# TERMINAL PROCEDURES PUBLICATION SYMBOLS

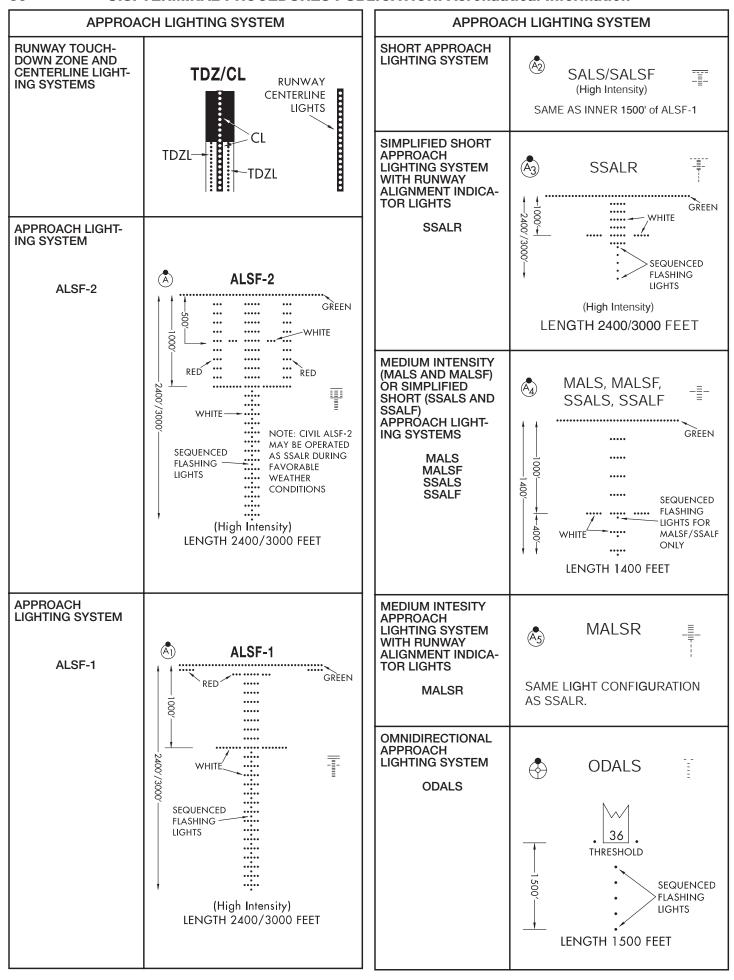
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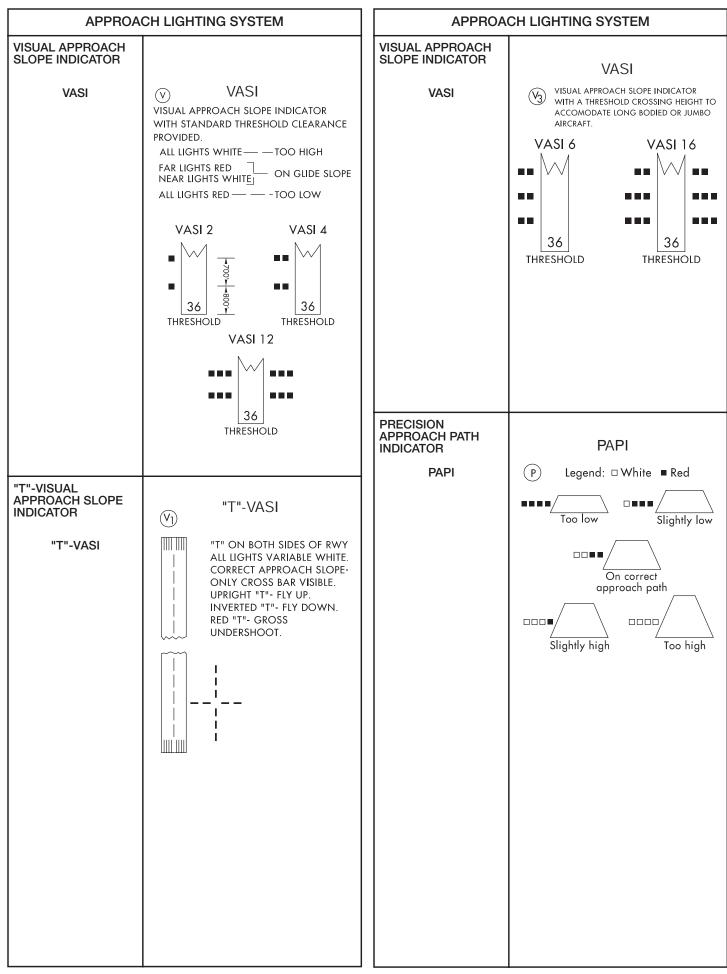
## **GENERAL INFORMATION**

