Material in this packet is not meant to be all - inclusive. Employees are expected to go through training with their employer as well as independent study.

**Suggested Reading:**

- FAA Runway Safety - Vehicle Driver Best Practices
- FAA Airport Sign And Marking – Quick Reference Guide
- AOPA ASI Runway Safety Flash Cards
Markings

Runway Hold Position Marking

Do not cross from the solid line side of this marking unless ATCT has given you permission to cross or proceed onto a runway. This marking is on all taxiways that cross a runway.

ILS Critical Area Marking

This marking represents the boundary of the ILS critical area. Do not cross this marking if instructed to hold short of the ILS critical area by ATCT.

Movement Area Boundary

This marking extends across the surface of every piece of pavement that transitions from a non-movement area to a movement area. Do not cross from the solid line side unless given permission by ATCT to proceed.
Enhanced Taxiway Centerline

The enhanced taxiway centerline extends for 150 feet before reaching the runway hold short marking. You’ll find this marking at all taxiway/runway intersections. It’s another warning that you are approaching a runway.

Remember:

All taxiway markings are yellow and all runway markings are white.
Lights

*Taxiway Edge Light*

Taxiway edge lights are found at the edge of every taxiway. Taxiway edge lights are always blue.

*Runway Edge Light*

Runway edge lights are found at the edge of every runway. Runway edge lights are white, except for the last 2000 feet, where they are an amber color.

*Runway Guard Light*

Runway guard lights are at every runway/taxiway intersection. Do not drive past these lights unless given permission to cross or proceed onto a runway.
Runway Threshold Light

Runway threshold lights are at each end of the runway. Green lights are visible by landing pilots and designate the beginning of pavement available for landing. When viewed from the red side, it tells vehicle operators and pilots that the runway is coming to an end.
Signs

**Taxiway Location Sign**

![Image of a taxiway location sign](image1)

Taxiway location signs are located next to the pavement and advise which taxiway you’re on. A taxiway location sign always has a yellow inscription with a black background.

**Taxiway Direction Sign**

![Image of a taxiway direction sign](image2)

Taxiway direction signs are located next to the pavement and advise in which direction a different taxiway is found.

**Sign Array**

![Image of a sign array](image3)

Sign arrays are located next to the pavement at intersections and consist of both location and direction signs. The array above shows that you are on taxiway A ("Alpha"), and that taxiway C ("Charlie") crosses, while taxiway A continues with a slight right curve ahead.
**ILS Critical Area Sign**

This sign is located next to the pavement at the edge of the ILS Critical Area. Do not proceed past this sign if instructed to hold short of the ILS Critical Area by ATCT.

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**Mandatory Instruction Sign**

This sign is located at every runway/taxiway intersection and runway/runway intersection. Do not cross this sign unless given permission to cross or proceed onto the runway by ATCT.

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**Runway Distance Remaining Sign**

This sign is located next to a runway’s pavement every 1000 feet. It tells how many feet (in thousands) remain. This sign says there are 3000 feet of runway remaining.
# Airport Sign and Marking – Quick Reference Guide

<table>
<thead>
<tr>
<th>EXAMPLE</th>
<th>TYPE OF SIGN</th>
<th>PURPOSE</th>
<th>LOCATION/CONVENTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 - 22</td>
<td>Mandatory: Hold position for taxiway/runway intersection.</td>
<td>Denotes entrance to runway from a taxiway.</td>
<td>Located 1 side of taxiway within 10 feet of hold position markings.</td>
</tr>
<tr>
<td>22 - 4</td>
<td>Mandatory: Holding position for runway/runway intersection.</td>
<td>Denotes intersecting runway.</td>
<td>Located 1 side of rwy prior to intersection, &amp; R side if rwy more than 150’ wide, used as taxiway, or has “land &amp; hold short” ops.</td>
</tr>
<tr>
<td>4 - APCH</td>
<td>Mandatory: Holding position for runway approach area.</td>
<td>Denotes area to be protected for aircraft approaching or departing a runway.</td>
<td>Located on taxiways crossing thru runway approach areas where aircraft would enter an RSA or aprch/departure airspace.</td>
</tr>
<tr>
<td>ILS</td>
<td>Mandatory: Holding position for ILS Critical area/precision obstacle free zone.</td>
<td>Denotes entrance to area to be protected for an ILS signal or approach airspace.</td>
<td>Located on taxiways where the taxiways enter the NAV/ILS critical area or where aircraft on taxiway would violate ILS aprch airspace (including POOFZ).</td>
</tr>
<tr>
<td>B</td>
<td>Mandatory: No entry.</td>
<td>Denotes aircraft entry is prohibited.</td>
<td>Located on paved areas that aircraft should not enter.</td>
</tr>
<tr>
<td>TAXI 22</td>
<td>Taxiway Location.</td>
<td>Identifies taxiway on which the aircraft is located.</td>
<td>Located along taxiway by itself, as part of an array of taxiway direction signs, or combined with a runway/taxiway hold sign.</td>
</tr>
<tr>
<td>RWY 22</td>
<td>Runway Location.</td>
<td>Identifies the runway on which the aircraft is located.</td>
<td>Normally located where the proximity of two runs to one another could cause confusion.</td>
</tr>
<tr>
<td>SAFETY OFZ</td>
<td>Runway Safety Area / OFZ and Runway Approach Boundary.</td>
<td>Identifies exit boundary for an RSA / OFZ or rwy approach.</td>
<td>Located on taxiways on back side of certain runway/taxiway holding position signs or runway approach area signs.</td>
</tr>
<tr>
<td>CRITICAL</td>
<td>ILS Critical Area/POOFZ Boundary.</td>
<td>Identifies ILS critical area exit boundary.</td>
<td>Located on taxiways on back side of ILS critical area signs.</td>
</tr>
<tr>
<td>J L</td>
<td>Direction: Taxiway.</td>
<td>Defines designation/direction of intersecting taxiway(s).</td>
<td>Located on L side, prior to intersection, with an array L to R in clockwise manner.</td>
</tr>
<tr>
<td>22 FBO</td>
<td>Runway Exit.</td>
<td>Defines designation/direction of exit taxiways from the rwy.</td>
<td>Located on same side of runway as exit, prior to exit.</td>
</tr>
<tr>
<td>22</td>
<td>Outbound Destination.</td>
<td>Defines directions to take-off runway(s).</td>
<td>Located on taxi routes to runway(s). Never collocated or combined with other signs.</td>
</tr>
<tr>
<td>22</td>
<td>Inbound Destination.</td>
<td>Defines directions to airport destinations for arriving aircraft.</td>
<td>Located on taxi routes to airport destinations. Never collocated or combined with other types of signs.</td>
</tr>
<tr>
<td>22</td>
<td>Information.</td>
<td>Provides procedural or other specialized information.</td>
<td>Located along taxi routes or aircraft parking/staging areas. May not be lighted.</td>
</tr>
<tr>
<td>22</td>
<td>Taxiway Ending Marker.</td>
<td>Indicates taxiway does not continue beyond intersection.</td>
<td>Installed at taxiway end or far side of intersection, if visual cues are inadequate.</td>
</tr>
<tr>
<td>DIST</td>
<td>Distance Remaining.</td>
<td>Distance remaining into for take-off/landing.</td>
<td>Located along the sides of runways at 1000’ increments.</td>
</tr>
</tbody>
</table>

