NGS FORM-292

AERONAUTICAL DATA SHEET
NATIONAL GEODETIC SURVEY

DATE GENERATED: 07/27/2005

PROJECT NUMBER: 294
ARPT IDENTIFIER: OAK — SITE NUMBER: 01971.A
ARPT NAME: METROPOLITAN OAKLAND INTERNATIONAL AIRPORT — SURVEY DATE: 03/08/2005
CITY: OAKLAND — HORIZONTAL DATUM: NAD83
STATE: CALIFORNIA — VERTICAL DATUM: NAVD88
ARPT ELEVATION: 9.2 — DISTANCE FROM RWY END: 9R+349 — ATCT FLOOR ELEV: 130.0
AIRPORT REFERENCE POINT — LATITUDE: 374316.6 — LONGITUDE: -1221314.6 — DECLINATION: 14.8E

RUNWAY INFORMATION

RUNWAY: 9L/27R — LENGTH: 5454 — WIDTH: 150 — SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA

RWY	GEODETIC LATITUDE	GEODETIC LONGITUDE	ELEV	AZ (N)	TDZE
9L	374349.6633	-1221319.7944	5.6	1120950	6.3
27R	374329.3170	-1221216.9264	5.8	2921028	6.7

DISPLACED THRESHOLD DATA

LENGTH	LATITUDE	LONGITUDE	ELEV

PROFILE DATA

DISTANCES FROM APPROACH END 9L

DISTANCE	ELEV
0	5.6
5454	5.8

DISTANCES FROM APPROACH END 27R

DISTANCE	ELEV
0	5.8
5454	5.6

RUNWAY: 9R/27L — LENGTH: 6212 — WIDTH: 150 — SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA

RWY	GEODETIC LATITUDE	GEODETIC LONGITUDE	ELEV	AZ (N)	TDZE
9R	374343.3362	-1221333.2353	8.1	1120917	9.2
27L	374320.1708	-1221221.6288	8.3	2921001	8.8

DISPLACED THRESHOLD DATA

LENGTH	LATITUDE	LONGITUDE	ELEV

DISTANCES FROM APPROACH END 9R

DISTANCE	ELEV
0	8.1
349	9.2
6212	8.3

DISTANCES FROM APPROACH END 27L

DISTANCE	ELEV
0	8.3
5863	9.2
6212	8.1

RUNWAY: 11/29 LENGTH: 10000 WIDTH: 150 SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA

RWY	GEODETIC LATITUDE	GEODETIC LONGITUDE	ELEV	AZ (N)	TDZE
11	374308.9066	-1221426.6395	7.8	1295930	8.6
29	374205.3600	-1221251.3122	8.7	3100028	8.8

DISPLACED THRESHOLD DATA

RWY	LENGTH	LATITUDE	LONGITUDE	ELEV
11				
29				

PROFILE DATA

DISTANCES FROM APPROACH END 11

DISTANCE	ELEV
0	7.8
10000	8.7

DISTANCES FROM APPROACH END 29

DISTANCE	ELEV
0	8.7
10000	7.8

RUNWAY: 15/33 LENGTH: 3372 WIDTH: 75 SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA

RWY	GEODETIC LATITUDE	GEODETIC LONGITUDE	ELEV	AZ (N)	TDZE
15	374425.0054	-1221322.0881	1.6	1642536	4.6
33	374352.8929	-1221310.8194	4.0	3442543	4.6

DISPLACED THRESHOLD DATA

RWY	LENGTH	LATITUDE	LONGITUDE	ELEV
15				
33				

DISTANCES FROM APPROACH END 15

DISTANCE	ELEV
0	1.6
3372	4.0

DISTANCES FROM APPROACH END 33

DISTANCE	ELEV
0	4.0
3372	1.6

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NAVIGATIONAL AID INFORMATION

