

Town of Truckee Department of Public Works

FIVE-YEAR ZONE ROTATIONAL MAINTENANCE PROGRAM

Introduction

This document outlines the development of a Five-Year Zone Rotational Maintenance Program that addresses all the maintenance needs of the Town's roadways and related infrastructure. The maintenance needs for Town roadways encompasses much more than just pavement conditions. Road and related road infrastructure maintenance includes, Asphalt, Guardrail, Signs, Street Markings, ROW Vegetation, Sweeping, Drainage, Bridges and Snow Removal. The Five-Year Zone Rotational Maintenance Program is designed to insure that all town roads and infrastructure will be inspected, repaired, maintained and improved every five years.

Background

When the Town incorporated in 1993, Public Works crews inherited roads and a road infrastructure system that was the victim of poor design and neglect. During the last twenty years, Public Works crews have worked diligently and successfully at bringing the roads and supporting infrastructure up to standards. The Five-Year Zone Rotational Maintenance Program addresses the need to have a plan that regularly inspects and maintains Town roads and related infrastructure to standards.

Zone Maintenance Approach

There are two distinct seasons in Truckee, winter season and road construction season. The Departments efforts during the winter season are primarily directed towards snow removal as temperatures and conditions prevent many road maintenance functions. The Five-Year Zone Rotational Maintenance Program is designed to focus maintenance crew efforts in a designated area or zone during road construction season, May 1st thru October 31st. During the late winter and early spring months, Road Supervisors will thoroughly inspect the Sand routes and the zone designated for maintenance in the coming construction season. The Road Supervisors goal is to identify road and infrastructure maintenance issues and create repair lists for the Sand routes and the designated zone for the upcoming construction season. Upon completion of maintenance to the Sand routes, priority service requests and roads designated to be crack sealed in the Pavement Maintenance Program, crews will begin work in the designated zone. Every effort will be made to complete the maintenance list in the designated zone barring road maintenance needs such as storm damage or excessive winter weather.

Zone Designations

The Town maintains approximately 160 miles of roadway. The Public Works Department separates the Town's roadway system into two categories; sand routes (arterials and collector roads) and residential routes (local roads). Sand routes consist of approximately 65 miles of main arterials, collector roads and bus routes (see Exhibit 1). The remaining approximately 90 miles of roadway are designated as residential roadway. The sand routes experience the highest volumes of traffic and during the winter months are treated with de-icing materials. Roads treated with de-icing materials and high volumes of traffic require annual maintenance. As 65 miles of sand routes are maintained annually, they are not part of the 5-year rotation program. The Five-Year Zone Rotational Maintenance Program consists of the remaining 90 miles of residential roads which have been broken into 5 zones (see exhibit 2):

Zone I	Downtown, Gateway, Meadow Park, Armstrong, Rex Reids, West End and Skislope Dr. Tahoe Donner
Zone II	Tahoe Donner High Side and Inner Circle
Zone III	Tahoe Donner Wolfgang and Low Side
Zone IV	Sierra Meadow, Prosser Lakeview, Prosser Heights, Old Greenwoods and Olympic Heights
Zone V	Glenshire

DPW Maintenance Functions

Asphalt Maintenance:	Pothole Repair, Subgrade Repair, Paving, Skin Patching, Crack Sealing, Asphalt Curb Repair, Drainage Inlet Basin Repair
Bridges:	Bridge Inspection, Joint Maintenance, Plow Guard Maintenance
Drainage:	Sand and Sediment Removal from Open Ditches, Vegetation Removal from Open Ditches, Sand and Sediment Removal from Drainage Inlets, Drainage Inlet Replacement, Grate Replacement, Headwall Repairs, Culvert Flushing, Culvert Replacement, Repair Storm Damage
Guardrail:	Guardrail Inspection, Post Repair, End Treatment Repair, Rail Repair, Hardware Maintenance
ROW Vegetation Maintenance:	Brush removal, tree trimming and removal, tree and brush removal from drainage systems

Signs	Repair Signs, Install Signs, Replace Anchors, Replace Signs, Retro-reflectivity Inspections, Graffiti Removal
Striping	Refresh Lines, Refresh Markings, Line Removal, Thermo-plastic Line Repair Stripe Parking Stalls, Paint Curbs
Sweeping	Sand recovery from Sand routes, storm damage, general sweeping

Pavement Maintenance Program (PMP)

In the early 1990's the Town instituted a Pavement Maintenance Program or PMP. This is a "living" program that addresses the asphalt conditions of the Town's roadways. Town roadways are in varied conditions due to weather patterns which create extreme freeze and thaw cycles. The Town roads are broken down into three classifications, Local, Collector and Arterial. Roads are inspected at regular intervals, treated according to their classification based on the criteria set forth in the PMP. Conditions change from season to season requiring a flexible approach to asphalt maintenance. The Public Works Department assists with the implementation of the PMP thru crack sealing roads prior to slurry application, pothole maintenance and subgrade repair. **The Five-Year Zone Rotational Maintenance Program works outside the PMP but with consideration of the PMP.**

Service Requests

The Public Works Departments regularly receives notification from the public of road maintenance related issues (Service Requests). Service requests are prioritized by Public Works Supervision and responded to accordingly. **Service requests take priority over the Five-Year Zone Rotational Maintenance Program.**

Cost

There will be no additional cost associated with the implementation of the Five-Year Zone Rotational Maintenance Program. Current staffing levels are designed to accommodate the regular maintenance of Town roads and related infrastructure.

