CITY OF ITHACA
PROJECT INFORMATION PAMPHLET
FOR
BIN 2210420
SOUTH ALBANY STREET OVER SIX MILE CREEK
BRIDGE REPLACEMENT PROJECT
GENERAL:

The South Albany Street Bridge Replacement project is in the preliminary design phase. The project is being federally funded through the National Highway Performance Program (NHPP) and requires adherence to NYSDOT Local Project Manual (LPM). Outreach to the public is required during the preliminary design phase of the project to present the proposed project and allow interested parties to comment on the proposed work. This pamphlet is being provided to present information regarding this proposed City of Ithaca bridge replacement project.

The City welcomes questions and comments on the project information provided. Contact information for providing comments is provided within this pamphlet.

PROJECT LOCATION:

A. ROUTE NAME: South Albany Street  
B. BIN (Bridge ID #): 2210420  
C. FEATURE CROSSED: Six Mile Creek  
D. CITY: Ithaca  
E. COUNTY: Tompkins  
F. PROJECT LENGTH: 310 (+/-)

LOCATION MAP – SOUTH ALBANY STREET OVER SIX MILE CREEK

PROJECT NEED:

The need for this project is to improve the City’s infrastructure with the replacement of the existing South Albany Street Bridge over Six Mile Creek. The South Albany Street bridge links the primarily residential area south of the bridge to the residences, churches and businesses located to the north.
The bridge is in deteriorated condition with pedestrian facilities that are not in compliance with current ADA and PROWAG guidelines.

PROJECT PURPOSE:

The purpose of this project is to improve existing conditions and provide a transportation corridor that promotes mobility and safe travel for all types of transportation modes and ADA compliant pedestrian facilities.

PROJECT OBJECTIVES:

(1) Replace the existing bridge with a new structure that has a 75-year design service life.  
(2) Address geometric deficiencies to improve traffic flow and facilitate traffic operations.  
(3) Provide a cost-effective design solution that minimizes life cycle cost maintenance and repair costs.

ALTERNATIVES EVALUATED:

Reasonable Alternatives

No Build (Null Alternative):

The Null Alternative would maintain the current structure on South Albany Street. No improvements would be made, and the structure would require increased maintenance and eventual closure to traffic, resulting in a break in travel along the South Albany Street corridor. As a result, this alternative would not achieve the project objectives and has been removed from further consideration.

Alternative A – Bridge Replacement (2 - 13’ Shared Travel Lanes):

Bridge Replacement - Alternative A will replace the existing bridge with a new 85-foot, single span structure consisting of two 13-foot shared travel lanes (to accommodate both vehicles and bicycles) and new sidewalks on both sides of the bridge. The bridge will be closed to vehicle traffic during construction with the use of an off-site signed detour for vehicles and pedestrians. New curb ramps will be installed at the North and South Titus Avenue intersections, and drainage improvements will also be incorporated to reduce existing ponding issues in the project area. This alternative satisfies the project objectives listed above.

Alternative B – Bridge Replacement (2 - 11’ Travel Lanes and 5’ Shoulders):

Bridge Replacement - Alternative B will replace the existing bridge with a new 85-foot, single span structure consisting of two 11-foot travel lanes with 5-foot shoulders (bike lanes) and new sidewalks on both sides of the bridge. The bridge will be closed to vehicle traffic during construction with the use of an off-site signed detour for vehicles and pedestrians). New curb ramps will be installed at the North and South Titus Avenue intersections, and drainage improvements will also be incorporated to reduce existing ponding issues in the project area. This alternative satisfies the project objectives.
Alternatives Found to be Not Reasonable:

Bridge Rehabilitation:

A rehabilitation alternative was investigated and would include full superstructure replacement of the existing non-redundant steel two-girder superstructure on the existing abutments. No record plans are available for the existing abutments or flood wall. Therefore, based on the unknown load carrying capacity of the existing substructure coupled with their advanced age this alternative was not considered further.

