

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet. MSL. Altitudes are minimum altitudes unless otherwise indicated.

Distances are in nautical miles (NM). Graphic depiction attached.

Arrival Name FRDMM (RNAV)	Number THREE	STAR Computer Code ALWYZ.FRDM3	Superseded Number TWO	Dated 27 JUNE 2013	Effective Date 30 APR 2015
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
BUCKO	BUCKO.FRDM3	BUCKO	BUCKO						AT FL310
			DRRON	104.74	12.41	17000	5500		BETWEEN FL270 AND FL310
			HONNR	104.91	15.19	17000	6000		BETWEEN FL240 AND FL280 AT 280 KT
			BRVRY	105.19	12.79	17000	5800		BETWEEN FL220 AND FL260
			COURG	106.02	11.00	17000	5300		BETWEEN FL200 AND FL230 AT 280 KT
			PLDGE	106.16	17.06	13000	5100		BETWEEN 15000 AND 17000 AT 280 KT
			WEWIL	116.61	12.35	12000	4900		AT/ABOVE 14000
			NEVVR	117.09	06.03	11000	3900		AT/ABOVE 12000
			FORGT	117.17	06.71	10000	4200		AT/ABOVE 11000 AT 250 KT
			SEPII	117.25	05.00	8000	4000		AT/ABOVE 10000 AT 250 KT
			ALWYZ	117.32	04.89	8000	3400		AT/BELOW 10000

ARRIVAL ROUTE DESCRIPTION:

LANDING KDC A:

RWY 01, RWY 04, RWY 33: FROM ALWYZ ON TRACK 123.19/10.47 TO CROSS LETZZ AT 8000 (MEA 5000/MOCA 3400), THEN ON TRACK 128.06/7.78 TO CROSS RLLLL AT 6000 AND AT 250 KIAS (MEA 4000/MOCA 2600), THEN ON TRACK 128.89/10.39 TO VCTRY (MEA 2100), THEN ON TRACK 186.50/8.10 TRACK TO HEROO (MEA 2000/MOCA 1500), THEN ON TRACK 186.50. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

RWY 19, RWY 15, RWY 22: FROM ALWYZ ON TRACK 119.66/6.88 TO CROSS FRDMM AT 8000 AND AT 240 KIAS (MEA 6000/MOCA 3400), THEN ON TRACK 075.78/9.38 TO STAND (MEA 4000/MOCA 2700), THEN ON TRACK 075.67/4.73 TO TGTHR (MEA 3000/MOCA 1800), THEN ON TRACK 145.60/4.04 TO FERGI (MEA 2100). EXPECT LDA/DME RWY19, RNAV/RNP RWY 19, RIVER VISUAL RWY 19 OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KDAA: FROM ALWYZ ON TRACK 123.19/10.47 TO CROSS LETZZ AT 8000 (MEA 5000/MOCA 3400), THEN ON TRACK 128.06/7.78 TO CROSS RLLLL AT 6000 AND AT 250 KIAS (MEA 4000/MOCA 2600), THEN ON TRACK 128.89/10.39 TO VCTRY (MEA 2100), THEN ON TRACK 186.50/8.10 TRACK TO HEROO (MEA 2000/MOCA 1500), THEN ON TRACK 186.50. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KADW: RWY 19R, RWY 19L: FROM ALWYZ ON TRACK 119.66/6.88 TO CROSS FRDMM AT 8000 AND AT 240 KIAS (MEA 6000/MOCA 3400), THEN ON TRACK 075.78/9.38 TO STAND (MEA 4000/MOCA 2700), THEN ON TRACK 075.78/4.73. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KADW RWY 01L, RWY 01R: FROM ALWYZ ON TRACK 123.19/10.47 TO CROSS LETZZ AT 8000 (MEA 5000/MOCA 3400), THEN ON TRACK 128.06/7.78 TO CROSS RLLLL AT 6000 AND AT 250 KIAS (MEA 4000/MOCA 2600), THEN ON TRACK 128.89/10.39 TO VCTRY (MEA 2100), THEN ON TRACK 186.50/8.10 TRACK TO HEROO (MEA 2000/MOCA 1500), THEN ON TRACK 186.50. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: TURBOJETS ONLY, TURBOPROPS AS ASSIGNED BY ATC ONLY.

NOTE: PROHIBITED (P56) 1.5 NM NORTH OF DCA AVOID SURFACE TO 18,000 MSL, DME/DME/IRU OR GPS REQUIRED.

NOTE: Maintain last assigned altitude until cleared to "DESCEND VIA" the FRDMM3. ARTCC will issue landing direction assignment (North or South) and Potomac TRACON will issue runway assignments.



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Distances are in nautical miles (NM). Graphic depiction attached.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
FRDMM (RNAV)	THREE	ALWYZ.FRDMM3	TWO	27 JUNE 2013	30 APR 2015

FIXES AND/OR HOLDING PATTERNS:

CHART: KDCA, KDAA, KADW. PROHIBITED AREAS P56A & P56B. CHART HOLDING AT: PLDGE, HOLD NW, LT, 106.16 INBOUND, 10 NM LEGS, AT 250 KIAS. FORGT, HOLD NW, LT, 117.17 INBOUND, 10 NM LEGS, AT 250 KIAS. ALWYZ, HOLD NW, LT, 117.32 INBOUND, 6 NM LEGS, AT 210 KIAS. MGW, HOLD NW, LT, 127.25 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

PCT APP CON 118.67/323.175, RONALD REAGAN NATIONAL ATIS 132.65. JOINT BASE ANDREWS ATIS 113.1/251.05. DAVISON AAF ATIS 128.175/230.0.

