OBSTRUCTION DATA SHEET

ODS 693
SAN JOSE INTERNATIONAL AIRPORT
SAN JOSE, CALIFORNIA

DIGITIZED FROM

OC 693
SURVEYED MARCH 1994
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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).

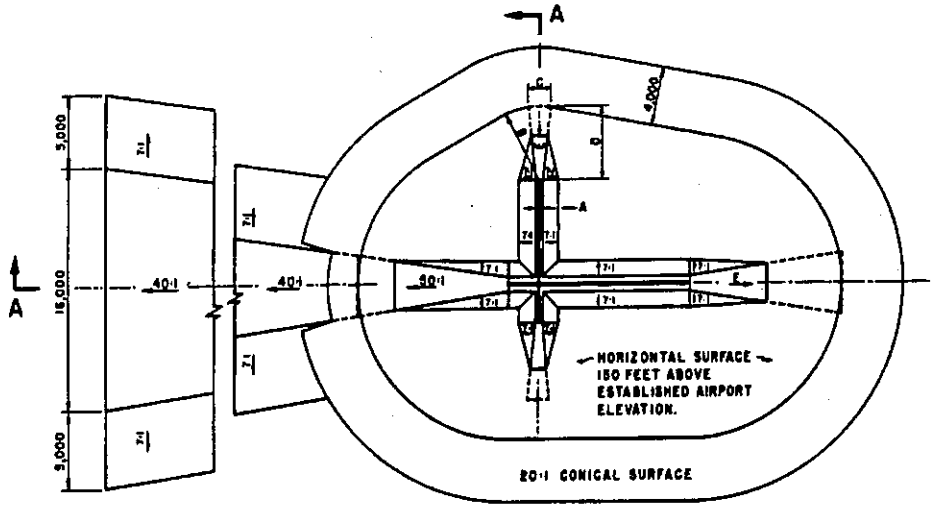
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

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:

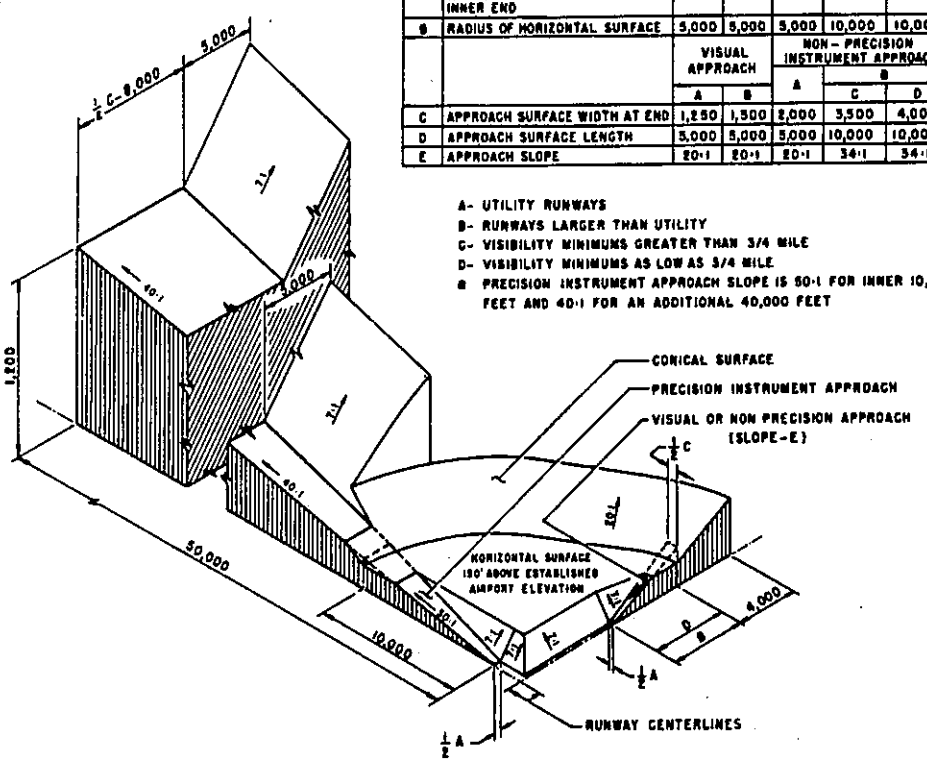
A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway- nonprecision 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		
					C	D	
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
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
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