PREFERRED ALTERNATIVE:

Two reasonable build alternatives have been identified that meet the project objectives. A final decision on the preferred alternative will not be made until after the environmental determination and evaluation of the comments on the draft design approval document and comments received from the public outreach process is completed.

PROJECT SCHEDULE:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date Occurred/Tentative</th>
</tr>
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<tbody>
<tr>
<td>Design Approval</td>
<td>July 2021</td>
</tr>
<tr>
<td>Construction Start</td>
<td>May 2022</td>
</tr>
<tr>
<td>Construction Complete</td>
<td>November 2022</td>
</tr>
</tbody>
</table>

PROJECT CONSTRUCTION COST:

- Estimated Construction Cost = Alternative A - Bridge Replacement = $2.28 M
- Estimated Construction Cost = Alternative B - Bridge Replacement = $2.48 M

EXISTING/PROPOSED BRIDGE DATA

The existing and proposed structures are described below. The project proposes to replace the existing bridge with a new single span bridge on the same horizontal alignment.

<table>
<thead>
<tr>
<th>DATA</th>
<th>EXISTING STRUCTURE</th>
<th>PROPOSED STRUCTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIN</td>
<td>2210420</td>
<td>2210420</td>
</tr>
<tr>
<td>Feature Carried/Crossed</td>
<td>South Albany Street over Six Mile Creek</td>
<td>South Albany Street over Six Mile Creek</td>
</tr>
<tr>
<td>Type of Bridge</td>
<td>Non-redundant steel thru-girder with reinforced concrete deck slab on concrete abutments</td>
<td>Steel multi-beam and reinforced concrete deck slab on pile supported concrete abutments</td>
</tr>
<tr>
<td>Number and Length of Spans</td>
<td>Single span (86.3 ft.)</td>
<td>Single span (85.0 ft.)</td>
</tr>
<tr>
<td>Lane Width(s)</td>
<td>14.3 shared lane (NB)</td>
<td>14.3 shared lane (SB)</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Shoulder Width(s)</td>
<td>Included in shared lane</td>
<td>Included in shared lane (Alt. A)</td>
</tr>
<tr>
<td>Sidewalk(s)</td>
<td>5’-10” (both sides)</td>
<td>5’-5” (both sides)</td>
</tr>
<tr>
<td>Utilities Carried</td>
<td>6” Dia. gas</td>
<td>6” Dia. gas</td>
</tr>
<tr>
<td></td>
<td>8” Dia. gas</td>
<td>8” Dia. gas</td>
</tr>
<tr>
<td>Horizontal Clearance(s)</td>
<td>0’ (right side)</td>
<td>0’ both sides (Alternative A)</td>
</tr>
<tr>
<td>Freeboard</td>
<td>Negative (Q50 &amp; Q100)</td>
<td>Negative (Q50 &amp; Q100)</td>
</tr>
</tbody>
</table>

**ANTICIPATED RIGHT-OF-WAY REQUIREMENTS:**

All work will be completed within the existing City of Ithaca Right-of-Way.

**PROPOSED WORK ZONE TRAFFIC CONTROL**

The bridge will be closed to vehicular traffic during construction. Vehicular traffic will utilize a signed off-site detour using Hyers Street, South Plain Street, and Center Street. See proposed detour plans attached.

There will be a signed detour for pedestrians using South Titus Avenue, South Plain Street, and North Titus Avenue.

