

VICTO (RNAV)

Point Of Contact

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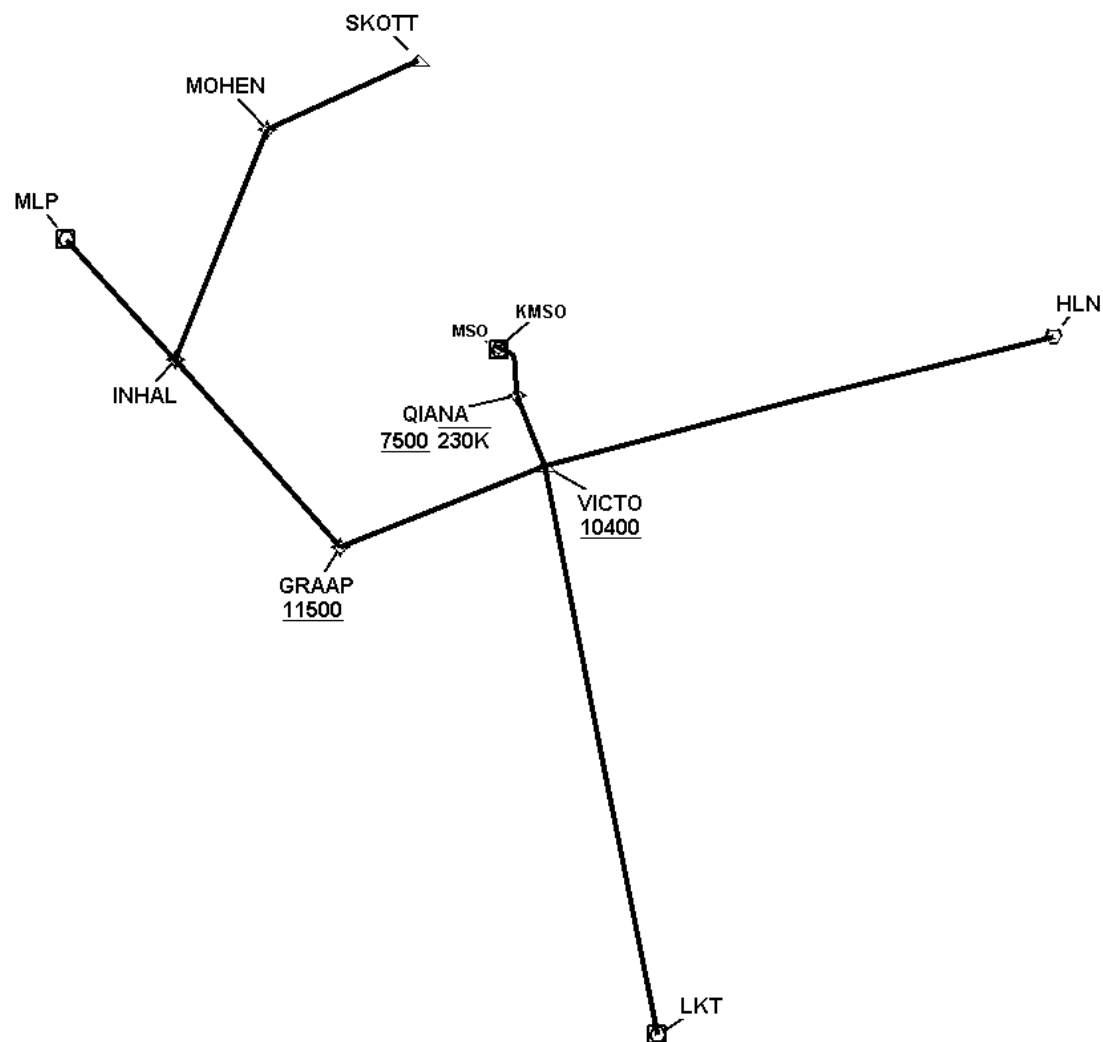
FAX Number -

