Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 07/09/2010	Task #: 2006121313410904003	Request #: 20061213134109
Procedure: RNAV (GPS) Z RWY 6 ORIG		Airport ID: KTTN	**Airport:** TRENTON MERCER		Reimbursable #:
City: TRENTON	**ST:** NJ	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID: TTN	**Fac. Type:** Proc-S	**Specialist:** SHAWN REDDINGER			P1

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	02/24/2012	07/17/2012	JAMES DUBOIS	
QA:	07/17/2012	07/17/2012	STEVEN SZUKALA	
Liaison:	07/17/2012		K. Spurlin	P1;

Procedure Comments: **Remark Type:** INFORMATION PKG 5 of 5

TRENTON, NJ TRENTON MERCER (KTTN) RNAV (GPS) Z RWY 6, ORIG ENROUTE-NO FC BY 8/7/12 PUB 9/20/12

PUBLISH CONCURRENT WITH KTTN RNAV (GPS) Z RWY 24 ORIG, KTTN RNAV (RNP) Y RWY 6 ORIG, RNAV (RNP) Y RWY 24 ORIG, KTTN ILS OR LOC RWY 6 AMDT 10
ATTACHED FORMS: 8260-3, 8260-10, 8260-9, 8260-2'S COPIX INT, PA ORIG; EMUNY, PA ORIG; MENGE, NJ REV 2; WACKI, PA REV 2; ZUBAX INT, NJ ORIG.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036/405.954.3636.

RNAV (GPS) Z RWY 6

TRENTON MERCER (TTN)

WAAS	APP CRS	Rwy Idg	6006
CH 56430	058°	THRE	160
W06A		Apt Elev	212

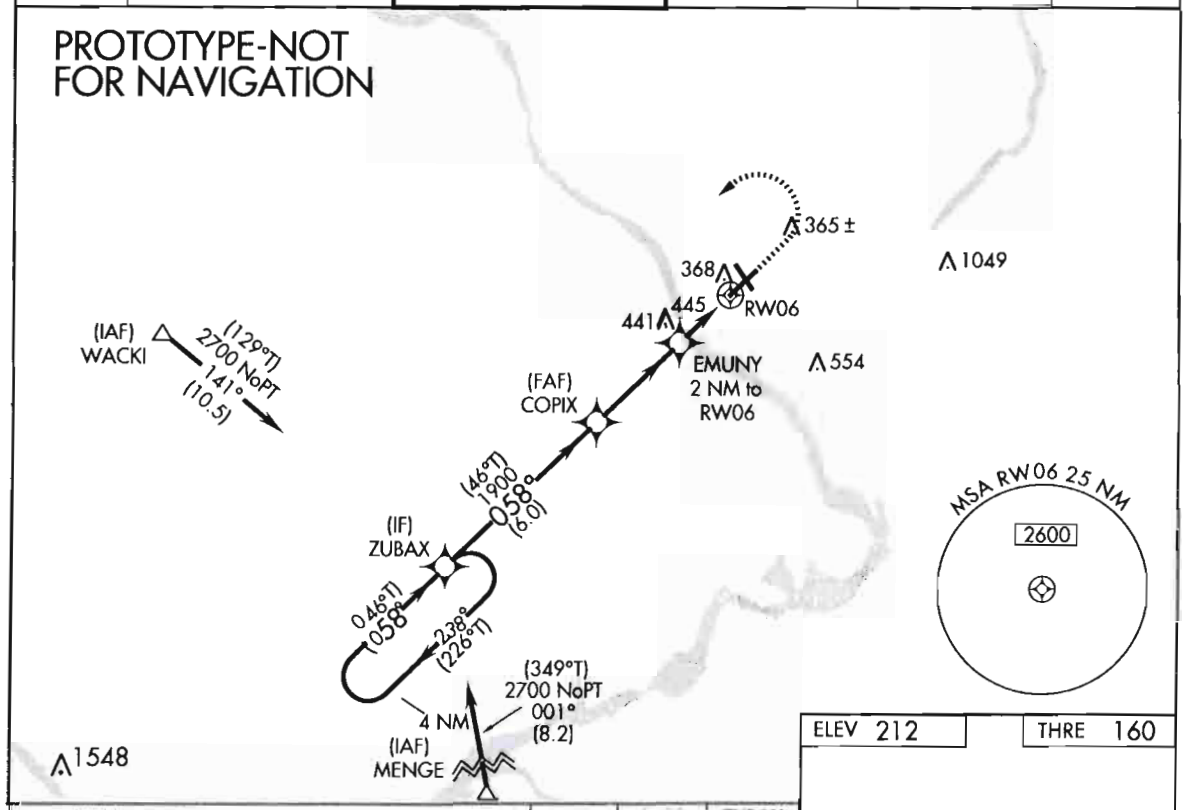
▼ When VGSI inop, Circling Rwy 34 NA at night. Baro-VNAV NA when using northeast Philadelphia altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -13°C (8°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting is not received use northeast Philadelphia altimeter setting: increase LPV DA to 407 feet; increase LNAV/VNAV DA to 632 and visibilities all Cats ¼ mile; increase all MDAs 60 feet and visibility Cats C/D ¼ mile.

