Runway Labels

Runway Labels

Runway numerals (or labels) are used to uniquely identify runways at airports

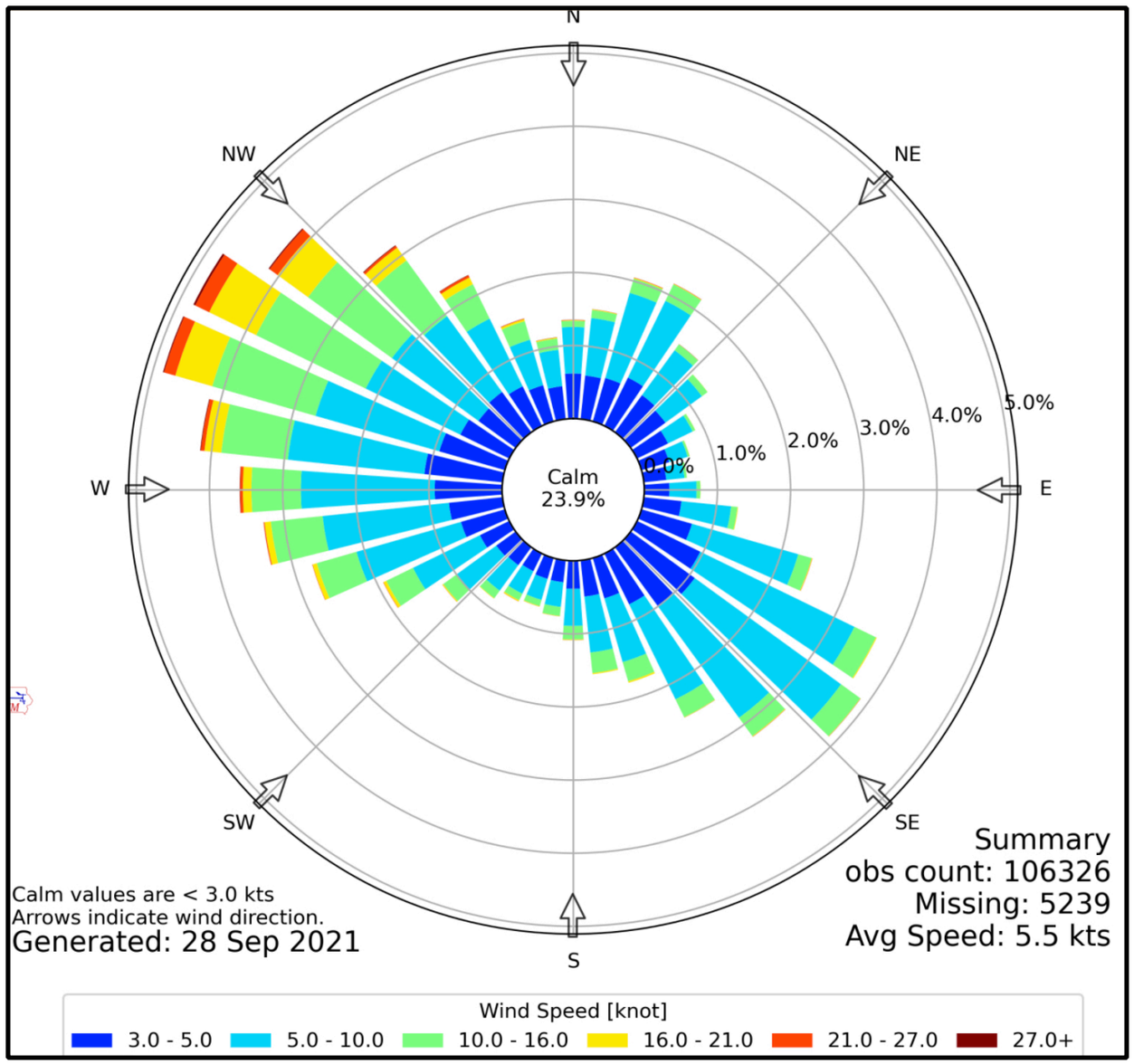
- Runway labels are assigned based on runway magnetic heading (divided by 10)
- Example: Roanoke Regional Airport runway 16-34

