OBSTRUCTION DATA SHEET

ODS 5677
FORT COLLINS - LOVELAND MUNICIPAL AIRPORT
FORT COLLINS - LOVELAND, COLORADO

DIGITIZED FROM

OC 5677
SURVEYED AUGUST 1991
4TH EDITION



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FOR THE FEDERAL AVIATION ADMINISTRATION

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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 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:

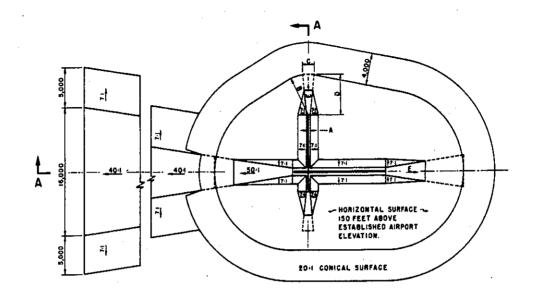
- 1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both 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.

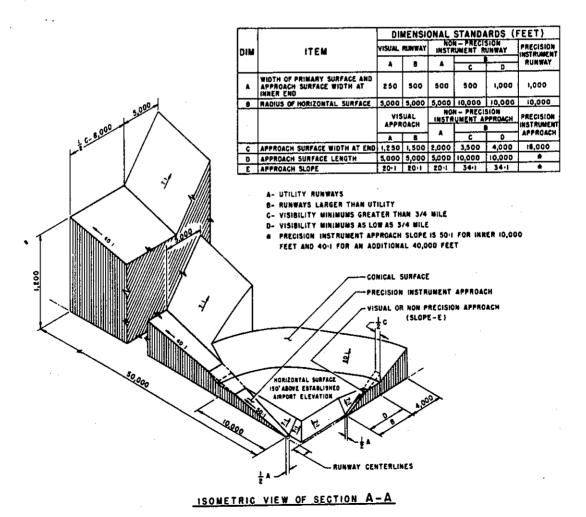
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

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.

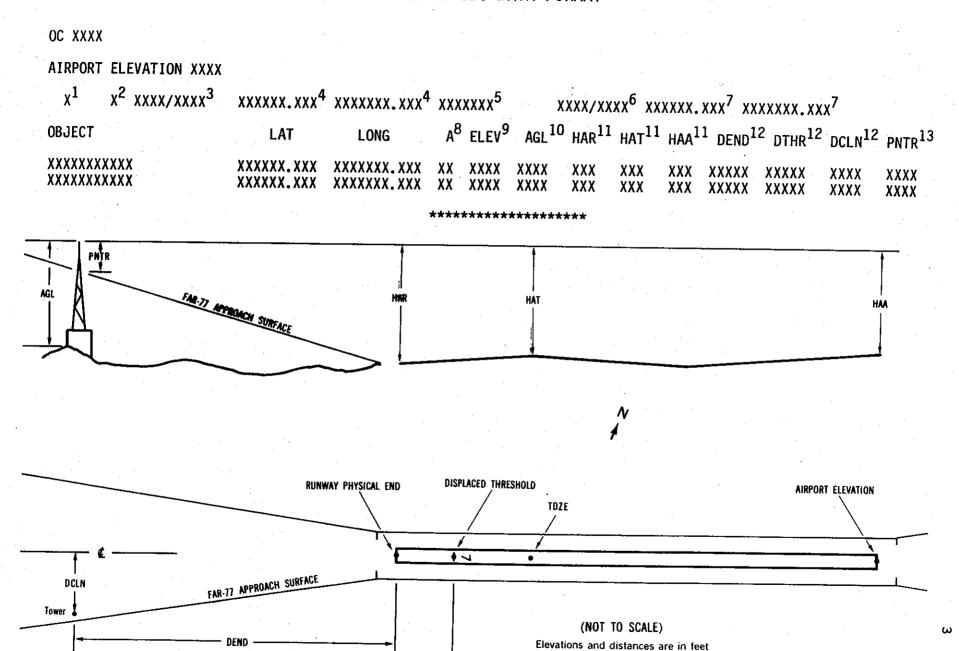
Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.





FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT



- 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
- 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.
- 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.
- HAA Height above airport
 HAR Height above reference runway approach physical end
 HAT Height above reference runway touchdown zone elevation
- 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).