X[1] X[2] XXXX/XXXX[3] XXXXXX.XXX[4] XXXXXXX.XXX[4] XXXXXXX[5] XXXX/XXXX[6] XXXXXX.XXX[7] XXXXXXX.XXX[7]

OBJECT	LAT	LONG	A[8]	EL[9]	AGL[10]	HAR[11]	HAT[11]	HAA[11]	DEND[12]	DTHR[12]	DCLN[12]	PNTR[13]
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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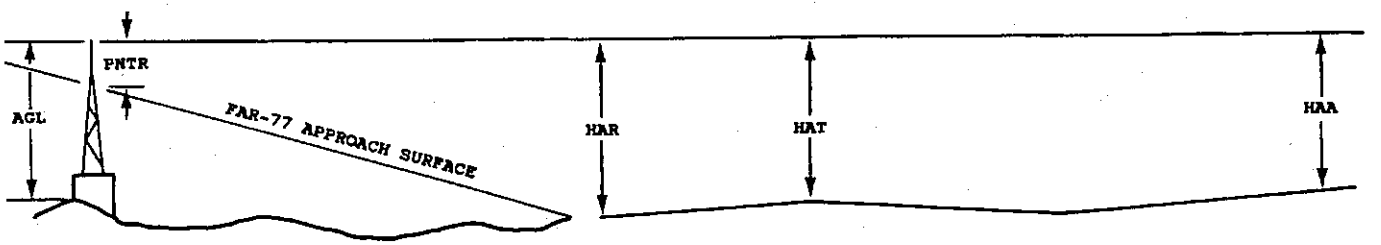

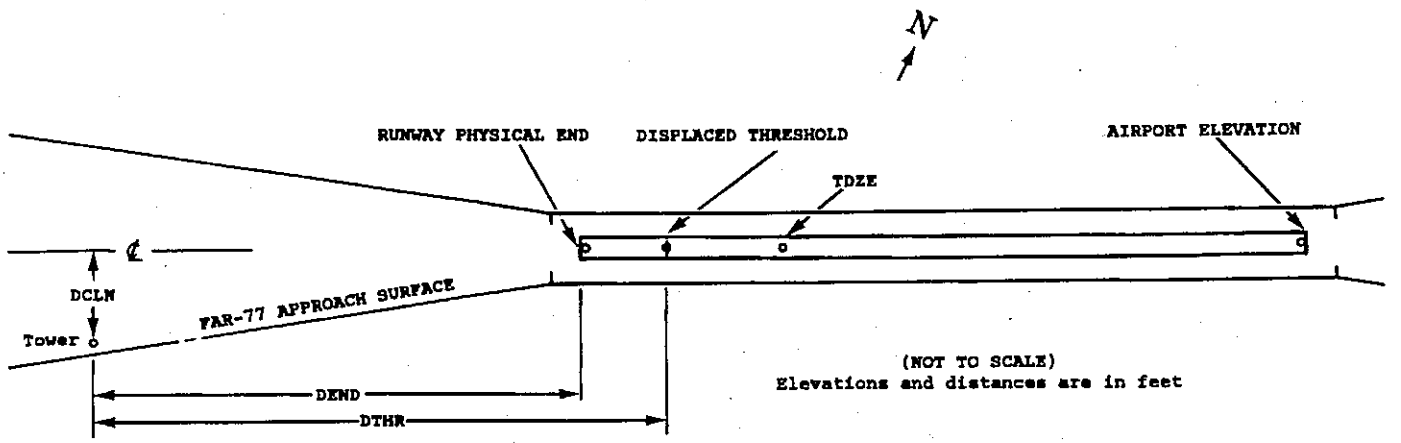

EXPLANATION OF FOOTNOTES

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 <u>appearing on the OC</u> 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).

