U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HYLND	THREE	HYLND3.HYLND	TWO	18 NOV 10	07 MAR 2013

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 4R: CLIMB HEADING 035.74 TO 520, THEN DIRECT NHANT, THEN ON TRACK 092.09 TO CROSS HURBE AT OR ABOVE 4000, THENCE...
TAKEOFF RWY 9: CLIMB HEADING 092.56 TO 520, THEN DIRECT CLAWW, CROSS CLAWW AT OR ABOVE 4000, THENCE...
TAKEOFF RWY 15R: CLIMB HEADING 151.16 TO INTERCEPT COURSE 132.00 TO FOXXX, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 22L: CLIMB HEADING 215.74 TO INTERCEPT COURSE 140.00 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 22R: CLIMB HEADING 215.74 TO INTERCEPT COURSE 144.40 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 27: CLIMB HEADING 272.58 TO INTERCEPT COURSE 235.00 TO KIRAA, THENCE...
TAKEOFF RWY 33L: CLIMB HEADING 331.18 TO INTERCEPT COURSE 314.00 TO TEKKK, THEN ON TRACK 354.00 TO CROSS CAMWI AT OR ABOVE 4000, THENCE...

...ON DEPICTED ROUTE TO HYLND. MAINTAIN 5000 OR LOWER ASSIGNED ALTITUDE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: RNAV 1.
NOTE: FOR TURBOJETS ONLY.
NOTE: DEPARTURE HDG/RNAV TRACKS/VECTORS ARE PREDICATED ON AVOIDING NOISE SENSITIVE AREAS. FLIGHT CREW AWARENESS AND COMPLIANCE IS IMPORTANT IN MINIMIZING NOISE IMPACTS ON SURROUNDING COMMUNITIES.
NOTE: RWY 15R, 22L, 22R: DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL.
NOTE: AT/BELOW 250K UNTIL BOATT.

TAKEOFF **MINIMUMS: RWY 4L, 14, 15L, 32, 33R,** NA-ATC.
RWY 4R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3600.
RWY 9, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 4000.
RWY 15R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.
RWY 22L, 300-1 WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, OR STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520 IF TOWER REPORTS NO TALL VESSELS IN THE DEPARTURE AREA.
RWY 22R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.
RWY 27, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1300.
RWY 33L, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 3100.

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HYLND	THREE	HYLND3.HYLND	TWO	18 NOV 10	07 MAR 2013

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 4R, SHIPS BEGINNING 579 FT FROM DER, ON CENTERLINE, UP TO 50 FT AGL/50 FT MSL. POLE AND TREES BEGINNING 1806 FT FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/79 FT MSL.
NOTE: RWY 9, SHIPS 762 FT FROM DER, ON CENTERLINE, UP TO 65 FT AGL/65 FT MSL. TANK 5904 FT FROM DER, 1453 FT LEFT OF CENTERLINE, 109 FT AGL/206 FT MSL.
NOTE: RWY 15R, SIGN 45 FT FROM DER, 267 FT RIGHT OF CENTERLINE, 6 FT AGL/16 FT MSL.
NOTE: RWY 22L, POLE 394 FT FROM DER, ON CENTERLINE, 15 FT AGL/31 FT MSL. TOWER 3585 FT FROM DER, 926 FT LEFT OF CENTERLINE, 108 FT AGL/128 FT MSL. MOBILE CRANE 3675 FT FROM DER, 439 FT RIGHT OF CENTERLINE, 122 FT AGL/145 FT MSL. SHIP RIG 2440 FT FROM DER, 34 FT LEFT OF CENTERLINE, 176 FT AGL/176 FT MSL.
NOTE: RWY 22R, SHIP RIG 4064 FT FROM DER, 8 FT RIGHT OF CENTERLINE, 176 FT AGL/176 FT MSL. STACKS BEGINNING 1.4 NM FROM DER, 2795 FT RIGHT OF CENTERLINE, UP TO 320 FT AGL/335 FT MSL.
NOTE: RWY 27, LIGHT POLE AND ROD BEGINNING 1690 FT FROM DER, 759 FT RIGHT OF CENTERLINE, UP 60 FT AGL/100 FT MSL.
NOTE: RWY 33L, ELECTRICAL SYSTEMS, BUILDINGS, CHIMNEY ON BUILDING, AND TANK BEGINNING 796 FT FROM DER, 603 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/149 FT MSL. SIGN, WIND INDICATOR ON TOWER, AND TREES BEGINNING 248 FT FROM DER, 51 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/101 FT MSL. BRIDGE 1.4 NM FROM DER, 2568 FT LEFT OF CENTERLINE, 262 FT AGL/262 FT MSL.

CONTROLLING OBSTACLES:

RWY 9: 206 MSL TANK 422204.30N/0705803.73W.
RWY 22L: 176 MSL SHIP RIG 422041.00N/0710053.00W.
RWY 22R: 176 MSL SHIP RIG 422051.00N/0710110.00W.
RWY 27: 639 MSL BLDG 422120.28N/0710307.73W. 920 MSL BLDG 422050.00N/0710457.00W.
RWY 33L: 262 MSL BRIDGE 422308.76N/0710248.14W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KBOS 16W EPOCH YEAR: 95. DME/DME ASSESSMENT: SAT (RNP 2.0).

AIRPORTS SERVED:

GENERAL EDWARD LAWRENCE LOGAN INTL BOSTON, MA

COMMUNICATIONS:

ATIS, CLEARANCE DELIVERY, GROUND CONTROL, TOWER, DEPARTURE CONTROL

FIXES AND/OR NAVAIDS:

BOATT, CORRT, GLOWB, HEARR, HRALD, MARBB, MHT VOR/DME, SHAAN, STAYC.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HYLND	THREE	HYLND3.HYLND	TWO	18 NOV 10	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW04R (AER)*	422114.55N/0710037.27W*	N	-	-	-	-			*DISPL THLD (1154.0 FT)
520 MSL	-	-	-	VA	019.74	-			CG 500 FT/NM TO 3600
NHANT	422623.24N/0705759.97W	Y	FB	DF	-	-			
HURBE	422738.74N/0705107.04W	Y	FB	TF	076.09	5.25	AT/ABOVE 4000		
STAYC	423028.20N/0704729.61W	Y	FB	TF	043.50	3.89			
SHAAN	423447.62N/0704939.40W	Y	FB	TF	339.71	4.61			
HYLND	424651.12N/0711631.08W	Y	FB	TF	301.47	23.19			
RW09 (AER)	422120.72N/0710046.42W	N	-	-	-	-			
520 MSL	-	-	-	VA	076.56	-			CG 500 FT/NM TO 4000
CLAWW	422325.27N/0704847.67W	Y	FB	DF	-	-	AT/ABOVE 4000		
CORRT	422645.35N/0704535.21W	Y	FB	TF	035.46	4.09			
STAYC	423028.20N/0704729.61W	Y	FB	TF	339.20	3.97			
HYLND	424651.12N/0711631.08W	Y	FB	TF	307.56	26.96			
RW15R (AER)*	422221.20N/0710056.13W*	N	-	-	-	-			*DISPL THLD (881.0 FT)
-	422026.20N/0705822.01W	-	-	VI	135.16	2.70		AT/BELOW 210K	CG 500 FT/NM TO 520
FOXXX	421855.28N/0705410.54W	Y	FB	CF	116.00	3.46			VI CF PERMITTED
BOATT	422031.61N/0704513.67W	Y	FB	TF	076.36	6.83		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
HEARR	422649.28N/0704235.12W	Y	FB	TF	017.27	6.59			
MARBB	423200.65N/0704557.30W	Y	FB	TF	334.35	5.76			
HYLND	424651.12N/0711631.08W	Y	FB	TF	303.51	26.99			
RW22L (AER)*	422225.69N/0710002.84W*	N	-	-	-	-			*DISPL THLD (1199.0 FT)
-	422004.85N/0710110.98W	-	-	VI	199.74	2.49		AT/BELOW 210K	CG 500 FT/NM TO 520
TJAYY	421818.19N/0705737.75W	Y	FB	CF	124.00	3.18			VI CF PERMITTED
BOATT	422031.61N/0704513.67W	Y	FB	TF	076.35	9.46		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
HEARR	422649.28N/0704235.12W	Y	FB	TF	017.27	6.59			
MARBB	423200.65N/0704557.30W	Y	FB	TF	334.35	5.76			
HYLND	424651.12N/0711631.08W	Y	FB	TF	303.51	26.99			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HYLND	THREE	HYLND3.HYLND	TWO	18 NOV 10	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW22R (AER)*	422234.26N/0710019.93W*	N	-	-	-	-			*DISPL THLD (815.0 FT)
-	422029.09N/0710120.47W	-	-	VI	199.74	2.22		AT/BELOW 210K	CG 500 FT/NM TO 520.
TJAYY	421818.19N/0705737.75W	Y	FB	CF	128.40	3.51			VI CF PERMITTED
BOATT	422031.61N/0704513.67W	Y	FB	TF	076.35	9.46		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
HEARR	422649.28N/0704235.12W	Y	FB	TF	017.27	6.59			
MARBB	423200.65N/0704557.30W	Y	FB	TF	334.35	5.76			
HYLND	424651.12N/0711631.08W	Y	FB	TF	303.51	26.99			
RW27 (AER)	422136.78N/0705915.73W	N	-	-	-	-			
-	422058.84N/0710249.80W	-	-	VI	256.58	2.72			CG 500 FT/NM TO 1300
KIRAA	421631.48N/0710741.78W	Y	FB	CF	219.00	5.73			VI CF PERMITTED
GLOWB	421721.83N/0711306.18W	Y	FB	TF	281.84	4.10			RECOMMENDED NAVAID BOS VOR/DME
HRALD	422248.26N/0711528.72W	Y	FB	TF	342.06	5.72			
HYLND	424651.12N/0711631.08W	Y	FB	TF	358.18	24.05			
RWY33L (AER)	422116.74N/0705929.71W	N	-	-	-	-			
-	422317.97N/0710212.28W	-	-	VI	315.18	2.85			CG 500 FT/NM TO 3100
TEKKK	422445.85N/0710555.09W	Y	FB	CF	298.00	3.12			VI CF PERMITTED
CAMWI	423041.97N/0710909.58W	Y	FB	TF	338.00	6.40	AT/ABOVE 4000		RECOMMENDED NAVAID BOS VOR/DME
HYLND	424651.12N/0711631.08W	Y	FB	TF	341.45	17.04			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HYLND RNAV	THREE	HYLND3.HYLND	TWO	18 NOV 2010	07 MAR 2013

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BOS   K6011270VDH  N42212682W070592237    N42212682W070592237W0160000202     NARBOSTON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BOATT K60    W     N42203161W070451367                      W0151     NAR           BOATT
        SUSAEAENRT   CAMWI K60    W     N42304197W071090958                      W0150     NAR           CAMWI
        SUSAEAENRT   CLAWW K60    W     N42232527W070484767                      W0151     NAR           CLAWW
        SUSAEAENRT   CORRT K60    W     N42264535W070453521                      W0151     NAR           CORRT
        SUSAEAENRT   FOXXX K60    W     N42185528W070541054                      W0150     NAR           FOXXX
        SUSAEAENRT   GLOWB K60    W     N42172183W071130618                      W0149     NAR           GLOWB
        SUSAEAENRT   HEARR K60    W     N42264928W070423512                      W0152     NAR           HEARR
        SUSAEAENRT   HRALD K60    W     N42224826W071152872                      W0149     NAR           HRALD
        SUSAEAENRT   HURBE K60    W     N42273874W070510704                      W0151     NAR           HURBE
        SUSAEAENRT   HYLND K60    C   B N42465112W071163108                      W0150     NAR           HYLND
        SUSAEAENRT   KIRAA K60    W     N42163148W071074178                      W0149     NAR           KIRAA
        SUSAEAENRT   MARBB K60    W     N42320065W070455730                      W0152     NAR           MARBB
        SUSAEAENRT   NHANT K60    W     N42262324W070575997                      W0150     NAR           NHANT
        SUSAEAENRT   SHAAN K60    W     N42344762W070493940                      W0151     NAR           SHAAN
        SUSAEAENRT   STAYC K60    W     N42302820W070472961                      W0151     NAR           STAYC
        SUSAEAENRT   TEKKK K60    W     N42244585W071055509                      W0150     NAR           TEKKK
        SUSAEAENRT   TJAYY K60    W     N42181819W070573775                      W0150     NAR           TJAYY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6ABOS     0     100YHN42214670W071002310W016000020         1800018000C    MNAR    GENERAL EDWARD LAWRENCE LOGAN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6DHYLND34RW04R 010         0        VA                       0357        + 00520     18000
        SUSAP KBOSK6DHYLND34RW04R 020NHANTK6EA0E    010DF
        SUSAP KBOSK6DHYLND34RW04R 030HURBEK6EA0E    010TF                       09210053    + 04000
        SUSAP KBOSK6DHYLND34RW04R 040STAYCK6EA0E    010TF                       05950039
        SUSAP KBOSK6DHYLND34RW04R 050SHAANK6EA0E    010TF                       35570046
        SUSAP KBOSK6DHYLND34RW04R 060HYLNDK6EA0EE   010TF                       31750232
        SUSAP KBOSK6DHYLND34RW09  010         0        VA                       0926        + 00520     18000
        SUSAP KBOSK6DHYLND34RW09  020CLAWWK6EA0E    010DF                                   + 04000
        SUSAP KBOSK6DHYLND34RW09  030CORRTK6EA0E    010TF                       05150041
        SUSAP KBOSK6DHYLND34RW09  040STAYCK6EA0E    010TF                       35520040
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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HYLND RNAV	THREE	HYLND3.HYLND	TWO	18 NOV 2010	07 MAR 2013

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SUSAP KBOSK6DHYLND34RW09  050HYLNDK6EA0EE   010TF                    32360270
SUSAP KBOSK6DHYLND34RW15R 010         0      VI                      1512                    18000210              -
SUSAP KBOSK6DHYLND34RW15R 020FOXXXK6EA0E    010CF BOS K6      1392004613200035D
SUSAP KBOSK6DHYLND34RW15R 030BOATTK6EA0E    010TF                    09240068                     250              -
SUSAP KBOSK6DHYLND34RW15R 040HEARRK6EA0E    010TF                    03330066
SUSAP KBOSK6DHYLND34RW15R 050MARBBK6EA0E    010TF                    35040058
SUSAP KBOSK6DHYLND34RW15R 060HYLNDK6EA0EE   010TF                    31950270
SUSAP KBOSK6DHYLND34RW22L 010         0      VI                      2157                    18000210              -
SUSAP KBOSK6DHYLND34RW22L 020TJAYYK6EA0E    010CF BOS K6      1736003414000032D
SUSAP KBOSK6DHYLND34RW22L 030BOATTK6EA0E    010TF                    09240095                     250              -
SUSAP KBOSK6DHYLND34RW22L 040HEARRK6EA0E    010TF                    03330066
SUSAP KBOSK6DHYLND34RW22L 050MARBBK6EA0E    010TF                    35040058
SUSAP KBOSK6DHYLND34RW22L 060HYLNDK6EA0EE   010TF                    31950270
SUSAP KBOSK6DHYLND34RW22R 010         0      VI                      2157                    18000210              -
SUSAP KBOSK6DHYLND34RW22R 020TJAYYK6EA0E    010CF BOS K6      1736003414440035D
SUSAP KBOSK6DHYLND34RW22R 030BOATTK6EA0E    010TF                    09240095                     250              -
SUSAP KBOSK6DHYLND34RW22R 040HEARRK6EA0E    010TF                    03330066
SUSAP KBOSK6DHYLND34RW22R 050MARBBK6EA0E    010TF                    35040058
SUSAP KBOSK6DHYLND34RW22R 060HYLNDK6EA0EE   010TF                    31950270
SUSAP KBOSK6DHYLND34RW27  010         0      VI                      2726                    18000
SUSAP KBOSK6DHYLND34RW27  020KIRAAK6EA0E    010CF BOS K6      2475007923500057D
SUSAP KBOSK6DHYLND34RW27  030GLOWBK6EA0E    010TF                    29780041
SUSAP KBOSK6DHYLND34RW27  040HRALDK6EA0E    010TF                    35810057
SUSAP KBOSK6DHYLND34RW27  050HYLNDK6EA0EE   010TF                    01420241
SUSAP KBOSK6DHYLND34RW33L 010         0      VI                      3312                    18000
SUSAP KBOSK6DHYLND34RW33L 020TEKKKK6EA0E    010CF BOS K6      3204005931400031D
SUSAP KBOSK6DHYLND34RW33L 030CAMWIK6EA0E    010TF                    35400064    + 04000
SUSAP KBOSK6DHYLND34RW33L 040HYLNDK6EA0EE   010TF                    35750170
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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6GRW04R   0100050357 N42211455W071003727+0000    -0022300018115451150IIBOS3
        SUSAP KBOSK6GRW09    0070000926 N42212072W071004642+0000    -0022600017000050150D
        SUSAP KBOSK6GRW15R   0100831512 N42222120W071005613+0000    -0022400017088160150IIMDC1
        SUSAP KBOSK6GRW22L   0100052157 N42222569W071000284+0000    -0022900016119955150IILQN1
        SUSAP KBOSK6GRW22R   0078612157 N42223426W071001993+0000    -0023000015081550150V
        SUSAP KBOSK6GRW27    0070002726 N42213678W070591573+0000    -0023200015000057150IIDGU1
        SUSAP KBOSK6GRW33L   0100833312 N42211674W070592971+0000    -0023100015000057150IILIP1
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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HYLND RNAV	THREE	HYLND3.HYLND	TWO	18 NOV 2010	07 MAR 2013

