

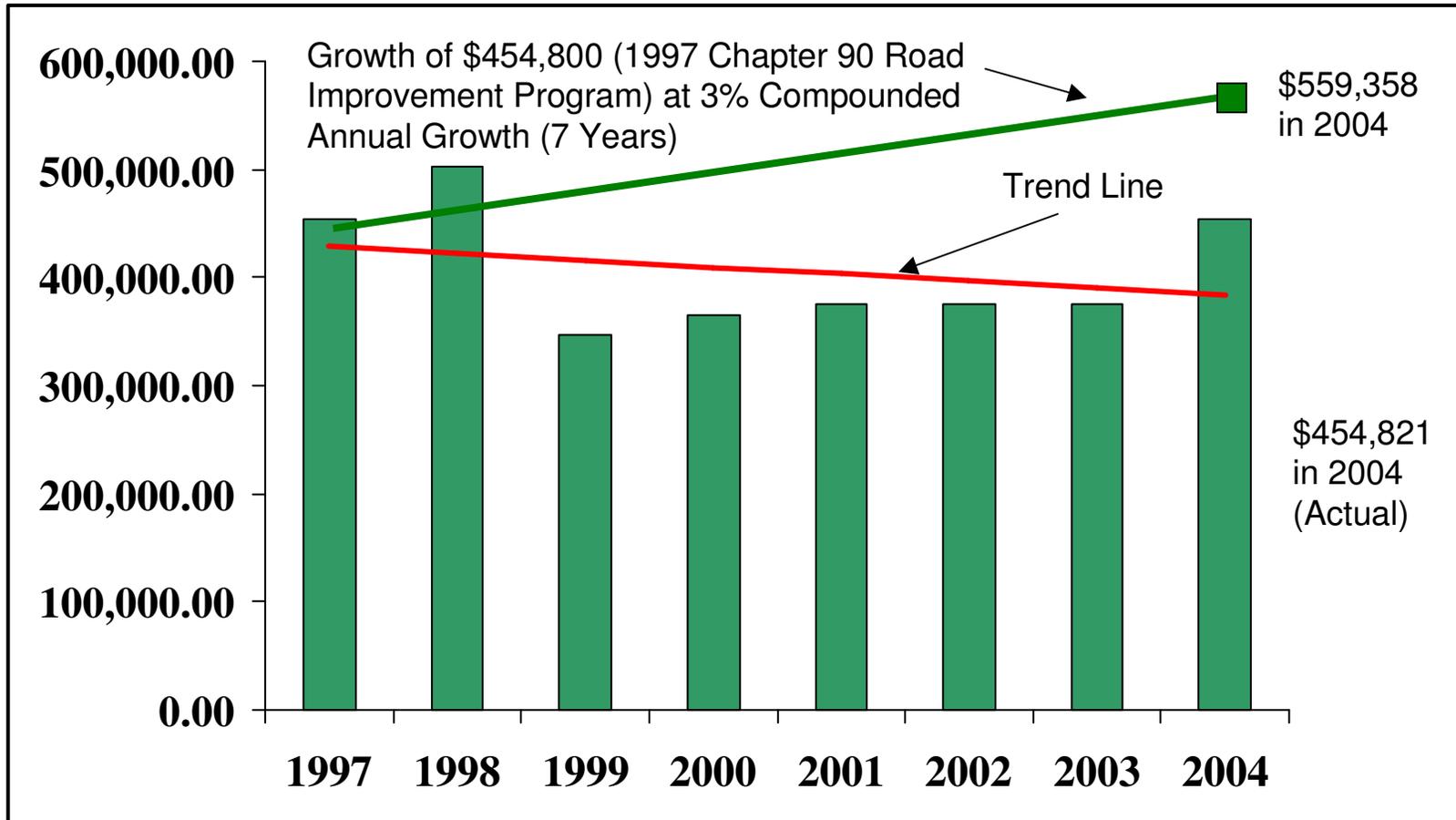


**Town of Marshfield  
Road Improvement Program  
Revision 1**

