

RESOLUTION NO. 1476

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DAYTON, WASHINGTON,
AUTHORIZING THE MAYOR TO EXECUTE A CONTRACT FOR BRIDGE INSPECTION
SERVICES WITH ROBERT K. YATES**

WHEREAS, applicable regulations of the State of Washington require that bridges within and maintained by the City be subject to regular inspections by a qualified and certified inspector; and

WHEREAS, the City Council wishes to contract with certified lead bridge inspector Robert K. Yates to conduct required bridge inspections for the City; and

WHEREAS, the City Council finds and determines that entering into said agreement with Robert K. Yates is in the best interest of the residents of the City of Dayton and will promote the general health, safety and welfare;

**NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF DAYTON,
WASHINGTON, HEREBY RESOLVES** as follows:

Section 1. Agreement. The Mayor is authorized to execute on behalf of the City of Dayton the contract for bridge inspection services with Robert K. Yates in the form attached hereto as Exhibit "A".

Section 2. Implementation. The Mayor is hereby authorized to implement such administrative procedures as may be necessary to carry out the directions of this legislation.

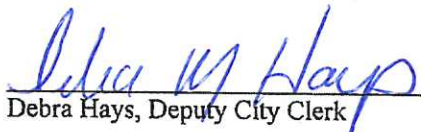
Section 3. Effective Date. That this resolution shall take effect and be in full force upon passage and signatures hereon.

Dated and signed this 20TH day of July, 2021.

CITY OF DAYTON


Zac Weatherford, Mayor

Attest/Authenticate:


Debra Hays, Deputy City Clerk

Approved as to Form:


Quinn Plant, City Attorney

To: The Honorable Mayor
Zac Weatherford
City of Dayton

From: Robert K. Yates
NBI Lead Inspector B1110

Subject: City of Dayton's, National Bridge Inventory, 2021 Bridge Inspection for;
Dayton #1, Front Street over Patit Creek
Dayton #3, N. First Street over Patit Creek
Dayton #4, N. Third Street over Patit Creek
Dayton #5, N. Sixth Street over Patit Creek

Honorable Mayor;

The above four (4) City of Dayton bridges are due for their biannual inspections during this upcoming month of August 2021.

I have had the honor of being the Lead Inspector of Record for the last 5 biannual inspections starting in 2011 and inspected your bridges in the early 2000's and lastly, I have been involved in some of the inspections, their status and conditions since the late 1980's. Hence, my familiarity with your bridges is unmatched.

I am and have been a Certified Lead Bridge Inspector since 1991. My ability and authority to perform your biannual inspections and to satisfy both state and federal requirements is complete.

My certified authority is through WSDOT's Local Programs Bridge Engineer / Program Manager, Sonia Lowry, P.E., (360) 705-7870 @ sonia.lowry@wsdot.wa.gov Please feel free to contact Sonia as to my Certifications and Legal Authority to perform your bridge inspections.

During my tenure with Columbia County from 1986 to 2019 I oversaw the construction inspection, contract management etc. and was at least partially involved in well over 35 new bridges being constructed along with dozens of large culverts and other structure throughout Columbia County and within the City of Dayton. I have also inspected the County's 62-plus bridges since the late 80's.

If I am hired by the City of Dayton, I shall perform your field inspections this August of 2021, submit/complete the required Fed/State database entries and then supply the reports with all pertinent items with copies to you.

For 2019's inspection of your bridges, I was hired by Columbia County to do your inspections. My report to and through the County Engineer may or may not have reached you or your staff.

For my previous inspections I have scheduled with Jim or Dave or their appointee to accompany me so the City would have firsthand knowledge of issues.

ATTACHMENTS:

I do have the 2019's inspection letter I drafted for the County Engineer, without attachments, for your purview and I have attached an unsigned copy hereto. I apologize if 2019's report and possibly other past reports might not have been transmitted to the City of Dayton by the County. I had no control of that.

I have also attached an April of 2011 unsigned copy of a former Columbia County Engineer's letter to the City of Dayton stating that the County would be happy to inspect your bridges on cycle for less than \$2,500 per cycle. I am unsure if this letter was transmitted and or if the County ever billed the city for any of my inspections.

Columbia County's 2013 Bridge Report to the City of Dayton.

Note: Your bridge files remain in safe keeping within the County Engineer's fire-resistant vault which are accessible by me or other authorized personnel.

A side note would be that "IF" my inspections show new structural issues beyond my expertise to analyze, I would inform the City for the City to have a Professional Structural Engineer review and or study any such issue found by me. Such would be outside of any contract with me.