Runway 16/34

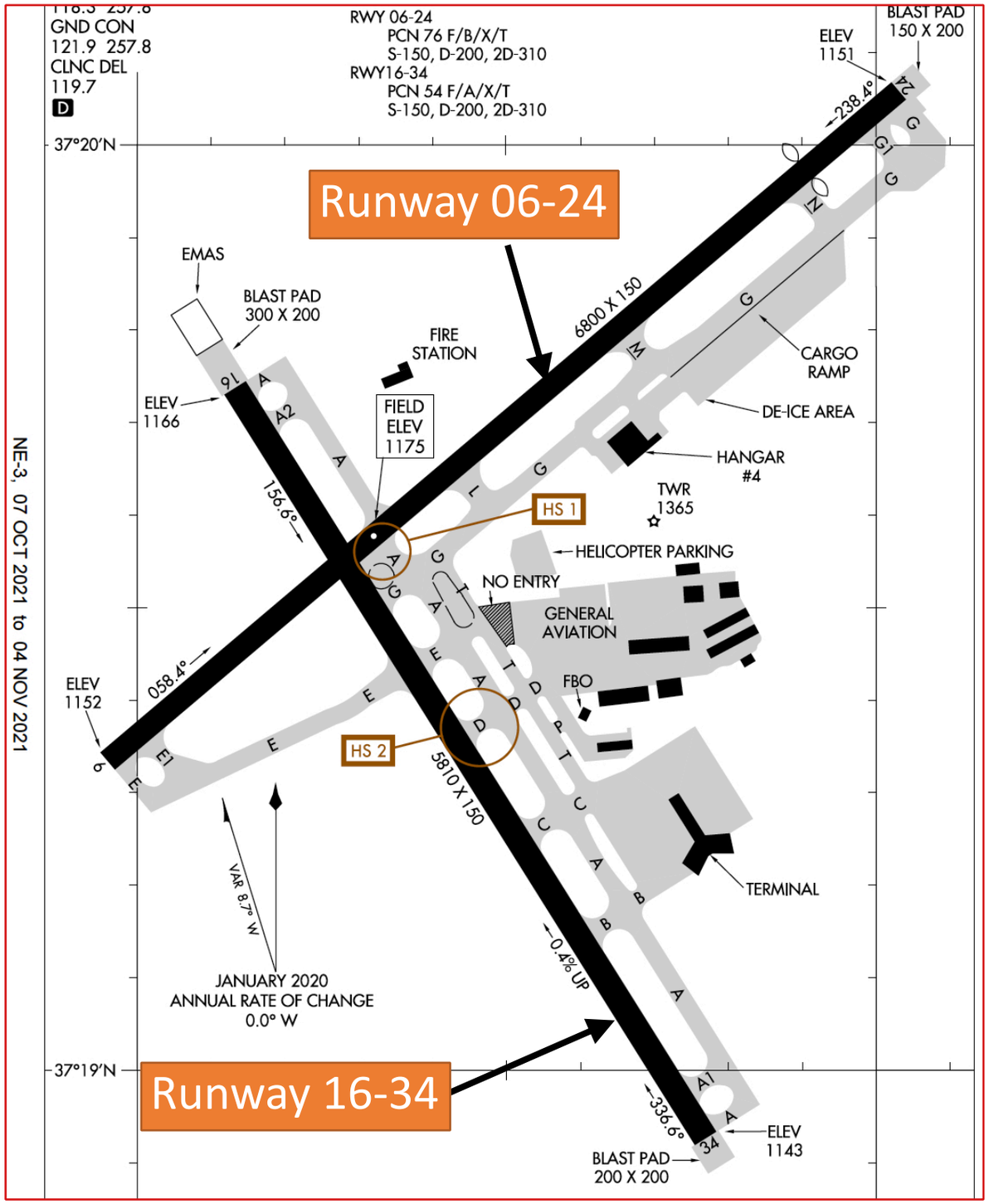
Source: arnav.com

Dimensions:	5810 x 150 ft. / 1771 x 46 m	
Surface:	asphalt/grooved, in good condition	
Weight bearing capacity:	PCN 54 /F/A/X/T	
	Single wheel: 150.0	
	Double wheel: 200.0	
	Double tandem: 310.0	
Runway edge lights:	high intensity	
	RUNWAY 16	**RUNWAY 34**
Latitude:	37-19.737388N	37-18.926242N
Longitude:	079-58.867565W	079-58.230953W
Elevation:	1165.6 ft.	1142.9 ft.
Traffic pattern:	left	left
Runway heading:	156 magnetic, 148 true	336 magnetic, 328 true
Declared distances:	TORA:5810 TODA:5810 ASDA:5810 LDA:5810	TORA:5810 TODA:5810 ASDA:5810 LDA:5810

Roanoke (ROA) Regional



Wind Rose using the Iowa State Mesonet data



ROA Regional Airport Example

- Runway 16 has a magnetic heading of 156 degrees
- Runway 16 has a 148 deg. true heading
- ROA has a magnetic variation of 8 degrees West (+)

Runway 16/34

Source: airnav.com

Dimensions: 5810 x 150 ft. / 1771 x 46 m
Surface: asphalt/grooved, in good condition
Weight bearing capacity: PCN 54 /F/A/X/T
Single wheel: 150.0
Double wheel: 200.0
Double tandem: 310.0
Runway edge lights: high intensity

	RUNWAY 16	**RUNWAY 34**
Latitude:	37-19.737388N	37-18.926242N
Longitude:	079-58.867565W	079-58.230953W
Elevation:	1165.6 ft.	1142.9 ft.
Traffic pattern:	left	left
Runway heading:	156 magnetic, 148 true	336 magnetic, 328 true
Declared distances:	TORA:5810 TODA:5810 ASDA:5810 LDA:5810	TORA:5810 TODA:5810 ASDA:5810 LDA:5810