ELECTRONIC		LATITUDE	LONGITUDE	ELEV	OFFSET DISTANCE	ALONG CNTRLN DISTANCE
ASR	(OAK)	374222.0997	-1221331.1668	3.0		
GS	(11)	374304.8771	-1221413.8165	3.8		
GS	(11) PP	374302.2268	-1221416.6154	8.0	350L	1051
GS	(27R)	374328.5884	-1221230.6166	3.4		
GS	(27R) PP	374333.0137	-1221228.3461	6.6	483L	991
GS	(29)	374209.0357	-1221304.5729	4.6		
GS	(29) PP	374212.0674	-1221301.3705	8.7	400L	1055
IM	(29)	374159.9219	-1221243.0898			860
LMM	(27R)	374316.8751	-1221138.8558			3308
LOC	(11)	374202.2421	-1221246.6421	6.4		490
LOC	(27R)	374354.3340	-1221334.2410	2.9		1253
LOC	(29)	374329.8649	-1221458.0975	9.3		3299
MM	(11)	374331.4466	-1221500.4814			3548
MM	(29)	374144.6129	-1221220.0022			3277
OM	(27R)	374154.1332	-1220725.0323			25355
OM	(29)	373909.3804	-1220825.6799			27801
VORTAC	(OAK)	374333.3122	-1221324.9151	10.0		

VISUAL		LATITUDE	LONGITUDE
ALS	(11)		
ALS	(27R)		
ALS	(29)		
APBN		374349.5060	-1221240.3666
VASI	(9L)		
VASI	(9R)		
VASI	(27L)		

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OBSTRUCTION INFORMATION

9L C

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LTD WSK	374326.79	-1221220.67	1A	29		23	23	20	-5272		350R	23
OL GS	374328.59	-1221230.62	1A	57		51	51	48	-4463		483R	52
OL ON WSK	374343.62	-1221315.03	1A	27		21	21	18	-586		422R	21
BLDG	374357.63	-1221328.18	1A	20		14	14	11	928		492L	-7
OL ON LOC	374354.33	-1221334.24	1A	13		7	7	4	1253		0R	-24
TREE	374359.81	-1221342.25	1A	79		73	73	70	2058		270L	18
TREE	374351.62	-1221347.43	1A	55		49	49	46	2131		654R	-7
TREE	374352.77	-1221350.14	1A	69		63	63	60	2376		628R	-1
TREE	374402.57	-1221345.47	1A	84		78	78	75	2402		431L	14
TREE	374401.44	-1221356.94	1A	90		84	84	81	3213		23R	-4

27R PIR

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON WSK	374343.62	-1221315.03	1A	27		21	20	18	-4869		422L	21
OL GS	374328.59	-1221230.62	1A	57		51	50	48	-991		483L	52
OL ON LTD WSK	374326.79	-1221220.67	1A	29		23	22	20	-182		350L	23
TREE	374331.72	-1221207.69	1A	46		40	39	37	596		505R	32
LT POLE	374326.38	-1221202.84	1A	25		19	18	16	1160		152R	0
RD(N)	374325.05	-1221203.47	1A	24		18	17	15	1164		8R	-1
LT ON SIGN	374330.40	-1221155.83	1A	44		38	37	35	1528		*741R	11
BLDG	374325.91	-1221149.20	1A	41		35	34	32	2193		521R	-5
TREE	374323.70	-1221148.92	1A	60		54	53	51	2298		324R	12
TREE	374325.46	-1221145.17	1A	65		59	58	56	2510		602R	13

9R C

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL GS	374328.59	-1221230.62	1A	57	49	48	48	-5222			*516L	49
OL ON WSK	374330.25	-1221259.05	1A	21	13	12	12	-3043			190R	12
TREE	374339.81	-1221337.31	1A	67	59	58	58	169			454R	59
TREE	374341.29	-1221336.77	1A	54	46	45	45	185			299R	46
TREE	374340.72	-1221338.09	1A	65	57	56	56	261			392R	55
RD(N)	374347.01	-1221344.30	1A	23	15	14	14	964			9L	-8
TREE	374351.62	-1221347.43	1A	55	47	46	46	1372			346L	13
TREE	374352.77	-1221350.14	1A	69	61	60	60	1617			372L	19

