

RUNWAY DATA

DESCRIPTION	RUNWAY 16-34			
	RUNWAY 16		RUNWAY 34	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
DESIGN AIRCRAFT BY RUNWAY	CESSNA 208 B CARAVAN	SAME	CESSNA 208 B CARAVAN	SAME
RUNWAY DESIGN CODE (RDC)	B-II (s) - 5000	SAME	B-II (s) - 5000	SAME
APPROACH REFERENCE CODE (APRC)	B-II (s) - 5000	SAME	B-II (s) - 5000	SAME
DEPARTURE REFERENCE CODE (DPRC)	B-II (s)	SAME	B-II (s)	SAME
APPROACH VISIBILITY MINIMUMS	>1 MILE	SAME	>1 MILE	SAME
APPROACH TYPE	NON-PRECISION	SAME	NON-PRECISION	SAME
14 CFR PART 77 APPROACH CATEGORY (SLOPE)	20:1	SAME	20:1	SAME
RUNWAY IDENTIFICATION	UTILITY	SAME	UTILITY	SAME
DEPARTURE SURFACE (40:1 SLOPE)	YES	SAME	YES	SAME
AERONAUTICAL SURVEY REQUIREMENT	NOT VERTICALLY	SAME	NOT VERTICALLY	SAME
THRESHOLD SITING SURFACE RUNWAY TYPE	TYPE 2	SAME	TYPE 2	SAME
THRESHOLD SITING SURFACE PENETRATIONS	YES	SAME	YES	SAME
LINE OF SIGHT REQUIREMENT MET	YES	SAME	YES	SAME
RUNWAY LENGTH	2901'	3255'	2901'	3255'
RUNWAY WIDTH	60'	75'	60'	75'
RUNWAY SHOULDER WIDTH (EXISTING/STANDARD)	UNKNOWN/10'	10'	UNKNOWN/10'	10'
RUNWAY BLAST PAD DIMENSIONS (LENGTH X WIDTH)	231' x 60'	NONE	256' x 60'	NONE
RUNWAY END LATITUDE	48° 42' 44.32" N	48° 42' 46.21" N	48° 42' 15.70" N	48° 42' 14.09" N
RUNWAY END LONGITUDE	122° 54' 38.06" W	122° 54' 38.05" W	122° 54' 38.21" W	122° 54' 38.27" W
RUNWAY END ELEVATION	11.2'	14'	34.7'	36'
DISPLACED THRESHOLD LATITUDE	N/A	48° 42' 44.32" N	N/A	N/A
DISPLACED THRESHOLD LONGITUDE	N/A	122° 54' 38.06" W	N/A	N/A
DISPLACED THRESHOLD ELEVATION	N/A	14'	N/A	SAME
DISPLACED THRESHOLD DISTANCE	N/A	191'	N/A	SAME
RUNWAY TOUCHDOWN ZONE ELEVATION	11'	15.6'	35'	35.4'
RUNWAY HIGH POINT ELEVATION	34.7'	36'	34.7'	36'
RUNWAY LOW POINT ELEVATION	11.2'	14'	11.2'	14'
TRUE BEARING	S 1° 48' 11.75" E	SAME	S 1° 48' 11.75" E	SAME
EFFECTIVE GRADIENT	0.80%	0.68%	-0.80%	0.68%
MAXIMUM GRADIENT	1.2%	0.68%	1.2%	0.68%
PAVEMENT STRENGTH (LBS)				
PAVEMENT STRENGTH - PCN	UNKNOWN	SAME	UNKNOWN	SAME
SINGLE WHEEL	12,500	SAME	12,500	SAME
PAVEMENT SURFACE TYPE	ASPHALT	SAME	ASPHALT	SAME
PAVEMENT SURFACE TREATMENT	AFSC	SAME	AFSC	SAME
RUNWAY $\text{\textcircled{C}}$ TO PARALLEL TWY $\text{\textcircled{C}}$ SEPARATION		SEE TAXIWAY DATA TABLE		
RUNWAY $\text{\textcircled{C}}$ TO HOLDLINE SEPARATION	125'	SAME	125'	SAME
RUNWAY LIGHTING	MIRL	SAME	MIRL	SAME
RUNWAY MARKING	NPI	SAME	NPI	SAME
VISUAL APPROACH AIDS	REIL, PAPI	SAME	REIL, PAPI	SAME
INSTRUMENT APPROACH AIDS	GPS	SAME	GPS	SAME
PERCENT WIND COVERAGE - ALL WEATHER (10.5 KTS)	99.5%	SAME	99.5%	SAME
RUNWAY PROTECTION ZONE (RPZ)				
INNER WIDTH (EXISTING / STANDARD)	250' / 250'	SAME	250' / 250'	SAME
OUTER WIDTH (EXISTING / STANDARD)	450' / 450'	SAME	450' / 450'	SAME
LENGTH (EXISTING / STANDARD)	1000' / 1000	SAME	1000' / 1000	SAME
RUNWAY SAFETY AREA (RSA)				
LENGTH BEYOND RUNWAY END (EXISTING / STANDARD)	300' / 300'	SAME	300' / 300'	SAME
WIDTH (EXISTING / STANDARD)	150' / 150'	SAME	150' / 150'	SAME
RUNWAY OBJECT FREE AREA (ROFA)				
LENGTH BEYOND RUNWAY END (EXISTING / STANDARD)	300' / 300'	SAME	300' / 300'	SAME
WIDTH (EXISTING / STANDARD)	500' / 500'	SAME	500' / 500'	SAME
RUNWAY OBSTACLE FREE ZONE (OFZ)				
LENGTH BEYOND RUNWAY END (EXISTING / STANDARD)	200' / 200'	SAME	200' / 200'	SAME
WIDTH (EXISTING / STANDARD)	250' / 250'	SAME	250' / 250'	SAME

