OBSTRUCTION DATA SHEET

ODS 671
TWEED - NEW HAVEN AIRPORT
NEW HAVEN, CONNECTICUT

DIGITIZED FROM

OC 671
SURVEYED AUGUST 1991
10TH EDITION

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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).

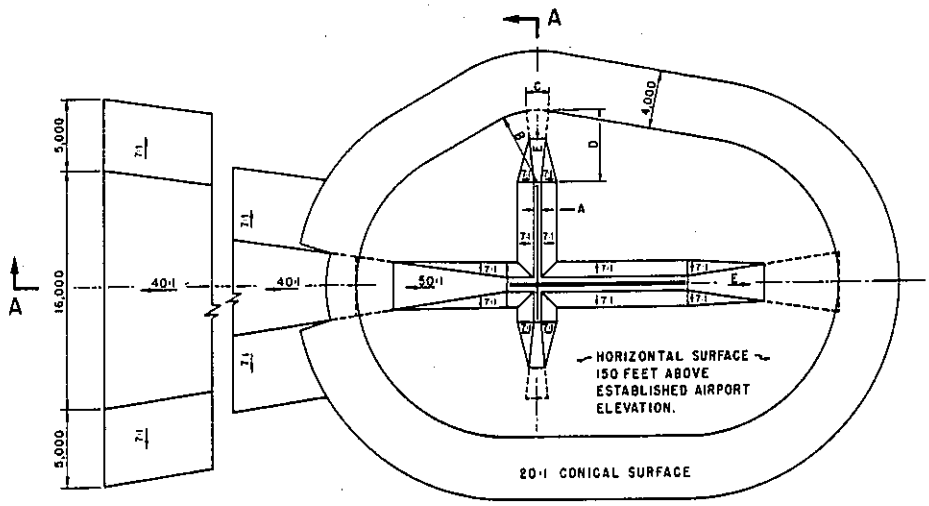
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

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)

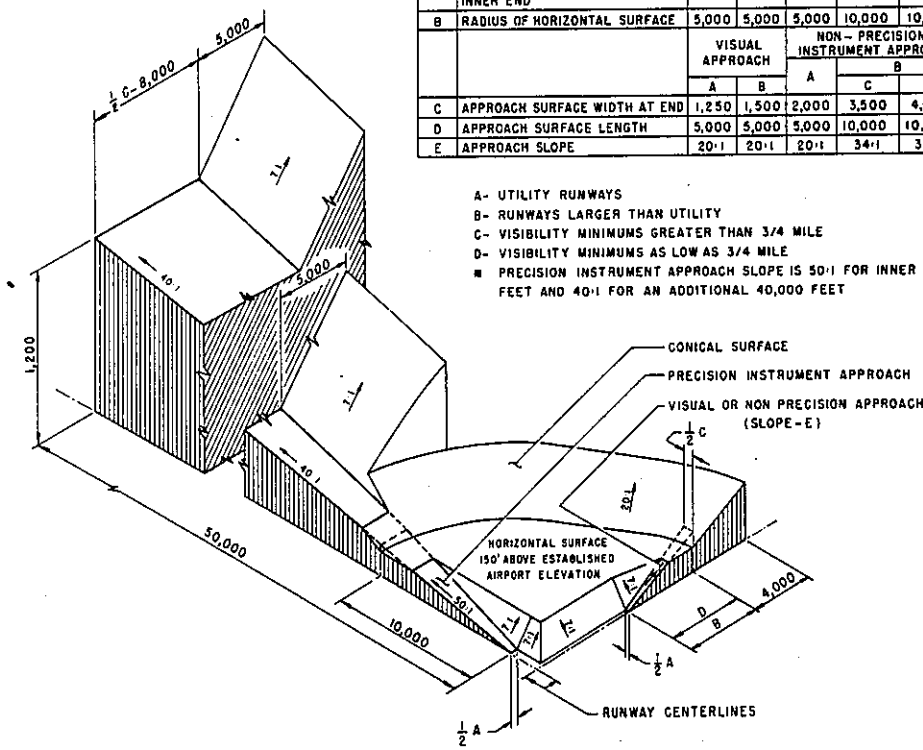
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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



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]	ELEV[9]	AGL[10]	HAR[11]	HAT[11]
XXXXXXXXXXX			XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX
XXXXXXXXXXX			XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX

