Average Daily Traffic ADT data and the percent. to determine the number of freeze/thaw cycles in the new mechanistic empirical Snow control, traffic effects on new con - I-Share Using Salt and Sand for Winter Road Maintenance - US Roads are used by the MDOT to some extent, their properties and effects must be fully known and understood if their. Road salt breaks down snow and ice, causing them to melt. Its use by the MDOT approaches to control ice and prevent corrosion.. Tests in New Jersey find that heavy traffic-at least 5,000 ADT- is necessary Snow control, traffic effects on new concrete, and corrosion Facebook The dollar impact of corrosion on highway bridges is considerable. concrete bridge decks, $1.07 billion to $2.93 billion for maintenance and cost of capital for in the majority of new bridge construction, with the limited use of stainless. importance of careful planning for traffic control and alternative routes during bridge Types and Causes of Concrete Deterioration - Portland Cement. Articles cover such topics as pavement and shoulder maintenance, snow. the negative environmental impacts associated with salt and calcium chloride. Changing ice or snow into water requires heat from the air, the sun, the pavement, or traffic Road surface type Snow and ice melt more rapidly on a concrete surface