RUNWAY DATA TABLE

RUNWAY DATA	RUNWAY 5/23 EXISTING		RUNWAY 5/23 ULTIMATE		RUNWAY 16/34 EXISTING		RUNWAY 16/34 ULTIMATE	
RUNWAY IDENTIFICATION	**5**	**23**	**4**	**22**	**16**	**34**	**15**	**33**
Runway Design Code (RDC)	C-IV-1200	C-IV-1200	D-V-1200	D-V-1200	C-III-5000	C-III-4000	Same	Same
Approach Runway Reference Code (APRC)	D-V-2400 / D-IV-1600	D-V-2400 / D-IV-1600	Same	Same	D-IV-5000 / D-V-5000	D-IV-4000 / D-V-4000	Same	Same
Departure Runway Reference Code (DPRC)	D-IV / D-V		Same		D-IV/D-V		Same	
Critical Aircraft	Boeing 757-200W (C-IV, TDG 4)		Boeing 787-8 (D-V, TDG 5)		Boeing 737-700 (C-III, TDG 3)		Same	
PAVEMENT STRENGTH & MATERIAL TYPE								
Pavement Surface Type	Asphalt		Same		Asphalt		Same	
Single Wheel (lbs) x 1,000	120		Same		120		Same	
Dual Wheel (lbs) x 1,000	250		Same		250		Same	
Dual Tandem (lbs) x 1,000	550		Same		423		Same	
Double Dual Tandem (lbs) x 1,000	1,120		Same		1,093		Same	
PCN	75/F/A/W/T		Same		75/F/A/W/T		Same	
Pavement Surface Treatment	Grooved		Same		Grooved		Same	
Effective Gradient (%)	0.10%		Same		0.34%		Same	
Percent Wind Coverage	99.64% (All Weather - 20 Knots)		N/A		99.36% (All Weather - 20 Knots)		N/A	
Runway Length	8,700		Same		6,081		Same	
Runway Width (Actual / Standard)	(150 / 150)		Same		(150 / 150)		Same	
RUNWAY END COORDINATES (NAD 83)								
Latitude	41° 42' 36.94" N	41° 43' 49.6968" N	Same	Same	41° 43' 53.96" N	41° 43' 06.88" N	Same	Same
Longitude	71° 26' 16.62" W	71° 25' 15.5323" W	Same	Same	71° 25' 55.83" W	71° 25' 06.00" W	Same	Same
Runway End Elevation	53.0	44.3	Same	Same	53.7	32.8	Same	Same
Runway Lighting	HIRL		Same		HIRL		Same	
Runway Marking	Precision	Precision	Same	Same	Precision	Precision	Same	Same
DISPLACED THRESHOLD COORDINATES (NAD 83)								
Displaced Threshold (From Rwy End)	N/A	N/A	Same	Same	565	N/A	Same	Same
Latitude	N/A	N/A	Same	Same	41° 43' 49.58" N	N/A	Same	Same
Longitude	N/A	N/A	Same	Same	71° 25' 51.20" W	N/A	Same	Same
Displaced Threshold Elevation (NAVD 88)	N/A	N/A	Same	Same	54.0	N/A	Same	Same
RUNWAY SAFETY AREA (RSA)								
Length Beyond Runway (Actual / Standard)	(920 / 1000)	(671 / 1000)	Same	Same	(496 / 1000)	(290 / 1000)	Same	Same
Length Prior to Threshold (Actual / Standard)	(600 / 600)	(600 / 600)	Same	Same	(600 / 600)	(496 / 600)	Same	Same
Width (Actual / Standard)	(500 / 500)		Same	Same	(500 / 500)		Same	
APPROACH RUNWAY PROTECTION ZONE (RPZ)								
Length	2,500		Same	Same	1,700	1,700	Same	Same
Inner Width	1000		Same	Same	500	1,000	Same	Same
Outer Width	1,750		Same	Same	1,010	1,510	Same	Same
DEPARTURE RUNWAY PROTECTION ZONE (RPZ)								
Length	1,700		Same	Same	1,700		Same	Same
Inner Width	500		Same	Same	500		Same	Same
Outer Width	1,010		Same	Same	1,010		Same	Same
FAR PART 77								
Approach Category	PIR	PIR	Same	Same	C	PIR	Same	Same
Approach Slope	50:1	50:1	Same	Same	34:1	50:1	Same	Same
Approach Type	Precision	Precision	Same	Same	Non-Precision	Precision	Same	Same
Visibility Minimums (RVR)	0 (CAT IIIc)	1200	Same	Same	5000	4000	Same	Same
Type of Aeronautical Survey Required	VGS	VGS	Same	Same	NVGS	VGS	Same	Same
RUNWAY OBJECT FREE AREA (ROFA)								
Length Beyond Runway End (Actual / Standard)	(807 / 1000)	(671 / 1000)	Same	Same	(496 / 1000)	(290 / 1000)	Same	Same
Length Prior to Threshold (Actual / Standard)	(600 / 600)	(600 / 600)	Same	Same	(600 / 600)	(496 / 600)	Same	Same
Width (Actual / Standard)	(800 / 800)		Same		(800 / 800)		Same	
RUNWAY OBSTACLE FREE ZONE (OFZ)								
Length Beyond Runway	200		Same		200		Same	
Width	400		Same		400		Same	
PRECISION OBSTACLE FREE ZONE (POFZ)								
Length Beyond Runway	200	200	Same	Same	N/A	N/A	Same	Same
Width	800	800	Same	Same	N/A	N/A	Same	Same
INNER-APPROACH OBSTACLE FREE ZONE (IA-OFZ)								
Length Beyond Runway	2,400.2	2,443.2	Same	Same	N/A	2,349.7	Same	Same
Width	400	400	Same	Same	N/A	400	Same	Same
INNER-TRANSITIONAL OBSTACLE FREE ZONE (IT-OFZ)								
Length Beyond Runway	2,400.2	2,443.2	Same	Same	N/A	N/A	Same	Same
Width (Start)	1,687.5	1,789.1	Same	Same	N/A	N/A	Same	Same
Width (End)	1,134.1	1,210.2	Same	Same	N/A	N/A	Same	Same
OBSTACLE CLEARANCE SURFACES (OCS) FAA ENGINEERING BRIEF NO. 99								
Approach Surfaces	Type 5 (34:1), Type 6 (30:1)	Type 5 (34:1), Type 6 (30:1)	Same	Same	Type 4 (20:1)	Type 4 (20:1)	Same	Same
Departure Surface (Table 3-2, Type 7)	Yes (40:1)	Yes (40:1)	Same	Same	Yes (40:1)	Yes (40:1)	Same	Same
Penetrations	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Visual NAVAIDS	PAPI, ALSF2, REIL	VASI, MALSR	Same	PAPI, MALSR	PAPI, REIL	PAPI, MALSR	Same	Same
Electronic Approach Aids	ILS/LOC, VOR, RNAV	ILS/LOC, VOR/DME, RNAV	ILS/LOC, RNAV	ILS/LOC, RNAV	VOR/DME, RNAV	ILS/LOC, VOR, RNAV	RNAV	ILS/LOC, RNAV
Runway Touchdown Zone Elevation (NAVD 88)	53.1	50.4	Same	Same	54.0	49.9	Same	Same
Vertical Datum	NAVD 88		Same		NAVD 88		Same	
Horizontal Datum	NAD 83		Same		NAD 83		Same	

