

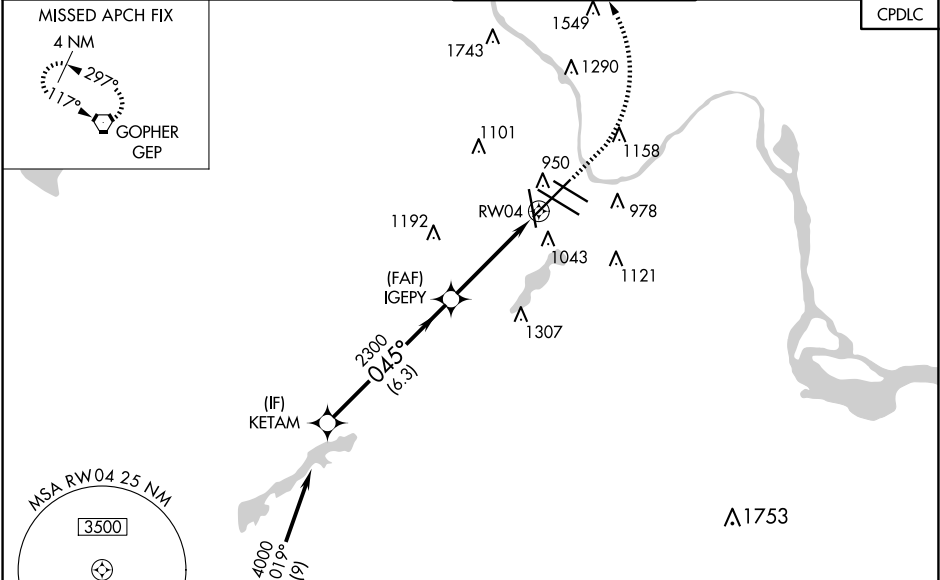
|                                        |                        |                                                               |
|----------------------------------------|------------------------|---------------------------------------------------------------|
| WAAS<br>CH <b>72931</b><br><b>W04A</b> | APP CRS<br><b>045°</b> | Rwy Idg <b>9456</b><br>TDZE <b>832</b><br>Apt Elev <b>842</b> |
|----------------------------------------|------------------------|---------------------------------------------------------------|

RNAV (GPS) RWY 4

MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (MSP)

|                                                                                                                                                                                                                                                                                |        |                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------|
| RNP APCH.                                                                                                                                                                                                                                                                      | MALS R | MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 direct GEP VORTAC and hold. |
| ▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C. For inop ALS, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to 1 3⁄8 SM, LNAV Cat C/D/E visibility to 1 3⁄8 SM. #RVR 1800 authorized with use of FD or AP or HUD to DA. |        |                                                                                            |

|                                                         |                                                                                                                                    |                                                                                                                             |                                                                                   |                          |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------|
| D-ATIS<br>ARR <b>135.35 239.275</b><br>DEP <b>120.8</b> | MINNEAPOLIS APP CON<br><b>118.725 335.65</b> (Rwy 35)<br><b>119.3 335.65</b> (12L-30R, 4-22, 17)<br><b>126.95 335.65</b> (12R-30L) | MINNEAPOLIS TOWER<br><b>123.675 273.55</b> (17-35)<br><b>123.95 273.55</b> (12L-30R)<br><b>126.7 273.55</b> (12R-30L, 4-22) | GND CON<br><b>N 121.8 348.6</b><br><b>S 121.9 348.6</b><br><b>W 127.925 348.6</b> | CLNC DEL<br><b>133.2</b> |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------|



|                                    |                       |                                                                  |                            |                  |                            |            |                     |
|------------------------------------|-----------------------|------------------------------------------------------------------|----------------------------|------------------|----------------------------|------------|---------------------|
| KETAM                              |                       | VGSi and RNAV glidepath not coincident (VGSi Angle 3.00/TCH 76). |                            | ELEV 842         |                            | D TDZE 832 |                     |
| 4000                               |                       | IGEPEY                                                           |                            | 1300             |                            | 3000       |                     |
| GP 3.00°                           |                       | 2300                                                             |                            | *1.2 NM to RWY04 |                            | *LNAV only |                     |
| TCH 55                             |                       | 2300                                                             |                            | RWY04            |                            |            |                     |
| 6.3 NM                             |                       | 3.2 NM                                                           |                            | 1.2 NM           |                            |            |                     |
| CATEGORY                           | A                     | B                                                                | C                          | D                | E                          |            |                     |
| LPV DA#                            | 1032/24 200 (200-1⁄2) |                                                                  |                            |                  |                            |            |                     |
| LNAV/VNAV DA                       | 1281/45 449 (500-7⁄8) |                                                                  |                            |                  |                            |            |                     |
| LNAV MDA                           | 1300/24 468 (500-1⁄2) |                                                                  | 1300/50 468 (500-1)        |                  |                            |            |                     |
| CIRCLING                           | 1360-1 518 (600-1)    |                                                                  | 1460-1 3⁄4 618 (700-1 3⁄4) |                  | 1660-2 3⁄4 818 (900-2 3⁄4) |            | 1800-3 958 (1000-3) |
| HIRL all Rwy's                     |                       |                                                                  |                            |                  |                            |            |                     |
| REIL Rwy 17                        |                       |                                                                  |                            |                  |                            |            |                     |
| TDZ/CL Rwy's 12L, 12R, 30L, and 35 |                       |                                                                  |                            |                  |                            |            |                     |