MALSR

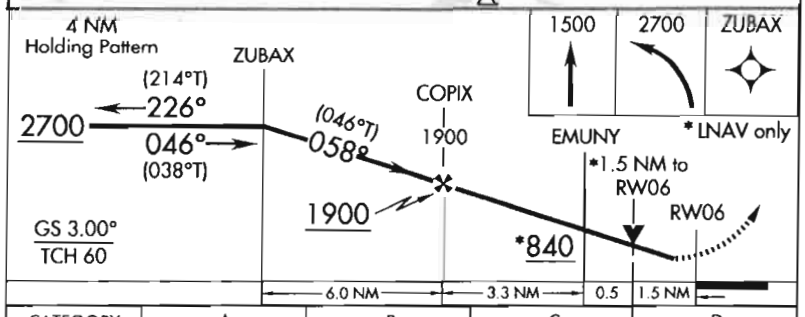
MISSED APPROACH: Climb to 1500 then climbing left turn to 2700 direct ZUBAX and hold

ATIS	PHILADELPHIA APP CON	TRENTON TOWER *	GND CON	CLNC DEL	UNICOM
126.775	123.8 291.7	120.7 (CTAF) L 257.8	121.9 257.8	121.9 257.8	122.95

PROTOTYPE-NOT FOR NAVIGATION



ELEV 212 THRE 160



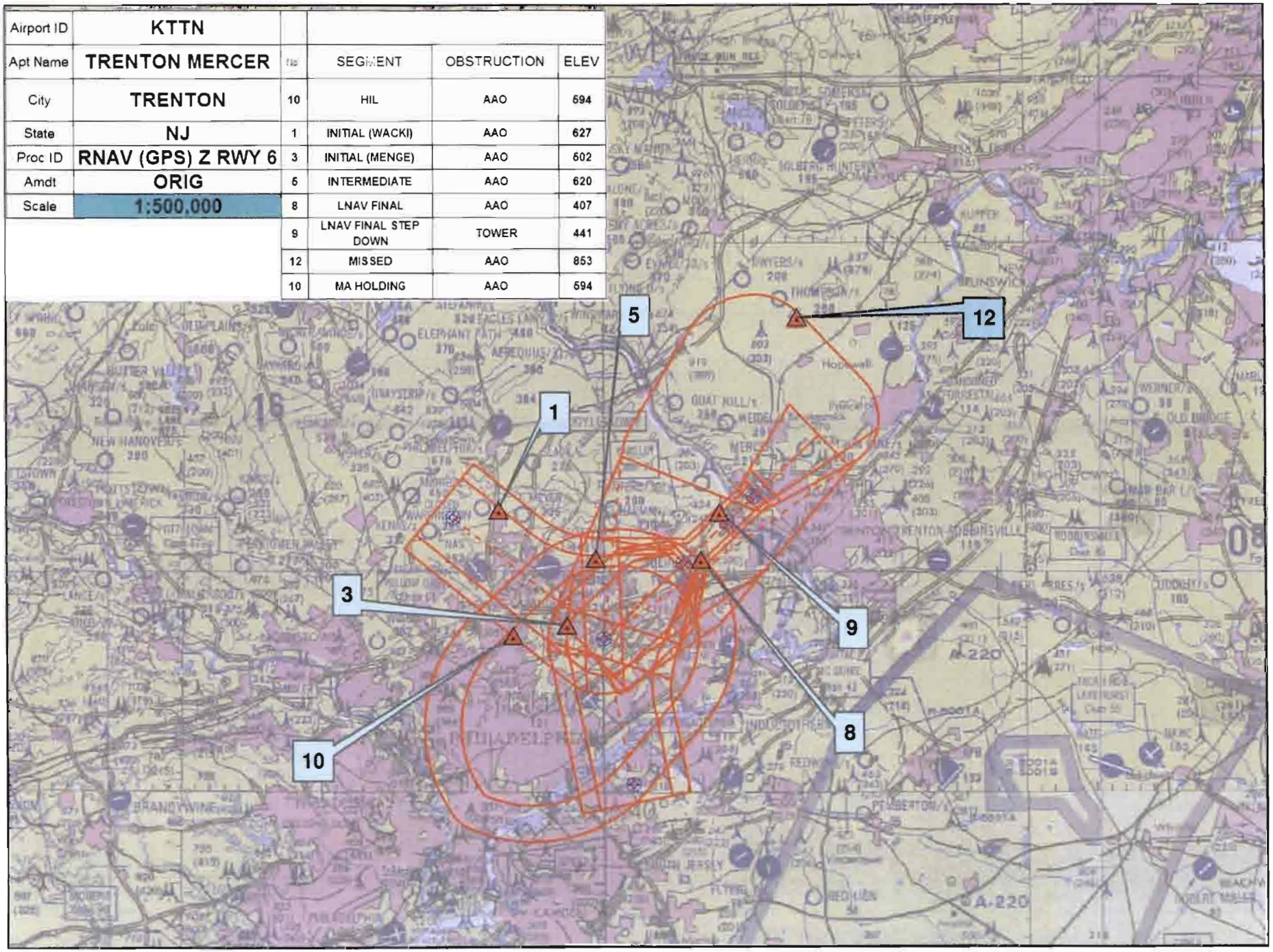
COPIX: 4012.548/07454.287
EMUNY: 4014.807/07451.189
MENGE: 4000.417/07457.847
WACKI: 4015.015/07510.627
ZUBAX: 4008.411/07459.951
RW06: 4016.185/07449.295

CATEGORY	A	B	C	D
LPV DA	360- ½ 200 (200-⅜)			
LNAV/VNAV DA	585- 7/8 425 (400-¾)			
LNAV MDA	700-½ 540 (500-½)		700-1 540 (500-1)	
CIRCLING	700-1 488 (500-1)		700-1½ 488 (500-1½)	780-2 568 (600-2)

