

# Integration of Transit Systems at Seattle-Tacoma International Airport

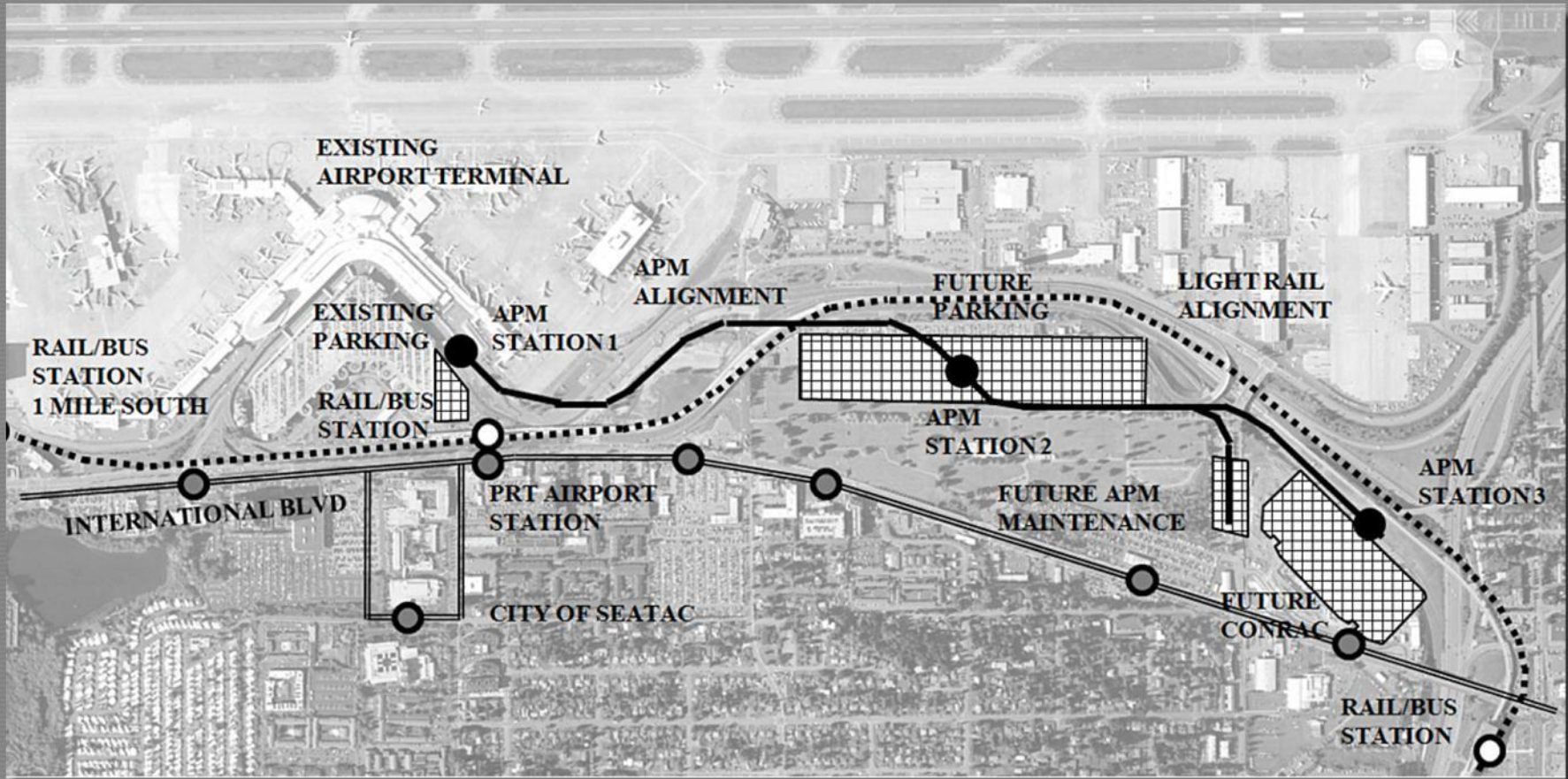
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# Aerial View of Seattle-Tacoma International Airport



# Transit System Alignments at SeaTac



# APM System Facility Requirements

<b>APM System Elements</b>	<b>Requirements</b>
Elevated guideway construction	Concrete (cast-in-place or precast)
Elevated guideway column spacing	80 to 120 feet
Elevated guideway depth	$L/25$ (span length divided by 25)
Elevated guideway width	10 feet per lane
Vehicle dynamic envelope height	15 feet
Minimum turning radius	100 to 150 feet
Maximum guideway grade	5 to 10%
Station platform length	50 feet per car (typically 2 to 4 cars per train)
Station width	30 to 40 feet

# Light Rail System Facility Requirements

Light Rail System Elements	Requirement
Elevated guideway construction	Concrete (cast-in-place or precast)
Elevated guideway column spacing	100 to 150 feet
Elevated guideway depth	$L/20$ (span length divided by 20)
Elevated guideway width	12 feet per lane
Vehicle dynamic envelope height	15 feet
Minimum turning radius	500 feet
Maximum guideway grade	5%
Station platform length	100 feet per car (typically 4 cars per train)
Station width	30 to 40 feet

# PRT System Facility Requirements

<b>PRT System Facility Elements</b>	<b>Requirements</b>
Elevated guideway construction	Steel or concrete
Elevated guideway column spacing	60 to 100 feet
Elevated guideway depth	L/30 (span length divided by 30)
Elevated guideway width	6 feet per lane
Vehicle dynamic envelope height	8 feet
Minimum turning radius	50 feet
Maximum guideway rise	10%
Station platform length	15 feet per car (based on demand)
Station width	10 to 15 feet

# Light Rail Airport Station



# Transit System Alignments at SeaTac