Email Address - Mark.Whitney@faa.gov

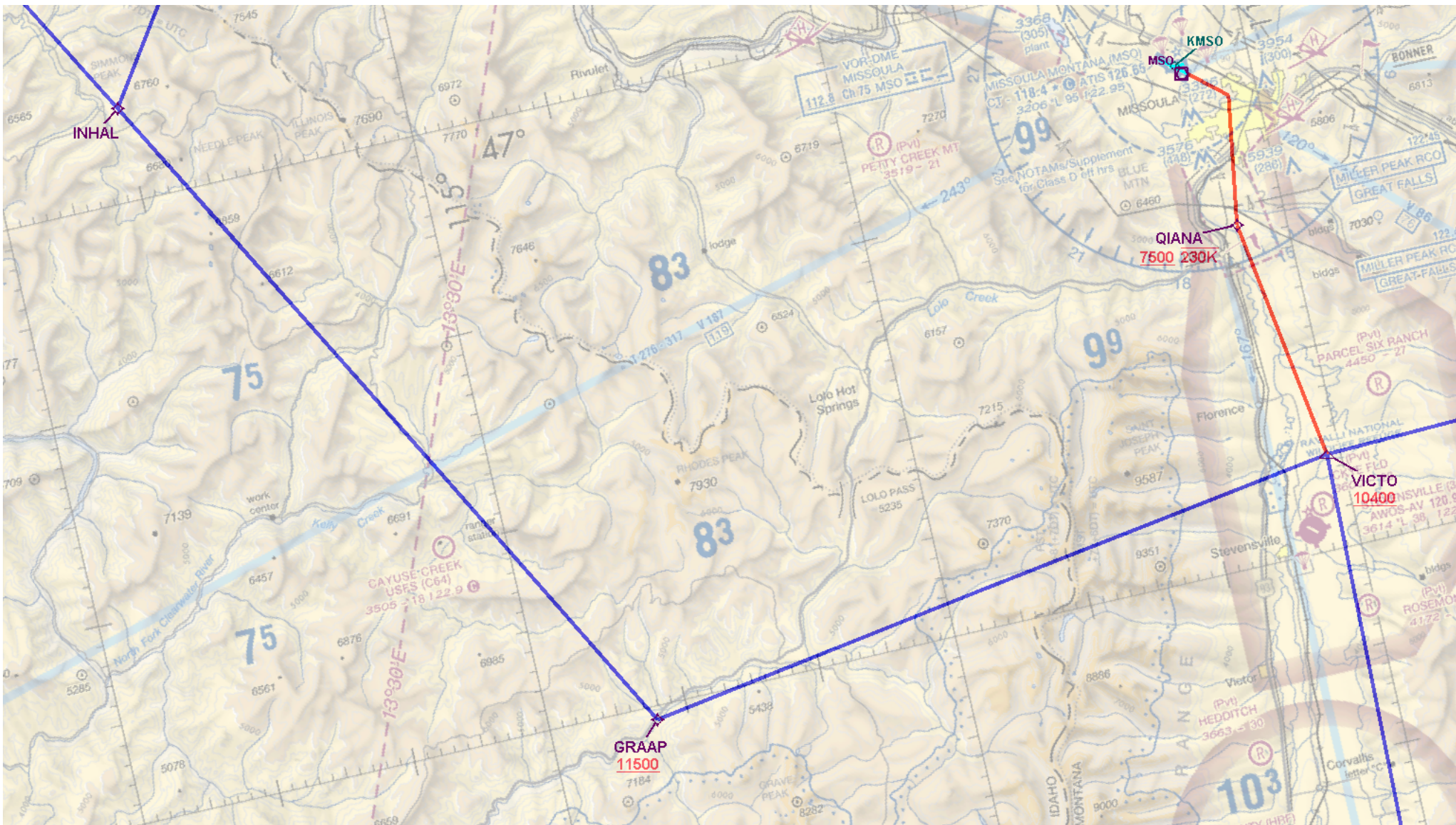
TARGETS Distribution Package

Version:7.0.2

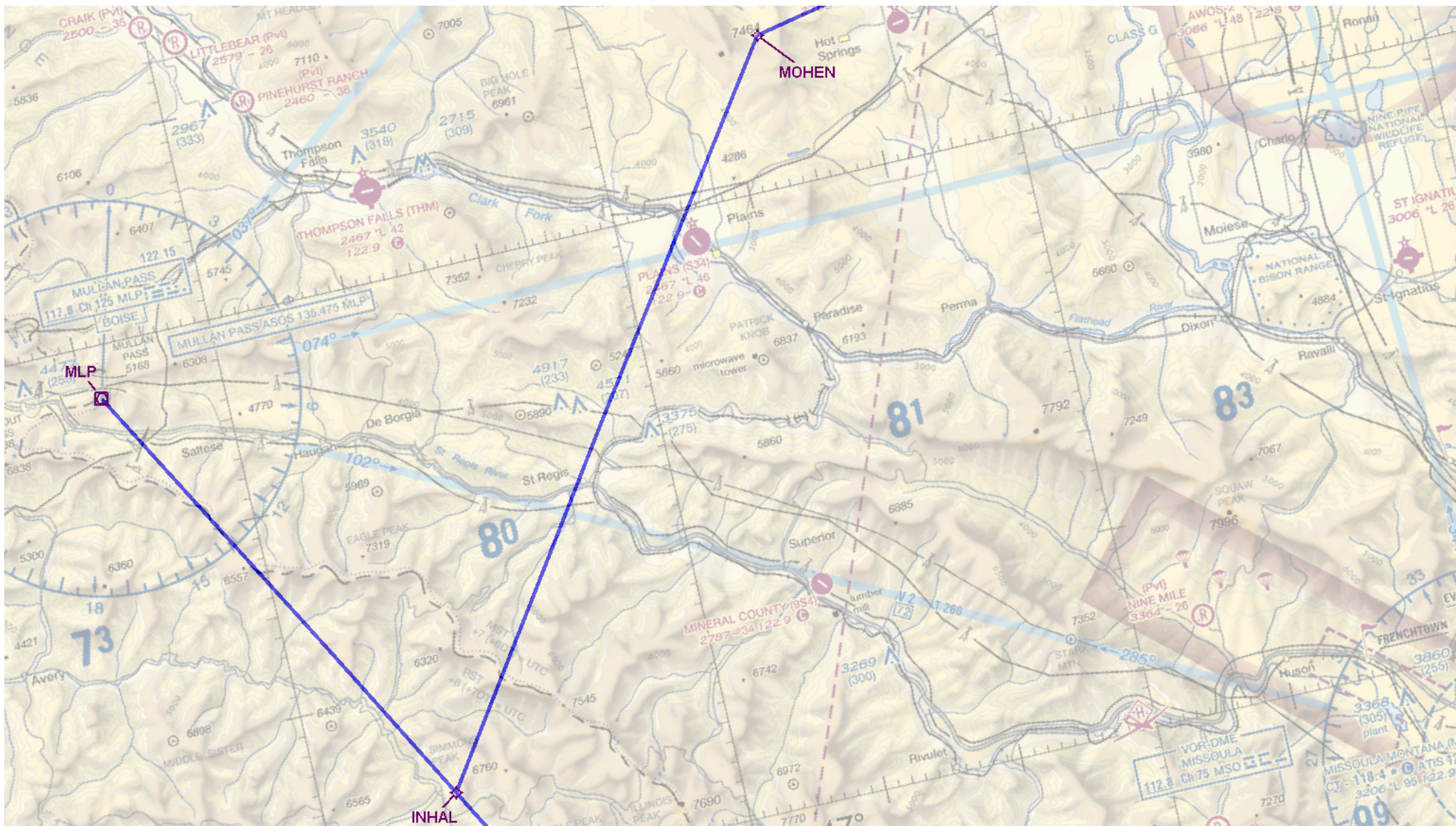
Date: Fri Mar 03 14:12:14 CST 2023



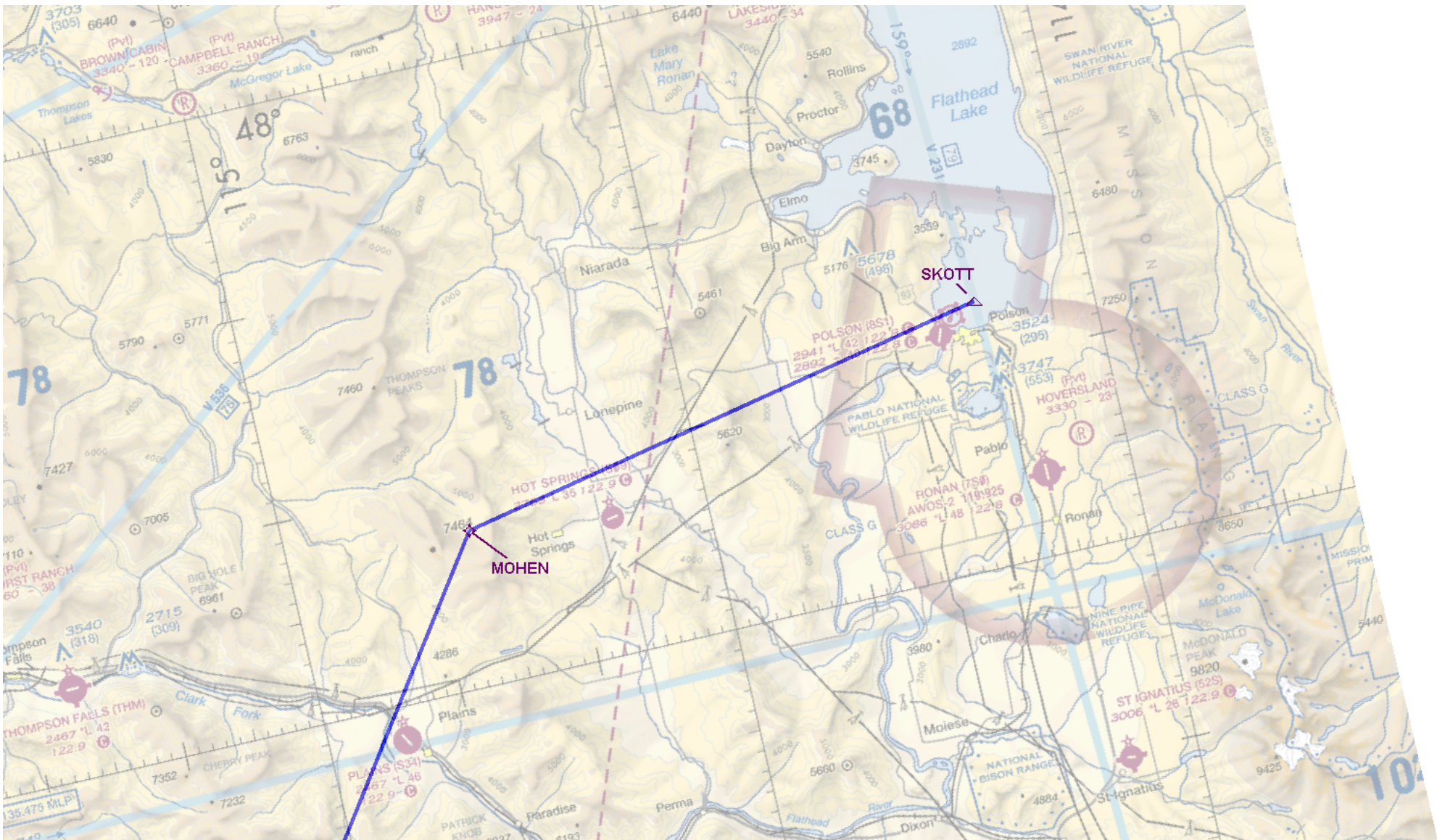
VICTO (RNAV)