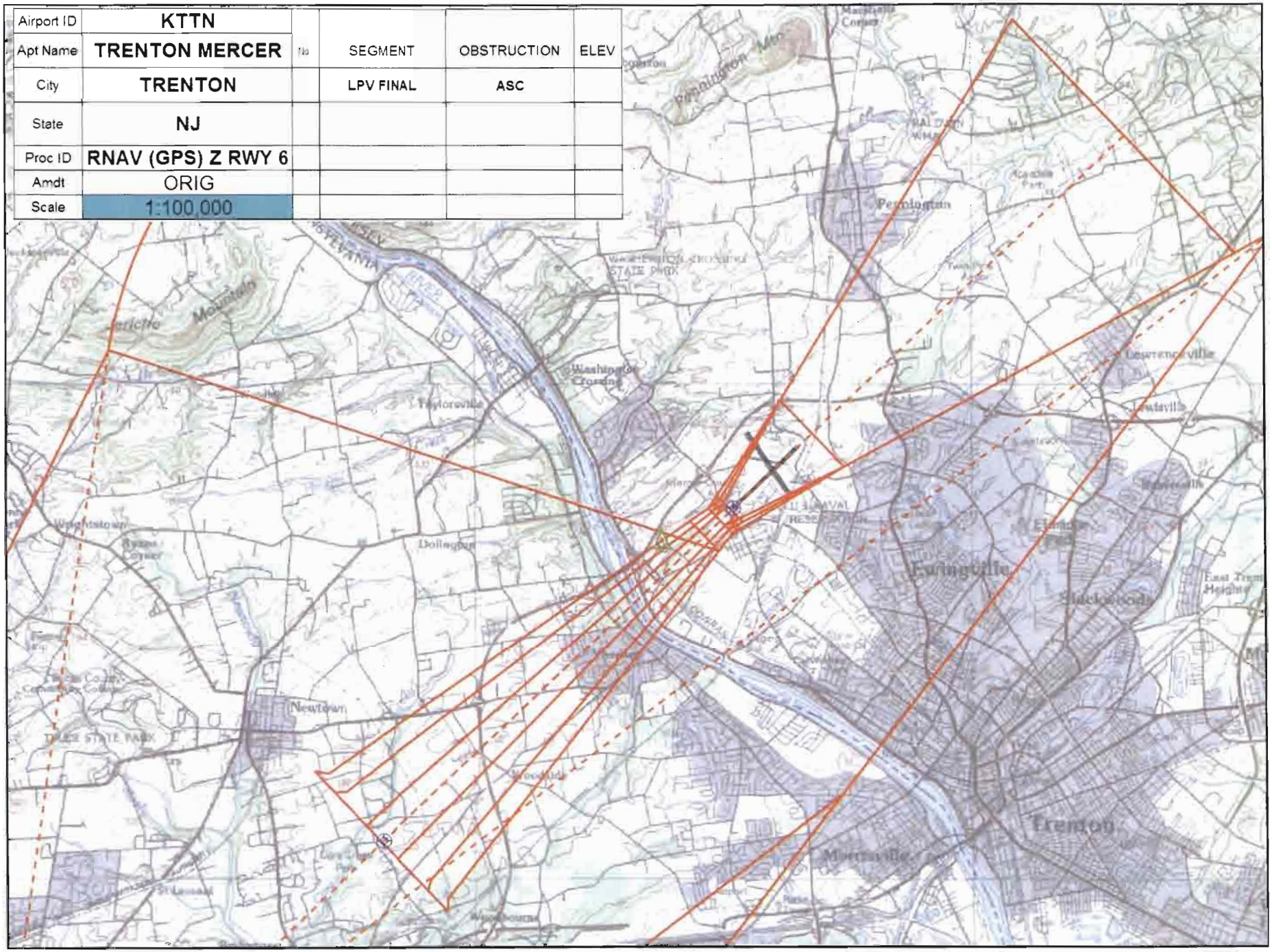
HIRL Rwys 6-24 and 16-34 L
REIL Rwys 16, 24 and 34 L

Airport ID	KTTN
Apt Name	TRENTON MERCER
City	TRENTON
State	NJ
Proc ID	RNAV (GPS) Z RWY 6
Amdt	ORIG
Scale	1:500,000

