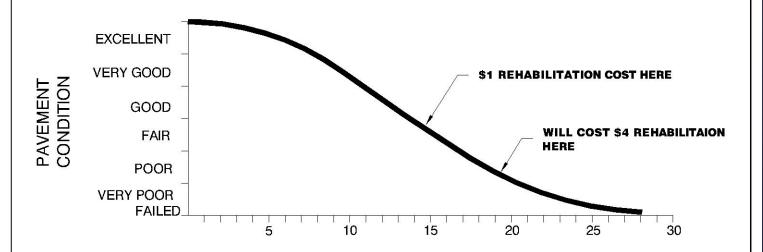


### Every road has a design life and will eventually fail

- ম Construction materials
- ম Construction methods
- ম Design criteria

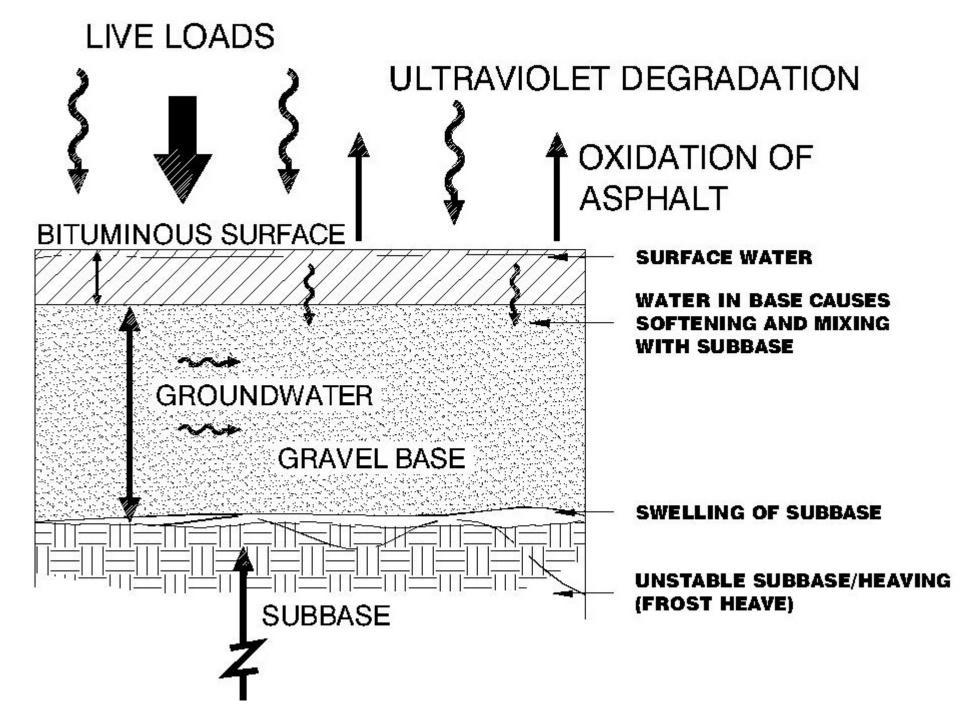
#### **PAVEMENT LIFE CYCLE**





### 2. Each road will fail at a different time and for different reasons

- ষ Environmental Conditions
- ম Structural Conditions
- ষ্ণ Effects of adjacent new building construction



# 3. The goal of pavement management is to provide the best road service to the community at the lowest effective cost

- ম Level of service
- ম Regular Maintenance
- a Maximize the useful life / investment
- ষ Perform the *right* rehabilitation at the *right* time

# Pavement Management in Action

#### 1. Maintenance

- **b** Drainage repairs
- **Repairs** Pavement repairs
- & Seal coat / slurry seal
- & Curb repairs

## Pavement Management in Action

#### 2. Rehabilitation

- k Mill & resurface
- k Intersection improvements
- Drainage improvements (underdrains)
- k Traffic considerations
- k Improve utilities (sanitary, water, others)

#### 3. Reconstruction

Remove existing road structure and construct as new

### Fox Glen









### Benefits of Pavement Management Engineering

- k Independent evaluation of pavement condition
- & Comprehensive evaluation of work needed
- Preparation of engineering specifications and design, with appropriate rehabilitation work
- & Competitive construction bids
- Owner assistance- insurance protection for owner, advertising, bidding, contract preparation, recommendation of award, pay request review
- & Bids are comparable (all contractors are bidding the same work)
- & Construction inspection / quality control of the completed work
- & Available for questions that may arise or unusual conditions encountered during construction, final acceptance
- Broad engineering experience with a wide range of concerns drainage, soils, concrete and bituminous materials, local contractor contacts
- □ Design layout / survey staking

