

**Platte Clove Culverts Replacement Project  
Platte Clove Road  
Town of Saugerties, Ulster County, NY  
Environmental Review Record**



**Prepared by Tetra Tech Inc.**  
1999 Harrison Street, Suite 500  
Oakland, CA 94612

**New York State Homes and Community Renewal  
Governor's Office of Storm Recovery**  
38-40 State Street  
Albany, NY 12207

August 30, 2018

## Platte Clove Culverts Replacement Project Environmental Review Record

August 30, 2018

**Project Name:** Replace Culverts at Platte Clove and Wilhelm Road

**Project Location:** Platte Clove & Wilhelm Road, Saugerties, Ulster County, NY

**Federal Agency:** US Department of Housing and Urban Development  
**Responsible Entity:** New York State Homes and Community Renewal

**Responsible Agency's  
Certifying Officer:** Lori A. Shirley, Governor's Office of Storm Recovery, Certifying Officer

**Project Sponsor:** Town of Saugerties  
**Primary Contact:** Fred Costello, Supervisor  
4 High Street  
Saugerties, NY 12477  
(845) 246-2880fcostello@saugerties.ny.us

**Project NEPA Classification:** 24 CFR 58.36 (Environmental Assessment)

<b>Environmental Finding:</b>	<input checked="" type="checkbox"/> Finding of No Significant Impact - The project will not result in a significant impact on the quality of the human environment.
	<input type="checkbox"/> Finding of Significant Impact - The project may significantly affect the quality of the human environment.
<b>Certification</b>	The undersigned hereby certifies that New York State Homes and Community Renewal has conducted an environmental review of the project identified above and prepared the attached environmental review record in compliance with all applicable provisions of the National Environmental Policy Act of 1969, as amended (42 USC Sec. 4321 et seq.) and its implementing regulations at 24 CFR Part 58.
<b>Signature</b>	 Lori A. Shirley

**Environmental  
Assessment Prepared By:** Consultant: **Tetra Tech, Inc.**  
Address: 1999 Harrison Street, Suite 500  
Address: Oakland, CA 94612

### CERTIFICATION OF NEPA CLASSIFICATION

It is the finding of the New York State Housing Trust Fund Corporation that the activity(ies) proposed in its 2014 NYS CDBG-DR project, the culvert replacement project located at Platte Clove Road approximately 0.5-mile northwest of the intersection of Platte Clove Road and Manorville Road constitute a:

Check the applicable classification.

- Exempt as defined in 24 CFR 58.34 (a).
- Categorically Excluded as defined in 24 CFR 58.35(b).
- Categorically Excluded as defined in 24 CFR 58.35(a) and no activities are affected by federal environmental statutes and executive orders [i.e., exempt under 58.34(a)(12)].
- Categorically Excluded as defined in 24 CFR 58.35(a) and some activities are affected by federal environmental statutes and executive orders.
- "Other" neither exempt (24 CFR 58.34(a)) nor categorically excluded (24 CFR 58.35).
- Part or all of the project is located in an area identified as a floodplain or wetland. For projects located in a floodplain or wetland, evidence of compliance with Executive Orders 11988 and/or 11990 is required.

For activities excluding those classified as "Other", attached is the appropriate Classification Checklist (Exhibit 2-4) that identifies each activity and the corresponding citation.



\_\_\_\_\_  
Signature of Certifying Officer

August 30, 2018

\_\_\_\_\_  
Date

Lori A. Shirley  
Director, Bureau of Environmental Review and Assessment  
Governor's Office of Storm Recovery

### CERTIFICATION OF SEQRA CLASSIFICATION

It is the finding of the New York State Housing Trust Fund Corporation that the activity(ies) proposed in its 2014 NYS CDBG-DR project, the culvert replacement project located at Platte Clove Road approximately 0.5-mile northwest of the intersection of Platte Clove Road and Manorville Road constitute a:

Check the applicable classification:

- Type I Action (6NYCRR Section 617.4)
- Type II Action (6NYCRR Section 617.5)
- Unlisted Action (not Type I or Type II Action)

Check if applicable:

- Environmental Impact Statement (EIS) Prepared
  - Draft EIS
  - Final EIS



\_\_\_\_\_  
Signature of Certifying Officer

August 30, 2018

\_\_\_\_\_  
Date

Lori A. Shirley  
Director, Bureau of Environmental Review and Assessment  
Governor's Office of Storm Recovery

**Description of the Proposed Project** [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The Town of Saugerties (Town), Ulster County, New York is proposing to replace two inadequately sized culverts at Platte Clove Road (**Figures 1 and 2**). Platte Clove Road is a two-lane road that provides access between West Saugerties and Tannersville. An unnamed tributary of Plattekill Creek crosses under Platte Clove Road approximately 0.5-mile northwest of the intersection of Platte Clove Road and Manorville Road. The tributary flows through two stacked twenty-four inch diameter corrugated metal culverts approximately 22 feet long (**Figure 3**). The culverts are partially collapsed with the inlets buried, resulting in temporary ponding of water upstream of the Platte Clove Road embankment. The inlet of the lower 24-inch culvert is completely blocked by soil, sediment and debris, which has accumulated at the toe of the road embankment. The inlet of the upper 24-inch culvert is open, but deteriorated to the point of being ineffective to convey water properly, causing infiltration of stormwater through the supporting structure.

The Town proposes to replace the two existing 24-inch corrugated metal pipe culverts with a single 48-inch metal pipe (**Figure 3**). The new culvert will be installed by trenchless directional drilling. The directional drilling process will involve the drilling of an initial pilot hole where the horizontal and vertical alignment is carefully controlled and adjusted as necessary to achieve the design replacement culvert positioning. The pilot drill hole is subsequently reamed out to increase the size of the boring to the required diameter. A heavy duty steel pipe is typically inserted through the boring as the final reaming of the boring is performed. This heavy duty steel pipe then becomes the replacement culvert pipe.

The Project will include the construction of a 10-foot-wide temporary access road from Platte Clove Road running north over the existing culverts, turn to the northeast along the north stream bank to point 100 feet upstream of Platt Clove Road (**Figure 4**). A 14-foot by 30-foot flat drill pad area will be excavated in the stream bed on the east side of Platte Clove Road to accommodate the drilling equipment (**Figure 4**). Temporary retaining walls will be constructed around the drill pad area and the access road. The current supporting structure and Platte Clove Road will be maintained in an open state allowing for traffic during the drilling operations.

The drilling will proceed from the inlet side (east side of Platte Clove Road) to the outlet side (the west side of the road). The new culvert will be installed close to the north side of the existing culverts. A precast concrete headwall, or equivalent, will be constructed on the inlet side of the replacement culvert and a trash rack installed. New riprap will be placed at both the inlet and outlet of the new culvert. The stacked stone headwall on the downstream side of the replacement culvert will be repointed as necessary to secure any loose stones. The old culverts will be filled and left in place. Disturbed stream areas will be regraded and restored with a vegetative cover on the streambanks.

The project is proposed to take place in the dry season. Any water will be collected upstream of the drilling and pumped through a temporary pipeline to a point down stream of Platt Clove Road. The only disruption of traffic will involve movement of heavy equipment. There will be no excavation of the existing road.

**Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:**

In June 2013, Governor Andrew Cuomo set out to centralize recovery and rebuilding efforts in impacted areas of New York State. Although Ulster County was not affected by Hurricane Sandy, this storm was the catalyst for the allocation of disaster relief funds under the Community Development Block Grant – Disaster Recovery (CDBG-DR) award. These funds are being used to assist not only counties that were devastated by Hurricane Sandy, but also counties like Ulster County that were severely impacted by Hurricane Irene and Tropical Storm Lee in 2011. The Governor’s Office of Storm Recovery (GOSR) was established to administer the award funds, address communities’ most urgent needs, and encourage the identification of innovative and enduring solutions to strengthen the State’s infrastructure and critical systems. Operating under the umbrella of New York State Homes and Community Renewal (HCR), GOSR uses approximately \$3.8 billion in flexible funding made available by the US Department of Housing and Urban Development’s (HUD’s) CDBG-DR program to concentrate aid to four main areas: housing recovery, small business, community reconstruction, and infrastructure. Paired with additional federal funding that was awarded to other State agencies, the CDBG-DR program is enabling homeowners, small businesses and entire communities to build back and better prepare for future extreme weather events.

Hurricane Irene, and Tropical Storm Lee strained local drainage infrastructure. During the storms, heavy rainfall caused excessive amounts of stormwater and accompanying detritus to gather at inadequately-sized culverts, particularly in outlying areas of the region. During previous storm events, the culvert infrastructure at Platte Clove Road was unable to adequately pass storm water beneath the road’s surface. Debris carried by stormwater exacerbated this problem. After the culverts' capacity was exceeded, the water left its channel, overtopped the road, eroded road base soils and aggregates, and made the roads impassable during the storms and unsafe afterward. This condition persisted until well after the storms. Flooding also weakened the road base’s capacity to handle the weight of vehicles.

Resizing culverts, in the context of improving storm flow routing, is an important component of reducing flood damage. Replacing an undersized culvert with a larger one increases channel capacity and improves stream function during heavy rain. The long-term benefits of permanent flood mitigation to the roadway ensures continued access to vital services and improves emergency response to areas that may otherwise be cut off during storms. Minimizing damage to the roadway during future flooding will limit rehabilitation and reconstruction costs, reduce maintenance needs, and limit capital expenditures made necessary for storm recovery.

**Standard Conditions for All Projects**

Any change to the approved scope of work will require re-evaluation by the Certifying Officer for compliance with NEPA and other laws and Executive Orders.

This review does not address all federal, state and local requirements. Acceptance of federal funding requires the recipient to comply with all federal state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.

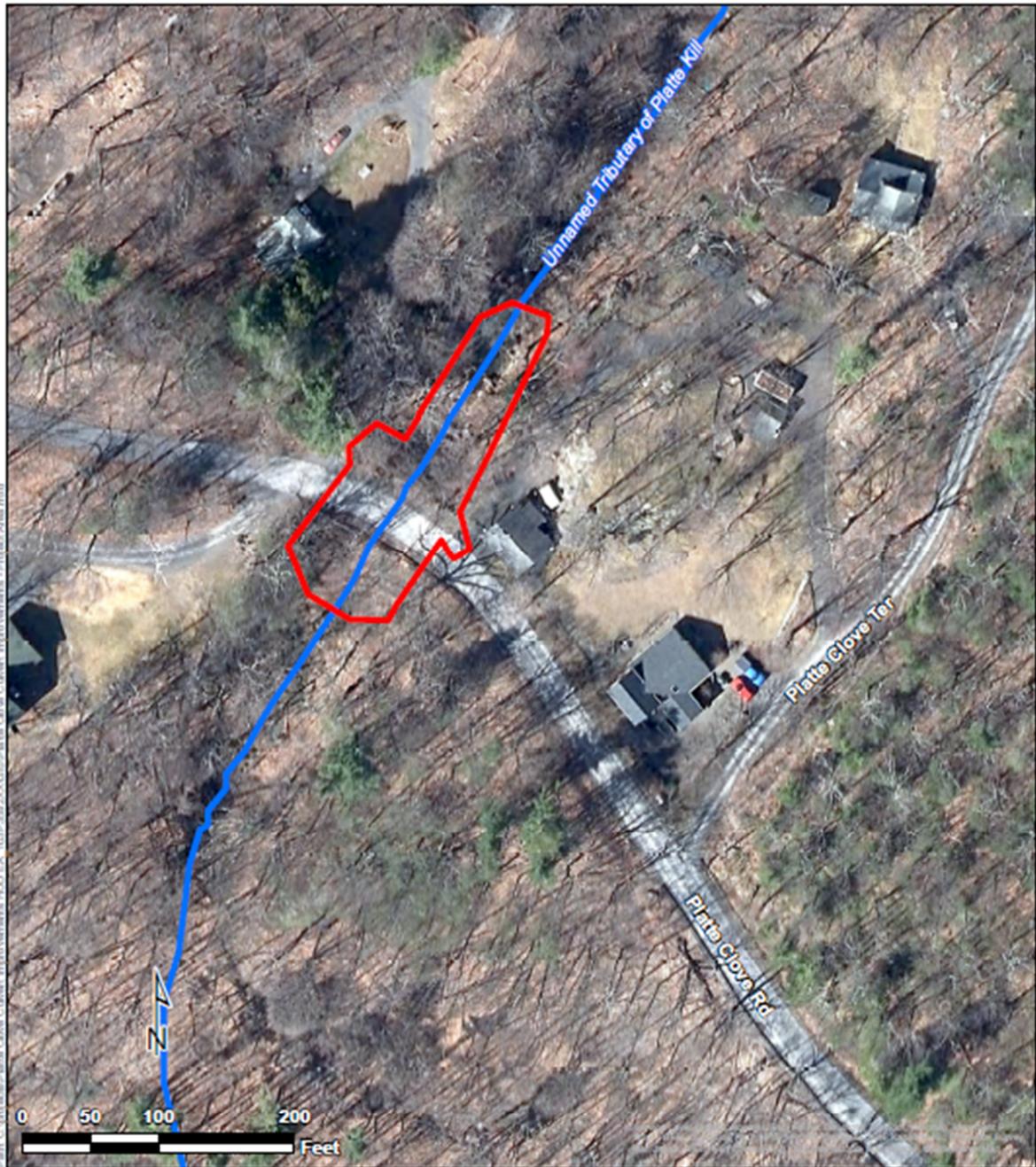
**Funding Information**

**Estimated Total HUD Funded Amount:**  
**\$644,684**

**Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]:**  
**\$644,684**



Figure 1. Project Location



**Project Area**

**Legend**

 Project Area

Platte Clove Culvert Improvements  
Platte Clove Road  
Town of Saugerties  
Ulster County, New York



Figure 2. Project Area

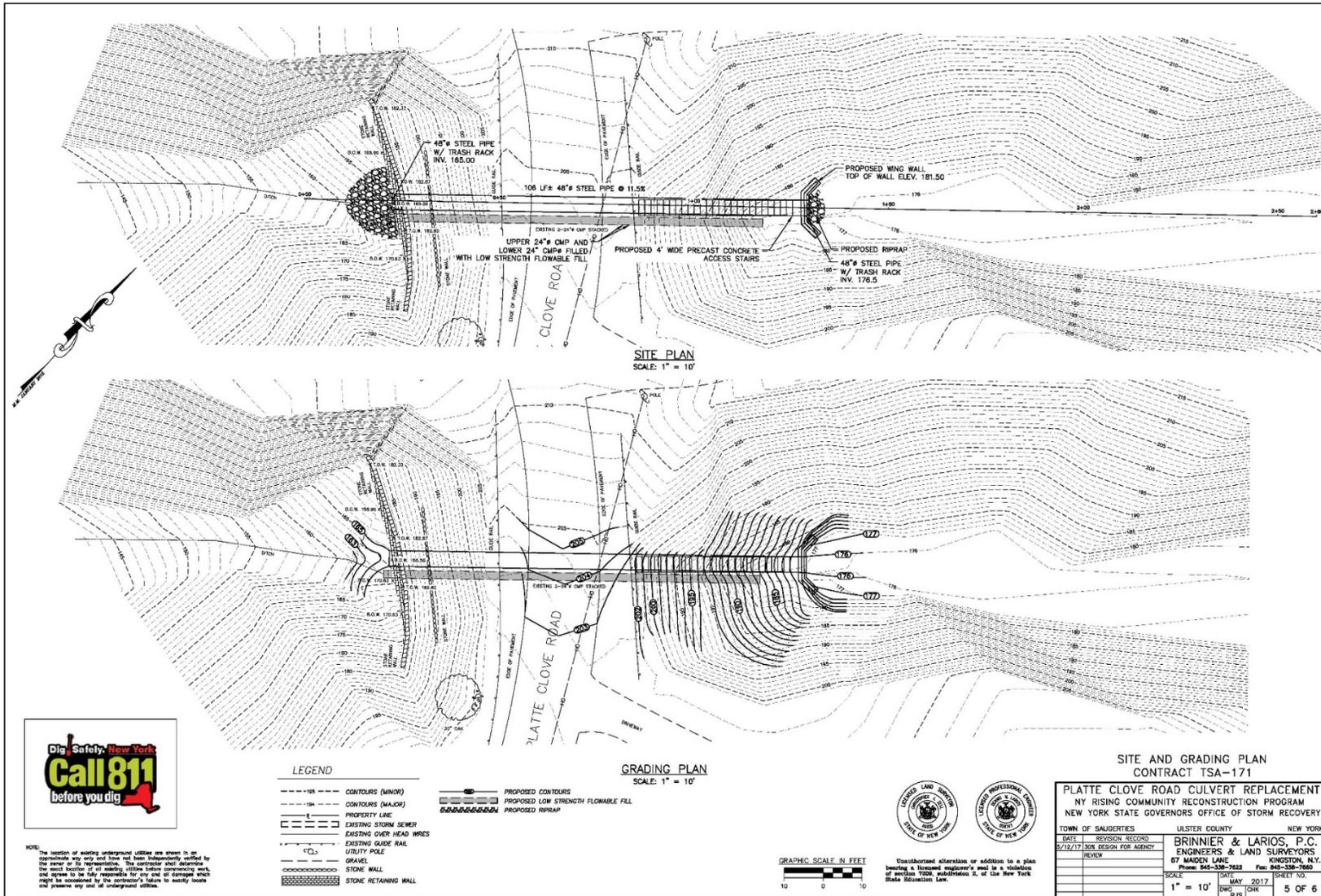


Figure 3. Proposed Site and Grading Plan

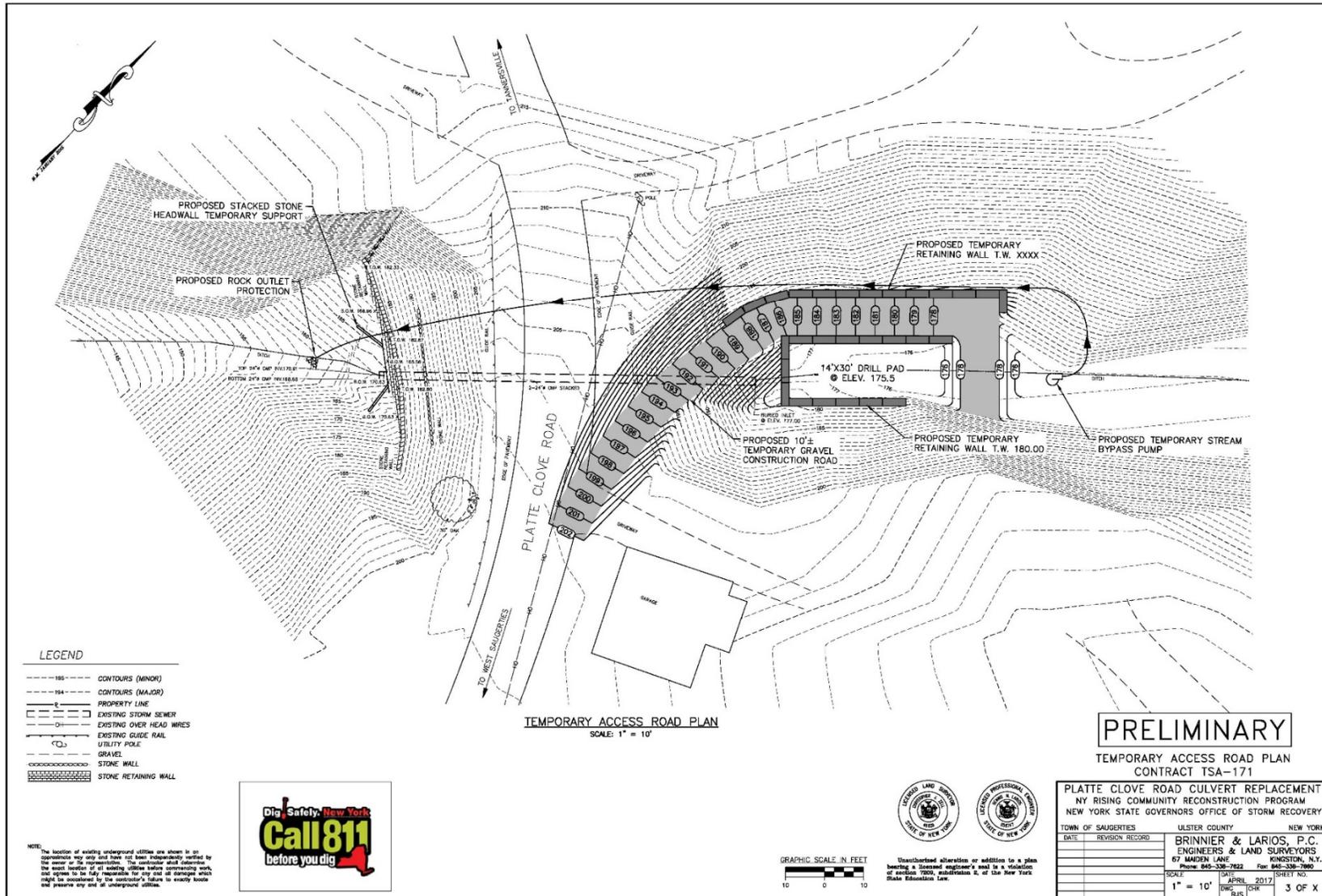


Figure 4. Temporary Access Road Plan

**Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities**

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

<b>Compliance Factors:</b> Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.6</b>		
<b>Airport Hazards</b>  24 CFR Part 51 Subpart D	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	Based on HUD guidance in Fact Sheet #D1, the National Plan of Integrated Airport Systems (NPIAS) was reviewed for civilian, commercial service airports near the Project site, as projects within 2,500 feet of a civil airport require consultation with the appropriate civil airport operator.  There are no civilian, public-use airports within 2,500 feet of the Project site. There are no military airports are within 15,000 feet of the Project site. (See <b>Appendix A</b> )
<b>Coastal Barrier Resources</b>  Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The Project site is not in a Coastal Barrier Resources Area as defined by the state’s Coastal Zone Management Program. (See <b>Appendix A</b> )
<b>Flood Insurance</b>  Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The Project site is outside the 100-year flood zone, as shown on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Number 36111C0285E, dated September 25, 2009. (See <b>Appendix B</b> ). The Project will not require flood insurance.

