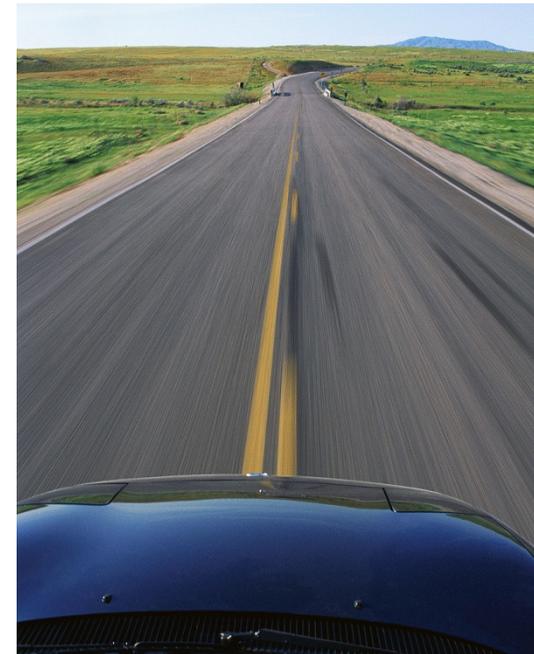


City of Lockport

Pavement Management Optimization



Prepared by



The problem....

Good Roads are NOT Glamorous

...SO

- ▶ Easily deferred
- ▶ Routinely not invested in
- ▶ Simply forgotten until its too late (thus too expensive)



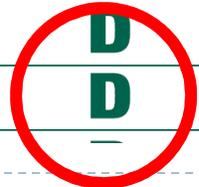
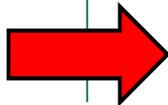
This is a National and State issue!

2010 REPORT CARD for **illinois** INFRASTRUCTURE

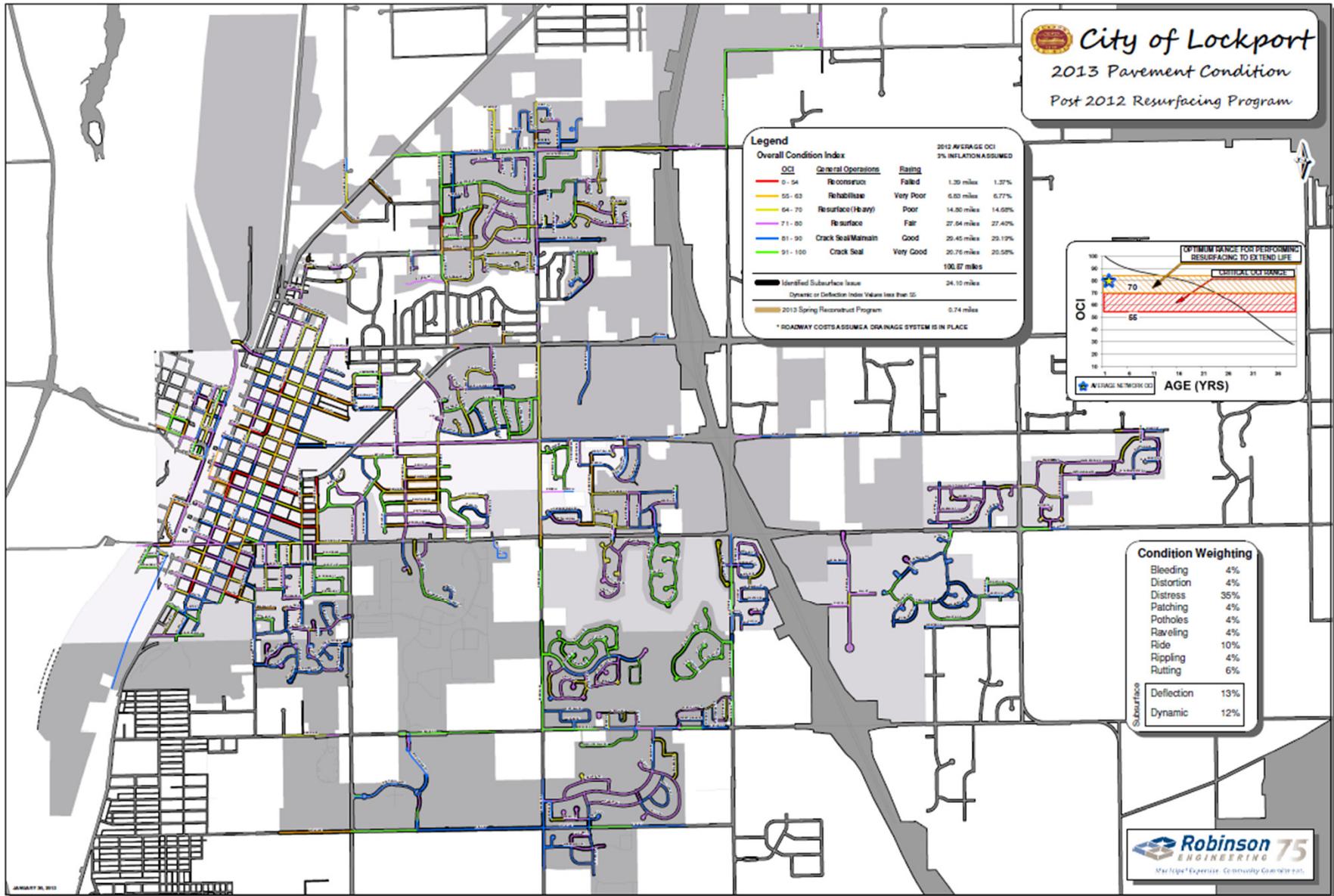
Each category was evaluated on the basis of condition vs. need and funding vs. need.