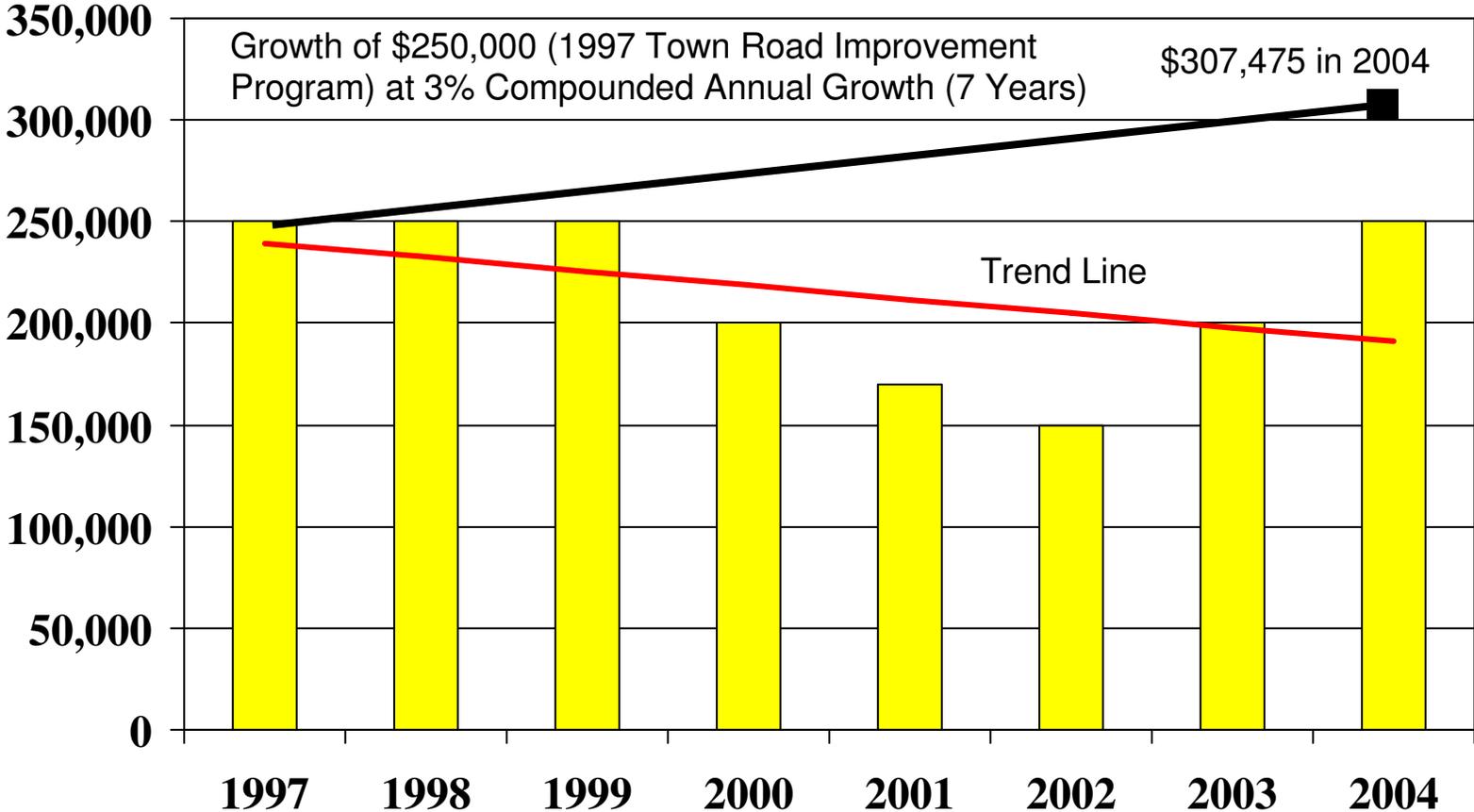
**Department of Public Works**

**24 September 2004**