If hired by the City of Dayton, I would perform the inspections, database completion and reporting to the City and the State, from field to finish, for the Lump Sum amount of \$1,400.

I look forward to hearing from you and would gladly meet with you or whoever on this matter.

Sincerely,

A handwritten signature in blue ink, appearing to read "Robert K. Yates", with a stylized flourish at the end.

Robert K. Yates
NBIS Lead Inspector, B1110
1204 S. 4th St.
Dayton, WA 99328
509 629-1852

COLUMBIA COUNTY'S
2019 Bridge Report to and for;
City of Dayton Washington's NBIS Bridges



Inspections by:
Columbia County Public Works

Report Date: September 18, 2019
By Robert K. Yates, NBIS Inspector B1110

Under the Direction of Charles L. Eaton, P.E.
Columbia County Engineer / Public Works Director

September 18, 2019

To: Mayor Pro-Tem
City of Dayton

cc: Jim Costello
City Superintendent

Bill Preston, P.E.
WSDOT SCR LP Engineer

Roman Peralta, P.E.
WSDOT LP Bridge Engineer

Eric Zitterkopf, P.E.
Anderson Perry & Associates

From: Charles L. Eaton, P.E.
Columbia County Engineer
Public Works Director

Subject: City of Dayton's, National Bridge Inventory, 2019 Bridge Report for;

Dayton #1, Front Street over Patit Creek
Dayton #3, N. First Street over Patit Creek
Dayton #4, N. Third Street over Patit Creek
Dayton #5, N. Sixth Street over Patit Creek

Honorable Mayor;

On August 26, 2019, Columbia County inspected your four (4) National Bridge Inventory (NBI) Bridges as listed above. City of Dayton's Public Work's Foreman, David Elkins, accompanied these inspections as has been common over the last several 2-year bridge inspection cycles.

Attached hereto are the following documents for each of the four NBI bridges inspected being the only four city bridges that qualify.

'Bridge Inspection Report'

'WSBIS Field Inventory Report'

Current 'Scour Field Evaluation' being 2019's soundings to historically track channel cross-sectional changes along the upstream side of each bridge.

Pertinent to this report, pictures taken at each bridge.

The remainder of this cover letter generally highlights the issues for all and/or each of the bridges.

The general condition all the bridges have been largely unchanged since the newest bridge, First Street, was constructed in 2005. There are no unreported main-span structural warnings to highlight as known deficiencies remain unchanged and/or remain stable.

The Front Street Bridge and the Third Street Bridge are very similar consisting of combination 104 +/- year-old concrete arches widened in the 1960's with one *(used)* T-Beam prestressed concrete girder on each side of each bridge. The forces of these girders upon existing wingwalls and/or 1960's modifications made to those wingwalls caused large cracking and some movement of some of the wingwalls. However these conditions stabilized decades ago with no noteworthy changes since the early 1990's.

The First Street Bridge remains in good condition however one worrisome condition cropped up during the 2011 inspection cycle. *(See Pictures)*

If one accesses the southeast corner of the bridge by walking outside of and along the retaining wall / pedestrian barrier via the residence of 203 East Patit's yard, there is a concrete sub-structure below the retaining wall / pedestrian barrier near where such meets the bridge's Pier 1's abutment wall.

Pictured marked '2011' shows the apparent initial delamination of that sub-structure. Picture marked '2018' shows much severe delamination and also sagging of that concrete substructure.

Picture marked '2019' shows little noticeable difference since 2018.

Since 2011, Jim Costello, David Elkins and Eric Zitterkopf, P.E. have all been apprised and updated of this condition. It is not immediately known if this delamination and settlement is a forewarning of further or potential structural issues in the retaining wall and/or the approach slab and/or the pedestrian barrier and/or the sidewalk, all of which sits above in elevation of this failing peripheral substructure element.

The Sixth Street Bridge has no conditions worth noting except for the following 'vegetation' information which concerns all four bridges.

Vegetation:

All four bridges have vegetation issues from mild to severe. *(See Pictures)* These issues include:

Vines, bushes and trees encroach over and onto sidewalks thus impeding pedestrians, obscuring signage, obscuring the limits of the guardrail, crowding traffic and a myriad of safety issues.

Said vegetation also obscures the city's ability to see and monitor, especially during flood, substructure elements like wingwalls, the timber retaining wall at the southwest corner of the Front Street Bridge and such also makes a thorough NBI inspection of such features impossible.