- A = Exceptional**
- B = Good**
- C = Mediocre**
- D = Poor**

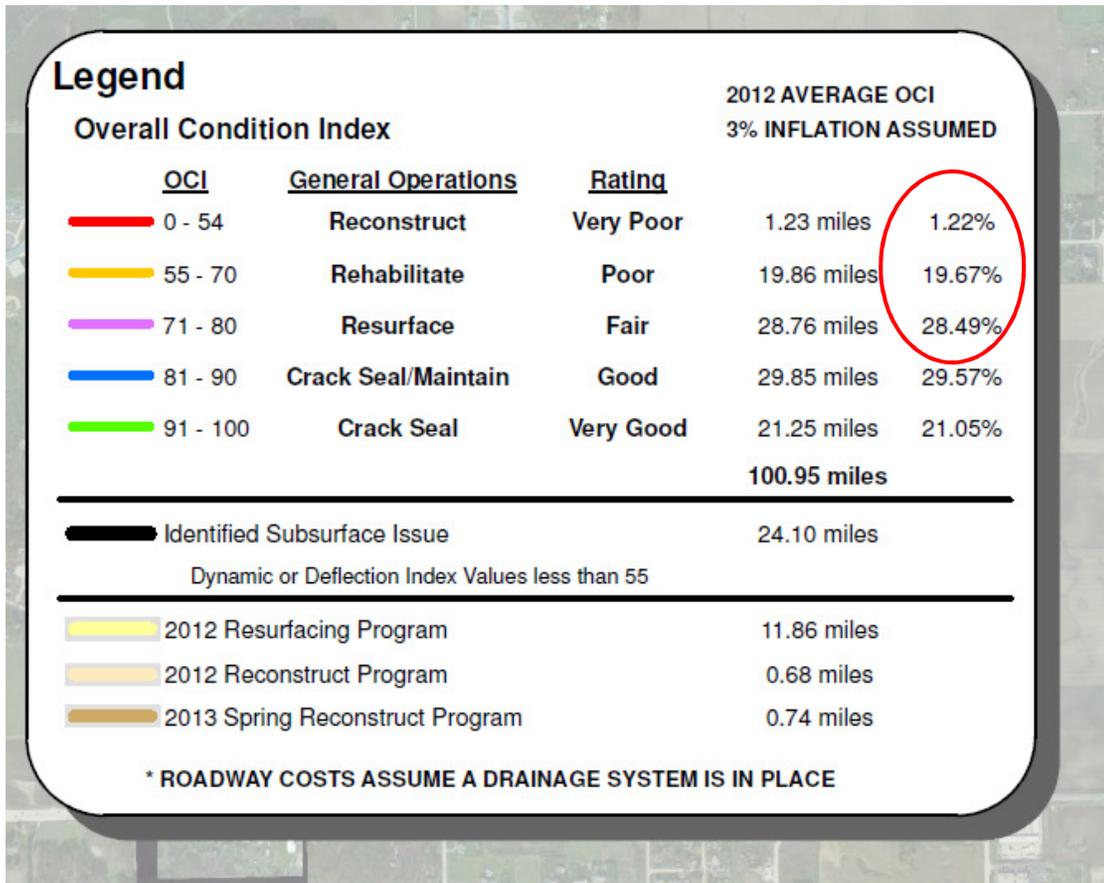
AVIATION	C+
BRIDGES	C+
DAMS	C
DRINKING WATER	D+
NAVIGABLE WATERWAYS	D-
RAIL	D
ROADS	D



Pavement Management Optimization



Pavement Management Optimization



50% of the roads need work!



