



# VEHICLE DYNAMICS

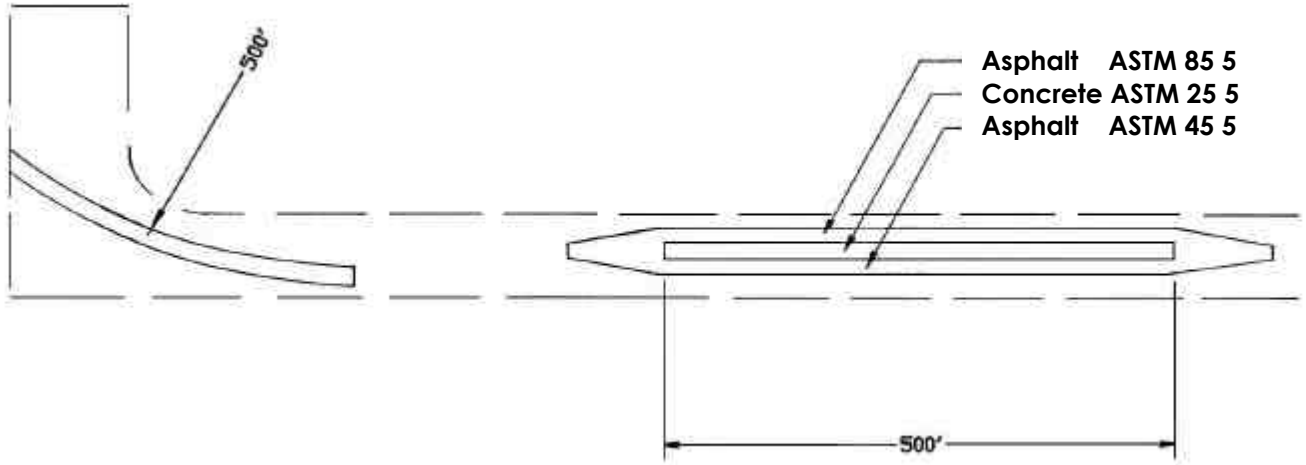
# FACILITIES

Nevada Automotive Test Center, recognized internationally as a leader in tire and vehicle dynamics testing, is ever expanding, with new test courses and greater testing capabilities. NATC has comprehensive vehicle dynamics testing areas with skid pads, lane change maneuver areas, 200 and 500 foot radius curves and low coefficient surfaces including gravel and off camber S curves.

NATC's skid pad has a 200-foot constant-radius paved circle for use in steady-state cornering evaluations and a section of 12-foot wide, 500-foot-radius curve to be used in ABS brake system certification under California Title 21 and the revised FMVSS-121 requirements (see diagram on the following page). These areas augment the recently completed three-lane skid pad and add significantly to NATC's vehicle dynamics evaluation resources.



The skid pad includes a range of surface coefficients and provides areas for split-coefficient operation of vehicles, as well as for high-speed braking tests and handling evaluations. The primary test surfaces, prepared in accordance with AASHO and ASTM specifications, include provisions for either wet or dry use and range from wet smooth concrete (SN 25  $\pm$ 5 wet) to dry asphalt for braking tests (SN 85  $\pm$ 5). In addition to tire testing, the new facility will be utilized for all types of vehicle dynamics testing, ABS and traction control system evaluations, and driver training.



Other types of courses are available for suspension dynamics evaluations and include waves, pot holes, chatter bumps and curbing. NATC routinely constructs specialized test courses to satisfy unique customer requirements.



NATC, Providing "One Stop" Testing Solutions in the Real World



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