City Projects – Concepts, Costing & Construction

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NDLC Annual Conference, Fargo – Sept 29, 2017
IMPROVEMENTS BY SPECIAL ASSESSMENT – PROCESS CHECKLIST

___ Create the improvement district by resolution (40-22-08)
___ Direct the engineer to prepare the Engineer’s Report (40-22-10)
___ Approve the Engineer’s Report (40-22-11)
___ Adopt a Resolution of Necessity (except water or sewer or petition of majority) (40-22-15)
___ Publish Resolution of Necessity 1 per week for 2 weeks
___ 30 days to file protests after date of first publication
___ Hearing at next meeting to determine sufficiency of protests and a majority of area protesting is bar to proceeding
___ Direct engineer to prepare detailed plans and specifications (40-22-11)
___ Approve plans and specifications and file with city auditor (40-22-11 and 14)
___ Direct city auditor to advertise for bids (40-22-19 and 48-10.1-03) in official newspaper and in a trade publication
___ Publish ad for bids 1 per week for 2 weeks (40-22-19 and 48-01.1.03)
___ Bid opening not less than 14 days after first publication (49-01.1-03)
___ Determination as to type of paving if applicable (40-22-28)
___ Bidders’ bond (5%) and contractor’s license required (48-01.1-05)
___ Bids entered on minutes and referred to engineer for statement of estimates costs (40-22-29)
___ Accept bid and award contract (unless more than 40% over estimate) or reject all bids (48-01.1-07)
___ Bond required for performance and payment (48-02-06.2)
___ Construction Contract (40-22-35 and 36)
___ Issue improvement warrants/bonds (40-24-19)

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moore engineering, inc.

09-26-17
Americans with Disabilities Act

ADA Guide for Small Towns

A guide for small local governments including towns, townships, and rural counties.
ROUGH - City Estimating Info

Crack Seal – $1,000/block (range $500 - $1,500/block)
Chip Seal - $6,000/block
Edge Mill & Asphalt Overlay - $20,000/block
Thin Lift Overlay - $12,000/block
Curb & Gutter - $25,000/block
Full Depth Asphalt - $80,000/block
Full Depth Concrete - $140,000/block
Aggregate Base - $10,000/block
Sanitary Sewer - $35,000/block
Water Main - $30,000/block
Storm Sewer - $50,000/block
Subgrade Earthwork - $8,000/block
Geogrid – $7,000/block

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*Costs are offered to evaluate system general costs and are not meant to provide project development data. Costs are highly variable and dependent on factors such as width of street, type of street, quantities, size of project, timing of bids/work, location and competition between contractors! Data is a culmination of UGPTI, NDLTAP, Moore Engineering and Advanced Engineering data sets.

Budget estimates assume city block = 400 ft (5,280 ft/mile => 13 blocks per mile).

Contact your consulting engineer for project development estimates.
## Average Construction Costs - 2016

<table>
<thead>
<tr>
<th>Improvement</th>
<th>Total Dollars/Mile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Interstate seal coat (by contract)</td>
<td>$35,000</td>
</tr>
<tr>
<td>Interstate seal coat (by contract)</td>
<td>$55,000</td>
</tr>
<tr>
<td>Thin lift overlay</td>
<td>$180,000</td>
</tr>
<tr>
<td>3” asphalt overlay</td>
<td>$320,000</td>
</tr>
<tr>
<td>Asphalt surfacing reconstruction</td>
<td>$1,100,000</td>
</tr>
<tr>
<td>(includes subgrade repair and resurfacing)</td>
<td></td>
</tr>
<tr>
<td>Total reconstruction</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>(includes grading and asphalt surfacing)</td>
<td></td>
</tr>
<tr>
<td>Interstate concrete paving</td>
<td>$2,400,000</td>
</tr>
<tr>
<td>(two lanes in one direction)</td>
<td></td>
</tr>
</tbody>
</table>

North Dakota DOT 2016 Data
# Flexible Pavement Condition Survey Rating Form (Urban)

**City:**

**County:**

**Street ID:**

**Location From:**

**To:**

**Date:**

## Ride Condition Rating

<table>
<thead>
<tr>
<th>RIDE CONDITION</th>
<th>10 (Excellent)</th>
<th>9</th>
<th>8 (Good)</th>
<th>7 (Fair)</th>
<th>6 (Poor)</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0</th>
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</thead>
<tbody>
<tr>
<td>RATING</td>
<td>x</td>
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</table>

**Deduct Value:**

-3.0

## Pavement Distress Conditions

<table>
<thead>
<tr>
<th>Pavement Distress Conditions</th>
<th>Slight</th>
<th>Moderate</th>
<th>Severe</th>
<th>Low 0-10%</th>
<th>Intermediate 10-25%</th>
<th>Frequent &gt;25-50%</th>
<th>Extensive &gt;50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Defects</td>
<td>Raveling/Weathering</td>
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<tr>
<td></td>
<td>Flushing/Bleeding</td>
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<td>x</td>
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<tr>
<td></td>
<td>Potholes/Patching</td>
<td>x</td>
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<tr>
<td>Surface Deformations</td>
<td>Shoving/Rutting</td>
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<td></td>
<td>Distortions</td>
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<td>Utility Trenches</td>
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<td>Cracking</td>
<td>Alligator</td>
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<td>Longitudinal</td>
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<td>Transverse</td>
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<td>Block</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Edge Pvm. / C &amp; G</td>
<td>x</td>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Final Surface Condition Rating = 66.0**

**Chad Petersen – 701-845-9446**

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