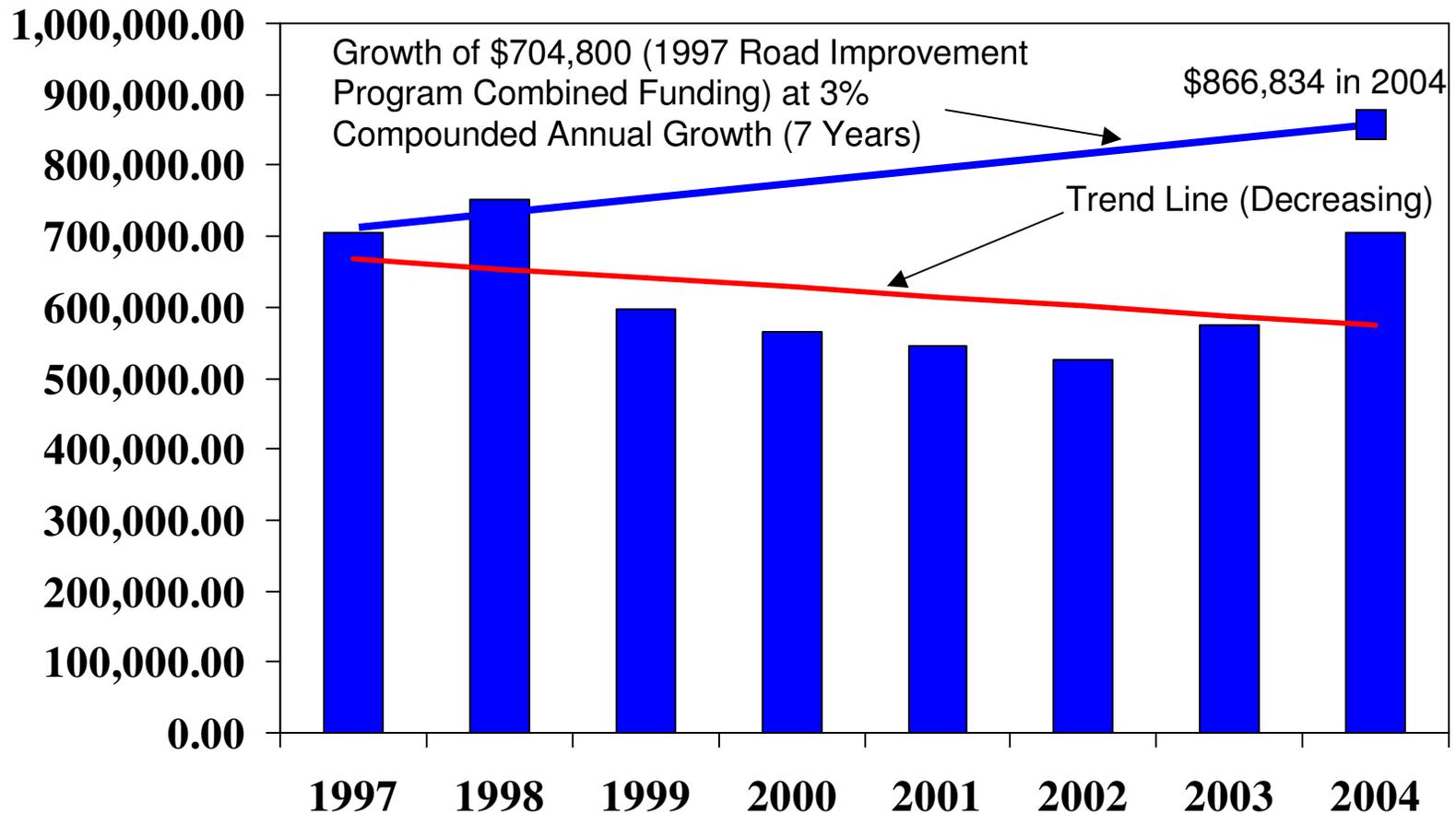
# Town of Marshfield Road Improvement Program Funding Chapter 90



