

AERONAUTICAL DATA SHEET
 NATIONAL GEODETIC SURVEY

DATE GENERATED: 07/02/2003

PROJECT NUMBER: 48
 ARPT IDENTIFIER: BIL
 ARPT NAME: BILLINGS LOGAN INTERNATIONAL AIRPORT
 CITY: BILLINGS
 STATE: MONTANA
 ARPT ELEVATION: 3652.0
 AIRPORT REFERENCE POINT

SITE NUMBER: 12265.A
 SURVEY DATE: 11/02/2002
 HORIZONTAL DATUM: NAD83
 VERTICAL DATUM: NAVD88
 ATCT FLOOR ELEV: 3638.0
 DECLINATION: 13.0E

DISTANCE FROM RWY END: 10R+0
 LATITUDE: 454827.6
 LONGITUDE: -1083234.4

RUNWAY INFORMATION

RUNWAY: 7/25 LENGTH: 5501 WIDTH: 75 SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA
 GEODETIC

DISPLACED THRESHOLD DATA

RWY	LATITUDE	LONGITUDE	ELEV	AZ (N)	TDZE	LENGTH	LATITUDE	LONGITUDE	ELEV
7	454827.6274	-1083330.2256	3636.3	835825	3636.3				
25	454833.3197	-1083213.0247	3533.8	2635921	3586.3				

PROFILE DATA

DISTANCES FROM APPROACH END 7

DISTANCES FROM APPROACH END 25

DISTANCE	ELEV
0	3636.3
207	3632.3
2566	3585.1
3006	3578.2
3812	3562.4
4404	3553.6
4734	3549.0
5501	3533.8

DISTANCE	ELEV
0	3533.8
767	3549.0
1097	3553.6
1689	3562.4
2495	3578.2
2935	3585.1
5294	3632.3
5501	3636.3

RUNWAY: 10L/28R LENGTH: 10518 WIDTH: 150 SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA
GEODETIC

DISPLACED THRESHOLD DATA

RWY	LATITUDE	LONGITUDE	ELEV	AZ (N)	TDZE	LENGTH	LATITUDE	LONGITUDE	ELEV
10L	454845.8121	-1083317.3446	3584.4	1114235	3584.4				
28R	454807.3881	-1083059.4449	3488.2	2914413	3517.1				

PROFILE DATA

DISTANCES FROM APPROACH END 10L

DISTANCES FROM APPROACH END 28R

DISTANCE	ELEV
0	3584.4
3731	3553.6
5651	3536.9
9347	3497.3
10518	3488.2

DISTANCE	ELEV
0	3488.2
1171	3497.3
4867	3536.9
6787	3553.6
10518	3584.4

RUNWAY: 10R/28L LENGTH: 3801 WIDTH: 75 SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA
GEODETIC

DISPLACED THRESHOLD DATA

RWY	LATITUDE	LONGITUDE	ELEV	AZ (N)	TDZE	LENGTH	LATITUDE	LONGITUDE	ELEV
10R	454833.0659	-1083346.1482	3652.0	1113838	3652.0				
28L	454819.2267	-1083256.2928	3606.8	2913914	3641.2				

PROFILE DATA

DISTANCES FROM APPROACH END 10R

DISTANCES FROM APPROACH END 28L

DISTANCE	ELEV
0	3652.0
1435	3632.3
2668	3615.9
3801	3606.8

DISTANCE	ELEV
0	3606.8
1133	3615.9
2366	3632.3
3801	3652.0

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SURVEY DATE: 11/02/2002
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