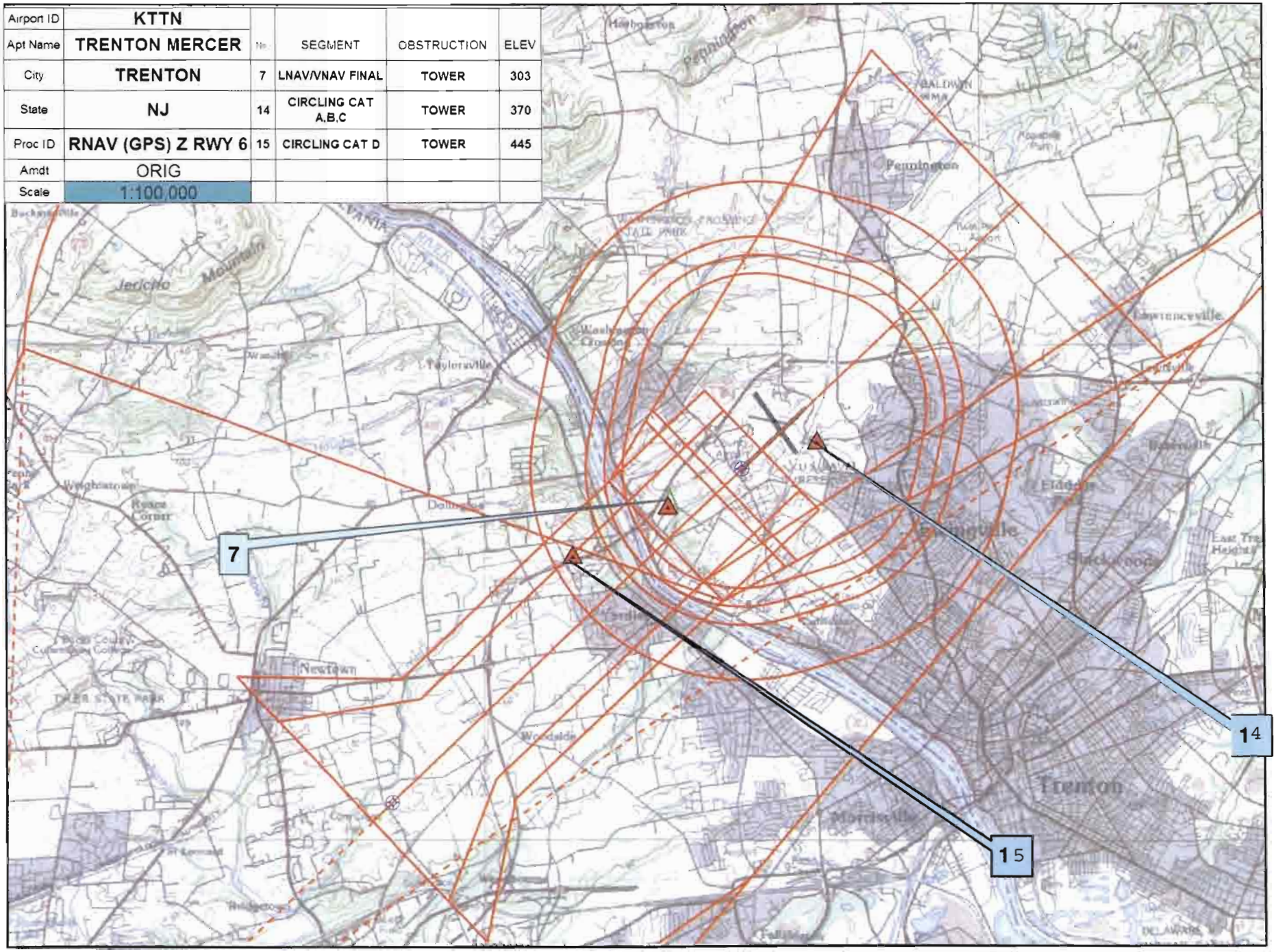
No	SEGMENT	OBSTRUCTION	ELEV
10	HIL	AAO	694
1	INITIAL (WACKI)	AAO	627
3	INITIAL (MENGE)	AAO	602
5	INTERMEDIATE	AAO	620
8	LNAV FINAL	AAO	407
9	LNAV FINAL STEP DOWN	TOWER	441
12	MISSED	AAO	853
10	MA HOLDING	AAO	694



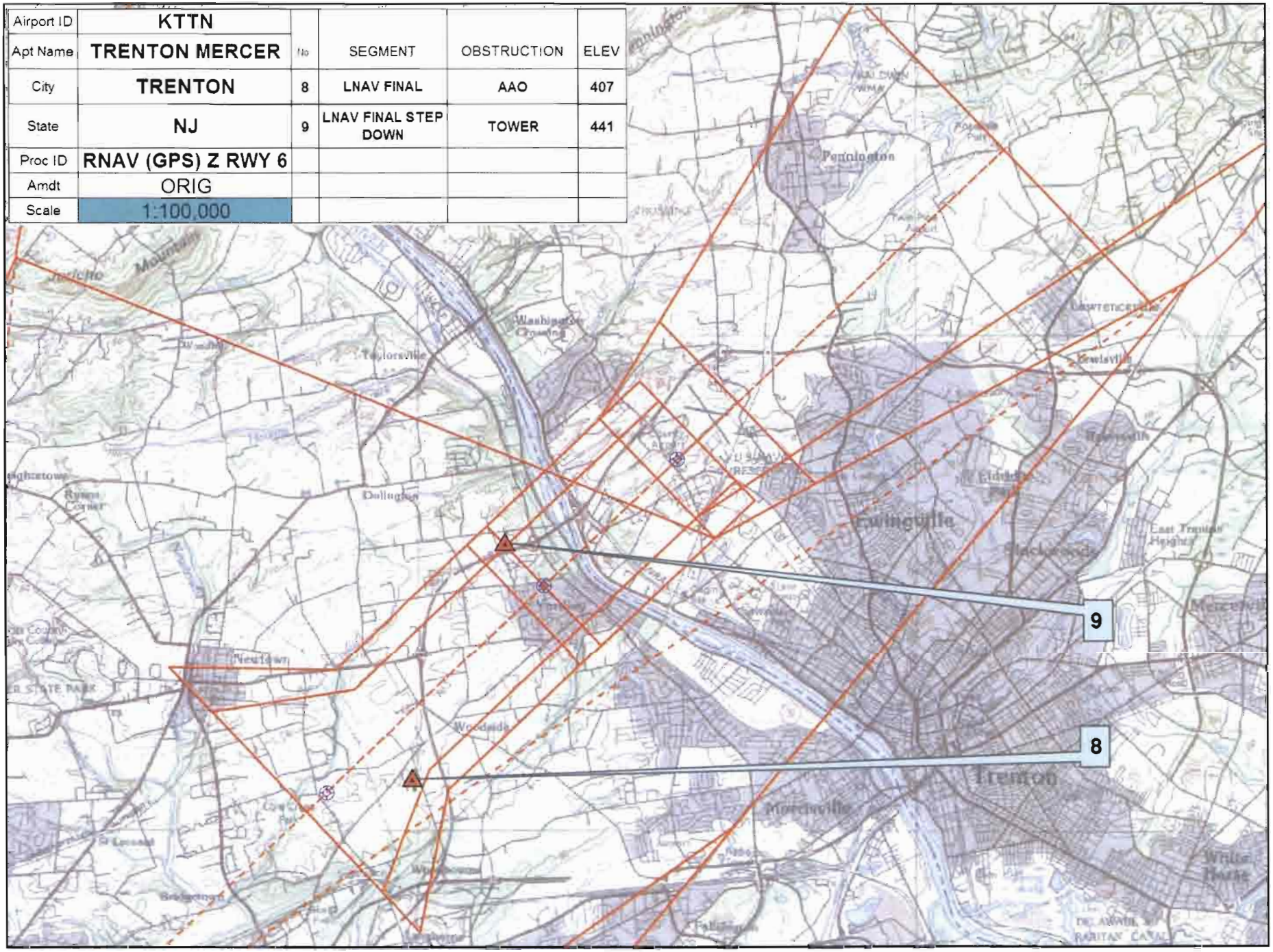
Airport ID	KTTN		SEGMENT	OBSTRUCTION	ELEV
Apt Name	TRENTON MERCER				
City	TRENTON		LPV FINAL	ASC	
State	NJ				
Proc ID	RNAV (GPS) Z RWY 6				
Amdt	ORIG				
Scale	1:100,000				



