Village of **Croton-on-Hudson**

Engineering Department
Stanley H. Kellerhouse Municipal Building
One Van Wyck Street
Croton-on-Hudson, NY 10520-2501
Tel: 914-271-4783
engineering@crotononhudson-ny.gov

Tree Removal Application

(Form # Eng-208-16-A)
(Revised 01 2025)

An application for tree removal must be submitted under section 208-16 of the Village Code for the removal of certain trees. Complete the information below. Fee is as indicated in the current Village Fee Schedule. Insurance documentation for the applicant must also be submitted with the application.

Application Date: 07/24/2025 **Application #:** _____

Property Information: Section: N/A Block: _____ Lot: _____

Property Location (street address): Quaker Bridge Road Bridge

# of Acres or Sq. Ft: 1.2 Zoning District RA-25 Commercial Lot: ☐ Yes ☑ No Vacant Lot: ☐ Yes ☑ No

Contractor Information: Person/Company Doing Work: ☐ Owner ☐ Tree Removal Contractor ☑ Other: TBD

Last Name: _____ First Name: _____ MI: _____

Company: _____

Address: _____

Phone #: _____ Cell #: _____ E-mail: _____

Property Owner: ☐ Same As Above

Last Name: Greechan, Jr., P.E. First Name: Hugh MI: J.

Company: Commissioner of Public Works and Transportation-Westchester County

Address: 148 Martine Avenue, White Plains, NY 10601

Phone #: (914)995-2546 Cell #: _____ E-mail: hjg7@westchestercountyny.gov

Attach to Application:

☑ Plot Plan Survey attached showing:
- ☑ locations of trees to be removed
- ☑ any nearby trees to be preserved shown with their diameters and species, and
- ☑ location of any regulated buffer zone

☐ If contractor is completing proposed work: a copy of the contractor's insurance documentation is attached or already on file with the Building Department.

☐ If property owner is applicant: a copy of the homeowner's insurance declaration pages is attached with Certificate of Attestation of Exemption (form CE-200) with the permit application. The form is available online at the NYS Workers' Compensation Board's web site at the following link, https://www.businessexpress.ny.gov/app/answers/cms/a_id/2263/kw/CE

Mark trees on Property:

☑ All trees, proposed to be removed, are clearly marked with a ribbon, paint or sign to enable the Village Tree Inspector to clearly see which trees are proposed to be removed.

Reason for Application based on Village Code § 208-16 (A):

1. ☐ § 208-16 (A) (1) Tree is eight inches or more in DBH on a vacant lot or a property that could be subdivided or a commercial property.
2. ☐ § 208-16 (A) (2) Tree is four inches or more in DBH and is growing on slopes over 20%. (See slope calculator)
3. ☐ § 208-16 (A) (3) Tree is threatened or endangered species, regardless of size, as defined by the NYSDEC Environmental Conservation Law § 193.3. (Available at www.dec.state.ny.us.)
4. ☑ § 208-16 (A) (5) Tree is four or more inches in DBH and is wholly or partially located in a regulated buffer zone. Specify Buffer Zone (see diagram below):

Zoning District	# of Feet	Zoning District	# of Feet
☐ RA-40	15	☐ RB (One-Family Residence)	3
☑ RA-25	10	☐ RB (Two-Family Residence)	5
☐ RA-9	5	☐ RC (One-Family Residence)	5
☐ RA-5	3	☐ RC (Multiple Residence)	12

5. ☑ § 208-16 (A) (6) Clear cutting more than ten trees with a DBH of four inches or greater on a lot within any 12 month period.

Reason for Tree Removal Permit based on Village Code § 208-16 (D):

1. ☐ § 208-16 (D) (1) The location of the tree(s) clearly endangers the health, safety, welfare or property of the general public, the property owner or an adjoining property owner. Explain:

2. ☐ § 208-16 (D) (2) The location of the tree(s) prevents compliance with state, county or local standards for sight lines, driveways or intersections. Explain:

3. ☑ § 208-16 (D) (3) The location of the tree(s) prevents the property owner from undertaking otherwise approved construction or alteration. Explain: ~~Bridge Replacement~~

4. ☐ § 208-16 (D) (4) The location of the tree(s), due to death, disease, blight, infestation, storm damage, accident or other condition, causes undue hardship for the property owner to maintain. Explain:

5. ☐ § 208-16 (D) (5) The tree(s) is dead, or so substantially diseased that it constitutes a danger to persons, property or other trees. Note: Completely dead trees require no permit. Explain:

6. ☐ § 208-16 (D) (6) The removal of the tree(s) is not inconsistent with good silvicultural, horticultural or vegetation management and will not have an adverse visual or ecological impact. Explain:

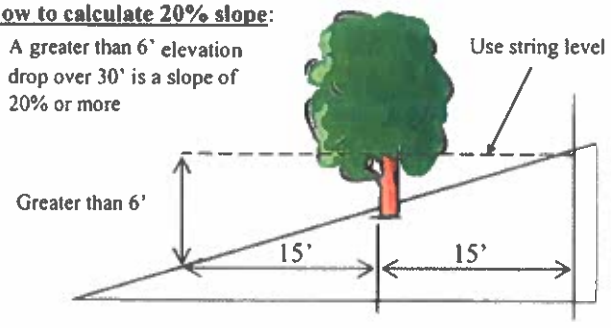
7. ☐ Other Explain:

Tree Removal Information (use separate page for more than seven (7) trees): See the attached.