27L PIR

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	374341.29	-1221336.77	1A	54	46	45	45	-6397			299L	46
TREE	374339.81	-1221337.31	1A	67	59	58	58	-6381			454L	59
OL ON WSK	374330.25	-1221259.05	1A	21	13	12	12	-3169			190L	12
OL GS	374328.59	-1221230.62	1A	57	49	48	48	-990			*516R	49
POST	374316.28	-1221218.40	1A	13	5	4	4	389			266L	1
RD(N)	374314.74	-1221205.42	1A	25	17	16	16	1413			17L	-8
SIGN	374317.01	-1221204.22	1A	38	30	29	29	1416			232R	6
TREE	374308.90	-1221206.54	1A	50	42	41	41	1553			599L	15
TRMSN TWR	374229.69	-1221042.01	1A	156	148	147	147	9340			1707L	-35

11 PIR

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON WSK	374214.21	-1221254.95	1A	26	18	17	17	-9201			498L	17
ROD ON OL GS	374209.04	-1221304.57	1A	52	44	43	43	-8945			400R	43
OL ON AMOM	374210.99	-1221307.37	1A	27	19	18	18	-8645			393R	18
OL ON GS	374304.88	-1221413.82	1A	42	34	33	33	-1051			350L	34
OL ON WSK	374300.72	-1221422.49	1A	23	15	14	14	-788			420R	15
SIGN	374308.28	-1221436.48	1A	21	13	12	12	565			*557R	6
SIGN	374308.31	-1221437.25	1A	21	13	12	12	614			*594R	5
ROCK	374309.37	-1221438.59	1A	17	9	8	8	765			581R	-2

11 PIR (CONTINUED)

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SIGN	374311.37	-1221441.52	1A	21		13	12	12	1076		577R	-4
BLDG	374311.96	-1221441.16	1A	20		12	11	11	1093		513R	-6

29 PIR

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON WSK	374300.72	-1221422.49	1A	23		14	14	14	-9212		420L	15
OL ON GS	374304.88	-1221413.82	1A	42		33	33	33	-8949		350R	34
OL ON AMOM	374210.99	-1221307.37	1A	27		18	18	18	-1355		393L	18
ROD ON OL GS	374209.04	-1221304.57	1A	52		43	43	43	-1055		400L	43
OL ON WSK	374214.21	-1221254.95	1A	26		17	17	17	-799		498R	17
OL ON LOC	374202.24	-1221246.64	1A	14		5	5	5	490		0R	-1
BLDG	374204.36	-1221243.75	1A	14		5	5	5	531		313R	-1
SIGN	374206.42	-1221241.28	1A	20		11	11	11	549		*600R	5
POST	374157.66	-1221250.13	1A	20		11	11	11	573		535L	4

15 AV

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LTD WSK	374421.59	-1221318.67	1A	12		10	7	3	-406		*171L	10
RADAR RFLTR	374422.10	-1221322.85	1A	11		9	6	2	-267		*138R	9
FENCE	374433.84	-1221325.15	1A	17		15	12	8	927		3L	-21
BLDG	374438.33	-1221323.86	1A	28		26	23	19	1336		225L	-30
VENT ON BLDG	374438.51	-1221323.38	1A	48		46	43	39	1343		*267L	-11
ANT ON OL TWR	374438.84	-1221326.07	1A	51		49	46	42	1434		68L	-12

33 AV

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
RADAR RFLTR	374422.10	-1221322.85	1A	11		7	6	2	-3105		*138L	9
OL ON LTD WSK	374421.59	-1221318.67	1A	12		8	7	3	-2966		*171R	10

33 AV (CONTINUED)

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON WSK	374330.25	-1221259.05	1A	21		17	16	12	2460		296R	-96