Airport ID	KTTN				
Apt Name	TRENTON MERCER	No	SEGMENT	OBSTRUCTION	ELEV
City	TRENTON	7	LNAV/VNAV FINAL	TOWER	303
State	NJ	14	CIRCLING CAT A,B,C	TOWER	370
Proc ID	RNAV (GPS) Z RWY 6	15	CIRCLING CAT D	TOWER	445
Amdt	ORIG				
Scale	1:100,000				



Airport ID	KTTN				
Apt Name	TRENTON MERCER	No	SEGMENT	OBSTRUCTION	ELEV
City	TRENTON	8	LNAV FINAL	AAO	407
State	NJ	9	LNAV FINAL STEP DOWN	TOWER	441
Proc ID	RNAV (GPS) Z RWY 6				
Amdt	ORIG				
Scale	1:100,000				



US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
WACKI (IAF)	ZUBAX (NOPT) (FB)	140.84 / 10.51	2700
MENGE (IAF)	ZUBAX (NOPT) (FB)	000.58 / 8.15	2700
ZUBAX (IF/IAF)	COPIX (FB)	058.37 / 6.00	1900
COPIX (FAF)	EMUNY/2.00 NM TO RW06 (FB)	058.43 / 3.27	
EMUNY/2.00 NM TO RW06	RW06 (MAP) (FO)	058.43 / 2.00	
RW06 (MAP)	1500 MSL	058.43	1500
1500 MSL	ZUBAX (FO)		2700

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW06

CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 2700 DIRECT ZUBAX AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SW ZUBAX, RT, 058.37 INBOUND, 2700 FT. IN LIEU OF PT (IAF)
3. FAC: 058.43 FAF: COPIX DIST FAF TO MAP: 5.27 THLD: 5.27
4. MIN. ALT: ZUBAX 2700, COPIX 1900, EMUNY/2.00 NM TO RW06 840*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1900 GS ALT AT: COPIX 1900 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 59.9 34:1 IS CLEAR
8. MSA FROM: RW06 2600

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 441 TOWER 401516N/0745142W
DISTANCE TO THLD FROM 200 HATH: 0.44 NM.
CHART VDP AT 1.50 MILES TO RW06*
*LNAV ONLY.
WAAS CHANNEL # 56430
REFERENCE PATH ID: W06A
LTP HAE: 15.4 M

MAG VAR: 12W EPOCH YEAR: 1985

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | STANDARD @

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	360	1/2	200	360	1/2	200	360	1/2	200	360	1/2	200			
LNAV/VNAV DA	585	7/8	425	585	7/8	425	585	7/8	425	585	7/8	425			
LNAV MDA	700	1/2	540	700	1/2	540	700	1	540	700	1	540			
CIRCLING	700	1	488	700	1	488	700	1 1/2	488	780	2	568			

NOTES:
CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 34 NA AT NIGHT.
CHART NOTE: BARO-VNAV NA WHEN USING NORTHEAST PHILADELPHIA ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13C (8F) OR ABOVE 54C (130F).
CHART NOTE: DME/DME RNP-0.3 NA.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 212 THRE: 160 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
TRENTON, NJ	TRENTON MERCER	RNAV	RNAV (GPS) Z RWY 6, ORIG	AMDT: NONE
				DATED

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**CONCURRENT**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[ ]

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
DONALD E. SMITH (SHAWN REDDINGER)	**AJV-352**	**04/27/2012**

APPROVED BY

NAME:		FIFO	DATE:
DARRYEL ADAMS	**MANAGER**	**AJV-352**	

CHANGES:

ORIGINAL IAP.

REASONS:

REQUESTED BY FTP.