Pavement Management Optimization



▶ Pavement Management Optimization



Pavement Management Optimization



Pavement Management Optimization

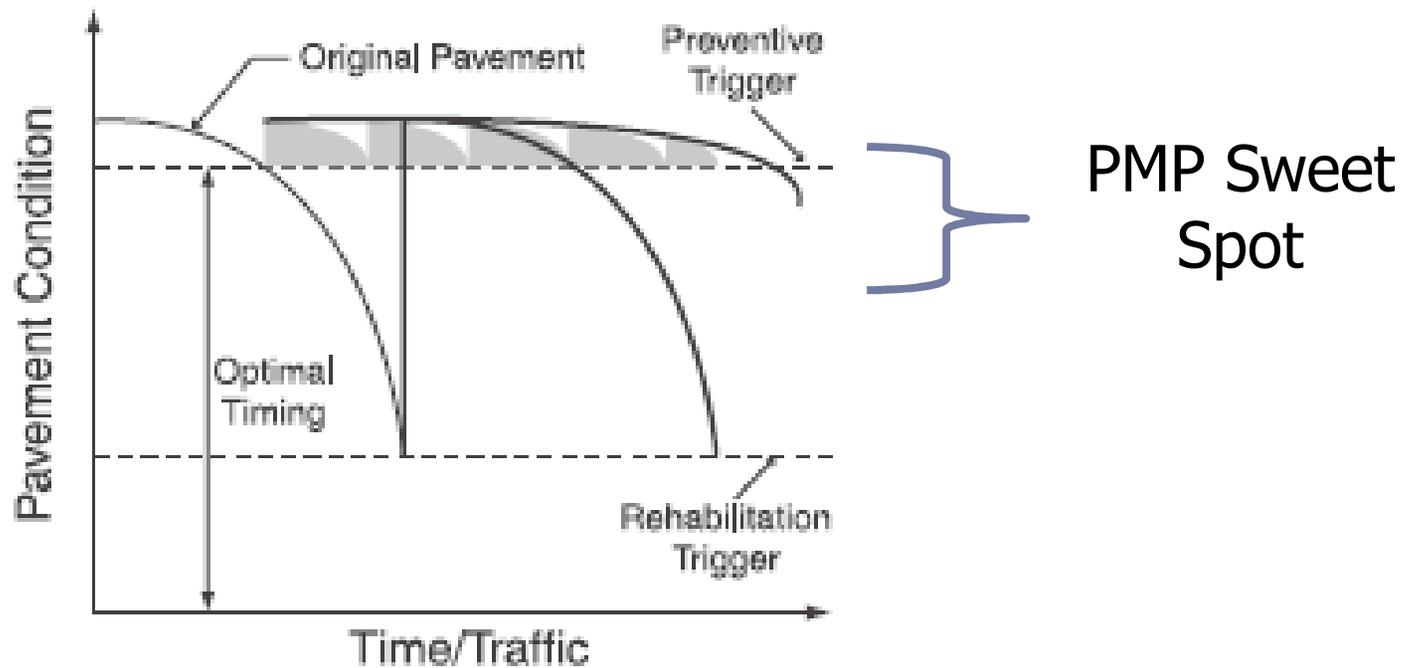


▶ Pavement Management Optimization



Pavement Management Optimization

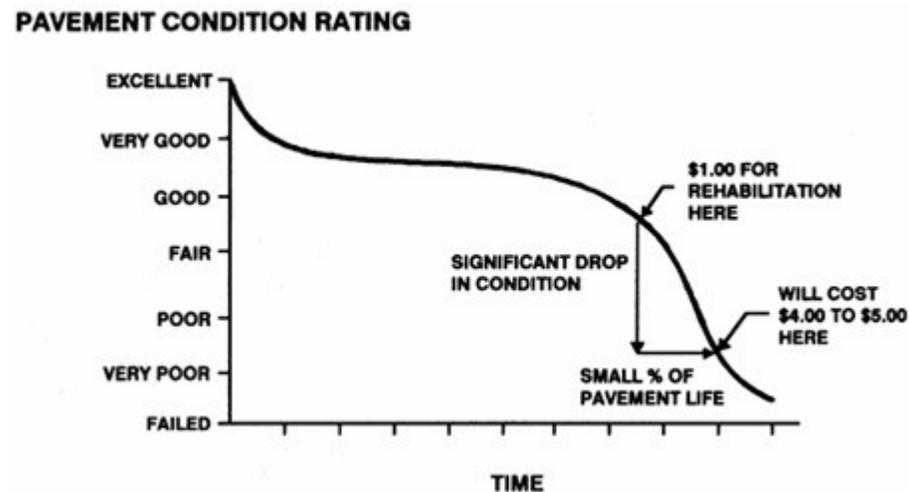
Graph of Life



**Extending the useful life
of pavement**

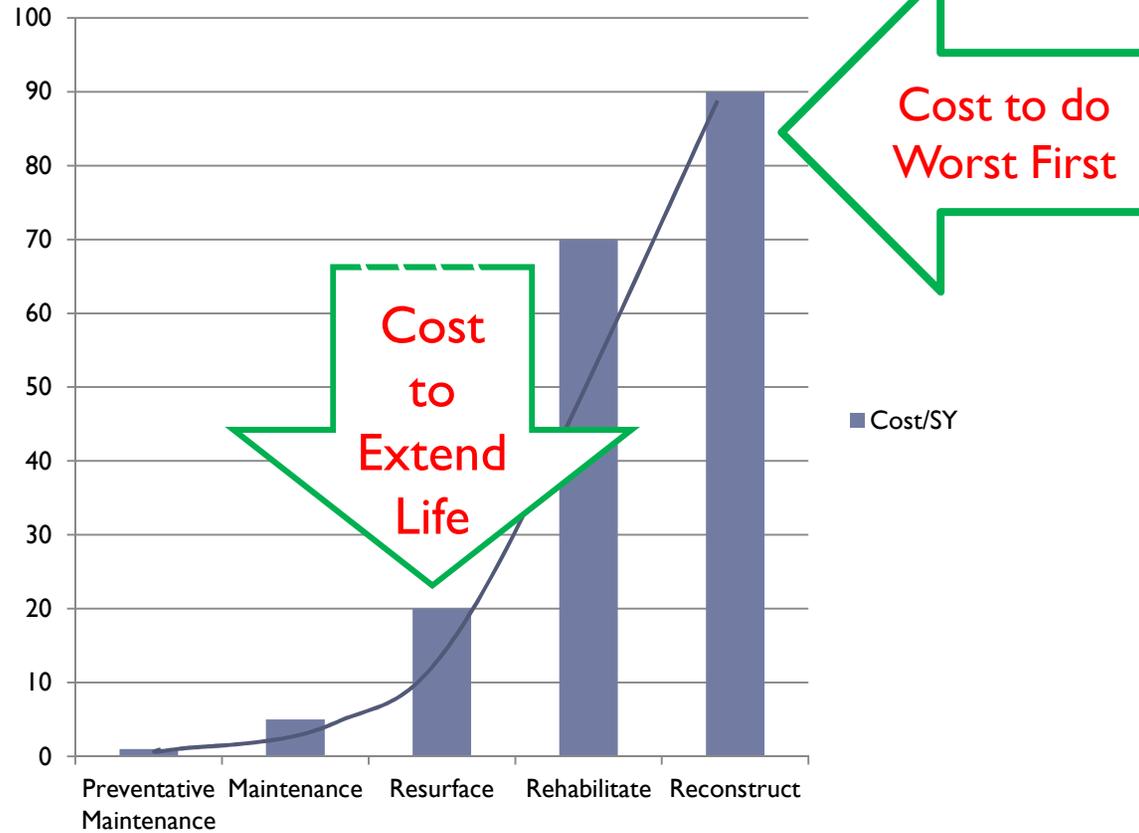
Key principles

- ▶ For every \$1.00 we spend at the right time, we save AT LEAST \$4.00.
- ▶ Better infrastructure = higher property values



Timing REALLY is everything

Expense of Operation



Pavement Management Optimization

Proposed Program

Funding is based on the City's current projections as provided by the finance department.

Projected bond issue in year 8

Option 3 (c) - BALANCED		
Bond Issue w/varied funding		
Reinvestment needed after 10th year		
Cost	Miles Done	OCI
4,915,600	15.4	81.75
908,900	5.2	79.87
958,400	5.0	78.13
619,100	2.8	76.45
2,636,000	6.6	75.78
598,500	2.8	74.18
644,600	2.8	72.76
6,003,200	12.7	73.68
936,700	2.8	72.3
945,000	2.6	71.1

Key Policy:

Balanced Approach with a 10% 60% and 30% split is the cost effective solution.

Note: This approach remains consistent regardless of the final funding allocation

