

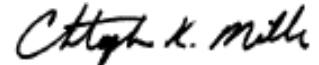
**ROSEVILLE**  
**REQUEST FOR COUNCIL ACTION**

Date: 10/25/10  
Item No.: 13.a

Department Approval



Acting City Manager Approval



Item Description: 2011 Public Works Work Plan

**BACKGROUND**

Each year Public Works staff monitors and evaluates the condition of City infrastructure for development of ongoing maintenance and replacement needs plans. We use this information to develop capital improvement plans and in the development of the annual budget request in these areas. We also work closely with Ramsey County and Mn/DOT on improvements to City infrastructure as a part of their road improvement projects within Roseville. 2011 proposed road construction is mainly mill and overlay of pavement due to surface distress related to age of pavement since many streets were reconstructed in the 1980's. The following are improvements that we are recommending for the 2011 construction season on the city system. Ramsey County has not finalized their total work program for 2011.

**POLICY OBJECTIVE**

- Pavement Management Program Projects:** Each year the Public Works Department evaluates infrastructure needs based on the City's Pavement Management Program and assessment of utility infrastructure. Streets in marginal condition are recommended for major maintenance by mill and overlay. Streets in poor condition are recommended for reconstruction. We propose to include the following street segments in our 2011 construction contracts:

<b>Mill and Overlay</b>
County Road C2 (Snelling Avenue to Hamline Avenue)
Fisk Street (County Road C to Rose Place)
Rose Place (Fisk Street to Avon Street)
Aladdin Street (Rose Place to Cul- de- sac)
Elmer Street (Williams Street to Woodbridge Street)
Cohansey Boulevard (Crescent Lane to McCarron Drive)
Evergreen Court (Skillman Avenue to Cul- de- sac)
Hythe Street (Draper Avenue to Roselawn Avenue)
Garden Avenue (Hamline Avenue to Lexington Avenue)
Parker Avenue (Lexington Avenue to Victoria Street)
Oakcrest Avenue (Cleveland Avenue to Prior Avenue)

<b>Reconstruction</b>
Dale Street (County Road C to South Owasso Boulevard)

21 The Mill and Overlay projects are proposed to be financed through our street infrastructure  
22 funds and MSA funds. Dale Street Reconstruction which the Council previously ordered a  
23 feasibility study on will be financed by MSA Funds and assessments. The Dale Street  
24 feasibility study will be presented to the Council in December and the Council will be asked  
25 to set a public hearing date for that project. Our pavement condition and maintenance  
26 strategies result in a recommended \$900,000 annual program for our city streets, excluding  
27 the MSA system. After receiving bids for these projects, we will request that the City  
28 Council award the bid to the lowest responsible bidder.

- 29
- 30 2. **Sanitary Sewer lining and replacement, watermain replacement:** The majority of the  
31 city's sanitary sewer mains were constructed in the late 1950's and early 1960's, utilizing  
32 clay tile pipe. Over time the joint materials have failed allowing root intrusion. The pipe is  
33 also susceptible to cracking and construction damage. The 2011 Capital Improvement Plan  
34 recommends funding for a sanitary sewer main lining program to extend the life of our  
35 sanitary sewers by 50 years or more. This technology essentially installs a new resin pipe  
36 inside the old clay tile sewer main without digging up city streets, which results in minimal  
37 disruption to residents during construction. The liner pipe is inserted into the main through  
38 existing manholes and cured in place with a heat process. Any given segment is usually  
39 completed in one working day. Service line connections are reopened using a robotic cutter  
40 and remote cameras. During the process, existing flows are bypassed using pumps. This  
41 technology has been proven over the past 20 years, and costs have become competitive with  
42 open cut replacement. The City started doing this type of renovation on an annual basis in  
43 2006 and will have an annual project for the foreseeable future to replace our aging sewer  
44 infrastructure. This technology also prevents infiltration of groundwater into the system and  
45 can be credited toward current and future inflow/ infiltration surcharge. The location of this  
46 work varies and is spread throughout the City based on system priority.

47

48 We are also evaluating sanitary and storm sewer replacement needs in our pavement  
49 replacement areas as well as utility infrastructure needs in County and State project areas.  
50 Those replacements are being identified as the project plans are being developed and will be  
51 communicated to the Council at a later date.

52

53 We are recommending replacement of the cast iron watermain as a part of the Dale Street  
54 reconstruction project. This watermain was install in the early 1960's and has experienced  
55 several breaks. This is the lowest cost opportunity to replace this infrastructure.