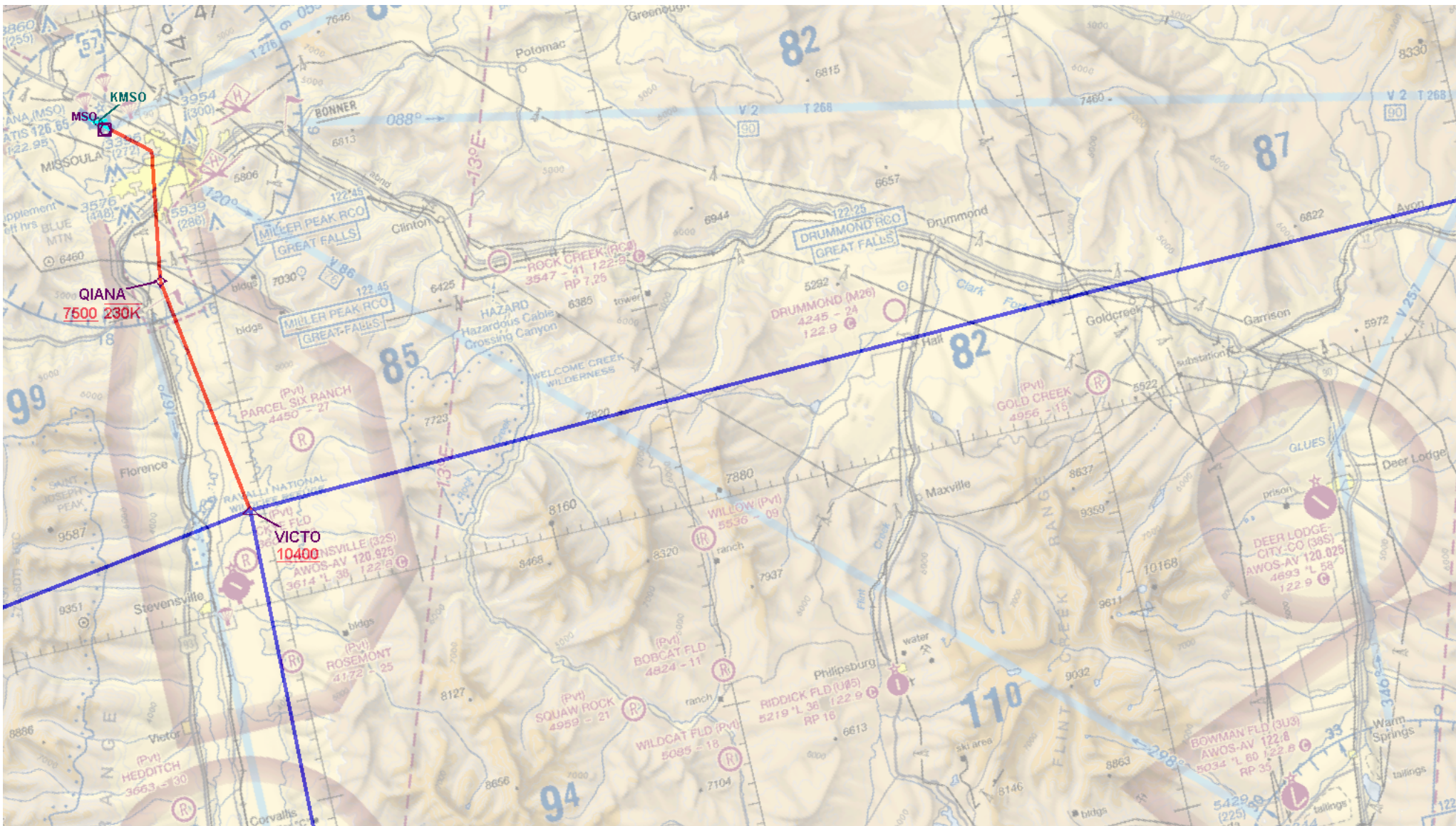
VICTO (RNAV)



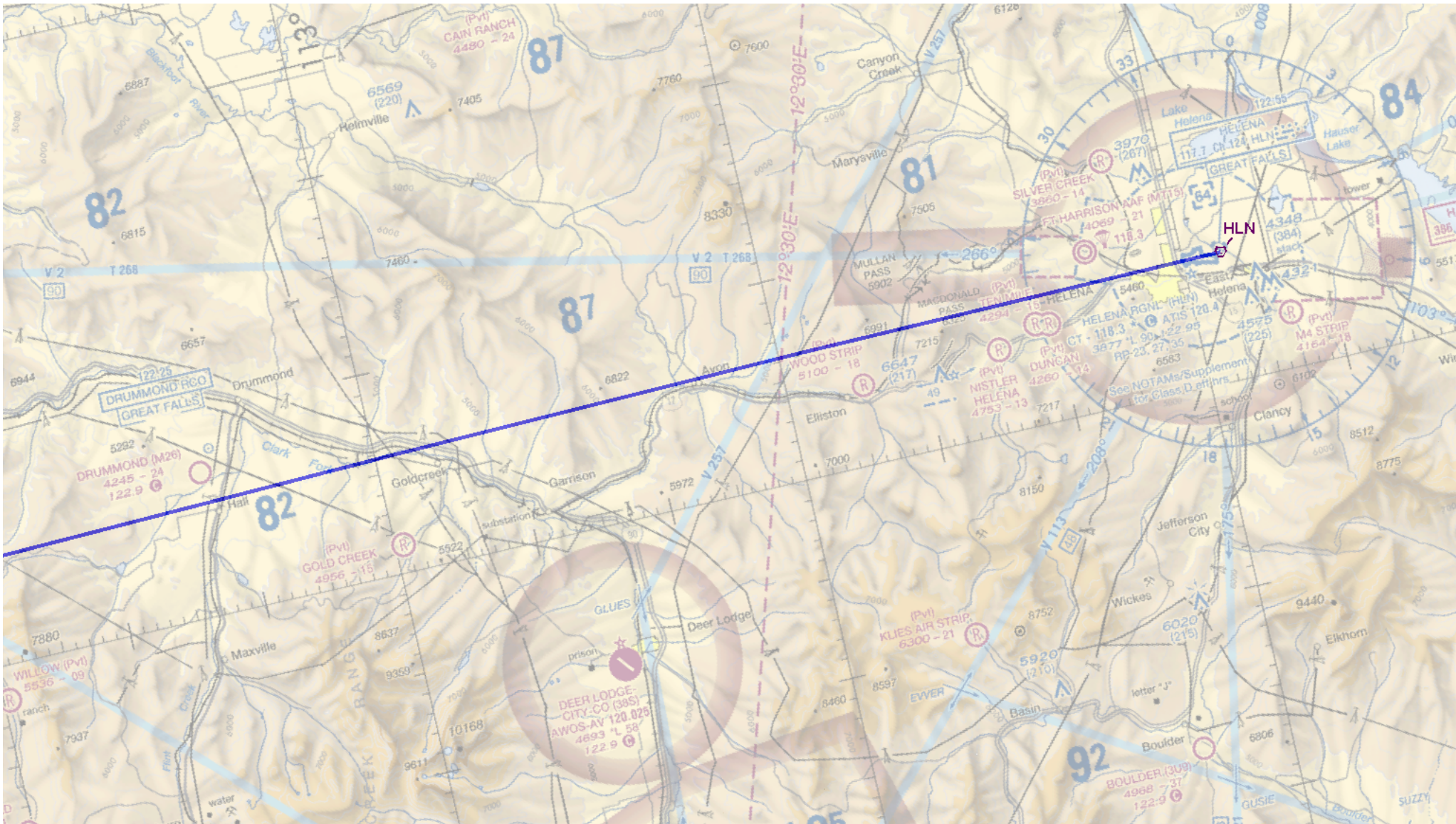
VICTO (RNAV)