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AIRPORT ELEVATION 58

11 AV 40/ 46 372157.201 -1215611.739 1384835.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
POLE	372210.72	-1215628.62	1A	74		34	28	16	1926		125R	-52
TREE	372213.23	-1215631.19	1A	104		64	58	46	2254		114R	-38
OL ON BLAST FENCE	372215.39	-1215629.51	1A	50		10	4	-8	2329		132L	-96
ANT ON BLDG	372215.73	-1215637.89	1A	99		59	53	41	2801		354R	-71
TREE	372218.59	-1215635.66	1A	97		57	51	39	2900		28R	-77
BLDG	372221.65	-1215632.01	1A	48		8	2	-10	2939		397L	-128
BLAST FENCE	372220.93	-1215634.49	1A	48		8	2	-10	3015		198L	-132
LT POLE	372220.44	-1215635.30	1A	54		14	8	-4	3022		117L	-127
BLDG	372221.06	-1215639.91	1A	76		36	30	18	3313		122R	-119
LT POLE	372223.49	-1215637.18	1A	63		23	17	5	3353		206L	-134
VOR/DME	372228.95	-1215640.79	1A	80		40	34	22	3961		350L	-148
POLE	372230.60	-1215646.83	1A	83		43	37	25	4407		93L	-167
POLE	372230.47	-1215648.93	1A	91		51	45	33	4509		43R	-164
TREE	372236.52	-1215650.51	1A	102		62	56	44	5054		264L	-180

29 AV 49/ 49 372122.985 -1215534.230 3184858.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
HANGAR	372113.58	-1215524.80	1A	68		19	19	10	1217		53L	-32
LT POLE	372110.25	-1215520.35	1A	86		37	37	28	1708		5L	-39
TREE	372106.67	-1215518.91	1A	132		83	83	74	2056		155L	-10
TREE	372105.32	-1215515.05	1A	118		69	69	60	2364		10L	-40
LT POLE	372105.02	-1215512.61	1A	92		43	43	34	2517		117R	-73
TREE	372103.64	-1215510.80	1A	95		46	46	37	2718		135R	-80
ROAD(N)	372103.88	-1215507.98	1A	73		24	24	15	2850		323R	-109
POLE	372100.79	-1215508.96	1A	102		53	53	44	3033		57R	-89
TREE	372055.62	-1215509.28	1A	145		96	96	87	3409		306L	-65
POLE	372057.68	-1215505.22	1A	94		45	45	36	3469		78R	-119
TREE	372059.24	-1215502.37	1A	98		49	49	40	3501		355R	-116
TREE	372056.12	-1215502.18	1A	116		67	67	58	3749		158R	-111
POLE	372057.74	-1215459.62	1A	100		51	51	42	3762		422R	-127
TREE	372055.59	-1215458.91	1A	116		67	67	58	3963		322R	-122
TREE	372050.20	-1215500.18	1A	131		82	82	73	4306		114L	-124
POLE	372053.15	-1215454.52	1A	103		54	54	45	4382		426R	-155
TREE	372051.00	-1215451.16	1A	115		66	66	57	4725		487R	-161
POLE	372047.22	-1215454.80	1A	115		66	66	57	4819		14R	-165
POLE	372044.59	-1215451.96	1A	125		76	76	67	5169		12R	-173