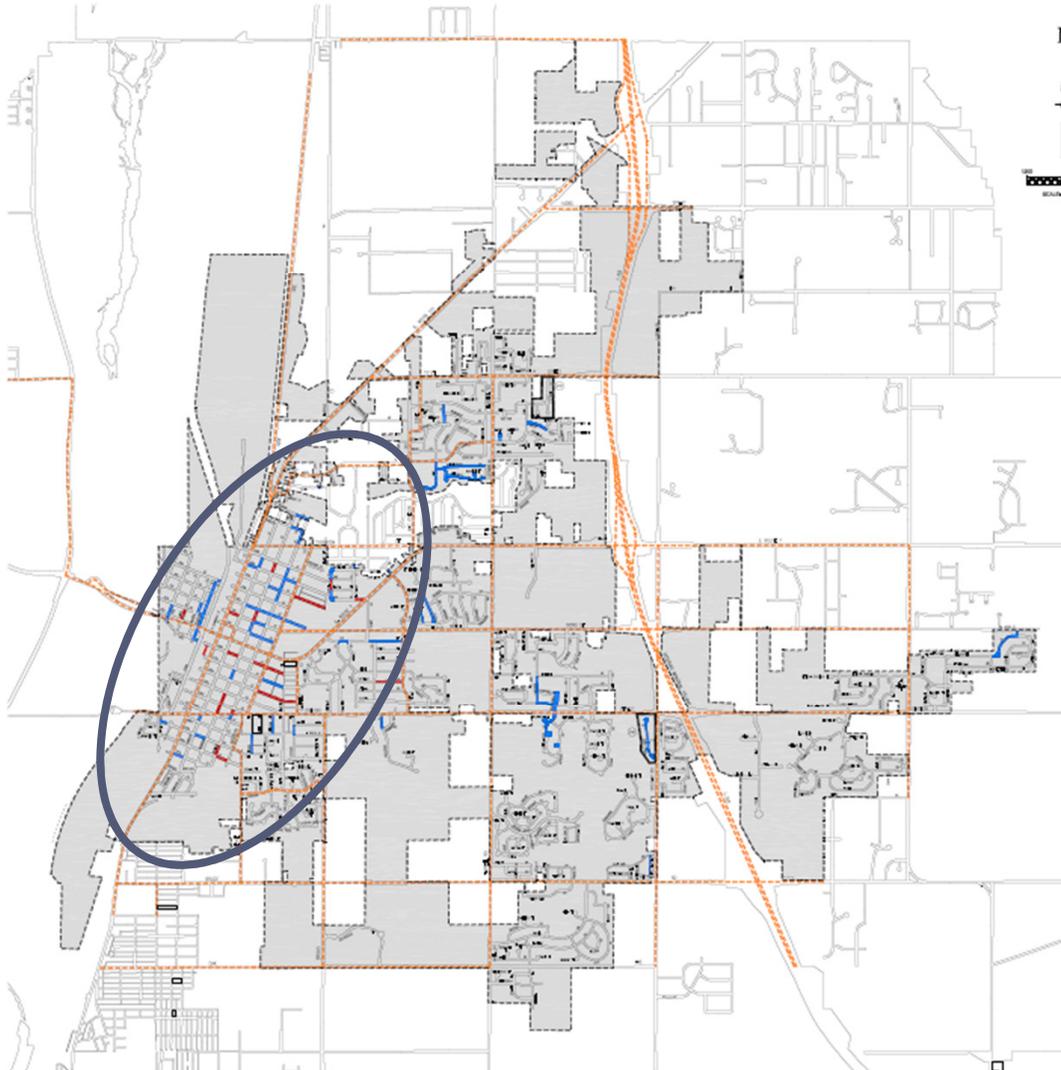
CITY of LOCKPORT

YEAR 2013 - BUDGET: \$4,900,000

- LEGEND**
- MILL AND RESURFACE
 - REHABILITATION / RECONSTRUCT
 - CRACK SEALING AND PATCHING (AS DIRECTED BY CITY) - \$50,000
 - - - - - FALU/FAP ROUTES
 - ▭ CITY LIMITS

**ESTIMATED STORM SEWER COSTS
PER B&W REPORT
(NOT CURRENTLY BUDGETED)**

- E 3RD ST • \$121,000
- E 6TH ST • \$132,500
- E FRANKLIN • \$92,000**
- E MORGAN • \$145,000**
- N JEFFERSON • \$124,000**
- S MUEHL • \$127,800
- E 4TH • \$28,300



MILL AND RESURFACE		Item	Cost
E 1ST ST	REHABILITATE	REHABILITATE	\$121,000
E 2ND ST	REHABILITATE	REHABILITATE	\$132,500
E 3RD ST	REHABILITATE	REHABILITATE	\$92,000
E 4TH ST	REHABILITATE	REHABILITATE	\$145,000
E 5TH ST	REHABILITATE	REHABILITATE	\$124,000
E 6TH ST	REHABILITATE	REHABILITATE	\$127,800
E 7TH ST	REHABILITATE	REHABILITATE	\$28,300
E 8TH ST	REHABILITATE	REHABILITATE	
E 9TH ST	REHABILITATE	REHABILITATE	
E 10TH ST	REHABILITATE	REHABILITATE	
E 11TH ST	REHABILITATE	REHABILITATE	
E 12TH ST	REHABILITATE	REHABILITATE	
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E 16TH ST	REHABILITATE	REHABILITATE	
E 17TH ST	REHABILITATE	REHABILITATE	
E 18TH ST	REHABILITATE	REHABILITATE	
E 19TH ST	REHABILITATE	REHABILITATE	
E 20TH ST	REHABILITATE	REHABILITATE	
E 21ST ST	REHABILITATE	REHABILITATE	
E 22ND ST	REHABILITATE	REHABILITATE	
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E 30TH ST	REHABILITATE	REHABILITATE	
E 31ST ST	REHABILITATE	REHABILITATE	
E 32ND ST	REHABILITATE	REHABILITATE	
E 33RD ST	REHABILITATE	REHABILITATE	
E 34TH ST	REHABILITATE	REHABILITATE	
E 35TH ST	REHABILITATE	REHABILITATE	
E 36TH ST	REHABILITATE	REHABILITATE	
E 37TH ST	REHABILITATE	REHABILITATE	
E 38TH ST	REHABILITATE	REHABILITATE	
E 39TH ST	REHABILITATE	REHABILITATE	
E 40TH ST	REHABILITATE	REHABILITATE	
E 41ST ST	REHABILITATE	REHABILITATE	
E 42ND ST	REHABILITATE	REHABILITATE	
E 43RD ST	REHABILITATE	REHABILITATE	
E 44TH ST	REHABILITATE	REHABILITATE	