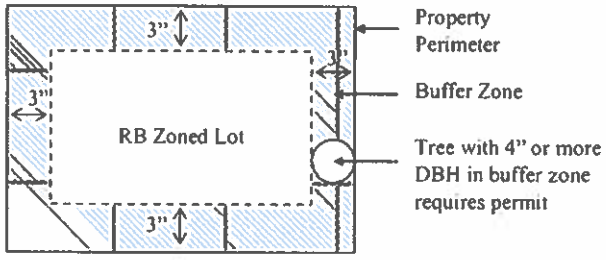
Tree #	1	2	3	4	5	6	7
Diameter (DBH*)							
Species (Oak, Maple, etc.)							
Reason for Permit Application**							
Reason for Removal Permit**							
Replacement Tree Proposed (Size and Type)							
Estimated Removal Cost							
Removal Method							

* Diameter at Breast Height (DBH) – The diameter of a tree measured at a point four and a half feet above the ground, or at the highest measurable point of the remaining stump if less than four and a half feet, on the uphill side of the tree.
** Use numbers from page one.

How to calculate 20% slope:



Example of buffer zone using RB Zoned Lot:



I certify that the above information is accurate, and I am authorized to file this application on behalf of the owner.

Hugh J. Greechan, Jr., P.E. | [signature] | 07/24/2025

Applicant's Name (please print) | **Applicant's Signature** | **Date**

FOR VILLAGE USE ONLY:

Number of Trees: _____ $ _____ (first two) x $ _____ (each additional tree) = $ _____

Fee $: _____ Date Paid: _____ Received by: _____

APPROVED BY: _____

COMMENTS: _____ TITLE: _____

DATE: _____

MEMORANDUM

Creighton Manning
a GAI Company
ENGINEERS
PLANNERS
SURVEYORS

Date: July 31, 2025

To: Village of Croton-on-Hudson Planning Board
From: Matthew Hunt, PE
cc: Angelo Sgobbo, PE, Director of Design Coordination

Project: 124-296 Quaker Bridge Replacement
Re: Methodology for Estimating Annual Tree Benefit Value

As part of the permit application for the Quaker Bridge replacement, we evaluated the annual environmental and economic benefits of 57 trees proposed for removal on Village property.

Using the **National Tree Benefit Calculator** from the **Arbor Day Foundation**, we entered each tree's species, diameter, and land use classification ("Park or other vacant land"). The total estimated **annual benefit** of these trees is **$3,940** within the 10520 zip code. Only trees within the Village boundary were included.

To offset this impact, we are proposing to provide **79 new trees and 164 live stakes**, with a total estimated **annual benefit** of **$4,140**, calculated using the same methodology.

Please let us know if further details are needed.