Runway Labels Change with Time

- Runway 13-31 at Virginia Tech Montgomery Executive Airport changed in 2020
- Old runway designation was 12-30

Source: airnav.com

FAA Identifier: BCB
Lat/Long: 37-12-33.7920N 080-24-43.5240W
37-12.563200N 080-24.725400W
37.2093867,-80.4120900
(estimated)
Elevation: 2119.5 ft. / 646.0 m (surveyed)
Variation: 08W (2020)
From city: 3 miles S of BLACKSBURG, VA
Time zone: UTC -4 (UTC -5 during Standard Time)
Zip code: 24060

Runway 12 at BCB until July 2020

Runway 13/31

Runway 13 data for BCB as of July 2021

Dimensions: 5501 x 100 ft. / 1677 x 30 m
Surface: asphalt/grooved, in fair condition
Runway edge lights: medium intensity
Runway edge markings: NSTD TAXIWAY IN-LINE WITH RWY. WHITE IS END OF RWY.

RUNWAY 13

Latitude: 37-12.770175N
Longitude: 080-25.229450W
Elevation: 2119.2 ft.
Traffic pattern: left
Runway heading: 125 magnetic, 117 true
Markings: nonprecision, in good condition

The magnetic variation changed from 7 W to 8 W
Old magnetic heading - 124 degrees

