Street Pavement Preservation

February 27, 2018
Past Pavement Preservation

Chip Seal Surface Treatment
Problems and Concerns
Evolving Trends and Options

Reclamite® - Maltene Based Rejuvenator
Maltene Rejuvination

• Adds Maltenes Fractions back into Asphalt Surface
  – Penetrates top ½” to 3/8” of pavement
  – Becomes “part” of the pavement
  – “In Depth Seal”
  – Increases Flexibility & Durability
  – Decreases Brittleness

• Seals Surface

• Closes Surface Voids

• Increases Pavement Life 5 to 7 yrs
Application

Limestone screenings applied for traction and swept up 24 hours later.
Evolving Trends and Options
After 25 Days

25 Days after Reclamite Application
After 4 Years

Treated

Untreated
Rain/Snow Impact

Rain Event

Untreated Side

Treated Side

Snow Event

Treated Side

Untreated Side
<table>
<thead>
<tr>
<th>Year</th>
<th>Total Budget</th>
<th>Actual Concrete</th>
<th>Actual Mill &amp; Overlay</th>
<th>Actual Chip Seal</th>
<th>Balance</th>
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</thead>
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<tr>
<td>2014</td>
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<td>$896,000</td>
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## 6-Yr Mill and Overlay

### M&O - Midway Status Update

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Dollars and “Sense”

- Maltene Rejuvenator over 3-4 years
  - 2018: 2015/2016 M&O Areas (Funded*)
  - 2021: 2019/2020 M&O Areas

- Evaluate performance over time and study results

- Restorative seal vs chip seal at around 10\textsuperscript{th} year of life
  - 5 years later than previous program
Staff Recommendation

• Maltene Rejuvenator over 3-4 years
• Evaluate performance over time
• Restorative seal vs chip seal at year 10-ish?
Questions?
Station Furnishings
66th Street Station
International Blvd Station (76th St)
International Blvd Station (76th St)

Station Layout
International Blvd Station (76th St)
Southbound Station
I-494 Crossing

Knox Avenue Transitway
77th Street East Extension and TH 77
Bridge Aesthetic Concepts

Legend:
- Gateway facades and wingwalls
- Internal facades and wing walls
- Abutments and Walls
77th Street East Extension and TH 77
Bridge Aesthetic Concepts
Concept 1 - Ashlar Blend

Typical Gateway Elevation - (View 1)

Design:
- 4 wide vertical columns
- Pronounced caps on top of vertical columns
- Continuous concrete band on columns and abutments
- Concrete texture applied to abutments will also be applied to retaining walls.
- 3 formliner textures
- Ornamental metal (black) railing on top of retaining wall

Typical Abutment and Wall Treatment

Typical Abutment Treatment

Graphic Scale

Richfield

WSB

761 South Avenue South, Suite 500
Minneapolis, MN 55419
www.wsbltd.com
Project #15137-420
February 21st, 2019

Bridge Aesthetic Concepts
77th Street East Extension and TH 77
Bridge Aesthetic Concepts
Concept 1 - Ashlar Blend

Typical Internal Elevation - (View 2)
77th Street East Extension and TH 77
Bridge Aesthetic Concepts
Concept 1 - Ashlar Blend Night Rendering

Typical Gateway Elevation - (View 1)

A) Typical Abutment and Wall Treatment
B) Typical Abutment Treatment

Graphic Scale
77th Street East Extension and TH 77
Bridge Aesthetic Concepts
Concept 2 - Mankato Cut Stone and Fluted Rib

Typical Gateway Elevation - (View 1)

A) Typical Abutment and Wall Treatment

B) Typical Abutment Treatment

Smooth Concrete
Color No. 25630
Light Gray

Mankato Cut Stone
Formliner

3/4" Deep Rib
Formliner

Contemporary Down-Lit
Light Fixture (Black)
77th Street East Extension and TH 77
Bridge Aesthetic Concepts

Concept 2 - Mankato Cut Stone and Fluted Rib

Design:
- 2" wide vertical columns
- Single flastone texture on retaining walls
77th Street East Extension and TH 77
Bridge Aesthetic Concepts
Concept 3 - Cut Stone and Smooth Finish

Typical Gateway Elevation - (View 1)

A) Typical Abutment and Wall Treatment

B) Typical Abutment Treatment

Design:
- Aesthetics of bridge to mimic the 35W/TH 62 bridge over Lyndale Avenue

Richfield

WSB

781 Kent Avenue South, Suite 500
Minneapolis, MN 55408
www.wsbinc.com
Project #15101422
February 21st, 2019