HAA[11]	DEND[12]	DTHR[12]	DCLN[12]	PNTR[13]
XXX	XXXXX	XXXXX	XXXX	XXXX
XXX	XXXXX	XXXXX	XXXX	XXXX

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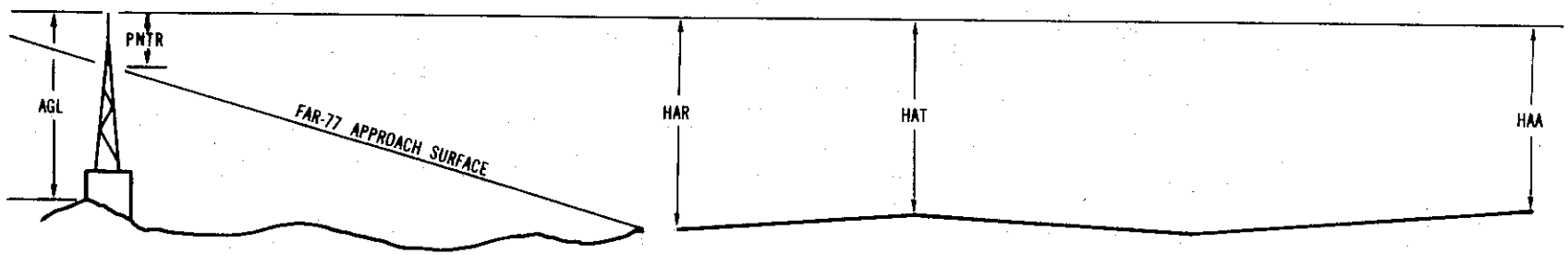
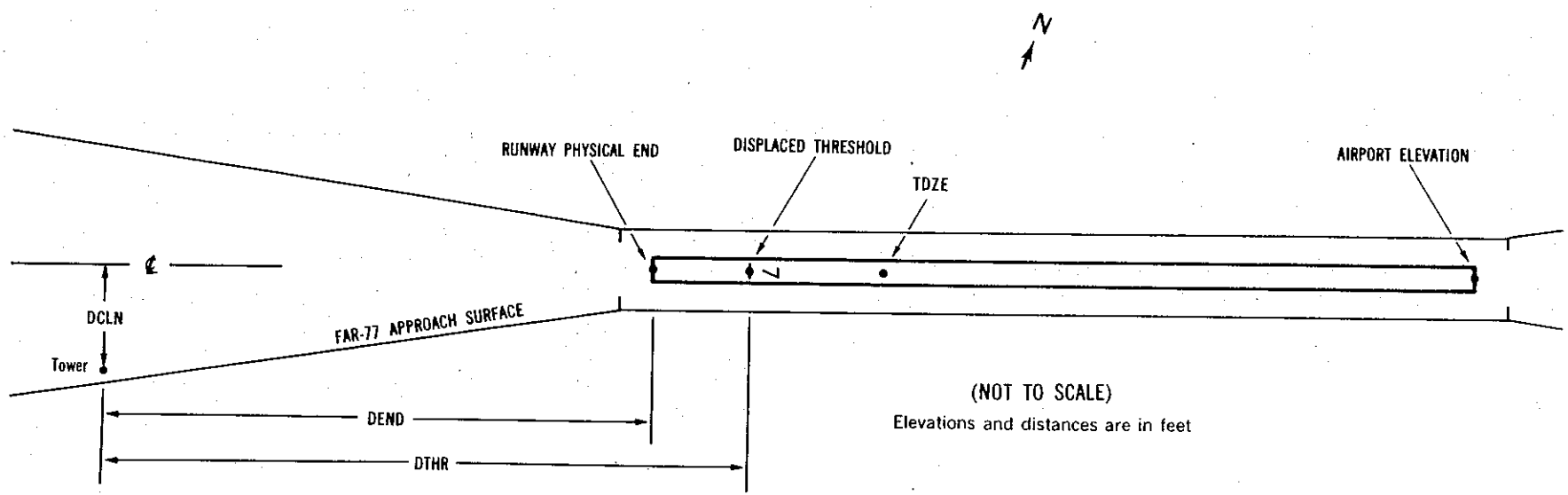




(NOT TO SCALE)

Elevations and distances are in feet

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).