ULTIMATE TAXIWAY DATA TABLE

DESIGNATION (PREVIOUS DESIGNATION)	A	B	B1	B2	B3	C (W of RW 5/23, ULT RW 4/22)	C (E of RW 5/23, ULT RW 4/22)	C1	C2	C3(C1)	C4	E	F	G	G1
Airplane Design Group (ADG)	IV	V	V	V	V	V	III	V	V	III	III	IV	IV	IV	V
Taxiway Design Group (TDG)	5	5	5	5	5	5	4	5	5	4	4	5	5	5	5
Width	75	75	75	75	75	75	50	75	75	50	50	75	75	75	75
Taxiway/Taxilane Safety Area Dimensions	171	214	214	214	214	214	118	214	214	118	118	171	171	171	214
Taxiway/Taxilane Object Free Area Dimensions	259	320	320	320	320	320	186	320	320	186	186	259	259	259	320
Obstructions in Safety Areas	No	No	No	No	No	No	Yes	No	No	No	No	No	No	Yes	No
Shoulder Width	30	25/30	30	30	25	30	20	30	30	20	20	25	30	30	30
Taxiway/Taxilane Separation	N/A	N/A	N/A	N/A	N/A	267	N/A	N/A	N/A	N/A	N/A	N/A	N/A	245	N/A
Lighting	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS