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW04R		010		VA		FB		035.7()		AA 00520	
	RW04R	NHANT	020		DF		FB	1.0				
	RW04R	HURBE	030		TF		FB	1.0	092.1()	005.3	AA 04000	
	RW04R	STAYC	040		TF		FB	1.0	059.5()	003.9		
	RW04R	SHAAN	050		TF		FB	1.0	355.7()	004.6		
	RW04R	HYLND	060		TF		FB	1.0	317.5()	023.2		
	RW09		010		VA		FB		092.6()		AA 00520	
	RW09	CLAWW	020		DF		FB	1.0			AA 04000	
	RW09	CORRT	030		TF		FB	1.0	051.5()	004.1		
	RW09	STAYC	040		TF		FB	1.0	355.2()	004.0		
	RW09	HYLND	050		TF		FB	1.0	323.6()	027.0		
	RW15R		010		VI		FB		151.2()			AB 210
	RW15R	FOXXX	020		CF		FB	1.0	132.0()	003.5		
	RW15R	BOATT	030		TF		FB	1.0	092.4()	006.8		AB 250
	RW15R	HEARR	040		TF		FB	1.0	033.3()	006.6		
	RW15R	MARBB	050		TF		FB	1.0	350.4()	005.8		
	RW15R	HYLND	060		TF		FB	1.0	319.5()	027.0		
	RW22L		010		VI		FB		215.7()			AB 210
	RW22L	TJAYY	020		CF		FB	1.0	140.0()	003.2		
	RW22L	BOATT	030		TF		FB	1.0	092.4()	009.5		AB 250
	RW22L	HEARR	040		TF		FB	1.0	033.3()	006.6		
	RW22L	MARBB	050		TF		FB	1.0	350.4()	005.8		
	RW22L	HYLND	060		TF		FB	1.0	319.5()	027.0		
	RW22R		010		VI		FB		215.7()			AB 210
	RW22R	TJAYY	020		CF		FB	1.0	144.4()	003.5		
	RW22R	BOATT	030		TF		FB	1.0	092.4()	009.5		AB 250
	RW22R	HEARR	040		TF		FB	1.0	033.3()	006.6		
	RW22R	MARBB	050		TF		FB	1.0	350.4()	005.8		
	RW22R	HYLND	060		TF		FB	1.0	319.5()	027.0		
	RW27		010		VI		FB		272.6()			
	RW27	KIRAA	020		CF		FB	1.0	235.0()	005.7		
	RW27	GLOWB	030		TF		FB	1.0	297.8()	004.1		
	RW27	HRALD	040		TF		FB	1.0	358.1()	005.7		
	RW27	HYLND	050		TF		FB	1.0	014.2()	024.1		
	RW33L		010		VI		FB		331.2()			
	RW33L	TEKKK	020		CF		FB	1.0	314.0()	003.1		
	RW33L	CAMWI	030		TF		FB	1.0	354.0()	006.4	AA 04000	
	RW33L	HYLND	040		TF		FB	1.0	357.5()	017.0		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BOS	N422126.82	W0705922.37	N4221.447	W07059.373

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HYLND RNAV	THREE	HYLND3.HYLND	TWO	18 NOV 2010	07 MAR 2013

BOATT	N422031.61	W0704513.67	N4220.527	W07045.228
CAMWI	N423041.97	W0710909.58	N4230.700	W07109.160
CLAWW	N422325.27	W0704847.67	N4223.421	W07048.795
CORRT	N422645.35	W0704535.21	N4226.756	W07045.587
FOXXX	N421855.28	W0705410.54	N4218.921	W07054.176
GLOWB	N421721.83	W0711306.18	N4217.364	W07113.103
HEARR	N422649.28	W0704235.12	N4226.821	W07042.585
HRALD	N422248.26	W0711528.72	N4222.804	W07115.479
HURBE	N422738.74	W0705107.04	N4227.646	W07051.117
HYLND	N424651.12	W0711631.08	N4246.852	W07116.518
KIRAA	N421631.48	W0710741.78	N4216.525	W07107.696
MARBB	N423200.65	W0704557.30	N4232.011	W07045.955
NHANT	N422623.24	W0705759.97	N4226.387	W07058.000
SHAAN	N423447.62	W0704939.40	N4234.794	W07049.657
STAYC	N423028.20	W0704729.61	N4230.470	W07047.494
TEKKK	N422445.85	W0710555.09	N4224.764	W07105.918
TJAYY	N421818.19	W0705737.75	N4218.303	W07057.629
RW04R	N422114.55	W0710037.27	N4221.243	W07100.621
RW09	N422120.72	W0710046.42	N4221.345	W07100.774
RW15R	N422221.20	W0710056.13	N4222.353	W07100.936
RW22L	N422225.69	W0710002.84	N4222.428	W07100.047
RW22R	N422234.26	W0710019.93	N4222.571	W07100.332
RW27	N422136.78	W0705915.73	N4221.613	W07059.262
RW33L	N422116.74	W0705929.71	N4221.279	W07059.495

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW04R	00018	51
RW09	00017	50
RW15R	00017	60
RW22L	00016	55
RW22R	00015	50
RW27	00015	57
RW33L	00015	57

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CELTK	THREE	CELTK3.CELTK	TWO	18 NOV 10	07 MAR 2013

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 4R: CLIMB HEADING 035.74 TO 520, THEN DIRECT NHANT, THEN ON TRACK 092.09 TO CROSS HURBE AT OR ABOVE 4000, THENCE...
TAKEOFF RWY 9: CLIMB HEADING 092.56 TO 520, THEN DIRECT CLAWW, CROSS CLAWW AT OR ABOVE 4000, THENCE...
TAKEOFF RWY 15R: CLIMB HEADING 151.16 TO INTERCEPT COURSE 132.00 TO FOXXX, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 22L: CLIMB HEADING 215.74 TO INTERCEPT COURSE 140.00 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 22R: CLIMB HEADING 215.74 TO INTERCEPT COURSE 144.40 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 27: CLIMB HEADING 272.58 TO INTERCEPT COURSE 235.00 TO KIRAA, THENCE...
TAKEOFF RWY 33L: CLIMB HEADING 331.18 TO INTERCEPT COURSE 314.00 TO TEKKK, THEN ON TRACK 250.77 TO CROSS COUSY AT OR ABOVE 5000, THENCE...

...ON DEPICTED ROUTE TO CELTK. MAINTAIN 5000 OR LOWER ASSIGNED ALTITUDE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: RNAV 1.
NOTE: FOR TURBOJETS ONLY.
NOTE: DEPARTURE HDG/RNAV TRACKS/VECTORS ARE PREDICATED ON AVOIDING NOISE SENSITIVE AREAS. FLIGHT CREW AWARENESS AND COMPLIANCE IS IMPORTANT IN MINIMIZING NOISE IMPACTS ON SURROUNDING COMMUNITIES.
NOTE: RWY 15R, 22L, 22R: DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL.
NOTE: AT/BELOW 250K UNTIL BRRRO.

TAKEOFF MINIMUMS: RWY 4L, 14, 15L, 32, 33R, NA-ATC.
RWY 4R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3600.
RWY 9, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 4000.
RWY 15R, STANDARD WITH MINIMUM CLIMB OF 520 FT PER NM TO 520.
RWY 22L, 300-1 WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, OR STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520 IF TOWER REPORTS NO TALL VESSELS IN THE DEPARTURE AREA.
RWY 22R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520,
RWY 27, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1300.
RWY 33L, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 4900.

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nauticel miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CELTK	THREE	CELTK3.CELTK	TWO	18 NOV 10	07 MAR 2013

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 4R, SHIPS BEGINNING 579 FT FROM DER, ON CENTERLINE, UP TO 50 FT AGL/50 FT MSL. POLE AND TREES BEGINNING 1806 FT FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/79 FT MSL.
NOTE: RWY 9, SHIPS 762 FT FROM DER, ON CENTERLINE, UP TO 65 FT AGL/65 FT MSL. TANK 5904 FT FROM DER, 1453 FT LEFT OF CENTERLINE, 109 FT AGL/206 FT MSL.
NOTE: RWY 15R, SIGN 45 FT FROM DER, 267 FT RIGHT OF CENTERLINE, 6 FT AGL/16 FT MSL.
NOTE: RWY 22L, POLE 394 FT FROM DER, ON CENTERLINE, 15 FT AGL/31 FT MSL. TOWER 3585 FT FROM DER, 926 FT LEFT OF CENTERLINE, 108 FT AGL/128 FT MSL. MOBILE CRANE 3675 FT FROM DER, 439 FT RIGHT OF CENTERLINE, 122 FT AGL/145 FT MSL. SHIP RIG 2440 FT FROM DER, 34 FT LEFT OF CENTERLINE, 176 FT AGL/176 FT MSL.
NOTE: RWY 22R, SHIP RIG 4064 FT FROM DER, 8 FT RIGHT OF CENTERLINE, 176 FT AGL/176 FT MSL. STACKS BEGINNING 1.4 NM FROM DER, 2795 FT RIGHT OF CENTERLINE, UP TO 320 FT AGL/335 FT MSL.
NOTE: RWY 27, LIGHT POLE AND ROD BEGINNING 1690 FT FROM DER, 759 FT RIGHT OF CENTERLINE, UP 60 FT AGL/100 FT MSL.
NOTE: RWY 33L, ELECTRICAL SYSTEMS, BUILDINGS, CHIMNEY ON BUILDING, AND TANK BEGINNING 796 FT FROM DER, 603 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/149 FT MSL. SIGN, WIND INDICATOR ON TOWER, AND TREES BEGINNING 248 FT FROM DER, 51 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/101 FT MSL. BRIDGE 1.4 NM FROM DER, 2568 FT LEFT OF CENTERLINE, 262 FT AGL/262 FT MSL.

CONTROLLING OBSTACLES:

RWY 9: 206 MSL TANK 422204.30N/0705803.73W.
RWY 22L: 176 MSL SHIP RIG 422041.00N/0710053.00W.
RWY 22R: 176 MSL SHIP RIG 422051.00N/0710110.00W.
RWY 27: 639 MSL BLDG 422120.28N/0710307.73W. 920 MSL BLDG 422050.00N/0710457.00W.
RWY 33L: 262 MSL BRIDGE 422308.76N/0710248.14W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KBOS 16W EPOCH YEAR: 95. DME/DME ASSESSMENT: SAT (RNP 2.0).

AIRPORTS SERVED:

GENERAL EDWARD LAWRENCE LOGAN INTL BOSTON, MA

COMMUNICATIONS:

ATIS, CLEARANCE DELIVERY, GROUND CONTROL, TOWER, DEPARTURE CONTROL

FIXES AND/OR NAVAIDS:

BRRRO, CBEAR, COLYN, FENWY, FRILL, ORRRR, SCOAR, TONNI.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CELTK	THREE	CELTK3.CELTK	TWO	18 NOV 10	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW04R (AER)*	422114.55N/0710037.27W*	N	-	-	-	-			*DISPL THLD (1154.0 FT)
520 MSL	-	-	-	VA	019.74	-			CG 500 FT/NM TO 3600
NHANT	422623.24N/0705759.97W	Y	FB	DF	-	-			
HURBE	422738.74N/0705107.04W	Y	FB	TF	076.09	5.25	AT/ABOVE 4000		
ORRRR	422528.48N/0704513.44W	Y	FB	TF	116.41	4.87			
TONNI	422224.06N/0703648.72W	Y	FB	TF	116.20	6.95			
CELTK	421559.05N/0700612.33W	Y	FB	TF	105.60	23.59			
RW09 (AER)	422120.72N/0710046.42W	N	-	-	-	-			
520 MSL	-	-	-	VA	076.56	-			CG 500 FT/NM TO 4000
CLAWW	422325.27N/0704847.67W	Y	FB	DF	-	-	AT/ABOVE 4000		
FENWY	422238.40N/0704340.17W	Y	FB	TF	101.59	3.88			
SCOAR	421845.42N/0703815.02W	Y	FB	TF	133.98	5.59			
CELTK	421559.05N/0700612.33W	Y	FB	TF	096.47	23.94			
RW15R (AER)*	422221.20N/0710056.13W*	N	-	-	-	-			*DISPL THLD (881.0 FT)
-	422026.20N/0705822.01W	-	-	VI	135.16	2.70		AT/BELOW 210K	CG 500 FT/NM TO 520
FOXXX	421855.28N/0705410.54W	Y	FB	CF	116.00	3.46			VI CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	4.64		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
SCOAR	421845.42N/0703815.02W	Y	FB	TF	099.70	7.41			
CELTK	421559.05N/0700612.33W	Y	FB	TF	096.47	23.94			
RW22L (AER)*	422225.69N/0710002.84W*	N	-	-	-	-			*DISPL THLD (1199.0 FT)
-	422004.85N/0710110.98W	-	-	VI	199.74	2.49		AT/BELOW 210K	CG 500 FT/NM TO 520
TJAYY	421818.19N/0705737.75W	Y	FB	CF	124.00	3.18			VI CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	7.28		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
SCOAR	421845.42N/0703815.02W	Y	FB	TF	099.70	7.41			
CELTK	421559.05N/0700612.33W	Y	FB	TF	096.47	23.94			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CELTK	THREE	CELTK3.CELTK	TWO	18 NOV 10	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW22R (AER)*	422234.26N/0710019.93W*	N	-	-	-	-			*DISPL THLD (815.0 FT)
-	422029.09N/0710120.47W	-	-	VI	199.74	2.22		AT/BELOW 210K	CG 500 FT/NM TO 520
TJAYY	421818.19N/0705737.75W	Y	FB	CF	128.40	3.51			VI CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	7.28		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
SCOAR	421845.42N/0703815.02W	Y	FB	TF	099.70	7.41			
CELTK	421559.05N/0700612.33W	Y	FB	TF	096.47	23.94			
RW27 (AER)	422136.78N/0705915.73W	N	-	-	-	-			
-	422058.84N/0710249.80W	-	-	VI	256.58	2.72			CG 500 FT/NM TO 1300
KIRAA	421631.48N/0710741.78W	Y	FB	CF	219.00	5.73			VI CF PERMITTED
COLYN	420909.66N/0710224.39W	Y	FB	TF	151.87	8.34			RECOMMENDED NAVAID BOS VOR/DME
CELTK	421559.05N/0700612.33W	Y	FB	TF	080.41	42.32			
RWY33L (AER)	422116.74N/0705929.74W	N	-	-	-	-			
-	422317.97N/0710212.28W	-	-	VI	315.18	2.85			CG 500 FT/NM TO 4900
TEKKK	422445.85N/0710555.09W	Y	FB	CF	298.00	3.12			VI CF PERMITTED
COUSY	422117.92N/0711231.70W	Y	FB	TF	234.77	6.00	AT/ABOVE 5000		RECOMMENDED NAVAID BOS VOR/DME
CBEAR	421519.94N/0710936.29W	Y	FB	TF	160.00	6.35			
COLYN	420909.66N/0710224.39W	Y	FB	TF	139.03	8.17			
CELTK	421559.05N/0700612.33W	Y	FB	TF	080.41	42.32			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CELTK RNAV	THREE	CELTK3.CELTK	TWO	18 NOV 2010	07 MAR 2013