OC0671

AIRPORT ELEVATION 13

2 PIR 7/7 411521.433N 0725319.316W 1825450

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	411618.47	0725309.60	1A	67		60	60	54	-5803		447R	54
FENCE	411618.14	0725311.52	1A	23		16	16	10	-5762		302R	10
TREE	411611.98	0725309.88	1A	69		62	62	56	-5146		460R	59
OL ANEMOMETER	411600.76	0725311.43	1A	30		23	23	17	-4006		399R	22
OL ON LIGHTED WINDSOCK	411557.72	0725310.09	1A	36		29	29	23	-3704		517R	29
OL ON GLIDE SLOPE	411531.46	0725321.91	1A	29		22	22	16	-1004		250L	23
TREE	411529.60	0725325.44	1A	60		53	53	47	-802		509L	54
TREE	411527.01	0725324.05	1A	62		55	55	49	-545		390L	56
TREE	411524.85	0725312.95	1A	40		33	33	27	-370		468R	34
OL ON POLE	411523.59	0725325.90	1A	41		34	34	28	-192		514L	34
BUSH	411522.73	0725315.88	1A	17		10	10	4	-145		255R	10
BUSH	411521.94	0725322.80	1A	15		8	8	2	-38		268L	8
OL ON POLE	411521.00	0725325.89	1A	43		36	36	30	69		499L	36
BUSH	411520.16	0725316.05	1A	21		14	14	8	116		256R	14
OL ON POLE	411519.58	0725325.53	1A	28		21	21	15	211		465L	21
BUSH	411518.74	0725322.71	1A	18		11	11	5	285		245L	9
TREE	411517.96	0725313.43	1A	34		27	27	21	328		467R	24
TREE	411517.38	0725326.04	1A	32		25	25	19	436		492L	20
TREE	411516.49	0725315.81	1A	26		19	19	13	486		293R	13
BUSH	411516.32	0725318.89	1A	24		17	17	11	515		59R	11
TREE	411507.58	0725326.62	1A	65		58	58	52	1429		486L	33
TREE	411506.86	0725323.29	1A	59		52	52	46	1488		228L	26
TREE	411500.97	0725329.82	1A	84		77	77	71	2109		696L	39
TREE	411458.81	0725311.82	1A	70		63	63	57	2258		688R	22
TREE	411455.55	0725315.57	1A	72		65	65	59	2602		419R	17
TREE	411455.24	0725321.04	1A	94		87	87	81	2654		3R	38
TREE	411452.85	0725325.88	1A	86		79	79	73	2915		354L	25

AIRPORT ELEVATION 13

20 SUPLC 13/ 411616.691N 0725315.588W 0025453 10/10 411613.249N 0725315.820W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON POLE	411519.58	0725325.53	1A	28		15	18	15	-5811	-5462	465R	21
BUSH	411520.16	0725316.05	1A	21		8	11	8	-5716	-5367	256L	14
OL ON POLE	411521.00	0725325.89	1A	43		30	33	30	-5669	-5321	499R	36
BUSH	411521.94	0725322.80	1A	15		2	5	2	-5562	-5214	268R	8
BUSH	411522.73	0725315.88	1A	17		4	7	4	-5455	-5107	255L	10
OL ON POLE	411523.59	0725325.90	1A	41		28	31	28	-5408	-5059	514R	34
TREE	411524.85	0725312.95	1A	40		27	30	27	-5230	-4881	468L	34
TREE	411527.01	0725324.05	1A	62		49	52	49	-5055	-4706	390R	56
TREE	411529.60	0725325.44	1A	60		47	50	47	-4798	-4450	509R	54
OL ON GLIDE SLOPE	411531.46	0725321.91	1A	29		16	19	16	-4596	-4248	250R	23
OL ON LIGHTED WINDSOCK	411557.72	0725310.09	1A	36		23	26	23	-1896	-1548	517L	29
OL ANEMOMETER	411600.76	0725311.43	1A	30		17	20	17	-1594	-1245	399L	22
TREE	411611.98	0725309.88	1A	69		56	59	56	-454	-106	460L	59
FENCE	411618.14	0725311.52	1A	23		10	13	10	162	511	302L	10
TREE	411618.47	0725309.60	1A	67		54	57	54	203	552	447L	54
BUSH	411619.70	0725310.32	1A	36		23	26	23	324	673	387L	19
ROAD (N)	411620.21	0725315.21	1A	25		12	15	12	358	706	11L	7
TREE	411622.14	0725309.24	1A	56		43	46	43	576	924	456L	32
OL ON DME	411625.39	0725312.52	1A	30		17	20	17	891	1240	189L	-3
OL ON POLE	411626.33	0725310.29	1A	63		50	53	50	994	1343	354L	27
OL ON POLE	411627.33	0725315.79	1A	79		66	69	66	1075	1424	70R	40
TREE	411627.30	0725311.96	1A	75		62	65	62	1086	1435	222L	36
OL POLE	411628.14	0725319.45	1A	75		62	65	62	1142	1491	353R	34
TREE	411630.82	0725322.13	1A	150		137	140	137	1403	1751	572R	102
TREE	411632.68	0725321.81	1A	162		149	152	149	1592	1941	557R	108
TREE	411633.56	0725319.13	1A	119		106	109	106	1691	2040	357R	62
TREE	411633.47	0725315.18	1A	106		93	96	93	1698	2046	55R	49
TREE	411647.37	0725312.58	1A	136		123	126	123	3113	3461	72L	37
TREE	411652.13	0725325.23	1A	157		144	147	144	3544	3893	917R	46
TREE	411654.08	0725315.06	1A	139		126	129	126	3781	4130	152R	21
TREE	411654.85	0725321.34	1A	130		117	120	117	3835	4184	635R	10
TRANSMISSION TOWER	411732.81	0725315.92	1A	176		163	166	163	7693	8042	417R	-57
TREE	411739.01	0725330.06	1B	195		182	185	182	8265	8614	1527R	-55

