

STREET INFRASTRUCTURE RENEWAL PROGRAM

INTRODUCTION

This is to inform the public regarding selection criteria for major roads such as expressway, arterial and collector roads eligible for roadway treatment, as well as some brief information regarding the treatment solutions.

The information provided here is not intended to be conclusive. Each road has its own unique aspects, which might lead to alternate priority or treatment solutions.

HOW ARE LOCATIONS SELECTED?

Each year the City of Regina selects roads for capital road treatment projects using common criteria and directive of City Council, including:

- Importance of the road, e.g. volume of traffic and type of traffic (passenger car, bus, truck). As arterial and collector roads carry together approximately 80% of total vehicle traffic, they have a higher priority than local streets. Local streets which are part of a bus route have higher priority than streets with only residential traffic. The different types of streets are defined in a road classification system developed by the City.
- Road condition, severity of distresses, age of road, history of maintenance, etc. City of Regina surveys regularly the condition of the roads and sidewalks.
- Other type of work planned affecting the road such as sewer and water, traffic signals, bridges, etc.
- Available budget. Due to budget limitations not all roads eligible for a treatment project can be completed within one year.

Based on these criteria a multiple-year street infrastructure renewal program is established, which is updated annually.

In addition to these capital road treatment projects, which each have their individual assigned project budget, the City of Regina also allocates a separate budget for routine road maintenance operations, such as pothole patching, sidewalk repair, and maintenance paving. The allocation of this budget is based on severity of conditions.

ROADWAY TREATMENT SOLUTIONS

Typical roadway treatment solutions used by the City of Regina include:

- **Patching.** This is part of routine maintenance and involves the typical repair of potholes or utility cuts. Localised, quick, temporary and low cost solution.

Maintenance Paving. Multiple severe deficiencies are repaired together by adding a thin asphalt layer to the road. Sidewalk, structural and drainage concerns are not addressed. Typically used on local roads that surpassed their life expectancy. Temporary and low cost solution.

- **Thin Lift Overlay:** This is paving of the road with a thin layer of asphalt on top of the existing pavement. This is applied where the road shows signs of wear, however is generally still in a good condition. Good drainage is a key factor, i.e. curb, gutter and sidewalks must be in a good condition. This is a preservation method which extends considerably the road life for relative low cost (i.e. 10 % of Reconstruction cost). Medium term solution.
- **Rehabilitation:** A portion of the existing asphalt layer is removed by milling and replaced with new asphalt. This treatment is applied when the road shows severe distresses, such as cracks, potholes, depressions, etc., however the base structure (support layer) under the asphalt is still in good shape. This treatment will leave behind a road with proper drainage and a cross-slope free from depressions. Concerns related to sidewalks are addressed as well. Long term solution for medium cost (i.e. 20% of Reconstruction cost).
- **Reconstruction:** In this situation the existing base structure and asphalt layer is removed and replaced with new material or the existing material is re-cycled in place and covered with a layer of new asphalt. This treatment is used in situations with severe distresses in base structure and asphalt. This treatment will leave behind a road with proper drainage and a cross-slope free from depressions. Long term solution with high cost.

The ultimate goal during the selection process of the appropriate roadway treatment solution is to use tax dollars in the most economic way in order to return roads back to design specifications.

IF YOU HAVE AN INQUIRY

If you would like to have further information, please call Service Regina at 777 - 7000. Information regarding planned roadways construction projects can be found on the website <http://www.regina.ca/>