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BOS   K6011270VDH  N42212682W070592237    N42212682W070592237W0160000202     NARBOSTON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BRRRO K60    W     N42200078W070480548                      W0151     NAR           BRRRO
        SUSAEAENRT   CBEAR K60    W     N42151994W071093629                      W0149     NAR           CBEAR
        SUSAEAENRT   CELTK K60    C   B N42155905W070061233                      W0154     NAR           CELTK
        SUSAEAENRT   CLAWW K60    W     N42232527W070484767                      W0151     NAR           CLAWW
        SUSAEAENRT   COLYN K60    W     N42090966W071022439                      W0149     NAR           COLYN
        SUSAEAENRT   COUSY K60    W     N42211792W071123170                      W0149     NAR           COUSY
        SUSAEAENRT   FENWY K60    W     N42223840W070434017                      W0151     NAR           FENWY
        SUSAEAENRT   FOXXX K60    W     N42185528W070541054                      W0150     NAR           FOXXX
        SUSAEAENRT   HURBE K60    W     N42273874W070510704                      W0151     NAR           HURBE
        SUSAEAENRT   KIRAA K60    W     N42163148W071074178                      W0149     NAR           KIRAA
        SUSAEAENRT   NHANT K60    W     N42262324W070575997                      W0150     NAR           NHANT
        SUSAEAENRT   ORRRR K60    W     N42252848W070451344                      W0151     NAR           ORRRR
        SUSAEAENRT   SCOAR K60    W     N42184542W070381502                      W0152     NAR           SCOAR
        SUSAEAENRT   TEKKK K60    W     N42244585W071055509                      W0150     NAR           TEKKK
        SUSAEAENRT   TJAYY K60    W     N42181819W070573775                      W0150     NAR           TJAYY
        SUSAEAENRT   TONNI K60    C   L N42222406W070364872                      W0152     NAR           TONNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6ABOS     0     100YHN42214670W071002310W016000020         1800018000C    MNAR    GENERAL EDWARD LAWRENCE LOGAN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6DCELTK34RW04R 010         0        VA                       0357        + 00520     18000
        SUSAP KBOSK6DCELTK34RW04R 020NHANTK6EA0E    010DF
        SUSAP KBOSK6DCELTK34RW04R 030HURBEK6EA0E    010TF                       09210053    + 04000
        SUSAP KBOSK6DCELTK34RW04R 040ORRRRK6EA0E    010TF                       13240049
        SUSAP KBOSK6DCELTK34RW04R 050TONNIK6EA0E    010TF                       13220070
        SUSAP KBOSK6DCELTK34RW04R 060CELTKK6EA0EE   010TF                       12160236
        SUSAP KBOSK6DCELTK34RW09  010         0        VA                       0926        + 00520     18000
        SUSAP KBOSK6DCELTK34RW09  020CLAWWK6EA0E    010DF                                   + 04000
        SUSAP KBOSK6DCELTK34RW09  030FENWYK6EA0E    010TF                       11760039
        SUSAP KBOSK6DCELTK34RW09  040SCOARK6EA0E    010TF                       15000056
        SUSAP KBOSK6DCELTK34RW09  050CELTKK6EA0EE   010TF                       11250239
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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CELTK RNAV	THREE	CELTK3.CELTK	TWO	18 NOV 2010	07 MAR 2013

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SUSAP KBOSK6DCELTK34RW15R 010          0        VI                      1512                    18000210              -
SUSAP KBOSK6DCELTK34RW15R 020FOXXXK6EA0E    010CF BOS K6      1392004613200035D
SUSAP KBOSK6DCELTK34RW15R 030BRRROK6EA0E    010TF                      09240046                     250              -
SUSAP KBOSK6DCELTK34RW15R 040SCOARK6EA0E    010TF                      11570074
SUSAP KBOSK6DCELTK34RW15R 050CELTKK6EA0EE   010TF                      11250239
SUSAP KBOSK6DCELTK34RW22L 010          0        VI                      2157                    18000210              -
SUSAP KBOSK6DCELTK34RW22L 020TJAYYK6EA0E    010CF BOS K6      1736003414000032D
SUSAP KBOSK6DCELTK34RW22L 030BRRROK6EA0E    010TF                      09240073                     250              -
SUSAP KBOSK6DCELTK34RW22L 040SCOARK6EA0E    010TF                      11570074
SUSAP KBOSK6DCELTK34RW22L 050CELTKK6EA0EE   010TF                      11250239
SUSAP KBOSK6DCELTK34RW22R 010          0        VI                      2157                    18000210              -
SUSAP KBOSK6DCELTK34RW22R 020TJAYYK6EA0E    010CF BOS K6      1736003414440035D
SUSAP KBOSK6DCELTK34RW22R 030BRRROK6EA0E    010TF                      09240073                     250              -
SUSAP KBOSK6DCELTK34RW22R 040SCOARK6EA0E    010TF                      11570074
SUSAP KBOSK6DCELTK34RW22R 050CELTKK6EA0EE   010TF                      11250239
SUSAP KBOSK6DCELTK34RW27  010          0        VI                      2726                    18000
SUSAP KBOSK6DCELTK34RW27  020KIRAAK6EA0E    010CF BOS K6      2475007923500057D
SUSAP KBOSK6DCELTK34RW27  030COLYNK6EA0E    010TF                      16790083
SUSAP KBOSK6DCELTK34RW27  040CELTKK6EA0EE   010TF                      09640423
SUSAP KBOSK6DCELTK34RW33L 010          0        VI                      3312                    18000
SUSAP KBOSK6DCELTK34RW33L 020TEKKKK6EA0E    010CF BOS K6      3204005931400031D
SUSAP KBOSK6DCELTK34RW33L 030COUSYK6EA0E    010TF                      25080060    + 05000
SUSAP KBOSK6DCELTK34RW33L 040CBEARK6EA0E    010TF                      17600064
SUSAP KBOSK6DCELTK34RW33L 050COLYNK6EA0E    010TF                      15500082
SUSAP KBOSK6DCELTK34RW33L 060CELTKK6EA0EE   010TF                      09640423
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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6GRW04R   0100050357 N42211455W071003727+0000    -0022300018115451150IIBOS3
        SUSAP KBOSK6GRW09    0070000926 N42212072W071004642+0000    -0022600017000050150D
        SUSAP KBOSK6GRW15R   0100831512 N42222120W071005613+0000    -0022400017088160150IIMDC1
        SUSAP KBOSK6GRW22L   0100052157 N42222569W071000284+0000    -0022900016119955150IILQN1
        SUSAP KBOSK6GRW22R   0078612157 N42223426W071001993+0000    -0023000015081550150V
        SUSAP KBOSK6GRW27    0070002726 N42213678W070591573+0000    -0023200015000057150IIDGU1
        SUSAP KBOSK6GRW33L   0100833312 N42211674W070592971+0000    -0023100015000057150IILIP1
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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CELTK RNAV	THREE	CELTK3.CELTK	TWO	18 NOV 2010	07 MAR 2013

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW04R		010		VA		FB		035.7()		AA 00520	
	RW04R	NHANT	020		DF		FB	1.0				
	RW04R	HURBE	030		TF		FB	1.0	092.1()	005.3	AA 04000	
	RW04R	ORRRR	040		TF		FB	1.0	132.4()	004.9		
	RW04R	TONNI	050		TF		FB	1.0	132.2()	007.0		
	RW04R	CELTK	060		TF		FB	1.0	121.6()	023.6		
	RW09		010		VA		FB		092.6()		AA 00520	
	RW09	CLAWW	020		DF		FB	1.0			AA 04000	
	RW09	FENWY	030		TF		FB	1.0	117.6()	003.9		
	RW09	SCOAR	040		TF		FB	1.0	150.0()	005.6		
	RW09	CELTK	050		TF		FB	1.0	112.5()	023.9		
	RW15R		010		VI		FB		151.2()			AB 210
	RW15R	FOXXX	020		CF		FB	1.0	132.0()	003.5		
	RW15R	BRRRO	030		TF		FB	1.0	092.4()	004.6		AB 250
	RW15R	SCOAR	040		TF		FB	1.0	115.7()	007.4		
	RW15R	CELTK	050		TF		FB	1.0	112.5()	023.9		
	RW22L		010		VI		FB		215.7()			AB 210
	RW22L	TJAYY	020		CF		FB	1.0	140.0()	003.2		
	RW22L	BRRRO	030		TF		FB	1.0	092.4()	007.3		AB 250
	RW22L	SCOAR	040		TF		FB	1.0	115.7()	007.4		
	RW22L	CELTK	050		TF		FB	1.0	112.5()	023.9		
	RW22R		010		VI		FB		215.7()			AB 210
	RW22R	TJAYY	020		CF		FB	1.0	144.4()	003.5		
	RW22R	BRRRO	030		TF		FB	1.0	092.4()	007.3		AB 250
	RW22R	SCOAR	040		TF		FB	1.0	115.7()	007.4		
	RW22R	CELTK	050		TF		FB	1.0	112.5()	023.9		
	RW27		010		VI		FB		272.6()			
	RW27	KIRAA	020		CF		FB	1.0	235.0()	005.7		
	RW27	COLYN	030		TF		FB	1.0	167.9()	008.3		
	RW27	CELTK	040		TF		FB	1.0	096.4()	042.3		
	RW33L		010		VI		FB		331.2()			
	RW33L	TEKKK	020		CF		FB	1.0	314.0()	003.1		
	RW33L	COUSY	030		TF		FB	1.0	250.8()	006.0	AA 05000	
	RW33L	CBEAR	040		TF		FB	1.0	176.0()	006.4		
	RW33L	COLYN	050		TF		FB	1.0	155.0()	008.2		
	RW33L	CELTK	060		TF		FB	1.0	096.4()	042.3		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BOS	N422126.82	W0705922.37	N4221.447	W07059.373
	BRRRO	N422000.78	W0704805.48	N4220.013	W07048.091
	CBEAR	N421519.94	W0710936.29	N4215.332	W07109.605

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CELTK RNAV	THREE	CELTK3.CELTK	TWO	18 NOV 2010	07 MAR 2013

CELTK	N421559.05	W0700612.33	N4215.984	W07006.206
CLAWW	N422325.27	W0704847.67	N4223.421	W07048.795
COLYN	N420909.66	W0710224.39	N4209.161	W07102.407
COUSY	N422117.92	W0711231.70	N4221.299	W07112.528
FENWY	N422238.40	W0704340.17	N4222.640	W07043.670
FOXXX	N421855.28	W0705410.54	N4218.921	W07054.176
HURBE	N422738.74	W0705107.04	N4227.646	W07051.117
KIRAA	N421631.48	W0710741.78	N4216.525	W07107.696
NHANT	N422623.24	W0705759.97	N4226.387	W07058.000
ORRRR	N422528.48	W0704513.44	N4225.475	W07045.224
SCOAR	N421845.42	W0703815.02	N4218.757	W07038.250
TEKKK	N422445.85	W0710555.09	N4224.764	W07105.918
TJAYY	N421818.19	W0705737.75	N4218.303	W07057.629
TONNI	N422224.06	W0703648.72	N4222.401	W07036.812
RW04R	N422114.55	W0710037.27	N4221.243	W07100.621
RW09	N422120.72	W0710046.42	N4221.345	W07100.774
RW15R	N422221.20	W0710056.13	N4222.353	W07100.936
RW22L	N422225.69	W0710002.84	N4222.428	W07100.047
RW22R	N422234.26	W0710019.93	N4222.571	W07100.332
RW27	N422136.78	W0705915.73	N4221.613	W07059.262
RW33L	N422116.74	W0705929.71	N4221.279	W07059.495

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW04R	00018	51
RW09	00017	50
RW15R	00017	60
RW22L	00016	55
RW22R	00015	50
RW27	00015	57
RW33L	00015	57

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BRUWN	THREE	BRUWN3.BRUWN	TWO	18 NOV 10	07 MAR 2013

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 4R: CLIMB HEADING 035.74 TO 520, THEN DIRECT NHANT, THEN ON TRACK 092.09 TO CROSS HURBE AT OR ABOVE 4000, THENCE...
TAKEOFF RWY 9: CLIMB HEADING 092.56 TO 520, THEN DIRECT CLAWW, CROSS CLAWW AT OR ABOVE 4000, THENCE...
TAKEOFF RWY 15R: CLIMB HEADING 151.16 TO INTERCEPT COURSE 132.00 TO FOXXX, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 22L: CLIMB HEADING 215.74 TO INTERCEPT COURSE 140.00 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 22R: CLIMB HEADING 215.74 TO INTERCEPT COURSE 144.40 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 27: CLIMB HEADING 272.58 TO INTERCEPT COURSE 235.00 TO KIRAA, THENCE...
TAKEOFF RWY 33L: CLIMB HEADING 331.18 TO INTERCEPT COURSE 314.00 TO TEKKK, THEN ON TRACK 250.77 TO CROSS COUSY AT OR ABOVE 5000, THENCE...

...ON DEPICTED ROUTE TO BRUWN. MAINTAIN 5000 OR LOWER ASSIGNED ALTITUDE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: RNAV 1.
NOTE: FOR TURBOJETS ONLY.
NOTE: DEPARTURE HDG/RNAV TRACKS/VECTORS ARE PREDICATED ON AVOIDING NOISE SENSITIVE AREAS. FLIGHT CREW AWARENESS AND COMPLIANCE IS IMPORTANT IN MINIMIZING NOISE IMPACTS ON SURROUNDING COMMUNITIES.
NOTE: RWY 15R, 22L, 22R: DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL.
NOTE: AT/BELOW 250K UNTIL BRRRO.

TAKEOFF MINIMUMS: RWY 4L, 14, 15L, 32, 33R, NA-ATC.
RWY 4R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3600.
RWY 9, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 4000.
RWY 15R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.
RWY 22L, 300-1 WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, OR STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520 IF TOWER REPORTS NO TALL VESSELS IN THE DEPARTURE AREA.
RWY 22R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.
RWY 27, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1300.
RWY 33L, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 4900.