- 56
- 57 3. **Seal Coat:** Pavement maintenance policies support an annual seal coat program of  
58 approximately 15 miles of city streets each year. This consists of applying a thin film of  
59 bituminous oil and covering it with fine aggregate. These treatments have proven to add a  
60 minimum of 10 years to the life of the pavement. With potential continued budgetary  
61 constraints in 2011, we may need to reduce the size of the program depending on the bid  
62 prices received in February 2011 for materials. Asphalt material prices are extremely volatile  
63 and nearly in 2008. In 2010, they increased again over 2009 pricing. It is expected that these  
64 prices will continue to rise.

- 65
- 66 4. **Pathways :** A pathway will be recommended to be constructed with the Dale Street  
67 reconstruction. Work continues developing the plans for the federally funded pathway along

68 Fairview Ave. from the Rosedale area to the St. Paul campus of the University of Minnesota.  
 69 Initially construction was anticipated to begin in 2009 but due to workload in 2009 and 2010  
 70 and easement acquisition, staff was unable to develop final plans and specifications required  
 71 for bidding. This project is anticipated to be ready for bid in Winter 2010. The estimated cost  
 72 for this project is \$1,200,000.  
 73

74 **FINANCIAL IMPACTS**

75 The Street Infrastructure Fund interest earnings support the local street Mill and Overlay  
 76 program. Due to current construction costs this level of program may be in jeopardy for future  
 77 years due to lower interest earnings. MSA street overlays are proposed to be funded from the  
 78 City’s MSA account. Utility improvements are funded from the respective Utility enterprise  
 79 funds.  
 80

81 The sealcoat, crack sealing, and major patching are funded from the street maintenance budget.  
 82 This budget is supported by the general fund tax levy and MSA maintenance allocation. Staff  
 83 recommends funding a program consistent with our pavement maintenance policies. We expect  
 84 material costs to increase with the rise in oil industry related costs.  
 85

86 By taking action now, the Council will be authorizing staff to work on plans for the projects as  
 87 described. As project bids are opened, staff will bring individual contracts to the City Council  
 88 for approval. A detailed cost breakdown will be included with those Council Actions.

89 **STAFF RECOMMENDATION**

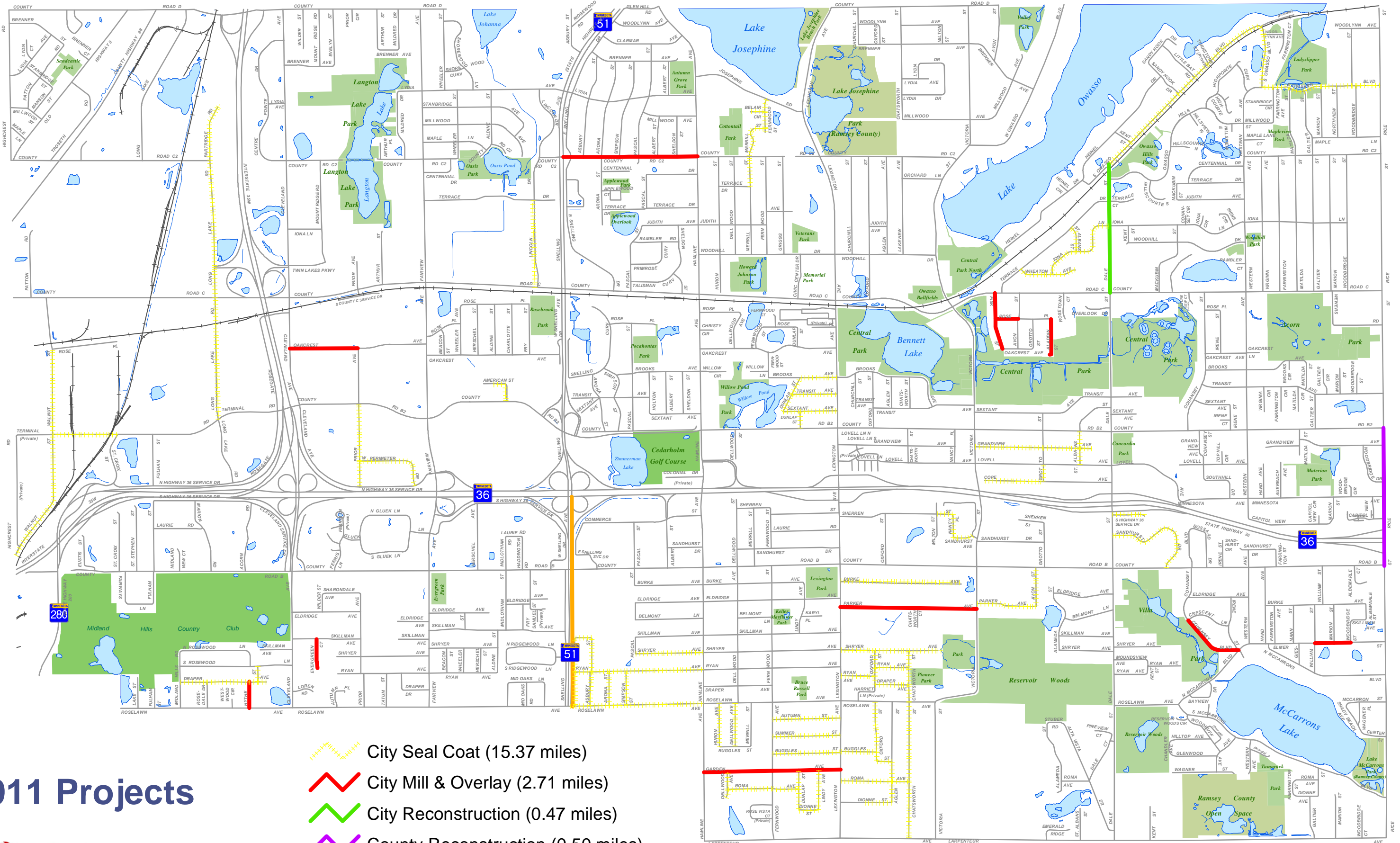
90 **Staff Recommendation:** The following improvements are recommended for construction in  
 91 2011. Additional utility improvements may be identified at a later date and brought to the  
 92 Council for authorization.  
 93