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E 46TH ST	REHABILITATE	REHABILITATE	
E 47TH ST	REHABILITATE	REHABILITATE	
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E 50TH ST	REHABILITATE	REHABILITATE	
E 51ST ST	REHABILITATE	REHABILITATE	
E 52ND ST	REHABILITATE	REHABILITATE	
E 53RD ST	REHABILITATE	REHABILITATE	
E 54TH ST	REHABILITATE	REHABILITATE	
E 55TH ST	REHABILITATE	REHABILITATE	
E 56TH ST	REHABILITATE	REHABILITATE	
E 57TH ST	REHABILITATE	REHABILITATE	
E 58TH ST	REHABILITATE	REHABILITATE	
E 59TH ST	REHABILITATE	REHABILITATE	
E 60TH ST	REHABILITATE	REHABILITATE	
E 61ST ST	REHABILITATE	REHABILITATE	
E 62ND ST	REHABILITATE	REHABILITATE	
E 63RD ST	REHABILITATE	REHABILITATE	
E 64TH ST	REHABILITATE	REHABILITATE	
E 65TH ST	REHABILITATE	REHABILITATE	
E 66TH ST	REHABILITATE	REHABILITATE	
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E 72ND ST	REHABILITATE	REHABILITATE	
E 73RD ST	REHABILITATE	REHABILITATE	
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E 75TH ST	REHABILITATE	REHABILITATE	
E 76TH ST	REHABILITATE	REHABILITATE	
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E 78TH ST	REHABILITATE	REHABILITATE	
E 79TH ST	REHABILITATE	REHABILITATE	
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E 81ST ST	REHABILITATE	REHABILITATE	
E 82ND ST	REHABILITATE	REHABILITATE	
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E 86TH ST	REHABILITATE	REHABILITATE	
E 87TH ST	REHABILITATE	REHABILITATE	
E 88TH ST	REHABILITATE	REHABILITATE	
E 89TH ST	REHABILITATE	REHABILITATE	
E 90TH ST	REHABILITATE	REHABILITATE	
E 91ST ST	REHABILITATE	REHABILITATE	
E 92ND ST	REHABILITATE	REHABILITATE	
E 93RD ST	REHABILITATE	REHABILITATE	
E 94TH ST	REHABILITATE	REHABILITATE	
E 95TH ST	REHABILITATE	REHABILITATE	
E 96TH ST	REHABILITATE	REHABILITATE	
E 97TH ST	REHABILITATE	REHABILITATE	
E 98TH ST	REHABILITATE	REHABILITATE	
E 99TH ST	REHABILITATE	REHABILITATE	
E 100TH ST	REHABILITATE	REHABILITATE	