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BRUWN	THREE	BRUWN3.BRUWN	TWO	18 NOV 10	07 MAR 2013

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 4R, SHIPS BEGINNING 579 FT FROM DER, ON CENTERLINE, UP TO 50 FT AGL/50 FT MSL. POLE AND TREES BEGINNING 1806 FT FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/79 FT MSL.
NOTE: RWY 9, SHIPS 762 FT FROM DER, ON CENTERLINE, UP TO 65 FT AGL/65 FT MSL. TANK 5904 FT FROM DER, 1453 FT LEFT OF CENTERLINE, 109 FT AGL/206 FT MSL.
NOTE: RWY 15R, SIGN 45 FT FROM DER, 267 FT RIGHT OF CENTERLINE, 6 FT AGL/16 FT MSL.
NOTE: RWY 22L, POLE 394 FT FROM DER, ON CENTERLINE, 15 FT AGL/31 FT MSL. TOWER 3585 FT FROM DER, 926 FT LEFT OF CENTERLINE, 108 FT AGL/128 FT MSL. MOBILE CRANE 3675 FT FROM DER, 439 FT RIGHT OF CENTERLINE, 122 FT AGL/145 FT MSL. SHIP RIG 2440 FT FROM DER, 34 FT LEFT OF CENTERLINE, 176 FT AGL/176 FT MSL.
NOTE: RWY 22R, SHIP RIG 4064 FT FROM DER, 8 FT RIGHT OF CENTERLINE, 176 FT AGL/176 FT MSL. STACKS BEGINNING 1.4 NM FROM DER, 2795 FT RIGHT OF CENTERLINE, UP TO 320 FT AGL/335 FT MSL.
NOTE: RWY 27, LIGHT POLE AND ROD BEGINNING 1690 FT FROM DER, 759 FT RIGHT OF CENTERLINE, UP 60 FT AGL/100 FT MSL.
NOTE: RWY 33L, ELECTRICAL SYSTEMS, BUILDINGS, CHIMNEY ON BUILDING, AND TANK BEGINNING 796 FT FROM DER, 603 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/149 FT MSL. SIGN, WIND INDICATOR ON TOWER, AND TREES BEGINNING 248 FT FROM DER, 51 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/101 FT MSL. BRIDGE 1.4 NM FROM DER, 2568 FT LEFT OF CENTERLINE, 262 FT AGL/262 FT MSL.

CONTROLLING OBSTACLES:

RWY 9: 206 MSL TANK 422204.30N/0705803.73W.
RWY 22L: 176 MSL SHIP RIG 422041.00N/0710053.00W.
RWY 22R: 176 MSL SHIP RIG 422051.00N/0710110.00W.
RWY 27: 639 MSL BLDG 422120.28N/0710307.73W. 920 MSL BLDG 422050.00N/0710457.00W.
RWY 33L: 262 MSL BRIDGE 422308.76N/0710248.14W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KBOS 16W EPOCH YEAR: 95. DME/DME ASSESSMENT: SAT (RNP 2.0).

AIRPORTS SERVED:

GENERAL EDWARD LAWRENCE LOGAN INTL BOSTON, MA

COMMUNICATIONS:

ATIS, CLEARANCE DELIVERY, GROUND CONTROL, TOWER, DEPARTURE CONTROL

FIXES AND/OR NAVAIDS:

ACK VOR/DME, BEREI, BRRRO, BUCYK, CBEAR, COLYN, FENWY, ORRRR.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BRUWN	THREE	BRUWN3.BRUWN	TWO	18 NOV 10	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW04R (AER)*	422114.55N/0710037.27W*	N	-	-	-	-			*DISPL THLD (1154.0 FT)
520 MSL	-	-	-	VA	019.74	-			CG 500 FT/NM TO 3600
NHANT	422623.24N/0705759.97W	Y	FB	DF	-	-			
HURBE	422738.74N/0705107.04W	Y	FB	TF	076.09	5.25	AT/ABOVE 4000		
ORRRR	422528.48N/0704513.44W	Y	FB	TF	116.41	4.87			
FENWY	422238.40N/0704340.17W	Y	FB	TF	157.87	3.06			
BUCYK	421736.11N/0704101.52W	Y	FB	TF	158.71	5.40			
BRUWN	413609.68N/0701345.81W	Y	FB	TF	153.69	46.15			
RW09 (AER)	422120.72N/0710046.42W	N	-	-	-	-			
520 MSL	-	-	-	VA	076.56	-			CG 500 FT/NM TO 4000
CLAWW	422325.27N/0704847.67W	Y	FB	DF	-	-	AT/ABOVE 4000		
FENWY	422238.40N/0704340.17W	Y	FB	TF	101.59	3.88			
BUCYK	421736.11N/0704101.52W	Y	FB	TF	158.71	5.40			
BRUWN	413609.68N/0701345.81W	Y	FB	TF	153.69	46.15			
RW15R (AER)*	422221.20N/0710056.13W*	N	-	-	-	-			*DISPL THLD (881.0 FT)
-	422026.20N/0705822.01W	-	-	VI	135.16	2.70		AT/BELOW 210K	CG 500 FT/NM TO 520
FOXXX	421855.28N/0705410.54W	Y	FB	CF	116.00	3.46			VI/CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	4.64		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
BUCYK	421736.11N/0704101.52W	Y	FB	TF	114.65	5.77			
BRUWN	413609.68N/0701345.81W	Y	FB	TF	153.69	46.15			
RW22L (AER)*	422225.69N/0710002.84W*	N	-	-	-	-			*DISPL THLD (1199.0 FT)
-	422004.85N/0710110.98W	-	-	VI	199.74	2.49		AT/BELOW 210K	CG 500 FT/NM TO 520
TJAYY	421818.19N/0705737.75W	Y	FB	CF	124.00	3.18			VI/CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	7.28		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
BUCYK	421736.11N/0704101.52W	Y	FB	TF	114.65	5.77			
BRUWN	413609.68N/0701345.81W	Y	FB	TF	153.69	46.15			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BRUWN	THREE	BRUWN3.BRUWN	TWO	18 NOV 10	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW22R (AER)*	422234.26N/0710019.93W*	N	-	-	-	-			*DISPL THLD (815.0 FT)
-	422029.09N/0710120.47W	-	-	VI	199.74	2.22		AT/BELOW 210K	CG 500 FT/NM TO 520
TJAYY	421818.19N/0705737.75W	Y	FB	CF	128.40	3.51			VI/CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	7.28		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
BUCYK	421736.11N/0704101.52W	Y	FB	TF	114.65	5.77			
BRUWN	413609.68N/0701345.81W	Y	FB	TF	153.69	46.15			
RW27 (AER)	422136.78N/0705915.73W	N	-	-	-	-			
-	422058.84N/0710249.80W	-	-	VI	256.58	2.72			CG 500 FT/NM TO 1300
KIRAA	421631.48N/0710741.78W	Y	FB	CF	219.00	5.73			VI/CF PERMITTED
COLYN	420909.66N/0710224.39W	Y	FB	TF	151.87	8.34			RECOMMENDED NAVAID BOS VOR/DME
BEREI	420032.09N/0704820.74W	Y	FB	TF	129.39	13.56			
BRUWN	413609.68N/0701345.81W	Y	FB	TF	133.10	35.53			
RWY33L (AER)	422116.74N/0705929.71W	N	-	-	-	-			
-	422317.97N/0710212.28W	-	-	VI	315.18	2.85			CG 500 FT/NM TO 4900
TEKKK	422445.85N/0710555.09W	Y	FB	CF	298.00	3.12			VI/CF PERMITTED
COUSY	422117.92N/0711231.70W	Y	FB	TF	234.77	6.00	AT/ABOVE 5000		RECOMMENDED NAVAID BOS VOR/DME
CBEAR	421519.94N/0710936.29W	Y	FB	TF	160.00	6.35			
COLYN	420909.66N/0710224.39W	Y	FB	TF	139.03	8.17			
BEREI	420032.09N/0704820.74W	Y	FB	TF	129.39	13.56			
BRUWN	413609.68N/0701345.81W	Y	FB	TF	133.10	35.53			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BRUWN RNAV	THREE	BRUWN3.BRUWN	TWO	18 NOV 2010	07 MAR 2013

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAD        BOS   K6011270VDH  N42212682W070592237    N42212682W070592237W0160000202     NARBOSTON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BEREI K60    W     N42003209W070482074                      W0150     NAR           BEREI
        SUSAEAENRT   BRRRO K60    W     N42200078W070480548                      W0151     NAR           BRRRO
        SUSAEAENRT   BRUWN K60    C   B N41360968W070134581                      W0151     NAR           BRUWN
        SUSAEAENRT   BUCYK K60    W     N42173611W070410152                      W0151     NAR           BUCYK
        SUSAEAENRT   CBEAR K60    W     N42151994W071093629                      W0149     NAR           CBEAR
        SUSAEAENRT   CLAWW K60    W     N42232527W070484767                      W0151     NAR           CLAWW
        SUSAEAENRT   COLYN K60    W     N42090966W071022439                      W0149     NAR           COLYN
        SUSAEAENRT   COUSY K60    W     N42211792W071123170                      W0149     NAR           COUSY
        SUSAEAENRT   FENWY K60    W     N42223840W070434017                      W0151     NAR           FENWY
        SUSAEAENRT   FOXXX K60    W     N42185528W070541054                      W0150     NAR           FOXXX
        SUSAEAENRT   HURBE K60    W     N42273874W070510704                      W0151     NAR           HURBE
        SUSAEAENRT   KIRAA K60    W     N42163148W071074178                      W0149     NAR           KIRAA
        SUSAEAENRT   NHANT K60    W     N42262324W070575997                      W0150     NAR           NHANT
        SUSAEAENRT   ORRRR K60    W     N42252848W070451344                      W0151     NAR           ORRRR
        SUSAEAENRT   TEKKK K60    W     N42244585W071055509                      W0150     NAR           TEKKK
        SUSAEAENRT   TJAYY K60    W     N42181819W070573775                      W0150     NAR           TJAYY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6ABOS     0     100YHN42214670W071002310W016000020         1800018000C    MNAR    GENERAL EDWARD LAWRENCE LOGAN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6DBRUWN34RW04R 010         0        VA                       0357        + 00520     18000
        SUSAP KBOSK6DBRUWN34RW04R 020NHANTK6EA0E    010DF
        SUSAP KBOSK6DBRUWN34RW04R 030HURBEK6EA0E    010TF                       09210053    + 04000
        SUSAP KBOSK6DBRUWN34RW04R 040ORRRRK6EA0E    010TF                       13240049
        SUSAP KBOSK6DBRUWN34RW04R 050FENWYK6EA0E    010TF                       17390031
        SUSAP KBOSK6DBRUWN34RW04R 060BUCYKK6EA0E    010TF                       17470054
        SUSAP KBOSK6DBRUWN34RW04R 070BRUWNK6EA0EE   010TF                       16970462
        SUSAP KBOSK6DBRUWN34RW09  010         0        VA                       0926        + 00520     18000
        SUSAP KBOSK6DBRUWN34RW09  020CLAWWK6EA0E    010DF                                   + 04000
        SUSAP KBOSK6DBRUWN34RW09  030FENWYK6EA0E    010TF                       11760039
        SUSAP KBOSK6DBRUWN34RW09  040BUCYKK6EA0E    010TF                       17470054
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QUALITY CHECKED 4

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BRUWN RNAV	THREE	BRUWN3.BRUWN	TWO	18 NOV 2010	07 MAR 2013

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SUSAP KBOSK6DBRUWN34RW09  050BRUWNK6EA0EE  010TF                    16970462
SUSAP KBOSK6DBRUWN34RW15R 010          0     VI                    1512                    18000210              -
SUSAP KBOSK6DBRUWN34RW15R 020FOXXXK6EA0E  010CF BOS K6     1392004613200035D
SUSAP KBOSK6DBRUWN34RW15R 030BRRROK6EA0E  010TF                    09240046                     250              -
SUSAP KBOSK6DBRUWN34RW15R 040BUCYKK6EA0E  010TF                    13070058
SUSAP KBOSK6DBRUWN34RW15R 050BRUWNK6EA0EE 010TF                    16970462
SUSAP KBOSK6DBRUWN34RW22L 010          0     VI                    2157                    18000210              -
SUSAP KBOSK6DBRUWN34RW22L 020TJAYYK6EA0E  010CF BOS K6     1736003414000032D
SUSAP KBOSK6DBRUWN34RW22L 030BRRROK6EA0E  010TF                    09240073                     250              -
SUSAP KBOSK6DBRUWN34RW22L 040BUCYKK6EA0E  010TF                    13070058
SUSAP KBOSK6DBRUWN34RW22L 050BRUWNK6EA0EE 010TF                    16970462
SUSAP KBOSK6DBRUWN34RW22R 010          0     VI                    2157                    18000210              -
SUSAP KBOSK6DBRUWN34RW22R 020TJAYYK6EA0E  010CF BOS K6     1736003414440035D
SUSAP KBOSK6DBRUWN34RW22R 030BRRROK6EA0E  010TF                    09240073                     250              -
SUSAP KBOSK6DBRUWN34RW22R 040BUCYKK6EA0E  010TF                    13070058
SUSAP KBOSK6DBRUWN34RW22R 050BRUWNK6EA0EE 010TF                    16970462
SUSAP KBOSK6DBRUWN34RW27  010          0     VI                    2726                    18000
SUSAP KBOSK6DBRUWN34RW27  020KIRAAK6EA0E  010CF BOS K6     2475007923500057D
SUSAP KBOSK6DBRUWN34RW27  030COLYNK6EA0E  010TF                    16790083
SUSAP KBOSK6DBRUWN34RW27  040BEREIK6EA0E  010TF                    14540136
SUSAP KBOSK6DBRUWN34RW27  050BRUWNK6EA0EE 010TF                    14910355
SUSAP KBOSK6DBRUWN34RW33L 010          0     VI                    3312                    18000
SUSAP KBOSK6DBRUWN34RW33L 020TEKKKK6EA0E  010CF BOS K6     3204005931400031D
SUSAP KBOSK6DBRUWN34RW33L 030COUSYK6EA0E  010TF                    25080060    + 05000
SUSAP KBOSK6DBRUWN34RW33L 040CBEARK6EA0E  010TF                    17600064
SUSAP KBOSK6DBRUWN34RW33L 050COLYNK6EA0E  010TF                    15500082
SUSAP KBOSK6DBRUWN34RW33L 060BEREIK6EA0E  010TF                    14540136
SUSAP KBOSK6DBRUWN34RW33L 070BRUWNK6EA0EE 010TF                    14910355
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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6GRW04R   0100050357 N42211455W071003727+0000    -0022300018115451150IIBOS3
        SUSAP KBOSK6GRW09    0070000926 N42212072W071004642+0000    -0022600017000050150D
        SUSAP KBOSK6GRW15R   0100831512 N42222120W071005613+0000    -0022400017088160150IIMDC1
        SUSAP KBOSK6GRW22L   0100052157 N42222569W071000284+0000    -0022900016119955150IILQN1
        SUSAP KBOSK6GRW22R   0078612157 N42223426W071001993+0000    -0023000015081550150V
        SUSAP KBOSK6GRW27    0070002726 N42213678W070591573+0000    -0023200015000057150IIDGU1
        SUSAP KBOSK6GRW33L   0100833312 N42211674W070592971+0000    -0023100015000057150IILIP1
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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BRUWN RNAV	THREE	BRUWN3.BRUWN	TWO	18 NOV 2010	07 MAR 2013

