VILLAGE OF RIVERTON

Infrastructure Study
Scope of water system improvements
Lincoln Street
Install new 6” watermain and services
From 3rd Street to Route 36

$470,000
WATER

Lincoln Street to Washington Street
Via Turney Street
Install new 6” watermain

Lincoln Street to Washington Street
Via Route 36
Install new 10” watermain

$27,000

$54,000
3rd Street from South 4th Street to Menard Street

Install new 6” watermain and services

$340,000
3rd Street from Menard Street to the S-curve
Install new 6” watermain and services

$198,000
**WATER**

- **Adams Street from 3rd Street to 7th Street**
  - Install new 8” watermain and services
  - Cost: $138,000

- **Washington Street from 3rd Street to 7th Street**
  - Install new 6” watermain and services
  - Cost: $130,000
Northeast corner of Lyons Street and East Raylots Street

Construct new water tower

$1,000,000
WATER

Proposed water system improvements and preliminary construction costs

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installing additional water tower</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Auto read meters</td>
<td>$900,000</td>
</tr>
<tr>
<td>Painting existing water tower at school</td>
<td>$250,000</td>
</tr>
<tr>
<td>Painting existing water tower at apartments</td>
<td>$400,000</td>
</tr>
<tr>
<td>Installing additional well</td>
<td>$450,000</td>
</tr>
<tr>
<td>Removing old tank at water treatment plant</td>
<td>$20,000</td>
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<tr>
<td>Salt brine tank at water treatment plant</td>
<td>$100,000</td>
</tr>
<tr>
<td>Replace/Additional reaction tank at water treatment plant</td>
<td>$140,000</td>
</tr>
<tr>
<td>Total preliminary construction cost</td>
<td>$4,617,000</td>
</tr>
</tbody>
</table>

Lincoln Street from 3rd Street to Route 36                                          $470,000
Lincoln Street from Washington Street via Route 36                                   $54,000
Lincoln Street from Washington Street via Turney Street                              $27,000
3rd Street from South 4th Street to Menard Street                                    $340,000
3rd Street from Menard Street north to the S-curve                                   $198,000
Adams Street from 3rd Street to 7th Street                                           $138,000
Washington Street from 3rd Street to 7th Street                                      $130,000
SANITARY SEWER

Scope of sanitary sewer system improvements
SANITARY SEWER
Riviera Subdivision

Total Scope
Repair / replace sanitary sewer, mill & overlay existing roadway, partial replacement of concrete gutter where necessary

$713,000
SANITARY SEWER
Riviera Subdivision

Phase 1
Mill entire asphalt surface 2” depth
SANITARY SEWER
Riviera Subdivision

Phase 2

Sawcut, remove pavement and excavate for trench. Remove existing sanitary sewer and manholes and install new sewer and manholes simultaneously (live conditions). Backfill trench and cap with CA-6 and hot-mix asphalt binder.
SANITARY SEWER
Riviera Subdivision

Phase 3
Replace concrete gutter sections where necessary, overlay entire surface with 2" hot-mix asphalt.
SANITARY SEWER
Ivy Hills Subdivision

Total Scope
Repair / replace sanitary sewer, mill & overlay existing roadway, partial replacement of concrete gutter where necessary

$418,000
SANITARY SEWER
Ivy Hills Subdivision

Phase 1
Mill entire asphalt surface 2” depth
Phase 2

Sawcut, remove pavement and excavate for trench. Remove existing sanitary sewer and manholes and install new sewer and manholes simultaneously (live conditions). Backfill trench and cap with CA-6 and hot-mix asphalt binder.
SANITARY SEWER
Ivy Hills Subdivision

Phase 3
Replace concrete gutter sections where necessary, overlay entire surface with 2" hot-mix asphalt.
SANITARY SEWER
8\textsuperscript{th} Street Extension

Total Scope
Extend existing sanitary sewer south, install new lift station and forcemain.

$262,000
SANITARY SEWER
8th Street Extension

Phase 1
Install new lift station north of Old Rte 36, and new forcemain west along Old Rte 36 and north on 8th Street.
SANITARY SEWER
8th Street Extension

Phase 2

Install new sanitary sewer south on 8th Street and along Old Rte 36 to new lift station.

Backfill trenches. Cap with CA-6 and seal coat in roadway. Seed all disturbed ground.
SANITARY SEWER
Lydia Lane

Total Scope
Construct new sanitary sewer south to new lift station at Old Rte 36.

$156,000
SANITARY SEWER
Lydia Lane

Phase 1
Mill entire asphalt surface 2” depth
SANITARY SEWER
Lydia Lane

Phase 2
Sawcut, remove pavement and excavate for trench. Install new sewer and manholes to new lift station. Backfill trench and cap with CA-6 and hot-mix asphalt binder. Seed all disturbed ground.
SANITARY SEWER
Lydia Lane

Phase 3
Replace concrete gutter sections where necessary, overlay entire surface with 2" hot-mix asphalt.
<table>
<thead>
<tr>
<th>Proposed sanitary sewer system improvements and preliminary construction costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dredging of the existing sewer lagoon</td>
</tr>
<tr>
<td>Repair / Replace sewer in Riviera Subdivision (Mill &amp; Overlay)</td>
</tr>
<tr>
<td>Repair / Replace sewer in Ivy Hills Subdivision (Mill &amp; Overlay)</td>
</tr>
<tr>
<td>Extend sewer south on Lydia Lane</td>
</tr>
<tr>
<td>Extend sewer south on 8th Street (including lift station &amp; force main)</td>
</tr>
<tr>
<td><strong>Total preliminary construction cost</strong></td>
</tr>
</tbody>
</table>
RECONSTRUCTION, WATER & SANITARY SEWER

Lucky Horseshoe Subdivision

Total Scope

Install new sanitary sewer and services, new 6" watermain and services.