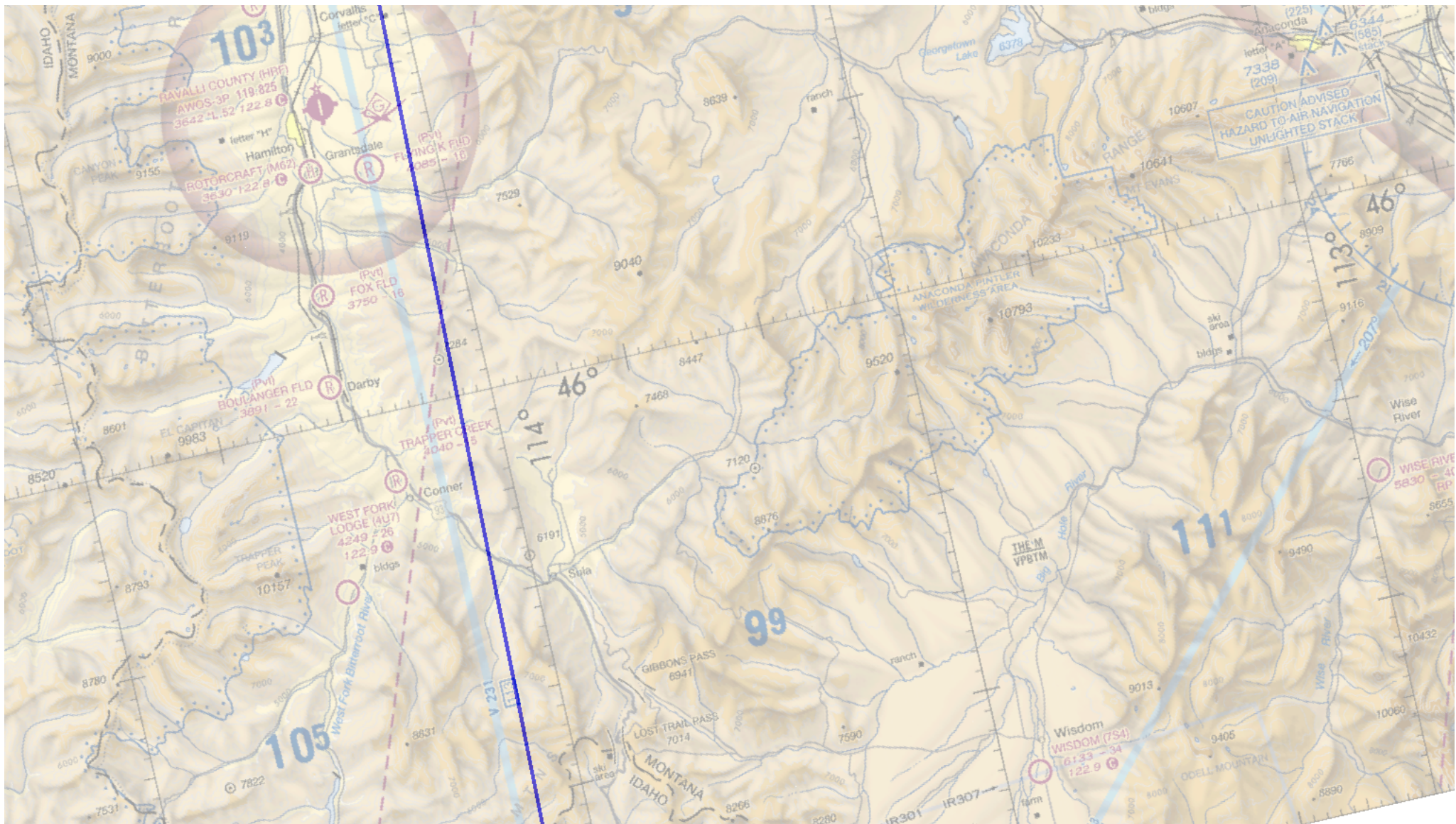
VICTO (RNAV)



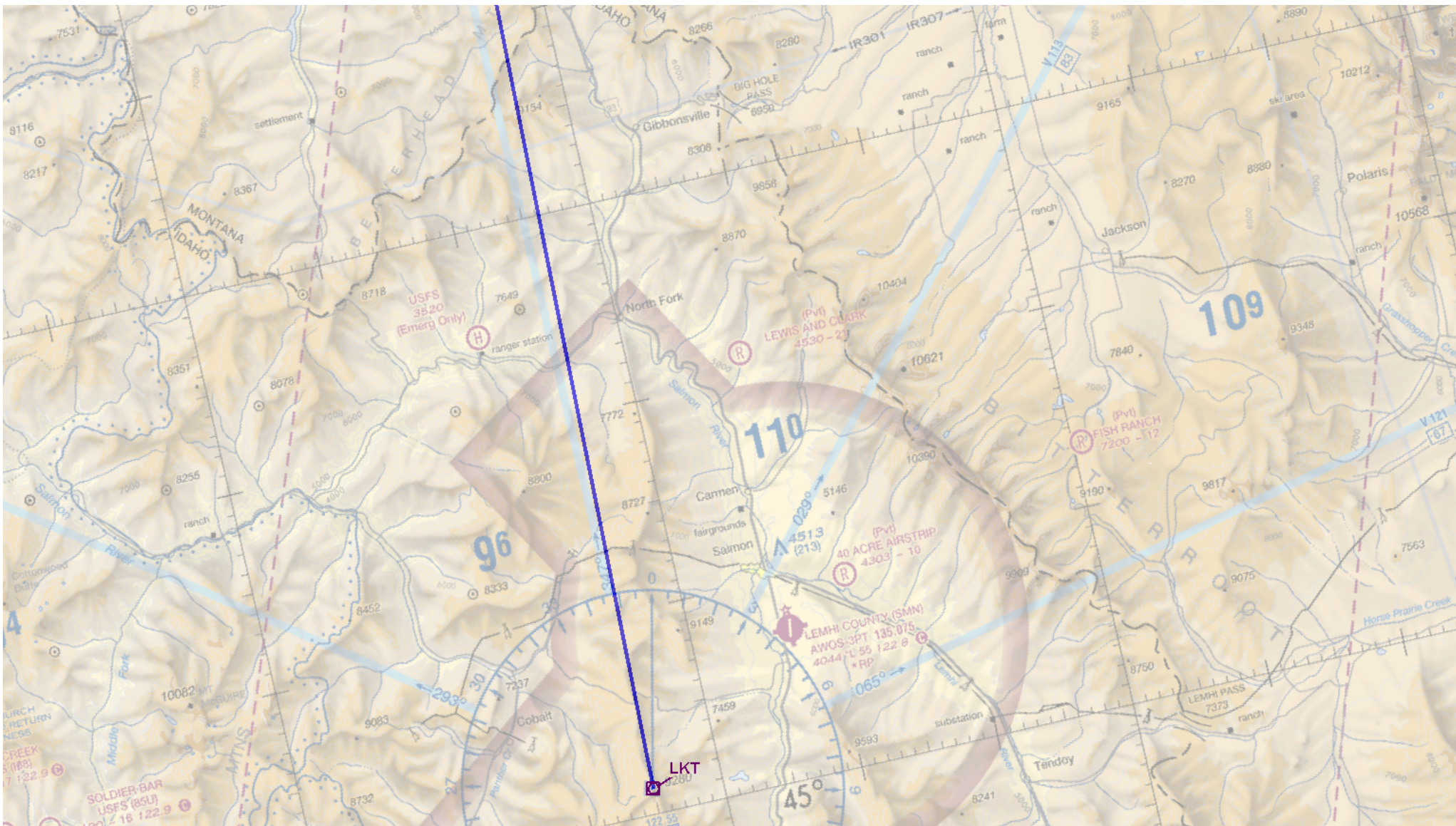
VICTO (RNAV)