EFFECTIVE CONCURRENT WITH: KTTN ILS OR LOC RWY 6 AMDT 10

QUALITY CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
*LNAV ONLY
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE NORTHEAST PHILADELPHIA ALTIMETER SETTING: INCREASE LPV DA TO 407 FT; INCREASE LNAV/VNAV DA TO 632 AND LNAV/VNAV VISIBILITIES ALL CATS 1/4 MILE; INCREASE ALL MDA 60 FT, INCREASE LNAV CAT C/D VISIBILITY 1/4 MILE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 212 THRE: 160	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
TRENTON, NJ	AIRPORT NAME: TRENTON MERCER	RNAV	RNAV (GPS) Z RWY 6, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTTN
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	401611.1100N
LTP/FTP LONGITUDE	0744917.6780W
LTP/FTP ELLIPSOIDAL HEIGHT	+00154
FPAP LATITUDE	401712.5005N
FPAP LONGITUDE	0744753.2500W
THRESHOLD CROSSING HEIGHT (TCH)	00059.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	B7386457

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00489
FPAP ORTHOMETRIC HEIGHT	+00489

CITY AND STATE	ELEVATION: 212 THRE: 160	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
TRENTON, NJ	AIRPORT NAME: TRENTON MERCER	RNAV	RNAV (GPS) Z RWY 6, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   COPIX K60    C     N40123290W074541724                    W0124     NAR           COPIX
        SUSAEAENRT   EMUNY K60    C     N40144840W074511132                    W0125     NAR           EMUNY
        SUSAEAENRT   MENGE K60    C   L N40002499W074575081                    W0123     NAR           MENGE
        SUSAEAENRT   WACKI K60    W   L N40150092W075103760                    W0123     NAR           WACKI
        SUSAEAENRT   ZUBAX K60    C     N40082464W074595705                    W0124     NAR           ZUBAX

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KTTNK6ATTN     0     060YHN40163609W074484849W012000212         1800018000C    MNAR    TRENTON MERCER

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KTTNK6FR06-Z AMENGE 010MENGEK6EA0E  A    IF                                                18000                A JS
        SUSAP KTTNK6FR06-Z AMENGE 020ZUBAXK6EA0EE B 010TF                    00060082    + 02700                                A JS
        SUSAP KTTNK6FR06-Z AWACKI 010WACKIK6EA0E  A    IF                                                18000                A JS
        SUSAP KTTNK6FR06-Z AWACKI 020ZUBAXK6EA0EE B 010TF                    14080105    + 02700                                A JS
        SUSAP KTTNK6FR06-Z AZUBAX 010ZUBAXK6EA0EE AR   HF                    05840040    + 02700    18000                       A JS
        SUSAP KTTNK6FR06-Z R      010ZUBAXK6EA0E  I    IF                                + 02700    18000                       A JS
        SUSAP KTTNK6FR06-Z R      020COPIXK6EA1E  F 051TF                    05840060    + 01900                RW06  K6PGA JS
        SUSAP KTTNK6FR06-Z R      020COPIXK6EA2WALPV       ALNAV/VNAV ALNAV                                                    JS
        SUSAP KTTNK6FR06-Z R      021EMUNYK6EA0E S  031TF                    05840033    V 0084000857       -300              A JS
        SUSAP KTTNK6FR06-Z R      030RW06 K6PG0GY M 031TF                    05840020      00220            -300              A JS
        SUSAP KTTNK6FR06-Z R      040         0  M     CA                    0584        + 01500                              A JS
        SUSAP KTTNK6FR06-Z R      050ZUBAXK6EA0EY  L    DF                              + 02700                              A JS
        SUSAP KTTNK6FR06-Z R      060ZUBAXK6EA0EE  R    HM                    05840040    + 02700                              A JS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
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                1         2         3         4         5         6         7         8         9         0         1         2         3
PP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
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        SUSAP KTTNK6PR06-Z RW06 002E      +00489+00489LPV       56430

                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
```

CITY AND STATE	ELEVATION: 212 THRE: 160	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
TRENTON, NJ	AIRPORT NAME: **TRENTON MERCER**	**RNAV**	**RNAV (GPS) Z RWY 6, ORIG**	AMDT: **NONE**
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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```
SUSAP KTTNK6SRW06 K6PG              0    18018002625                                                    M
```

CITY AND STATE	ELEVATION: 212 THRE: 160	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
TRENTON, NJ	AIRPORT NAME: TRENTON MERCER	RNAV	RNAV (GPS) Z RWY 6, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	MENGE	MENGE	010	IAF	IF		FB					
	MENGE	ZUBAX	020		TF		FB	1.0	000.6(348.6T)	008.2	AA 02700	
	WACKI	WACKI	010	IAF	IF		FB					
	WACKI	ZUBAX	020		TF		FB	1.0	140.8(128.8T)	010.5	AA 02700	
	ZUBAX	ZUBAX	010	IAF	HF	R	FO		058.4(046.4T)	004.0	AA 02700	
		ZUBAX	010	FACF	IF		FB				AA 02700	
		COPIX	020	FAF	TF		FB	0.5	058.4(046.4T)	006.0	AA 01900	
		EMUNY	021	SDF	TF		FB	0.3	058.4(046.4T)	003.3	AA 00840 GS 00857	
		RW06	030	MAP	TF		FO	0.3	058.4(046.4T)	002.0	AT 00220	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		058.4(046.4T)		AA 01500	
	ZUBAX	050		DF	L	FO				AA 02700	
	ZUBAX	060		HM	R	FO		058.4(046.4T)	004.0	AA 02700	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	COPIX	N401232.90	W0745417.24	N4012.548	W07454.287
	EMUNY	N401448.40	W0745111.32	N4014.807	W07451.189
	MENGE	N400024.99	W0745750.81	N4000.417	W07457.847
	WACKI	N401500.92	W0751037.60	N4015.015	W07510.627
	ZUBAX	N400824.64	W0745957.05	N4008.411	W07459.951
	RW06	N401611.11	W0744917.68	N4016.185	W07449.295