<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5</b>		
<p><b>Clean Air</b></p> <p>Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The Project site is not located in a nonattainment or maintenance area as defined by the US Environmental Protection Agency (EPA) Green Book Nonattainment Areas for Criteria Pollutants. (See <b>Appendix A</b>)</p> <p>The Project will not require an NYS Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit. The Project activities will not substantively affect air quality.</p> <p>The Project size is consistent with the New York State Implementation Plan (SIP) as it will not involve new sources.</p> <p><b>Source: 2</b></p>
<p><b>Coastal Zone Management</b></p> <p>Coastal Zone Management Act, sections 307(c) &amp; (d)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The Project site is not located in a coastal zone as defined by the state's Coastal Zone Management Program or a Local Waterfront Revitalization Program. (See <b>Appendix A</b>)</p>
<p><b>Contamination and Toxic Substances</b></p> <p>24 CFR Part 50.3(i) &amp; 58.5(i)(2)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>No hazardous or solid waste or no underground storage tanks (USTs) are present on the property.</p> <p>A search of the NYSDEC Bulk Storage Program Database identified zero petroleum bulk storage facilities within one mile of the Project site. (See <b>Appendix A</b>)</p> <p><b>Source: 3</b></p> <p>A search of the NYSDEC Remedial Site Database, containing records of the sites being addressed under one of DER's remedial programs (State Superfund, Brownfield Cleanup, Environmental Restoration and Voluntary Cleanup, the Registry of Inactive Hazardous Waste Disposal Sites, and Institutional and Engineering Controls), identified zero sites within one mile of the Project site. (See</p>

		<p><b>Appendix A)</b> The Project site was not identified in NYSDEC Remedial Site Database.</p> <p><b>Source: 4</b></p> <p>The Project will not result in the exposure of people or sensitive environmental resources to the facilities identified in these databases.</p> <p><b>Asbestos-Containing Material (ACM) and Lead-Based Paint (LBP)</b></p> <p>The existing materials of the corrugated pipe would not contain ACM and LBP and would therefore not be a concern for this project.</p> <p><b>Polychlorinated Biphenyls (PCBs)</b></p> <p>PCBs do not appear to be a concern for this project.</p> <p><b>Mold</b></p> <p>This would be a non-residential project and therefore mold would not be a concern for this project.</p> <p><b>Radon</b></p> <p>This would be a non-residential project and therefore radon would not be a concern for this project.</p>
<p><b>Endangered Species</b></p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>On June 6, 2018, GOSR consulted with the US Fish and Wildlife Service (USFWS). Project activities include the removal of 19 trees to access the culverts to be replaced. Tree removal is anticipated to occur during late summer, after the June through July pup season. A Phase I Habitat Assessment was conducted by Amanda Bailey (NYSDEC) on April 25, 2018. Of the 19 trees to be removed, it was determined that only one tree has the potential for roosting, as it has exfoliating bark and a broken top. GOSR proposed to conduct an emergence survey of this tree the evening prior to scheduled</p>

		<p>removal to determine the presence or absence of bats. If no bats are observed during the emergence study, tree cutting will be completed the following day. If bats are observed emerging from the tree to be removed, GOSR will contact USFWS immediately for further assistance. Tree removal activities will be postponed until mitigation actions can be implemented that eliminate any incidental takes or adverse impacts to the listed bat species.</p> <p>As such, GOSR determines that this project may affect but is not likely to adversely affect the NLEB or Indiana bat and would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat.</p> <p>GOSR requested concurrence from USFWS within 30 days of the consultation, adding that USFWS’s concurrence would be presumed if no response was received. As of this date, no response has been received, and concurrence is presumed.</p> <p>In response to a March 26, 2018 New York Natural Heritage Program (NYNHP) inquiry regarding potential rare or state-listed animals or plants near the Project site, the NYNHP on March 29, 2018, replied that there are no records of concern for rare or state-listed animals or plants, or significant natural communities at the Project site or in its immediate vicinity.</p> <p>No impact to endangered or threatened species is anticipated from the Project. (See Appendix C)</p>
<p><b>Explosive and Flammable Hazards</b></p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The Project would not introduce housing or sensitive public use at the site that could be exposed to explosive or flammable hazards.</p>
<p><b>Farmlands Protection</b></p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The soils on the site are not identified as prime farmland.</p>

<p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>		<p>The amount of land falls under the Natural Resources Conservation Service small acreage exemption of 3 acres or less. According to Part 523.11 E of the Farmland Protection Policy Act (FPPA) Manual. (See <b>Appendix A</b>)</p> <p><b>Source: 5</b></p>
<p><b>Floodplain Management</b></p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes No  <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The Project site is outside the 100-year floodplain as shown on the FEMA FIRM Community Panel Number 36111C0285E, dated September 25, 2009. (See <b>Appendix B</b>).</p>
<p><b>Historic Preservation</b></p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800; Tribal notification for new ground disturbance.</p>	<p>Yes No  <input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>Consultation with the New York State Historic Preservation Office (SHPO) and the Division for Historic Preservation (DHP) in the Office of Parks, Recreation and Historic Preservation (OPRHP) in accordance with Section 106 of the National Historic Preservation Act of 1966 was initiated through the Cultural Resource Information System.</p> <p>In a letter dated December 12, 2016, the SHPO indicated that it had determined that there would be No Historic Properties Affected by the Project. (See <b>Appendix D</b>)</p> <p>The Delaware Tribe of Indians, Delaware Nation, Mohawk Nation, St. Regis Mohawk Tribe, and Stockbridge-Munsee Community, Band of the Mohicans were contacted as possible consulting parties. Each was sent a letter on December 9, 2016, with the site description, photographs, site plan, and map. The Stockbridge-Munsee Community responded on December 29, 2016 that they were unaware of any cultural resources and did not have cultural resource concerns within the project area. The Delaware Tribe responded with a request for a Phase I archaeological survey. A survey of the project site was conducted on August 15,</p>

		<p>2018 and found no evidence of cultural resources. A Phase I survey report was submitted to the Tribe Historic Preservation Officer (THPO) on August 22, 2018.</p> <p>On August 24, 2018, the THPO for the Delaware Tribe confirmed that there would be no impacts to cultural resources and cleared the project for construction. (See <b>Appendix E</b>)</p>
<p><b>Noise Abatement and Control</b></p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>The proposed Project is not a noise-sensitive use, and the policies of 24 CFR 51.101(a)(3) do not apply to any action or emergency assistance under disaster assistance provisions or appropriations that are provided to save lives and protect public health and safety.</p>
<p><b>Sole Source Aquifers</b></p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>The Project area is not within the bounds of a Sole Source Aquifer Designated Area. (See <b>Appendix A</b>)</p>
<p><b>Wetlands Protection</b></p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>   <input type="checkbox"/></p>	<p>A review of the National Wetlands Inventory (NWI) and NYS Freshwater Wetland databases showed the unnamed tributary of Plattekill Creek that runs through the site is classified as a jurisdictional, federal wetland (riverine, R3UBH). The February 1, 2017, consultation with the NYSDEC indicated that the project site was not within a NYS protected freshwater wetland, but that the stream is Class A with a Protected status, and the project would require a Protection of Waters Permit.</p> <p>The culvert replacement project will disturb less than one acre of land. The proposed culvert replacement work will not be performed in any designated Federal wetland or NYSDEC Freshwater Wetland areas.</p> <p>A joint application for a NYSDEC Stream Disturbance Permit and a USACE 401 Water</p>

		<p>Quality Certification was submitted on April 19, 2018. The project would be performed in accordance with USACE Nationwide Permit NWP-3a. On August 10, 2018, NYSDEC issued a permit (GP-3-18-001) for the project, authorizing Article 24, Freshwater Wetlands; Article 15, Stream Disturbance; Article 15, Excavation and Fill; and Water Quality Certification under Section 401 of the Clean Water Act.</p> <p>A 5-step analysis is provided for this project site as an improvement of an existing structures that does not meet the thresholds for “substantial improvement” under §55.2(b)(10) and where the footprint of the structure and paved areas is not significantly increased. The streambed would be temporarily disturbed by construction of the Project. The flow of the waterway is already modified by the existing culverts at the site.</p> <p>The project would be performed in accordance with USACE Nationwide Permit NWP-3a. (See <b>Appendix F</b>)</p> <p><b>Source: 6</b></p>
<p><b>Wild and Scenic Rivers</b></p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>There are no state or federally designated wild and scenic rivers at or near the Project. (See <b>Appendix A</b>)</p>
<p><b>Environmental Justice</b></p> <p>Executive Order 12898</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>Because this culvert replacement Project has no potential adverse impacts, there would be no disproportionate adverse impacts anticipated. The proposed Project would follow local ordinances, so no adverse impacts on the surrounding community would be anticipated.</p> <p>The Project site is not within a potential Environmental Justice (EJ) area, as defined</p>

		<p>by NYSDEC based on data from the 2010 U.S. Census (See <b>Appendix A</b>).</p> <p>The Project would not raise EJ issues and would have no potential for new or continued disproportionately high and adverse human health and environmental effects on minority or low-income populations.</p>
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**Environmental Assessment Factors** [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits or approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

**Impact Codes:** Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact – May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>LAND DEVELOPMENT</b>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	<p>The Project will not require the acquisition of new land. The property is currently owned by the Town of Saugerties. The new culverts will comply with all Town planning requirements.</p> <p>The Project is consistent with goals and funding priorities identified in the New York Rising Community Reconstruction (NYRCR) County of Ulster. The development will incorporate resiliency measures under</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
		<p>the NYS Building Code and those in the Resiliency Tool Kit.</p> <p><b>Source: 7</b></p>
<p>Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff</p>	<p>1</p>	<p>The soil complex of the site is described as Oquaga-Arnot-Rock (ORC), 8 to 15 percent slopes (100%). Drainage for ORC is described as well drained. Oquaga complex is listed as Class C Hydrologic Soils, while Arnot is listed as Class D. Both Class C and Class D soils are described as those that have a slow infiltration rate (high runoff potential) when thoroughly wet. Surface Water Management rating is based on soils in their natural condition and do not consider present land use. A Surface Water Management rating is not available for the site.</p> <p>The project will disturb less than one acre. On August 10, 2018, NYSDEC issued a permit (GP-3-18-001) for the project, authorizing Article 24, Freshwater Wetlands; Article 15, Stream Disturbance; Article 15, Excavation and Fill; and Water Quality Certification under Section 401 of the Clean Water Act.</p> <p>A NYSDEC GP-Resizing culverts, in the context of improving storm flow routing, is an important component of reducing flood damage. The long-term benefits of permanent flood mitigation to the roadway ensures continued access to vital services and improves emergency response to areas that may otherwise be cut off during storms. Minimizing damage to the roadway during future flooding will limit rehabilitation and reconstruction costs, reduce maintenance needs, and limit capital expenditures made necessary for storm recovery.</p> <p><b>Source: 5</b></p>
<p>Hazards and Nuisances including Site Safety and Noise</p>	<p>2</p>	<p>The Project site is not in a 100- or a 500-year flood hazard area. No other known natural hazards, including earthquake fault zones, landslide zones, or hazardous terrain, are known to exist at or near the Project site.</p> <p>The Project will generate noise during construction that will be minimized through compliance with local noise</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
		ordinances, including time-of-day work limitations. Exterior construction activities will take place during normal working hours and will employ commonly accepted engineering and administrative controls that will minimize noise impacts to neighbors.
Energy Consumption	2	The Project will not result in additional energy consumption. No impacts will occur to existing nearby suppliers.
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	2	There may be a temporary minor increase in employment during construction and no increase in long-term employment.
Demographic Character Changes, Displacement	2	The Project site would not change from its current use. Therefore, no population changes will result, there will be no demographic, character, or displacement impacts.
<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	Because the Project involves no changes in population, there would be no impact on demand for educational or cultural facilities.
Commercial Facilities	2	Because the Project involves no changes in population, there would be no impact on demand for commercial facilities.
Health Care and Social Services	2	Because the Project involves no changes in population, there would be no impact on demand for health care and social services.
Solid Waste Disposal / Recycling	2	Construction may result in a temporary increase in solid waste. Construction debris of wood, piping, and other materials would be collected on-site and disposed of or recycled per any local ordinances.
Waste Water / Sanitary Sewers	2	Because the Project involves no changes in population, there would be no additional demand on a public sewer system.

Environmental Assessment Factor	Impact Code	Impact Evaluation
Water Supply	2	Because the Project involves no changes in population, there would be no additional demand on a public water supply system.
Public Safety - Police, Fire and Emergency Medical	2	Because the Project involves no change in population, there would be no impact on demand for police, fire, or emergency medical services.
Parks, Open Space and Recreation	2	Because the Project involves no change in population, there would be no impact on demand for parks, open space, or other recreational facilities.
Transportation and Accessibility	2	Because the Project involves no change in population, there would be no impact on use of transportation infrastructure.
<b>NATURAL FEATURES</b>		
Unique Natural Features, Water Resources	2	<p>The Project site is on previously disturbed land and contains no unique natural features. An unnamed tributary of Plattekill Creek runs through the Project area (See <b>Appendix F</b>). NYSDEC lists it as a Class A water (DEC Water Index Number H-171-11-16). Its status is listed as “protected.” The project would follow USACE Nationwide Permit NWP-3a. On August 10, 2018, NYSDEC issued a permit (GP-3-18-001) for the project, authorizing Article 24, Freshwater Wetlands; Article 15, Stream Disturbance; Article 15, Excavation and Fill; and Water Quality Certification under Section 401 of the Clean Water Act.</p> <p><b>Source: 6</b></p>
Vegetation, Wildlife	2	<p>Project activities include the removal of 19 trees to access the culverts to be replaced. Tree removal is anticipated to occur during late summer, after the June through July pup season. A Phase I Habitat Assessment was conducted by Amanda Bailey (NYSDEC) on April 25, 2018. Of the 19 trees to be removed, it was determined that only one tree has the potential for roosting, as it has exfoliating bark and a broken top. GOSR proposed to conduct an emergence survey of this tree the evening prior to scheduled removal to determine the presence or absence of bats. If no bats are observed during the emergence</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
		<p>study, tree cutting will be completed the following day. If bats are observed emerging from the tree to be removed, GOSR will contact USFWS immediately for further assistance. Tree removal activities will be postponed until mitigation actions can be implemented that eliminate any incidental takes or adverse impacts to the listed bat species.</p> <p>As such, GOSR determines that this project may affect but is not likely to adversely affect the NLEB or Indiana bat and would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat.</p> <p>GOSR requested concurrence from USFWS within 30 days of the consultation, adding that USFWS's concurrence would be presumed if no response was received. As of this date, no response has been received, and concurrence is presumed. (See <b>Appendix C</b>).</p>
Other Factors	2	No additional factors would be impacted by the project, and no additional impacts would occur.

**Additional Studies Performed:**

Report for Phase 1 Archaeological Testing, August 2018

**Field Inspection** (Date and completed by):

Phase I Habitat Assessment, Amanda Bailey (NYSDEC), April 25, 2018

Phase 1 Archeological Filed survey, August 15, 2018

**List of Sources, Agencies and Persons Consulted** [40 CFR 1508.9(b)]:

1. New York State. 2013. State of New York Action Plan for Community Development Block Grant Program Disaster Recovery (Action Plan, issued April 25, 2013, amended July 3, 2013) New York State. 2013.
2. United States Environmental Protection Agency. Green Book Nonattainment Areas. Internet Website: <https://www3.epa.gov/airquality/greenbk/ancl.html>.
3. New York State Department of Environmental Conservation Bulk Storage Database Search. Internet Website: <http://www.dec.ny.gov/cfm/external/derexternal/index.cfm?pageid=4>.
4. New York State Department of Environmental Conservation Environmental Site Remediation Database Search. Internet Website: <http://www.dec.ny.gov/cfm/external/derexternal/index.cfm?pageid=3>.

5. United States Department of Agriculture. Natural Resources Conservation Service. Internet Website: <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>.

6. Stream Disturbance Permit Application. 2018. Joint Application Form. Brinnier and Larios, P.C. Professional Engineers & Land Surveyors (on behalf of Town of Saugerties). April 19.

7. NYRCR Ulster Communities. 2014. NY Rising Community Reconstruction Plan. March. [https://stormrecovery.ny.gov/sites/default/files/crp/community/documents/ulstercounty\\_nyrcr\\_plan.pdf](https://stormrecovery.ny.gov/sites/default/files/crp/community/documents/ulstercounty_nyrcr_plan.pdf).

### **List of Appendices**

- Appendix A Figures
- Appendix B Floodplains
- Appendix C USFWS, NYSDEC, and NYNHP Correspondence
- Appendix D SHPO Correspondence
- Appendix E Tribal Correspondence
- Appendix F Wetlands

### **List of Permits Obtained or Required:**

- USACE Nationwide Permit NWP-3a
- Water Quality Certification under Section 401 of the Clean Water Act
- NYSDEC Article 24, Freshwater Wetlands permit
- NYSDEC Article 15, Stream Disturbance permit
- NYSDEC Article 15, Excavation and Fill permit
- 

### **List of Other Approvals Obtained or Required:**

- State Environmental Quality Review Act (SEQRA).

### **Public Outreach [24 CFR 50.23 & 58.43]:**

On August 30, 2018, a combined Notice of Finding of No Significant Impact and Intent to Request Release of Funds was published in the Saugerties Times. Any individual, group, or agency may submit written comments on the Environmental Review Record to:

Lori A. Shirley, GOSR, HCR  
38-40 State Street  
Albany, NY 12207  
(518) 474-0755  
NYSCDBG\_DR\_ER@nyshcr.org

**Cumulative Impact Analysis [24 CFR 58.32]:**

The Project is not expected to trigger cumulative impacts, including the degradation of important natural resources, socioeconomic resources, human health, recreation, quality of life issues, and cultural and historic resources. The Project is not of a scale large enough to contribute significantly to cumulative impacts. It will create positive impacts, as it will provide the Town of Saugerties with improved storm water management and flood control during future storm events.

**Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]**

**Proposed Project.** As fully described in this Environmental Assessment, the Project would involve constructing a new culvert located at Platte Clove Road in the Town of Saugerties, Ulster County, New York.

**Alternative Sites Alternative.** Alternate sites were not considered.

**No Action Alternative [24 CFR 58.40(e)]:**

Not undertaking the Project would not be consistent with the goals and objectives of the Ulster County NYRCR Plan and other local and state plans because the Town of Saugerties would not be able to efficiently increase flood control and improve storm water management systems.

**Summary of Findings and Conclusions:**

The new 48-inch metal culvert will improve and enhance the critical functions of the existing, damaged 24-inch corrugated metal pipe culverts, allowing for more efficient storm water management and flood control in response to extreme storm events. The proposed Project will not result in a significant impact on the quality of the human environment or result in other direct, indirect, or cumulative impacts. The Project will comply with all relevant regulations listed in 24 CFR subparts 58.5 and 58.6.

**Mitigation Measures and Conditions [40 CFR 1505.2(c)]**

GOSR has summarized below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures or conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
Water Resources	A Protection of Waters permit is required to physically disturb the bed or banks (up to 50 feet from stream) of any streams identified above as "protected."
Wetlands Protection	<p>A joint application to NYSDEC and the US Army Corps of Engineers (USACE) for a permit to undertake activities affecting streams, waterways, water bodies, wetlands, coastal areas and sources of water withdrawal has been submitted for the Project. The Project will abide by all conditions set forth in this permit.</p> <p>The Project will comply with NYSDEC regulations pursuant to Article 15 (Protection of Water) and subsequent Stream Crossing Guidelines and Best Management Practices.</p>

**Determination:**

**Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]  
 The project will not result in a significant impact on the quality of the human environment.

**Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]  
 The project may significantly affect the quality of the human environment.

Preparer Signature:  Date: August 30, 2018

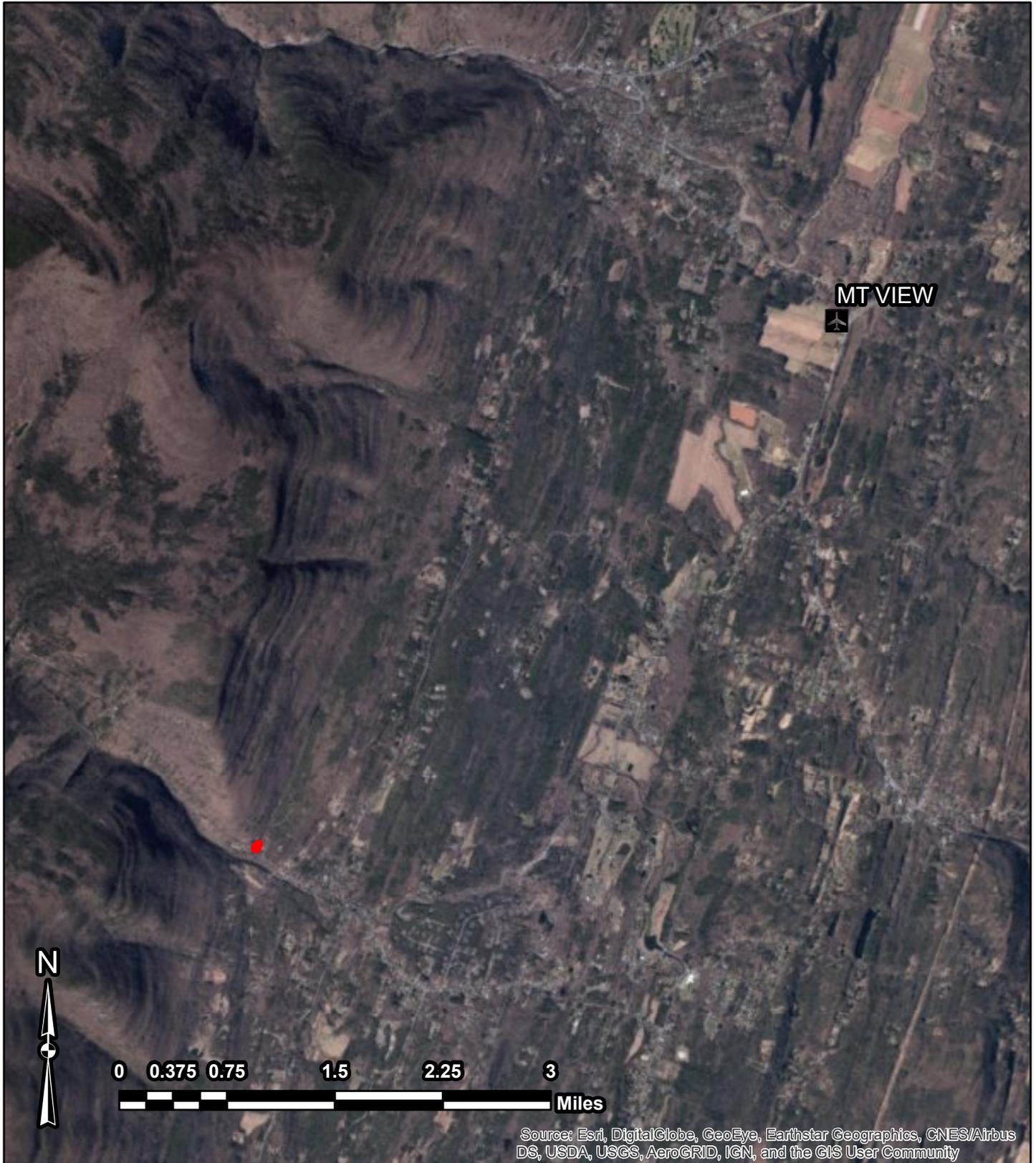
Name/Title/Organization: Cliff Jarman, Senior Environmental Scientist. Tetra Tech, Inc.

Certifying Officer Signature:  Date: August 30, 2018  
 Name/Title: Lori A. Shirley, Director, Bureau of Environmental Review and Assessment,  
 Governor's Office of Storm Recovery

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

GOSR Environmental Review Record  
Platte Clove Culverts Replacement, Town of Saugerties, NY  
Page 27 of 27 (plus 134 pages of attachments)

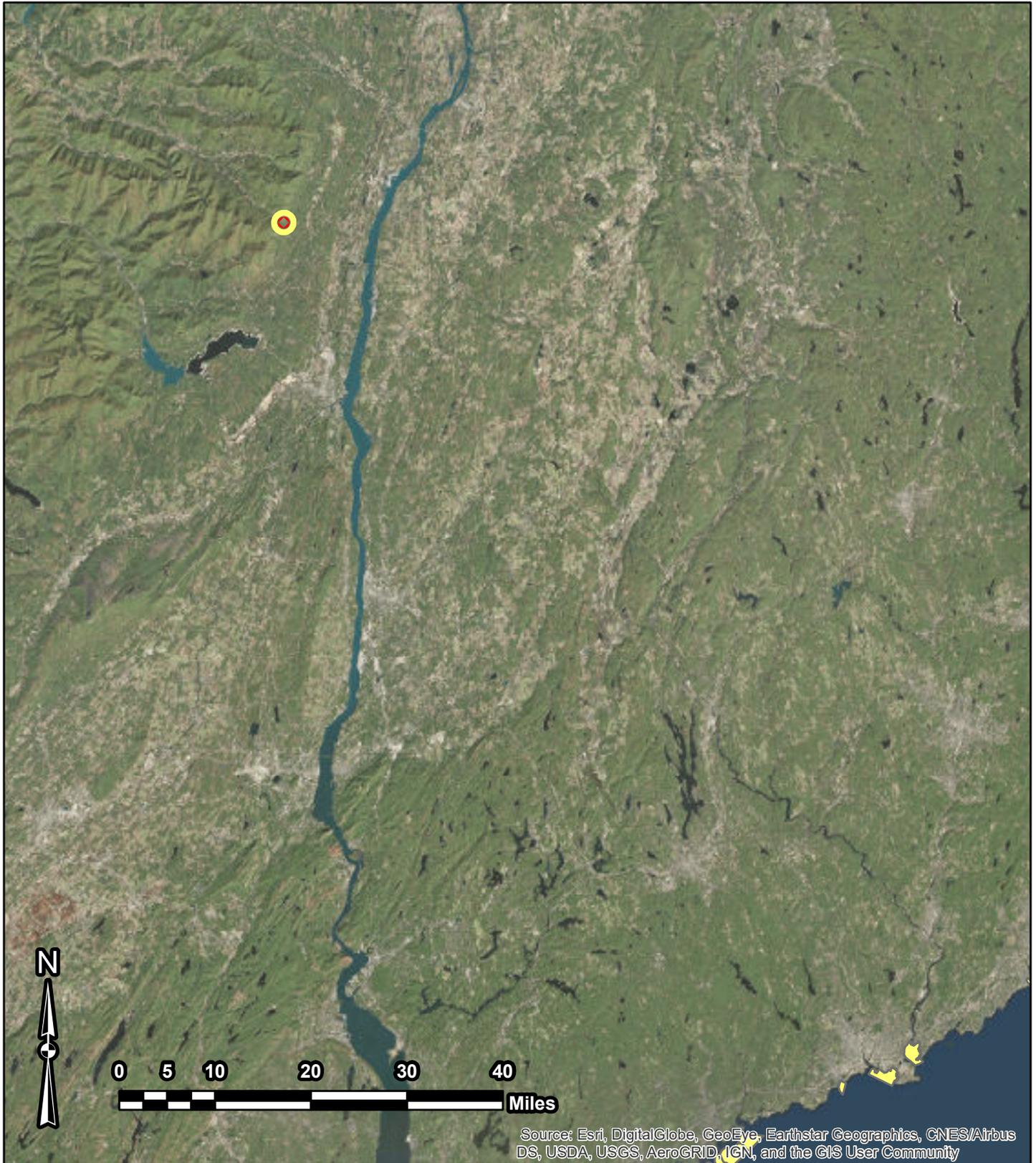
**APPENDIX A**  
**FIGURES**



**Legend**

-  *Project Area*
-  *Airports*

**Airports**  
**Platte Clove Culvert Improvements**  
**Platte Clove Road**  
**Town of Saugerties**  
**Ulster County, New York**



## Legend

-  *Project Area*
-  *One Mile Project Area Buffer*
-  *Coastal Barrier Resources*

## Coastal Barrier Resources

Platte Clove Culvert Improvements

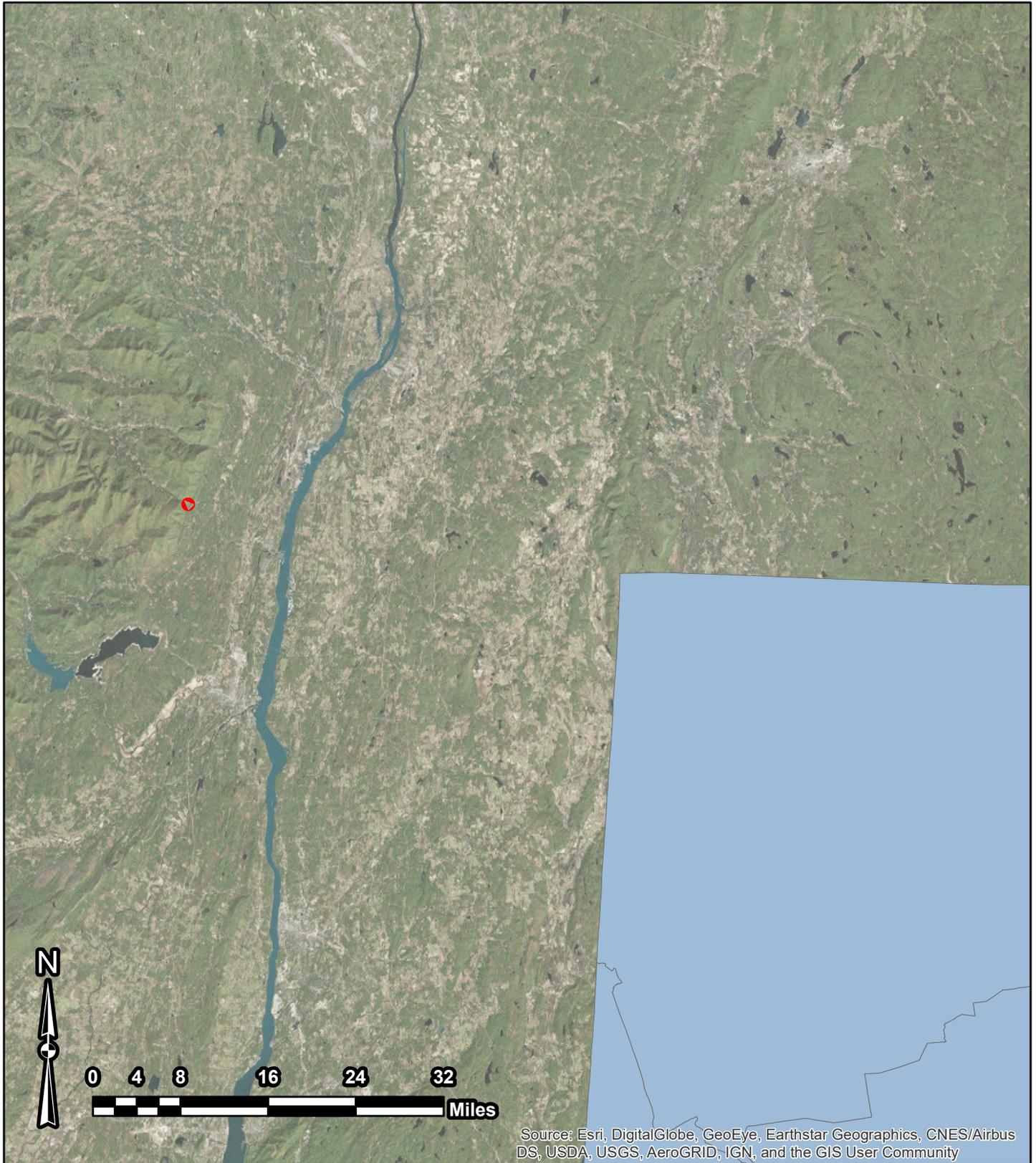
Platte Clove Road

Town of Saugerties

Ulster County, New York



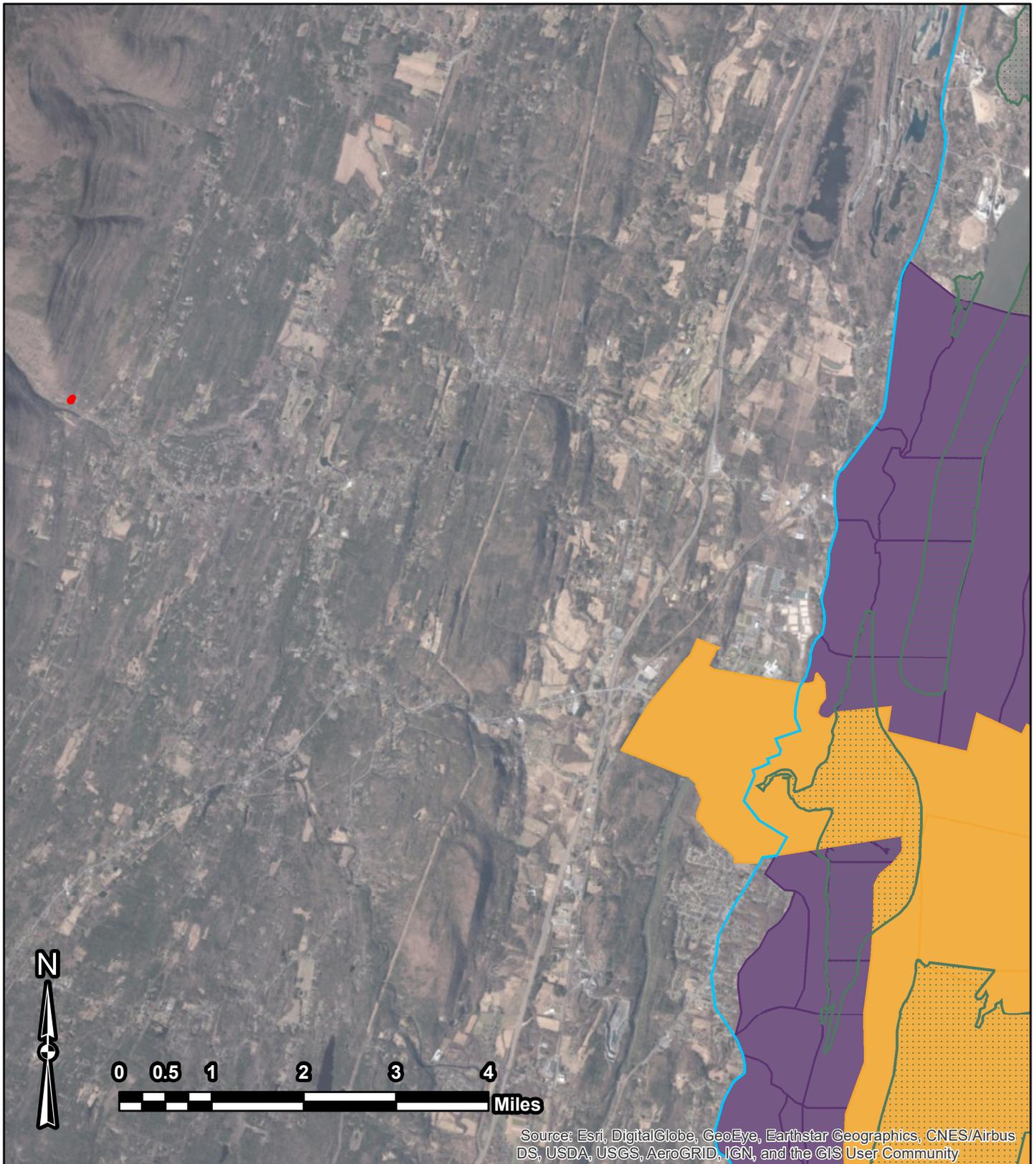
**PARS ENVIRONMENTAL, INC.**  
500 HORIZON DRIVE SUITE 540 ROBBINSVILLE, NEW JERSEY



**Legend**

- Project Area*
- Ozone 8hr 2008 Standard NAA*

**Nonattainment Areas**  
 Platte Clove Culvert Improvements  
 Platte Clove Road  
 Town of Saugerties  
 Ulster County, New York