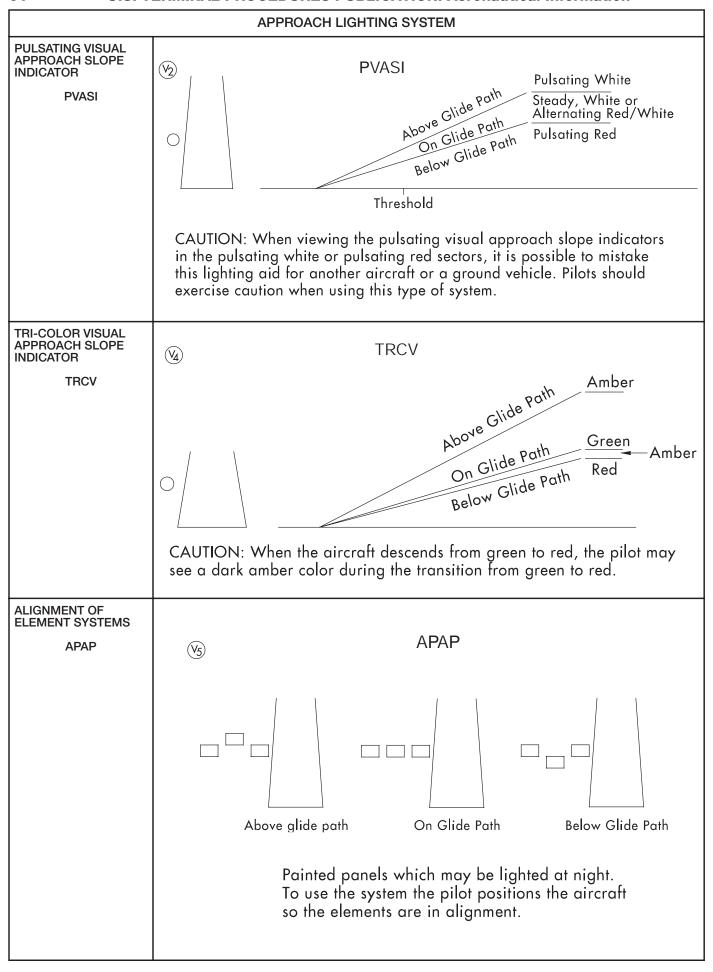
Symbols shown are for the Terminal Procedures Publication (TPP) which includes Standard Terminal Arrival Routes (STARs), Departure Procedures (DPs), Instrument Approach Procedures (IAP) and Airport Diagrams.