Parallel Runways

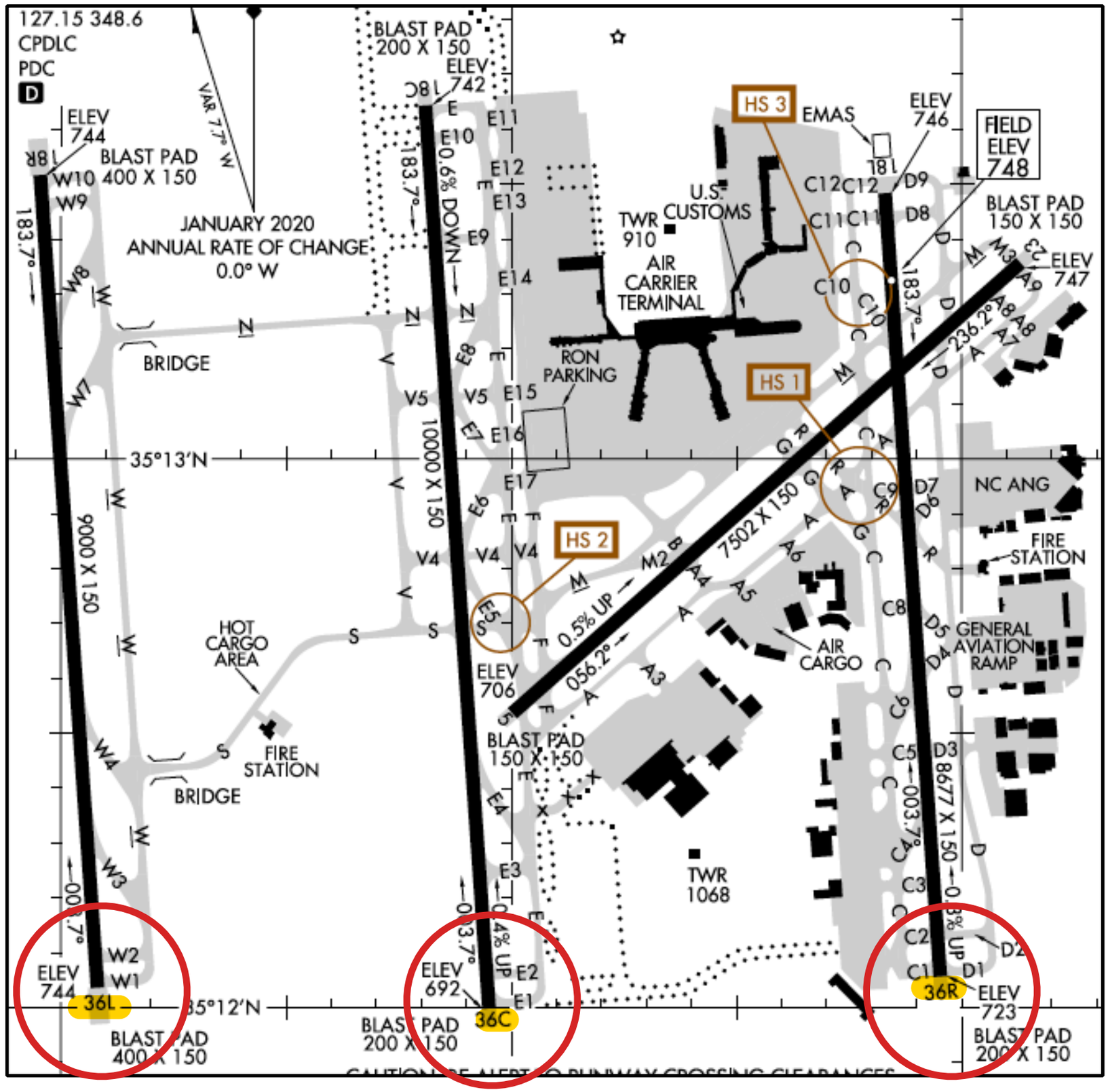
Two parallel runways

- Use Right and Left designations
- Example: 18R and 18L

Three runways

- Ideally, use Right, Left and Center designators
- Example: 18R, 18C and 18L (like Charlotte, NC)
- Variation with two close parallels labeled equally, third runway adopts a heading 10 degrees apart (like Phoenix, AZ)

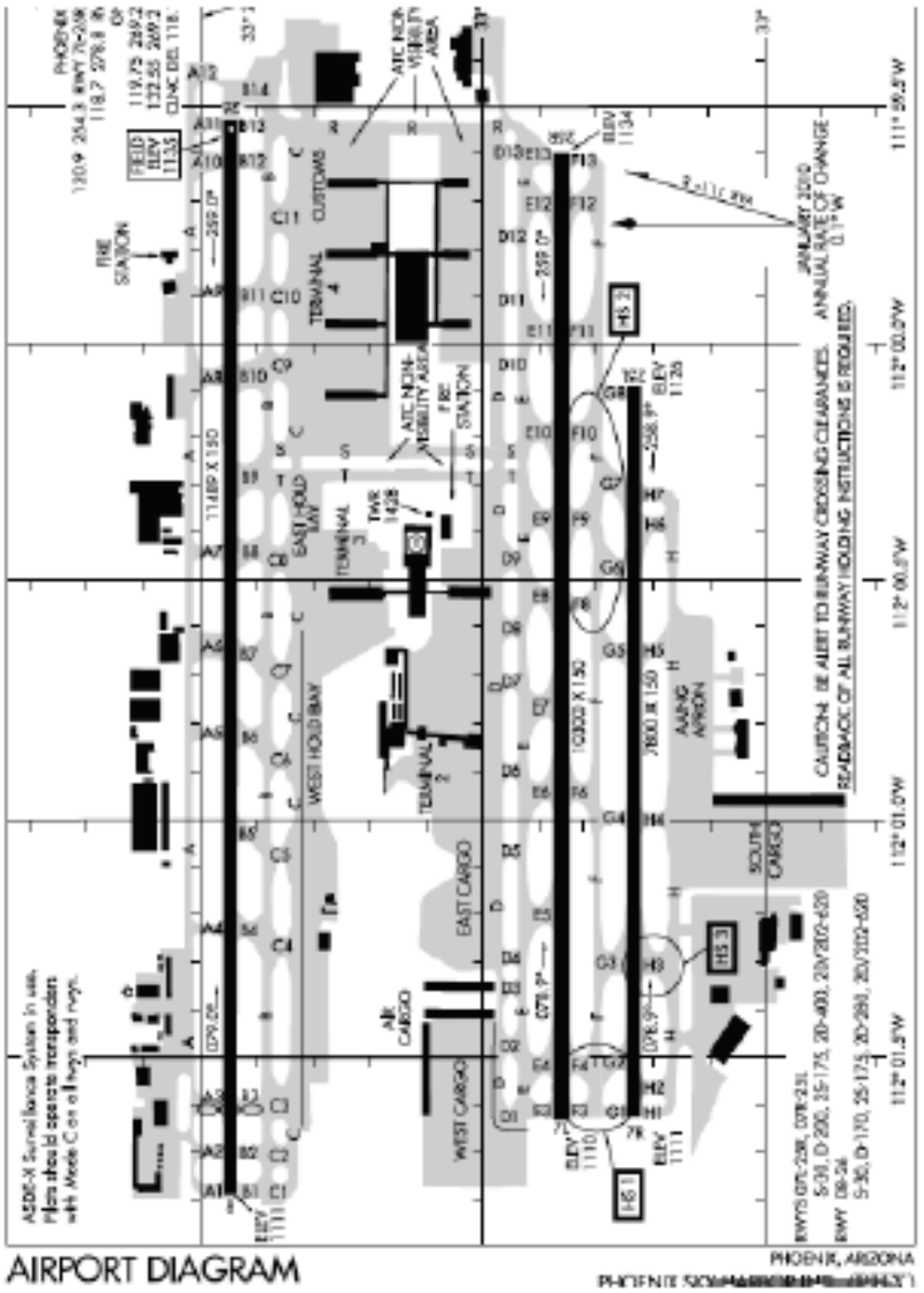
Example: Charlotte Douglas Airport (CLT) (Charlotte, North Carolina)