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AIRPORT ELEVATION 58

12L C 40/ 48 372157.868 -1215549.437 1384801.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	372213.05	-1215613.74	1A	47		7	-1	-11	2447		465R	-59
LT POLE	372221.37	-1215605.69	1A	74		34	26	16	2652		578L	-38
LT POLE	372221.81	-1215616.71	1A	57		17	9	-1	3272		61R	-73
LT POLE	372224.33	-1215619.71	1A	58		18	10	0	3623		76R	-83
LT POLE	372226.21	-1215622.97	1A	54		14	6	-4	3940		148R	-96
FENCE	372225.94	-1215626.52	1A	40		0	-8	-18	4108		382R	-115
OL ON LOC	372226.71	-1215632.58	1A	41		1	-7	-17	4489		698R	-125
OL ON BLAST FENCE	372227.99	-1215631.83	1A	48		8	0	-10	4546		567R	-120
LT POLE	372230.11	-1215634.34	1A	68		28	20	10	4841		579R	-108
LT POLE	372233.84	-1215631.99	1A	76		36	28	18	5000		187R	-105
POLE	372237.99	-1215631.23	1A	85		45	37	27	5275		135L	-104
POLE	372238.78	-1215636.76	1A	77		37	29	19	5629		148R	-123
TREE	372236.52	-1215650.51	1A	102		62	54	44	6189		1133R	-114
TREE	372249.29	-1215645.16	1A	93		53	45	35	6876		42L	-143
ANT ON BLDG	372256.41	-1215651.20	1A	121		81	73	63	7739		150L	-141
ANT ON BLDG	372301.98	-1215701.81	1A	135		95	87	77	8726		123R	-156
TRMSN TWR	372306.94	-1215710.04	1A	149		109	101	91	9541		293R	-166

30R C 53/ 53 372124.991 -1215513.384 3184823.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	372116.97	-1215501.95	1A	67		14	14	9	1219		160R	-15
OL ON BLAST FENCE	372110.70	-1215459.44	1A	70		17	17	12	1829		105L	-30
OL ON BLDG	372112.41	-1215456.05	1A	83		30	30	25	1879		215R	-19
BLAST FENCE	372106.43	-1215500.95	1A	72		19	19	14	2074		480L	-36
TREE	372104.95	-1215454.09	1A	104		51	51	46	2551		163L	-18
POLE	372106.00	-1215448.82	1A	100		47	47	42	2752		228R	-28
TREE	372059.79	-1215454.11	1A	105		52	52	47	2943		507L	-28
TREE	372058.52	-1215451.31	1A	120		67	67	62	3188		422L	-20
ANT	372100.92	-1215447.24	1A	99		46	46	41	3222		15L	-42
TREE	372058.15	-1215447.56	1A	118		65	65	60	3416		218L	-29
TREE	372053.70	-1215448.72	1A	115		62	62	57	3693		586L	-40
TREE	372051.03	-1215447.44	1A	123		70	70	65	3964		686L	-40
TRMSN TWR	372100.45	-1215433.74	1A	153		100	100	95	3975		774R	-11
POLE	372048.61	-1215441.97	1A	120		67	67	62	4439		515L	-57
TREE	372046.27	-1215443.36	1A	137		84	84	79	4544		755L	-43
TRMSN TWR	372049.13	-1215424.53	1A	144		91	91	86	5327		580R	-59
TREE	372044.80	-1215429.06	1A	131		78	78	73	5416		16R	-75
TREE	372033.80	-1215432.44	1A	150		97	97	92	6073		922L	-75
TRMSN TWR	372018.53	-1215409.92	1A	197		144	144	139	8433		570L	-98