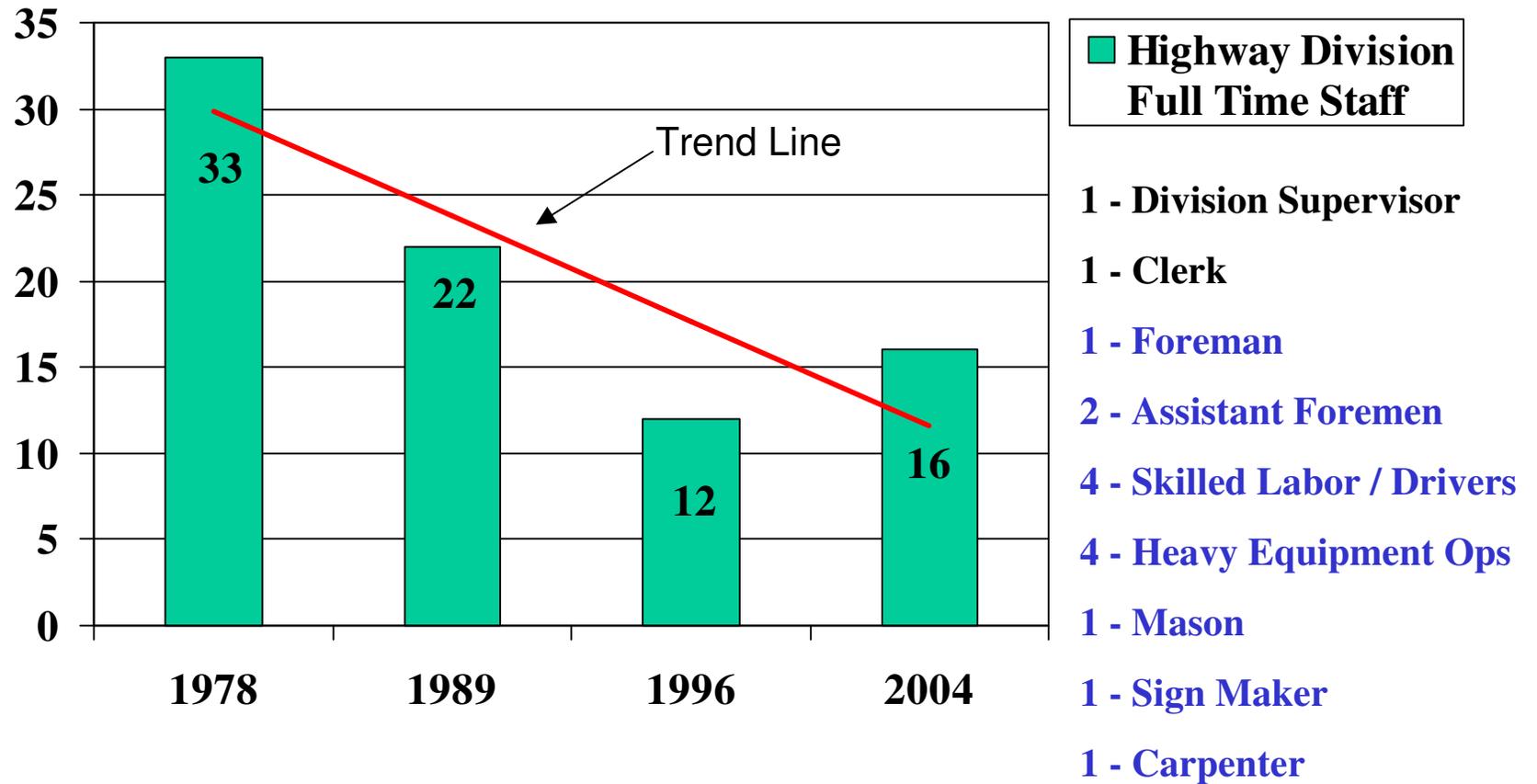
# Town of Marshfield Road Improvement Program Funding Town



# Town of Marshfield Road Improvement Program Annual Funding Combined Chapter 90 and Town



# Town of Marshfield Highway Department Manpower



**Town of Marshfield**  
**Road Improvement Program**  
**Growth of Work (excludes State Roads)**

	<b>Length of Roads (Miles)</b>	<b>Catch Basins</b>	<b>Manholes</b>	<b>Drop Inlets</b>
<b>Before 1997</b>	<b>499,256</b> <i>(94.6 Miles)</i>	<b>1,982</b>	<b>648</b>	<b>71</b>
<b>Added After 1997</b>	<b>220,189</b> <i>(41.7 Miles)</i>	<b>981</b>	<b>549</b>	<b>39</b>
<b>Total</b>	<b>719,445</b> <i>(136.3 Miles)</i>	<b>2,963</b>	<b>1,197</b>	<b>110</b>
<b>Change</b>	<b>44%</b>	<b>49%</b>	<b>85%</b>	<b>55%</b>

**Apparent expectation that the DPW staff can do over 40% more work with 25% less money and 50% less people! ?**

# Town of Marshfield Road Improvement Program

- **Challenge:**
  - More roads, catch basins, manholes and drop inlets;
  - Less funding and less people means less work that can be done.
- **Requirements:**
  - Increase FY-05 or equivalent Road Improvement Program Funding (Town and Chapter 90) to \$850,000 to take care of Public Roads accepted prior to 1997;
  - Increase FY-05 or equivalent Road Improvement Program Funding (Town and Chapter 90) by an **additional** \$350,000 to take care of Public Roads accepted after 1997;
  - Impose moratorium on acceptance of new roads unless funding is available to maintain and repair the roads;
  - Increase highway division staff by 8 people with additional equipment to repair and maintain road surfaces and drainage structures.