NAVIGATIONAL AID INFORMATION

ELECTRONIC	LATITUDE	LONGITUDE	ELEV	OFFSET DISTANCE	ALONG CNTRLN DISTANCE
ASR (BIL)	454840.4444	-1083226.3942	3536.4		
ASR (BIL) (UNC)	454904.7676	-1083249.2274	3501.9		
DME (28R)	454852.6614	-1083330.4331	3595.2		
GS (10L)	454844.8729	-1083300.6294	3571.5		
GS (10L) PP	454841.6663	-1083302.4554	3575.5	350L	1135
GS (28R)	454813.1551	-1083110.2128	3488.0		
GS (28R) PP	454810.7697	-1083111.5724	3495.1	260R	925
LOC (10L)	454801.9349	-1083039.8827	3491.9		1492
LOC (28R)	454849.8373	-1083331.8084	3584.4		1103
LOM (10L)	455108.0162	-1084140.2222			38418
MM (10L)	454857.2906	-1083358.9619			3169
VORTAC (BIL)	454830.8239	-1083728.8095	3808.1		

VISUAL	LATITUDE	LONGITUDE
ALS (10L)		
APBN	454815.8170	-1083339.1870
PAPI (7)		
PAPI (10L)		
PAPI (25)		
REIL (25)		
REIL (28R)		
VASI (28R)		

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OBSTRUCTION INFORMATION

7 AV

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	454824.52	-1083347.93	1A	3672		36	36	20	1281		182R	-19

25 AV

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
*** N O B S T R U C T I O N S ***												

10L PIR

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GRD	454802.73	-1083101.76	1A	3498		-86	-86	-154	-10540		499R	9
OL ON WSK	454804.17	-1083108.86	1A	3532		-52	-52	-120	-10018		*550R	40
OL ON GS	454813.16	-1083110.21	1A	3511		-73	-73	-141	-9592		260L	15
GRD	454817.89	-1083148.75	1A	3530		-54	-54	-122	-6878		305R	6
GRD	454820.75	-1083201.88	1A	3543		-41	-41	-109	-5907		380R	8
GRD	454822.06	-1083211.24	1A	3552		-32	-32	-100	-5241		*503R	11
GRD	454824.48	-1083213.62	1A	3552		-32	-32	-100	-4994		337R	9
BUSH	454837.82	-1083230.76	1A	3556		-28	-28	-96	-3366		468L	-1
OL ON GS	454844.87	-1083300.63	1A	3623		39	39	-29	-1135		350L	48
OL WSK	454840.27	-1083312.56	1A	3603		19	19	-49	-522		397R	22
ELEC BOX	454850.65	-1083319.72	1A	3582		-2	-2	-70	338		393L	-5
GRD	454842.91	-1083330.00	1A	3599		15	15	-53	724		*605R	4
OL ON DME	454852.66	-1083330.43	1A	3599		15	15	-53	1118		302L	-4
GRD	454847.96	-1083345.64	1A	3618		34	34	-34	1943		539R	-2
TREE	454851.44	-1083421.22	2C	3671		87	87	19	4415		*1144R	2

OBSTRUCTION INFORMATION (CONTINUED)

ADSMT48

10L PIR (CONTINUED)

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	454859.78	-1083456.53	2C	3729		145	145	77	7052		1283R	7

28R PIR

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL WSK	454840.27	-1083312.56	1A	3603		115	86	-49	-9995		397L	22
OL ON GS	454844.87	-1083300.63	1A	3623		135	106	-29	-9382		350R	48
BUSH	454837.82	-1083230.76	1A	3556		68	39	-96	-7151		468R	-1
GRD	454824.48	-1083213.62	1A	3552		64	35	-100	-5523		337L	9
GRD	454822.06	-1083211.24	1A	3552		64	35	-100	-5276		*503L	11
GRD	454820.75	-1083201.88	1A	3543		55	26	-109	-4611		380L	8
GRD	454817.89	-1083148.75	1A	3530		42	13	-122	-3639		305L	6
OL ON GS	454813.16	-1083110.21	1A	3511		23	-6	-141	-925		260R	15
OL ON WSK	454804.17	-1083108.86	1A	3532		44	15	-120	-499		*550L	40
GRD	454802.73	-1083101.76	1A	3498		10	-19	-154	22		499L	9
GRD	454802.04	-1083059.18	1A	3498		10	-19	-154	218		496L	9
FENCE	454810.18	-1083053.76	1A	3483		-5	-34	-169	270		412R	-7
FENCE	454800.78	-1083056.12	1A	3511		23	-6	-141	467		535L	17
RD(N)	454759.97	-1083054.19	1A	3524		36	7	-128	625		560L	27
GRD	454800.95	-1083053.24	1A	3505		17	-12	-147	650		443L	7
RD(N)	454758.85	-1083045.09	1A	3523		35	6	-129	1265		427L	13
OL ON LOC	454801.93	-1083039.88	1A	3500		12	-17	-152	1492		0R	-14
ANT ON BLDG	454759.48	-1083041.04	1A	3516		28	-1	-136	1508		261L	1
ANT ON OL POLE	454755.22	-1082958.04	1A	3558		70	41	-94	4498		466R	-16