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Runway Transition Data - KMSO:RW12

| DB | End Point | Latitude (D° M' S.ss") | Longitude (D° M' S.ss") | FO/ FB | Leg | TC | MC | Dist. | Altitude | Speed | MEA | MOCA | Turn Dir | Arc Center Lat (D° M' S.ss") | Arc Center Lon (D° M' S.ss") | Arc Radius (NM) |
|---------------------------------------|-------------|---------------------------|----------------------------|-----------|-----|--------|--------|-------|----------|-------|-----|------|----------|---------------------------------|---------------------------------|-----------------------|
| IFPA r23 08-12-21 TO UNK | DER RW12 | N46 54 28.59 | W114 04 39.50 | | | | | | | | | | | | | |
| | | | | | VI | 130.45 | 117.45 | 2.29 | | | | | | | | |
| | QIANA WP | N46 46 38.50 | W114 03 35.29 | FB | CF | 189.00 | 176.00 | 6.43 | +7500 | -230 | | | | | | |
| IFPA PND r3 08-10- 23 TO UNK | VICTO WP | N46 34 40.81 | W114 00 58.98 | FB | TF | 171.46 | 158.46 | 12.10 | +10400 | | | | | | | |

En Route Transition Data - HLN

| DB | End Point | Latitude (D° M' S.ss") | Longitude (D° M' S.ss") | FO/ FB | Leg | TC | MC | Dist. | Altitude | Speed | MEA | MOCA | Turn Dir | Arc Center Lat (D° M' S.ss") | Arc Center Lon (D° M' S.ss") | Arc Radius (NM) |
|--|---------------|---------------------------|----------------------------|-----------|-----|--------|--------|-------|----------|-------|-------|-------|----------|---------------------------------|---------------------------------|-----------------------|
| IFPA PND r3 08-10- 23 TO UNK | VICTO WP | N46 34 40.81 | W114 00 58.98 | | IF | | | | +10400 | | | | | | | |
| IFPA PND r27 05-18- 23 TO UNK | HLN VORTAC | N46 36 24.56 | W111 57 12.51 | FB | TF | 088.09 | 075.09 | 85.37 | | | 10000 | 10000 | | | | |

En Route Transition Data - LKT

| DB | End Point | Latitude (D° M' S.ss") | Longitude (D° M' S.ss") | FO/ FB | Leg | TC | MC | Dist. | Altitude | Speed | MEA | MOCA | Turn Dir | Arc Center Lat (D° M' S.ss") | Arc Center Lon (D° M' S.ss") | Arc Radius (NM) |
|---------------------------------------|--------------------|---------------------------|----------------------------|-----------|-----|--------|--------|-------|----------|-------|-------|-------|----------|---------------------------------|---------------------------------|-----------------------|
| IFPA PND r3 08-10- 23 TO UNK | VICTO WP | N46 34 40.81 | W114 00 58.98 | | IF | | | | +10400 | | | | | | | |
| IFPA r12 03-31-16 TO UNK | LKT VOR/DM E | N45 01 16.72 | W114 05 03.25 | FB | TF | 181.77 | 168.77 | 93.47 | | | 11500 | 11500 | | | | |

VICTO (RNAV)

En Route Transition Data - MLP

| DB | End Point | Latitude (D° M' S.ss") | Longitude (D° M' S.ss") | FO/ FB | Leg | TC | MC | Dist. | Altitude | Speed | MEA | MOCA | Turn Dir | Arc Center Lat (D° M' S.ss") | Arc Center Lon (D° M' S.ss") | Arc Radius (NM) |
|---------------------------------------|--------------------|---------------------------|----------------------------|-----------|-----|--------|--------|-------|----------|-------|-------|-------|----------|---------------------------------|---------------------------------|-----------------------|
| IFPA PND r3 08-10- 23 TO UNK | VICTO WP | N46 34 40.81 | W114 00 58.98 | | IF | | | | +10400 | | | | | | | |
| | GRAAP WP | N46 29 23.52 | W114 52 17.17 | FB | TF | 261.82 | 248.82 | 35.81 | +11500 | | 11500 | 11500 | | | | |
| IFPA r12 08-22-13 TO UNK | MLP VOR/DM E | N47 27 24.85 | W115 38 45.76 | FB | TF | 331.55 | 318.55 | 66.20 | | | 11800 | 10200 | | | | |

En Route Transition Data - SKOTT

| DB | End Point | Latitude (D° M' S.ss") | Longitude (D° M' S.ss") | FO/ FB | Leg | TC | MC | Dist. | Altitude | Speed | MEA | MOCA | Turn Dir | Arc Center Lat (D° M' S.ss") | Arc Center Lon (D° M' S.ss") | Arc Radius (NM) |
|---------------------------------------|-------------|---------------------------|----------------------------|-----------|-----|--------|--------|-------|----------|-------|-------|-------|----------|---------------------------------|---------------------------------|-----------------------|
| IFPA PND r3 08-10- 23 TO UNK | VICTO WP | N46 34 40.81 | W114 00 58.98 | | IF | | | | +10400 | | | | | | | |
| | GRAAP WP | N46 29 23.52 | W114 52 17.17 | FB | TF | 261.82 | 248.82 | 35.81 | +11500 | | 11500 | 11500 | | | | |
| | INHAL WP | N47 04 39.89 | W115 20 18.53 | FB | TF | 331.55 | 318.55 | 40.20 | | | 11800 | 10200 | | | | |
| | MOHEN WP | N47 37 34.85 | W114 46 55.15 | FB | TF | 034.38 | 021.38 | 40.00 | | | 11800 | 9700 | | | | |
| IFPA PND r9 08-10- 23 TO UNK | SKOTT WP | N47 42 53.99 | W114 08 24.27 | FB | TF | 078.21 | 065.21 | 26.57 | | | 11800 | 9700 | | | | |

VICTO (RNAV)

Point Data

| DB | Point | Arc Center | Lat-Long (DMS.S) | Latitude (Deg) | Longitude (Deg) | Latitude (D°, M.mm') | Longitude (D°, M.mm') | Latitude (D° M' S.ss") | Longitude (D° M' S.ss") |
|--|-------------|------------|------------------------|----------------|-----------------|----------------------|-----------------------|------------------------|-------------------------|
| | GRAAP WP | | 462923.52N-1145217.17W | N 046.4898667 | W 114.8714369 | N46 29.392 | W114 52.286 | N46 29 23.52 | W114 52 17.17 |
| IFPA PND r27 05-18- 23 TO UNK | HLN VORTAC | | 463624.56N-1115712.51W | N 046.6068214 | W 111.9534752 | N46 36.409 | W111 57.209 | N46 36 24.56 | W111 57 12.51 |
| | INHAL WP | | 470439.89N-1152018.53W | N 047.0777462 | W 115.3384803 | N47 04.665 | W115 20.309 | N47 04 39.89 | W115 20 18.53 |
| IFPA r12 03-31-16 TO UNK | LKT VOR/DME | | 450116.72N-1140503.25W | N 045.0213117 | W 114.0842367 | N45 01.279 | W114 05.054 | N45 01 16.72 | W114 05 03.25 |
| IFPA r12 08-22-13 TO UNK | MLP VOR/DME | | 472724.85N-1153845.76W | N 047.4569031 | W 115.6460450 | N47 27.414 | W115 38.763 | N47 27 24.85 | W115 38 45.76 |
| | MOHEN WP | | 473734.85N-1144655.15W | N 047.6263482 | W 114.7819870 | N47 37.581 | W114 46.919 | N47 37 34.85 | W114 46 55.15 |
| IFPA r18 05-24-18 TO UNK | MSO VOR/DME | | 465428.68N-1140501.15W | N 046.9079668 | W 114.0836523 | N46 54.478 | W114 05.019 | N46 54 28.68 | W114 05 01.15 |
| | QIANA WP | | 464638.50N-1140335.29W | N 046.7773611 | W 114.0598029 | N46 46.642 | W114 03.588 | N46 46 38.50 | W114 03 35.29 |
| IFPA PND r9 08-10- 23 TO UNK | SKOTT WP | | 474253.99N-1140824.27W | N 047.7149972 | W 114.1400750 | N47 42.900 | W114 08.404 | N47 42 53.99 | W114 08 24.27 |
| IFPA PND r3 08-10- 23 TO UNK | VICTO WP | | 463440.81N-1140058.98W | N 046.5780028 | W 114.0163833 | N46 34.680 | W114 00.983 | N46 34 40.81 | W114 00 58.98 |