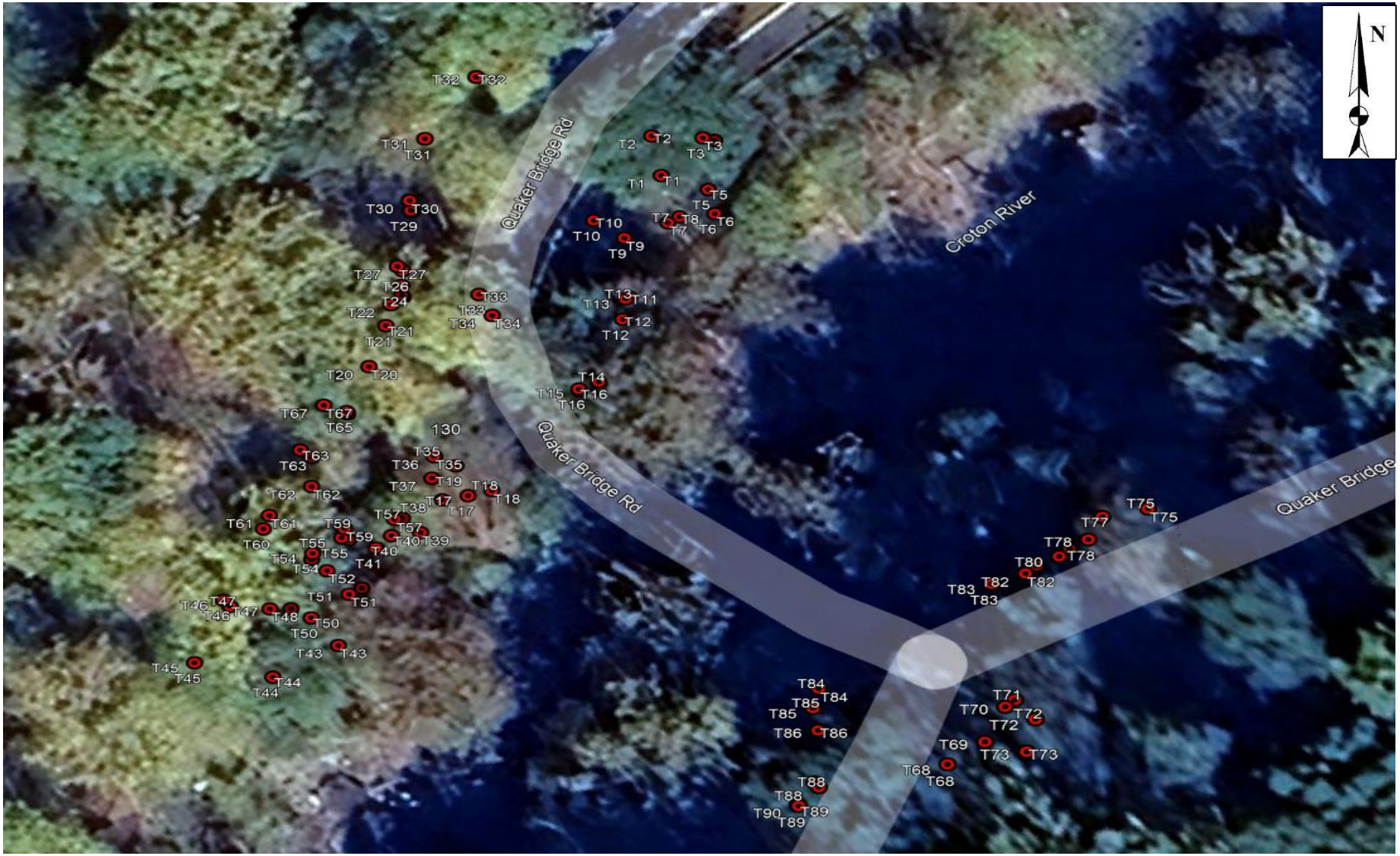
TREE REMOVAL LIST

	Species Name	Species Name	DBH (inches)	Invasive Status	Municipality	Tree Benefits
T1	Sugar Maple	*Acer sacharrum*	23	No	Croton-on-Hudson	$157.00
T2	Black Oak	*Quercus velutina*	9	No	Croton-on-Hudson	$77.00
T3	Witchhazel	*Hamamelis virginiana*	4	No		Tree to remain
T4	Witchhazel	*Hamamelis virginiana*	4	No		Tree to remain
T5	White Oak	*Quercus alba*	8	No		Tree to remain
T6	American Sycamore	*Platanus occidentalis*	24	No		Tree to remain
T7	American Elm	*Ulmus americana*	5	No	Croton-on-Hudson	$47.00
T8	snag		4	No	Croton-on-Hudson	$0.00
T9	American Elm	*Ulmus americana*	8	No	Croton-on-Hudson	$71.00
T10	Red Oak	*Quercus rubra*	2	No	Croton-on-Hudson	$18.00
T11	American Sycamore	*Platanus occidentalis*	11	No	Croton-on-Hudson	$87.00
T12	American Elm	*Ulmus americana*	4	No	Croton-on-Hudson	$40.00
T13	Ironwood	*Carpinus caroliniana*	4	No	Croton-on-Hudson	$20.00
T14	American Sycamore	*Platanus occidentalis*	32	No	Croton-on-Hudson	$227.00
T15	Red Oak	*Quercus rubra*	4	No	Croton-on-Hudson	$32.00
T16	Red Oak	*Quercus rubra*	5	No	Croton-on-Hudson	$40.00
T17	Red Oak	*Quercus rubra*	7	No	Croton-on-Hudson	$58.00
T18	Black Birch	*Betula lenta*	8	No	Croton-on-Hudson	$100.00
T19	Basswood	*Tilia americana*	16	No	Croton-on-Hudson	$121.00
T20	Black Birch	*Betula lenta*	14	No	Croton-on-Hudson	$150.00
T21	Sugar Maple	*Acer sacharrum*	7	No	Croton-on-Hudson	$47.00
T22	Sugar Maple	*Acer sacharrum*	4	No	Croton-on-Hudson	$25.00
T23	Black Birch	*Betula lenta*	12	No	Croton-on-Hudson	$134.00
T24	Sugar Maple	*Acer sacharrum*	16	No	Croton-on-Hudson	$114.00
T25	Sugar Maple	*Acer sacharrum*	17	No	Croton-on-Hudson	$120.00
T26	Black Birch	*Betula lenta*	3	No	Croton-on-Hudson	$50.00
T27	Sugar Maple	*Acer sacharrum*	2	No	Croton-on-Hudson	$13.00
T28	snag		10	No	Croton-on-Hudson	$0.00
T29	snag		5	No	Croton-on-Hudson	$0.00
T30	White Ash	*Fraxinus americana*	15	No	Croton-on-Hudson	$126.00
T31	Black Birch	*Betula lenta*	16	No	Croton-on-Hudson	$163.00
T32	American Beech	*Fagus grandifolia*	15	No	Croton-on-Hudson	$157.00
T33	Red Oak	*Quercus rubra*	20	No	Croton-on-Hudson	$166.00
T34	Tulip Tree	*Lioriodendron tulipfera*	4	No	Croton-on-Hudson	$60.00
T35	Sugar Maple	*Acer sacharrum*	6	No	Croton-on-Hudson	$39.00
T36	Sugar Maple	*Acer sacharrum*	9	No	Croton-on-Hudson	$62.00
T37	Sugar Maple	*Acer sacharrum*	3	No	Croton-on-Hudson	$19.00
T38	American Elm	*Ulmus americana*	5	No	Croton-on-Hudson	$47.00
T39	White Ash	*Fraxinus americana*	7	No	Croton-on-Hudson	$58.00
T40	Ironwood	*Carpinus caroliniana*	3	No	Croton-on-Hudson	$16.00
T41	Sugar Maple	*Acer sacharrum*	9	No	Croton-on-Hudson	$62.00
T42	American Sycamore	*Platanus occidentalis*	42	No		Tree to remain
T43	White Ash	*Fraxinus americana*	14	No		Tree to remain
T44	Hemlock	*Tsuga canadensis*	12	No		Tree to remain
T45	American Beech	*Fagus grandifolia*	9	No		Tree to remain
T46	Tulip Tree	*Lioriodendron tulipfera*	23	No		Tree to remain
T47	Tulip Tree	*Lioriodendron tulipfera*	25	No		Tree to remain
T48	American Beech	*Fagus grandifolia*	5	No	Croton-on-Hudson	$71.00