# Town of Marshfield Road Improvement Program

- **Budget Impact:**
  - \$500K Chapter 90 Funds
    - Include all accepted roads in MA Highway Database
  - \$ 700K Town Highway Funds (\$250K today)
  - \$ 265K for 8 new People (\$538K for 16 people today)
- **Results:**
  - Public roads will be properly maintained if the Road Improvement Program is funded to \$1,200,000 annually in CY 2004 dollars and Highway staff is increased by 8 people.
  - Net change is \$450K more for maintaining roads and \$265K more for 8 new people.
  - The current impact of the Town's Road Program (\$250K) and Highway Division staff (\$538K) on the average taxpayer is **\$31.90** based on the FY-05 General Fund (GF) Budget of \$61,753,988. The impact of the **change** in the Town's Road Program (additional \$450K) and the Highway Division staff (additional \$265K) is **\$28.95** for the average taxpayer based on the FY-05 General Fund Budget. *Note: Average taxpayer pays about \$2,500 per year according to the Town Collector.*

# **Town of Marshfield**

## **Road Improvement Program**

### **Priority Roads Based on Usage and Public Facilities**

- **Without adequate funding and staffing, the DPW will focus on maintaining higher priority roads and drainage structures only (54.825 Miles); remaining roads will only be maintained on emergency basis only, or as funding otherwise allows. The priority roads are:**
  - **Acorn Street / Beach Street / Canal Street / Canoe Tree Street**
  - **Careswell Street / Church Street / Clay Pit Road**
  - **Damon's Point Road / Dyke Road / Eames Way / Elm Street**
  - **Enterprise Drive / Ferry Street / Forest Street / Furnace Street**
  - **Grove Street / High Road / Highland Street / Oak Street**
  - **Ocean Street / Old Main Street / Old Main Street Extension**
  - **Old Ocean Street / Old Plain Street / Parsonage Street**
  - **Pine Street / Pleasant Street / Plymouth Avenue / Prospect Street**
  - **School Street / Sea Street / Snow Road / South River Street**
  - **Standish Street / Stratton Avenue / Summer Street**
  - **Town Pier Road / Union Street / Valley Path / Webster Street**
  - **Winslow Cemetery Road / Winslow Street**

# **Road Improvement Program Scope of Work – CY 2004**

**(Does not include Sewer 2000 Roads)**

- **Paving:**
  - Assumption Road
  - Bow Street (Water Funding)
  - Corn Hill Lane (portion using Water Funding)
  - Everson Road
  - West Brook Road
  - Webster Street
- **Double Stone Seal:**
  - Forest Street
  - Highland Street (Union Street to Oak Street))
  - Old Main Street Extension
  - Pine Street
  - School Street (Forest Street to Old Main Street)
  - Valley Path
- **Patch and Crack Seal:**
  - Ferry Street
  - South River Street

## Road Improvement Program Scope of Work – CY 2004 (Continued)

- **Comparison of Double Stone Seal versus Paving for roads in 2004:**

<b>Length of Roads (Miles)</b>	<b>Square Yards</b>	<b>Stone Seal Cost</b>	<b>Overlay Cost</b>	<b>Milling Plus Overlay Cost</b>
<b>40,194 Feet (7.6125 Mi.)</b>	<b>82,593</b>	<b>\$234,140. \$5.83 per Foot</b>	<b>\$362,418.</b>	<b>\$860,255. \$21.40 per Foot</b>

**Note:** We need to continue Double Stone Sealing to preserve Road Surfaces until such time as paving can be afforded.

Marshfield has 4,270 drainage structures on Town maintained public ways.

# Road Improvement Program

## Scope of Work – CY 2005

- **Paving:**
  - Furnace Street
- **Double Stone Seal:**
  - Highland Street (Oak Street to Main Street)
  - Oak Street
  - School Street (Plain Street to Forest Street)
  - Spring Street
  - Union Street
- **Patch and Crack Seal:**
  - Careswell Street
  - Dyke Road
  - Parsonage Street
  - Ocean Street (Old Colony to Dyke Road)

# Road Improvement Program Scope of Work – CY 2006

- **Paving:**
  - Beach Street
  - Canal Street
  - Plymouth Avenue
  - South River Street
- **Double Stone Seal:**
  - Parsonage Street
- **Patch and Crack Seal:**
  - Pending

# Road Improvement Program Scope of Work – CY 2007

- **Paving:**
  - Dyke Road
  - Careswell Street
  - Ocean Street (Old Colony to Dyke Road)
  - Sea Street
- **Double Stone Seal:**
  - Pending
- **Patch and Crack Seal:**
  - Pending

# Road Improvement Program

## Scope of Work – CY 2008

- **Paving:**
  - Clay Pit Road
  - Grove Street
  - Ferry Street (Church Street to Sea Street)
  - Pleasant Street
  - Prospect Street
  - Summer Street
- **Double Stone Seal:**
  - Pending
- **Patch and Crack Seal:**
  - Pending