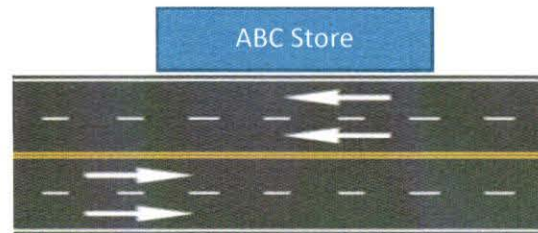


Proportionate Share Calculation Example

Proposed ABC Store on an Existing 4-Lane Road



Existing Capacity = 2,000 vehicles per hour

Existing Volume = 1,900 vehicles per hour (under capacity)

ABC Store Generates = 300 vehicles per hour

Roadway volume with ABC Store Traffic = 1,900 + 300 = 2,200 vehicles per hour (**over capacity**)

That means the existing 4-Lane roadway will fail. Road needs to be widened to 6-Lanes

Improved roadway (6-Lane) Capacity = 3000 vehicles per hour

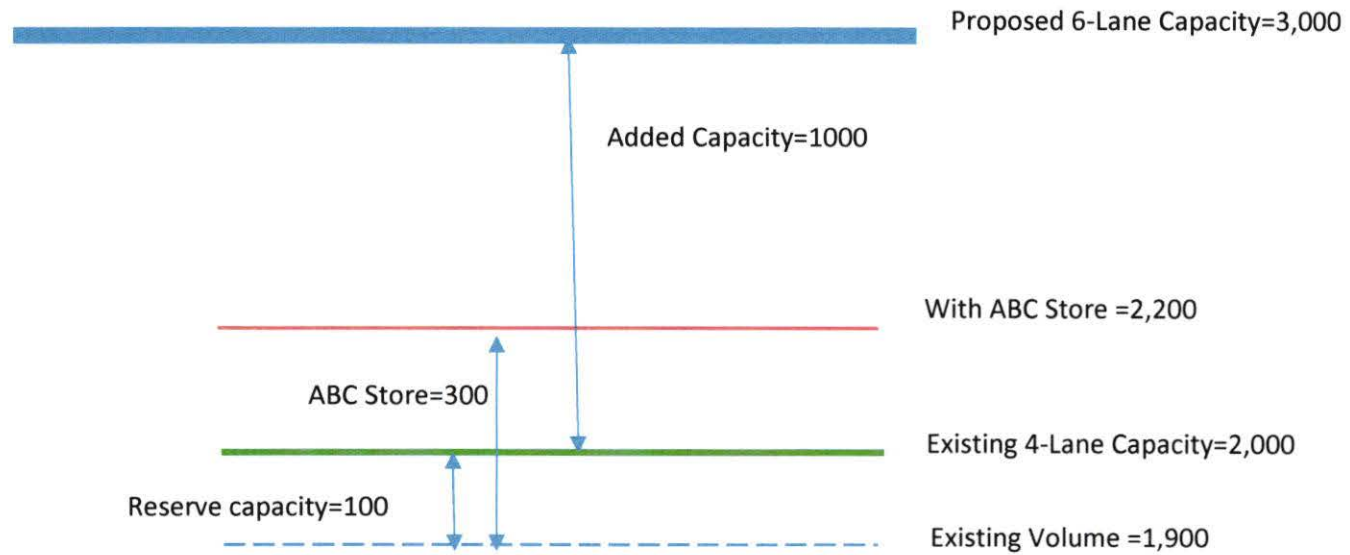
Capacity created = 3000 – 2000 = 1000 vehicles per hour

Of this additional capacity, ABC Store will be using only 200 (note that out of a trip generation of 300 vehicles, the first 100 trips could be accommodated on the existing roadway before the roadway is over capacity)

So, the Prop Share for ABC Store is =
$$\frac{\text{Project's Trip Contribution}}{\text{Capacity Created from Improvement}}$$

$$= \frac{200}{1000}$$

= 20% of total cost of widening from 4 lanes to 6 lanes



Baseline

$$\text{Prop Share} = (2,200 - 2,000) / (3,000 - 2,000) = 20\%$$