OC5677

AIRPORT ELEVATION 5016

6 A(V) 4990/ 402710.1	.138N 1050039.741W 2503655		5									
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND GROUND GROUND GROUND	402716.72	1050013. 1050018.	23 1A 14 1A	4988 4991 4987 4988		-2 1 -3 -2		-28 -25 -29 -28	-2326 -2141 -1797 -1775		115R 90R 74L 76R	1 4 1 2
24 A(V) 4987/ 402717.5		L2.011W	070371									
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND GROUND GROUND GROUND	402715.25 402716.72 402716.32 402716.69	1050018. 1050013.	14 1A 23 1A	4988 4987 4991 4988		1 0 4 1		-28 -29 -25 -28	-497 -476 -131 54		76L 74R 90L 115L	2 1 4 1
15 C 4973/4985 402744.	272N 1050	l 0.776W	34026	00								
OBJECT	LAT	LONG	. A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND OL ON GLIDE SLOPE OL ON LIGHTED WINDSOCK POLE TREE ANTENNA ON BUILDING OL ON LOCALIZER POLE POLE TREE	402626.37 402633.52 402647.45 402750.24 402754.92 402753.18 402755.77 402755.94 402758.82	1050032. 1050040. 1050110. 1050058. 1050108. 1050104. 1050107.	67 1A 98 1A 97 1A 65 1A 52 1A 32 1A 23 1A 98 1A	5018 5043 5023 4995 5025 4977 4974 4989 4990 5002		45 70 50 22 52 4 1 16 17 29	33 58 38 10 40 -8 -11 4 5	2 27 7 -21 9 -39 -42 -27 -26 -14	-8551 -7474 -5930 832 960 1050 1053 1186 1299 1654		519L 350R 484R 540R 516L 263R 1L 138L 129R 260R	2 31 18 3 30 -21 -24 -13 -15

0C5677

AIRPORT ELEVATION 5016

OL ON WATER SPHERE

33 PIR 5016/5016 402625.144N 1050023.969W 1602624

402608.68

OBJECT	LAT	LONG A	ELEV	AGL	HAR	TAH	HAA	DEND	DTHR	DCLN	PNTR
OL ON LIGHTED WINDSOC	K 402647.45	1050040.98 1A	5023		7	7	7	-2568		484L	18
OL ON GLIDE SLOPE	402633.52	1050032.67 1A	5043		27	27	27	-1024		350L	31
GROUND	402626.37	1050017.41 1A	5018		2	2	2	53		519R	2
ROD ON BUILDING	402614.24	1050024.74 1A	5021		5	5	5	1020		425L	-11
ARP	402706.640N	1050038.889W									
OBJECT	LAT	LONG	A	EI	EV	AGL	HAA	MAG BEARING DISTAN		DISTANC	E
WINDSOCK	402659.17	1050031.3	3 1A	. 50	12		-4	131	6	956	
FLOODLIGHT POLE	402659.04	1050026.0			47		31	116	_	1256	
OL ANEMOMETER	402655.06				30.		14	138		1358	
ROD OL AIRPORT BEACON	402635.23	1050013.8			89		73	137		3723	
TREE	402744.90				25		9	338		3937	
POLE	402737.32	1050110.9			23		7		15	3970	
ANTENNA ON BUILDING	402740.57	1050109.5			99		-17	314	9	4174	
POLE	402740.84	1050111.0	2 1.A		14		-2	313	8	4260	
POLE	402747.45	1050110.9			94		-22		48	4818	
TREE	402754.03	1050057.0	5 1A	50	19		. 3	332		4997	
OF ON MANIET CINCIPLE	400000 00	1045005 0									

1B

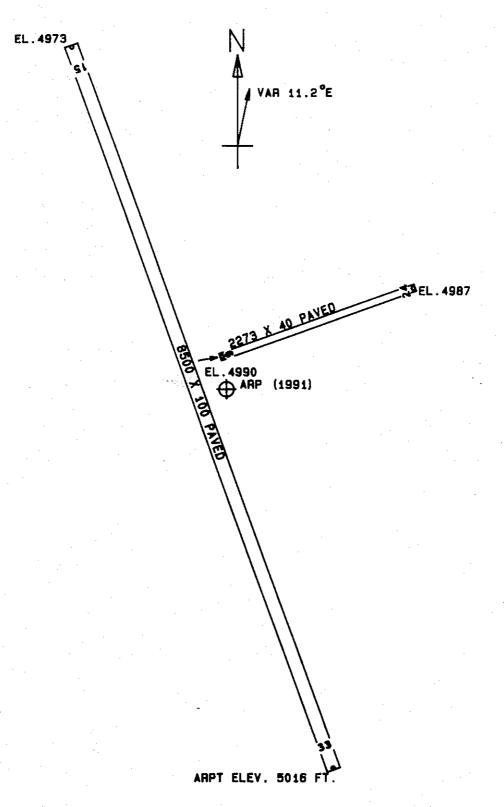
5212

196

108 20

11893

1045825.07



TOUCHDOWN ZONE RUNWAY ELEVATION

4985 5016

FORT COLLINS - LOVELAND MUNICIPAL AIRPORT
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(NOT TO SCALE)