**Ref:** AC 150/5340-1J Standards for Airport Markings, and AC 150/5340-1BD Standards for Airport Signs Systems

*Federal Aviation Administration*
• You are required to know the airfield layout in order to receive Movement Area driving privileges.
• Runways are always designated by a number or a number followed by a letter. Examples are Runway 18, or Runway 27L.
• Taxiways are always designated by a letter or a letter followed by a number. Examples are taxiway N, or taxiway A5.
• There are only 2 ILS Critical Areas at SBN. One is just before taxiway B1 and the other is just before taxiway A6.
Helpful tips for learning the layout:

- Taxiway N goes north/south.
- Taxiway A goes east/west past the Atlantic ramp.
- Taxiway B goes east/west past the terminal, where baggage is handled.
- Taxiways A & B each have 6 stub taxiways (smaller taxiways that go from the main taxiway to the runway). They’re numbered 1 to 6, from east to west.
- Taxilane T goes to the T hangars.
Communications

- SBN’s air traffic control tower (ATCT) operates Sunday through Friday from **5:30am** to **12:00am**. Saturday hours are **5:30am** to **11:45pm**.
- You will primarily communicate with the ATCT on Ground Control. Ground Control Frequency is **121.7**.
- Tower Frequency is **118.9**.
- When the ATCT is closed, all vehicles are to make position announcements on the Common Traffic Advisory Frequency (CTAF), **118.9**.
- When the ATCT is closed, airfield lights are set to pilot controlled lighting. Pilot controlled lighting can also be controlled from your vehicle. When on the CTAF, key your microphone 3 times for low lighting, 5 times for medium lighting, and 7 times for high lighting. Intensities will change runway lights, but not for taxiway lights.

**Phonetic Alphabet**

<table>
<thead>
<tr>
<th>Alpha</th>
<th>Bravo</th>
<th>Charlie</th>
<th>Delta</th>
<th>Echo</th>
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</thead>
<tbody>
<tr>
<td>Foxtrot</td>
<td>Golf</td>
<td>Hotel</td>
<td>India</td>
<td>Juliet</td>
</tr>
<tr>
<td>Kilo</td>
<td>Lima</td>
<td>Mike</td>
<td>November</td>
<td>Oscar</td>
</tr>
<tr>
<td>Papa</td>
<td>Quebec</td>
<td>Romeo</td>
<td>Sierra</td>
<td>Tango</td>
</tr>
<tr>
<td>Uniform</td>
<td>Victor</td>
<td>Whiskey</td>
<td>X-Ray</td>
<td>Yankee</td>
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</tbody>
</table>
Quiz Yourself

1. According to the picture above, where is the driver and what specific surface is directly ahead?

2. Does the photo above show a taxiway or a runway?
3. Does the photo above show a taxiway or a runway?

4. What should a driver do before driving from the left side of the photo to the right side?

5. If you are driving on a surface that has white or amber colored lights on both edges, what type of surface are you on?
Quiz Answers

1. The driver is on taxiway B5 and runway 9R – 27L is directly ahead.
2. This is a taxiway. Recall taxiway markings are yellow in color.
3. This is a runway. Recall runway markings are white in color.
4. The driver should contact ground control and request permission to proceed to a location on the movement area.
5. You are driving on a runway. Runway edge lights are always either white or amber, and no other surface will have those edge lights.