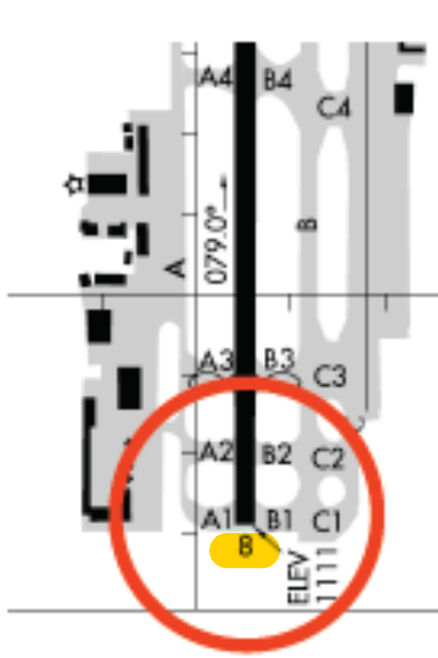
Example: Charlotte Douglas Airport (CLT) (North Carolina)

Source: Google Earth

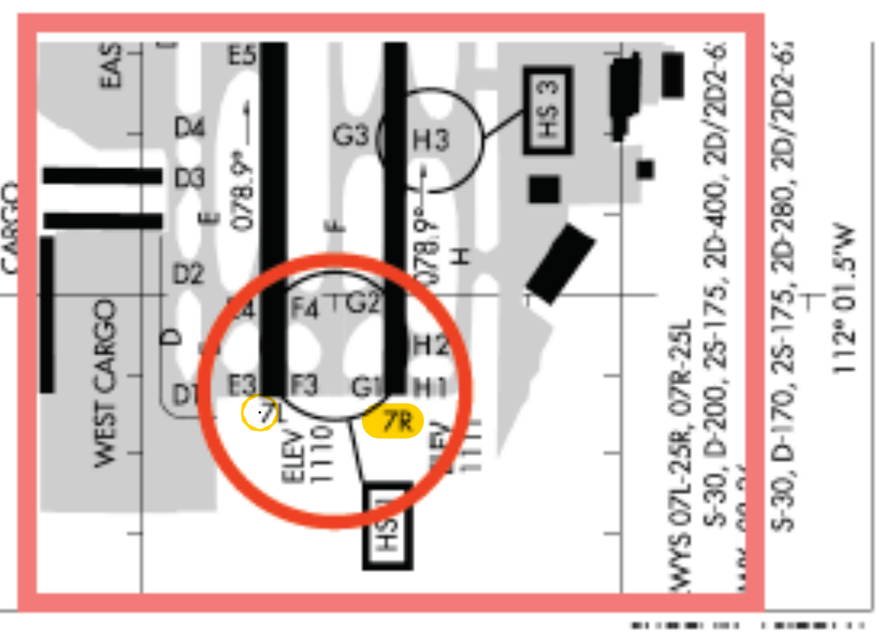
Example: Phoenix Airport (Phoenix, Arizona)