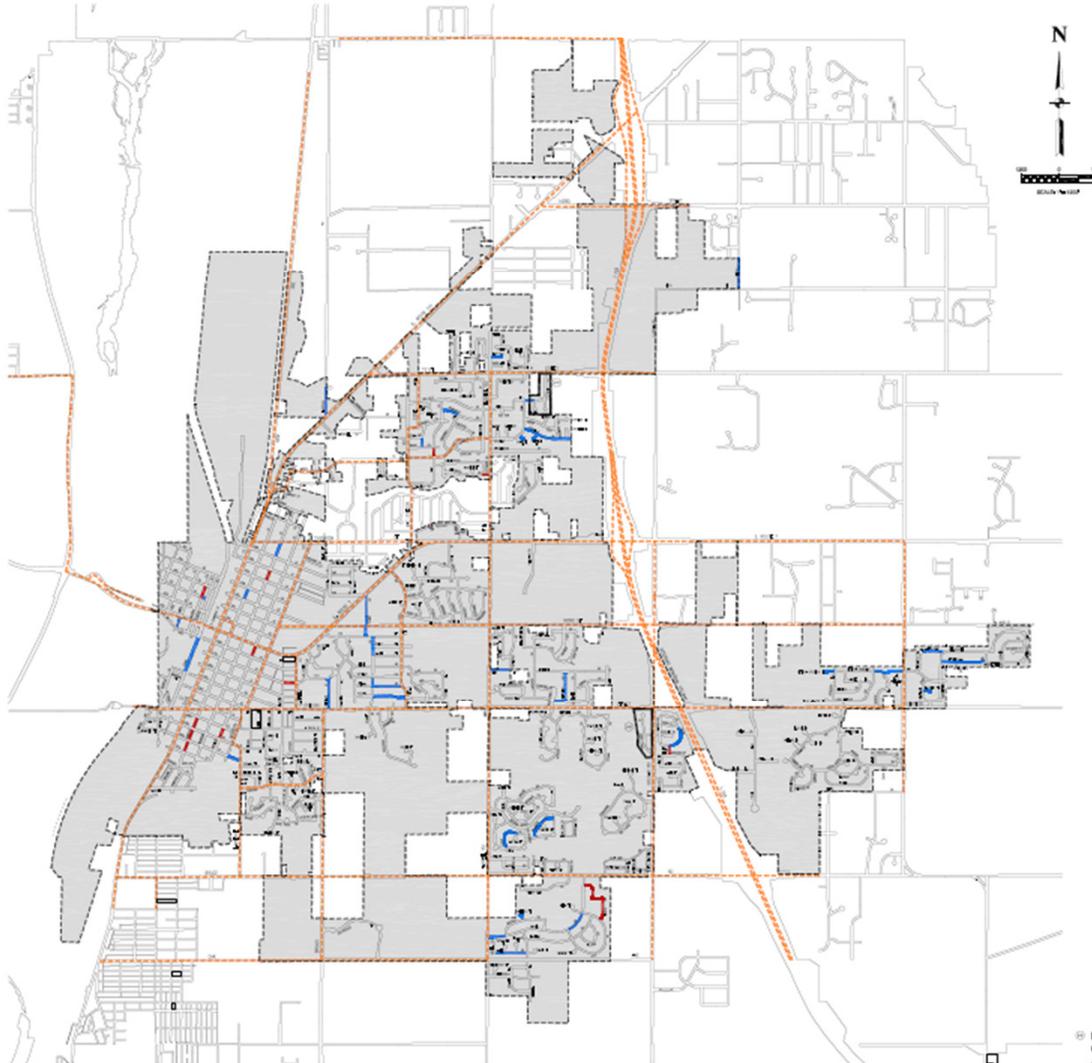
- POTENTIAL STORM SEWER
- ⊗ FIELD SUBMSSION AND PUEBLO POINTE SUBMSSION CONSIDERED FOR MILL AND RESURFACE UNDER AGREEMENT WITH HOMER TOWNSHIP
- UNSEWER AREAS WILL NEED ADDITIONAL STORM SEWER TO CREATE OUTLET