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW04R		010		VA		FB		035.7()		AA 00520	
	RW04R	NHANT	020		DF		FB	1.0				
	RW04R	HURBE	030		TF		FB	1.0	092.1()	005.3	AA 04000	
	RW04R	ORRRR	040		TF		FB	1.0	132.4()	004.9		
	RW04R	FENWY	050		TF		FB	1.0	173.9()	003.1		
	RW04R	BUCYK	060		TF		FB	1.0	174.7()	005.4		
	RW04R	BRUWN	070		TF		FB	1.0	169.7()	046.2		
	RW09		010		VA		FB		092.6()		AA 00520	
	RW09	CLAWW	020		DF		FB	1.0			AA 04000	
	RW09	FENWY	030		TF		FB	1.0	117.6()	003.9		
	RW09	BUCYK	040		TF		FB	1.0	174.7()	005.4		
	RW09	BRUWN	050		TF		FB	1.0	169.7()	046.2		
	RW15R		010		VI		FB		151.2()			AB 210
	RW15R	FOXXX	020		CF		FB	1.0	132.0()	003.5		
	RW15R	BRRRO	030		TF		FB	1.0	092.4()	004.6		AB 250
	RW15R	BUCYK	040		TF		FB	1.0	130.7()	005.8		
	RW15R	BRUWN	050		TF		FB	1.0	169.7()	046.2		
	RW22L		010		VI		FB		215.7()			AB 210
	RW22L	TJAYY	020		CF		FB	1.0	140.0()	003.2		
	RW22L	BRRRO	030		TF		FB	1.0	092.4()	007.3		AB 250
	RW22L	BUCYK	040		TF		FB	1.0	130.7()	005.8		
	RW22L	BRUWN	050		TF		FB	1.0	169.7()	046.2		
	RW22R		010		VI		FB		215.7()			AB 210
	RW22R	TJAYY	020		CF		FB	1.0	144.4()	003.5		
	RW22R	BRRRO	030		TF		FB	1.0	092.4()	007.3		AB 250
	RW22R	BUCYK	040		TF		FB	1.0	130.7()	005.8		
	RW22R	BRUWN	050		TF		FB	1.0	169.7()	046.2		
	RW27		010		VI		FB		272.6()			
	RW27	KIRAA	020		CF		FB	1.0	235.0()	005.7		
	RW27	COLYN	030		TF		FB	1.0	167.9()	008.3		
	RW27	BEREI	040		TF		FB	1.0	145.4()	013.6		
	RW27	BRUWN	050		TF		FB	1.0	149.1()	035.5		
	RW33L		010		VI		FB		331.2()			
	RW33L	TEKKK	020		CF		FB	1.0	314.0()	003.1		
	RW33L	COUSY	030		TF		FB	1.0	250.8()	006.0	AA 05000	
	RW33L	CBEAR	040		TF		FB	1.0	176.0()	006.4		
	RW33L	COLYN	050		TF		FB	1.0	155.0()	008.2		
	RW33L	BEREI	060		TF		FB	1.0	145.4()	013.6		
	RW33L	BRUWN	070		TF		FB	1.0	149.1()	035.5		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BRUWN RNAV	THREE	BRUWN3.BRUWN	TWO	18 NOV 2010	07 MAR 2013

BOS	N422126.82	W0705922.37	N4221.447	W07059.373
BEREI	N420032.09	W0704820.74	N4200.535	W07048.346
BRRRO	N422000.78	W0704805.48	N4220.013	W07048.091
BRUWN	N413609.68	W0701345.81	N4136.161	W07013.764
BUCYK	N421736.11	W0704101.52	N4217.602	W07041.025
CBEAR	N421519.94	W0710936.29	N4215.332	W07109.605
CLAWW	N422325.27	W0704847.67	N4223.421	W07048.795
COLYN	N420909.66	W0710224.39	N4209.161	W07102.407
COUSY	N422117.92	W0711231.70	N4221.299	W07112.528
FENWY	N422238.40	W0704340.17	N4222.640	W07043.670
FOXXX	N421855.28	W0705410.54	N4218.921	W07054.176
HURBE	N422738.74	W0705107.04	N4227.646	W07051.117
KIRAA	N421631.48	W0710741.78	N4216.525	W07107.696
NHANT	N422623.24	W0705759.97	N4226.387	W07058.000
ORRRR	N422528.48	W0704513.44	N4225.475	W07045.224
TEKKK	N422445.85	W0710555.09	N4224.764	W07105.918
TJAYY	N421818.19	W0705737.75	N4218.303	W07057.629
RW04R	N422114.55	W0710037.27	N4221.243	W07100.621
RW09	N422120.72	W0710046.42	N4221.345	W07100.774
RW15R	N422221.20	W0710056.13	N4222.353	W07100.936
RW22L	N422225.69	W0710002.84	N4222.428	W07100.047
RW22R	N422234.26	W0710019.93	N4222.571	W07100.332
RW27	N422136.78	W0705915.73	N4221.613	W07059.262
RW33L	N422116.74	W0705929.71	N4221.279	W07059.495

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW04R	00018	51
RW09	00017	50
RW15R	00017	60
RW22L	00016	55
RW22R	00015	50
RW27	00015	57
RW33L	00015	57

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BLZZR	TWO	BLZZR2.BLZZR	ONE	12 JAN 11	07 MAR 2013

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 4R: CLIMB HEADING 035.74 TO 520, THEN DIRECT NHANT, THEN ON TRACK 092.09 TO CROSS HURBE AT OR ABOVE 4000, THENCE...
TAKEOFF RWY 9: CLIMB HEADING 092.56 TO 520, THEN DIRECT CLAWW, CROSS CLAWW AT OR ABOVE 4000, THENCE...
TAKEOFF RWY 15R: CLIMB HEADING 151.16 TO INTERCEPT COURSE 132.00 TO FOXXX, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 22L: CLIMB HEADING 215.74 TO INTERCEPT COURSE 140.00 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 22R: CLIMB HEADING 215.74 TO INTERCEPT COURSE 144.40 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...
TAKEOFF RWY 27: CLIMB HEADING 272.58 TO INTERCEPT COURSE 235.00 TO KIRAA, THENCE...
TAKEOFF RWY 33L: CLIMB HEADING 331.18 TO INTERCEPT COURSE 314.00 TO TEKKK, THENCE...

...ON DEPICTED ROUTE TO BLZZR. MAINTAIN 5000 OR LOWER ASSIGNED ALTITUDE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: RNAV 1.
NOTE: FOR TURBOJETS ONLY.
NOTE: DEPARTURE HDG/RNAV TRACKS/VECTORS ARE PREDICATED ON AVOIDING NOISE SENSITIVE AREAS. FLIGHT CREW AWARENESS AND COMPLIANCE IS IMPORTANT IN MINIMIZING NOISE IMPACTS ON SURROUNDING COMMUNITIES.
NOTE: RWY 15R, 22L, 22R: DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL.
NOTE: AT/BELOW 250K UNTIL BRRRO.
NOTE: AT/BELOW 290K UNTIL HEWMO.

TAKEOFF MINIMUMS: RWY 4L, 14, 15L, 32, 33R, NA-ATC.
RWY 4R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3600.
RWY 9, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 4000.
RWY 15R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.
RWY 22L, 300-1 WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, OR STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520 IF TOWER REPORTS NO TALL VESSELS IN THE DEPARTURE AREA.
RWY 22R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.
RWY 27, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1300.
RWY 33L, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 520.

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BLZZR	TWO	BLZZR2.BLZZR	ONE	12 JAN 11	07 MAR 2013

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 4R, SHIPS BEGINNING 579 FT FROM DER, ON CENTERLINE, UP TO 50 FT AGL/50 FT MSL. POLE AND TREES BEGINNING 1806 FT FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/79 FT MSL.
NOTE: RWY 9, SHIPS 762 FT FROM DER, ON CENTERLINE, UP TO 65 FT AGL/65 FT MSL. TANK 5904 FT FROM DER, 1453 FT LEFT OF CENTERLINE, 109 FT AGL/206 FT MSL.
NOTE: RWY 15R, SIGN 45 FT FROM DER, 267 FT RIGHT OF CENTERLINE, 6 FT AGL/16 FT MSL.
NOTE: RWY 22L, POLE 394 FT FROM DER, ON CENTERLINE, 15 FT AGL/31 FT MSL. TOWER 3585 FT FROM DER, 926 FT LEFT OF CENTERLINE, 108 FT AGL/128 FT MSL. MOBILE CRANE 3675 FT FROM DER, 439 FT RIGHT OF CENTERLINE, 122 FT AGL/145 FT MSL. SHIP RIG 2440 FT FROM DER, 34 FT LEFT OF CENTERLINE, 176 FT AGL/176 FT MSL.
NOTE: RWY 22R, SHIP RIG 4064 FT FROM DER, 8 FT RIGHT OF CENTERLINE, 176 FT AGL/176 FT MSL. STACKS BEGINNING 1.4 NM FROM DER, 2795 FT RIGHT OF CENTERLINE, UP TO 320 FT AGL/335 FT MSL.
NOTE: RWY 27, LIGHT POLE AND ROD BEGINNING 1690 FT FROM DER, 759 FT RIGHT OF CENTERLINE, UP 60 FT AGL/100 FT MSL.
NOTE: RWY 33L, ELECTRICAL SYSTEMS, BUILDINGS, CHIMNEY ON BUILDING, AND TANK BEGINNING 796 FT FROM DER, 603 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/149 FT MSL. SIGN, WIND INDICATOR ON TOWER, AND TREES BEGINNING 248 FT FROM DER, 51 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/101 FT MSL. BRIDGE 1.4 NM FROM DER, 2568 FT LEFT OF CENTERLINE, 262 FT AGL/262 FT MSL.

CONTROLLING OBSTACLES:

RWY 9: 206 MSL TANK 422204.30N/0705803.73W.
RWY 22L: 176 MSL SHIP RIG 422041.00N/0710053.00W.
RWY 22R: 176 MSL SHIP RIG 422051.00N/0710110.00W.
RWY 27: 639 MSL BLDG 422120.28N/0710307.73W. 920 MSL BLDG 422050.00N/0710457.00W.
RWY 33L: 262 MSL BRIDGE 422308.76N/0710248.14W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KBOS 16W EPOCH YEAR: 95. DME/DME ASSESSMENT: SAT (RNP 2.0).

AIRPORTS SERVED:

GENERAL EDWARD LAWRENCE LOGAN INTL BOSTON, MA

COMMUNICATIONS:

ATIS, CLEARANCE DELIVERY, GROUND CONTROL, TOWER, DEPARTURE CONTROL

FIXES AND/OR NAVAIDS:

BAF VORTAC, BRRRO, CHWDH, CTR VOR/DME, DEDHM, EXXXX, FENWY, GLLET, HEWMO, JAITE, KENWI, NELIE, ORRRR, SPENO, STEEM, WYMTH.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BLZZR	TWO	BLZZR2.BLZZR	ONE	12 JAN 11	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW04R (AER)*	422114.55N/0710037.27W*	N	-	-	-	-			*DISPL THLD (1154.0 FT)
520 MSL	-	-	-	VA	019.74	-			CG 500 FT/NM TO 3600
NHANT	422623.24N/0705759.97W	Y	FB	DF	-	-			
HURBE	422738.74N/0705107.04W	Y	FB	TF	076.09	5.25	AT/ABOVE 4000		
ORRRR	422528.48N/0704513.44W	Y	FB	TF	116.41	4.87			
CHWDH	421815.54N/0704346.94W	Y	FB	TF	171.56	7.29			
STEEM	421431.29N/0704932.29W	Y	FB	TF	228.87	5.68			
DEDHM	421144.30N/0705657.03W	Y	FB	TF	243.24	6.17			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	272.33	36.19			
RW09 (AER)	422120.72N/0710046.42W	N	-	-	-	-			
520 MSL	-	-	-	VA	076.56	-			CG 500 FT/NM TO 4000
CLAWW	422325.27N/0704847.67W	Y	FB	DF	-	-	AT/ABOVE 4000		
FENWY	422238.40N/0704340.17W	Y	FB	TF	101.59	3.88			
GLLET	421624.05N/0704321.25W	Y	FB	TF	177.85	6.24			
WYMTH	421244.02N/0704937.63W	Y	FB	TF	231.84	5.93			
DEDHM	421144.30N/0705657.03W	Y	FB	TF	259.68	5.53			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	272.33	36.19			
RW15R (AER)*	422221.20N/0710056.13W*	N	-	-	-	-			*DISPL THLD (881.0 FT)
-	422026.20N/0705822.01W	-	-	VI	135.16	2.70		AT/BELOW 210K	CG 500 FT/NM TO 520
FOXXX	421855.28N/0705410.54W	Y	FB	CF	116.00	3.46			VI CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	4.64		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
JAITE	421812.90N/0704249.48W	Y	FB	TF	114.67	4.30			
HEWMO	421116.32N/0704400.45W	Y	FB	TF	187.22	7.00		AT/BELOW 290K	
KENWI	420934.89N/0705626.99W	Y	FB	TF	259.72	9.40			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	275.68	36.71			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BLZZR	TWO	BLZZR2.BLZZR	ONE	12 JAN 11	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW22L (AER)*	422225.69N/0710002.84W*	N	-	-	-	-			*DISPL THLD (1199.0 FT)
-	422004.85N/0710110.98W	-	-	VI	199.74	2.49		AT/BELOW 210K	CG 500 FT/NM TO 520
TJAYY	421818.19N/0705737.75W	Y	FB	CF	124.00	3.18			VI CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	7.28		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
JAITE	421812.90N/0704249.48W	Y	FB	TF	114.67	4.30			
HEWMO	421116.32N/0704400.45W	Y	FB	TF	187.22	7.00		AT/BELOW 290K	
KENWI	420934.89N/0705626.99W	Y	FB	TF	259.72	9.40			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	275.68	36.71			
RW22R (AER)*	422234.26N/0710019.93W*	N	-	-	-	-			*DISPL THLD (815.0 FT)
-	422029.09N/0710120.47W	-	-	VI	199.74	2.22		AT/BELOW 210K	CG 500 FT/NM TO 520
TJAYY	421818.19N/0705737.75W	Y	FB	CF	128.40	3.51			VI CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	7.28		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
JAITE	421812.90N/0704249.48W	Y	FB	TF	114.67	4.30			
HEWMO	421116.32N/0704400.45W	Y	FB	TF	187.22	7.00		AT/BELOW 290K	
KENWI	420934.89N/0705626.99W	Y	FB	TF	259.72	9.40			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	275.68	36.71			
RW27 (AER)	422136.78N/0705915.73W	N	-	-	-	-			CG 500 FT/NM TO 1300
-	422058.84N/0710249.80W	-	-	VI	256.58	2.72			VI CF PERMITTED
KIRAA	421631.48N/0710741.78W	Y	FB	CF	219.00	5.73			RECOMMENDED NAVAID BOS VOR/DME
BLZZR	421302.39N/0714536.59W	Y	FB	TF	263.16	28.37			
RWY33L (AER)	422116.74N/0705929.71W	N	-	-	-	-			CG 500 FT/NM TO 520
-	422317.97N/0710212.28W	-	-	VI	315.18	2.85			VI CF PERMITTED
TEKKK	422445.85N/0710555.09W	Y	FB	CF	298.00	3.12			RECOMMENDED NAVAID BOS VOR/DME
EXXXX	422037.08N/0712104.57W	Y	FB	TF	249.84	11.97			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	247.55	19.72			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BLZZR RNAV	TWO	BLZZR2.BLZZR	ONE	12 JAN 2011	07 MAR 2013

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BOS   K6011270VDH  N42212682W070592237    N42212682W070592237W0160000202     NARBOSTON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BLZZR K60    C   B N42130239W071453659                      W0146     NAR           BLZZR
        SUSAEAENRT   BRRRO K60    W     N42200078W070480548                      W0151     NAR           BRRRO
        SUSAEAENRT   CHWDH K60    W     N42181554W070434694                      W0151     NAR           CHWDH
        SUSAEAENRT   CLAWW K60    W     N42232527W070484767                      W0151     NAR           CLAWW
        SUSAEAENRT   DEDHM K60    W     N42114430W070565703                      W0150     NAR           DEDHM
        SUSAEAENRT   EXXXX K60    W     N42203708W071210457                      W0148     NAR           EXXXX
        SUSAEAENRT   FENWY K60    W     N42223840W070434017                      W0151     NAR           FENWY
        SUSAEAENRT   FOXXX K60    W     N42185526W070541054                      W0150     NAR           FOXXX
        SUSAEAENRT   GLLET K60    W     N42162405W070432125                      W0151     NAR           GLLET
        SUSAEAENRT   HEWMO K60    W     N42111632W070440045                      W0151     NAR           HEWMO
        SUSAEAENRT   HURBE K60    W     N42273874W070510704                      W0151     NAR           HURBE
        SUSAEAENRT   JAITE K60    W     N42181290W070424948                      W0151     NAR           JAITE
        SUSAEAENRT   KENWI K60    W     N42093489W070562699                      W0150     NAR           KENWI
        SUSAEAENRT   KIRAA K60    W     N42163148W071074178                      W0149     NAR           KIRAA
        SUSAEAENRT   NHANT K60    W     N42262324W070575997                      W0150     NAR           NHANT
        SUSAEAENRT   ORRRR K60    W     N42252848W070451344                      W0151     NAR           ORRRR
        SUSAEAENRT   STEEM K60    W     N42143129W070493229                      W0150     NAR           STEEM
        SUSAEAENRT   TEKKK K60    W     N42244585W071055509                      W0150     NAR           TEKKK
        SUSAEAENRT   TJAYY K60    W     N42181819W070573775                      W0150     NAR           TJAYY
        SUSAEAENRT   WYMTH K60    W     N42124402W070493763                      W0150     NAR           WYMTH

