

|   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
|---|--------|------|---------|--|------|---------|---|----------------------------------|---------|--|------|---------|--------|----------|---------|---|--|--|--|--|--|--|--|--|--|--|
| US DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION  |        |      |         |  |      |         | RNAV (RNP) - STANDARD,<br>INSTRUMENT APPROACH PROCEDURE,<br>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   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   | MISSED APPROACH  |  |  |  |  |  |  |  |  |  |
| FROM  |        |      |         | TO   |      |         |   | COURSE AND DISTANCE              |         |  |      |         |        | ALTITUDE |         | RNP: DA   |  |  |  |  |  |  |  |  |  |  |
| MERCA (IAF)   |        |      |         | SOLDD (TF) (FB) (RNP 1.00)   |      |         |   | 269.70 / 5.79                    |         |  |      |         |        | 6000     |         | CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 4000 DIRECT GAAGE AND HOLD.   |  |  |  |  |  |  |  |  |  |  |
| SOLDD   |        |      |         | BBBOB (RF) (FB) (RNP 1.00)   |      |         |   | (2.63 NM RADIUS CW (CFDTQ))/2.06 |         |  |      |         |        | 5000     |         |   |  |  |  |  |  |  |  |  |  |  |
| BBBOB   |        |      |         | WILOO (RF) (FB) (RNP 1.00)   |      |         |   | (2.56 NM RADIUS CW (CFPLP))/3.63 |         |  |      |         |        | 5000     |         | ADDITIONAL FLIGHT DATA:<br>HOLD SE, RT, 303.46 INBOUND.<br>DISTANCE TO THLD FROM 388 HAT: 1.05 NM.<br>CHART MANDATORY 7000 AT MERCA.<br>CHART MANDATORY 5000 AT BBBOB.<br>CHART MANDATORY 6000 AT BRDR.<br>ROUTE TYPE: A, H<br>ROUTE TYPE QUALIFIER 1: F<br>ROUTE TYPE QUALIFIER 2: S<br>CHART MAXIMUM 6000 AT SOLDD.<br>CHART MINIMUM 5000 AT WILOO.<br>CHART MINIMUM 5000 AT BRAXN. |  |  |  |  |  |  |  |  |  |  |
| WILOO (IAF)   |        |      |         | LEWUK (TF) (FB) (RNP 1.00)   |      |         |   | 035.56 / 4.00                    |         |  |      |         |        | 5000     |         |   |  |  |  |  |  |  |  |  |  |  |
| LEWUK<br>(SEE FORM 8260-10)   |        |      |         | HARLA (TF) (FB) (RNP 1.00)   |      |         |   | 035.59 / 1.14                    |         |  |      |         |        | 5000     |         |   |  |  |  |  |  |  |  |  |  |  |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)  |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   | MAG VAR: 7W EPOCH YEAR: 2020   |  |  |  |  |  |  |  |  |  |
| 2. PROFILE STARTS AT LIONZ  |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| 3. FAC: 035.68 FAF: _____ DIST FAF TO MAP: _____ THLD: _____  |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| 4. MIN. ALT: LIONZ 5000, WATCH 4000, RIBME 3000, NUVUE 2000   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| 5. DIST TO THLD FROM OM: 4.12 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| 6. MIN GS INCPT: 2000 GS ALT AT: NUVUE 2000 OM: _____ MM: _____ IM: _____   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| 7. GS ANGLE: 3.00 TCH: 54.3 20:1 IS CLEAR 34:1 IS CLEAR   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| 8. MSA FROM: RW03R 2800   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| 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 |   |  |  |  |  |  |  |  |  |  |  |
|   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
|   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
|   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| AUTHORIZATION REQUIRED  |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| RNP 0.30 DA   | 1021   | 3500 | 388     | 1021   | 3500 | 388     | 1021  | 3500                             | 388     | 1021   | 3500 | 388     |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
|   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
|   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| NOTES:<br>CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -19C (-2F) OR ABOVE 54C (130F).<br>CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.<br>CHART SPEED ICON IN PLANVIEW AT MERCA : MAX 210 KIAS. |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| (CONTINUED ON PAGE 2)   |        |      |         |  |      |         |   |                                  |         |  |      |         |        |          |         |   |  |  |  |  |  |  |  |  |  |  |
| CITY AND STATE<br>DETROIT, MI   |        |      |         | ELEVATION: 645 TDZE: 633<br>AIRPORT NAME:<br>DETROIT METROPOLITAN WAYNE COUNTY |      |         |   | FACILITY IDENTIFIER:<br>RNAV     |         | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (RNP) X RWY 3R, ORIG<br>24 MAY 2018 |      |         |        |          |         | SUP:<br>AMDT: NONE<br>DATED   |  |  |  |  |  |  |  |  |  |  |

|  |                                   |                                  |   |   |
|--|-----------------------------------|----------------------------------|---|---|
| US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  |                                   |                                  | 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. |   |
| RNAV (RNP) - STANDARD,<br>INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33   |                                   |                                  |   |   |
| TERMINAL ROUTES, (CONT.):  |                                   |                                  |   |   |
| FROM   | TO                                | COURSE AND DISTANCE              | ALTITUDE  |   |
| HARLA  | LIONZ (TF) (FB) (RNP 1.00)        | 035.60 / 2.00                    | 5000  |   |
| BRDER (IAF)  | JOSHY (TF) (FB) (RNP 1.00)        | 299.33 / 5.87                    | 5000  |   |
| BRAXN (IAF)  | KNNNY (TF) (FB) (RNP 1.00)        | 214.75 / 3.50                    | 5000  |   |
| KNNNY  | JOSHY (RF) (FB) (RNP 1.00)        | (2.75 NM RADIUS CW (CFVCH))/4.06 | 5000  |   |
| JOSHY  | LIONZ (RF) (FB) (RNP 1.00)        | (2.75 NM RADIUS CW (CFVCH))/4.63 | 5000  |   |
| LIONZ  | WATCH (TF) (FB) (RNP 1.00)        | 035.61 / 3.14                    | 4000  |   |
| WATCH  | RIBME (TF) (FB) (RNP 1.00)        | 035.63 / 3.14                    | 3000  |   |
| RIBME (IF)   | NUVUE (TF) (FB) (RNP 1.00)        | 035.66 / 3.14                    | 2000  |   |
| NUVUE (FAF)  | RW03R (MAP) (TF) (FO) (RNP 0.30)  | 035.68 / 4.12                    |   |   |
| RW03R (MAP)  | 1100 MSL (CA)                     | 035.68                           | 1100  |   |
| 1100 MSL   | GAAGE (DF) (FO) (RNP 1.00)        |                                  | 4000  |   |
| NOTES, (CONT.):<br>CHART SPEED ICON IN PLANVIEW AT BRDER : MAX 210 KIAS.<br>CHART SPEED ICON IN PLANVIEW AT BRAXN : MAX 200 KIAS.<br>CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).<br>PBN REQUIREMENTS NOTE: RNP AR APCH, RF REQUIRED. |                                   |                                  |   |   |
| CITY AND STATE   | ELEVATION: 645                    | TDZE: 633                        | FACILITY IDENTIFIER:  | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: |
| DETROIT, MI  | AIRPORT NAME:                     |                                  | RNAV  | RNAV (RNP) X RWY 3R, ORIG               |
|  | DETROIT METROPOLITAN WAYNE COUNTY |                                  |   | 24 MAY 2018                             |
|  |                                   |                                  | SUP:  |   |
|  |                                   |                                  | AMDT:   | NONE                                    |
|  |                                   |                                  | DATED:  |   |

QUALITY  
35  
CHECKED