### STANDARD TERMINAL ARRIVAL (STAR) CHARTS DEPARTURE PROCEDURE (DP) CHARTS **RADIO AIDS** ∨OR ⟨ TACAN TO NAVIGATION O NDB/DME VOR/DME LOC/DME ♥ VORTAC O LOC 0 NDB (Non-directional Beacon) ≪ ∘ >> LMM, LOM (Compass locator) Marker Beacon \_\_\_\_\_\_ Localizer Course ₹ SDF Course (Y) TACAN must be placed (T) indicates frequency in "Y" mode to receive Identifier distance information protection range ORLANDO 112.25 (T) ORL :=:. Chan 59 (Y) N28°32.56′ - W81°20.10′ Position L-19, H-5 DME or Underline indicates TACAN Enroute Chart Channel no voice transmitted on this frequency Coordinates Waypoint PRAYS -Name N38° 58.30′ W89° 51.50′ -112.7\_CAP 187.1°-56.2 Frequency-- 59,0 -Radial-Distance Identifier Reference Facility (Facility to Elevation Waypoint) LOCALIZER 108.5 I-PZV <u>:---:</u> Chan 22 Localizer Offset LOC offset 3.02° REPORTING Reporting Points N00° 00.00′ POINTS/FIXES **WAYPOINTS** W00° 00.00′ → DME Mileage (when not obvious) ▲ Name (Compulsory) $\triangle$ Name (Non-Compulsory) DMF fix Mileage Breakdown/ Computer Navigation Fix (CNF) N00° 00.00′ W00° 00.00′ X (NAME) ("X" omitted when it conflicts with runway pattern) WAYPOINT (Compulsory) WAYPOINT (Non-Compulsory) $(\triangle)$ FLYOVER POINT MAP WP (Flyover)

### STANDARD TERMINAL ARRIVAL (STAR) CHARTS DEPARTURE PROCEDURE (DP) CHARTS **ROUTES** 4500 MEA-Minimum Enroute Altitude \*3500 MOCA-Minimum Obstruction Clearance Altitude – 270°—— Departure Route - Arrival Route (65) Mileage between Radio Aids, Reporting Points, and Route Breaks >>>> Distance not to scale J80 Airway/Jet Route Identification Holding (IAS) Changeover Point Pattern Holding pattern with max. restricted airspeed (175K) applies to all altitudes (210K) applies to altitudes above 6000' to and including 14000' SPECIAL USE **AIRSPACE** W-Warning R-Restricted R-352 P-Prohibited A-Alert **ALTITUDES** <u>5500</u> <u>2300</u> 4800 2200 Minimum Altitude Maximum Recommended Altitude Altitude Altitude (Cross at) (Cross at (Cross at or below) or above) MCA (Minimum Crossing Altitude) → Altitude change at other than Radio Aids All altitudes/elevations are in feet-MSL. MRA- Minimum Reception Altitude. MAA- Maximum Authorized Altitude **AIRPORTS** STAR Charts → Civil -**©**- Civil-Military Military **DP Charts NOTES** All mileages are nautical. # Indicates control tower temporarily closed UFN. ★ Indicates a non-continuously operating facility, see A/FD or flight supplement. All radials, bearings are magnetic. (NAME2.NAME) - Example of DP flight plan Computer Code. (NAME.NAME2) - Example of STAR flight plan Computer Code. SL-0000 (FAA) - Example of a chart reference number. Alternate Minimums not standard. Civil users refer to tabulation. USA/USN/USAF pilots refer to appropriate regulations. A NA Alternate minimums are Not Authorized due to unmonitored facility or absence of weather reporting service. **▼** Take-off Minimums not standard and/or Departure Procedures are published. Refer to tabulation. WAAS VNAV outages may occur daily due to initial system limitations. WAAS VNAV NOTAM service is not provided for this approach.