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6ABOS     0     100YHN42214670W071002310W016000020         1800018000C    MNAR    GENERAL EDWARD LAWRENCE LOGAN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6DBLZZR24RW04R 010         0        VA                 0357        + 00520    18000
        SUSAP KBOSK6DBLZZR24RW04R 020NHANTK6EA0E    010DF
        SUSAP KBOSK6DBLZZR24RW04R 030HURBEK6EA0E    010TF                 09210053    + 04000
        SUSAP KBOSK6DBLZZR24RW04R 040ORRRRK6EA0E    010TF                 13240049
        SUSAP KBOSK6DBLZZR24RW04R 050CHWDHK6EA0E    010TF                 18760073
        SUSAP KBOSK6DBLZZR24RW04R 060STEEMK6EA0E    010TF                 24490057
        SUSAP KBOSK6DBLZZR24RW04R 070DEDHMK6EA0E    010TF                 25920062
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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BLZZR RNAV	TWO	BLZZR2.BLZZR	ONE	12 JAN 2011	07 MAR 2013

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SUSAP KBOSK6DBLZZR24RW04R 080BLZZRK6EA0EE   010TF                    28830362
SUSAP KBOSK6DBLZZR24RW09  010         0       VA                     0926        + 00520     18000
SUSAP KBOSK6DBLZZR24RW09  020CLAWWK6EA0E    010DF                                + 04000
SUSAP KBOSK6DBLZZR24RW09  030FENWYK6EA0E    010TF                    11760039
SUSAP KBOSK6DBLZZR24RW09  040GLLETK6EA0E    010TF                    19390062
SUSAP KBOSK6DBLZZR24RW09  050WYMTHK6EA0E    010TF                    24780059
SUSAP KBOSK6DBLZZR24RW09  060DEDHMK6EA0E    010TF                    27570055
SUSAP KBOSK6DBLZZR24RW09  070BLZZRK6EA0EE   010TF                    28830362
SUSAP KBOSK6DBLZZR24RW15R 010         0       VI                     1512                    18000210              -
SUSAP KBOSK6DBLZZR24RW15R 020FOXXXK6EA0E    010CF BOS K6      1392004613200035D
SUSAP KBOSK6DBLZZR24RW15R 030BRRROK6EA0E    010TF                    09240046                     250              -
SUSAP KBOSK6DBLZZR24RW15R 040JAITEK6EA0E    010TF                    13070043
SUSAP KBOSK6DBLZZR24RW15R 050HEWMOK6EA0E    010TF                    20320070                     290              -
SUSAP KBOSK6DBLZZR24RW15R 060KENWIK6EA0E    010TF                    27570094
SUSAP KBOSK6DBLZZR24RW15R 070BLZZRK6EA0EE   010TF                    29170367
SUSAP KBOSK6DBLZZR24RW22L 010         0       VI                     2157                    18000210              -
SUSAP KBOSK6DBLZZR24RW22L 020TJAYYK6EA0E    010CF BOS K6      1736003414000032D
SUSAP KBOSK6DBLZZR24RW22L 030BRRROK6EA0E    010TF                    09240073                     250              -
SUSAP KBOSK6DBLZZR24RW22L 040JAITEK6EA0E    010TF                    13070043
SUSAP KBOSK6DBLZZR24RW22L 050HEWMOK6EA0E    010TF                    20320070                     290              -
SUSAP KBOSK6DBLZZR24RW22L 060KENWIK6EA0E    010TF                    27570094
SUSAP KBOSK6DBLZZR24RW22L 070BLZZRK6EA0EE   010TF                    29170367
SUSAP KBOSK6DBLZZR24RW22R 010         0       VI                     2157                    18000210              -
SUSAP KBOSK6DBLZZR24RW22R 020TJAYYK6EA0E    010CF BOS K6      1736003414440035D
SUSAP KBOSK6DBLZZR24RW22R 030BRRROK6EA0E    010TF                    09240073                     250              -
SUSAP KBOSK6DBLZZR24RW22R 040JAITEK6EA0E    010TF                    13070043
SUSAP KBOSK6DBLZZR24RW22R 050HEWMOK6EA0E    010TF                    20320070                     290              -
SUSAP KBOSK6DBLZZR24RW22R 060KENWIK6EA0E    010TF                    27570094
SUSAP KBOSK6DBLZZR24RW22R 070BLZZRK6EA0EE   010TF                    29170367
SUSAP KBOSK6DBLZZR24RW27  010         0       VI                     2726                    18000
SUSAP KBOSK6DBLZZR24RW27  020KIRAAK6EA0E    010CF BOS K6      2475007923500057D
SUSAP KBOSK6DBLZZR24RW27  030BLZZRK6EA0EE   010TF                    27920284
SUSAP KBOSK6DBLZZR24RW33L 010         0       VI                     3312                    18000
SUSAP KBOSK6DBLZZR24RW33L 020TEKKKK6EA0E    010CF BOS K6      3204005931400031D
SUSAP KBOSK6DBLZZR24RW33L 030EXXXXK6EA0E    010TF                    26580120
SUSAP KBOSK6DBLZZR24RW33L 040BLZZRK6EA0EE   010TF                    26360197
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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBOSK6GRW04R   0100050357 N42211455W071003727+0000    -0022300018115451150IIBOS3
        SUSAP KBOSK6GRW09    0070000926 N42212072W071004642+0000    -0022600017000050150D
        SUSAP KBOSK6GRW15R   0100831512 N42222120W071005613+0000    -0022400017088160150IIMDC1
        SUSAP KBOSK6GRW22L   0100052157 N42222569W071000284+0000    -0022900016119955150IILQN1
        SUSAP KBOSK6GRW22R   0078612157 N42223426W071001993+0000    -0023000015081550150V
        SUSAP KBOSK6GRW27    0070002726 N42213678W070591573+0000    -0023200015000057150IIDGU1
        SUSAP KBOSK6GRW33L   0100833312 N42211674W070592971+0000    -0023100015000057150IILIP1
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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BLZZR RNAV	TWO	BLZZR2.BLZZR	ONE	12 JAN 2011	07 MAR 2013

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW04R		010		VA		FB		035.7()		AA 00520	
	RW04R	NHANT	020		DF		FB	1.0				
	RW04R	HURBE	030		TF		FB	1.0	092.1()	005.3	AA 04000	
	RW04R	ORRRR	040		TF		FB	1.0	132.4()	004.9		
	RW04R	CHWDH	050		TF		FB	1.0	187.6()	007.3		
	RW04R	STEEM	060		TF		FB	1.0	244.9()	005.7		
	RW04R	DEDHM	070		TF		FB	1.0	259.2()	006.2		
	RW04R	BLZZR	080		TF		FB	1.0	288.3()	036.2		
	RW09		010		VA		FB		092.6()		AA 00520	
	RW09	CLAWW	020		DF		FB	1.0			AA 04000	
	RW09	FENWY	030		TF		FB	1.0	117.6()	003.9		
	RW09	GLLET	040		TF		FB	1.0	193.9()	006.2		
	RW09	WYMTH	050		TF		FB	1.0	247.8()	005.9		
	RW09	DEDHM	060		TF		FB	1.0	275.7()	005.5		
	RW09	BLZZR	070		TF		FB	1.0	288.3()	036.2		
	RW15R		010		VI		FB		151.2()			AB 210
	RW15R	FOXXX	020		CF		FB	1.0	132.0()	003.5		
	RW15R	BRRRO	030		TF		FB	1.0	092.4()	004.6		AB 250
	RW15R	JAITE	040		TF		FB	1.0	130.7()	004.3		
	RW15R	HEWMO	050		TF		FB	1.0	203.2()	007.0		AB 290
	RW15R	KENWI	060		TF		FB	1.0	275.7()	009.4		
	RW15R	BLZZR	070		TF		FB	1.0	291.7()	036.7		
	RW22L		010		VI		FB		215.7()			AB 210
	RW22L	TJAYY	020		CF		FB	1.0	140.0()	003.2		
	RW22L	BRRRO	030		TF		FB	1.0	092.4()	007.3		AB 250
	RW22L	JAITE	040		TF		FB	1.0	130.7()	004.3		
	RW22L	HEWMO	050		TF		FB	1.0	203.2()	007.0		AB 290
	RW22L	KENWI	060		TF		FB	1.0	275.7()	009.4		
	RW22L	BLZZR	070		TF		FB	1.0	291.7()	036.7		
	RW22R		010		VI		FB		215.7()			AB 210
	RW22R	TJAYY	020		CF		FB	1.0	144.4()	003.5		
	RW22R	BRRRO	030		TF		FB	1.0	092.4()	007.3		AB 250
	RW22R	JAITE	040		TF		FB	1.0	130.7()	004.3		
	RW22R	HEWMO	050		TF		FB	1.0	203.2()	007.0		AB 290
	RW22R	KENWI	060		TF		FB	1.0	275.7()	009.4		
	RW22R	BLZZR	070		TF		FB	1.0	291.7()	036.7		
	RW27		010		VI		FB		272.6()			
	RW27	KIRAA	020		CF		FB	1.0	235.0()	005.7		
	RW27	BLZZR	030		TF		FB	1.0	279.2()	028.4		
	RW33L		010		VI		FB		331.2()			
	RW33L	TEKKK	020		CF		FB	1.0	314.0()	003.1		
	RW33L	EXXXX	030		TF		FB	1.0	265.8()	012.0		

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BLZZR RNAV	TWO	BLZZR2.BLZZR	ONE	12 JAN 2011	07 MAR 2013

RW33L BLZZR 040 TF FB 1.0 263.6() 019.7

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
BOS	N422126.82	W0705922.37	N4221.447	W07059.373
BLZZR	N421302.39	W0714536.59	N4213.040	W07145.610
BRRRO	N422000.78	W0704805.48	N4220.013	W07048.091
CHWDH	N421815.54	W0704346.94	N4218.259	W07043.782
CLAWW	N422325.27	W0704847.67	N4223.421	W07048.795
DEDHM	N421144.30	W0705657.03	N4211.738	W07056.951
EXXXX	N422037.08	W0712104.57	N4220.618	W07121.076
FENWY	N422238.40	W0704340.17	N4222.640	W07043.670
FOXXX	N421855.28	W0705410.54	N4218.921	W07054.176
GLLET	N421624.05	W0704321.25	N4216.401	W07043.354
HEWMO	N421116.32	W0704400.45	N4211.272	W07044.008
HURBE	N422738.74	W0705107.04	N4227.646	W07051.117
JAITE	N421812.90	W0704249.48	N4218.215	W07042.825
KENWI	N420934.89	W0705626.99	N4209.582	W07056.450
KIRAA	N421631.48	W0710741.78	N4216.525	W07107.696
NHANT	N422623.24	W0705759.97	N4226.387	W07058.000
ORRRR	N422528.48	W0704513.44	N4225.475	W07045.224
STEEM	N421431.29	W0704932.29	N4214.522	W07049.538
TEKKK	N422445.85	W0710555.09	N4224.764	W07105.918
TJAYY	N421818.19	W0705737.75	N4218.303	W07057.629
WYMTH	N421244.02	W0704937.63	N4212.734	W07049.627
RW04R	N422114.55	W0710037.27	N4221.243	W07100.621
RW09	N422120.72	W0710046.42	N4221.345	W07100.774
RW15R	N422221.20	W0710056.13	N4222.353	W07100.936
RW22L	N422225.69	W0710002.84	N4222.428	W07100.047
RW22R	N422234.26	W0710019.93	N4222.571	W07100.332
RW27	N422136.78	W0705915.73	N4221.613	W07059.262
RW33L	N422116.74	W0705929.71	N4221.279	W07059.495

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW04R	00018	51
RW09	00017	50
RW15R	00017	60
RW22L	00016	55
RW22R	00015	50
RW27	00015	57
RW33L	00015	57

QUALITY CHECKED

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FEDRA	TWO	FEDRA2.FEDRA	ONE	20 SEP 12	07 MAR 2013

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17L: CLIMB HEADING 167.91 TO 1020, THEN DIRECT DROPA, THEN ON DEPICTED ROUTE TO FEDRA, THENCE...
TAKEOFF RWY 17R: CLIMB HEADING 168.40 TO INTERCEPT COURSE 183.48 TO LEENE, THEN ON DEPICTED ROUTE TO FEDRA, THENCE...
TAKEOFF RWY 29: CLIMB HEADING 294.13 TO INTERCEPT COURSE 267.80 TO GADSN, THEN ON DEPICTED ROUTE TO FEDRA, THENCE...
TAKEOFF RWY 35L: CLIMB HEADING 348.40 TO INTERCEPT COURSE 332.70 TO RRROE, THEN ON DEPICTED COURSE TO FEDRA, THENCE...
TAKEOFF RWY 35R: CLIMB HEADING 347.92 TO 1020, THEN DIRECT GRIPZ, THEN ON DEPICTED ROUTE TO FEDRA, THENCE...

...(TRANSITION). MAINTAIN 5000, EXPECT CLEARANCE TO FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
SHIPR	FEDRA2.SHIPR	FEDRA	SHIPR	TRACK 101.87	30.06	13000	3000	
OHAGI	FEDRA2.OHAGI	FEDRA	OHAGI	TRACK 125.00	20.00	FL180	3100	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RNAV 1.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: FOR TURBOJET AIRCRAFT ONLY.
NOTE: IF UNABLE TO ACCEPT CLIMB RATE, ADVISE ATC ON INITIAL CONTACT.
NOTE: TRANSPONDER CODE WILL BE ISSUED VIA PDC OR LOUISVILLE CLEARANCE DELIVERY.

RWY 11, NA-AIR TRAFFIC.
RWY 17L, 17R, 29, 35L, 35R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1020.

TAKEOFF OBSTACLES NOTES:

RWY 17L, LIGHT TOWER 622 FT FROM DER, 643 FT RIGHT OF CENTERLINE, 25 FT AGL/496 FT MSL. OBSTRUCTION LIGHT ON DME 498 FT FROM DER, 299 FT RIGHT OF CENTERLINE, 14 FT AGL/485 FT MSL. MULTIPLE TREES AND LIGHTED TOWERS BEGINNING 328 FT FROM DER, 302 FT LEFT OF CENTERLINE, UP TO 89 FT AGL/560 FT MSL. SIGN 723 FT FROM DER, 637 FT LEFT OF CENTERLINE, 26 FT AGL/497 FT MSL.
RWY 17R, POLE 748 FT FROM DER, 664 FT RIGHT OF CENTERLINE, 24 FT AGL/505 FT MSL. POLE 666 FT FROM DER, 336 FT LEFT OF CENTERLINE, 24 FT AGL/496 FT MSL.
RWY 29, TREE 1257 FT FROM DER, 809 FT LEFT OF CENTERLINE, 69 FT AGL/550 FT MSL. STACK 1213 FT FROM DER, 329 FT LEFT OF CENTERLINE, 37 FT AGL/518 FT MSL. POLES BEGINNING 873 FT FROM DER, 223 FT LEFT OF CENTERLINE, UP TO 29 FT AGL/509 FT MSL. TREES BEGINNING 1033 FT FROM DER, 73 FT RIGHT OF CENTERLINE, 73 FT AGL/571 FT MSL. OBSTRUCTION LIGHT ON GLIDESLOPE 474 FT FROM DER, 398 FT RIGHT OF CENTERLINE, 49 FT AGL/526 FT MSL. POLE 1255 FT FROM DER, 760 FT RIGHT OF CENTERLINE, 29 FT AGL/515 FT MSL.
RWY 35L, POLES BEGINNING 686 FT FROM DER, 116 FT LEFT OF CENTERLINE, UP TO 38 FT AGL/541 FT MSL. LIGHTED TOWER 258 FT FROM DER, 261 FT LEFT OF CENTERLINE 44 FT AGL/500 FT MSL. POLES BEGINNING 270 FT FROM DER, 230 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/526 FT MSL. TREES BEGINNING 1596 FT FROM DER, 260 FT RIGHT OF CENTERLINE UP TO 86 FT AGL/560 FT MSL.