Exhibit 2 - Five-Year Rotational Road Maintenance Program 2014/2015

Legend

- Zone_I
- Zone_II
- Zone_III
- Zone_IV
- Zone_V



Zone II - Tahoe Donner High Side and Tahoe Donner Inner Circle

Zone III - Tahoe Donner Wolfgang and Tahoe Donner Low Side

Zone IV - Sierra Meadows, Prosser, Old Greenwood and Olympic Heights

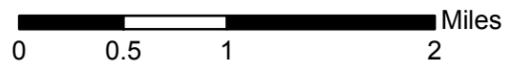
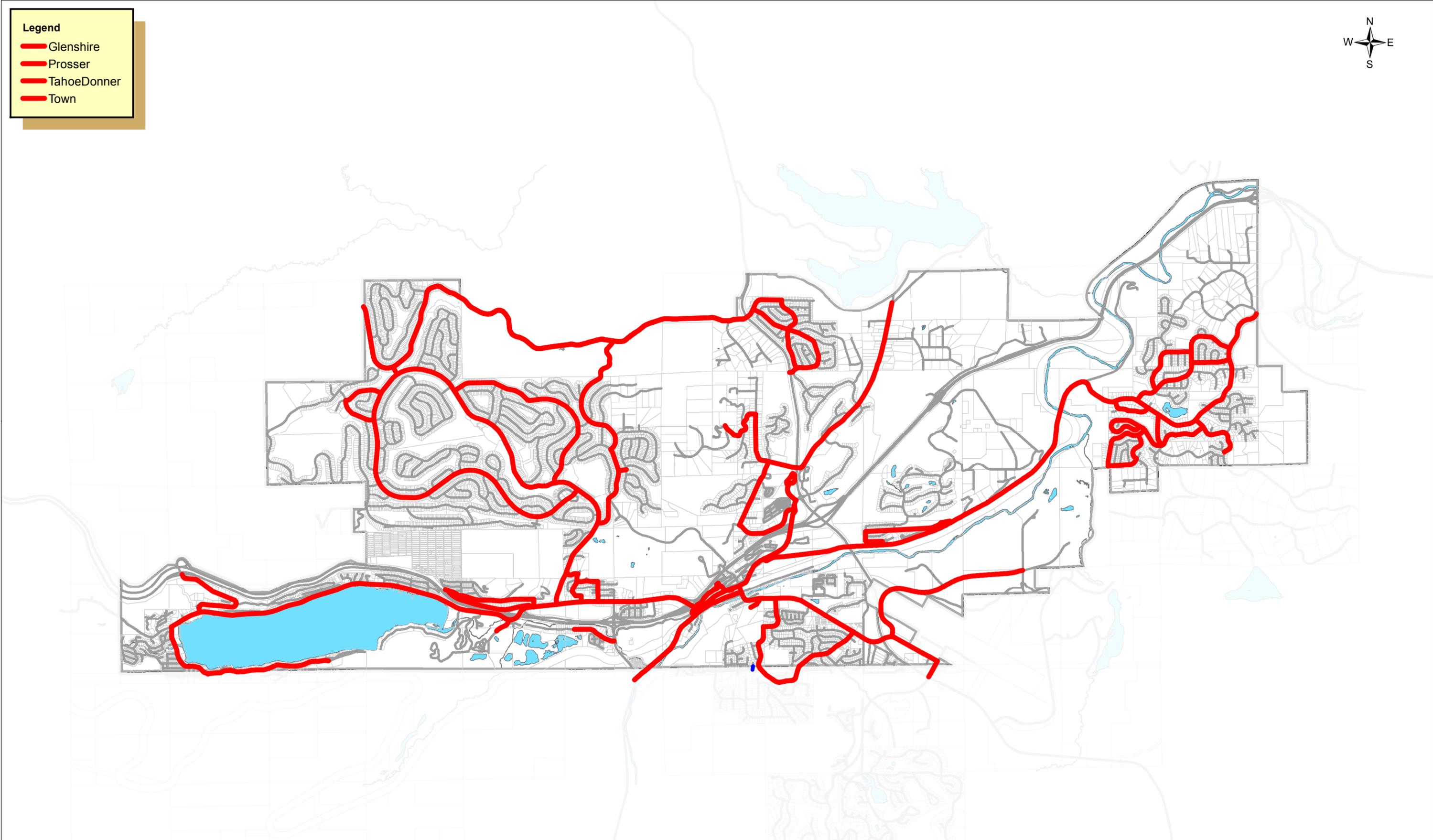
Zone V - Glenshire

Zone 1 - Downtown, Armstrong, West End, Rex Ried, Meadow Park and Gateway

Exhibit 1: Sand Routes - Five-Year Rotational Maintenance Program 2014/2015

Legend

- Glenshire
- Prosser
- TahoeDonner
- Town



1 in = 1 miles