AIRPORT DATA

DESCRIPTION	EXISTING	ULTIMATE
AIRPORT REFERENCE CODE	B-II (s)	B-II (s)
MEAN MAX TEMP. OF HOTTEST MONTH	70° (JULY)	N/A
AIRPORT ELEVATION (MSL) (NAVD 88)	34.7'	36.7'
AIRPORT NAVAIDS	BEACON	SAME
APPROACH VISIBILITY MINIMUMS	LATITUDE	48° 42' 30.01" N
	LONGITUDE	112° 54' 38.16" W
MISCELLANEOUS FACILITIES (AWOS, WIND CONES, ETC.)	BEACON, AWOS, WINDCONE, RW 16 PAPI*, MIRL	SAME
DESIGN AIRCRAFT	MAKE AND MODEL	CESSNA 208 B CARAVAN
	WINGSPAN	52.08'
	UNDERCARRIAGE WIDTH	11.67'
	APPROACH SPEED (KTS)	79
MAX TAKEOFF WEIGHT (LBS)	8,000	8,000
MAGNETIC VARIATION (NOV. 2018)	0° 9' W	N/A
NPIAS SERVICE LEVEL	GA	SAME
STATE AIRPORT CLASSIFICATION	COMMUNITY	SAME

¹R 16 PAPI Owned By FAA (All other by the port)
²http://www.ncdc.noaa.gov

SHEET NOTES:
 1. HORIZONTAL DATUM IS NORTH AMERICAN DATUM (NAD 83) AND VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).

MODIFICATIONS TO STANDARDS

ITEM	EXISTING	ULTIMATE
RUNWAY 16/34	NONE	NONE
PARALLEL TAXIWAY	NONE	NONE

DECLARED DISTANCES

	EXISTING		ULTIMATE	
	RUNWAY 16	RUNWAY 34	RUNWAY 16	RUNWAY 34
TORA	2,901'	2,901'	3,255'	3,064'
TODA	2,901'	2,901'	3,255'	3,064'
ASDA	2,901'	2,901'	3,255'	3,064'
LDA	2,901'	2,901'	3,064'	3,064'

WIND DATA

RUNWAY	CROSSWIND COVERAGE			
	ALL WEATHER		IFR	
	10.5 KNOTS	13 KNOTS	10.5 KNOTS	13 KNOTS
16/34	99.55%	99.89%	99.37%	99.81%