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AIRPORT ELEVATION 58

12R PIR 36/ 372222.374 -1215627.822 1384824. 36/ 42 372215.756 -1215620.564

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BLAST FENCE	372106.43	-1215500.95	1A	72		36	30	14	-10399	-9509	220L	14
ROAD(N)	372103.88	-1215507.98	1A	73		37	31	15	-10219	-9329	377R	15
WSK	372123.33	-1215526.56	1A	63		27	21	5	-7751	-6862	211R	10
OL ON GS	372132.34	-1215526.39	1A	81		45	39	23	-7074	-6184	399L	30
ROD ON OL TMOM	372132.93	-1215527.01	1A	65		29	23	7	-6996	-6107	401L	14
OL ON AMOM	372137.93	-1215532.59	1A	67		31	25	9	-6319	-5430	395L	18
OL ON LTD WSK	372145.79	-1215541.93	1A	71		35	29	13	-5224	-4335	351L	24
OL ON GS	372205.91	-1215614.71	1A	71		35	29	13	-1950	-1060	300R	32
WSK	372213.05	-1215613.74	1A	47		11	5	-11	-1458	-569	234L	10
BLDG	372221.65	-1215632.01	1A	48		12	6	-10	168	1058	303R	12
FENCE	372225.94	-1215626.52	1A	40		4	-2	-18	202	1092	317L	4
BLAST FENCE	372220.93	-1215634.49	1A	48		12	6	-10	244	1134	502R	11
LT POLE	372223.49	-1215637.18	1A	63		27	21	5	582	1472	494R	20
OL ON LOC	372226.71	-1215632.58	1A	41		5	-1	-17	583	1472	0R	-2
OL ON BLAST FENCE	372227.99	-1215631.83	1A	48		12	6	-10	641	1530	131L	3
LT POLE	372230.11	-1215634.34	1A	68		32	26	10	935	1825	120L	18
LT POLE	372233.84	-1215631.99	1A	76		40	34	18	1094	1984	511L	22
VOR/DME	372228.95	-1215640.79	1A	80		44	38	22	1190	2080	350R	24
POLE	372230.60	-1215646.83	1A	83		47	41	25	1636	2526	606R	19
POLE	372238.78	-1215636.76	1A	77		41	35	19	1723	2613	550L	11
TREE	372236.52	-1215650.51	1A	102		66	60	44	2283	3173	435R	25
TREE	372249.29	-1215645.16	1A	93		57	51	35	2970	3860	740L	2
POLE	372242.98	-1215700.51	1A	110		74	68	52	3306	4195	613R	12
ANT ON BLDG	372256.41	-1215651.20	1A	121		85	79	63	3833	4722	847L	13
ANT ON BLDG	372301.98	-1215701.81	1A	135		99	93	77	4820	5710	574L	7
TRMSN TWR	372306.94	-1215710.04	1A	149		113	107	91	5635	6525	405L	5

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AIRPORT ELEVATION 58

30L PIR 58/ 372106.484 -1215504.628 3184914. 54/ 54 372120.428 -1215519.909

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BLDG	372221.65	-1215632.01	1A	48		-10	-6	-10	-10367	-8493	303L	12
WSK	372213.05	-1215613.74	1A	47		-11	-7	-11	-8741	-6867	234R	10
OL ON GS	372205.91	-1215614.71	1A	71		13	17	13	-8249	-6376	300L	32
OL ON LTD WSK	372145.79	-1215541.93	1A	71		13	17	13	-4975	-3101	351R	24
OL ON AMOM	372137.93	-1215532.59	1A	67		9	13	9	-3880	-2006	395R	18
ROD ON OL TMOM	372132.93	-1215527.01	1A	65		7	11	7	-3203	-1329	401R	14
OL ON GS	372132.34	-1215526.39	1A	81		23	27	23	-3125	-1251	399R	30
WSK	372123.33	-1215526.56	1A	63		5	9	5	-2448	-574	211L	10
ROAD(N)	372103.88	-1215507.98	1A	73		15	19	15	20	1894	377L	15
BLAST FENCE	372106.43	-1215500.95	1A	72		14	18	14	199	2073	220R	14
ANT ON BLDG	372102.85	-1215504.38	1A	72		14	18	14	290	2163	227L	12
OL ON LOC	372103.49	-1215501.34	1A	66		8	12	8	403	2277	0R	4
OL ON BLAST FENCE	372102.43	-1215502.01	1A	72		14	18	14	448	2322	111L	9
TREE	372059.24	-1215502.37	1A	98		40	44	40	671	2545	345L	31
TREE	372104.95	-1215454.09	1A	104		46	50	46	677	2551	538R	36
ROAD (I)	372101.04	-1215458.70	1A	79		21	25	21	729	2603	2L	10
TREE	372056.12	-1215502.18	1A	116		58	62	58	919	2793	542L	44
POLE	372057.74	-1215459.62	1A	100		42	46	42	932	2806	278L	27
TREE	372059.79	-1215454.11	1A	105		47	51	47	1069	2943	194R	30
TREE	372055.59	-1215458.91	1A	116		58	62	58	1133	3007	378L	39
TREE	372058.52	-1215451.31	1A	120		62	66	62	1314	3188	279R	40
TREE	372058.15	-1215447.56	1A	118		60	64	60	1542	3416	483R	33
POLE	372053.15	-1215454.52	1A	103		45	49	45	1552	3426	274L	18
TREE	372053.70	-1215448.72	1A	115		57	61	57	1818	3692	115R	25
TREE	372051.00	-1215451.16	1A	115		57	61	57	1895	3769	213L	23
POLE	372047.22	-1215454.80	1A	115		57	61	57	1989	3863	686L	21
TREE	372051.03	-1215447.44	1A	123		65	69	65	2090	3964	15R	27
POLE	372044.59	-1215451.[illegible]	1A	125		67	71	67	2340	4213	688L	24
POLE	372048.61	-1215441.97	1A	120		62	66	62	2565	4439	187R	15
TREE	372046.27	-1215443.36	1A	137		79	83	79	2669	4543	53L	30
TREE	372034.97	-1215444.46	1A	139		81	85	81	3471	5345	873L	16
TREE	372044.80	-1215429.06	1A	131		73	77	73	3541	5415	718R	6
TREE	372035.95	-1215437.39	1A	137		79	83	79	3772	5646	378L	7
TREE	372033.80	-1215432.44	1A	150		92	96	92	4199	6073	220L	12
TRMSN TWR	372018.53	-1215409.92	1A	197		139	143	139	6559	8432	132R	12
ANT ON OL BLDG	372014.35	-1215339.12	1A	314	232	256	260	256	8514	10388	1726R	90
OL ON BLDG	372002.77	-1215339.70	1A	298	216	240	244	240	9366	11240	920R	57
VENT ON BLDG	372002.87	-1215330.36	1A	305	219	247	251	247	9855	11728	1494R	54
ANT ON OL BLDG	371955.29	-1215333.74	1A	311	219	253	257	253	10252	12125	785R	52
ANT ON OL BLDG	372001.78	-1215321.59	1A	353	266	295	299	295	10404	12278	1955R	90
OL ON BLDG	371943.98	-1215337.91	1A	315	225	257	261	257	10891	12765	222L	40