AIRPORT ELEVATION 13

14 SUPLC 6/ 411601.116N 0725326.865W 3111025 6/7 411558.730N 0725323.251W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	411537.42	0725248.49	1A	23		17	16	10	-3785	-3418	125L	18
TREE	411534.70	0725251.72	1A	33		27	26	20	-3780	-3413	245R	28
OL ON LIGHT STANDARD	411557.62	0725326.02	1A	24		18	17	11	-282	85	224R	18
OL ON LIGHT STANDARD	411559.22	0725328.44	1A	25		19	18	12	-36	331	223R	19
OL ON LIGHT STANDARD	411600.82	0725330.84	1A	25		19	18	12	209	576	223R	19
TREE	411601.47	0725332.22	1A	42		36	35	29	331	698	242R	32
OL ON LIGHT STANDARD	411603.12	0725332.39	1A	20		14	13	7	451	818	125R	7
TREE	411602.91	0725335.22	1A	82		76	75	69	600	967	283R	64
OL POLE	411606.88	0725332.84	1A	37		31	30	24	727	1094	139L	15
ROAD (N)	411606.00	0725334.23	1A	27		21	20	14	749	1116	2L	5
TREE	411608.28	0725334.96	1A	77		71	70	64	943	1309	139L	49
TREE	411611.55	0725336.50	1A	117		111	110	104	1249	1615	310L	80
OL POLE	411610.16	0725338.51	1A	84		78	77	71	1272	1639	104L	46
TREE	411607.47	0725342.74	1A	105		99	98	92	1336	1703	314R	66
OL POLE	411611.89	0725337.94	1A	92		86	85	79	1355	1722	264L	52
TREE	411609.82	0725342.78	1A	117		111	110	104	1495	1861	137R	73
TREE	411612.40	0725342.05	1A	128		122	121	115	1624	1991	96L	80
POLE	411614.32	0725349.88	1A	85		79	78	72	2203	2570	151R	20
TREE	411614.99	0725350.62	1A	125		119	118	112	2290	2657	138R	58
TREE	411620.93	0725349.34	1A	138		132	131	125	2612	2979	380L	61
TREE	411622.09	0725351.46	1A	144		138	137	131	2811	3178	362L	61
TREE	411621.54	0725357.70	1A	106		100	99	93	3133	3500	6L	14