Pavement Management Optimization

CITY of LOCKPORT

YEAR 2015-2017 - BUDGET: \$4,200,000



- LEGEND**
- MILL AND RESURFACE
 - REHABILITATION / RECONSTRUCT
 - CRACK SEALING AND PATCHING (AS DIRECTED BY CITY) - \$85,000
 - - - - - FAU/FAFAP ROUTES
 - ▭ CITY LIMITS

MILL AND RESURFACE		
Route	Start	End
1. 11TH ST	WILSON ST	WILSON ST
2. 12TH ST	WILSON ST	WILSON ST
3. 13TH ST	WILSON ST	WILSON ST
4. 14TH ST	WILSON ST	WILSON ST
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37. 47TH ST	WILSON ST	WILSON ST
38. 48TH ST	WILSON ST	WILSON ST
39. 49TH ST	WILSON ST	WILSON ST
40. 50TH ST	WILSON ST	WILSON ST
41. 51ST ST	WILSON ST	WILSON ST
42. 52ND ST	WILSON ST	WILSON ST
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47. 57TH ST	WILSON ST	WILSON ST
48. 58TH ST	WILSON ST	WILSON ST
49. 59TH ST	WILSON ST	WILSON ST
50. 60TH ST	WILSON ST	WILSON ST
51. 61ST ST	WILSON ST	WILSON ST
52. 62ND ST	WILSON ST	WILSON ST
53. 63RD ST	WILSON ST	WILSON ST
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63. 73RD ST	WILSON ST	WILSON ST
64. 74TH ST	WILSON ST	WILSON ST
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66. 76TH ST	WILSON ST	WILSON ST
67. 77TH ST	WILSON ST	WILSON ST
68. 78TH ST	WILSON ST	WILSON ST
69. 79TH ST	WILSON ST	WILSON ST
70. 80TH ST	WILSON ST	WILSON ST
71. 81ST ST	WILSON ST	WILSON ST
72. 82ND ST	WILSON ST	WILSON ST
73. 83RD ST	WILSON ST	WILSON ST
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75. 85TH ST	WILSON ST	WILSON ST
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REHABILITATION / RECONSTRUCT		
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89. 99TH ST	WILSON ST	WILSON ST
90. 100TH ST	WILSON ST	WILSON ST

FIELD SUBMISSION AND PUEBLO PONTE SUBDIVISION CONSIDERED FOR MILL AND RESURFACE UNDER AGREEMENT WITH HOMER TOWNSHIP



Pavement Management Optimization

2013 Roadway Program Proposed Timeline

- LEGEND**
- █ MILL AND RESURFACE
 - █ REHABILITATION / RECONSTRUCT
 - CRACK SEALING AND PATCHING (AS DIRECTED BY CITY) • \$60,000
 - - - FALL/FALP ROUTES
 - ▭ CITY LIMITS

ESTIMATED STORM SEWER COSTS PER B&W REPORT (NOT CURRENTLY BUDGETED)	
E 3RD ST •	\$121,000
E 6TH ST •	\$132,500
E, FRANKLIN •	\$92,000***
E, MORGAN •	\$145,000***
N, JEFFERSON •	\$124,000***
S, MUEHL •	\$127,900
E, 4TH •	\$328,300

✓ Bid Resurfacing and Reconstruction Separately

✓ Resurfacing:

✓ Field Work – topography & final quantities (3 weeks)

✓ Prepare Bid Documents for Resurfacing (4 weeks)