Location	Funding Source	Cost Estimate
<b>Mill and Overlay Projects</b>		
County Road C2 (Snelling Avenue to Hamline Avenue)	MSA	\$166,432.89
Fisk Street (County Road C to Rose Place)	Infrastructure Fund	\$ 61,051.00
Rose Place (Fisk Street to Avon Street)	Infrastructure Fund	\$ 24,107.27
Aladdin Street (Rose Place to Cul- de- sac)	Infrastructure Fund	\$ 38,323.24
Elmer Street (Williams Street to Woodbridge Street)	Infrastructure Fund	\$ 38,420.77
Cohansey Boulevard (Crescent Lane to McCarron Drive)	Infrastructure Fund	\$ 66,718.42
Evergreen Court (Skillman Avenue to Cul- de- sac)	Infrastructure Fund	\$ 31,724.37
Hythe Street (Draper Avenue to Roselawn Avenue)	Infrastructure Fund	\$ 27,780.67
Garden Avenue (Hamline Avenue to Lexington Avenue)	Infrastructure Fund	\$156,163.54
Parker Avenue (Lexington Avenue to Victoria Street)	MSA	\$155,875.29
Oakcrest Avenue (Cleveland Avenue to Prior Avenue)	MSA	\$201,720.96
<b>Subtotal</b>		<b>\$968,318.42</b>
<b>Reconstruction Project</b>		
Dale Street (County Road C to South Owasso Boulevard)	MSA, Assessments, Sanitary Sewer & Water Fund	\$1,350,000.00
<b>Subtotal</b>		<b>\$1,350,000.00</b>
<b>Utility Work</b>		
Sanitary Sewer lining/replacement	Sanitary Sewer Fund	\$400,000
Watermain Replacement	Water Fund	\$200,000

		<b>Subtotal</b>	<b>\$600,000.00</b>
<b>Major Street Maintenance</b>			
Sealcoat, crackseal	Street Maintenance Budget		\$250,000.00
		<b>Subtotal</b>	<b>\$250,000.00</b>
<b>Total 2011 Project Cost</b>			<b>\$3,168,318.42</b>

- 94 **REQUESTED COUNCIL ACTION**
- 95 Motion approving 2011 Public Works Work Plan.






**Prepared by: Duane Schwartz and Deb Bloom**  
 Attachments: A: 2011 Project Location Map



# 2011 Projects



Prepared by:  
Engineering Department  
September 23, 2010

-  City Seal Coat (15.37 miles)
-  City Mill & Overlay (2.71 miles)
-  City Reconstruction (0.47 miles)
-  County Reconstruction (0.50 miles)
-  State Mill & Overlay (0.76 miles)

Data Sources and Contacts:  
 \* Ramsey County GIS Base Map (8/02/10)  
 \* City of Roseville Engineering Department  
 For further information regarding the contents of this map contact:  
 City of Roseville, Engineering Department,  
 2660 Civic Center Drive, Roseville MN

DISCLAIMER:  
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