VICTO (RNAV)

ADJ FINAL - RS Results 02 VICTO (RNAV)

Last Evaluation: 03-Mar-2023 14:00:58

Reference Software Version: 2.10.2

Project Chart Date: 08/10/2023

Controlling Obstacles for RW12 Runway Evaluation

CG Controlling Obstacle

| | | |
|--|----------------------------------|----------------------------------|
| Name: | GC GCTA AAO | |
| Obstacle Type: | AAO | |
| Height (ft) AMSL: | 5920 | |
| Location: | N46° 48' 08.87",W113° 58' 56.21" | |
| Accuracy Code (H/V (ft) AMSL): | 2C (+50/+20) | |
| Applied Horizontal Accuracy (ft) AMSL: | 50 | |
| Applied Vertical Accuracy (ft) AMSL: | 20 | |
| | Original Values | Adjusted Values |
| Effective Height (ft) AMSL: | 5920 | 5920 |
| Primary Evaluation Point: | N46° 48' 20.48",W113° 59' 17.06" | N46° 48' 20.48",W113° 59' 17.06" |
| Tieback Distance (ft): | 36770 | 36770 |
| Primary Evaluation Distance (ft): | 43138 | 43138 |
| Secondary Evaluation Distance (ft): | 1867.4 | 1867.4 |
| Level Surface ROC (ft): | 1346.3 | 1346.3 |
| Amount of Penetration (ft): | -16 | -16 |
| Required Termination Altitude (ft) AMSL: | 6572.3 | 6572.3 |
| Required Climb Gradient (ft/NM): | 474 | 474 |
| OCS Altitude (ft) AMSL: | 5936 | 5936 |
| Minimum Aircraft Altitude (ft) AMSL: | 6593.3 | 6593.3 |

VICTO (RNAV)

En Route Controlling Obstacles

MOCA

| Start Pt | End Pt | Name | Source | Obstacle Type | AC (H/V (ft)) | Lat | Long | Height (ft) | Height (ft) AMSL | Mnts Area | Pri/Sec Area | ROC (ft) | Worst Case Veg Ht (ft) | Leg MOCA (ft) | Min OCA (ft) | TARGETS Instance Date | Man-Made Obstacle |
|----------|--------|-----------------|--------|---------------|-------------------|--------------------|---------------------|-------------|------------------|-----------|--------------|-------------|------------------------|---------------|--------------|------------------------------|-------------------|
| VICTO | GRAAP | GRAAP AAO | UD | OTHER | 4E (+250/+125) | N46° 30' 57.00" | W114° 17' 57.00" | 9446.00 | 9446.00 | true | P | 2000.0 0 | 100 | 11446 | 11446.00 | Thu Mar 02 11:40:48 CST 2023 | false |
| VICTO | LKT | LKT AAO | UD | OTHER | 4E (+250/+125) | N45° 01' 18.00" | W114° 05' 03.00" | 9426.00 | 9426.00 | true | P | 2000.0 0 | 100 | 11426 | 11426.00 | Thu Mar 02 11:50:35 CST 2023 | false |
| GRAAP | MLP | MLP + INHAL AAO | UD | OTHER | 4E (+250/+125) | N46° 40' 36.00" | W114° 47' 03.00" | 8114.00 | 8114.00 | true | P | 2000.0 0 | 100 | 10114 | 10114.00 | Thu Mar 02 11:44:46 CST 2023 | false |
| GRAAP | INHAL | MLP + INHAL AAO | UD | OTHER | 4E (+250/+125) | N46° 40' 36.00" | W114° 47' 03.00" | 8114.00 | 8114.00 | true | P | 2000.0 0 | 100 | 10114 | 10114.00 | Thu Mar 02 11:44:46 CST 2023 | false |
| VICTO | HLN | HLN AAO | UD | OTHER | 4E (+250/+125) | N46° 35' 27.00" | W113° 33' 21.00" | 7992.00 | 7992.00 | true | P | 2000.0 0 | 100 | 9992 | 9992.00 | Thu Mar 02 11:39:47 CST 2023 | false |
| INHAL | MOHEN | MOHEN AAO | UD | OTHER | 4E (+250/+125) | N47° 07' 36.00" | W115° 11' 15.00" | 7664.00 | 7664.00 | true | P | 2000.0 0 | 100 | 9664 | 9664.00 | Thu Mar 02 11:45:38 CST 2023 | false |
| MOHEN | SKOTT | SKOTT AAO | UD | OTHER | 4E (+250/+125) | N47° 37' 18.00" | W114° 49' 30.00" | 7648.00 | 7648.00 | true | P | 2000.0 0 | 100 | 9648 | 9648.00 | Thu Mar 02 11:46:21 CST 2023 | false |

No MCA Obstacles

Runway Evaluation for RW12

| | |
|---|---------|
| DER Elevation (ft): | 3205.50 |
| ICA Turn Altitude (ft): | 3706.00 |
| ICA Length (NM): | 1.05 |
| ICAE OCS Height (ft): | 3585.76 |
| LNAV Engagement CG (ft/NM): | - |
| LNAV Engagement Termination Altitude (ft): | - |
| Obstacle Climb Gradient (ft/NM): | 477.0 |
| Obstacle CG Termination Altitude (ft): | 6600.0 |
| Inhibit controlling obstacles within ICA Extended 3SM Area: | false |

Route Evaluation for KMSO:RW12:HLN

VICTO (RNAV)

Required Engagement Climb Gradient (ft/NM): -

KMSO:RW12:HLN Evaluation Results Part 1/2

| Leg Tp | End Pt | Turn Tp | Alt Restr | Alt Restr 2 | Spd Restr | Min CG Calc Alt | Turn Ang | Leg Length | Min Seg Length |
|--------|--------|---------|-----------|-------------|-----------|-----------------|----------|------------|----------------|
| VI | | | | | | 4297.42 | 58.52 | 2.29 | 1.05 |
| CF | QIANA | FLY_BY | +7500.00 | | 230.00 | 6921.38 | 17.54 | 6.43 | 2.85 |
| TF | VICTO | FLY_BY | +10400.00 | | | 9342.32 | 83.4 | 12.1 | 6.86 |
| TF | HLN | FLY_BY | | | | 26431.84 | | 85.37 | 5.4 |

