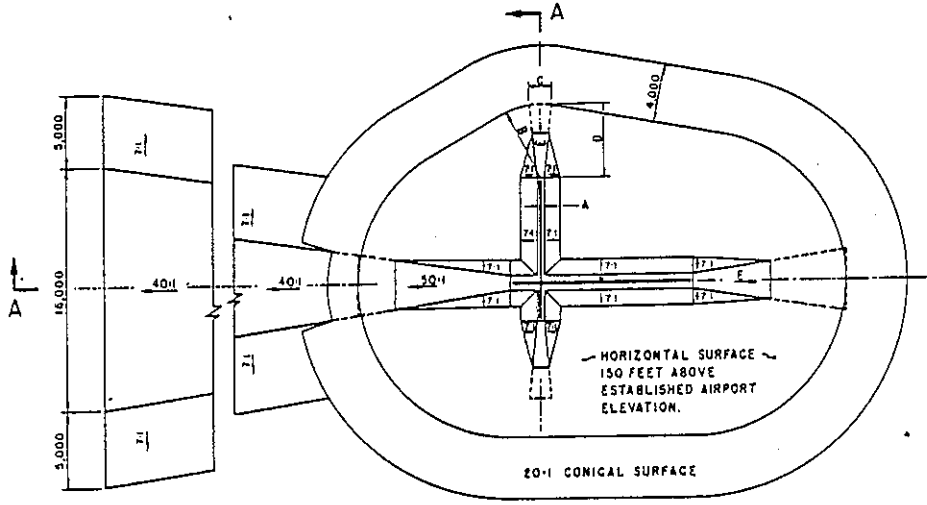
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)
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 (see footnote 2 on page 3):

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)

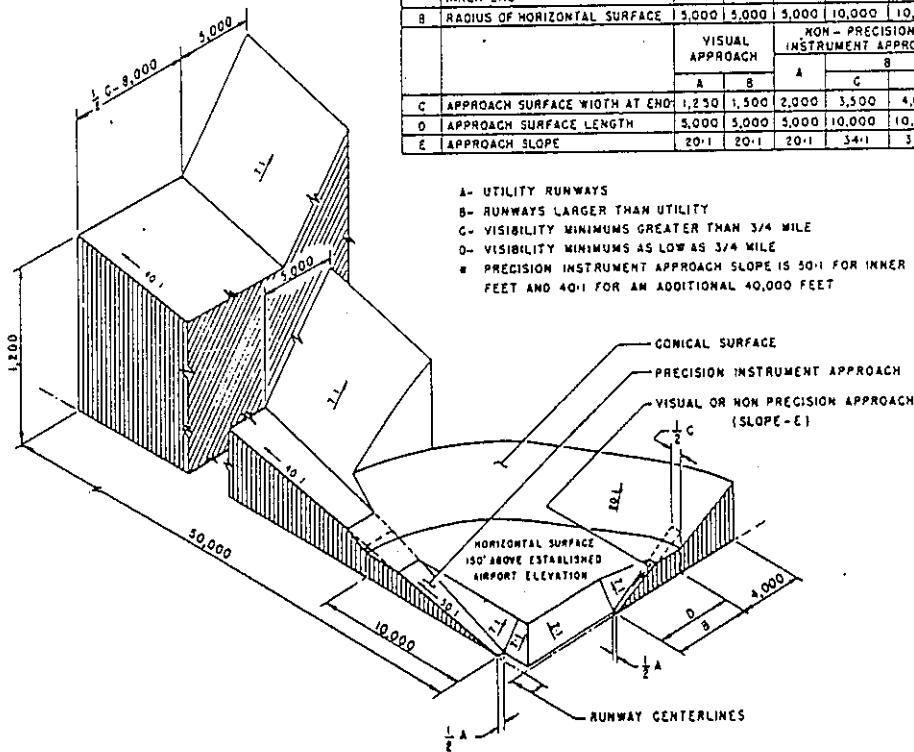
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B	C	
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	C	
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	A
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	A

- 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 30:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