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FEDRA	TWO	FEDRA2.FEDRA	ONE	20 SEP 12	07 MAR 2013

RWY 35R, MULTIPLE TREES AND POLES BEGINNING 542 FT FROM DER, 303 FT RIGHT OF CENTERLINE UP TO 88 FT AGL/580 FT MSL.

CONTROLLING OBSTACLES:

RWY 17L/17R: 1067 FT MSL TOWER, 380628.00N/0854246.00W

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KSDF 3W EPOCH YR: 1995.
DME/DME ASSESSMENT: SAT (RNP 2.0).

AIRPORTS SERVED:

LOUISVILLE INTL-STANDIFORD FIELD LOUISVILLE, KY

COMMUNICATIONS:

ATIS, GND CON, CLNC DEL, DEP CON, TOWER

FIXES AND/OR NAVAIDS:

FRATE, PKAGE, LUUKE, IAMUR, FADDR, LLAWS, GLDIE, SIXMI, BAALK

REMARKS:

CLIMB GRADIENTS REQUIRED TO SUPPORT RNAV-PRO DME/DME/IRU LIMITATIONS.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FEDRA	TWO	FEDRA2.FEDRA	ONE	20 SEP 12	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW17L (AER)*	381111.14N/0854351.76W*	-	-	-	-	-			*DISPL THLD (329 FT)
1020 MSL	-	-	-	VA	164.91	-			CG 500 FT/NM TO 1020
DROPA	380502.41N/0854145.98W	Y	FB	DF	-	-			
FRATE	380417.35N/0851722.92W	Y	FB	TF	092.11	19.27			
FEDRA	380244.41N/0850601.98W	Y	FB	TF	099.74	9.10			
RW17R (AER)*	381105.07N/0854452.95W*	N	-	-	-	-			*DISPL THLD (850 FT)
	380814.49N/0854356.69W	-	-	VI	165.40	2.93			CG 500 FT/NM TO 1020
LEENE	380442.68N/0854358.94W	Y	FB	CF	180.48	3.53			RECOMMENDED NAVAID LOZ VORTAC
PKAGE	380426.38N/0853421.51W	Y	FB	TF	092.00	7.60			VI/CF PERMITTED
FRATE	380417.35N/0851722.92W	Y	FB	TF	090.56	13.41			
FEDRA	380244.41N/0850601.98W	Y	FB	TF	099.74	9.10			
RW29 (AER)	381022.99N/0854325.77W	N	-	-	-	-			
	381117.13N/0854623.38W	-	-	VI	291.13	2.50			CG 500 FT/NM TO 1020
GADSN	381102.35N/0854949.85W	Y	FB	CF	264.80	2.72			RECOMMENDED NAVAID LOZ VORTAC
LUUKE	381044.12N/0855402.21W	Y	FB	TF	264.79	3.33			VI/CF PERMITTED
IAMUR	380356.96N/0855412.99W	Y	FB	TF	181.20	6.78			
FADDR	380329.97N/0854234.40W	Y	FB	TF	092.74	9.21			
FRATE	380417.35N/0851722.92W	Y	FB	TF	087.60	19.91			
FEDRA	380244.41N/0850601.98W	Y	FB	TF	099.74	9.10			
RW35L (AER)*	380929.41N/0854421.38W*	N	-	-	-	-			*DISPL THLD (1040 FT)
	381212.98N/0854515.38W	-	-	VI	345.40	2.81			CG 500 FT/NM TO 1020
RRROE	381635.70N/0854829.90W	Y	FB	CF	329.70	5.07			RECOMMENDED NAVAID LOZ VORTAC
LLAWS	382007.17N/0854140.79W	Y	FB	TF	056.70	6.42			VI/CF PERMITTED
GLDIE	380527.92N/0852606.74W	Y	FB	TF	139.95	19.10			
FRATE	380417.35N/0851722.92W	Y	FB	TF	099.63	6.99			
FEDRA	380244.41N/0850601.98W	Y	FB	TF	099.74	9.10			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FEDRA	TWO	FEDRA2.FEDRA	ONE	20 SEP 12	07 MAR 2013

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW35R (AER)*	380956.70N/0854326.34W*	N	-	-	-	-			*DISPL THLD (450 FT)
1020 MSL		-	-	VA	344.92	-			CG 500 FT/NM TO 1020
GRIPZ	381311.90N/0854433.00W	Y	FB	DF	-	-			
BAALK	381531.67N/0854520.85W	Y	FB	TF	344.89	2.41			
SIXMI	381834.12N/0853924.41W	Y	FB	TF	056.97	5.58			
GLDIE	380527.92N/0852606.74W	Y	FB	TF	141.25	16.77			
FRATE	380417.35N/0851722.92W	Y	FB	TF	099.63	6.99			
FEDRA	380244.41N/0850601.98W	Y	FB	TF	099.74	9.10			
FEDRA	380244.41N/0850601.98W	Y	-	IF	-	-			FEDRA2.OHAGI
OHAGI	375205.84N/0844436.80W	Y	FB	TF	122.00	20.00			
FEDRA	380244.41N/0850601.98W	Y	-	IF	-	-			FEDRA2.SHIPR
SHIPR	375759.91N/0842828.49W	Y	FB	TF	098.87	30.06			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FEDRA RNAV	TWO	FEDRA2.FEDRA	ONE	20 SEP 12	07 MAR 2013

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        LOZ   K5011610VTLA N37015934W084063627    N37015934W084063627W0030012451     NARLONDON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BAALK K50    W     N38153167W085452085                      W0045     NAR           BAALK
        SUSAEAENRT   DROPA K50    W     N38050241W085414598                      W0045     NAR           DROPA
        SUSAEAENRT   FADDR K50    W     N38032997W085423440                      W0045     NAR           FADDR
        SUSAEAENRT   FEDRA K50    C   L N38024441W085060198                      W0050     NAR           FEDRA
        SUSAEAENRT   FRATE K50    W     N38041735W085172292                      W0048     NAR           FRATE
        SUSAEAENRT   GADSN K50    W     N38110235W085494985                      W0045     NAR           GADSN
        SUSAEAENRT   GLDIE K50    W     N38052792W085260674                      W0047     NAR           GLDIE
        SUSAEAENRT   GRIPZ K50    W     N38131190W085443300                      W0045     NAR           GRIPZ
        SUSAEAENRT   IAMUR K50    W     N38035696W085541299                      W0044     NAR           IAMUR
        SUSAEAENRT   LEENE K50    W     N38044268W085435894                      W0045     NAR           LEENE
        SUSAEAENRT   LLAWS K50    W     N38200717W085414079                      W0046     NAR           LLAWS
        SUSAEAENRT   LUUKE K50    W     N38104412W085540221                      W0044     NAR           LUUKE
        SUSAEAENRT   OHAGI K50    W     N37520584W084443680                      W0052     NAR           OHAGI
        SUSAEAENRT   PKAGE K50    W     N38042638W085342151                      W0046     NAR           PKAGE
        SUSAEAENRT   RRROE K50    W     N38163570W085482991                      W0045     NAR           RRROE
        SUSAEAENRT   SHIPR K50    W     N37575991W084282849                      W0054     NAR           SHIPR
        SUSAEAENRT   SIXMI K50    W     N38183412W085392441                      W0046     NAR           SIXMI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSDFK5ASDF     0     118YHN38102671W085441140W003000501         1800018000C    MNAR    LOUISVILLE INTL-STANDIFORD FIE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSDFK5DFEDRA24RW17L 010         0        VA                     1679        + 01020     18000
        SUSAP KSDFK5DFEDRA24RW17L 020DROPAK5EA0E    010DF
        SUSAP KSDFK5DFEDRA24RW17L 030FRATEK5EA0E    010TF
        SUSAP KSDFK5DFEDRA24RW17L 040FEDRAK5EA0EE   010TF
        SUSAP KSDFK5DFEDRA24RW17R 010         0        VI                     1684                    18000
        SUSAP KSDFK5DFEDRA24RW17R 020LEENEK5EA0E    010CF LOZ K5      3125099618350035D
        SUSAP KSDFK5DFEDRA24RW17R 030PKAGEK5EA0E    010TF
        SUSAP KSDFK5DFEDRA24RW17R 040FRATEK5EA0E    010TF
        SUSAP KSDFK5DFEDRA24RW17R 050FEDRAK5EA0EE   010TF
        SUSAP KSDFK5DFEDRA24RW29  010         0        VI                     2941                    18000
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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FEDRA RNAV	TWO	FEDRA2.FEDRA	ONE	20 SEP 12	07 MAR 2013

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SUSAP KSDFK5DFEDRA24RW29  020GADSNK5EA0E    010CF LOZ K5      3136107226780027D
SUSAP KSDFK5DFEDRA24RW29  030LUUKEK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW29  040IAMURK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW29  050FADDRK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW29  060FRATEK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW29  070FEDRAK5EA0EE   010TF
SUSAP KSDFK5DFEDRA24RW35L 010         0       VI                    3484                    18000
SUSAP KSDFK5DFEDRA24RW35L 020RRROEK5EA0E    010CF LOZ K5      3162110033270051D
SUSAP KSDFK5DFEDRA24RW35L 030LLAWSK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW35L 040GLDIEK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW35L 050FRATEK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW35L 060FEDRAK5EA0EE   010TF
SUSAP KSDFK5DFEDRA24RW35R 010         0       VA                    3479        + 01020     18000
SUSAP KSDFK5DFEDRA24RW35R 020GRIPZK5EA0E    010DF
SUSAP KSDFK5DFEDRA24RW35R 030BAALKK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW35R 040SIXMIK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW35R 050GLDIEK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW35R 060FRATEK5EA0E    010TF
SUSAP KSDFK5DFEDRA24RW35R 070FEDRAK5EA0EE   010TF
SUSAP KSDFK5DFEDRA26OHAGI 010FEDRAK5EA0E       IF                                            18000
SUSAP KSDFK5DFEDRA26OHAGI 020OHAGIK5EA0EE   010TF
SUSAP KSDFK5DFEDRA26SHIPR 010FEDRAK5EA0E       IF                                            18000
SUSAP KSDFK5DFEDRA26SHIPR 020SHIPRK5EA0EE   010TF
```

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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSDFK5GRW17L   0085791679 N38111114W085435176-0300    +011890049903295 5150IIPKI1
        SUSAP KSDFK5GRW17R   0118901684 N38110507W085445295-0200    +011470048508505 0150IISNU1
        SUSAP KSDFK5GRW29    0072502941 N38102299W085432577+0000    +011310048000005 5150RILKS0
        SUSAP KSDFK5GRW35L   0118903484 N38092941W085442138+0200    +010740046110405 9150IIRLI3
        SUSAP KSDFK5GRW35R   0085793479 N38095670W085432634+0300    +011040047204506 0150IIJJM3
```

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FEDRA RNAV	TWO	FEDRA2.FEDRA	ONE	20 SEP 12	07 MAR 2013

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW17L		010		VA		FB		167.9()		AA 01020	
	RW17L	DROPA	020		DF		FB	1.0				
	RW17L	FRATE	030		TF		FB	1.0				
	RW17L	FEDRA	040		TF		FB	1.0				
	RW17R		010		VI		FB		168.4()			
	RW17R	LEENE	020		CF		FB	1.0	183.5()	003.5		
	RW17R	PKAGE	030		TF		FB	1.0				
	RW17R	FRATE	040		TF		FB	1.0				
	RW17R	FEDRA	050		TF		FB	1.0				
	RW29		010		VI		FB		294.1()			
	RW29	GADSN	020		CF		FB	1.0	267.8()	002.7		
	RW29	LUUKE	030		TF		FB	1.0				
	RW29	IAMUR	040		TF		FB	1.0				
	RW29	FADDR	050		TF		FB	1.0				
	RW29	FRATE	060		TF		FB	1.0				
	RW29	FEDRA	070		TF		FB	1.0				
	RW35L		010		VI		FB		348.4()			
	RW35L	RRROE	020		CF		FB	1.0	332.7()	005.1		
	RW35L	LLAWS	030		TF		FB	1.0				
	RW35L	GLDIE	040		TF		FB	1.0				
	RW35L	FRATE	050		TF		FB	1.0				
	RW35L	FEDRA	060		TF		FB	1.0				
	RW35R		010		VA		FB		347.9()		AA 01020	
	RW35R	GRIPZ	020		DF		FB	1.0				
	RW35R	BAALK	030		TF		FB	1.0				
	RW35R	SIXMI	040		TF		FB	1.0				
	RW35R	GLDIE	050		TF		FB	1.0				
	RW35R	FRATE	060		TF		FB	1.0				
	RW35R	FEDRA	070		TF		FB	1.0				
	OHAGI	FEDRA	010		IF		FB					
	OHAGI	OHAGI	020		TF		FB	1.0				
	SHIPR	FEDRA	010		IF		FB					
	SHIPR	SHIPR	020		TF		FB	1.0				

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
LOZ	N370159.34	W0840636.27	N3701.989	W08406.605
BAALK	N381531.67	W0854520.85	N3815.528	W08545.348
DROPA	N380502.41	W0854145.98	N3805.040	W08541.766
FADDR	N380329.97	W0854234.40	N3803.500	W08542.573
FEDRA	N380244.41	W0850601.98	N3802.740	W08506.033
FRATE	N380417.35	W0851722.92	N3804.289	W08517.382

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FEDRA RNAV	TWO	FEDRA2.FEDRA	ONE	20 SEP 12	07 MAR 2013

GADSN	N381102.35	W0854949.85	N3811.039	W08549.831
GLDIE	N380527.92	W0852606.74	N3805.465	W08526.112
GRIPZ	N381311.90	W0854433.00	N3813.198	W08544.550
IAMUR	N380356.96	W0855412.99	N3803.949	W08554.217
LEENE	N380442.68	W0854358.94	N3804.711	W08543.982
LLAWS	N382007.17	W0854140.79	N3820.120	W08541.680
LUUKE	N381044.12	W0855402.21	N3810.735	W08554.037
OHAGI	N375205.84	W0844436.80	N3752.097	W08444.613
PKAGE	N380426.38	W0853421.51	N3804.440	W08534.359
RRROE	N381635.70	W0854829.91	N3816.595	W08548.499
SHIPR	N375759.91	W0842828.49	N3757.999	W08428.475
SIXMI	N381834.12	W0853924.41	N3818.569	W08539.407
RW17L	N381111.14	W0854351.76	N3811.186	W08543.863
RW17R	N381105.07	W0854452.95	N3811.085	W08544.883
RW29	N381022.99	W0854325.77	N3810.383	W08543.430
RW35L	N380929.41	W0854421.38	N3809.490	W08544.356
RW35R	N380956.70	W0854326.34	N3809.945	W08543.439

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW17L	00499	55
RW17R	00485	50
RW29	00480	55
RW35L	00461	59
RW35R	00472	60