As shown in the pictures of the 4 bridges, clearing vegetation away from all aspects of each bridge to and just beyond natural ground / as-built ground should be a priority.

Columbia County is and was happy to provide this service for the City of Dayton. If you or any of the recipients of this report have any questions, concerns or need additional information, please do not hesitate to contact me.

Respectfully submitted;

Charles L. Eaton, P.E.
Columbia County Engineer
Public Works Director

April 12, 2011

Honorable Mayor Craig George
111 S. 1st St
Dayton, WA 99328

RE: Bridge Inspection Program

Dear Mayor George:

On June 25, 2010, the City of Dayton was notified that the Washington Department of Transportation (WSDOT) would not provide bridge inspection services to the City of Dayton after July 1, 2011. A copy of that correspondence is included with this letter. In the past, WSDOT inspected the City's bridges that are on the National Bridge Inventory (NBI). City bridges included in the NBI are those bridges crossing Patit Creek at Front St, First St, Third St, and Sixth St. Pedestrian only bridges are not part of the NBI.

Bridge inspections under this program must meet the Federal National Bridge Inspection Standards (NBIS). The NBIS has requirements relating to training and experience, elements to be inspected, inspection frequency, and many other items. Columbia County inspects all of its bridges and its staff meets all of the requirements of the NBIS.

Our records indicate that the City's bridges are due for inspection no later than August of 2011. Columbia County is willing to perform these inspections for the City of Dayton. The City would be responsible to reimburse the County for actual costs associated with performing the inspections, preparing the bridge inspection reports, and entering the inspection reports into the State database. The estimated cost of these inspections is \$2,500 and would need to be performed every 24 months. Furthermore, the County would be willing to inspect other City bridges that are not part of this program such as the pedestrian bridge linking the park and the ball fields.

Continued ...

There are other avenues available to the City for bridge inspection services such as WsDOT's Bridge Preservation Office and consulting firms. Please let me know if the City is interested in an interlocal agreement for the County to provide bridge inspection services. I am also available to come speak at a City Council meeting about this program if you would like.

Sincerely,

WILLIAM ANDREW WOODS, P.E.
Columbia County Engineer/Public Works Director

WAW:waw

CC: Board of County Commissioners
Mr. Robert Yates

2013 BRIDGE INSPECTION REPORT

for the City of Dayton

Under the Direction of:
William A. Woods, P.E.
Columbia County Engineer / Public Works Director



Inspections by:
Columbia County Public Works
Report Date: April 29, 2014
By Robert K. Yates, B1110

CITY OF DAYTON 2013 Bridge Inspection Report

<i>Dayton #1 - Inspected: 08/13/2013 - Sufficiency Rating = 70.45</i>	<i>1</i>
<i>Dayton #2 - REMOVED: 2009</i>	<i>1</i>
<i>Dayton #3 - Inspected: 08/13/2013 - Sufficiency Rating = 98.00</i>	<i>1</i>
<i>Dayton #4 - Inspected: 08/13/2013 - Sufficiency Rating = 80.00</i>	<i>1</i>
<i>Dayton #5 - Inspected: 08/13/2013 - Sufficiency Rating = 98.99</i>	<i>1</i>

CITY OF DAYTON 2013 Bridge Inspection Report

Dayton #1 - Inspected: 08/13/2013 - Sufficiency Rating = 70.45

Front Street over Patit Creek. Built 1915 and modified in 1960.

Maintenance:

- There is a varmint hole near the top at the far end of the timber crib wall. Fill and seal the hole.

Dayton #2 - REMOVED: 2009

Patit Street over Patit Creek. Removed 2009.

Dayton #3 - Inspected: 08/13/2013 - Sufficiency Rating = 98.00

First Street over Patit Creek. Built 2005.

Maintenance:

- Repair southeast sidewalk near the approach slab that has a $\frac{3}{4}$ " drop at an expansion joint.
- Remove remnants of formwork and chamfer strips from the southeast streamside back wall's interface with the wingwall.

Dayton #4 - Inspected: 08/13/2013 - Sufficiency Rating = 80.00

Third Street over Patit Creek. Built 1915 and modified in 1965.

Maintenance:

- Install terminal ends on all four corners of the bridge to cover blunt rail ends.
- Missing bolt in guardrail at southwest corner of bridge.

Dayton #5 - Inspected: 08/13/2013 - Sufficiency Rating = 98.99

Sixth Street over Patit Creek. Built 2001.

Maintenance:

- None