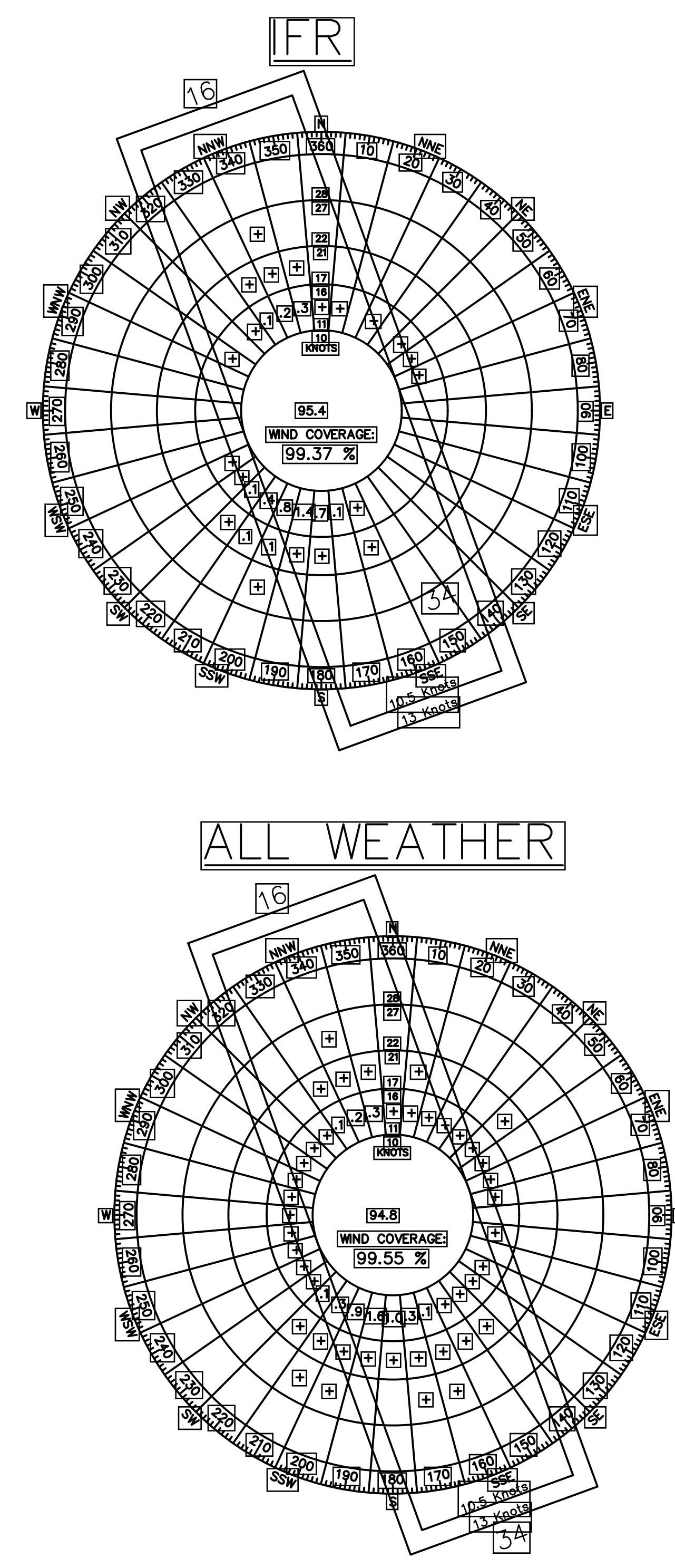
SOURCE: DATA FROM <https://airports-gis.faa.gov/windRose/windData>.
 TIME: 2008 - 2017

TAXILANE DATA TABLE

DESCRIPTION	STANDARD	EXISTING	ULTIMATE
TAXIWAY DESIGN GROUP (TDG)	1A	1A	1A
TAXILANE OBJECT FREE AREA	79'	79'	79'
TAXILANE CENTERLINE TO FIXED / MOVABLE OBJECT	39.5'	39.5'	39.5'
TAXILANE CENTERLINE TO PARALLEL TAXILANE CENTERLINE	64'	64'	64'
TAXILANE WINGTIP CLEARANCE	15'	15'	15'
TAXILANE WIDTH	25'	25'	25'
TAXILANE SAFETY AREA	49'	25'	49'