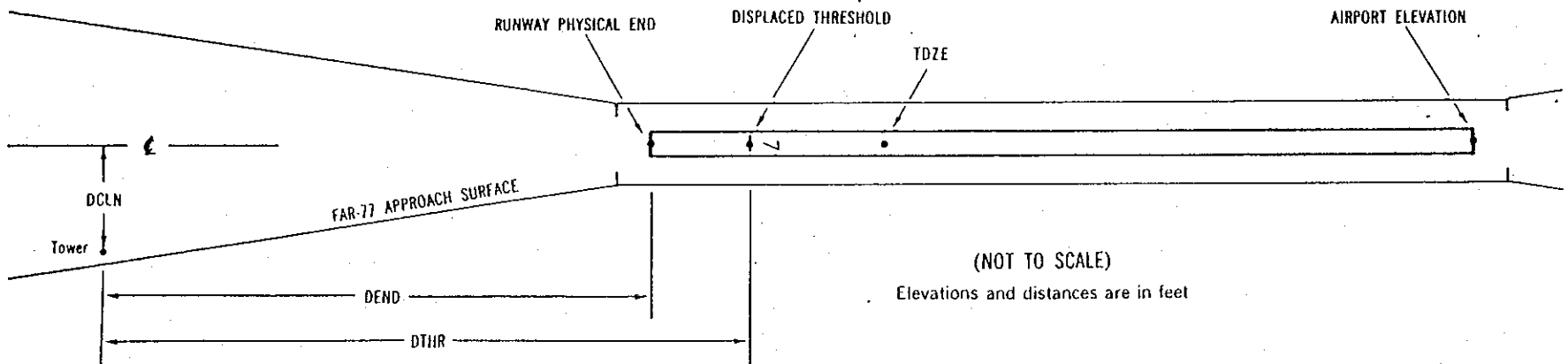
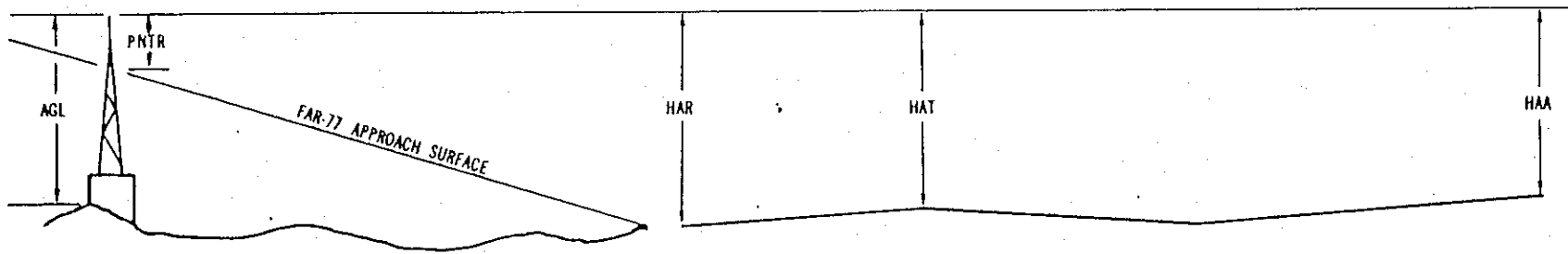
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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



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 area 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 Reference runway approach physical end elevation/touchdown zone elevation
- 4 Latitude and longitude of reference runway approach physical end
- 5 Reference runway geodetic azimuth reckoned clockwise from south
- 6 Reference runway displaced threshold elevation/touchdown zone elevation
- 7 Latitude and longitude of reference runway displaced threshold
- 8 Accuracy Code:
- | | Horizontal | Vertical |
|---|------------|----------|
| 1 | = 20 | A = 2 |
| 2 | = 40 | B = 5 |
| | | C = 20 |
- 9 Mean Sea Level (MSL) elevation 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). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ± 10 feet.
- 11 HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation
- 12 DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway 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 object is in primary area on roll-out side of zero distance point.
- 13 PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC0687

AIRPORT ELEVATION 6813

4 SUPLC 6741/6755 414800.411N 1071234.476W 2340249

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	414844.16	1071119.35	1A	6834		93	79	21	-7206		245L	21
GROUND	414840.57	1071116.90	1A	6819		78	64	6	-7143		158R	6
GROUND	414842.05	1071123.57	1A	6823		82	68	10	-6821		260L	14
GROUND	414837.29	1071119.03	1A	6815		74	60	2	-6818		332R	6
GROUND	414840.12	1071126.33	1A	6815		74	60	2	-6538		224L	11
GROUND	414833.87	1071127.21	1A	6794		53	39	-19	-6113		249R	-1
OL ON WINDSOCK	414821.71	1071144.90	1A	6786		45	31	-27	-4305		459R	14
GROUND	414827.56	1071152.44	1A	6774		33	19	-39	-4191		355L	3
OL ON VOR/DME	414817.42	1071213.33	1A	6772		31	17	-41	-2307		453L	25
OL ON WINDSOCK	414801.35	1071224.60	1A	6764		23	9	-49	-662		362R	22
ROAD (N)	414803.44	1071239.98	1A	6751		10	-4	-62	158		493L	10
POLE	414803.08	1071240.55	1A	6772		31	17	-41	214		489L	31
FENCE	414758.93	1071236.87	1A	6741		0	-14	-72	235		15R	-1
POLE	414801.00	1071240.58	1A	6763		22	8	-50	339		320L	18
GRAIN ELEVATOR	414722.56	1071328.16	1B	6839		98	84	26	5541		713R	-59