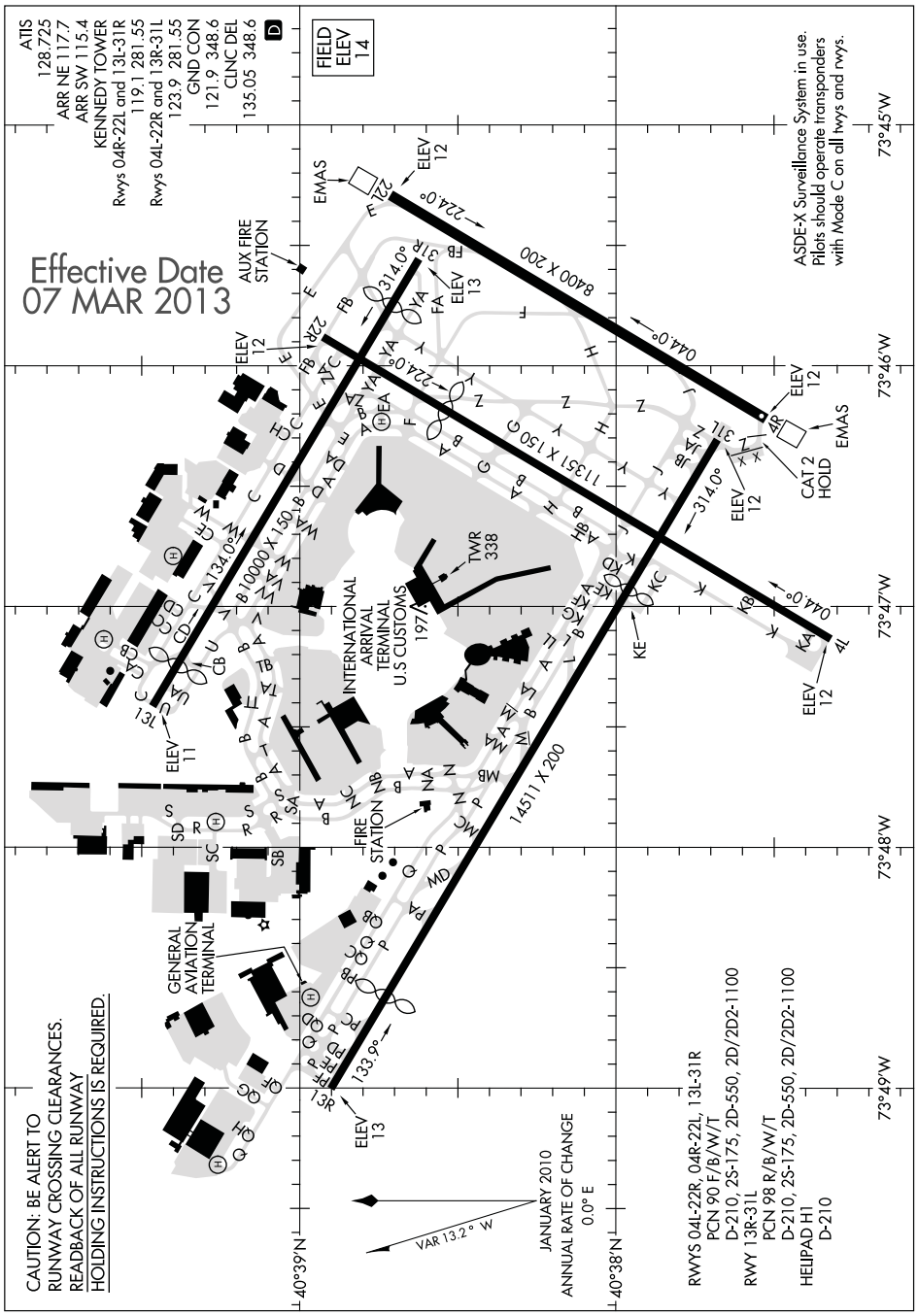
GRAPHIC REVISION: JOHN F. KENNEDY INTL, NY (JFK)
ADD TAXIWAY HB
MODIFIED TERMINAL BUILDING
CLOSED TAXIWAY D

13066

AIRPORT DIAGRAM

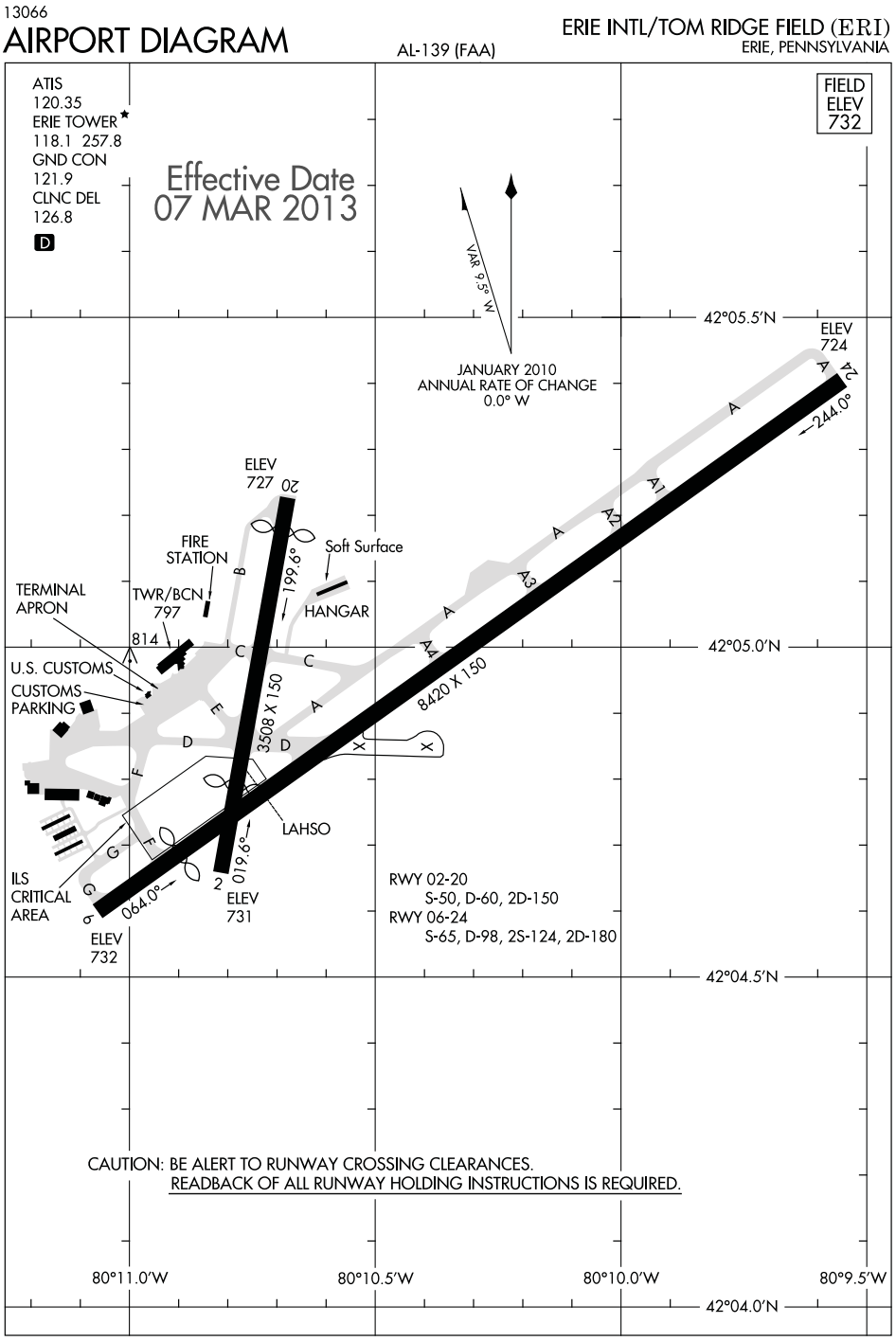
AL-610 (FAA)

NEW YORK / JOHN F. KENNEDY INTL (JFK)
NEW YORK, NEW YORK



AIRPORT DIAGRAM
13066
NEW YORK, NEW YORK
NEW YORK / JOHN F. KENNEDY INTL (JFK)

GRAPHIC REVISION: ERIE INTL/TOM RIDGE FIELD, PA (ERI)
EXTENDED TWY A
MODIFIED ILS CRITICAL AREA



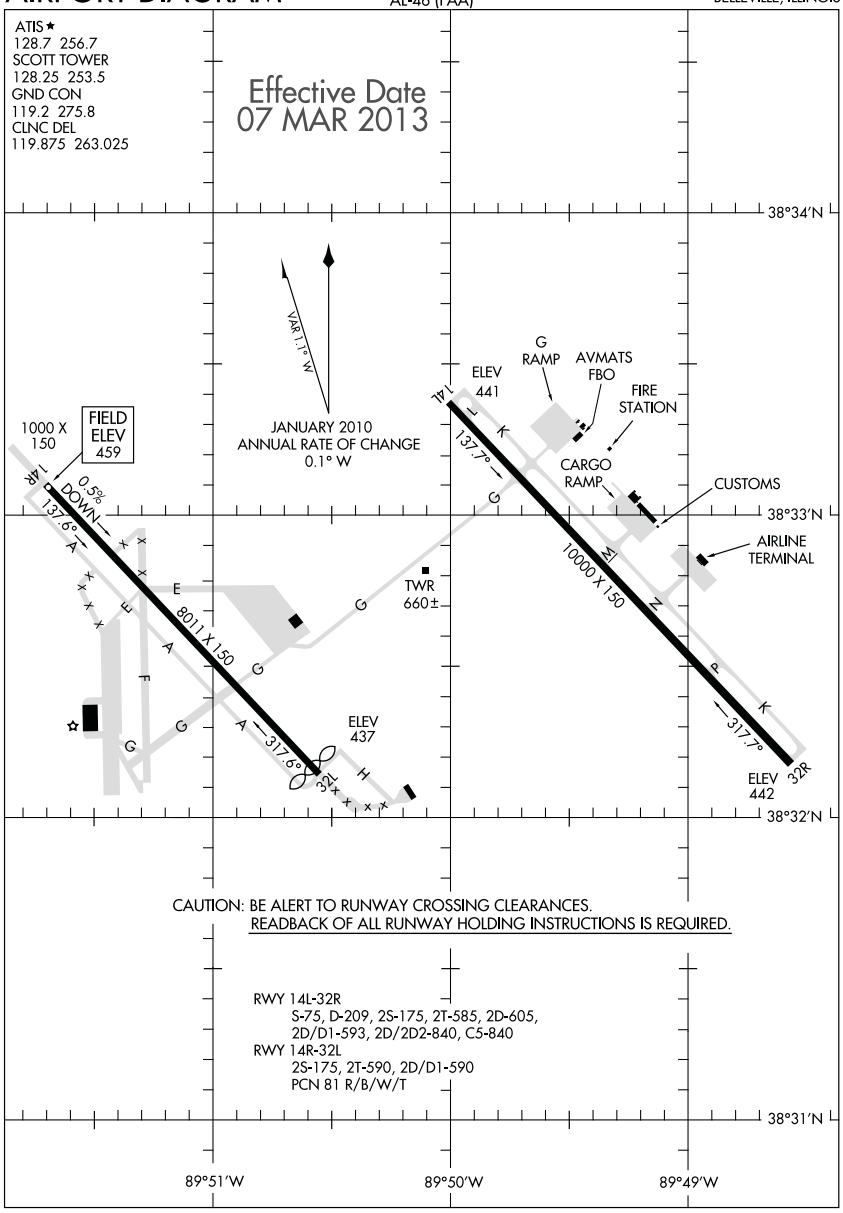
GRAPHIC REVISION: SCOTT AFB/MIDAMERICA, IL (BLV)
MODIFY GA RAMP / CARGO RAMP

13066

AIRPORT DIAGRAM

BELLEVILLE/SCOTT AFB/MIDAMERICA (BLV)
BELLEVILLE, ILLINOIS

AL-46 (FAA)



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

RWY 14L-32R
S-75, D-209, 2S-175, 2T-585, 2D-605,
2D/D1-593, 2D/2D2-840, C5-840
RWY 14R-32L
2S-175, 2T-590, 2D/D1-590
PCN 81 R/B/W/T

AIRPORT DIAGRAM
13066
BELLEVILLE, ILLINOIS
BELLEVILLE/SCOTT AFB/MIDAMERICA (BLV)

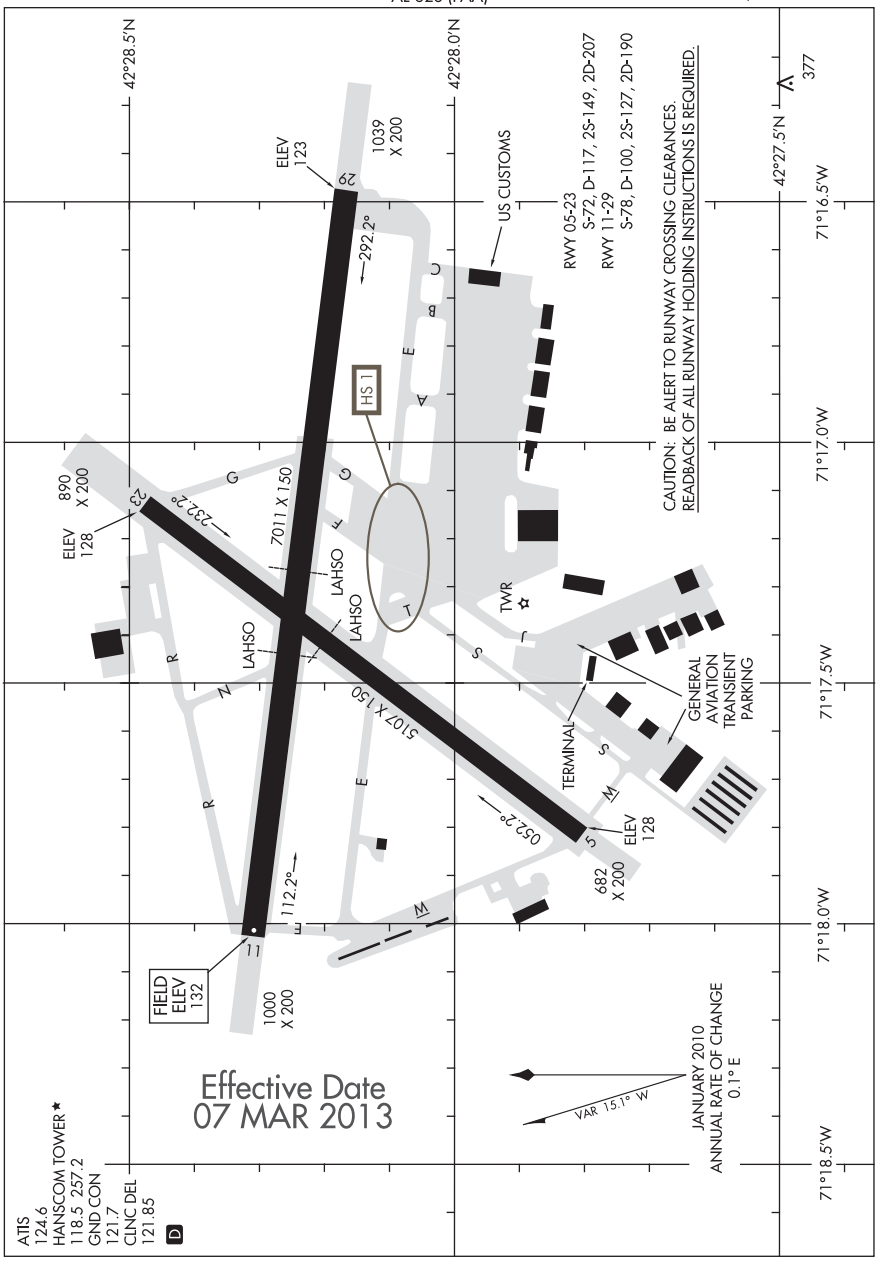
GRAPHIC REVISION: LAURENCE G HANSCOM FIELD, MA (BED)
TWY S UPDATED

13066

AIRPORT DIAGRAM

BEDFORD / LAURENCE G. HANSCOM FIELD (BED)
BEDFORD, MASSACHUSETTS

AL-626 (FAA)



AIRPORT DIAGRAM

BEDFORD, MASSACHUSETTS
BEDFORD / LAURENCE G. HANSCOM FIELD (BED)

13066