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Road Curve Constraints

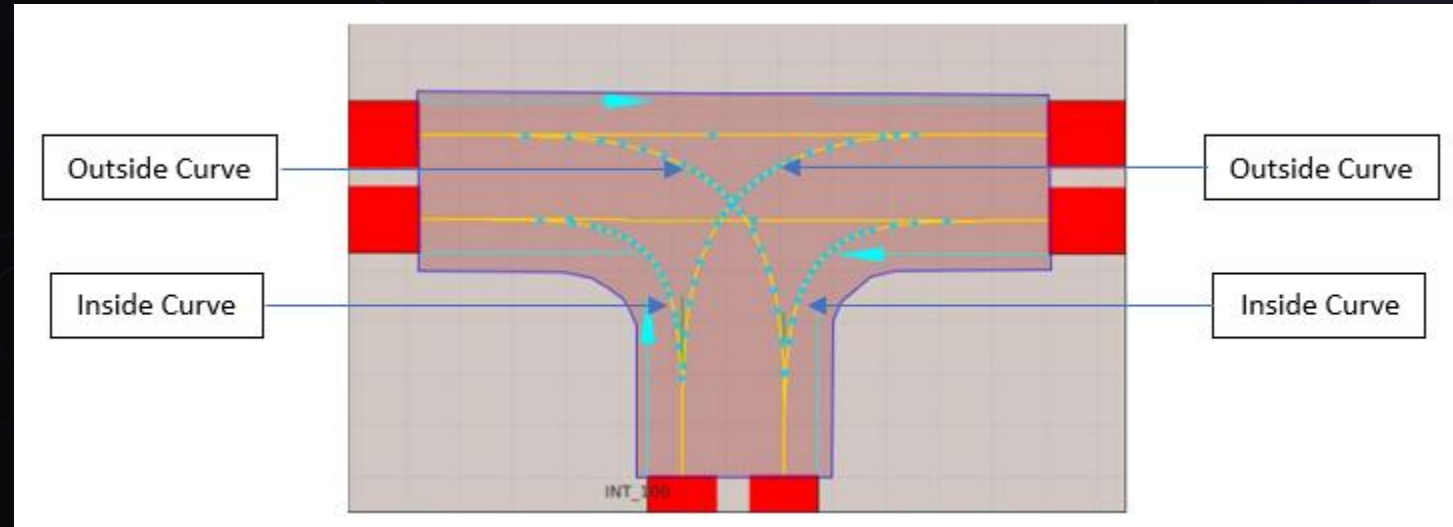
ROAD CURVE CONSTRAINTS

- + Road curves must remain within intersection boundaries
- + Road curves must remain at least 6.92m from edges of intersections. The edge of a truck must be a minimum distance of 2.4m from the edge of an intersection for safety reasons and 4.52m is half the width of a truck. Trucks will automatically drive such that the middle of the truck runs along the road curve
- + Start and end points of road curves must align with roads immediately adjacent to the boundaries of an intersection, such that trucks maintain smooth travel upon entering and exiting an intersection
- + Speed of trucks is controlled by the autonomous truck operating system and will be determined based on the path of the road provided. Truck speed cannot be changed directly.
- + Road curves should not create one way intersections where enough space is available to avoid a one way intersection. A truck travelling along an inside road curve and a truck travelling along an outside road curve must maintain a distance of at least 6.9m from each other along all points on the road curves to avoid creating a one way intersection. Since trucks automatically drive such that the middle of the truck runs along the road curve, accounting for half of the width of each truck (4.52m) results in a required distance of 15.94m apart between all points on the inside and outside road curves.

(See Figure 1)

Road Curve Constraints: Figure 1

ROAD CURVE CONSTRAINTS



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