AIRPORTS SERVED:

RONALD REAGAN WASHINGTON NATIONAL, WASHINGTON, DC
DAVISON ARMY AIRFIELD, FT BELVIER, VA
JOINT BASE ANDREWS, WASHINGTON, DC

LOST COMMUNICATIONS PROCEDURE:**REMARKS:****ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: SAT (RNP 2.0).
REFERENCE MAGNETIC VARIATION = KDCA 09W/1985

CHANGES:

- 1). FERGI WAYPOINT MOVED LESS THAN A MILE FOR OPERATIONAL PURPOSES.
- 2). PROCEDURE TO BE PUBLISHED CONCURRENT WITH KDCA RNAV/RNP RWY 19.
- 3). NOTES AMENDED.
- 4). MOCAS ADDED.

REASONS:

- 1-3). ATC REQUEST.
- 4). IAW JO 7100.9E

12/04/2014: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/31/2014.
1. ADDED "MOCAS ADDED" TO CHANGES.

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STAR (DATA RECORD)

Arrival Name FRDMM (RNAV)	Number THREE	STAR Computer Code ALWYZ.FRDM3	Superseded Number TWO	Dated 27 JUNE 2013	Effective Date 30 APR 2015
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
BUCKO	391737.82N / 0794930.10W	Y		IF			AT FL310		BUCKO.FRDM3
DRRON	391622.12N / 0793335.86W	Y	FB	TF	095.74	12.41	FL270BFL310		
HONNR	391446.59N / 0791408.91W	Y	FB	TF	095.91	15.19	FL240BFL280	AT 280K	
BRVRY	391322.68N / 0785747.18W	Y	FB	TF	096.19	12.79	FL220BFL260		
COURG	391201.14N / 0784344.52W	Y	FB	TF	097.02	11.00	FL200BFL230	AT 280K	
PLDGE	390951.33N / 0782158.72W	Y	FB	TF	097.16	17.06	15000B17000	AT 280K	
WEWIL	390605.98N / 0780651.76W	Y	FB	TF	107.61	12.35	AT/ABOVE 14000		
NEVVR	390413.29N / 0775930.17W	Y	FB	TF	108.09	06.03	AT/ABOVE 12000		
FORGT	390207.34N / 0775119.25W	Y	FB	TF	108.17	06.71	AT/ABOVE 11000	AT 250K	
SEPII	390033.12N / 0774513.74W	Y	FB	TF	108.25	05.00	AT/ABOVE 10000	AT 250K	
ALWYZ	385900.66N / 0773916.54W	Y	FB	TF	108.32	04.89	AT/BELOW 10000		

Runway Transition									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000		ALWYZ.FRDM3
LETZZ	385442.36N / 0772702.40W	Y	FB	TF	114.19	10.47	AT 8000		
RLLLL	385055.11N / 0771820.23W	Y	FB	TF	119.06	07.78	AT 6000	AT 250K	
VCTRY	384543.63N / 0770649.28W	Y	FB	TF	119.89	10.39			
HEROO	383737.42N / 0770622.27W	Y	FO	TF	177.50	08.10			
KDAA				FM	177.50				RECOMMENDED NAVAID: PPM VOR/DME

Runway Transition									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000		ALWYZ.FRDM3
LETZZ	385442.36N / 0772702.40W	Y	FB	TF	114.19	10.47	AT 8000		
RLLLL	385055.11N / 0771820.23W	Y	FB	TF	119.06	07.78	AT 6000	AT 250K	
VCTRY	384543.63N / 0770649.28W	Y	FB	TF	119.89	10.39			
HEROO	383737.42N / 0770622.27W	Y	FO	TF	177.50	08.10			
KADW:RWY 01L, 01R				FM	177.50				RECOMMENDED NAVAID: PPM VOR/DME

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STAR (DATA RECORD)

Arrival Name FRDMM (RNAV)	Number THREE	STAR Computer Code ALWYZ.FRDMM3	Superseded Number TWO	Dated 27 JUNE 2013	Effective Date 30 APR 2015
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Runway Transition									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000		ALWYZ.FRDMM3
FRDMM	385634.54N / 0773101.39W	Y	FB	TF	110.66	06.88	AT 8000	AT 240K	
STAND	390016.17N / 0771957.84W	Y	FB	TF	066.78	09.38			
TGTHR	390208.41N / 0771423.69W	Y	FB	TF	066.67	04.73			
FERGI	385912.16N / 0771050.18W	Y	FB	TF	136.60	04.04			

**KDCA:RWY 15,RWY
19,RWY 22**

Runway Transition									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000		ALWYZ.FRDMM3
LETZZ	385442.36N / 0772702.40W	Y	FB	TF	114.19	10.47	AT 8000		
RLLLL	385055.11N / 0771820.23W	Y	FB	TF	119.06	07.78	AT 6000	AT 250K	
VCTRY	384543.63N / 0770649.28W	Y	FB	TF	119.89	10.39			
HEROO	383737.42N / 0770622.27W	Y	FO	TF	177.50	08.10			
KDCA:RWY 01,RWY 04,RWY 33				FM	177.50				RECOMMENDED NAVAID: PPM VOR/DME

Runway Transition									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000		ALWYZ.FRDMM3
FRDMM	385634.54N / 0773101.39W	Y	FB	TF	110.66	06.88	AT 8000	AT 240K	
STAND	390016.17N / 0771957.84W	Y	FO	TF	066.78	09.38			
KADW:RWY 19L, 19R				FM	066.67				RECOMMENDED NAVAID: PPM VOR/DME