OC0687

AIRPORT ELEVATION 6813

22 FIR 6813/6813 414841.042N 1071119.587W 0540339

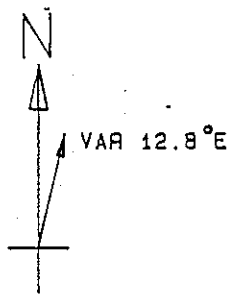
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
POLE	414803.08	1071240.55	1A	6772		-41	-41	-41	-7220		489R	31
ROAD (N)	414803.44	1071239.98	1A	6751		-62	-62	-62	-7164		493R	10
OL ON WINDSOCK	414801.35	1071224.60	1A	6764		-49	-49	-49	-6344		362L	22
OL ON VOR/DME	414817.42	1071213.33	1A	6772		-41	-41	-41	-4699		453R	25
GROUND	414827.56	1071152.44	1A	6774		-39	-39	-39	-2815		355R	3
OL ON WINDSOCK	414821.71	1071144.90	1A	6786		-27	-27	-27	-2701		459L	14
GROUND	414833.87	1071127.21	1A	6794		-19	-19	-19	-894		249L	-1
GROUND	414840.12	1071126.33	1A	6815		2	2	2	-468		224R	11
GROUND	414837.29	1071119.03	1A	6815		2	2	2	-188		332L	6
GROUND	414842.05	1071123.57	1A	6823		10	10	10	-185		260R	14
GROUND	414840.57	1071116.90	1A	6819		6	6	6	137		158L	6
GROUND	414844.16	1071119.35	1A	6834		21	21	21	200		245R	21
GROUND	414839.07	1071113.83	1A	6827		14	14	14	236		417L	13
GROUND	414845.87	1071116.34	1A	6838		25	25	25	486		251R	19
FENCE	414841.08	1071105.96	1A	6845		32	32	32	838		602L	19
FENCE	414851.50	1071113.79	1A	6866		53	53	53	977		599R	37
GROUND	414852.52	1071111.06	1A	6867		54	54	54	1204		561R	34
POLE	414849.04	1071055.65	1A	6851		38	38	38	1943		408L	3
GROUND	414900.60	1071058.10	1A	6871		58	58	58	2479		648R	12
GROUND	414855.96	1071052.38	1A	6863		50	50	50	2554		13R	3
GROUND	414910.40	1071043.21	1A	6914		101	101	101	3974		790R	26
GROUND	414918.05	1071035.66	1A	6924		111	111	111	4892		1081R	17
GROUND	414907.29	1071024.15	1A	6913		100	100	100	4958		313L	5
GROUND	414924.14	1071026.06	1A	6934		121	121	121	5842		1153R	8
GROUND	414941.36	1070911.76	1A	7124		311	311	311	11420		735L	81
GROUND	414957.34	1070910.99	1A	7164		351	351	351	12416		540R	96
GROUND	414945.46	1070856.24	1A	7102		289	289	289	12616		1088L	29
GROUND	415017.62	1070913.94	1A	7210		397	397	397	13440		2334R	116

DC0687

AIRPORT ELEVATION 6813

ARF 414820.270N 1071157.571W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ON APT BCN	414755.59	1071223.17	1A	6790		-23	205 1	3163
POLE ON HANGAR	414757.44	1071227.42	1A	6776		-37	211 34	3233
BUILDING	414805.57	1071237.54	1A	6762		-51	231 2	3373
ANTENNA ON TANK	414753.09	1071231.67	1A	6781		-32	210 24	3773
FENCE	414847.11	1071121.86	1A	6844		31	32 4	3833
POLE	414938.51	1071209.86	1B	7002		189	340 30	7974
GROUND	414857.84	1071351.03	1B	6980		167	281 5	9397
WATER TANK	414838.10	1071405.26	1B	7089		276	267 47	9837
POLE	414957.77	1071146.09	1B	6976		163	352 14	9907
GROUND	414850.46	1071407.37	1B	7000		187	274 29	10294
GROUND	414957.50	1071106.97	1A	6998		185	8 28	10561
GROUND	414823.25	1071421.71	1B	7158		345	258 48	10920
WATER TANK	414737.02	1071429.82	1B	6930		117	236 26	12335
GROUND	414757.08	1071439.15	1B	7105		292	246 21	12461
GROUND	414846.76	1070916.69	1B	6989		176	64 46	12476
GROUND	415009.54	1071032.19	1B	7012		199	17 30	12811
GROUND	414900.39	1070914.22	1B	7000		187	59 1	13020
GROUND	414916.30	1070914.14	1B	7055		242	52 34	13613
POLE	414822.41	1071512.20	2C	7621		808	258 4	14742
POLE	414708.37	1071458.92	2C	7005		192	229 18	15546
GROUND	414741.31	1071519.18	2C	7113		300	242 44	15771
OL ANTENNA	414616.04	1071415.55	2C	7362		549	206 57	16351
GROUND	414806.68	1071536.00	2C	7490		677	252 28	16601
MCWV REFLECTOR	414734.96	1071532.34	2C	7221		408	241 29	16902
POLE	414613.66	1071428.56	2C	7238		425	208 58	17178
GROUND	415041.85	1070946.50	2C	7195		382	21 53	17431
GROUND	415023.69	1070916.40	2C	7231		418	31 31	17464



ARPT ELEV. 6813 FT.

7008 X 100 PAVED

ARP (1987)

EL. 6741

TOUCHDOWN ZONE	
RUNWAY ELEVATION	
4	6755
22	6813

RAWLINS MUNICIPAL AIRPORT
RAWLINS, WYOMING
(NOT TO SCALE)