ARP HCT

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE	PNTR
OL VORTAC	374333.31	-1221324.92	1A	52		43	31905	1883	16
ANT ON OL N ATCT	374321.19	-1221246.56	1A	101		92	6333	2300	69
OL ON MCWV TWR	374334.10	-1221347.97	1A	143		134	28838	3213	12
OL ON LT POLE	374311.84	-1221229.56	1A	77		68	8247	3651	-6
ANT ON OL S ATCT	374244.94	-1221251.94	1A	161		152	13534	3684	2
OL ON LT POLE	374238.35	-1221317.45	1A	99		90	16835	3876	-10
OL ON LT POLE	374344.16	-1221236.31	1A	50		41	3300	4152	1
OL ANT ON HGR	374354.70	-1221252.32	1A	100		91	1006	4249	-21
OL ON APBN	374349.51	-1221240.37	1A	70		61	2446	4318	-33
ANT ON OL HGR	374341.20	-1221224.89	1A	63		54	4316	4705	4
LT POLE	374311.69	-1221216.22	1A	44		35	8114	4717	18
OL ON HGR	374339.30	-1221221.73	1A	56		47	4648	4828	9
OL ON LT POLE	374229.37	-1221303.73	1A	100		91	15450	4856	-12
BLDG	374336.72	-1221217.64	1A	40		31	5113	5009	9
EQUIP ON OL BLDG	374335.14	-1221215.24	1A	40		31	5343	5125	20
OL ON BLDG	374407.22	-1221310.68	1A	50		41	34843	5130	7
OL ON HGR	374333.54	-1221211.51	1A	42		33	5631	5351	27
ANT ON OL ASR	374222.10	-1221331.17	1A	52		43	17846	5671	6
TREE	374333.16	-1221206.91	1A	55		46	5804	5690	27
SIGN	374337.27	-1221207.07	1A	71		62	5407	5815	-12
TREE	374411.11	-1221353.46	1A	90		81	31541	6336	-21
LT ON SIGN	374330.40	-1221155.83	1A	44		35	6245	6481	5
OL ON LT POLE	374420.39	-1221325.77	1A	44		35	33716	6515	1
OL ON LTD WSK	374421.59	-1221318.67	1A	12		3	34221	6582	3
SIGN	374308.28	-1221436.48	1A	21		12	24755	6633	5
RADAR RFLTR	374422.10	-1221322.85	1A	11		2	33929	6658	7
OL ON LT POLE	374422.68	-1221316.56	1A	29		20	34351	6686	-7
SIGN	374308.31	-1221437.25	1A	21		12	24800	6693	0
WSK ON BLDG	374426.17	-1221328.93	1A	32		23	33554	7130	-25
SIGN	374206.42	-1221241.28	1A	20		11	14432	7587	-2

ARP HCT (CONTINUED)

OBJECT	LATITUDE	LONGITUDE	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE	PNTR
POLE	374433.16	-1221320.84	1A	27		18	34130	7760	-23
POLE	374438.28	-1221321.07	1A	51		42	34136	8278	-34
VENT ON BLDG	374408.25	-1221154.21	1A	137		128	3613	8307	-22
VENT ON BLDG	374438.51	-1221323.38	1A	48		39	34020	8315	-15
ANT ON OL BLDG	374414.70	-1221146.67	1A	148		139	3526	9189	-11
ANT ON OL BLDG	374449.50	-1221211.60	1A	211	200	202	1330	10673	52
OL LT POLE	374501.95	-1221203.24	1A	180		171	1328	12101	21
OL LT POLE	374509.09	-1221200.03	1A	197		188	1257	12859	38
TRMSN TWR	374229.69	-1221042.01	1A	156		147	9620	13147	-3
VESSEL (HCT)									

ADDITIONAL INFORMATION:

SECOND ATCT, 3700 FEET NORTH OF MAIN ATCT, HAS A FLOOR ELEVATION OF 65 FEET.

AERONAUTICAL DATA IS AVAILABLE ON THE INTERNET AT 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.