T49	Red Maple	*Acer rubrum*	5	No	Croton-on-Hudson	$41.00
T50	Red Oak	*Quercus rubra*	15	No	Croton-on-Hudson	$131.00
T51	American Elm	*Ulmus americana*	3	No	Croton-on-Hudson	$34.00
T52	American Elm	*Ulmus americana*	5	No	Croton-on-Hudson	$47.00
T53	Hemlock	*Tsuga canadensis*	3	No	Croton-on-Hudson	$9.00
T54	Red Maple	*Acer rubrum*	6	No	Croton-on-Hudson	$48.00
T55	Hemlock	*Tsuga canadensis*	3	No	Croton-on-Hudson	$9.00
T56	Hemlock	*Tsuga canadensis*	3	No	Croton-on-Hudson	$9.00
T57	Sugar Maple	*Acer sacharrum*	5	No	Croton-on-Hudson	$32.00
T58	Tulip Tree	*Lioriodendron tulipfera*	15	No	Croton-on-Hudson	$157.00
T59	American Sycamore	*Platanus occidentalis*	12	No	Croton-on-Hudson	$95.00
T60	Black Birch	*Betula lenta*	6	No	Croton-on-Hudson	$81.00
T61	Black Birch	*Betula lenta*	9	No	Croton-on-Hudson	$110.00
T62	snag		6	No	Croton-on-Hudson	$0.00
T63	Black Birch	*Betula lenta*	7	No	Croton-on-Hudson	$90.00
T64	Black Birch	*Betula lenta*	7	No	Croton-on-Hudson	$90.00
T65	snag		18	No	Croton-on-Hudson	$0.00
T66	snag		12	No	Croton-on-Hudson	$0.00
T67	Tulip Tree	*Lioriodendron tulipfera*	16	No	Croton-on-Hudson	$163.00
T68	Witchhazel	*Hamamelis virginiana*	4	No	Cortlandt	
T69	Tulip Tree	*Lioriodendron tulipfera*	6	No	Cortlandt	
T70	Witchhazel	*Hamamelis virginiana*	3	No	Cortlandt	
T71	White Ash	*Fraxinus americana*	3	No	Cortlandt	
T72	Hemlock	*Tsuga canadensis*	3	No	Cortlandt	
T73	Hemlock	*Tsuga canadensis*	3	No	Cortlandt	
T74	Black Cherry	*Prunus serotina*	3	No	Cortlandt	
T75	American Elm	*Ulmus americana*	5	No	Cortlandt	
T76	Red Oak	*Quercus rubra*	12	No	Cortlandt	
T77	Tulip Tree	*Lioriodendron tulipfera*	5	No	Cortlandt	
T78	Red Oak	*Quercus rubra*	15	No	Cortlandt	
T79	Tulip Tree	*Lioriodendron tulipfera*	15	No	Cortlandt	
T80	Bitternut Hickory	*Carya cordiformis*	4	No	Cortlandt	
T81	American Elm	*Ulmus americana*	7	No	Cortlandt	
T82	Red Oak	*Quercus rubra*	8	No	Cortlandt	
T83	American Sycamore	*Platanus occidentalis*	24	No	Cortlandt	
T84	American Sycamore	*Platanus occidentalis*	20	No	NYSDEC ROW	$154.00
T85	Red Oak	*Quercus rubra*	11	No	NYSDEC ROW	$95.00
T86	White Ash	*Fraxinus americana*	4	No	NYSDEC ROW	$33.00
T87	Red Oak	*Quercus rubra*	14	No		Tree to remain
T88	snag		17	No		Tree to remain
T89	snag		8	No		Tree to remain
T90	Tulip Tree	*Lioriodendron tulipfera*	30	No		Tree to remain

Total for Village of Croton trees $3,940.00

Species Name	Species Name	DBH (inches)	Quantity	Invasive Status	Municipality	Individual Tree Benefits	Total Tree Benefits
Sugar Maple	*Acer sacharrum*	2	17	No	Croton-on-Hudson	$13.00	$221.00
Sweet Birch	*Quercus velutina*	2	13	No	Croton-on-Hudson	$25.00	$325.00
White Ash	*Fraxinus americana*	2	6	No	Croton-on-Hudson	$20.00	$120.00
Tulip Poplar	*Lioriodendron tulipfera*	2	10	No	Croton-on-Hudson	$39.00	$390.00
American Sycamore	*Ulmus americana*	2	4	No	Croton-on-Hudson	$16.00	$64.00
Red Oak	*Quercus rubra*	2	13	No	Croton-on-Hudson	$18.00	$234.00
Eastern Hemlock	*Tsuga canadensis*	2	6	No	Croton-on-Hudson	$6.00	$36.00
American Elm	*Ulmus americana*	2	10	No	Croton-on-Hudson	$29.00	$290.00
Black Willow	*Salix nigra*	1	164	No	Croton-on-Hudson	$15.00	$2,460.00
					Total proposed in Village of Croton		$4,140.00



OSPA
ENGINEERING SERVICES, PC

Tree Location Map

Quaker Bridge Replacement
Town of Cortlandt
Westchester County

NOT TO SCALE

Village of Croton-on-Hudson

COASTAL ASSESSMENT FORM

A. INSTRUCTIONS (Please print or type all answers)

1. *Applicants, or in the case of direct actions (city, town, village) agencies, shall complete this CAF for proposed actions which are subject to the consistency review law. This assessment is intended to supplement other information used by a (city, town, village) agency in making a determination of consistency.*