**Legend**

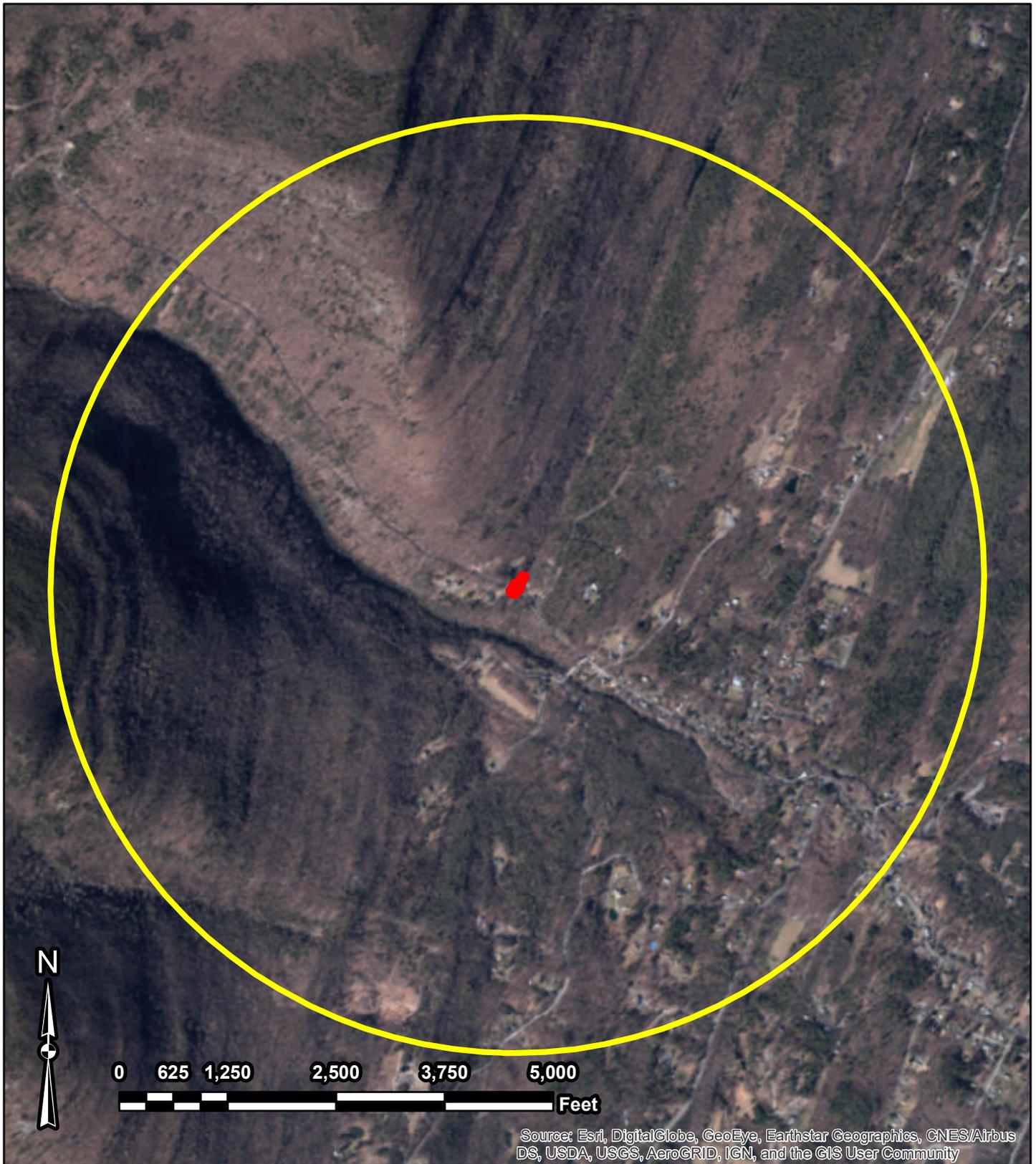
- Project Area*
- Landward Coastal Boundary
- Significant Coastal Fish and Wildlife Habitats
- Local Waterfront Revitalization Program Communities
- Scenic Areas

**Coastal Zones**

**Platte Clove Culvert Improvements  
Platte Clove Road  
Town of Saugerties  
Ulster County, New York**



**PARS ENVIRONMENTAL, INC.**  
500 HORIZON DRIVE SUITE 540 ROBBINSVILLE, NEW JERSEY

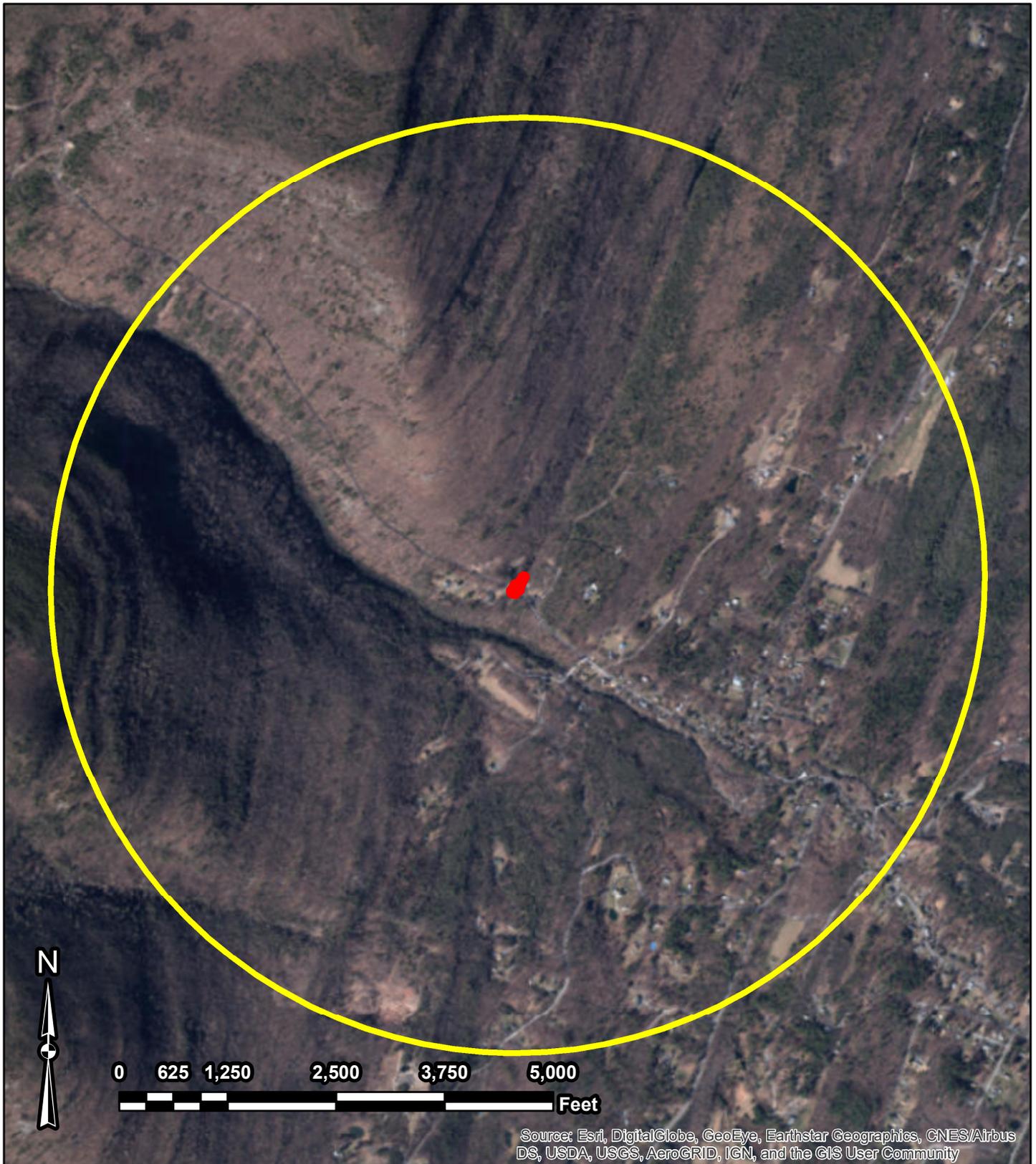


**Legend**

-  *Project Area*
-  *One Mile Project Area Buffer*

**Bulk Storage Facilities**

Platte Clove Culvert Improvements  
 Platte Clove Road  
 Town of Saugerties  
 Ulster County, New York



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

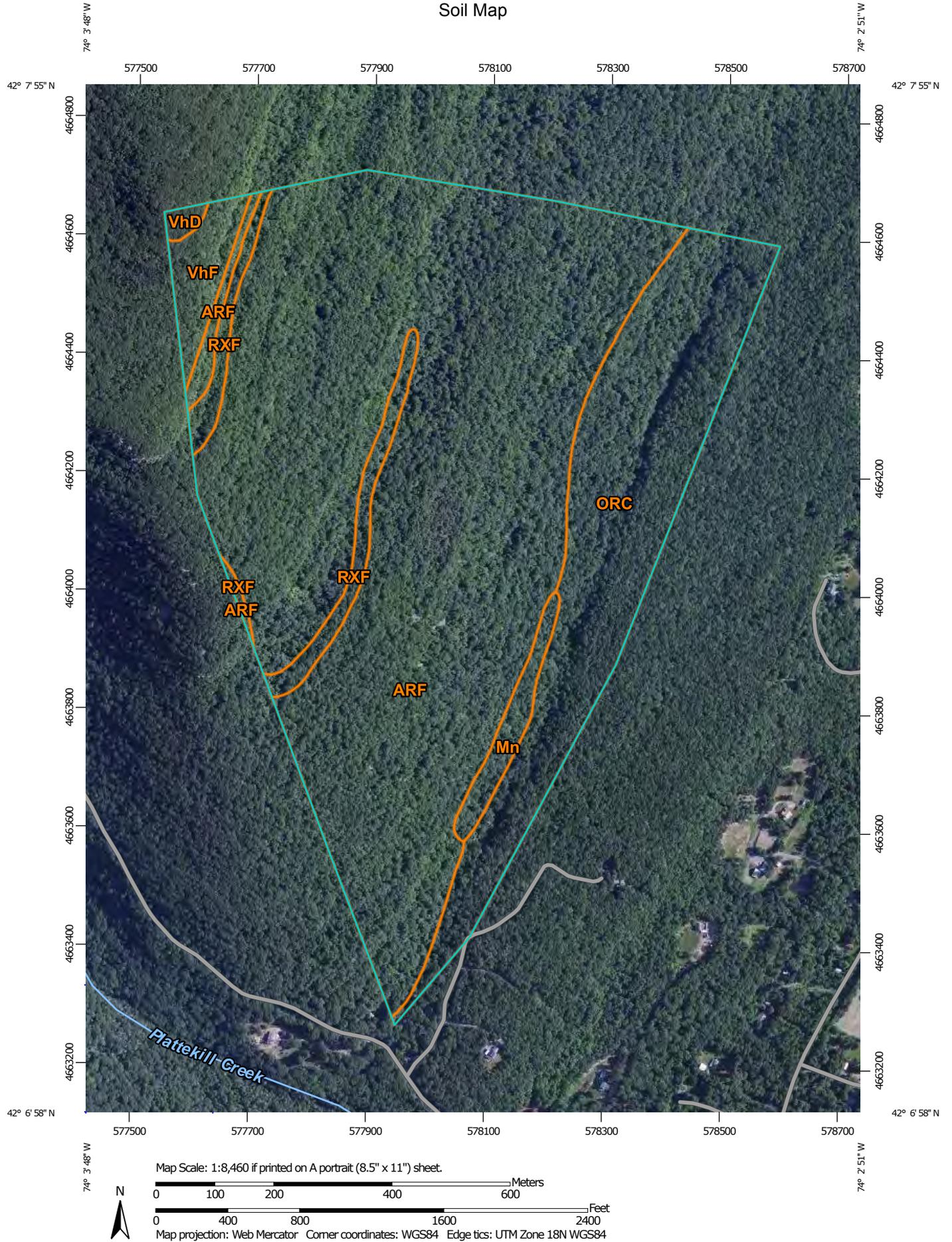
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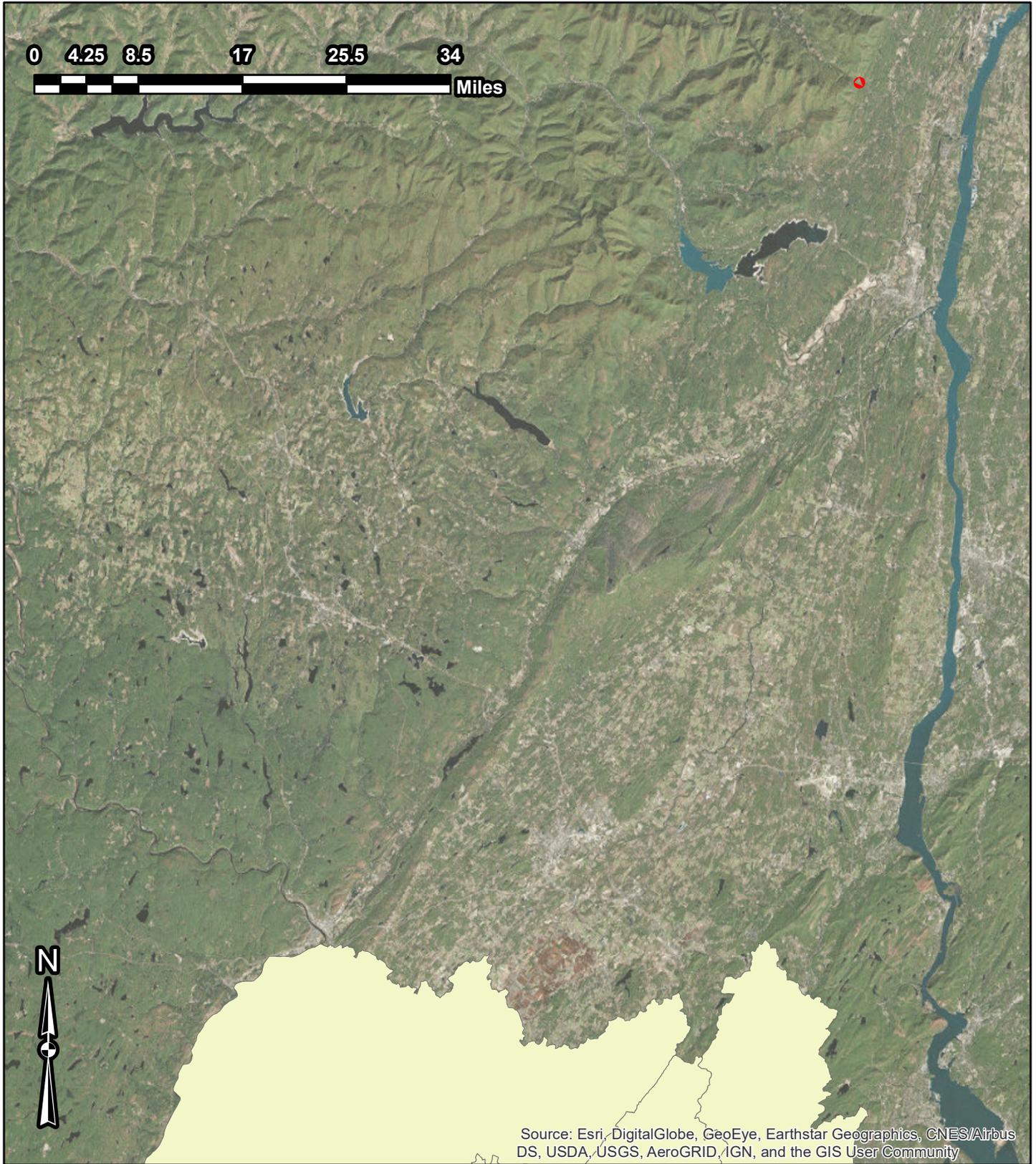
-  *Project Area*
-  *One Mile Project Area Buffer*

**Remediation Sites**  
Platte Clove Culvert Improvements  
Platte Clove Road  
Town of Saugerties  
Ulster County, New York

 **PARS ENVIRONMENTAL, INC.**  
500 HORIZON DRIVE SUITE 540 ROBBINSVILLE, NEW JERSEY

# Custom Soil Resource Report Soil Map





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**Legend**

- Project Area*
- Sole Source Aquifers*

**Sole Source Aquifers**  
**Platte Clove Culvert Improvements**  
**Platte Clove Road**  
**Town of Saugerties**  
**Ulster County, New York**

 **PARS ENVIRONMENTAL, INC.**  
 500 HORIZON DRIVE SUITE 540 ROBBINSVILLE, NEW JERSEY



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

### Legend

-  *Project Area*
-  Wild and Scenic Rivers

**Wild and Scenic Rivers**  
Platte Clove Culvert Improvements  
Platte Clove Road  
Town of Saugerties  
Ulster County, New York



## Legend

- Project Area*
- Environmental Justice Areas

## Environmental Justice Areas

Platte Clove Culvert Improvements

Platte Clove Road

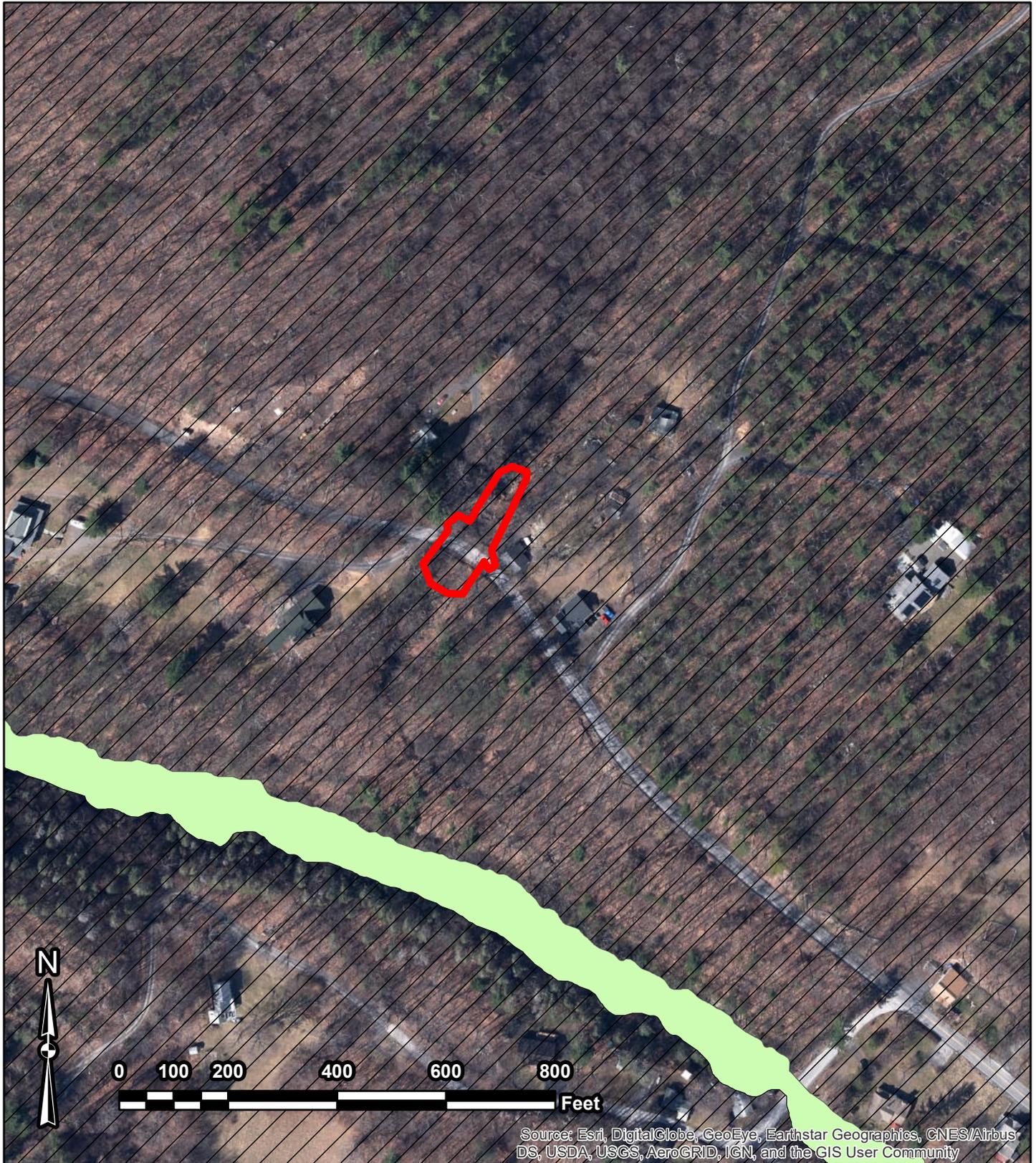
Town of Saugerties

Ulster County, New York

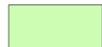


**PARS ENVIRONMENTAL, INC.**  
500 HORIZON DRIVE SUITE 540 ROBBINSVILLE, NEW JERSEY

**APPENDIX B  
FLOODPLAINS**



**Legend**

-  *Project Area*
-  Zone AE- within the 1% annual chance flood
-  Zone X - area of minimal flood hazard

**Flood Zones**

Platte Clove Culvert Improvements  
 Platte Clove Road  
 Town of Saugerties  
 Ulster County, New York

 **PARS ENVIRONMENTAL, INC.**  
 500 HORIZON DRIVE SUITE 540 ROBBINSVILLE, NEW JERSEY

**APPENDIX C**  
**USFWS, NYSDEC, and NYNHP CORRESPONDENCE**



## Governor's Office of Storm Recovery

ANDREW M. CUOMO  
Governor

*Via Electronic Mail*

June 6, 2018

Robyn A. Niver  
Endangered Species Biologist USFWS  
New York Field Office  
Cortland, NY 13045

### **Re: Section 7 Project Review - ESA/MBTA/BGEPA Consultation for the Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York**

Dear Ms. Niver:

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), on behalf of the Department of Housing & Urban Development (HUD), is conducting an environmental review under HUD's environmental review regulations (24 CFR Part 58) and New York State's Environmental Quality Review Act (SEQRA) for the Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York (see **Figure 1**).

