

**FEDERAL AVIATION ADMINISTRATION**  
**FLIGHT STANDARDS SERVICE**  
**RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> DETROIT METROPOLITAN WAYNE COUNTY	<u>AIRPORT ID</u> KDTW	<u>PROCEDURE NAME</u> RNAV (RNP) X RWY 21L	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> DETROIT	<u>STATE</u> MI	
<u>AIRPORT ELEVATION</u> 645	<u>TDZE</u> 632	<u>SUPERSEDED</u> RNAV (RNP) X RWY 21L	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 02/28/2019	<u>MAG VAR</u> 7W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
RYEDR	IAF	STRNG		TF	FB	1.00	302.79	3.08	5500
STRNG		WISIV		RF	FB	1.00	(3.25 NM RADIUS CCW (CFPHV))	3.17	5000
WISIV		COUNT		RF	FB	1.00	(3.25 NM RADIUS CCW (CFPHV))	1.75	5000
COUNT	IAF	TIGRZ		TF	FB	1.00	215.86	5.62	5000
TIGRZ		ROBBI		TF	FB	1.00	215.84	3.14	5000
COBBO	IAF	STTIK		TF	FB	1.00	253.52	7.45	5000
JEEEP	IAF	NOOVA		TF	FB	1.00	035.05	3.30	5000
NOOVA		STTIK		RF	FB	1.00	(2.85 NM RADIUS CCW (CFPGV))	7.04	5000
STTIK		ROBBI		RF	FB	1.00	(2.85 NM RADIUS CCW (CFPGV))	1.87	5000
ROBBI		BALAS		TF	FB	1.00	215.82	3.14	4000
BALAS		NESBI		TF	FB	1.00	215.80	3.14	3000
NESBI	IF	PUKLE	PFAF	TF	FB	1.00	215.78	3.14	2200
PUKLE	PFAF	RW21L	MAP	TF	FO	0.30	215.75	4.12	
RW21L	MAP	1100 MSL		CA			215.75		1100
1100 MSL		GAAGE		DF	FO	1.00			4000



MISSED APPROACH

MAP:  
RNP: DA

MISSED APPROACH INSTRUCTIONS:  
CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 4000 DIRECT GAAGE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT ROBBI				
3. FAC:	215.75	PFAF: PUKLE	DIST PFAF TO MAP:	DIST PFAF TO THLD:	
4. MIN ALT:	ROBBI 5000, BALAS 4000, NESBI 3000, PUKLE 2200				
5. DIST TO THLD FROM OM:	4.12	MM:	IM:	150 HAT:	430 HAT: 1.18
6. MIN GP INCPT:	2000	GP ALT AT PFAF : PUKLE 2000		OM:	MM:
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 55.0	IM:
8. MSA FROM:	RW21L 2800				

PBN REQUIREMENTS NOTE:

RNP AR APCH.

NOTES:  
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.  
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -19°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART PLANVIEW NOTE ADJACENT TO RYEDR IAF: RF REQUIRED.  
CHART PLANVIEW NOTE ADJACENT TO COBBO IAF: RF REQUIRED.  
CHART PLANVIEW NOTE ADJACENT TO JEEEP IAF: RF REQUIRED.  
CHART SPEED ICON IN PLANVIEW AT RYEDR: MAX 210 KIAS.  
CHART SPEED ICON IN PLANVIEW AT COBBO: MAX 210 KIAS.  
CHART SPEED ICON IN PLANVIEW AT JEEEP: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 5000 AT WISIV.  
CHART MANDATORY 7000 AT RYEDR.  
CHART MANDATORY 6000 AT COBBO.  
CHART MINIMUM 5000 AT JEEEP.  
CHART AT OR BELOW 6000 AT STRNG.  
CHART MINIMUM 5000 AT COUNT.  
HOLD SE, RT, 303.46 INBOUND



AIRPORTDETROIT METROPOLITAN WAYNE  
COUNTYAIRPORT ID

KDTW

PROCEDURE NAME

RNAV (RNP) X RWY 21L

ORIGINAL/AMENDMENT

1

CITY

DETROIT

STATE

MI

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
AUTHORIZATION REQUIRED															
RNP 0.30 DA	1062	4000	430	1062	4000	430	1062	4000	430	1062	4000	430			

CHANGES - REASONS

1. TERMINAL ROUTE RYEDR TO STRNG CHANGED FROM 272.01/4.34 TO 302.79/3.08 - RYEDR MOVED 2.28 NM SOUTH FOR TPGUN STAR REDESIGN.
2. TERMINAL ROUTE RYEDR TO STRNG ALTITUDE CHANGED FROM 6000 TO 5500 - DESCENT GRADIENT FROM MANDATORY 7000 AT RYEDR.
3. TERMINAL ROUTE STRNG TO WISIV, RF CENTER FIX CHANGED FROM (CFVGH) TO (CFPHV), RADIUS CHANGED FROM 4.75NM TO 3.25 NM, DISTANCE CHANGED FROM 2.08 NM TO 3.17 NM - STRNG MOVED 1.19 NM SE DUE TO RYEDR RELOCATION.
4. MISSED APPROACH, ADDED CLIMB IN HOLD - AIRCRAFT ALTITUDE DID NOT REACH 4000 BY THE HOLDING FIX.
5. MAXIMUM SPEED ICON AT RYEDR CHANGED FROM 200 TO 210 - 200 ONLY ALLOWED UNDERNEATH CLASS B AIRSPACE.
6. ADDITIONAL FLIGHT DATA, REMOVED ROUTE TYPE AND ROUTE TYPE QUALIFIERS - NO LONGER REQUIRED BY 8260.19H.

COORDINATED WITH:A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZOB ARTCC, DTW APP CON, METRO TOWER

Digitally signed by

FLIGHT CHECKED BY**DAVID DANNER**OFFICEDATE

SHAWN D MAXWELL

Aug 26, 2019

FICO

7/27/19

DEVELOPED BY

Digitally signed by

RUSS ROSLEWSKI

**RUSSELL ROSLEWSKI**OFFICEDATE

May 08, 2019

AJV-A421

05/07/2019

APPROVED BY

MARLON ROBINSON

Digitally signed by

**DAVID DANNER**

Aug 26, 2019

OFFICE

AJV-A420

DATETITLE  
MANAGERQUALITY  
16  
CHECKED