10R AV

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GRD	454841.41	-1083414.48	1A	3700		48	48	48	2177		45L	-51

OBSTRUCTION INFORMATION (CONTINUED)

ADSMT48

28L AV

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ANT ON BLDG	454811.89	-1083240.14	1A	3641		34	0	-11	1338		*269L	-23
ANT ON OL POLE	454807.72	-1083203.27	1A	3681		74	40	29	3922		303R	-112

ARP HCT

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE	PNTR
ANT ON RTR TWR	454823.80	-1083242.18	1A	3626	-26		22205		672	-26
ANT ON OL ASR	454840.44	-1083226.39	1A	3603	-49		1033		1420	0
ANT ON BLDG	454811.89	-1083240.14	1A	3641	-11		18120		1643	-27
GRD	454822.06	-1083211.24	1A	3552	-100		9553		1734	11
ANT ON HGR	454814.66	-1083256.33	1A	3646	-6		21651		2033	-4
ANT ON OL ATCT	454813.55	-1083212.58	1A	3661	9		11938		2102	3
LT	454814.83	-1083301.90	1A	3657	5		22325		2339	-13
ANT ON BLDG	454815.22	-1083305.78	1A	3660	8		22734		2553	-23
SIGN	454812.04	-1083152.26	1A	3578	-74		10449		3377	-10
ANT ON OL ASR	454904.77	-1083249.23	1A	3621	-31		33125		3909	-181
GRD	454841.49	-1083328.10	1A	3611	-41		27718		4056	0
GRD	454842.91	-1083330.00	1A	3599	-53		27829		4233	0
APBN	454815.82	-1083339.19	1A	3762	110		24225		4743	-37
GRD	454804.74	-1083111.88	1A	3510	-142		9836		6289	5
OL ON WSK	454804.17	-1083108.86	1A	3532	-120		9822		6509	33
FENCE	454801.69	-1083102.69	1A	3516	-136		9859		7009	11
TREE	454851.44	-1083421.22	2C	3671	19		27442		7944	1
ROD ON MCWV TWR	454836.65	-1083550.33	2C	3851	199		26048		13912	14
ANT ON MCWV TWR	454814.30	-1083553.66	2C	3846	194		25134		14183	-25

ADDITIONAL INFORMATION:

OBSTRUCTIONS WITH AN ACCURACY CODE OF 2C WERE PHOTOGRAMMETRICALLY DETERMINED. POSITIONS ARE CURRENT AS OF DATE OF PHOTOGRAPHY (1-AUGUST-2001).

AERONAUTICAL DATA IS AVAILABLE ON THE INTERNET AT [HTTP://WWW.NGS.NOAA.GOV](http://www.ngs.noaa.gov).

ADDITIONAL INFORMATION ON DATA STANDARDS CAN BE FOUND IN FAA NO. 405, "STANDARDS FOR AERONAUTICAL SURVEYS AND RELATED PRODUCTS".

AN ASTERISK "*" INDICATES THAT THIS OBJECT IS OUTSIDE, BUT WITHIN 50 FEET, OF THE OBSTRUCTION IDENTIFICATION SURFACE.