DESIGNATION (PREVIOUS DESIGNATION)	G2	Txl H	Txl H1	Txl H2	M	M1	M2	M3	M4(A)	N	Txl N	P(N)	S	Txl S	T	Txl T	V	Txl V	W(T)	Txl W(T)	Y(V)	Txl Y(V)
Airplane Design Group (ADG)	V	V	V	V	V	V	V	V	V	IV	III	V	IV	IV	V	III	V	V	V	V	V	V
Taxiway Design Group (TDG)	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	4	5	5	5	5	5	5
Width	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	50	75	75	75	75	75	75
Taxiway/Taxilane Safety Area Dimensions	214	214	214	214	214	214	214	214	214	171	118	214	171	171	214	118	214	214	214	214	214	214
Taxiway/Taxilane Object Free Area Dimensions	320	276	276	276	320	320	320	320	320	259	186	320	259	225	320	162	320	276	320	276	320	276
Obstructions in Safety Areas	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Shoulder Width	30	30	30	30	25/30	30	30	30	25	25/30	20/25	30	30	30	30	20	30	30	30	30	30	30
Taxiway/Taxilane Separation	N/A	245	N/A	267	245	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	245	N/A	245	245	245	245	245	245
Lighting	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS

AIRPORT DATA TABLE

AIRPORT DATA	EXISTING	ULTIMATE
Airport Elevation (MSL) (NAVD 88)	54.0	Same
Airport Reference Point (NAD 83)		
Latitude	41° 43' 20.40 N	Same
Longitude	71° 25' 39.80 W	Same
Mean Max Temperature of Hottest Month	82.8°F (July)	N/A
Electronic NAVAIDS	ILS, LOC, VOR/DME, RNAV(GPS)	ILS, LOC, RNAV(GPS)
Visual NAVAIDS	PAPI, VASI, ALSF2, MALSR, REIL, Beacon	Same
Magnetic Variation	14.31° W ± 0.36°	N/A
Date of Magnetic Variation	7/1/2018	N/A
Source of Magnetic Variation	NGDC NOAA	N/A
NPIAS Service Level	Small Hub	Same
State Service Level	Primary Service, Medium Hub	Same
Airport Reference Code	C-IV	D-V
Critical Aircraft	Boeing 757-200W	Boeing 787-8
Wingspan	134.8	197.24
Main Gear Wheel Span	28.2	38.06
Approach Speed	137	143

NON-STANDARD CONDITIONS

NO.	EXISTING CONDITION	PROPOSED DISPOSITION
1	Airport Road and airport perimeter fence are within the east end of the Runway 5/23 (ULT Runway 4/22) RSA and ROFA.	To Remain
2	Main Ave. and airport perimeter fence are within the west end of the Runway 5/23 (ULT Runway 4/22) RSA and ROFA.	To Remain
3	Airport Road and several buildings within the Runway 23 (ULT Runway 22) end RPZs.	To Remain
4	Main Ave. and residential buildings within the Runway 5 (ULT Runway 4) end RPZs.	To Remain
5	Airport Road and airport perimeter fence are within the north end of the Runway 16/34 (ULT Runway 15/33) RSA and ROFA.	Existing Runway 16 (ULT Runway 15) end EMAS to remain.
6	Airport perimeter fence within the south end of the Runway 16/34 (ULT Runway 15/33) RSA and ROFA.	To Remain
7	Several public roads and buildings within the Runway 16 (ULT Runway 15) end RPZs.	To Remain