✓ Publish Notice - 6 weeks from Notice to Proceed

✓ Bid Opening – 8 weeks from Notice to Proceed

✓ Construction in Spring-Summer 2013

MILL AND RESURFACE

Station	Station	Station
0+00	0+00	0+00
0+10	0+10	0+10
0+20	0+20	0+20
0+30	0+30	0+30
0+40	0+40	0+40
0+50	0+50	0+50
0+60	0+60	0+60
0+70	0+70	0+70
0+80	0+80	0+80
0+90	0+90	0+90
1+00	1+00	1+00
1+10	1+10	1+10
1+20	1+20	1+20
1+30	1+30	1+30
1+40	1+40	1+40
1+50	1+50	1+50
1+60	1+60	1+60
1+70	1+70	1+70
1+80	1+80	1+80
1+90	1+90	1+90
2+00	2+00	2+00
2+10	2+10	2+10
2+20	2+20	2+20
2+30	2+30	2+30
2+40	2+40	2+40
2+50	2+50	2+50
2+60	2+60	2+60
2+70	2+70	2+70
2+80	2+80	2+80
2+90	2+90	2+90
3+00	3+00	3+00
3+10	3+10	3+10
3+20	3+20	3+20
3+30	3+30	3+30
3+40	3+40	3+40
3+50	3+50	3+50
3+60	3+60	3+60
3+70	3+70	3+70
3+80	3+80	3+80
3+90	3+90	3+90
4+00	4+00	4+00
4+10	4+10	4+10
4+20	4+20	4+20
4+30	4+30	4+30
4+40	4+40	4+40
4+50	4+50	4+50
4+60	4+60	4+60
4+70	4+70	4+70
4+80	4+80	4+80
4+90	4+90	4+90
5+00	5+00	5+00
5+10	5+10	5+10
5+20	5+20	5+20
5+30	5+30	5+30
5+40	5+40	5+40
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5+80	5+80	5+80
5+90	5+90	5+90
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19+10	19+10	19+10
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19+90	19+90	19+90
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20+20	20+20	20+20
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25+80	25+80	25+80
25+90	25+90	25+90
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26+10	26+10	26+10
26+20	26+20	26+20
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26+90	26+90	26+90
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27+10	27+10	27+10
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32+60	32+60	32+60
32+70	32+70	32+70
32+80	32+80	32+80
32+90	32+90	32+90
33+00	33+00	33+00
33+10	33+10	33+10
33+20	33+20	33+20
33+30	33+30	33+30
33		

2013 Roadway Program Proposed Timeline

✓ Bid Resurfacing and Reconstruction Separately

✓ Rehabilitation - Reconstruction:

✓ Field Work – topography (4 weeks)

✓ Roadway Design (8 weeks)

✓ Prepare Bid Documents (4 weeks)

✓ Publish Notice - 12 weeks from Notice to Proceed

✓ Bid Opening – 14 weeks from Notice to Proceed

✓ Construction in Summer-Fall 2013

- LEGEND**
- █ MILL AND RESURFACE
 - █ REHABILITATION / RECONSTRUCT
 - CRACK SEALING AND PATCHING
(AS DIRECTED BY CITY) • \$60,000
 - FALL/FALP ROUTES
 - ▭ CITY LIMITS

ESTIMATED STORM SEWER COSTS PER B&W REPORT (NOT CURRENTLY BUDGETED)	
E 3RD ST •	\$121,000
E, 6TH ST •	\$132,500
E, FRANKLIN •	\$92,000***
E, MORGAN •	\$145,000***
N, JEFFERSON •	\$124,000***
S, MUEHL •	\$127,900
E, 4TH •	\$328,300

MILL AND RESURFACE		
Station	Start	End
0+00	0+00	0+00
0+05	0+05	0+05
0+10	0+10	0+10
0+15	0+15	0+15
0+20	0+20	0+20
0+25	0+25	0+25
0+30	0+30	0+30
0+35	0+35	0+35
0+40	0+40	0+40
0+45	0+45	0+45
0+50	0+50	0+50
0+55	0+55	0+55
0+60	0+60	0+60
0+65	0+65	0+65
0+70	0+70	0+70
0+75	0+75	0+75
0+80	0+80	0+80
0+85	0+85	0+85
0+90	0+90	0+90
0+95	0+95	0+95
1+00	1+00	1+00
1+05	1+05	1+05
1+10	1+10	1+10
1+15	1+15	1+15
1+20	1+20	1+20
1+25	1+25	1+25
1+30	1+30	1+30
1+35	1+35	1+35
1+40	1+40	1+40
1+45	1+45	1+45
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1+70	1+70	1+70
1+75	1+75	1+75
1+80	1+80	1+80
1+85	1+85	1+85
1+90	1+90	1+90
1+95	1+95	1+95
2+00	2+00	2+00
2+05	2+05	2+05
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2+20	2+20	2+20
2+25	2+25	2+25
2+30	2+30	2+30
2+35	2+35	2+35
2+40	2+40	2+40
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2+55	2+55	2+55
2+60	2+60	2+60
2+65	2+65	2+65
2+70	2+70	2+70
2+75	2+75	2+75
2+80	2+80	2+80
2+85	2+85	2+85
2+90	2+90	2+90
2+95	2+95	2+95
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3+55	3+55	3+55
3+60	3+60	3+60
3+65	3+65	3+65
3+70	3+70	3+70
3+75	3+75	3+75
3+80	3+80	3+80
3+85	3+85	3+85
3+90	3+90	3+90
3+95	3+95	3+95
4+00	4+00	4+00
4+05	4+05	4+05
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4+15	4+15	4+15
4+20	4+20	4+20
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4+80	4+80	4+80
4+85	4+85	4+85
4+90	4+90	4+90
4+95	4+95	4+95
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15+95	15+95	15+95
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16+05	16+05	16+05
16+10	16+10	16+10
16+15	16+15	16+15
16+20	16+20	16+20
16+25	16+25	16+25
16+30	16+30	16+30
16+35	16+35	16+35
16+40	16+40	16+40
16+45	16+45	16+45
16+50	16+50	16+50
16+55	16+55	16+55
16+60	16+60	16+60
16+65	16+65	16+65
16+70	16+70	16+70
16+75	16+75	16+75
16+80	16+80	16+80
16+85	16+85	16+85
16+90	16+90	16+90
16+95	16+95	16+95
17+00	17+00	17+00
17+05	17+05	17+05
17+10</		