2. *Before answering the questions in Section C, the preparer of this form should review the policies and explanations of policy contained in the Local Waterfront Revitalization Program (LWRP), a copy of which is on file in the (city, town, village) clerk's office and available on the Village web site at Village of Croton-on-Hudson Local Waterfront Revitalization Program 2024. A proposed action should be evaluated as to its significant beneficial and adverse effects upon the coastal area.*

3. *If any question in Section C on this form is answered "yes", then the proposed action may affect the achievement of the LWRP policy standards and conditions contained in the consistency review law. Thus, the action should be analyzed in more detail and, if necessary, modified prior to making a determination that it is consistent to the maximum extent practicable with the LWRP policy standards and conditions. If an action cannot be certified as consistent with the LWRP policy standards and conditions, it shall not be undertaken.*

B. DESCRIPTION OF SITE AND PROPOSED ACTION:

1. Type of (city, town, village) agency action (check appropriate response):
   a) Directly undertaken (e.g. capital construction, planning activity, agency regulation, land transaction) _____
   b) Financial assistance (e.g. grant, loan, subsidy) _____
   c) Permit, approval, license, certification X
   d) Agency undertaking action _____

2. Describe nature and extent of action: The proposed project will include the removal of the existing bridge and construction of a new bridge, in addition to roadway approach improvements. The construction of a new bridge will ensure safe and accessible route for motorists and pedestrians.

3. Location of actions: Quaker Bridge Road Town of Cortlandt and Village of Croton-on-Hudson Westchester County
   (street or site description)

4. Size of site: 0.35 acres

5. Present land use: Bridge crossing the Croton River (currently closed)

6. Present zoning classification: Croton: PRE-1 Park Recreation and Education and RA-25 One Family Residence. Cortlandt: R-80 Single Family Residential

7. List and describe any unique or unusual land forms within or contiguous to the project site (i.e. bluffs, dunes, swales, ground depressions, other geological formations):
Croton River

8. Percent of site which contains slopes of 15% or greater: 40%

9. List and describe streams, lakes, ponds or wetlands existing within or contiguous to the project area. Give name and size of each if available:

a) Name: Croton River, Cl;ass B Stream

b) Size (in acres): N/A

10. If an application for the proposed action has been filed with the (city, town, village) agency, the following information shall be provided:

a) Name of applicant: Hugh J Greechan, Jr., P.E.,Commissioner of Public Works and Transportation

b) Mailing address: 148 Martine Avenue, White Plains, NY 10601

c) Telephone number: (area code) (914)995-2546

d) Application number, if any: N/A

11. Will the action be directly undertaken, require funding or approval by a state or federal agency? NO _____ YES X

If yes, which state or federal agency? USACE and NYSDEC Permitting

12. If the proposed action is a law, or planning or zoning document, SKIP Section "C" and go to Section "E".

C. COASTAL ASSESSMENT:

The Waterfront Revitalization Area (WRA) Boundary for the Village of Croton-on-Hudson coincides with the municipal boundary.

	YES	NO	N/A
1. Will the proposed action be located in, or contiguous to, or have a potentially adverse effect upon the following:			
a) Significant fish or wildlife habitats?		X	
b) Scenic resources of local or statewide significance?		X	
c) Natural protective features in an erosion hazard area?		X	

If the answer to any question above is "yes", please explain in Section D any measures which will be undertaken to mitigate any adverse effects.

	YES	NO	N/A
2. Will the proposed action have a significant effect upon:			
a) Commercial or recreational use of fish and wildlife resources?		X	
b) Scenic quality of the coastal environment?		X	
c) Development of future or existing water dependent uses?		X	
d) Operation of the State's major ports?		X	
e) Land or water uses within a small harbor area?		X	
f) Stability of the shoreline?		X	
g) Surface or groundwater quality?		X	
h) Existing or potential public recreation opportunities?		X	
i) Structures, sites or districts of historic, archeological or cultural significance to the (city, town, village), State or nation?	X		
3. Will the proposed action involve or result in any of the following:			
a) Physical alteration of land along the shoreline, land under water or coastal waters?	X		
b) Physical alteration of two (2) acres or more of land located elsewhere in the coastal area?		X	
c) Expansion of existing public services or infrastructure in undeveloped or low density areas of the coastal area?		X	
d) Energy facility not subject to Article VII or VIII of the Public Service Law?		X	
e) Mining, excavation, filling or dredging in coastal waters?		X	
f) Reduction of existing or potential public access to or along the shore?		X	
g) Sale or change in use of publicly-owned lands located on shoreline or under water?		X	
h) Development within a designated flood or erosion hazard area?	X		
i) Development on a beach, dune, barrier island or other natural feature that provides protection against flooding or erosion?		X	
j) Construction or reconstruction of erosion protective structures?		X	
k) Diminished surface or groundwater quality?		X	
l) Removal of ground cover from the site?	X		