The purpose of this letter is to provide the U.S. Fish and Wildlife Service – New York Field Office (USFWS) notice of the proposed project and to document compliance with Section 7 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), as well as the Migratory Bird Treaty Act of 1918 (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703-712), and the Bald and Golden Eagle Protection Act of 1940 (BGEPA) (54 Stat. 240, as amended; 16 U.S.C. 668-668c).

#### **Program Overview:**

Hurricane Irene, and Tropical Storm Lee strained local drainage infrastructure. During the storms, heavy rainfall caused excessive amounts of stormwater and accompanying detritus to gather at inadequately-sized culverts, particularly in outlying areas of the region. During previous storm events, the culvert infrastructure at Platte Clove Road was unable to adequately pass storm water beneath the road's' surfaces. Debris carried by stormwater exacerbated this problem. After the culverts' capacity was exceeded, the water left its channel, overtopped the road, eroded road base soils and aggregates, and made the roads impassable during the storms and unsafe afterward. This condition persisted until well after the storms. Flooding also weakened the road base's capacity to handle the weight of vehicles. The long-term benefits of permanent flood mitigation by re-sizing the culvert under Platte Clove Road will ensure continued access to vital services and improve emergency response to areas that may otherwise be cut off during storms. Minimizing damage to the roadway

during future flooding will limit rehabilitation and reconstruction costs, reduce maintenance needs, and limit capital expenditures made necessary for storm recovery.

### **Area of Potential Effect:**

The Project will take place on Platte Clove Road at an unnamed tributary of Plattekill Creek where it crosses under Platte Clove Road, approximately 0.5 miles northwest of the intersection of Platte Clove Road and Manorville Road (see **Figure 2**). The tributary flows through two twenty-four-inch diameter corrugated metal culverts approximately 95 feet long (see attached **Site Plans**). The Project will disturb 0.24 acre and remove 19 trees.

### **Proposed Project Description:**

The Town of Saugerties proposes to replace the two existing 24-inch corrugated metal pipe culverts with a single 60-inch metal pipe (see attached **Site Plans**). The new culvert will be installed by trenchless directional drilling. The culverts are partially collapsed with the inlets buried, resulting in temporary ponding of water upstream of the Platte Clove Road embankment. The inlets of both 24-inch culverts are completely blocked by soils, sediment and debris, which has accumulated at the toe of the road embankment. The new culvert will be installed close to the north side of the existing culverts. A precast concrete headwall, or equivalent, will be constructed on the inlet side of the replacement culvert and a trash rack installed. New riprap will be placed at both the inlet and outlet of the new culvert. The stacked stone headwall on the downstream side of the replacement culvert will be repointed as necessary to secure any loose stones. The old culverts will be filled and left in place.

The Project will include the construction of a 10-foot wide temporary access road from Platte Clove Road, starting south of the culvert. The temporary road would run to the north over the existing culverts, turn to the northeast along the north stream bank to a point 100 feet upstream of Platt Clove Road. A 45-foot by 18-foot flat drill pad area will be excavated in the stream bed on the east side of Platte Clove Road to accommodate the drilling equipment. Temporary retaining walls will be constructed around the drill pad area and the access road. (See attached **Site Plans**).

The project is proposed to take place in late summer, during the dry season. Any water will be collected upstream of the drilling and pumped through a temporary pipeline to a point down stream of Platt Clove Road. The only disruption of traffic will involve movement of heavy equipment. There will be no excavation of the existing road. Disturbed stream areas will be regraded and restored with a vegetative cover on the streambanks.

### **Wetlands:**

**Wetlands:** See the attached wetland map, **Figure 3**.

- The Project Area is within the Riverine National Wetlands Inventory (NWI) wetland area associated with the unnamed tributary of Platte Kill. This wetland already has been disturbed by the existing culvert and Platte Clove Road. The Project will disturb a total of approximately 0.24 acres, 0.11 acres of which is the riverine wetland. The Project would not damage the function and beneficial values of the wetland. The project is proposed to take place in the dry season. Any water will be collected upstream of the drilling and pumped through a temporary pipeline to a point downstream of Platt Clove Road. Disturbed stream areas will be regraded and restored with a vegetative cover on the streambanks.

- The Project Area boundary is not within New York State Department of Environmental Conservation (NYSDEC) wetlands. The Project is outside of the 300-foot buffer of NYSDEC wetlands.

### **ESA, Migratory Bird Treaty Act, And Bald and Golden Eagle Protection Act Species:**

The New York State Natural Heritage Program (NYSNHP) database search completed on March 29, 2018, had no records of rare or state-listed animals or plants, or significant natural communities at the project site or in its immediate vicinity. (See attached **New York Natural Heritage Program Review**.)

### **Northern Long-eared Bat (NLEB) and Indiana Bat**

The USFWS, New York Ecological Services Field Office was contacted through the Information, Planning, and Conservation System (IPaC) regarding the potential presence of species under the jurisdiction of the USFWS within the project area. The attached Official Species List identifies one threatened and one endangered species and no critical habitats: the threatened Northern Long-eared Bat (NLEB, *Myotis septentrionalis*) and the endangered Indiana Bat (*Myotis sodalis*). Ulster County is within the White-Nose Syndrome Zone. According to geospatial information provided by NYSDEC, there are no known occurrences of either the NLEB or Indiana bat near the project site. The project site is not within five miles of bat hibernacula or known maternity colonies (see attached **Bat Occurrences Map** ).

### **Tree Removal and Habitat Assessment**

Project activities include the removal of 19 trees to access the culvert that needs to be replaced (see the attached Tree Clearing Plan and Tree Cutting Photos). Tree removal is anticipated to occur during late summer, after the June through July pup season. A Phase I Habitat Assessment was conducted by Amanda Bailey (NYSDEC) on April 25, 2018 (See attached **Phase I Habitat Assessment**). Of the 19 trees to be removed, it was determined that only **one** tree has the potential for roosting, as it has exfoliating bark and a broken top. GOSR proposes to conduct an emergence survey of this tree the evening prior to scheduled removal to determine the presence or absence of bats. If no bats are observed during the emergence study, tree cutting will be completed the following day. If bats are observed emerging from the tree to be removed, GOSR will contact USFWS immediately for further assistance. Tree removal activities will be postponed until mitigation actions can be implemented that eliminate any incidental takes or adverse impacts to the listed bat species.

As such, GOSR determines that this project **may affect but is not likely to adversely affect the NLEB or Indiana bat** and would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat.

### **MBA**

GOSR has determined that the Proposed Project would have no significant adverse impact on migratory birds or their habitat. It is anticipated that passerine birds would temporarily leave the area during construction due to noise and disturbance. Extensive areas of high quality woodland habitat are available in Ulster County.

### **BGEPA**

The IPaC review process identified the bald eagle as having year-round habitat in Ulster County that may be potentially affected by activities in the Proposed Project area. GOSR has determined that the Proposed Project would have no significant adverse impact on bald eagles. The Proposed Project area is not located within the vicinity of documented bald eagle breeding. As with other migratory birds, foraging bald eagles may temporarily avoid the area during construction due to noise and disturbance.

## Compliance:

The proposed project would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat. On this basis, GOSR has determined that the proposed action **may affect but is not likely to adversely affect** the Indiana bat, NLEB. We request your concurrence with this determination. If the USFWS does not respond within 30 days from submittal of this form, then GOSR may presume that its determination for the project is informed by the best available information and its project responsibilities under Section 7 of the ESA have been fulfilled.

Additionally, we request to be alerted if USFWS becomes aware of a Bald or Golden Eagle nest within 660 feet of the project site.

Project implementation is conditioned upon issuance of applicable federal and state permits and would be constructed in accordance with federal and state permit conditions. The proposed project would not have a significant impact on ESA species or adversely modify any critical habitat. Conservation measures would be employed to avoid impacts to bats, including a tree survey prior to any Project-related disturbance and clearly demarcating trees to be protected compared with those to be cut if any are identified in the survey.

If you have questions or require additional information regarding this request, please contact me at (518) 474-0755) or [Lori.Shirley@nyshcr.org](mailto:Lori.Shirley@nyshcr.org). Thank you for your time and consideration.

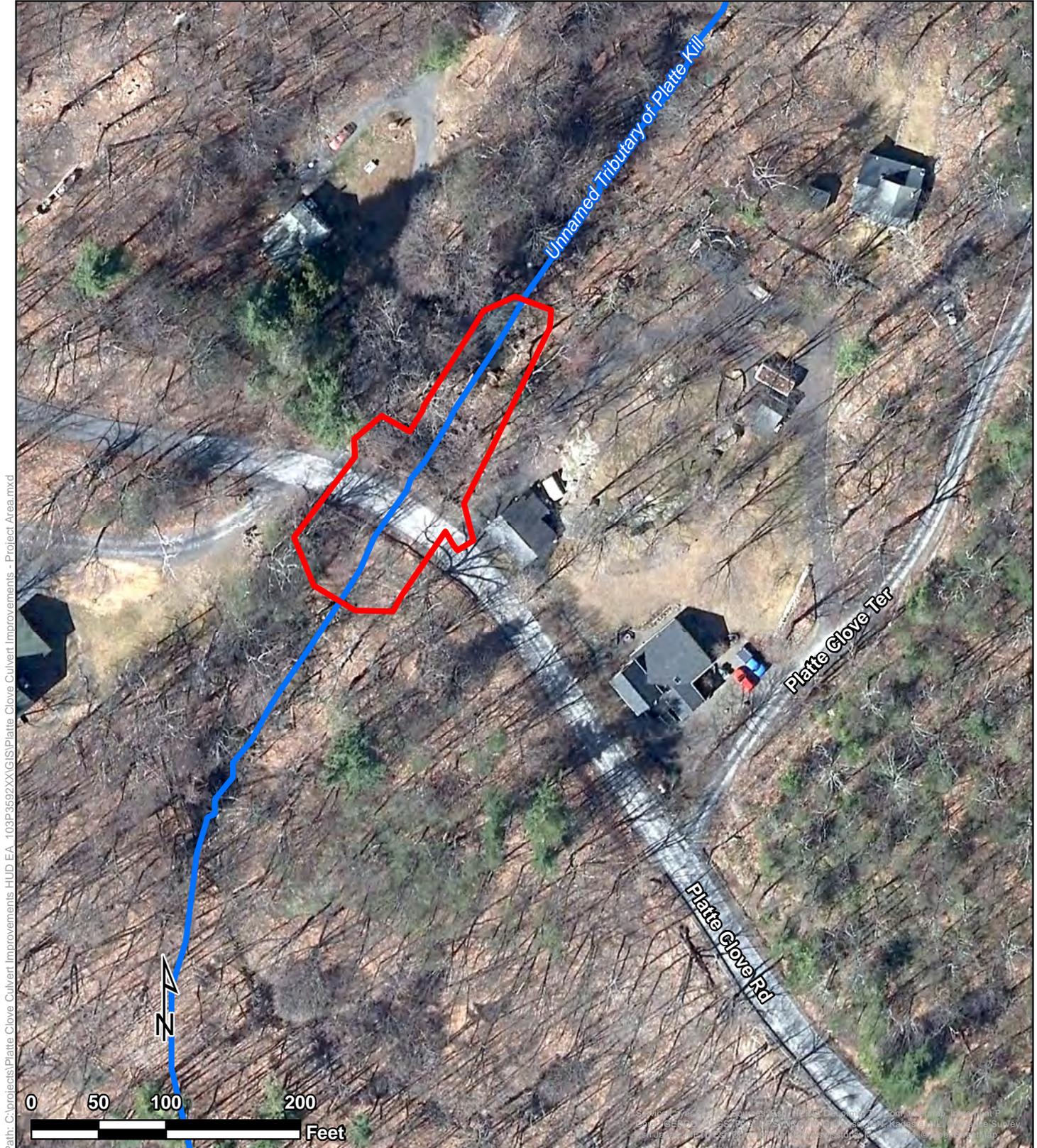
Sincerely,



Lori A. Shirley  
Certifying Officer  
Governor's Office of Storm Recovery  
NYS Homes and Community Renewal

### Attachments:

Figure 1 - Platte Clove Culvert Improvements - Project Area  
Figure 2 - Platte Clove Culvert Improvements - Project Overview  
Figure 3 - Platte Clove Culvert Improvements – Freshwater Wetlands  
Site Plans  
New York Natural Heritage Program Review  
USFWS Species List - Long Island Ecological Services Field Office  
NYS Resources Bat Occurrences Map  
Phase I Habitat Assessment, including Photos and Tree Clearing Plan

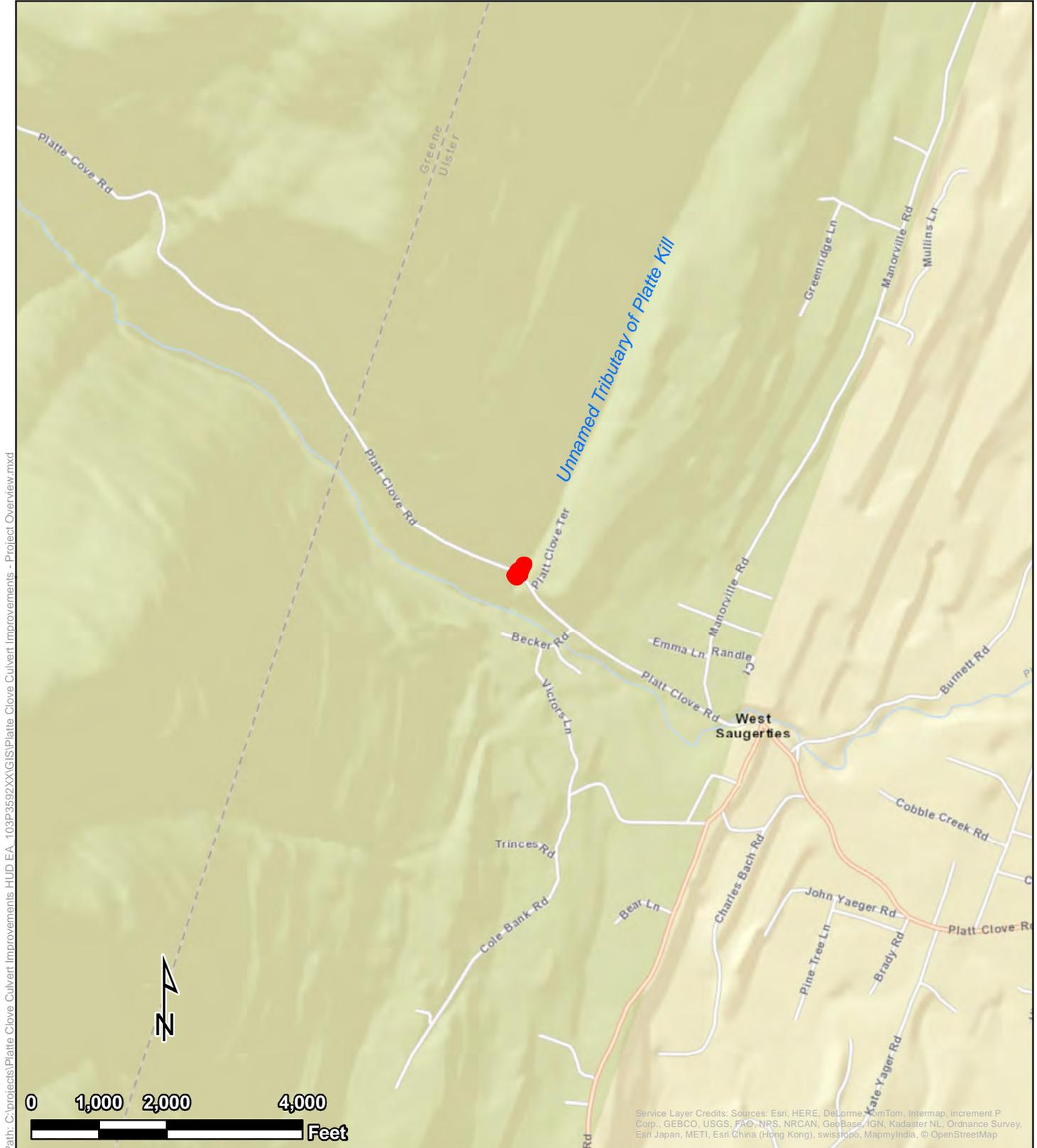


## Project Area

### Legend

Project Area

Platte Clove Culvert Improvements  
 Platte Clove Road  
 Town of Saugerties  
 Ulster County, New York



## Project Overview

### Legend

 Project Area

Platte Clove Culvert Improvements  
 Platte Clove Road  
 Town of Saugerties  
 Ulster County, New York

C:\Projects\Platte Clove Culvert Improvements HUD EA\_103P3592XX\GIS\Platte Clove Culvert Improvements - Freshwater Wetlands.mxd



**Legend**

- Unnamed Tributary of Platte Kill
- Project Area
- NYS Freshwater Wetlands
- NYS Freshwater Wetlands Buffer
- NWI Wetlands**
- Riverine

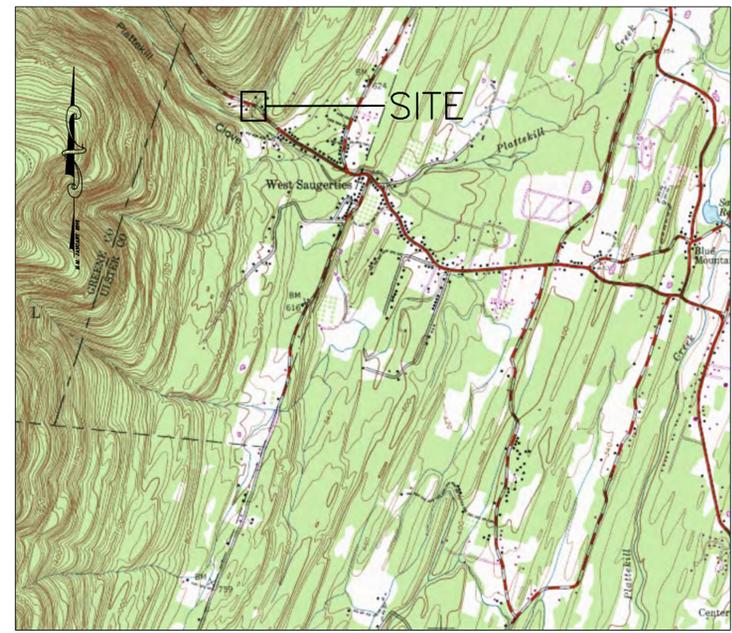
***Freshwater Wetlands***

Platte Clove Culvert Improvements  
 Platte Clove Road  
 Town of Saugerties  
 Ulster County, New York