KMSO:RW12:HLN Evaluation Results Part 2/2

| Leg Tp | End Pt | Turn Tp | DTA1 | DTA1 Turn Rad | DTA1 Turn Alt | DTA1 Turn Spd | DTA1 Bank Ang | DTA1 Tailwind | DTA1 True Airspd | DTA1 vGround | DTA2 | DTA2 Turn Rad | DTA2 Turn Alt | DTA2 Turn Spd | DTA2 Bank Ang | DTA2 Tailwind | DTA2 True Airspd | DTA2 vGround |
|--------|--------|---------|------|---------------|---------------|---------------|---------------|---------------|------------------|--------------|------|---------------|---------------|---------------|---------------|---------------|------------------|--------------|
| VI | | | | | 0.0 | 0.0 | | | | | 1.39 | 2.48 | 4349.55 | 230.0 | 25.0 | 30.0 | 251.85 | 281.85 |
| CF | QIANA | FLY_BY | 1.39 | 2.48 | 4349.55 | 230.0 | 25.0 | 30.0 | 251.85 | 281.85 | 1.46 | 9.45 | 7566.62 | 230.0 | 8.77 | 51.56 | 264.68 | 316.23 |
| TF | VICTO | FLY_BY | 1.46 | 9.45 | 7566.62 | 230.0 | 8.77 | 51.56 | 264.68 | 316.23 | 5.4 | 6.06 | 12533.72 | 300.0 | 25.49 | 71.82 | 373.62 | 445.44 |
| TF | HLN | FLY_BY | 5.4 | 6.06 | 12533.72 | 300.0 | 25.49 | 71.82 | 373.62 | 445.44 | 0.0 | | 41000.0 | 300.0 | 0.0 | 128.18 | 628.54 | 570.0 |

KMSO:RW12:HLN Criteria Failures and Warnings

| |
|--------------|
| No failures. |
|--------------|

Route Evaluation for KMSO:RW12:LKT

Required Engagement Climb Gradient (ft/NM): -

KMSO:RW12:LKT Evaluation Results Part 1/2

| Leg Tp | End Pt | Turn Tp | Alt Restr | Alt Restr 2 | Spd Restr | Min CG Calc Alt | Turn Ang | Leg Length | Min Seg Length |
|--------|--------|---------|-----------|-------------|-----------|-----------------|----------|------------|----------------|
| VI | | | | | | 4297.42 | 58.52 | 2.29 | 1.05 |
| CF | QIANA | FLY_BY | +7500.00 | | 230.00 | 6921.38 | 17.54 | 6.43 | 2.85 |
| TF | VICTO | FLY_BY | +10400.00 | | | 9342.32 | 10.28 | 12.1 | 4.35 |
| TF | LKT | FLY_BY | | | | 28052.63 | | 93.47 | 2.89 |

VICTO (RNAV)

KMSO:RW12:LKT Evaluation Results Part 2/2

| Leg Tp | End Pt | Turn Tp | DTA1 | DTA1 Turn Rad | DTA1 Turn Alt | DTA1 Turn Spd | DTA1 Bank Ang | DTA1 Tailwind | DTA1 True Airspd | DTA1 vGround | DTA2 | DTA2 Turn Rad | DTA2 Turn Alt | DTA2 Turn Spd | DTA2 Bank Ang | DTA2 Tailwind | DTA2 True Airspd | DTA2 vGround |
|--------|--------|---------|------|---------------|---------------|---------------|---------------|---------------|------------------|--------------|------|---------------|---------------|---------------|---------------|---------------|------------------|--------------|
| VI | | | | | 0.0 | 0.0 | | | | | 1.39 | 2.48 | 4349.55 | 230.0 | 25.0 | 30.0 | 251.85 | 281.85 |
| CF | QIANA | FLY_BY | 1.39 | 2.48 | 4349.55 | 230.0 | 25.0 | 30.0 | 251.85 | 281.85 | 1.46 | 9.45 | 7566.62 | 230.0 | 8.77 | 51.56 | 264.68 | 316.23 |
| TF | VICTO | FLY_BY | 1.46 | 9.45 | 7566.62 | 230.0 | 8.77 | 51.56 | 264.68 | 316.23 | 2.89 | 32.14 | 12533.72 | 300.0 | 5.14 | 71.82 | 373.62 | 445.44 |
| TF | LKT | FLY_BY | 2.89 | 32.14 | 12533.72 | 300.0 | 5.14 | 71.82 | 373.62 | 445.44 | 0.0 | | 41000.0 | 300.0 | 0.0 | 128.18 | 628.54 | 570.0 |

KMSO:RW12:LKT Criteria Failures and Warnings

| |
|--------------|
| No failures. |
|--------------|

Route Evaluation for KMSO:RW12:MLP

Required Engagement Climb Gradient (ft/NM): -

KMSO:RW12:MLP Evaluation Results Part 1/2

| Leg Tp | End Pt | Turn Tp | Alt Restr | Alt Restr 2 | Spd Restr | Min CG Calc Alt | Turn Ang | Leg Length | Min Seg Length |
|--------|--------|---------|-----------|-------------|-----------|-----------------|----------|------------|----------------|
| VI | | | | | | 4297.42 | 58.52 | 2.29 | 1.05 |
| CF | QIANA | FLY_BY | +7500.00 | | 230.00 | 6921.38 | 17.54 | 6.43 | 2.85 |
| TF | VICTO | FLY_BY | +10400.00 | | | 9342.32 | 90.33 | 12.1 | 7.56 |
| TF | GRAAP | FLY_BY | +11500.00 | | | 16509.01 | 70.35 | 35.81 | 26.1 |
| TF | MLP | FLY_BY | | | | 29763.68 | | 66.2 | 20.0 |

KMSO:RW12:MLP Evaluation Results Part 2/2

| Leg Tp | End Pt | Turn Tp | DTA1 | DTA1 Turn Rad | DTA1 Turn Alt | DTA1 Turn Spd | DTA1 Bank Ang | DTA1 Tailwind | DTA1 True Airspd | DTA1 vGround | DTA2 | DTA2 Turn Rad | DTA2 Turn Alt | DTA2 Turn Spd | DTA2 Bank Ang | DTA2 Tailwind | DTA2 True Airspd | DTA2 vGround |
|--------|--------|---------|------|---------------|---------------|---------------|---------------|---------------|------------------|--------------|------|---------------|---------------|---------------|---------------|---------------|------------------|--------------|
| VI | | | | | 0.0 | 0.0 | | | | | 1.39 | 2.48 | 4349.55 | 230.0 | 25.0 | 30.0 | 251.85 | 281.85 |
| CF | QIANA | FLY_BY | 1.39 | 2.48 | 4349.55 | 230.0 | 25.0 | 30.0 | 251.85 | 281.85 | 1.46 | 9.45 | 7566.62 | 230.0 | 8.77 | 51.56 | 264.68 | 316.23 |
| TF | VICTO | FLY_BY | 1.46 | 9.45 | 7566.62 | 230.0 | 8.77 | 51.56 | 264.68 | 316.23 | 6.1 | 6.06 | 12533.72 | 300.0 | 25.49 | 71.82 | 373.62 | 445.44 |
| TF | GRAAP | FLY_BY | 6.1 | 6.06 | 12533.72 | 300.0 | 25.49 | 71.82 | 373.62 | 445.44 | 20.0 | 28.38 | 25078.96 | 300.0 | 8.4 | 96.66 | 462.67 | 536.31 |
| TF | MLP | FLY_BY | 20.0 | 28.38 | 25078.96 | 300.0 | 8.4 | 96.66 | 462.67 | 536.31 | 0.0 | | 41000.0 | 300.0 | 0.0 | 128.18 | 628.54 | 570.0 |

KMSO:RW12:MLP Criteria Failures and Warnings

| |
|--------------|
| No failures. |
|--------------|

Route Evaluation for KMSO:RW12:SKOTT

VICTO (RNAV)