AIRPORT ELEVATION 13

32 C 5/ 411537.476N 0725251.050W 1311049 6/7 411539.421N 0725253.996W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LIGHT STANDARD	411600.82	0725330.84	1A	25		20	18	12	-3843	-3544	223L	19
OL ON LIGHT STANDARD	411559.22	0725328.44	1A	25		20	18	12	-3598	-3300	223L	19
OL ON LIGHT STANDARD	411557.62	0725326.02	1A	24		19	17	11	-3352	-3053	224L	18
TREE	411534.70	0725251.72	1A	33		28	26	20	146	445	245L	28
BUSH	411537.42	0725248.49	1A	23		18	16	10	151	450	125R	18
TREE	411533.37	0725247.78	1A	46		41	39	33	462	761	148L	33
TREE	411534.86	0725243.65	1A	54		49	47	41	600	899	173R	37
TREE	411532.57	0725244.10	1A	55		50	48	42	726	1025	24L	35
BUSH	411528.64	0725241.58	1A	72		67	65	59	1133	1432	197L	40
TREE	411528.18	0725233.67	1A	89		84	82	76	1619	1918	166R	42
TREE	411526.44	0725232.41	1A	99		94	92	86	1807	2106	96R	47
TREE	411524.55	0725233.52	1A	96		91	89	83	1869	2168	103L	42
TREE	411519.86	0725232.42	1A	105		100	98	92	2246	2544	405L	40
TREE	411515.94	0725219.79	1A	97		92	90	84	3232	3531	68L	3

OC0671

AIRPORT ELEVATION 13

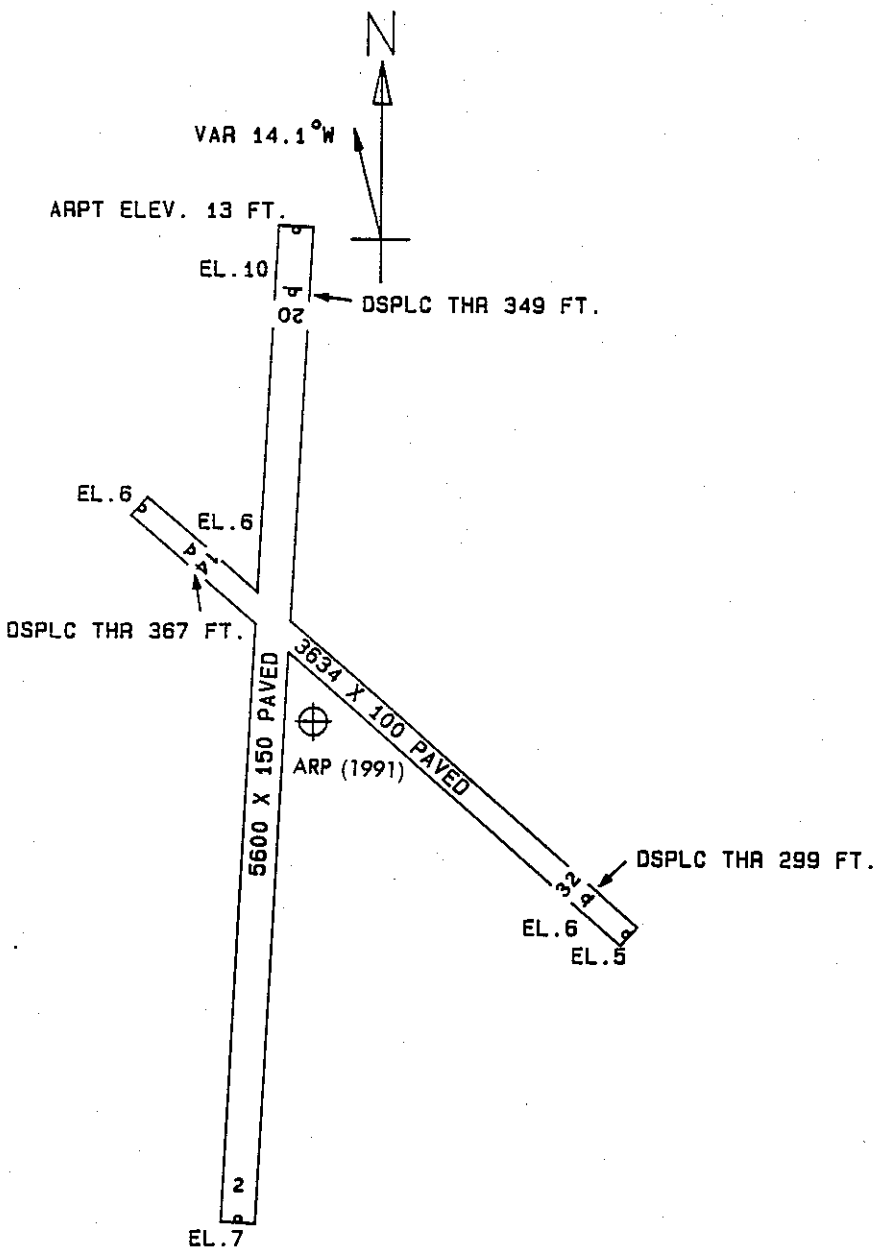
ARP 411549.154N 0725314.109W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ON VOR/DME	411543.98	0725308.31	1A	34		21	153 53	686
OL ON TOWER	411556.33	0725308.69	1A	27		14	43 47	836
TREE	411541.31	0725308.99	1A	37		24	167 54	885
ANTENNA & APBN ON OL ATCT	411556.41	0725306.97	1A	86		73	50 42	915
TREE	411538.22	0725310.56	1A	34		21	180 20	1139
TREE	411552.89	0725329.79	1A	85		72	301 39	1256
TREE	411558.67	0725329.48	1A	82		69	323 27	1518
TREE	411545.30	0725252.23	1A	59		46	117 14	1715
TREE	411532.62	0725325.71	1A	54		41	222 0	1894
TREE	411601.29	0725333.11	1A	67		54	324 21	1901
TREE	411543.13	0725246.56	1A	66		53	120 16	2191
ANTENNA ON OL BUILDING	411607.60	0725330.00	1A	73		60	341 4	2227
TREE	411526.48	0725311.70	1A	55		42	189 31	2302
POLE	411609.20	0725331.39	1A	54		41	341 3	2420
OL ON LIGHT STANDARD	411612.60	0725323.32	1A	32		19	357 35	2475
OL ON LIGHT STANDARD	411612.85	0725324.23	1A	44		31	356 14	2520
TREE	411521.69	0725327.59	1A	77		64	214 26	2964
TREE	411519.59	0725311.41	1A	57		44	190 10	3000
TREE	411618.63	0725324.08	1A	68		55	359 47	3079
TREE	411527.36	0725244.01	1A	91		78	147 54	3186
OL ON POLE	411517.32	0725328.14	1A	63		50	212 30	3395
TREE	411622.99	0725305.27	1A	84		71	25 15	3490
TREE	411513.03	0725328.75	1A	69		56	211 7	3823
OL POLE	411629.21	0725323.44	1A	164		151	4 8	4116
ANTENNA ON OL TOWER	411629.25	0725325.63	1A	220		207	1 52	4153
TREE	411508.81	0725329.90	1A	78		65	210 34	4258
TREE	411625.30	0725348.81	1A	152		139	338 11	4518
TREE	411633.51	0725326.61	1A	236		223	2 6	4590
TREE	411526.16	0725221.11	1A	99		86	134 0	4669
OL ON ANTENNA	411635.11	0725329.75	1A	250		237	359 42	4802
TREE	411632.55	0725344.72	1B	169		156	346 5	4975
TREE	411653.09	0725332.34	1B	270		257	1 58	6620
SPIRE	411641.33	0725219.82	1B	177		164	52 14	6714