4. Project	YES	NO	N/A
a) If project is to be located adjacent to shore:			
1. Will water-related recreation be provided?		X	
2. Will public access to the foreshore be provided?		X	
3. Does the project require a waterfront site?		X	
4. Does it supplant a recreational or maritime use?		X	
5. Do essential public services and facilities presently exist at or near the site?		X	
6. Is it located in a flood prone area?		X	
7. Is it located in an area of high erosion?		X	
b) If the project site is publicly owned:			
1. Will the project protect, maintain and/or increase the level and industrial facilities into coastal facilities?		X	
2. If located in the foreshore, will access to those and adjacent lands be provided?		X	
3. Will it involve the siting and construction of major energy facilities?		X	
4. Will it involve the discharge of effluent from major steam electric generating and industrial facilities into coastal facilities?		X	
c) Is the project site presently used by the community neighborhood as an open space or recreation area?		X	
d) Does the present site offer or include scenic views or vistas known to be important to the community?		X	
e) Is the project site presently used for commercial fishing or fish processing?		X	
f) Will the surface area of any waterways or wetland area be increased or decreased by the proposals?	X		
g) Does any mature forest (over 100 years old) or other locally important vegetation exist on this site which will be removed by the project?		X	
h) Will the project involve any waste discharges into coastal waters?		X	
i) Does the project involve surface or subsurface liquid waste disposal?		X	
j) Does the project involve transport, storage, treatment or disposal of solid waste or hazardous materials?		X	
k) Does the project involve shipment or storage of petroleum			

products?		X	

4. Project (continued)

	YES	NO	N/A
l) Does the project involve discharge of toxic hazardous substances or other pollutants into coastal waters?		X	
m) Does the project involve or change existing ice management practices?		X	
n) Will the project affect any area designated as a tidal or freshwater wetland?		X	
o) Will the project alter drainage flow, patterns or surface water runoff on or from the site?		X	
p) Will best management practices be utilized to control storm water runoff into coastal waters?			X
q) Will the project utilize or affect the quality or quantity of sole source or surface water supplies?		X	
r) Will the project cause emissions which exceed federal or state air quality standards or generate significant amounts of nitrates or sulfates?		X	

D. REMARKS OR ADDITIONAL INFORMATION.

For questions answered "yes" in Section C, explain methods you will undertake to reduce adverse effects. Review the LWRP to see if the project is consistent with each policy. List policies the project is not consistent with and explain all mitigating actions.

(Add any additional sheets necessary to complete this form)

See the attached memo.

E. SUBMISSION REQUIREMENTS.

The final version of this form shall be sent to the Department of State *(New York State Dept. of State, Coastal Management Program, 162 Washington Avenue, Albany, NY 12231)* if any question in Section C is answered "yes" and either of the following conditions is met.

- Section B.1 (a) or B.1 (b) is checked **OR**
- Section B.1 (c) and B.11 is answered "yes"

==========

If assistance or further information is needed to complete this form, please contact the Village Engineer at (914) 271-4783.

Preparer's Name: Melanie C. Osterhout, P.E.

Title: President/Project Manager

Agency: OSPA Engineering Services, PC

Telephone No.: (518) 636-9956 E-mail: mosterhout@ospaengineering.com

Date: 7/24/2025

OSPA Engineering Services, PC
1533 Crescent Road, Suite A
Clifton Park, NY 12065
Phone: (518) 636-9956
Fax: (518) 885-8006

Memorandum

To: NYSDOS

CC: file

From: Melanie Osterhout, PE

Date: 7/25/2025

Project #: **486-0-0**

Re: Quaker Bridge Road Bridge Replacement Project

NYSDOS POLICY EXPLANATIONS

C.2(g). Structures, sites or districts of historic, archeological or cultural significance to the State or Nation.

One historic property, eligible for inclusion in, or listed on, the State or National Register of Historic Places, has been identified within the project's area of potential effect on OPRHP's CRIS. The property includes the Quaker Road Bridge (BIN 3348560, USN # 11902.000021). The project area and surrounding areas are located within an archaeologically sensitive area. Additionally, according to the Full Environmental Assessment Form (EAF) the project is within the vicinity of the Croton Aqueduct and the project area is also within the Critical Environmental Area, County and State Parks Lands in Westchester County for exceptional or unique character. A crossing has been present at the project location since at least 1892.

Hartgen Archeological Associates, Inc. conducted a study that identified the bridge as architecturally significant, recognizing it as a rare and outstanding example of a late nineteenth-century Pratt Truss bridge. Constructed in 1894 by the New York City firm Dean and Westbrook, the bridge retains an exceptional degree of historical integrity. Originally built as part of the Croton Turnpike Company's 1807 initiative to construct roads and bridges, the Quaker Bridge Road Bridge stands out as the earliest example of its kind in Westchester County.

While its original structure dates to 1894, the bridge underwent several modifications over time. In 1938, the original guard rails were replaced, and in 1977, further alterations introduced corrugated beam style railings. A comprehensive rehabilitation in 2009 included painting, repairs to the wing walls and abutments, structural improvements, and other minor replacements.

The majority of project work will occur within the existing bridge and right-of-way. A total of 5418 SF of temporary easements will be required for access and removal of the existing structure and 1440 SF of fee acquisitions for the new structure construction. The project has been submitted to OPRHP for a finding of effect and they have requested that a Memorandum of Understanding be submitted for their review and concurrence for the removal of the existing bridge.

C. 3(a). Physical alteration of land along the shoreline, land under water or coastal waters?

The project area is located along the banks and within the Croton River. The project proposes the removal of 76 trees in the project area and impacts below the ordinary high water of the Croton River. These impacts include 550 CY of stone fill placed within 2,290 SF. In total, 250 LF of the river will be impacted. Over 100 trees are proposed to be placed in the project area as mitigation, including live stakes of Black Willow along the banks. In addition, stone slope protection will be utilized to prevent erosion.