Mill & overlay existing roadway, partial replacement of concrete gutter where necessary. Install new storm sewer segments to improve drainage.

$1,418,000

* There are outstanding legal issues with respect to who owns the infrastructure and maintenance responsibilities that need to be resolved before this project could be initiated.
RECONSTRUCTION, WATER & SANITARY SEWER

Lucky Horseshoe Subdivision

Phase 1
Mill entire asphalt surface 2” depth

* There are outstanding legal issues with respect to who owns the infrastructure and maintenance responsibilities that need to be resolved before this project could be initiated.
RECONSTRUCTION, WATER & SANITARY SEWER

Lucky Horseshoe Subdivision

Phase 2

Sawcut, remove pavement and excavate for trench. Install new sewer and manholes in roadway. Backfill trench and cap with CA-6 and hot-mix asphalt binder.

Plug and abandon existing sanitary sewers and manholes in place.

* There are outstanding legal issues with respect to who owns the infrastructure and maintenance responsibilities that need to be resolved before this project could be initiated.
RECONSTRUCTION, WATER & SANITARY SEWER

Lucky Horseshoe Subdivision

Phase 3
Install new storm sewer and inlets.

* There are outstanding legal issues with respect to who owns the infrastructure and maintenance responsibilities that need to be resolved before this project could be initiated.
RECONSTRUCTION, WATER & SANITARY SEWER

Lucky Horseshoe Subdivision

Phase 4

Install new 6” watermain along streets outside of concrete gutter.

Abandon existing watermain in place.

* There are outstanding legal issues with respect to who owns the infrastructure and maintenance responsibilities that need to be resolved before this project could be initiated.
RECONSTRUCTION, WATER & SANITARY SEWER

Lucky Horseshoe Subdivision

Phase 5

Replace concrete gutter sections where necessary, overlay entire surface with 2" hot-mix asphalt.

* There are outstanding legal issues with respect to who owns the infrastructure and maintenance responsibilities that need to be resolved before this project could be initiated.
RECONSTRUCTION & SANITARY SEWER

5th Street – Railroad to Menard Street

Total Scope

Remove existing sanitary sewer and manholes. Install new sanitary sewer, manholes and service connections.

Mill & overlay existing roadway, partial replacement of concrete gutter where necessary.

Reconstruct and reprofile approximately 200’ of existing street north of railroad to correct drainage problem.

$521,000
RECONSTRUCTION & SANITARY SEWER

5th Street – Railroad to Menard Street

Phase 1

Mill asphalt surface 2” depth from Menard Street to area to be repaved.

Total removal of existing pavement, curb & gutter and sidewalk in 200’ area to be repaved.
RECONSTRUCTION & SANITARY SEWER

5th Street – Railroad to Menard Street

Phase 2

Sawcut, remove pavement and excavate for trench. Remove existing sanitary sewer and manholes and install new sewer and manholes simultaneously (live conditions). Backfill trench and cap with CA-6 and hot-mix asphalt binder.
RECONSTRUCTION & SANITARY SEWER

Phase 3

Remove existing steel pipe under sidewalk north of railroad. Install new manhole on east end of existing cross road culvert, and install new, longer pipe culvert under sidewalk.

Reprofile and reconstruct 200’ of street north of railroad with new aggregate base, curb and gutter, sidewalk, hot-mix asphalt binder course, and partial driveway pavement replacement.

5th Street – Railroad to Menard Street
Phase 4

Replace concrete gutter sections where necessary, overlay entire surface with 2” hot-mix asphalt.
# COST SUMMARY

<table>
<thead>
<tr>
<th>All Capital Improvement Projects</th>
<th></th>
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<tbody>
<tr>
<td>Water</td>
<td>$4,617,000</td>
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<tr>
<td>Sanitary Sewer</td>
<td>$2,884,000</td>
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<tr>
<td>Lucky Horseshoe Subdivision</td>
<td>$1,418,000</td>
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<tr>
<td>5th Street Reconstruction</td>
<td>$521,000</td>
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<td><strong>Subtotal</strong></td>
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<tr>
<td>10% Contingencies</td>
<td>$944,000</td>
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<tr>
<td>8% Design Engineering</td>
<td>$831,000</td>
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<tr>
<td>8% Construction Engineering</td>
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<tr>
<td><strong>Total construction cost</strong></td>
<td><strong>$12,046,000</strong></td>
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VILLAGE OF RIVERTON

Infrastructure Study

QUESTIONS?