AIRPORT ELEVATION 13

ARP 411549.154N 0725314.109W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
LIGHTHOUSE	411455.93	0725415.24	1B	95		82	235 1	7129
TREE	411702.88	0725333.13	1B	230		217	3 5	7602
OL ON MAST	411658.17	0725415.99	1A	300	286	287	340 2	8433
OL STACK	411701.77	0725414.46	1A	405	394	392	342 1	8675
TREE	411603.93	0725121.13	1B	194		181	94 15	8757
STANDPIPE	411647.83	0725147.47	1B	203		190	62 11	8891
TRANSMISSION TOWER	411717.74	0725223.29	1B	201		188	37 30	9770
OL ON POLE	411703.29	0725149.00	1B	249		236	54 59	9926
TREE	411704.95	0725149.81	1B	247		234	54 5	10014
TRANSMISSION TOWER	411718.79	0725214.39	1B	278		265	40 47	10154
OL ON TRANSMISSION TOWER	411733.76	0725330.32	1B	236		223	7 26	10660
TREE	411736.16	0725246.06	1B	185		172	25 17	11040
OL ON TRANSMISSION TOWER	411722.82	0725138.51	1B	301		288	51 41	11965
TREE	411744.24	0725232.89	1B	214		201	29 13	12066
TREE	411802.64	0725301.03	2C	224		211	18 20	13547
ANTENNA ON BUILDING	411751.67	0725445.28	2A	250	240	237	344 48	14221



TOUCHDOWN ZONE RUNWAY	ELEVATION
2	7
20	10
14	7
32	7

TWEED - NEW HAVEN AIRPORT

NEW HAVEN, CONNECTICUT

(NOT TO SCALE)