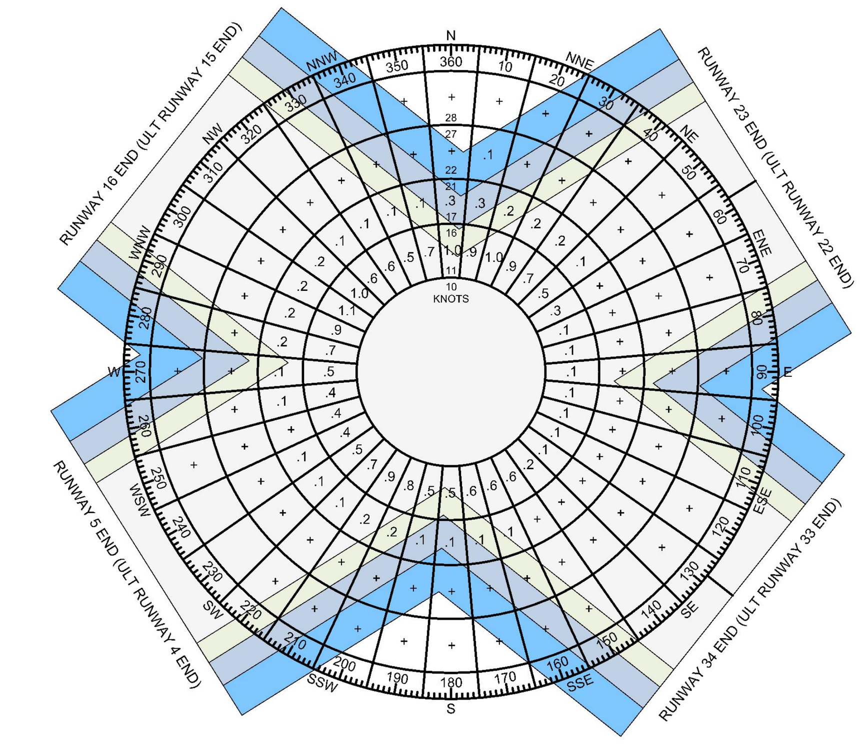
EXISTING TAXIWAY DATA TABLE

DESIGNATION	A	B	C	C1	E	F	M	M1	M2	N	S	T	V
Taxiway Design Group (TDG)	4	4	4	4	4	4	4	4	4	4	4	4	4
Width	75	75	75	60	75	75	75	75	80	75	80	75	75
Taxiway Safety Area Dimensions	171	171	171	171	171	171	171	171	171	171	171	171	171
Taxiway Object Free Area Dimensions	259	259	259	259	259	259	259	259	259	259	259	259	259
Obstructions in Safety Areas	No	No	No	No	No	No	No	No	No	No	No	No	No
Shoulder Width	25	25	15	15	25	15	25/30	30	30	20/25	25	25	15
Taxiway/Taxilane Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	250	250
Lighting	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS	HITLS

DECLARED DISTANCES

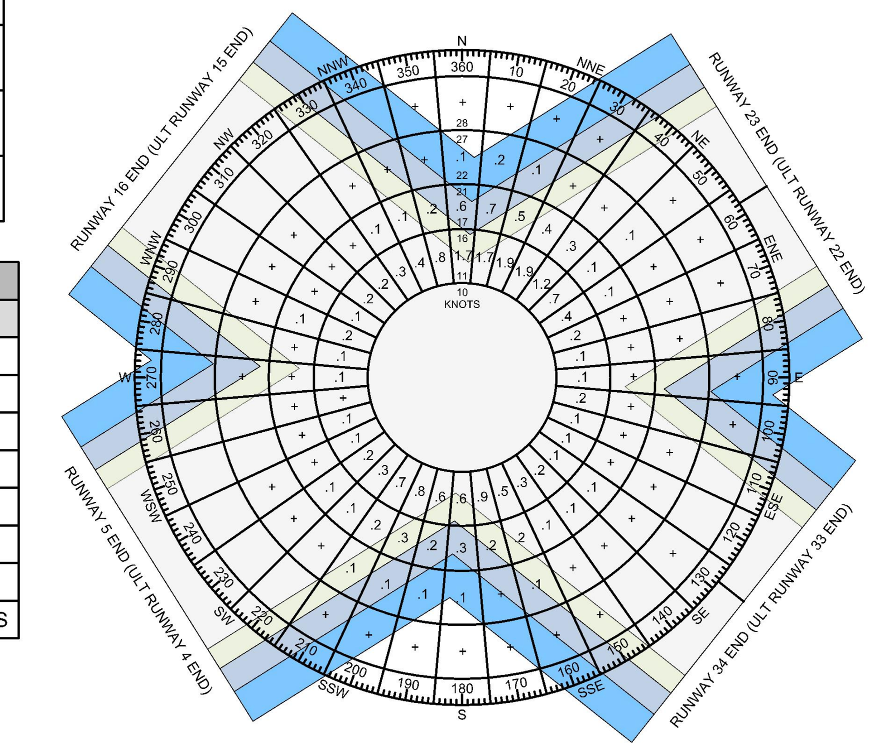
RUNWAY END ID	TORA	TODA	ASDA	LDA
5 (ULT RUNWAY 4)	8,700	8,700	8,700	8,700
23 (ULT RUNWAY 22)	8,700	8,700	8,700	8,700
16 (ULT RUNWAY 15)	6,081	6,081	6,081	5,516
34 (ULT RUNWAY 33)	6,081	6,081	6,081	6,081

Notes:
1. Wind data reported at PVD for the period between 2008-2017 and provided by the National Oceanic & Atmospheric Administration, National Climatic Data Center.
2. All quantities are listed in feet unless otherwise noted.