C. 3(h). Development within a designated flood or erosion hazard area.

The project area is located within the regulatory floodway, the 100-year floodplain and the 500-year floodplain of the Croton River per the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) in Westchester County, New York, Panel 36119C0128F dated 09/28/2007. This project is a functionally dependent use of the floodplain as it must occur in close proximity to water since it is a road crossing over the Croton River. A hydraulic analysis has determined that the proposed action will have no impact to the 50- and 100-year storm event water surface elevations of the Croton River.

OSPA Engineering Services, PC
800 Route 146, Bldg. 200
Suite 280
Clifton Park, NY 12065
Phone: (518) 636-9956

Memorandum

To: file

From: Melanie Osterhout, P.E.

Date: 7/25/2025

Project #: **486-0-0**

Re: Quaker Bridge Road Bridge Replacement

Regarding the Village of Croton-on-Hudson Wetlands Findings Statement, per Village Code 227:

1) **Whether the proposed activity is consistent with the findings and intent of this chapter as set forth in §§ 227-1 and 227-2 hereof.**

   Yes, the proposed project is consistent with the findings and intent of 227-1 and 227-2.

2) **Whether the proposed activity will have an environmental impact and the extent of that impact.**

   The project proposes the removal of 76 trees in the project area (including 57 within the Village of Croton-on-Hudson) and impacts below the ordinary high water of the Croton River. These impacts include 550 CY of stone fill placed within 2,290 SF. In total, 250 LF of the river will be impacted. 100 trees are proposed to be placed in the project area as mitigation.

3) **Whether there are possible or practicable alternatives to the proposed activity.**

   The only other project alternative is to leave the bridge as is. This alternative would not replace the existing bridge and the crossing would remain closed. The rehabilitation alternative was deemed unfeasible due to the poor condition of the existing bridge and severe geometric restrictions of the bridge configuration (substandard bridge width and vertical clearance).

4) **Whether the proposed activity will have a deleterious effect on the health, safety or welfare of the residents of the Village or its neighboring communities.**

   No

5) **Whether the proposed activity will have adequate safeguards for the protection and preservation of the environment and the wetlands, and for the natural functions of and benefits derived from such areas.**

No wetlands are located in the project area. Safeguards for work within the river include erosion and sediment controls such as silt fence, matting, turbidity curtains and coffer dams. Additionally, the construction activities will be governed by NYSDOT Standard Specifications, which have strict requirements for the use of specific materials and construction methods deemed safe by the Department of Transportation. The County will have two full-time inspectors on-site during construction to ensure the contractor abides by all NYSDOT specifications, environmental permits, and contract documents.

6) **Whether the proposed activity will have adequate safeguards employing the best available technology to protect the surface water and groundwater supplies of the Village from drought, pollution, overuse and other forms of misuse.**

Yes, safeguards for work within the river include erosion and sediment controls such as silt fence, matting, turbidity curtains and coffer dams. Additionally, the construction activities will be governed by NYSDOT Standard Specifications, which have strict requirements for the use of specific materials and construction methods deemed safe by the Department of Transportation. The County will have two full-time inspectors on-site during construction to ensure the contractor abides by all NYSDOT specifications, environmental permits, and contract documents.

7) **Whether the proposed activity has been planned or designed so as to create minimal disturbance; to prevent or mitigate damage from erosion, turbidity or siltation; to preserve the natural flora and fauna and their habitat; to protect against flood and pollution of the wetlands; and to protect any other benefits of wetlands as enumerated in §§ 227-1 and 227-2 hereof; and is the best practicable alternative available for accomplishing the proposed action.**

Yes, the proposed project was designed to minimize clearing to the maximum extent practicable. Erosion and sediment controls will be in place prior to any ground disturbance. Other than leaving the existing bridge which would remain closed, there is no other alternative to constructing a new bridge.

8) **Whether there is a practicable alternative site for the proposed activity in another area of the subject property that is not a wetland.**

Impacts to wetlands are not proposed. The proposed project is a bridge crossing over the Croton River. There is no alternative to crossing the river, other than the alternative that is proposed.

Please let me know if you require any additional information.

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From: Melanie Osterhout, P.E.

Date: 7/25/2025

Project #: **486-0-0**

Re: Quaker Bridge Road Bridge Replacement

Regarding the Village of Croton-on-Hudson Indian Brook-Croton Gorge Inter-Municipal Watershed Protection Overlay District (WPOD) Findings Statement, per Village Code 230-20.14 and 230-20.15:

230-20.14

1) **All construction activities (as defined by the agency having approving jurisdiction) that involve soil disturbances greater than 5,000 square feet shall comply with the latest edition of the New York State Department of Environmental Conservation (NYSDEC) Stormwater Manual. All construction activities shall be required to meet the standards set forth in the SPDES General Permit for construction activities that involve soil disturbances greater than 5,000 square feet and all stormwater pollution prevention plans shall meet water quantity and quality controls for all new impervious surfaces as outlined below.**

   A SWPPP is being prepared for the proposed project in compliance with GP-0-25-001.

2) **Any new construction activity which creates new impervious surfaces greater than 5,000 square feet shall be treated for water quality volume (WQv), peak flows (cfs) and volume (cf) as outlined in the New York State Department of Environmental Conservation (NYSDEC) Stormwater Management Design Manual, latest edition, and Chapter 196, Stormwater, Drainage, Erosion and Water Pollution Control, and include enhanced requirements for pollutants of concern as outlined and incorporated in the Stormwater Management Design Manual, latest edition.**

   Less than 5000 square feet of new impervious surface is being created by the proposed project, however a SWPPP is being prepared for the proposed project in compliance with GP-0-25-001 and the above listed manuals.