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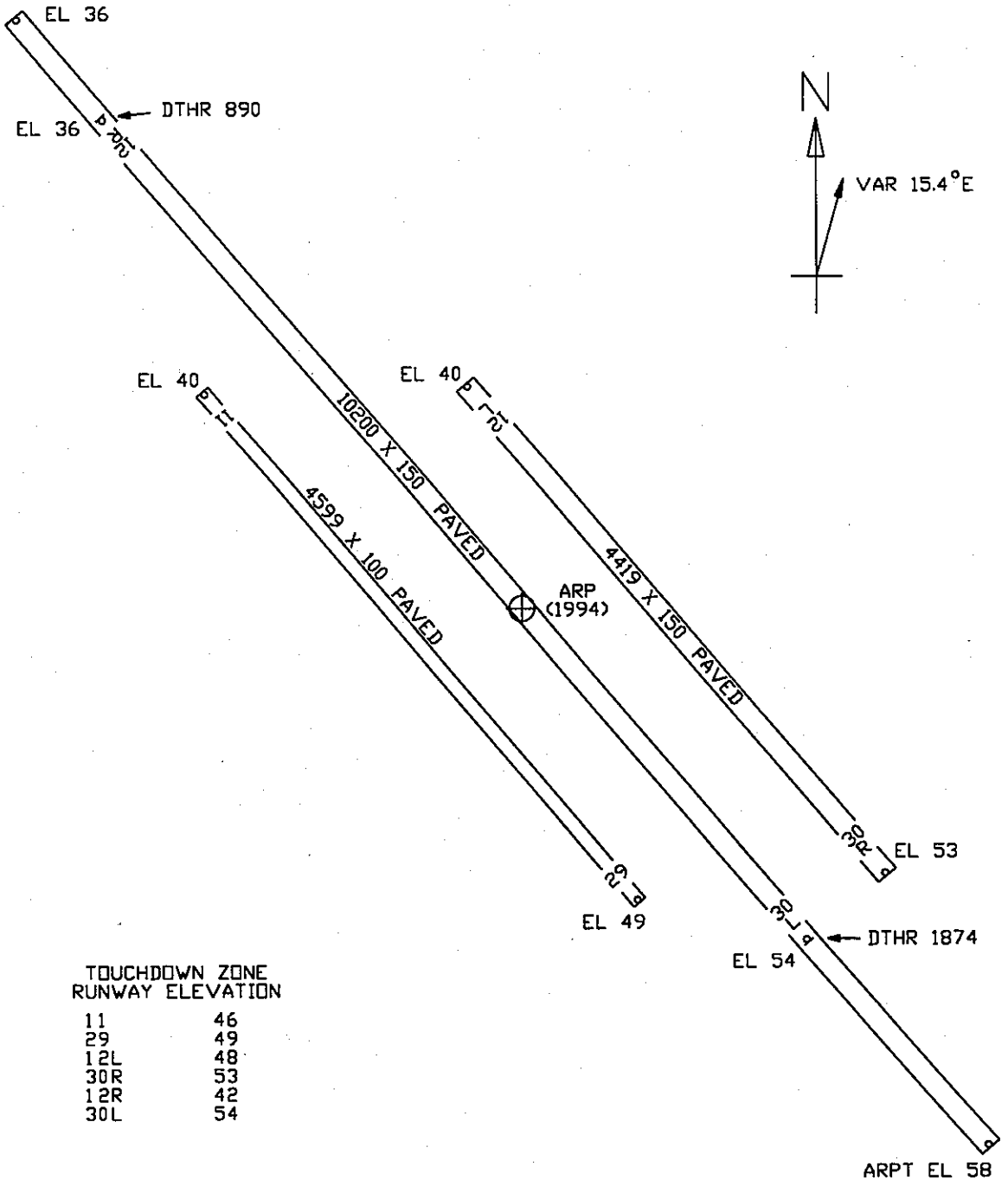
AIRPORT ELEVATION 58