TAXIWAY DATA TABLE

DESCRIPTION	STANDARD	TAXIWAY A		TAXIWAY A1		TAXIWAY A2		TAXIWAY A3		TAXIWAY A3		TAXIWAY A4		TAXIWAY B1	
		EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
TAXIWAY DESIGN STANDARDS															
TAXIWAY DESIGN GROUP (TDG)	1A	1A	SAME	1A	SAME	1A	SAME	1A	SAME	1A	SAME	1A	SAME	1A	SAME
TAXIWAY MATERIAL		ASPHALT	SAME	ASPHALT	SAME	ASPHALT	SAME	ASPHALT	SAME	ASPHALT	SAME	ASPHALT	SAME	ASPHALT	SAME
TAXIWAY WIDTH	25'	25'	SAME	35'	SAME	45'	SAME	35'	SAME	35'	SAME	115'	SAME	25'	SAME
TAXIWAY EDGE SAFETY MARGIN (TESM)	5'	5'	SAME	5'	SAME	5'	SAME	5'	SAME	5'	SAME	5'	SAME	5'	SAME
TAXIWAY SHOULDER WIDTH	10'	10'	SAME	10'	SAME	10'	SAME	10'	SAME	10'	SAME	10'	SAME	10'	SAME
TAXIWAY LIGHTING	MITL														
RUNWAY $\text{\textcircled{C}}$ TO PARALLEL TWY $\text{\textcircled{C}}$ SEPARATION	150'	150'	240'	N/A	SAME	N/A	SAME	N/A	SAME	N/A	SAME	N/A	SAME	N/A	SAME
TAXIWAY PROTECTION															
TAXIWAY SAFETY AREA (TSA)	49'	19'	49'	19'	49'	19'	49'	19'	49'	19'	49'	19'	49'	19'	SAME
TAXIWAY OBJECT FREE AREA (TOFA)	89'	47'	89'	47'	89'	47'	89'	47'	89'	47'	89'	47'	89'	89'	SAME
WINGTIP CLEARANCE															
TAXIWAY WINGTIP CLEARANCE	20'	20'	SAME	20'	SAME	20'	SAME	20'	SAME	20'	SAME	20'	SAME	20'	SAME
TAXIWAY $\text{\textcircled{C}}$ TO FIXED OR MOVABLE OBJECT	44.5'	312'	SAME	312'	SAME	44.5'	SAME	44.5'	SAME	44.5'	SAME	44.5'	SAME	44.5'	SAME



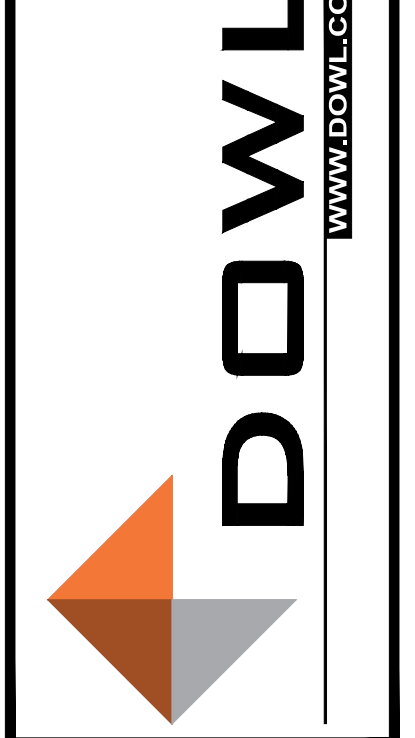
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REVISIONS

REV	DATE	DESCRIPTION

SHEET INFO

DESIGNED	EL
DRAWN	EL
CHECKED	EL
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ORCAS ISLAND AIRPORT (ORS)
 EASTSOUND, WASHINGTON
 AIRPORT LAYOUT PLAN
 AIRPORT DATA SHEET

PROJECT: 76038.01
 DATE: 2/22/21

DOWL 2017

SHEET: 2

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