3) **Low-impact development (LID) practices shall be provided to the extent feasible for all new or redevelopment within the watershed, including the use of bioretention**

facilities, rain gardens, vegetated rooftops, rainwater harvesting, and permeable pavements.

A SWPPP is being prepared for the proposed project in compliance with GP-0-25-001. The LID practices listed above are not feasible for a bridge replacement at the project site, considering the surrounding existing topography, site use and in an effort to minimize disturbance/clearing.

4) **Pollutant loadings will not damage any wetland, water body or watercourse.**

A SWPPP is being prepared for the proposed project in compliance with GP-0-25-001. Pollutant loadings will not increase from existing conditions.

5) **Grading and removal of vegetation is minimized for all construction.**

Grading and clearing has been limited to the minimum required for construction of the bridge and access.

6) **Septic systems must be pumped at least once during every three-year period.**

Not applicable.

7) **The storage and stockpiling of manure and other animal waste for use in agricultural operations, agricultural use of fertilizers and land application of manure, and pesticide (including herbicide) storage and use shall comply, to the maximum extent possible, with the practices detailed in the most current versions of "Controlling Agricultural Nonpoint Source Water Pollution in New York State - A Guide to the Selection of Best Management Practices to Protect Water Quality," published by the Bureau of Technical Services and Research, Division of Water, or "Agricultural Management Practices Catalogue for Nonpoint Source Pollution Prevention and Water Quality Protection in New York State."**

Not applicable.

8) **Fertilizers, pesticides, and herbicides shall not be applied in a manner or at a rate which contributes to or causes a contravention of the water quality standards set forth in 6 NYCRR 700 to 705.**

Not applicable.

9) **Pesticide storage and use (including herbicides) are subject to the approval of, and shall comply with the regulations of, the New York State Department of Environmental Conservation.**

Not applicable.

10) **Disposal of pesticide, including herbicides, is prohibited unless authorized by a permit issued by the New York State Department of Environmental Conservation.**

Not applicable.

11) **Disposal of water used for pesticide makeup water or for washing of pesticide equipment is prohibited unless authorized by a permit issued by the New York State Department of Environmental Conservation.**

Not applicable.

12) **Use of streams as sources of water for the washing of equipment used in conjunction with pesticide or herbicide application is prohibited.**

Not applicable.

13) **Lawn chemicals (pesticides and herbicides) shall not be applied within 25 linear feet of any watercourse, or within a wellhead buffer area.**

Not applicable.

14) **Storage of chloride salts and coal shall be in structures designed to minimize contact with precipitation and constructed on low-permeability pads designed to control seepage and run-off.**

Not applicable.

15) **Chloride salt application, Deicing chloride salt use is restricted to the minimum amount needed for public safety as determined by the Superintendent of Public Works.**

This will be controlled by the Village of Croton-on-Hudson and The Town of Cortlandt.

16) **Any petroleum storage tank(s) installed or replaced after the effective date of this article must be aboveground or fully visible for inspection within the basement or other interior space, and secondary containment is required for all new tanks.**

Not applicable.

230-20.15

1) **Development of wetlands, watercourses, water bodies and buffer areas are to be avoided except where no reasonable alternative exists or where the applicant would otherwise suffer undue hardship if a permit is not issued. In the event such development is approved, impacts shall be minimized to the greatest extent practicable, and a mitigation plan shall be prepared.**

   The project proposes 550 CY of stone fill placed within 2,290 SF below the ordinary high water of the Croton River. In total, 250 LF of the river will be impacted. These are the minimum impacts required for construction access and bridge construction.

2) **All applications for permits to disturb wetlands, watercourses, water bodies and buffer areas in the Indian Brook-Croton Gorge Inter-Municipal Watershed Protection Overlay District shall follow the requirements contained in Chapter 227, Wetlands, of the Village of Croton-on-Hudson Village Code, unless a more stringent or restrictive requirement is listed in this section.**

   See the separate memo regarding Chapter 227.

3) **As a condition of the granting of any wetland permit within the Indian Brook-Croton Gorge Inter-Municipal Watershed Protection Overlay District, the approving authority shall require that the applicant submit a mitigation plan per the requirements listed in Chapter 227, Wetlands, of the Village of Croton-on-Hudson Village Code.**

   No wetlands impacts are proposed. The project proposes the removal of 76 trees in the project area (including 57 within the Village of Croton-on-Hudson) and impacts below the ordinary high water of the Croton River. These impacts include 550 CY of stone fill placed within 2,290 SF. In total, 250 LF of the river will be impacted. Mitigation in the form of tree plantings is proposed.

4) **Within the Indian Brook-Croton Gorge Inter-Municipal Watershed Protection Overlay District, the applicant shall be required to create replacement wetlands or restore, re-create or enhance existing wetlands equal to twice the area of wetland directly impacted.**

   No wetlands impacts are proposed. 100 trees are proposed to be placed in the project area as mitigation.

5) Buffers:

The project proposes the removal of 76 trees in the project area (including 57 within the Village of Croton-on-Hudson). 100 trees are proposed to be placed in the project area as mitigation. Additionally, steep slopes will be protected by rolled erosion control matting and will be vegetated with NYSDOT roadside seed mix, and streambanks will be protected from erosion by heavy stone fill and live stakes up to the 50-year storm water surface elevation plus 1ft.

Please let me know if you require any additional information.