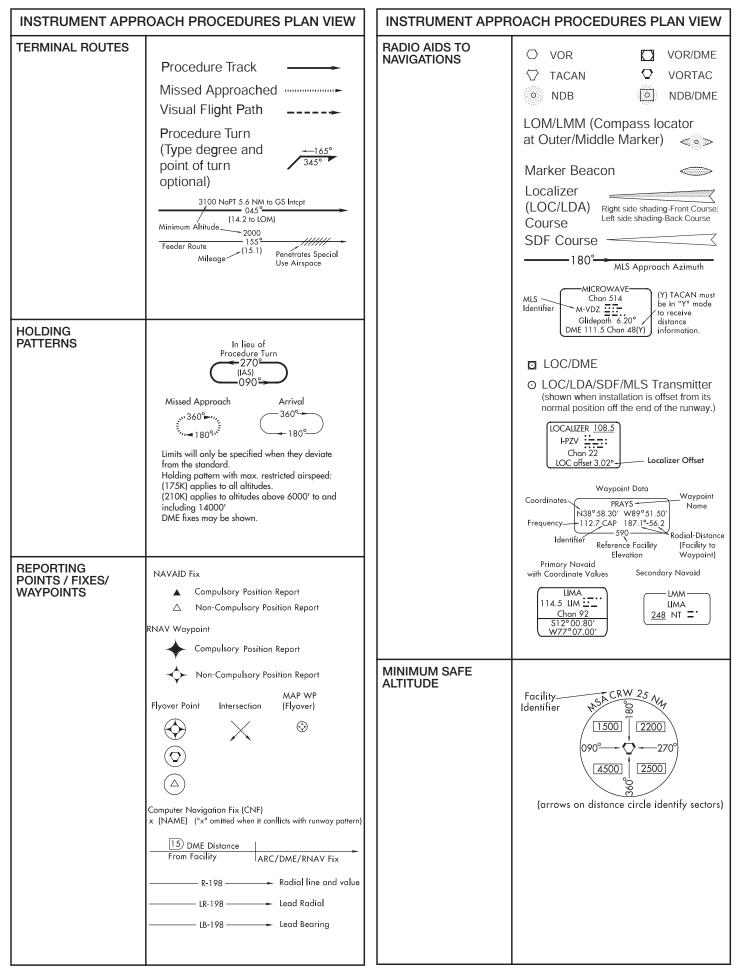


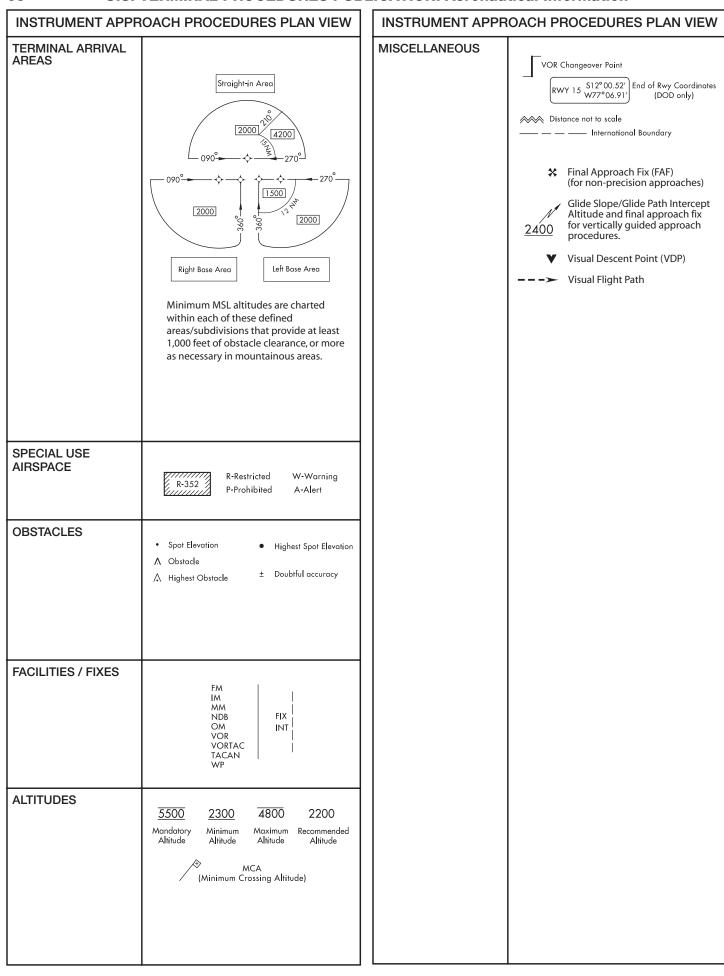




# AIRPORT DIAGRAM/SKETCH AIRPORT DIAGRAM/SKETCH ARRESTING GEAR **NOTES** U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft. uni-directional bi-directional Approach light symbols are shown in the Flight Information Handbook. Jet Barrier ARRESTING GEAR: Specific arresting gear systems; Airport diagram scales are variable. e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications. True/magnetic North orientation may vary from diagram to diagram Coordinate values are shown in 1 or $\frac{1}{2}$ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments. **REFERENCE FEATURES** Buildings Positional accuracy within ±600 feet unless otherwise Tanks noted on the chart. Λ Obstruction NOTE: All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only) Highest Obstruction Airport Beacon ☆ Runway Radar Reflectors Control Tower # # When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR. Helicopter Alighting Areas $\mathbb{H}$ $\mathbb{H}$ $\mathbb{A}$ $\mathbb{H}$ Negative Symbols used to identify Copter Procedures landing point **H H H A H** TDZE 123 Runway TDZ elevation ---0.3% DOWN Runway Slope 0.8% UP ---(shown when runway slope equals or exceeds 0.3%) NOTE: Runway Slope measured to midpoint on runways 8000 feet or longer.

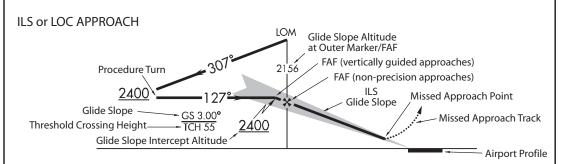