Required Engagement Climb Gradient (ft/NM): -

KMSO:RW12:SKOTT Evaluation Results Part 1/2

| Leg Tp | End Pt | Turn Tp | Alt Restr | Alt Restr 2 | Spd Restr | Min CG Calc Alt | Turn Ang | Leg Length | Min Seg Length |
|--------|--------|---------|-----------|-------------|-----------|-----------------|----------|------------|----------------|
| VI | | | | | | 4297.42 | 58.52 | 2.29 | 1.05 |
| CF | QIANA | FLY_BY | +7500.00 | | 230.00 | 6921.38 | 17.54 | 6.43 | 2.85 |
| TF | VICTO | FLY_BY | +10400.00 | | | 9342.32 | 90.33 | 12.1 | 7.56 |
| TF | GRAAP | FLY_BY | +11500.00 | | | 16509.01 | 70.35 | 35.81 | 26.1 |
| TF | INHAL | FLY_BY | | | | 24556.92 | 63.17 | 40.2 | 40.0 |
| TF | MOHEN | FLY_BY | | | | 32567.85 | 43.42 | 40.0 | 40.0 |
| TF | SKOTT | FLY_BY | | | | 37890.43 | | 26.57 | 20.0 |

KMSO:RW12:SKOTT Evaluation Results Part 2/2

| Leg Tp | End Pt | Turn Tp | DTA1 | DTA1 Turn Rad | DTA1 Turn Alt | DTA1 Turn Spd | DTA1 Bank Ang | DTA1 Tailwind | DTA1 True Airspd | DTA1 vGround | DTA2 | DTA2 Turn Rad | DTA2 Turn Alt | DTA2 Turn Spd | DTA2 Bank Ang | DTA2 Tailwind | DTA2 True Airspd | DTA2 vGround |
|--------|--------|---------|------|---------------|---------------|---------------|---------------|---------------|------------------|--------------|------|---------------|---------------|---------------|---------------|---------------|------------------|--------------|
| VI | | | | | 0.0 | 0.0 | | | | | 1.39 | 2.48 | 4349.55 | 230.0 | 25.0 | 30.0 | 251.85 | 281.85 |
| CF | QIANA | FLY_BY | 1.39 | 2.48 | 4349.55 | 230.0 | 25.0 | 30.0 | 251.85 | 281.85 | 1.46 | 9.45 | 7566.62 | 230.0 | 8.77 | 51.56 | 264.68 | 316.23 |
| TF | VICTO | FLY_BY | 1.46 | 9.45 | 7566.62 | 230.0 | 8.77 | 51.56 | 264.68 | 316.23 | 6.1 | 6.06 | 12533.72 | 300.0 | 25.49 | 71.82 | 373.62 | 445.44 |
| TF | GRAAP | FLY_BY | 6.1 | 6.06 | 12533.72 | 300.0 | 25.49 | 71.82 | 373.62 | 445.44 | 20.0 | 28.38 | 25078.96 | 300.0 | 8.4 | 96.66 | 462.67 | 536.31 |
| TF | INHAL | FLY_BY | 20.0 | 28.38 | 25078.96 | 300.0 | 8.4 | 96.66 | 462.67 | 536.31 | 20.0 | 32.53 | 39170.6 | 300.0 | 8.28 | 124.56 | 605.39 | 570.0 |
| TF | MOHEN | FLY_BY | 20.0 | 32.53 | 39170.6 | 300.0 | 8.28 | 124.56 | 605.39 | 570.0 | 20.0 | 50.23 | 41000.0 | 300.0 | 5.38 | 128.18 | 628.54 | 570.0 |
| TF | SKOTT | FLY_BY | 20.0 | 50.23 | 41000.0 | 300.0 | 5.38 | 128.18 | 628.54 | 570.0 | 0.0 | | 41000.0 | 300.0 | 0.0 | 128.18 | 628.54 | 570.0 |

KMSO:RW12:SKOTT Criteria Failures and Warnings

No failures.

MSA Results

| | |
|--------------------------|---|
| MSA Radius: | 25 |
| Obstacle Required MSA: | 10699 (10700) |
| Center Point: | N46° 54' 58.70",W114° 05' 26.00" (KMSO) |
| Sector Boundaries (deg): | 360-360 |

MSA Controlling Obstacle

| Name | Source | Type | Lat | Lon | Ht (ft) | Ht (ft) AMSL | AC (H/V (ft)) | Eff Ht (ft) AMSL | Min Alt (ft) AMSL |
|---------|--------|-------|-----------------|------------------|---------|--------------|---------------|------------------|-------------------|
| MSA AAO | UD | OTHER | N47° 22' 57.00" | W113° 55' 12.00" | 9699.0 | 0.0 | 9699.0 | 4E (+250/+125) | 9699.0 |

VICTO (RNAV)

Evaluation Input

| | |
|--|--|
| Name: | ADJ FINAL - RS Results 02 VICTO (RNAV) |
| Project: | KMSO RSID VICTO 1 |
| Last Evaluated: | 03-Mar-2023 14:00:58 |
| Evaluated Obstacles?: | true |
| Obstacle Source: | Obstacles in View |
| Converted 9I Accuracies to 4D?: | true |
| Evaluated Terrain?: | false |
| Worst Case Vegetation Height (ft) AGL: | 100 |
| Evaluated Airspace?: | true |
| Maximum Aircraft Category: | D |
| MVA Prior to the IF (ft) MSL: | - |

Airport

| | |
|----------------------------|----------------------------------|
| Name: | KMSO [IFPA r20 03-28-19 TO UNK] |
| Location: | N46° 54' 58.70",W114° 05' 26.00" |
| Elevation (ft): | 3205.6 |
| Magnetic Variation (degs): | 13 (2020) |

AAO Exempt Airports

| Name | Location | Elevation (ft) |
|-----------|----------------------------------|----------------|
| KMSO [UD] | N46° 54' 58.70",W114° 05' 26.00" | 3205.6 |

Runways

| Name | Airport | Location | Elevation (ft) | TDZE (ft) | True Course (degs) | Survey? |
|------|-----------|----------------------------------|----------------|-----------|--------------------|---------|
| RW08 | KMSO [UD] | N46° 54' 57.64",W114° 05' 47.81" | 3199.2 | 3199.5 | 89.3 | PAT |
| RW12 | KMSO [UD] | N46° 55' 29.44",W114° 06' 23.61" | 3192.4 | 3200.2 | 130.4 | PAT |
| RW26 | KMSO [UD] | N46° 54' 58.17",W114° 04' 41.39" | 3204.2 | 3204.2 | 269.3 | PAT |
| RW30 | KMSO [UD] | N46° 54' 28.59",W114° 04' 39.50" | 3205.5 | 3205.6 | 310.5 | PAT |

Criteria Failures and Warnings

| |
|--------------|
| No failures. |
|--------------|

Software Evaluation Failures, Warnings, and Notes

VICTO (RNAV)

CEW3: Note: User Defined Tailwind component was used for fix QIANA.
 No terrain evaluation was performed.
 JUSTIFICATION: JUSTIFICATION: PERFORMED AND REPLACED TRANSITION TERRAIN + AAO OBSTACLES W/AAOS TO CAPTURE CG/CGTA OBSTACLE ALL IN SAME RS
 RW12: Minimum VI segment leg was applied.
 CEW59: The procedure excludes digital terrain evaluation within one or more legacy survey areas that are not included in FAA Order 8260.19.
 Procedure database airport KMSO record magnetic variation of 13.0E (EY 2020) is within 3 degrees of next future epoch year value 13.0E (EY 2025).

Obstacles Requiring Accuracy Code Verification

[16-000344 [IFPA r1], 16-000345 [IFPA r1], 16-000346 [IFPA r1], 16-000347 [IFPA r1], 16-000348 [IFPA r1], 16-000349 [IFPA r1], UDO 24 [UD]]

Ignored Obstacles

None.

Procedure Notes

None.

Database Effective Dates

| Database | Date |
|---------------|------------|
| Tiled IFPA | N/A |
| OEAAA | N/A |
| DOF | 02/23/2023 |
| IFP_OFFLINE | N/A |
| NFDC | 02/23/2023 |
| AVNII_OFFLINE | N/A |
| IFPA | 03/03/2023 |
| CIFP | 02/23/2023 |

Notes: