



NOTES:

1. THE SWEEP PATH ANALYSIS USES THE ASHTO 2011 "PASSENGER CAR".
2. FOR MORE INFORMATION ON THE DESIGN VEHICLE STANDARDS, PLEASE REFERENCE THE STEAMBOAT SPRINGS ENGINEERING STANDARDS, SECTION 4.3.1.
3. 'SWEEP PATH ANALYSIS' (SPA): THE CALCULATION AND ANALYSIS OF THE MOVEMENT AND PATH OF DIFFERENT PARTS OF A VEHICLE WHEN THAT VEHICLE IS UNDERTAKING A TURNING MANEUVER. THIS INCLUDES CALCULATING THE PATH TAKEN BY EACH WHEEL DURING A TURN AS WELL AS THE SPACE NEEDED BY THE VEHICLE BODY.

THERE ARE PRACTICAL LIMITATIONS TO THIS ANALYSIS INCLUDING: DRIVER ABILITIES, ENVIRONMENTAL CONDITIONS, VARIABLE PARKING SPACE USAGE AND EFFICIENCIES, SPEED, AND VEHICLE CHARACTERISTICS. THIS IS AN INDUSTRY STANDARD EXERCISE THAT APPLIES VEHICLE GEOMETRIES ALONG WITH EMPIRICAL DATA TO REPLICATE A PARTICULAR CLASS OF VEHICLES (DESIGN VEHICLE).

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