# AIRPORT DIAGRAM/SKETCH **RUNWAYS** Hard Surface ××× Closed Taxiway Other than hard surface Under Construction Stopways, Taxiways, Parking Areas Metal Surface - Displaced Threshold Runway Centerline Lighting Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways. Where a displaced threshold is shown and/or part of the runway is otherwise not available for landing, an annotation is added to indicate the landing length of the runway; e.g., Rwy 13 ldg 5000'. Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression. Refer to the appropriate Supplement/Airport Facility Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325 PCN 80 F/D/X/U **FIELD** Runway Rwy 2 ldg 8000' **ELEV** Slope 174 Displaced Threshold 0.7% UP Runway **I**dentification 9000 X 200 023.2°() 1000 X 200 ELEV Runway End Runway Dimensions Stopway Dimensions 164 Runway Heading Elevation (Magnetic) (in feet) (in feet) SCOPE Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4B.





#### INSTRUMENT APPROACH PROCEDURES PROFILE VIEW

### **PROFILE VIEW**

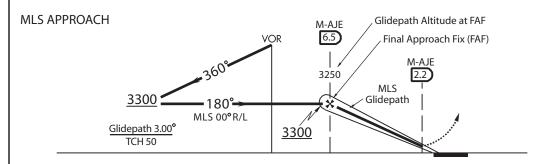


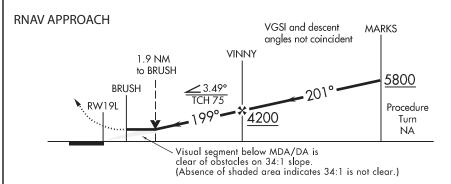
Two different methods are used for vertical guidance:

ILS and LNAV/VNAV use  $\frac{GS~3.00^{\circ}}{ICH~55}$  in the lower left or right corner.

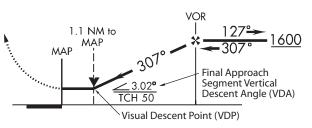
"GS" indicates an electronic glide slope is present in the case of an ILS approach and precision vertical guidance for LNAV/VNAV.

Other charts use  $\frac{3.00^{\circ}}{\text{TCH}.55}$  as a non-precision vertical guidance to avoid controlled flight into terrain. It is placed above or below the procedure track following the fix it is based on.









### DESCENT FROM HOLDING PATTERN