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW06	00160	60

CITY AND STATE	ELEVATION: 212 THRE: 160	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
TRENTON, NJ	AIRPORT NAME: TRENTON MERCER	RNAV	RNAV (GPS) Z RWY 6, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INITIAL	WACKI	ZUBAX	1. AAO	401527.00N/0750727.00W	627 (3E)	1000	AT1073	2700
			2. TERRAIN	401518.00N/0750745.00W	427 (400)		AS1500	1900
INITIAL	MENGE	ZUBAX	3. AAO	400909.00N/0750221.00W	502 (3E)	1000	AT1198	2700
			4. TERRAIN	400909.00N/0750221.00W	302 (300)		AS1500	1800
INTERMEDIATE	ZUBAX	COPIX	5. AAO	401248.00N/0750030.00W	620 (3E)	500	AC50 AT730	1900
			6. TERRAIN	401257.00N/0750030.00W	335 (300)		AS1500	1800
FINAL: LPV	COPIX	RW06				ASC		360/200
FINAL: LNAV/VNAV	COPIX	RW06	7. TOWER (34-000717)	401552.00N/0745018.00W	303 (1A)	23.29:1		585/425
FINAL: LNAV	COPIX	EMUNY/2.00 NM TO RW06	8. AAO	401242.00N/0745300.00W	407 (3E)	250	AC76 RA47 DG60	840
FINAL: LNAV STEPDOWN	EMUNY/2.00 NM TO RW06	RW06	9. TOWER (42-000794)	401516.44N/0745141.62W	441 (1A)	250	SA-4	700
2. HOLD-IN-LIEU-OF-PT	ZUBAX	P-5	10. AAO	400833.00N/0750621.00W	594 (3E)	1000	AT1008 AC98	2700
			11. TERRAIN	400833.00N/0750621.00W	394 (400)		AS1500	1900
3. MISSED APPROACH MAP:	DA / DA / RW06	ZUBAX				ASC		2700
			12. AAO	402603.00N/0744603.00W	853 (4E)	1000		1900
ELEV:	190/424/600		13. TERRAIN	401633.00N/0745024.00W	247 (200)		AS1500	1700

4. CIRCLING AREA	DISTANCE		HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	488	14. TOWER (34-000866)	401633.00N/0744812.00W	370 (2C)	300	SI	700
CATEGORY B	1.5 NM		450		488	14. TOWER (34-000866)	401633.00N/0744812.00W	370 (2C)	300	SI	700
CATEGORY C	1.7 NM		450		488	14. TOWER (34-000866)	401633.00N/0744812.00W	370 (2C)	300	SI	700
CATEGORY D	2.3 NM		550		568	15. TOWER (42-020519)	401521.26N/0745144.43W	445 (1A)	300	HAA	780
CATEGORY E	4.5 NM		550								

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: **RW06**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (42-002870)	246/ 23.5	1548 (2C)	2600					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
TRENTON, NJ	ELEVATION: 212 AIRPORT NAME: TRENTON MERCER	RNAV	RNAV (GPS) Z RWY 6, ORIG	AEA

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
TTN TOWER **PHL APP CON**	N W S / OTHER: **ASOS**	SOURCE: **KTTN / KPNE**
	F A A	DISTANCE: **0 / 14.78**
SATISFACTORY ON:	A / C	HOURS REMOTE OPERATION: **BACKUP**
X V H F X U H F H F	LOCATION: **KTTN**	ADJUSTMENT: **0 / 47**

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	**MALSR 06 (PCL)**
X	**HIRL 16 (PCL), 24 (PCL), 34 (PCL), 06 (PCL)**
	MIRL
X	**REIL 16 (PCL), 24 (PCL), 34 (PCL)**
	TDZ
	C/LINE
X	**OTHER (SPECIFY)** **PAPI-4L 16, 24 (PCL), 34 (PCL)**

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	**PIR-G 24, 06**
	INSTRUMENT	**NPI-G 16, 34**
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	

8. GLIDE PATH		
GP ANGLE: **3.00**	ELEV RWY THRESHOLD: **160.3**	
DISTANCE FROM RWY:	ELEV GP ANTENNA:	
	THRESHOLD CROSSING HEIGHT: **59.9**	

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: **NONE**

PART D - PREPARED BY: **DONALD E. SMITH (SHAWN REDDINGER)**	DATE: **04/27/2012**
TITLE: **AERONAUTICAL INFORMATION SPECIALIST**	OFFICE: **AJV-352**

PART C - REMARKS:

ISA DEVIATION USED: -27.95C (-18.31F)

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ASSUMED CANOPY HEIGHT OF 100 FT USED PER FTP.

ASOS ON SERVICE A.

LPV SLOPE: 34:1
LNAV/VNAV SLOPE: 23.22:1

ACT= -13.37 C
AVERAGE COLD TEMPERATURE BASED ON 5-YEAR HISTORY 2007-2011.

ALL OBSTACLE ACCURACY CODES DERIVED FROM IPDS ACCURACY DATA, ROUNDED UP.

RASS PRESSURE PATTERNS SAME
KTTN 212, KPNE 119.9
RA = 46.9.
SEE ATTACHED AIRSPACE LETTER.

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:
20:1 RWY 34
205 TREE (34-020970) 401616.77N/744828.24W (14.94)
186 RR (KTTN0078) 401618.82N/0744826.75W (1.24)

RADIO FIX AND HOLDING DATA RECORD

NAME: COPIX **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 401232.90N/0745417.24W **TYPE:** WP, INT

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	TRENTON	I-TTN	LOC		238.48	226.48		6.32	38407	1900	4600
2	MC GUIRE	GXU	VORTAC	L	322.25	310.25		18.57		1900	4600
3	YARDLEY	ARD	VOR/DME	L	187.19	177.19		2.65		1900	4600

REMARKS:
MC GUIRE (FAC 2) AND TRENTON (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 6	1, 2		KTTN	TRENTON	NJ (US)
IAP	RNAV (RNP) Y RWY 6			KTTN	TRENTON	NJ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/24/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (SHAWN REDDINGER)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: PHL APP CON, TTN ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: EMUNY **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 401448.40N/0745111.32W **TYPE:** WP, INT

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	TRENTON	I-TTN	LOC		238.49	226.49		3.05		740	4600
2	MC GUIRE	GXU	VORTAC	L	332.38	320.38		18.49		740	4600
3	YARDLEY	ARD	VOR/DME	L	108.92	098.92		2.53		740	4800

REMARKS:
MC GUIRE (FAC 2) AND TRENTON (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 6	1, 2		KTTN	TRENTON	NJ (US)
IAP	RNAV (GPS) Z RWY 6			KTTN	TRENTON	NJ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/24/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (SHAWN REDDINGER)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: PHL APP CON, TTN ATCT
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MENGE **STATE:** NJ **COUNTRY:** US

LATITUDE/LONGITUDE: 400024.99N/0745750.81W **TYPE:** WP, DME

"INFO ONLY"

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	YARDLEY	ARD	VOR/DME	L	200.00	190.00	15.00	15.00		2000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-479	1				(US)
IAP	RNAV (GPS) Z RWY 6			KTTN	TRENTON	NJ (US)
IAP	ILS OR LOC/DME RWY 27R			KPHL	PHILADELPHIA	PA (US)
IAP	ILS RWY 27R (CAT II)			KPHL	PHILADELPHIA	PA (US)
IAP	RNAV (GPS) RWY 26			KPHL	PHILADELPHIA	PA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 08/25/2011

REASON FOR REVISION:
ADDED DISTANCE FROM FACILITY DATA.
DELETED FACILITY 2.
MOVED FIX 11.8 FT TO AIRWAY CENTERLINE.
FAC 1 MRA CHANGED FROM 3000 TO 2000 MEA ALTITUDE.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/18/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (ROBERT DAVIS)

APPROVED BY: **DATE:** 06/15/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC, ZNY
ATC FACILITY: PHL APP CON/ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WACKI **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 401500.92N/0751037.60W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Z RWY 6			KTTN	TRENTON	NJ (US)
STAR	JAIKE			KTEB	TETERBORO	NJ (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. REMOVED FAC 1, FIX IS A WP ONLY.
2. UPDATED FIX USE, ADDED RNAV (GPS) Z RWY 6 KTTN, NJ.
3. ADDED IAP TO CHARTING.
4. CORRECTED FIX USE FORMAT.

DEVELOPED BY: **DATE:** 04/25/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (SHAWN REDDINGER)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: PHL APP CON, NYC APP CON, TTN ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUBAX **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 400824.64N/0745957.05W **TYPE:** WP, INT

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	TRENTON	I-TTN	LOC		238.48	226.48		12.32		2700	4600
2	MC GUIRE	GXU	VORTAC	L	305.03	293.03		20.13		2700	4600
3	YARDLEY	ARD	VOR/DME	L	221.85	211.85		7.98		2700	4600

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW		WP	238.37	058.37	R		4	2700	6000	5	6
2	SW	I-TTN	LOC	238.48	058.48	R	1		2700	4600	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (42-001090)	400832.00N/0750623.00W	590	5D
2	200	TOWER (42-001090)	400832.00N/0750623.00W	590	5D

REMARKS:
TRENTON (FAC 1) AND MC GUIRE (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 6	1, 2, 3	2	KTTN	TRENTON	NJ (US)
IAP	RNAV (GPS) RWY 16		1	KTTN	TRENTON	NJ (US)
IAP	RNAV (GPS) RWY 34		1	KTTN	TRENTON	NJ (US)
IAP	RNAV (GPS) Z RWY 24		1	KTTN	TRENTON	NJ (US)
IAP	RNAV (GPS) Z RWY 6		1	KTTN	TRENTON	NJ (US)
IAP	RNAV (RNP) Y RWY 24		1	KTTN	TRENTON	NJ (US)
IAP	RNAV (RNP) Y RWY 6			KTTN	TRENTON	NJ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/20/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (SHAWN REDDINGER)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: PHL APP CON, TNN ATCT
OTHER:

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **TRENTON** STATE: **NJ**

AIRPORT NAME: **TRENTON MERCER** ID: **KTTN**

PROCEDURE: **RNAV (GPS) Z RWY 6** AMDT: **Orig**

DOCKET#: **NOT REQUIRED**
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.39**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **046.43**
4. High Terrain in **FINAL** segment containing 1000' point **256**
5. Distance from **THLD** to 1500' point **5.07**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **2.31**
7. True Course of **FINAL** segment containing 1500' point **046.43**
8. High Terrain in **FINAL** segment containing 1500' point **256**
9. Threshold Coordinates (if straight-in) ... **401611.11N** / **0744917.68W**
10. ARP Coordinates ..... **401636.09N** / **0744848.49W**
11. Runway Approach End and distance furthest from ARP ..... RWY **6**
    Distance **0.56** NM
12. FAF Coordinates ..... **401232.90N** / **0745417.24W**

REMARKS: Approach/Drawing attached.