View of the West Section of the airport

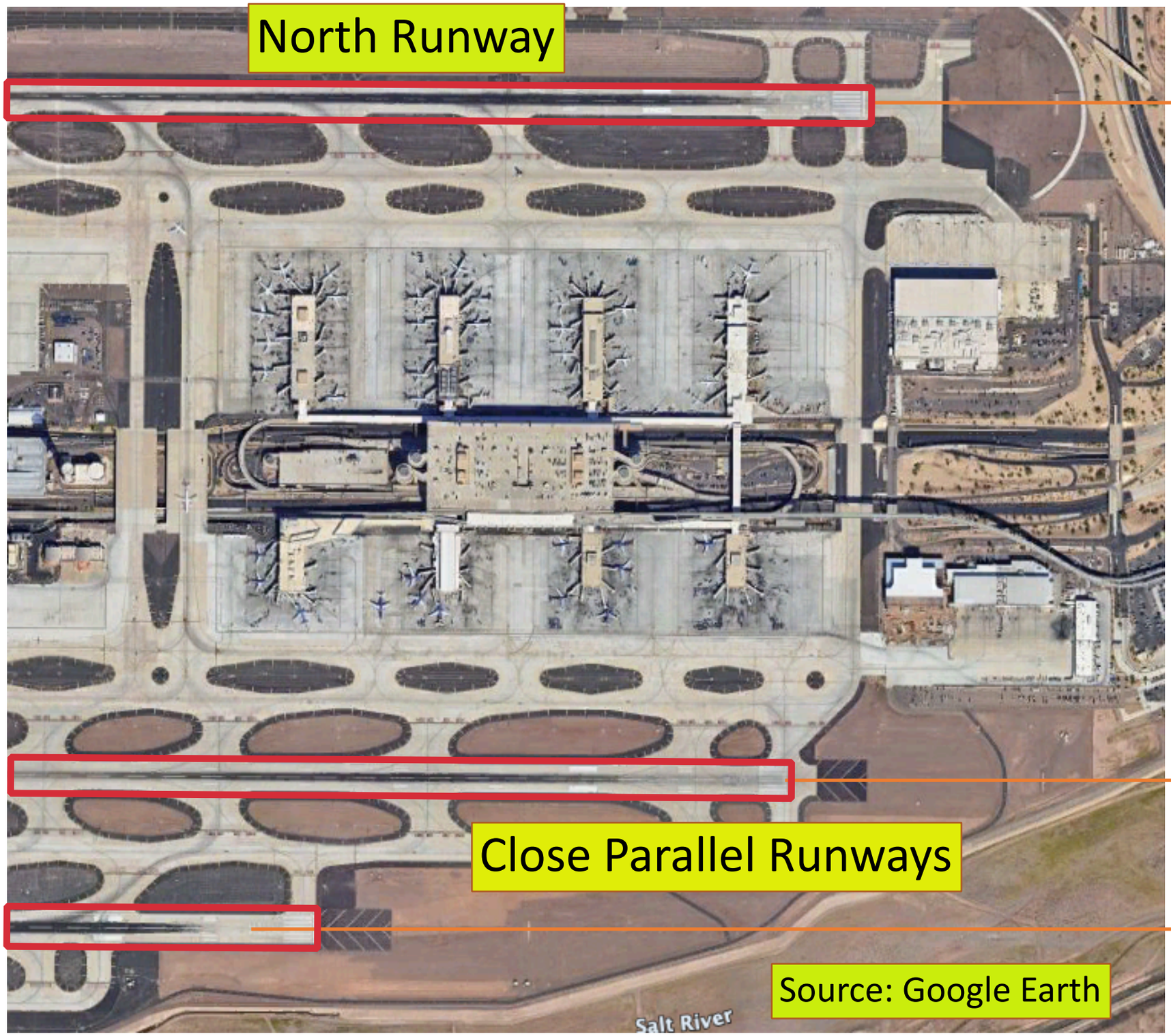


Runway 8



Runways 7L and 7R

Example: Phoenix Airport (Phoenix, Arizona)



3,600 ft (1100 m)

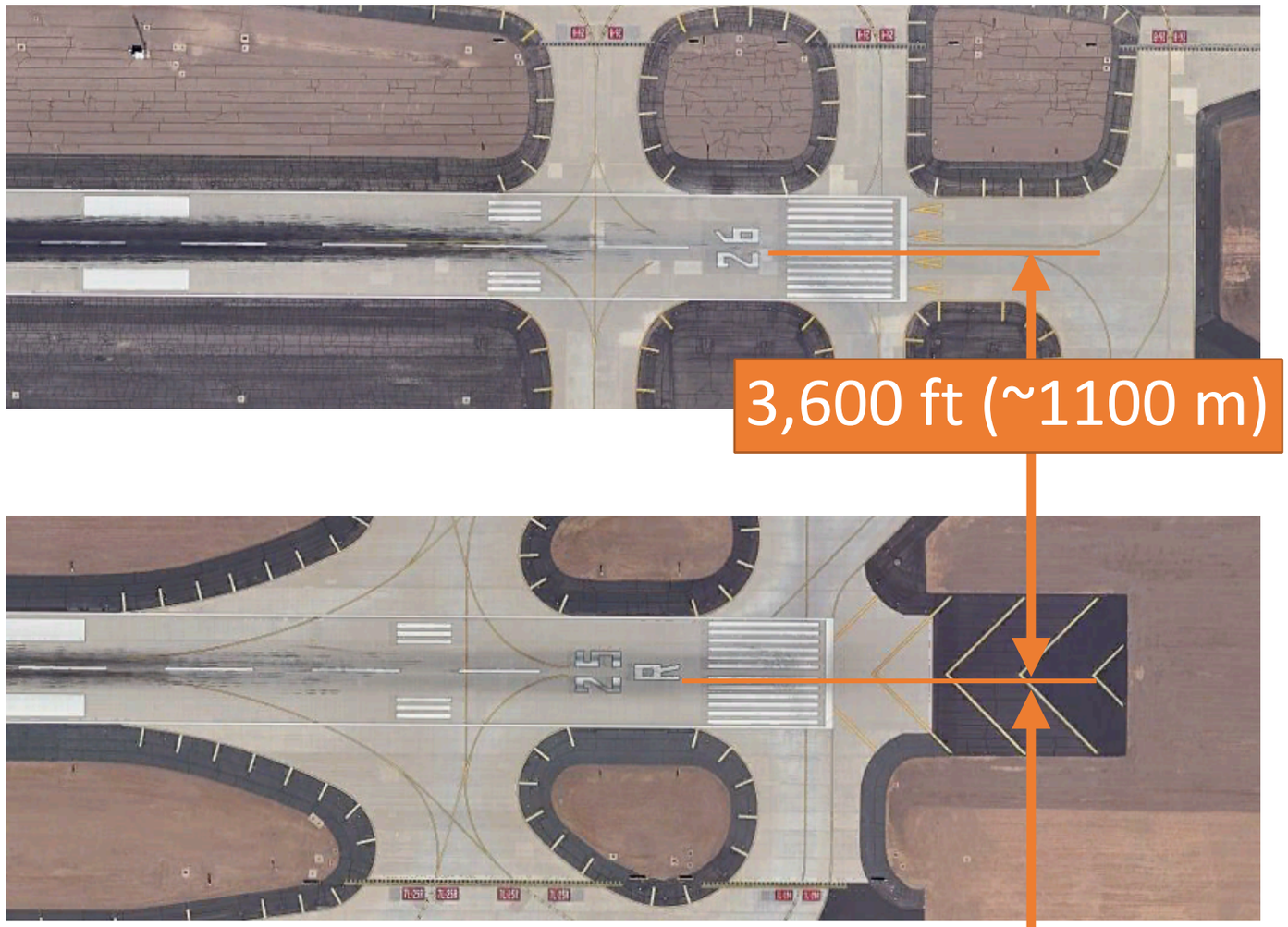
800 ft (244 m)

Source: Google Earth

Example: Phoenix Airport (Phoenix, Arizona)

North Runway

All runways have the same runway heading (78/258 deg. magnetic)



Close Parallel Runways

Source: Google Earth

Parallel Runways (4 or More)

Four parallel runways

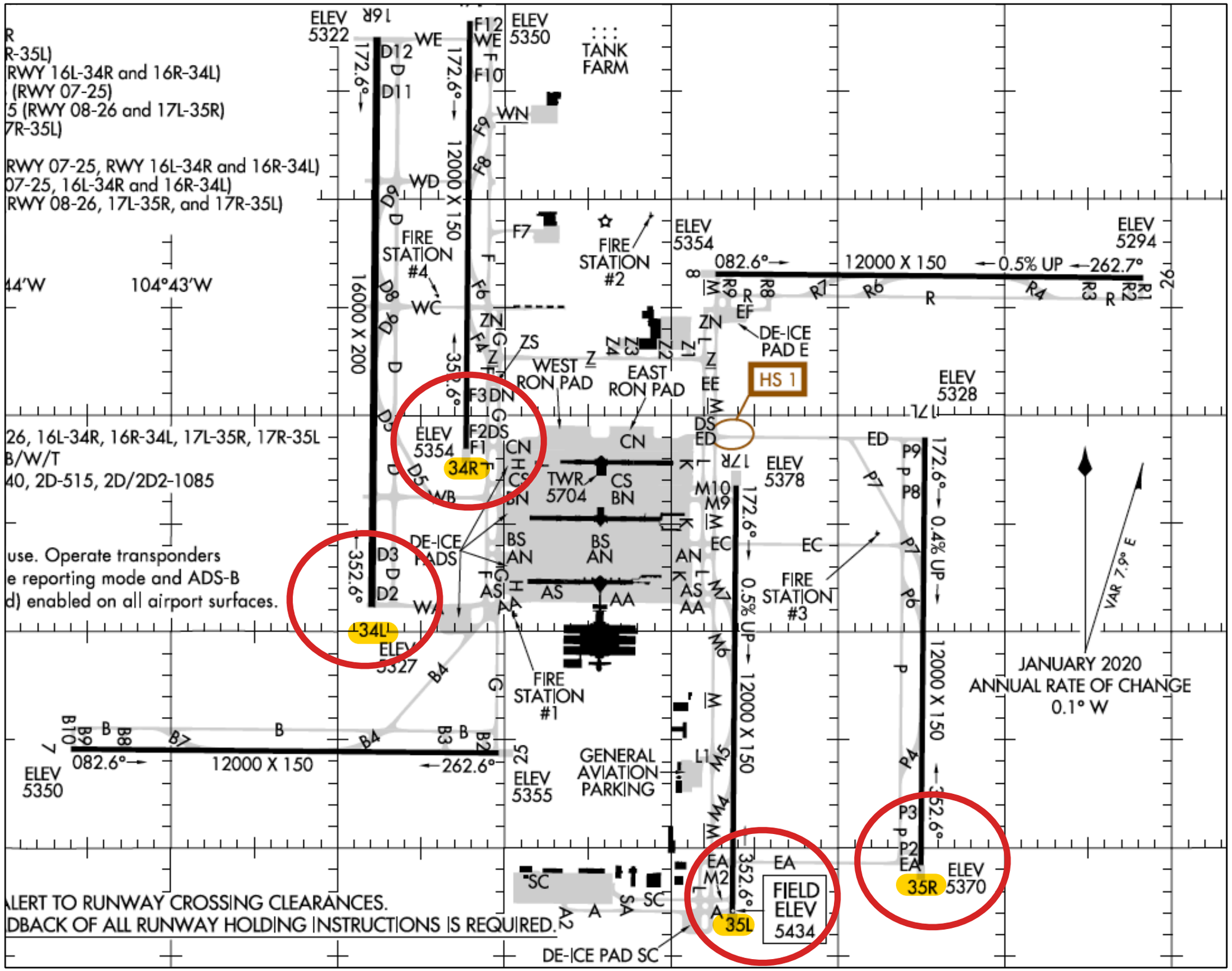
- Use Right and Left designations for each close parallel set
- Differentiate each pair using designators separated by 10 degrees
- Example: 08R and 08L and 09R and 09L (like Denver, CO)