ARP 372142.703 -1215544.432

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
ANT ON OL ATCT	372134.79	-1215553.88	1A	156		98	20814	1106
ANT AND APBN ON ATCT	372150.19	-1215525.52	1A	129		71	4813	1704
WSK	372125.77	-1215534.57	1A	61		3	13939	1888
ANT ON OL RTR TWR	372118.23	-1215539.02	1A	122		64	15434	2513
LT POLE	372212.51	-1215551.10	1A	100		42	33428	3062
ANT ON BLDG	372159.06	-1215508.99	1A	186		128	4434	3305
ROD ON HANGAR	372117.11	-1215453.71	1A	78		20	10653	4844
ANT ON BLDG	372049.43	-1215625.42	1A	250		192	19609	6324
TRMSN TWR	372108.94	-1215437.79	1A	180		122	10659	6372
ANT ON BLDG	372052.99	-1215643.85	1A	204		146	20815	6949
TREE	372042.01	-1215452.69	1A	142		84	13021	7426
ANT ON OL BLDG	372104.98	-1215422.35	1A	231		173	10431	7647
ANT ON OL BLDG	372109.76	-1215414.36	1A	281	218	223	9912	7999
OL ON TANK	372207.49	-1215722.92	1A	209		151	27206	8337
TRMSN TWR	372237.53	-1215703.03	1A	117		59	29545	8426
ANT ON OL BLDG	372054.72	-1215400.35	1A	257		199	10435	9704
OL ON BLDG	372007.97	-1215503.20	1A	219		161	14526	10144
OL ON BLDG	372022.21	-1215322.85	1A	228		170	11002	14034
VENT ON BLDG	372313.12	-1215800.53	1A	209		151	29423	14294
ANT ON BLDG	372015.30	-1215322.36	1A	284	204	226	11212	14482
POLE ON BLDG	372009.57	-1215324.57	1A	355	268	297	11425	14705
FLGPL ON BLDG	372019.33	-1215308.23	1A	254		196	10821	15171
OL WSK ON BLDG	372308.27	-1215820.20	1A	208		150	28909	15264



TOUCHDOWN ZONE RUNWAY	ELEVATION
11	46
29	49
12L	48
30R	53
12R	42
30L	54

SAN JOSE INTERNATIONAL AIRPORT

SAN JOSE, CALIFORNIA

(NOT TO SCALE)

(ELEVATIONS AND DISTANCES IN FEET)