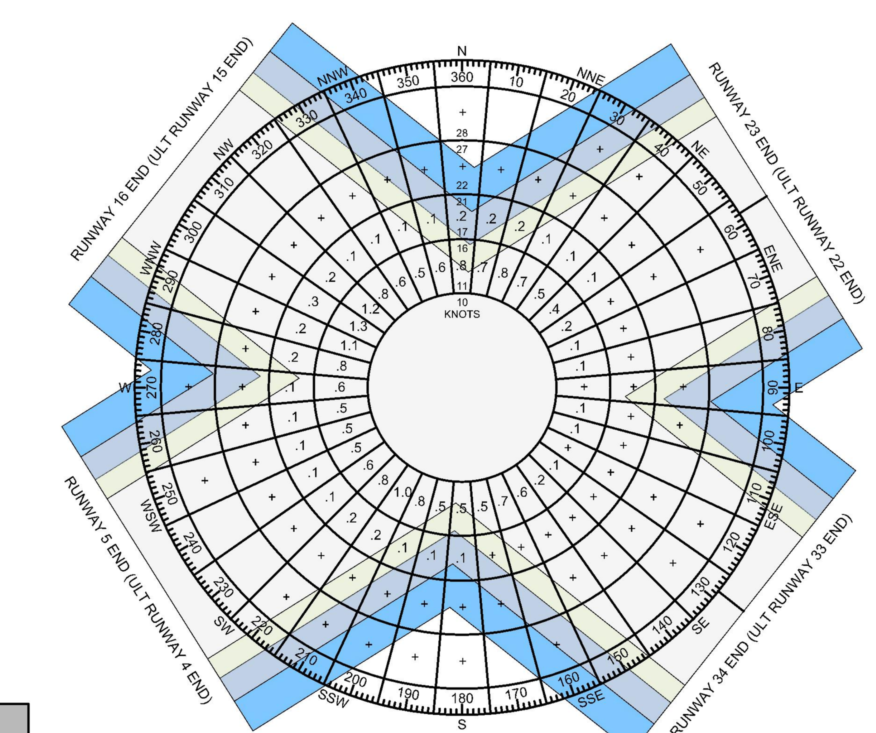
ALL WEATHER WIND COVERAGE

CROSSWIND COMPONENT	PERCENT COVERAGE: RUNWAY 5/23 ULT RUNWAY 4/22	PERCENT COVERAGE: RUNWAY 16/34 ULT RUNWAY 15/33	PERCENT COVERAGE: COMBINED
10.5 Knots	88.32%	87.60%	96.43%
13 Knots	93.66%	92.66%	98.79%
16 Knots	98.23%	97.55%	99.65%
20 Knots	99.64%	99.36%	99.94%



VFR WIND COVERAGE

CROSSWIND COMPONENT	PERCENT COVERAGE: RUNWAY 5/23 ULT RUNWAY 4/22	PERCENT COVERAGE: RUNWAY 16/34 ULT RUNWAY 15/33	PERCENT COVERAGE: COMBINED
10.5 Knots	88.34%	88.66%	97.20%
13 Knots	93.80%	93.44%	99.20%
16 Knots	98.49%	97.97%	99.81%
20 Knots	99.75%	99.52%	99.98%



IFR WIND COVERAGE

CROSSWIND COMPONENT	PERCENT COVERAGE: RUNWAY 5/23 ULT RUNWAY 4/22	PERCENT COVERAGE: RUNWAY 16/34 ULT RUNWAY 15/33	PERCENT COVERAGE: COMBINED
10.5 Knots	87.88%	82.70%	93.16%
13 Knots	92.98%	89.12%	97.10%
16 Knots	97.18%	95.68%	99.05%
20 Knots	99.23%	98.70%	99.81%

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Green Airport

AIRPORT LAYOUT PLAN UPDATE
THEODORE FRANCIS GREEN STATE AIRPORT
RHODE ISLAND AIRPORT CORPORATION

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	I08.004.002
DATE:	MAY 2021
DRAWN BY:	J.J. SHURER
DESIGNED BY:	J.J. SHURER
CHECKED BY:	S. TUMOLO

AIRPORT DATA SHEET