**ENVIRONMENTAL CLASSIFICATIONS**

- NEPA Classification: Class II (Categorical Exclusion)
- SEQRA TYPE (State): TYPE I
- CEQR TYPE (City): TYPE I

**PERMIT COORDINATION**

- USACOE AND NYSDEC

**COMMENTS:**

If you would like to comment on the project or have any questions about the project, please contact the City of Ithaca Engineering Department via email (see below):

City of Ithaca: Addisu Gebre
Project Manager
agebre@cityofithaca.org
REPLACEMENT OF SOUTH ALBANY STREET BRIDGE OVER SIX MILE CREEK

LEGEND

- CONCRETE BRIDGE DECK & APPROACH SLABS
- ASPHALT CONCRETE PAVEMENT
- CONCRETE SIDEWALKS
- GRASS AREAS
- CURB

PROPOSED PLAN - ALTERNATIVE A (SHARED LANES)
REPLACEMENT OF SOUTH ALBANY STREET BRIDGE OVER SIX MILE CREEK

LEGEND
- CONCRETE BRIDGE DECK & APPROACH SLABS
- ASPHALT CONCRETE PAVEMENT
- CONCRETE SIDEWALKS
- GRASS AREAS
- CURB

PROPOSED PLAN - ALTERNATIVE B (5'-0" BIKE LANES)

City of Ithaca
Department of Public Works
REPLACEMENT OF SOUTH ALBANY STREET BRIDGE OVER SIX MILE CREEK

PROPOSED BRIDGE ELEVATION (LOOKING UPSTREAM)

EXISTING ROADWAY

NEW DECORATIVE LIGHT (TYP.)

STONE FILLING (HEAVY) (TYP.)

PROPOSED SOUTH ABUTMENT ON PILES

APPROXIMATE EXISTING STREAM BED

WATER ELEV. 393.72

50 AND 100 YEAR (FIS) WATER ELEV. 393.72

PROPOSED LOW CHORD ELEVATION = EXISTING LOW CHORD ELEV. 393.22

TEXAS AESTHETIC BARRIER

PROPOSED CONCRETE DECK

PROPOSED APPROACH SLAB (TYP.)

PROPOSED NORTH ABUTMENT ON PILES

PROPOSED ROADWAY

EXPECTED ROADWAY

PROPOSED Bridge EXISTING ROADWAY

APPROXIMATE EXISTING STREAM BED

50 AND 100 YEAR (FIS) WATER ELEV. 393.72

* WATER SURFACE ELEVATION BASED ON FLOWS FROM 1981 FEMA FLOOD INSURANCE STUDY.
REPLACEMENT OF SOUTH ALBANY STREET BRIDGE OVER SIX MILE CREEK

EXISTING BRIDGE SECTION (LOOKING UPSTATION)

EXISTING CONDUITS (TO BE RELOCATED)
EXISTING GAS MAIN (TO BE RELOCATED)
STEEL GIRDER (TYP.)
STEEL FLOORBEAM
CONCRETE DECK
TRAVEL LANE
1'-9" 6'-8"
14'-3" 14'-3"
6'-8" 1'-9"
45'-4" OUT-TO-OUT

CONCRETE SIDEWALK (TYP.)
STEEL RAIL
STEEL SIDEWALK BRACKET (TYP.)
EXISTING GAS MAIN (TO BE RELOCATED)
REPLACEMENT OF SOUTH ALBANY STREET BRIDGE OVER SIX MILE CREEK

PROPOSED BRIDGE SECTION - ALTERNATIVE A
(LOOKING UPSTATION)
REPLACEMENT OF SOUTH ALBANY STREET BRIDGE OVER SIX MILE CREEK

PROPOSED BRIDGE SECTION - ALTERNATIVE B
(LOOKING UPSTATION)
REPLACEMENT OF SOUTH ALBANY STREET BRIDGE OVER SIX MILE CREEK

TYPICAL ROADWAY SECTION
(LOOKING UPSTATION)
REPLACEMENT OF SOUTH ALBANY STREET BRIDGE
OVER SIX MILE CREEK

LEGEND

SB → INDICATING SOUTHBOUND DETOUR TRAFFIC
NB ← INDICATING NORTHBOUND DETOUR TRAFFIC

DENOTES VEHICULAR TRAFFIC DETOUR
DENOTES PEDESTRIAN DETOUR

PROPOSED DETOUR PLAN