For five runways - use the four runway rule + a new designator for the 5th runway (like Atlanta)

Example: Denver Airport

Runways 34L and 34R

Runways 35L and 35R



Example: Atlanta Airport

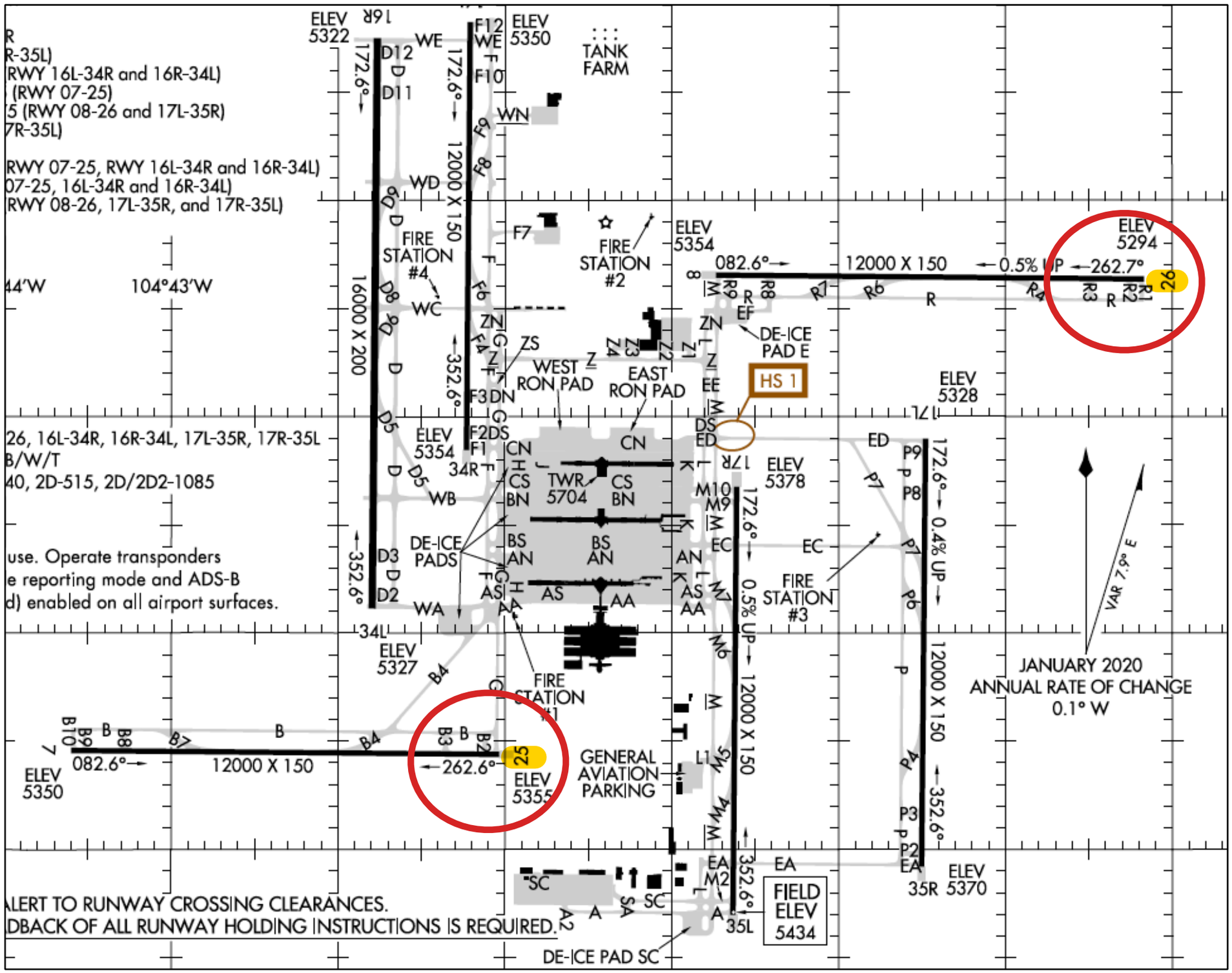
Runways 08L and 08R

Runways 09L and 09R

Runway 10

All runways have similar headings

Example: Denver Airport (Two Far Away Parallel Runways)



Example: Denver Airport (Parallel Far Away Runways)