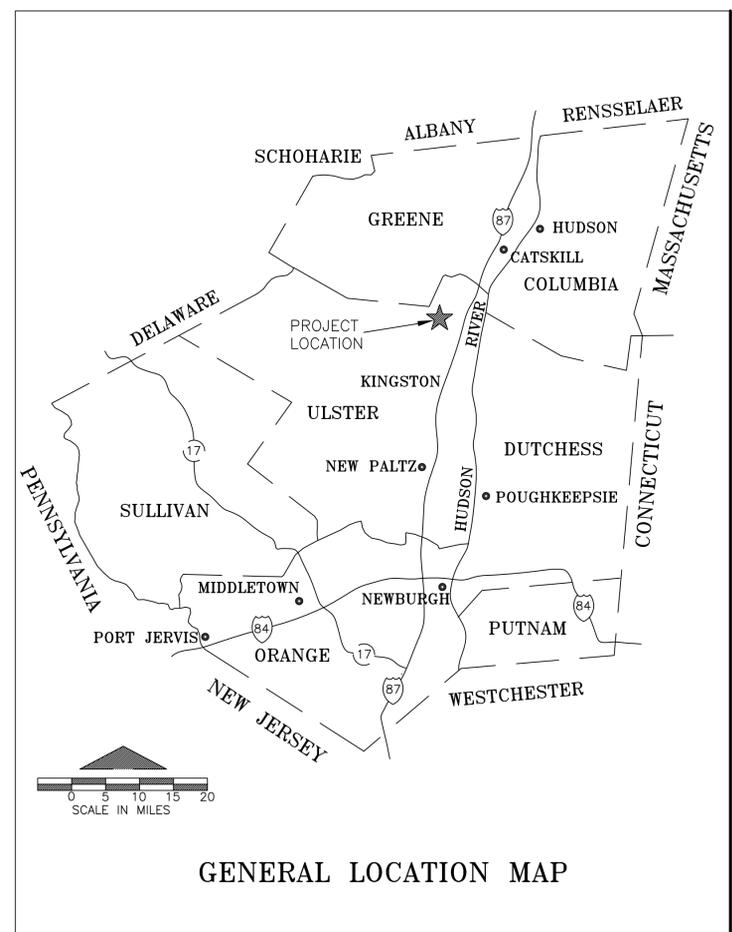
Tetra Tech, Inc

Figure 3



REFERENCE: 7.5 MINUTE USGS QUADRANCE - WOODSTOCK

LOCATION MAP  
SCALE 1" = 2000'



GENERAL LOCATION MAP

# CONTRACT TSA-171

## PLATTE CLOVE ROAD CULVERT REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNOR'S OFFICE OF STORM RECOVERY

TOWN OF SAUGERTIES      ULSTER COUNTY      NEW YORK

TOWN OFFICIALS

GREG HELSMOORTEL, TOWN SUPERVISOR

TOWN COUNCIL

JAMES BRUNO  
FRED COSTELLO, JR.  
LEEANNE THORNTON  
WILLIAM M. SCHIRMER

LISA A. STANLEY, TOWN CLERK

DOUG MYER, HIGHWAY SUPERINTENDENT

MAY 2017

30% DESIGN FOR AGENCY REVIEW

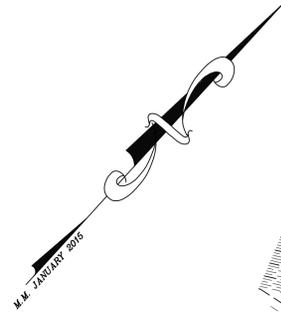
BRINNIER AND LARIOS, P. C.  
PROFESSIONAL ENGINEERS AND LAND SURVEYORS  
67 MAIDEN LANE  
KINGSTON, NEW YORK  
(845) 338-7622



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

INDEX OF DRAWINGS

SHEET NO.	DRAWING
1.	COVER SHEET
2.	EXISTING CONDITIONS
3.	EROSION AND SEDIMENT CONTROL PLAN
4.	TEMPORARY ACCESS ROAD AND DRILL PAD
5.	SITE AND GRADING PLAN
6.	PROFILE AND SECTIONS



LANDS NOW OR FORMERLY  
JOSEPH CABBIBO  
SBL 7.4-4-2.100  
LIBER 2137 PAGE 58

LANDS NOW OR FORMERLY  
FERN EDISON  
SBL 7.4-3-47  
LIBER 4149 PAGE 288

LANDS NOW OR FORMERLY  
THOMAS AND CHRISTINE ADAMS  
SBL 7.4-3-1  
LIBER 3865 PAGE 331

LANDS NOW OR FORMERLY  
STEVEN GENTILE  
SBL 7.4-3-48  
LIBER 5433 PAGE 40

LANDS NOW OR FORMERLY  
TERENCE AND ANGELINA SCHNIEDER  
SBL 7.4-3-47.200  
LIBER 1620 PAGE 124

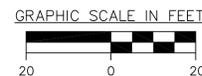
LANDS NOW OR FORMERLY  
HOWARD ROTHSTEIN  
SBL 7.4-3-46  
LIBER 1458 PAGE 610

BENCHMARK  
TOP OF MAG NAIL  
IN OAK TREE  
EL. 200.00'  
DATUM ASSUMED

**LEGEND**

	---195---	CONTOURS (MINOR)
	---194---	CONTOURS (MAJOR)
	—P—	PROPERTY LINE
	- - - - -	EXISTING STORM SEWER
	-OH-	EXISTING OVER HEAD WIRES
	-GR-	EXISTING GUIDE RAIL
	○	UTILITY POLE
	- - - - -	GRAVEL
	- - - - -	STONE WALL
	[Brick Pattern]	STONE RETAINING WALL

**EXISTING CONDITIONS**  
SCALE: 1" = 20'



- NOTES:**
1. FIELD SURVEY BY BRINNIER AND LARIOS, P.C. ON OCTOBER 25, 2016.
  2. TOPOGRAPHIC CONTOURS BASED ON A ASSUMED DATUM OF ELEVATION 200.00' AT BENCHMARK AS SHOWN.
  3. PROPERTY LINES ARE BASED ON

**NOTE:**  
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

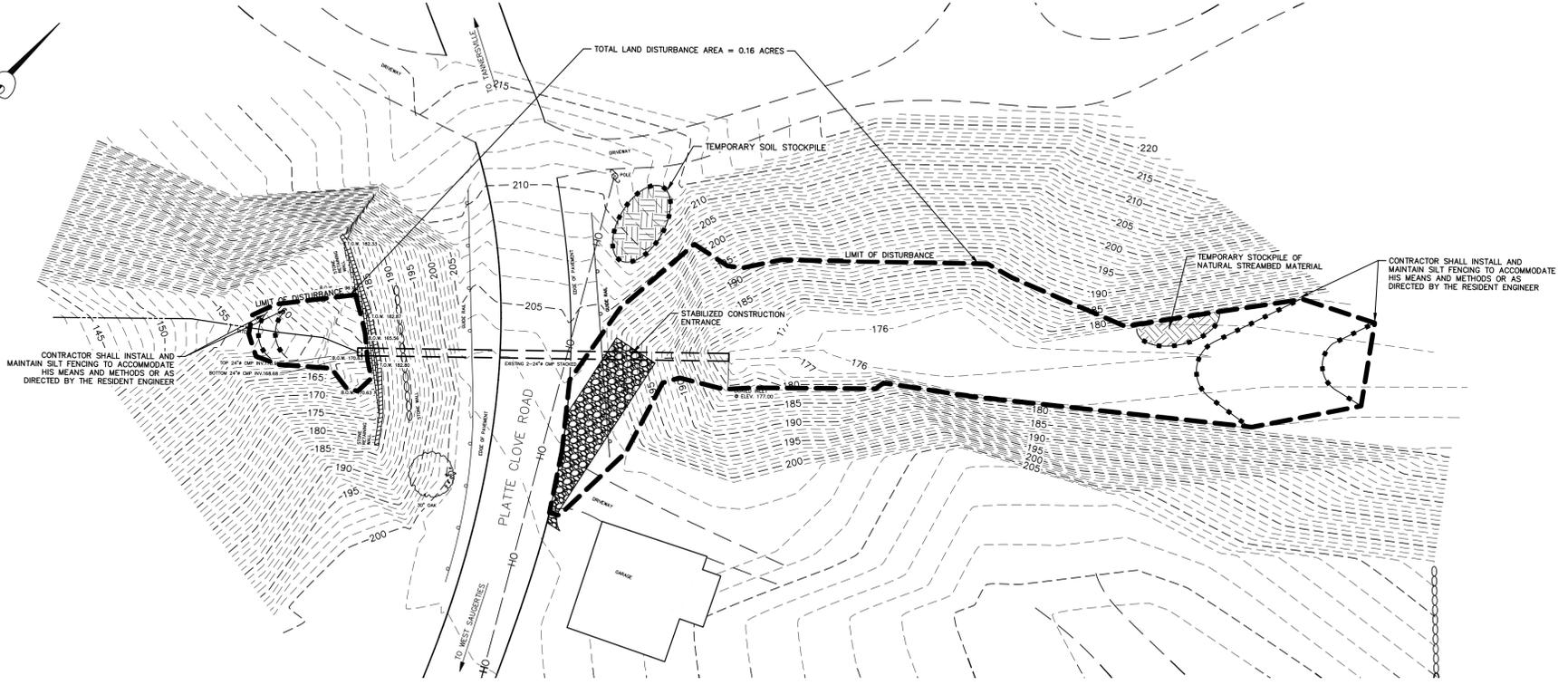


Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

**EXISTING CONDITIONS**  
CONTRACT TSA-171

PLATTE CLOVE ROAD CULVERT REPLACEMENT		NY RISING COMMUNITY RECONSTRUCTION PROGRAM	
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY		TOWN OF SAUGERTIES	
ULSTER COUNTY		NEW YORK	
DATE	REVISION RECORD	BRINNIER & LARIOS, P.C.	
5/18/17	30% DESIGN FOR AGENCY	ENGINEERS & LAND SURVEYORS	
	REVIEW	67 MAIDEN LANE KINGSTON, N.Y.	
		Phone: 845-338-7622 Fax: 845-338-7660	
SCALE	DATE	SHEET NO.	
1" = 20'	MAY 2017	2 OF 6	
	DWG	CHK	
	RJS		

M.K. JANUARY 2016



**LEGEND**

- 195 --- CONTOURS (MINOR)
- 194 --- CONTOURS (MAJOR)
- P — PROPERTY LINE
- S — EXISTING STORM SEWER
- OH — EXISTING OVER HEAD WIRES
- GR — EXISTING GUIDE RAIL
- UP — UTILITY POLE
- G — GRAVEL
- SW — STONE WALL
- SRW — STONE RETAINING WALL
- LD — LIMIT OF DISTURBANCE
- SF — SILTFENCE

**EROSION AND SEDIMENT CONTROL PLAN**  
SCALE: 1" = 20'

**GRAPHIC SCALE IN FEET**



**EROSION & SEDIMENT CONTROL NOTES:**

1. FOLLOW THE CONSTRUCTION SCHEDULE OUTLINED ON THIS SHEET.
2. CLEAR ONLY WHAT IS REQUIRED FOR THE IMMEDIATE CONSTRUCTION ACTIVITY. CLEARING AND GRADING SHOULD BE DONE AS CONSTRUCTION PROGRESSES. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION.
3. NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE.
4. PRIOR TO THE START OF CONSTRUCTION, TEMPORARY SILT FENCING AND/OR OTHER APPROVED DEVICES SHALL BE INSTALLED WHERE DEEMED NECESSARY TO PREVENT SOIL MIGRATION INTO WATER COURSES, WETLANDS, STORM DRAINAGE SYSTEMS, AND OFF SITE. SEE SILTATION CONTROL NOTES FOR INSTALLATION AND MAINTENANCE OF SILT FENCING.
5. WHENEVER POSSIBLE, SITE CONSTRUCTION ACTIVITIES SHALL START AT THE NEAREST POINT UPSLOPE OF THE EROSION CONTROL DEVICE, AND PROCEED TO ACTIVITIES FURTHER UPSLOPE.
6. SILT FENCING/TRAPS SHALL BE CLEANED OUT WHEN ACCUMULATED SEDIMENT HAS REDUCED THE CAPACITY OF THE TRAP BY 50%. SEDIMENT REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF IN A MANNER WHICH PREVENTS IT FROM ENTERING THE TRAP AGAIN.
7. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE PERIOD OF EXPOSURE SHALL BE KEPT TO A MINIMUM. IF PERMANENT VEGETATION, PAVEMENT, AND/OR STRUCTURES ARE NOT COMPLETED WITHIN 14 DAYS, STRAW MULCH (OR OTHER APPROVED MATERIAL) SHALL BE SPREAD TO TEMPORARILY COVER EXPOSED SOILS.
8. NO PERMITTED CONSTRUCTION ACTIVITIES SHALL TAKE PLACE WITHIN ANY WATERCOURSES OR WETLANDS UNTIL APPROPRIATE MEASURES ARE TAKEN TO PROTECT AND/OR TEMPORARILY DIVERT FLOWING WATER PAST THE WORK AREA AND DOWNSTREAM SEDIMENT CONTROLS ARE IN PLACE. IN GENERAL, THESE SEDIMENT CONTROLS SHALL NOT BE REMOVED UNTIL UPSTREAM ACTIVITY HAS BEEN SATISFACTORILY COMPLETED AND THE STREAM FLOWS CLEAR.
9. ALL TOPSOIL WHICH HAS BEEN STRIPPED AND STOCKPILED SHALL BE PLACED AT LEAST 50 FEET FROM ANY WETLAND OR WATERCOURSE. THE TOE OF THE STOCKPILE SHALL BE PROTECTED IN A MANNER WHICH PREVENTS SOIL FROM MIGRATING.
10. RING ANY TEMPORARY STOCKPILES WITH SILT FENCE TO PREVENT EROSION OF THE PILE.
11. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED REGULARLY IN PROPER FUNCTIONING CONDITION UNTIL ALL AREAS EXPOSED DURING CONSTRUCTION HAVE BEEN SUITABLY STABILIZED WITH FINAL VEGETATIVE COVER, PERMANENT STRUCTURES, OR PAVEMENT.
12. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ALL ENVIRONMENTAL/SPDES PERMITS ISSUED FOR THIS PROJECT AND LOCAL, STATE AND FEDERAL REGULATIONS.
13. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF THE EXISTING DRAINAGE SWALES BY SILT, SEDIMENT, FUELS, SOLVENTS, LIQUIDS, CONCRETE LEACHATE, OR ANY OTHER POLLUTANT ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT.

**CONSTRUCTION SCHEDULE:**

1. FLAG THE LIMIT OF DISTURBANCE TO DELINEATE THE WORK AREAS.
2. HOLD A PRE-CONSTRUCTION MEETING PRIOR TO STARTING CONSTRUCTION.
3. INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE.
4. INSTALL TEMPORARY SILT FENCING. SILT FENCE LOCATIONS AS DEPICTED ON PLANS ARE ILLUSTRATIVE. CONTRACTOR SHALL EXERCISE DILIGENCE WHEN INSTALLING SILT FENCE TO CAPTURE ALL SEDIMENT LADEN RUNOFF.
5. CLEAR AND ROUGH GRADE SITE IN THE AREAS OF IMMEDIATE CONSTRUCTION ACTIVITY ONLY.
6. STOCKPILE TOPSOIL, CONSTRUCT CHANNELS. BARE AREAS SHALL BE MULCHED SHOULD GRADING BE DISCONTINUED FOR MORE THAN 14 DAYS.
7. COMPLETE FINAL GRADING FOR SLOPE STABILIZATION.
8. COMPLETE FINAL GRADING. TOPSOIL CRITICAL AREAS AND PERMANENTLY VEGETATE, LANDSCAPE AND MULCH.
9. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AT LEAST ONCE EVERY (7) SEVEN CALENDER DAYS. NEEDED REPAIRS WILL BE MADE IMMEDIATELY. IF GREATER THAN 5 ACRES OF LAND IS DISTURBED AT ONE TIME, THE QUALIFIED INSPECTOR SHALL CONDUCT 2 SITE INSPECTIONS EVERY (7) SEVEN CALENDER DAYS.
10. AFTER THE SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.

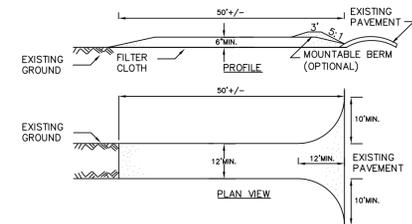
**SILTATION CONTROL NOTES:**

1. ALL SILTATION AND EROSION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO ANY EXCAVATION AND AS ACCEPTABLE TO THE ENGINEER. SILT FENCE SHALL BE MAINTAINED FOR THE DURATION OF SAID WORK AND SHALL NOT BE REMOVED UNTIL APPROVED BY THE ENGINEER.
2. SILT FENCING SHALL BE CLEANED OUT WHEN ACCUMULATED SEDIMENT HAS REDUCED THE CAPACITY BY 50% OR BULGES DEVELOP IN THE FABRIC. SEDIMENT REMOVED BE PROPERLY DISPOSED OF IN A MANNER WHICH PREVENTS IT FROM ENTERING THE AREA AGAIN.
3. SILT FENCE SHALL BE INSTALLED IN ALL AREAS THAT WILL HAVE AN EXCAVATION OPEN FOR MORE THAN 24 HOURS.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL AND NO LESS THAN ONCE EVERY WEEK. ANY NEED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED AND INSTALLED FOR THEIR APPROPRIATE PHASE OF THE PROJECT.

**LANDSCAPING & VEGETATION ESTABLISHMENT NOTES:**

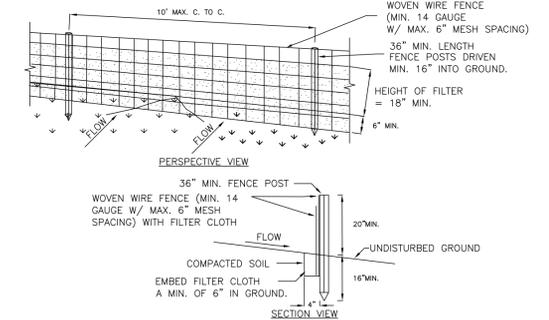
1. ALL TEMPORARY SEEDING SHALL BE RYEGRASS (ANNUAL OR PERENNIAL) AT AN APPLICATION RATE OF 0.7 POUNDS PER 1,000 SQUARE FEET. MULCH IMMEDIATELY AFTER SEEDING WITH STRAW AT A RATE OF 2 BALES (90 lbs) PER 1,000 SQUARE FEET.
2. ALL OTHER SITE AREAS SPECIFIED FOR PERMANENT GRASS VEGETATION SHALL BE SEEDDED WITH A MIXTURE OF PERENNIAL RYEGRASS SEED OF THE PENNFINE/LINN VARIETY AT A RATE 0.10 POUNDS PER 1,000 SQUARE FOOT. EROSION AND SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE INSPECTED UNTIL FULL VEGETATION IS ESTABLISHED.
3. STRAW MULCH SHALL BE USED FOR ALL AREAS WHERE VEGETATION IS TO BE ESTABLISHED. MULCH SHALL BE INSTALLED IMMEDIATELY AFTER SEEDING AT A RATE OF 90-100 POUNDS PER 1,000 SQUARE FEET.

**CONSTRUCTION SPECIFICATIONS**



1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
10. STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AND MAINTAINED AT SITE ENTRANCES DURING PHASE I CONSTRUCTION AND AT DRIVEWAY ENTRANCES DURING PHASE II CONSTRUCTION.

**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**CONSTRUCTION SPECIFICATIONS**

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100K, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
6. SILT FENCE LOCATIONS AS DEPICTED ON PLANS ARE ILLUSTRATIVE. CONTRACTOR SHALL EXERCISE DILIGENCE WHEN INSTALLING SILT FENCE TO CAPTURE ALL SEDIMENT LADEN RUNOFF.

**SILT FENCE DETAIL**  
NOT TO SCALE

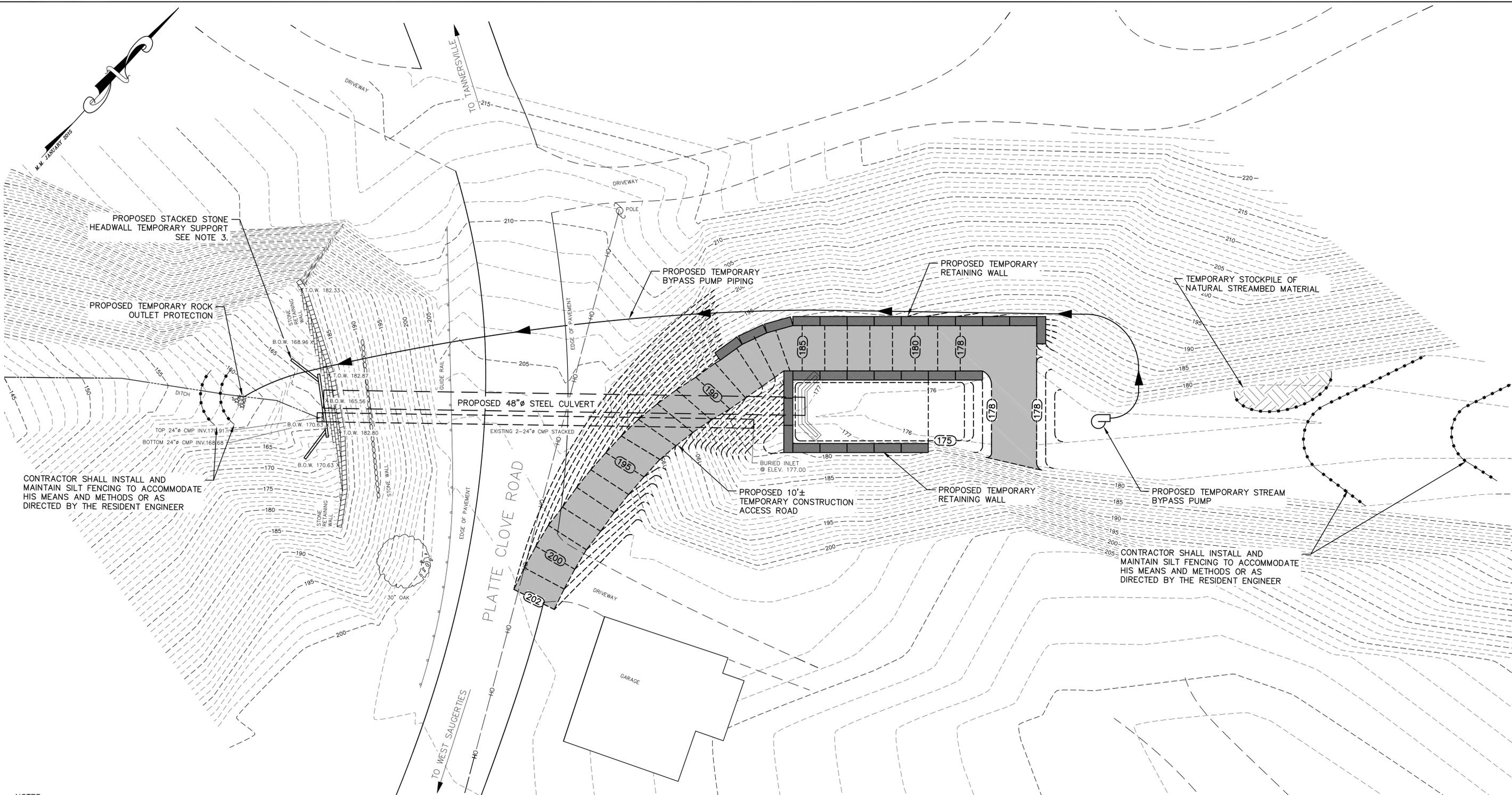
**NOTE:**  
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

**EROSION AND SEDIMENT CONTROL PLAN**  
CONTRACT TSA-171

PLATTE CLOVE ROAD CULVERT REPLACEMENT		NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY	
TOWN OF SAUGERTIES	ULSTER COUNTY	NEW YORK	
DATE	REVISION RECORD	BRINNIER & LARIOS, P.C.	
5/12/17	30% DESIGN FOR AGENCY REVIEW	ENGINEERS & LAND SURVEYORS	
		67 MAIDEN LANE KINGSTON, N.Y.	
		Phone: 845-338-7622 Fax: 845-338-7660	
SCALE	DATE	DATE	SHEET NO.
1" = 20'	MAY 2017	CHK	3 OF 6
	DWG	RJS	



PROPOSED STACKED STONE HEADWALL TEMPORARY SUPPORT SEE NOTE 3.

PROPOSED TEMPORARY ROCK OUTLET PROTECTION

PROPOSED TEMPORARY BYPASS PUMP PIPING

PROPOSED TEMPORARY RETAINING WALL

TEMPORARY STOCKPILE OF NATURAL STREAMBED MATERIAL

PROPOSED 48" Ø STEEL CULVERT

PROPOSED 10' ± TEMPORARY CONSTRUCTION ACCESS ROAD

PROPOSED TEMPORARY RETAINING WALL

PROPOSED TEMPORARY STREAM BYPASS PUMP

CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCING TO ACCOMMODATE HIS MEANS AND METHODS OR AS DIRECTED BY THE RESIDENT ENGINEER

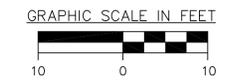
CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCING TO ACCOMMODATE HIS MEANS AND METHODS OR AS DIRECTED BY THE RESIDENT ENGINEER

- NOTES:
1. WORK TO BE PERFORMED IN LATE SUMMER OR EARLY FALL WHEN STREAM IS DRY.
  2. ALIGNMENT AND GRADING OF TEMPORARY CONSTRUCTION ACCESS ROAD ARE ILLUSTRATIVE. CONTRACTOR TO INSTALL AS NEEDED TO SUIT THEIR MEANS AND METHODS.
  3. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING SUPPORTS TO PRESERVE THE BLUE STONE HEADWALL ON THE OUTLET END OF THE DIRECTIONAL DRILLING OPERATION.
  4. CONTRACTOR TO MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES. CONTRACTOR TO SETUP A MUTCD TYPICAL APPLICATION 10 LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS.

LEGEND

- 195 --- CONTOURS (MINOR)
- 194 --- CONTOURS (MAJOR)
- P — PROPERTY LINE
- --- EXISTING STORM SEWER
- OH — EXISTING OVER HEAD WIRES
- --- EXISTING GUIDE RAIL
- --- UTILITY POLE
- --- GRAVEL
- --- STONE WALL
- --- STONE RETAINING WALL
- --- SILTFENCE
- --- TEMPORARY CONSTRUCTION CONTOURS (SEE NOTE 2)
- --- TEMPORARY CONSTRUCTION ACCESS ROAD
- --- TEMPORARY RETAINING WALL

TEMPORARY ACCESS ROAD AND DRILL PAD  
SCALE: 1" = 10'



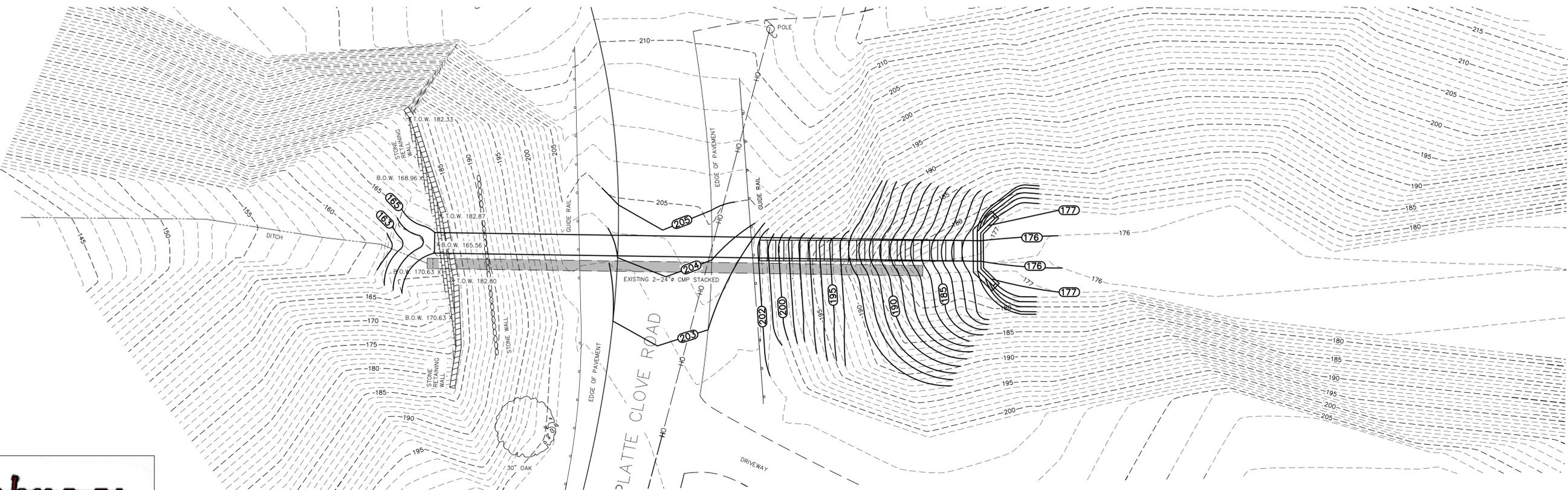
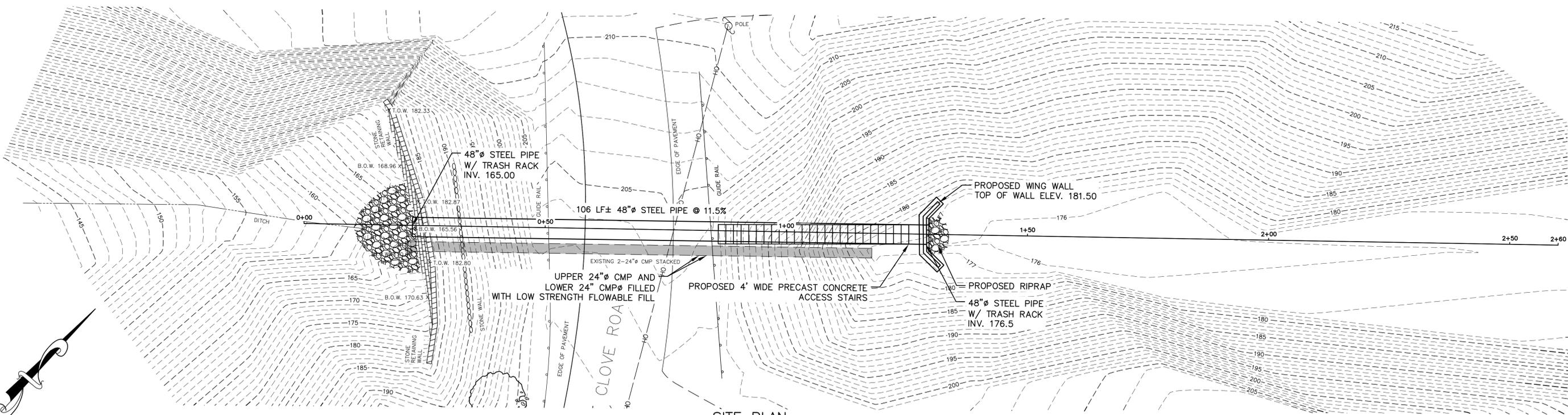
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TEMPORARY ACCESS ROAD AND DRILL PAD  
CONTRACT TSA-171

TOWN OF SAUGERTIES		ULSTER COUNTY		NEW YORK
DATE	REVISION RECORD	BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660		
5/12/17	30% DESIGN FOR AGENCY REVIEW	SCALE	DATE	SHEET NO.
		1" = 10'	MAY 2017	4 OF 6
			DWG RJS	CHK

NOTE: The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

M.M. JANUARY 2015

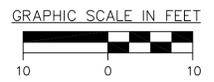


**LEGEND**

- 195 --- CONTOURS (MINOR)
- 194 --- CONTOURS (MAJOR)
- P — PROPERTY LINE
- S — EXISTING STORM SEWER
- O — EXISTING OVER HEAD WIRES
- G — EXISTING GUIDE RAIL
- U — UTILITY POLE
- C — GRAVEL
- S — STONE WALL
- S — STONE RETAINING WALL
- 185 — PROPOSED CONTOURS
- F — PROPOSED LOW STRENGTH FLOWABLE FILL
- R — PROPOSED RIPRAP



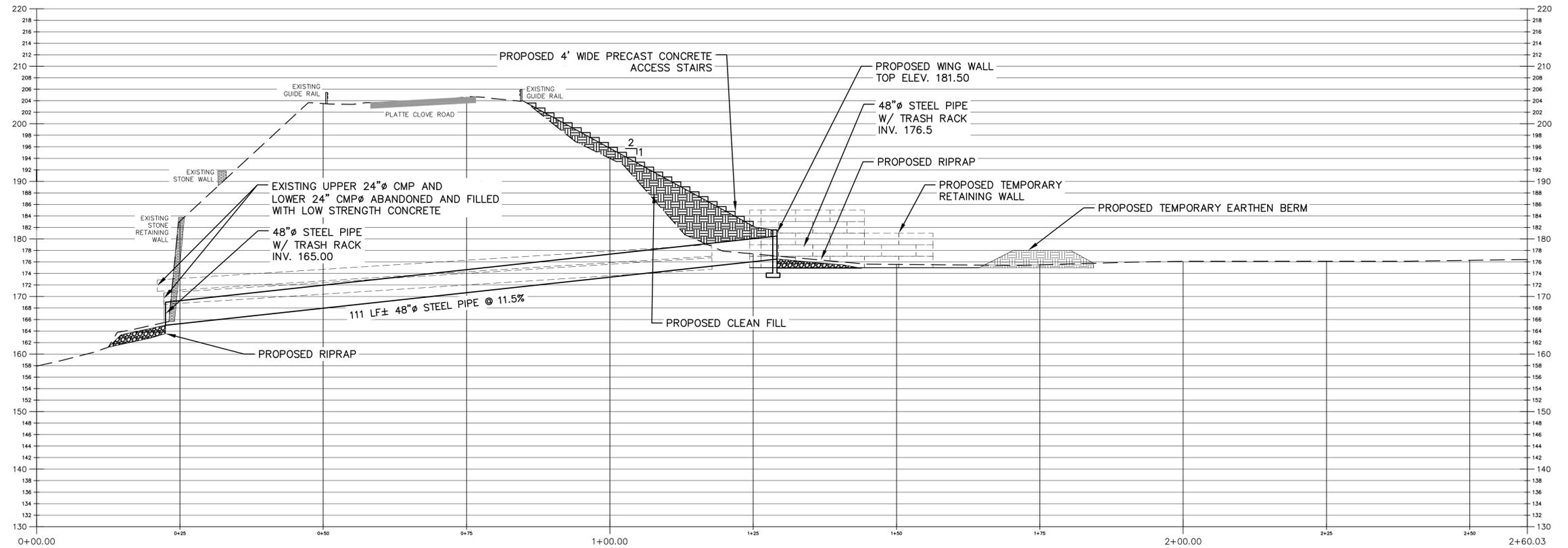
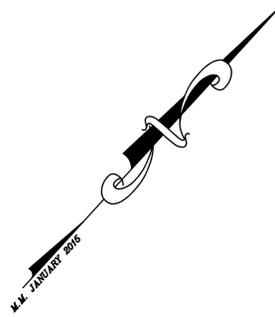
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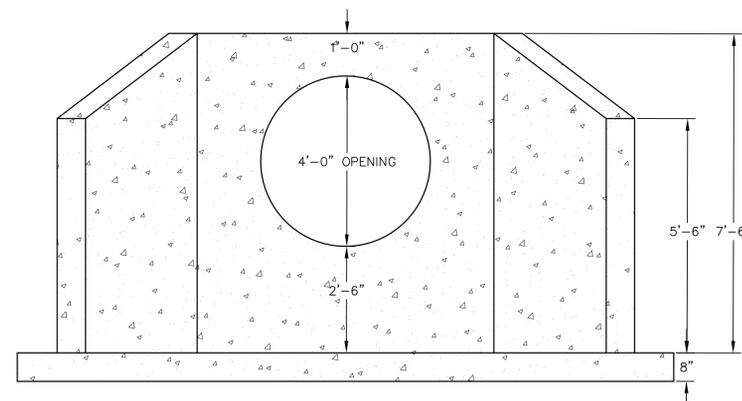
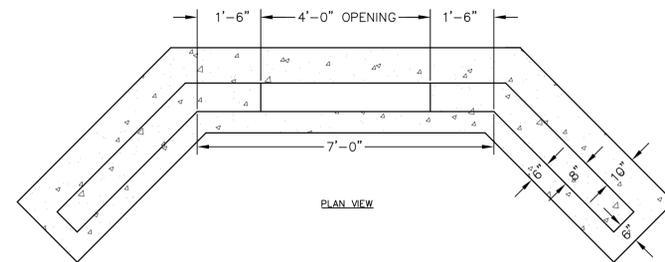
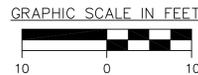
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**SITE AND GRADING PLAN**  
CONTRACT TSA-171

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NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY		TOWN OF SAUGERTIES	
ULSTER COUNTY		NEW YORK	
DATE	REVISION RECORD	BRINNIER & LARIOS, P.C.	
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		Phone: 845-338-7622 Fax: 845-338-7660	
SCALE	DATE	DATE	SHEET NO.
1" = 10'	MAY 2017		5 OF 6
	DWG	CHK	
	RJS		



**PROFILE OF SITE**  
 HOR. SCALE: 1" = 10'  
 VERT. SCALE: 1" = 10'



**PROPOSED WING WALL**  
 NOT TO SCALE

**NOTE:**  
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**PROFILE AND SECTIONS**  
**CONTRACT TSA-171**

PLATTE CLOVE ROAD CULVERT REPLACEMENT		NY RISING COMMUNITY RECONSTRUCTION PROGRAM	
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY		TOWN OF SAUGERTIES	
ULSTER COUNTY		NEW YORK	
DATE	REVISION RECORD	<b>BRINNIER &amp; LARIOS, P.C.</b> ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660	
5/12/17	30% DESIGN FOR AGENCY		
	REVIEW		
SCALE	DATE	SHEET NO.	
AS SHOWN	MAY 2017	6 OF 6	
	DWG	CHK	
	RJS		

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program  
625 Broadway, Fifth Floor, Albany, NY 12233-4757  
P: (518) 402-8935 | F: (518) 402-8925  
[www.dec.ny.gov](http://www.dec.ny.gov)

March 29, 2018

Lori Shirley  
Governor's Office of Storm Recovery  
30-40 State St., Hampton Plaza  
Albany, NY 12207

Re: Platte Clove Culvert Improvements Project  
County: Ulster Town/City: Saugerties

Dear Ms. Shirley:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants at the project site or in its immediate vicinity. Given the nature and scope of the proposed work, we do not expect any impacts on the nearby significant chestnut-oak forest and hemlock-northern hardwood forest.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 3 Office, Division of Environmental Permits, as listed at [www.dec.ny.gov/about/39381.html](http://www.dec.ny.gov/about/39381.html).

Sincerely,



Nicholas Conrad  
Information Resources Coordinator  
New York Natural Heritage Program



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
New York Ecological Services Field Office  
3817 Luker Road  
Cortland, NY 13045-9385

Phone: (607) 753-9334 Fax: (607) 753-9699

<http://www.fws.gov/northeast/nyfo/es/section7.htm>

In Reply Refer To:

April 19, 2018

Consultation Code: 05E1NY00-2018-SLI-1847

Event Code: 05E1NY00-2018-E-05576

Project Name: Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: <http://www.fws.gov/northeast/nyfo/es/section7.htm>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the Services wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**New York Ecological Services Field Office**  
3817 Luker Road  
Cortland, NY 13045-9385  
(607) 753-9334

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## Project Summary

Consultation Code: 05E1NY00-2018-SLI-1847

Event Code: 05E1NY00-2018-E-05576

Project Name: Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Project Type: \*\* OTHER \*\*

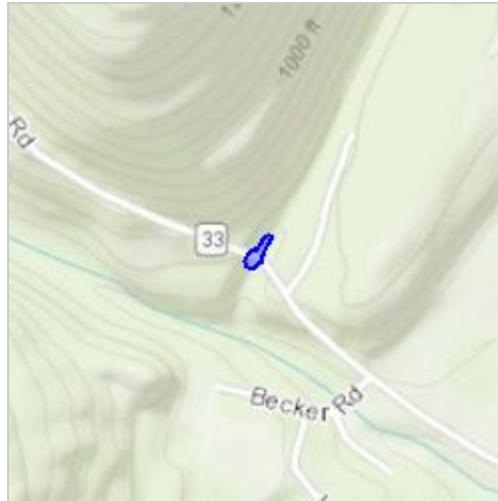
Project Description: The Town of Saugerties proposes to replace the two existing 24-inch corrugated metal pipe culverts with a single 60-inch metal pipe. The new culvert will be installed by trenchless directional drilling. The culverts are partially collapsed with the inlets buried, resulting in temporary ponding of water upstream of the Platte Clove Road embankment. The inlets of both 24-inch culverts are completely blocked by soils, sediment and debris, which has accumulated at the toe of the road embankment. The new culvert will be installed close to the north side of the existing culverts. A precast concrete headwall, or equivalent, will be constructed on the inlet side of the replacement culvert and a trash rack installed. New riprap will be placed at both the inlet and outlet of the new culvert. The stacked stone headwall on the downstream side of the replacement culvert will be repointed as necessary to secure any loose stones. The old culverts will be filled and left in place.

The Project will include the construction of a 10-foot wide temporary access road from Platte Clove Road, starting south of the culvert. The temporary road would run to the north over the existing culverts, turn to the northeast along the north stream bank to a point 100 feet upstream of Platte Clove Road. A 45-foot by 18-foot flat drill pad area will be excavated in the stream bed on the east side of Platte Clove Road to accommodate the drilling equipment. Temporary retaining walls will be constructed around the drill pad area and the access road.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.117446124455796N74.05732252624435W>

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Counties: Ulster, NY

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## Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## Mammals

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a>	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

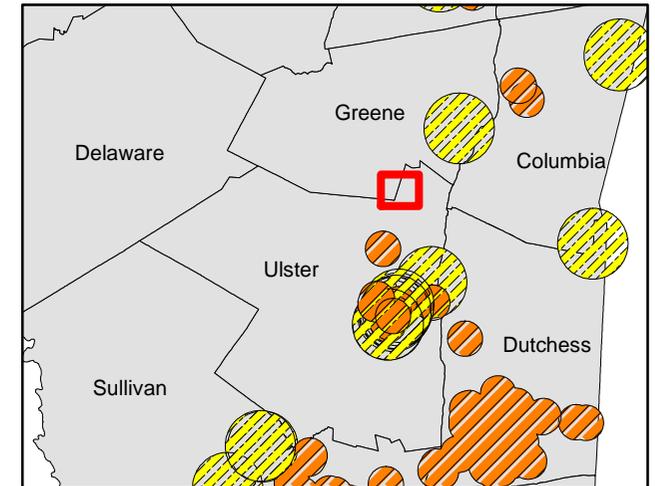
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# NYS Resources Map

## Platte Clove Culvert Improvements Town of Saugerties, Ulster County

Prepared by AMB on 3/8/2018



 Project area

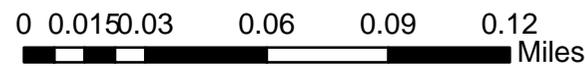
### Bat Occurrences

 Indiana Bat

 Northern Long-eared Bat



**Department of  
Environmental  
Conservation**



1 inch = 250 feet

Disclaimer: this map was prepared by the NYSDEC using the most current data available. It is deemed accurate but is not guaranteed. NYSDEC is not responsible for any inaccuracies in the data and does not necessarily endorse any interpretations or products derived from the data. This map may contain information that is considered sensitive and therefore the distribution of this map is strictly prohibited.

## APPENDIX A: PHASE 1 HABITAT ASSESSMENTS

### INDIANA BAT HABITAT ASSESSMENT DATASHEET

Project Name: Platte Clove Road Culvert Date: 4/25/2018  
 Township/Range/Section: Saugerties, Ulster County, NY  
 Lat Long/UTM/ Zone: 42.117452 // -74.057357 Surveyor: A. Bailey

Brief Project Description
19 trees will be removed to access a culvert that needs to be repaired on Platte Clove Road, Saugerties, NY.

Project Area	Total Acres	Forest Acres		Open Acres
<b>Project</b>	0.16 acres disturbed	0.16 acres		
<b>Proposed Tree Removal (ac)</b>	Completely cleared	Partially cleared (will leave trees)	Preserve acres- no clearing	
		19 trees		

Vegetation Cover Types	
Pre-Project	Post-Project
This is a forested/ forested residential area.	This area will remain a forested/forested residential area.

Landscape within 5 mile radius
<b>Flight corridors to other forested areas?</b> The surrounding area is well forested and connected to large tracts of forest within the Catskill Park.
<b>Describe Adjacent Properties (e.g. forested, grassland, commercial or residential development, water sources)</b> This parcel is a forested corridor along a stream. The immediate area is forested residential, though it is ~300 m from wild forest.

Proximity to Public Land
<b>What is the distance (mi.) from the project area to forested public lands (e.g., national or state forests, national or state parks, conservation areas, wildlife management areas)?</b> The project area is located approximately 300 m from the Kaaterskill Wild Forest, and is within the Catskill Park boundary.

## APPENDIX A: PHASE 1 HABITAT ASSESSMENTS

Use additional sheets to assess discrete habitat types at multiple sites in a project area

*Include a map depicting locations of sample sites if assessing discrete habitats at multiple sites in a project area*

*A single sheet can be used for multiple sample sites if habitat is the same*

<b>Sample Site Description</b>
Sample Site No.(s): <u>  1  </u>

Water Resources at Sample Site			
<b>Stream Type (# and length)</b>	Ephemeral	Intermittent	Perennial 45 m
<b>Pools/Ponds (# and size)</b>	1 small pool	Open and accessible to bats? Yes	
<b>Wetlands (approx. ac.)</b>	Permanent 0	Seasonal 0	
Describe existing condition of water sources: The project location is along a 45m stretch of stream. On the north side, the water slows into an accessible pool.			

Forest Resources at Sample Site			
<b>Closure/Density</b>	Canopy (> 50')	Midstory (20-50')	Understory (<20')
	4	4	2
<b>Dominant Species of Mature Trees</b>	Oak spp., American beech		
<b>% Trees w/ Exfoliating Bark</b>		1 tree	
<b>Size Composition of Live Trees (%)</b>	Small (3-8 in)	Med (9-15 in)	Large (>15 in)
	10	9	
<b>No. of Suitable Snags</b>	1		

1=1-10%, 2=11-20%, 3=21-40%, 4=41-60%, 5=61-80%, 6=81-100%

Standing dead trees with exfoliating bark, cracks, crevices, or hollows. Snags without these characteristics are not considered suitable.

**IS THE HABITAT SUITABLE FOR INDIANA BATS?** 1 tree has the potential for roosting

<b>Additional Comments:</b>
The majority of trees to be removed are small and live. One tree does have exfoliating bark and a broken top, and it is recommended that an emergence count be conducted at this tree prior to removal.

**Attach aerial photo of project site with all forested areas labeled and a general description of the habitat**

**Photographic Documentation:** habitat shots at edge and interior from multiple locations; understory/midstory/canopy; examples of potential suitable snags and live trees; water sources





Town of Saugerties: Platte Clove Road Culvert Project  
Tree Cutting Area at 560 Platte Clove Road (North)

▲ Trees likely to be removed











**Governor's Office of  
Storm Recovery**

**ANDREW M. CUOMO**  
Governor

*Via Electronic Mail*

March 26, 2018

Nicholas Conrad  
New York State Department of Environmental Conservation  
Division of Fish, Wildlife & Marine Resources  
New York Natural Heritage Program – Information Services  
625 Broadway, 5th Floor  
Albany, New York 12233-4757

Re: Natural Heritage Compliance Process for the Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Dear Mr. Conrad:

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), on behalf of the Department of Housing & Urban Development (HUD), is conducting an environmental review under HUD's environmental review regulations (24 CFR Part 58) and New York State's Environmental Quality Review Act (SEQRA) for the Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York (see **Figure 1**).

The purpose of this letter is to request a search of the files of the New York Natural Heritage Program for records of the occurrence of any rare animals, plants, and natural communities and/or significant wildlife habitats in the vicinity of this project. The information we receive will be used in NEPA and SEQRA documentation and/or any permit applications. We will retain the confidentiality, as needed, of any information received.

Program Overview: Hurricane Irene, and Tropical Storm Lee strained local drainage infrastructure. During the storms, heavy rainfall caused excessive amounts of stormwater and accompanying detritus to gather at inadequately-sized culverts, particularly in outlying areas of the region. During previous storm events, the culvert infrastructure at Platte Clove Road was unable to adequately pass storm water beneath the road's surfaces. Debris carried by stormwater exacerbated this problem. After the culverts' capacity was exceeded, the water left its channel, overtopped the road, eroded road base soils and aggregates, and made the roads impassable during the storms and unsafe afterward. This condition persisted until well after the storms. Flooding also weakened the road base's capacity to handle the weight of vehicles. The long-term benefits of permanent flood mitigation by re-sizing the culvert under Platte Clove Road will ensure continued access to vital services and improve emergency response to areas that may otherwise be cut off during storms.

Minimizing damage to the roadway during future flooding will limit rehabilitation and reconstruction costs, reduce maintenance needs, and limit capital expenditures made necessary for storm recovery.

Area of Potential Effect: The Project will take place on Platte Clove Road at an unnamed tributary of Plattekill Creek where it crosses under Platte Clove Road, approximately 0.5 miles northwest of the intersection of Platte Clove Road and Manorville Road (see **Figure 2**). The tributary flows through two twenty-four inch diameter corrugated metal culverts approximately 95 feet long (see attached **Site Plans**).

Proposed Project Description: The Town of Saugerties proposes to replace the two existing 24-inch corrugated metal pipe culverts with a single 60-inch metal pipe (see attached **Site Plans**). The new culvert will be installed by trenchless directional drilling. The directional drilling process will involve the drilling of an initial pilot hole where the horizontal and vertical alignment is carefully controlled and adjusted as necessary to achieve the design replacement culvert positioning. The pilot drill hole is subsequently reamed out to increase the size of the boring to the required diameter. A heavy-duty steel pipe is typically inserted through the boring as the final reaming of the boring is performed. This heavy-duty steel pipe then becomes the replacement culvert pipe.

The Project will include the construction of a 10-foot-wide temporary access road from Platte Clove Road running north over the existing culverts, turn to the northeast along the north stream bank to a point 100 feet upstream of Platt Clove Road. A 14-foot by 30-foot flat drill pad area will be excavated in the stream bed on the east side of Platte Clove Road to accommodate the drilling equipment. Temporary retaining walls will be constructed around the drill pad area and the access road. The current supporting structure and Platte Clove Road will be maintained in an open state allowing for traffic during the drilling operations. (See attached **Site Plans**).

The project is proposed to take place in the dry season. Any water will be collected upstream of the drilling and pumped through a temporary pipeline to a point down stream of Platt Clove Road. The only disruption of traffic will involve movement of heavy equipment. There will be no excavation of the existing road. The old culverts will be filled and left in place. Disturbed stream areas will be regraded and restored with a vegetative cover on the streambanks.

Compliance: According to information reviewed from the New York State Environmental Resource Mapper (ERM), the Project area is within a half mile of three significant natural communities: chestnut oak forest, hemlock-northern hardwood forest, beech-maple mesic forest including. However, no rare plants or animals are shown to be present within the project area (see attached **Figure 3, Environmental Resource Mapper Information**). The Department of Environmental Conservation (DEC), Division of Environmental Permits Region 3, **Jurisdictional Review Letter dated 02-01-2017** (attached), identified the tributary of Plattekill Creek as Protected and requiring a Protection of Waters permit. The proposed project would involve ground disturbance. As such, GOSR respectfully requests that the New York Natural Heritage Program review its records of concern for any rare or state-listed animals or plants, or significant natural communities, at this site or in its immediate vicinity.

If you have questions or require additional information regarding this request, please contact me at (518) 474-0755) or [Lori.Shirley@nyshcr.org](mailto:Lori.Shirley@nyshcr.org). Thank you for your time and consideration.

Sincerely,



Lori A. Shirley  
Certifying Officer  
Governor's Office of Storm Recovery  
NYS Homes and Community Renewal

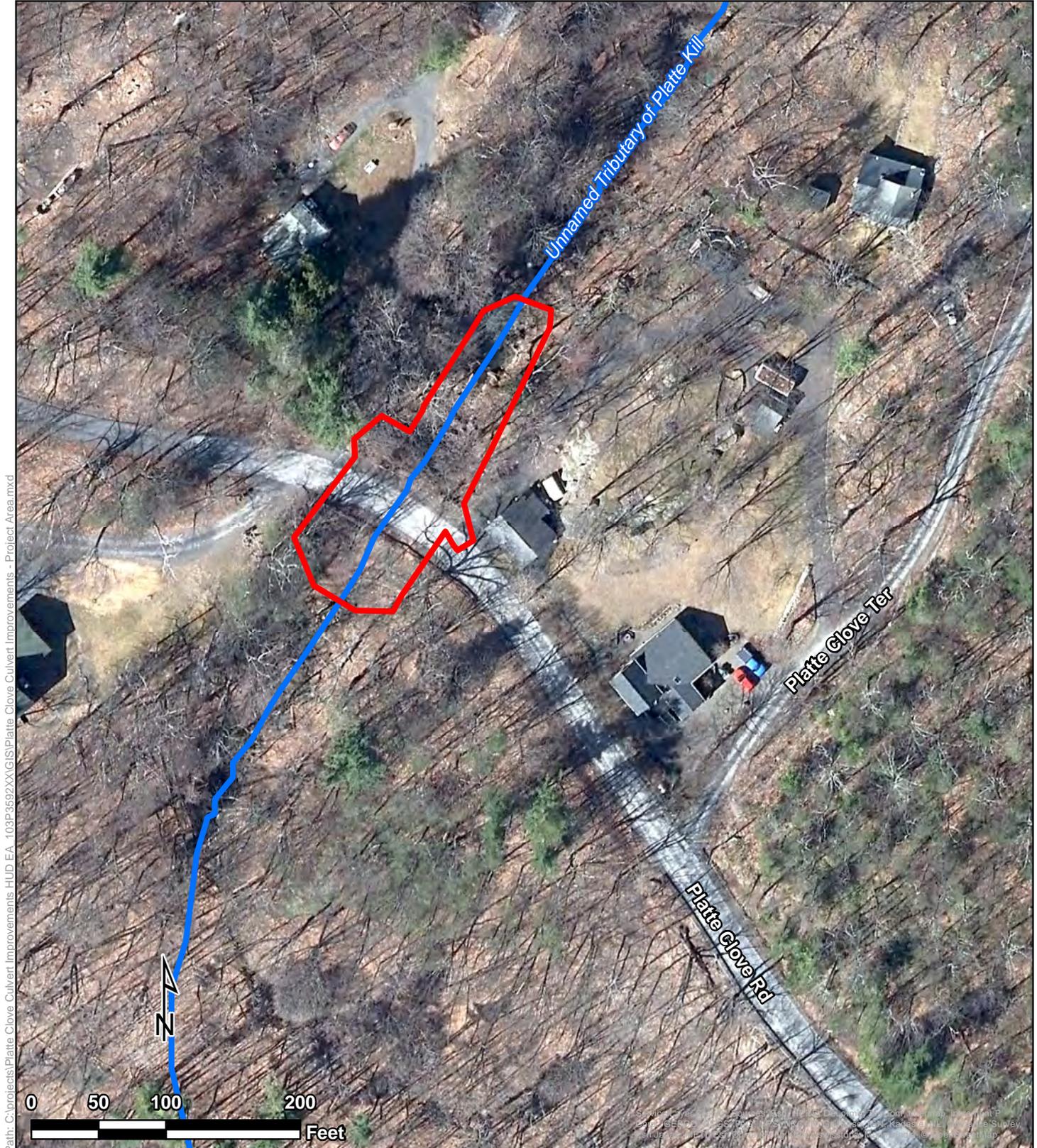
Attachments:

Figure 1 - Platte Clove Culvert Improvements - Project Area

Figure 2 - Platte Clove Culvert Improvements - Project Overview

Figure 3 - Platte Clove Culvert Improvements - Environmental Resource Mapper Results  
Site Plans

DEC Jurisdictional Review Letter- 02-01-2017

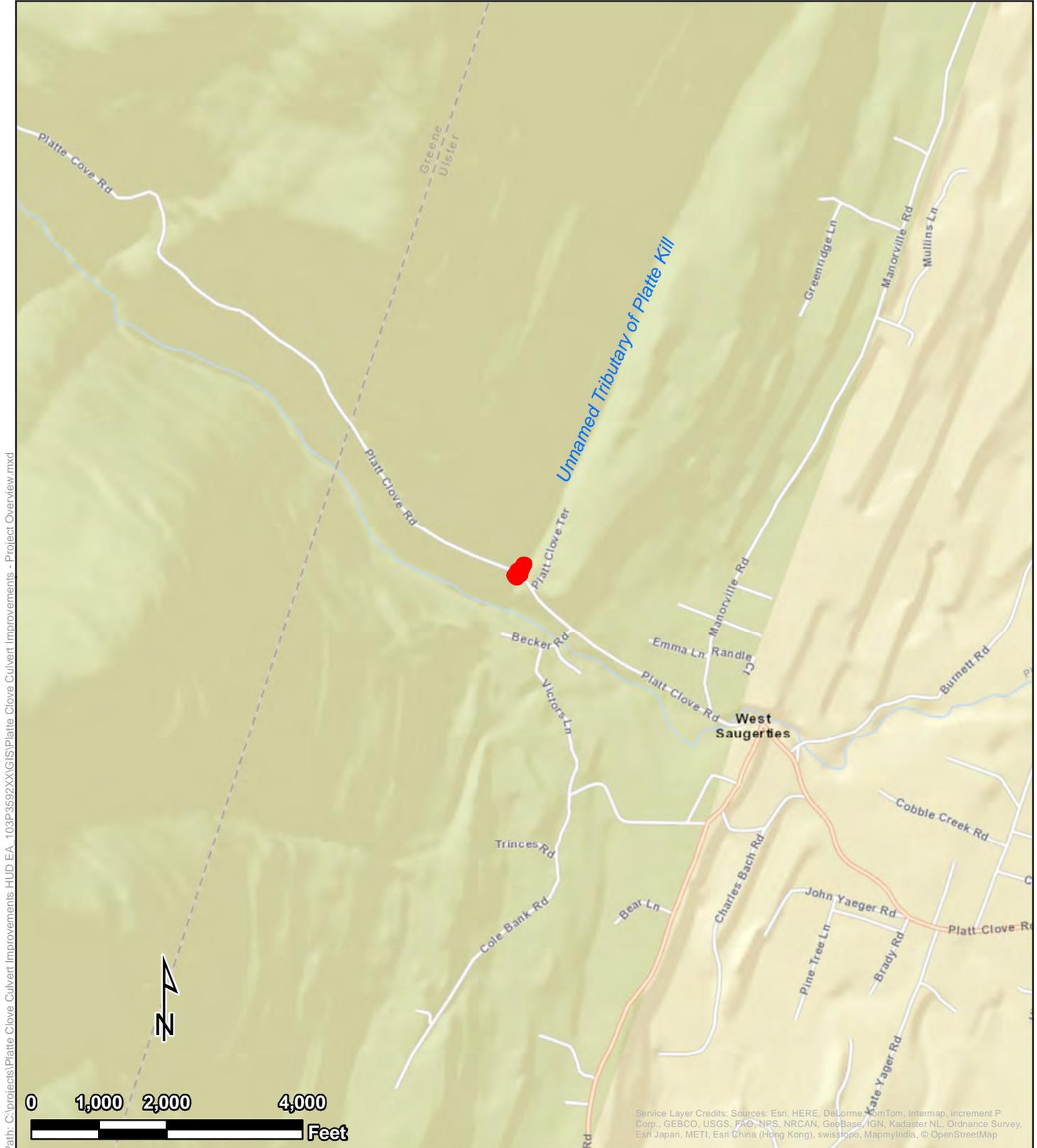


## Project Area

### Legend

Project Area

Platte Clove Culvert Improvements  
 Platte Clove Road  
 Town of Saugerties  
 Ulster County, New York



## Project Overview

**Legend**  
 Project Area

Platte Clove Culvert Improvements  
 Platte Clove Road  
 Town of Saugerties  
 Ulster County, New York

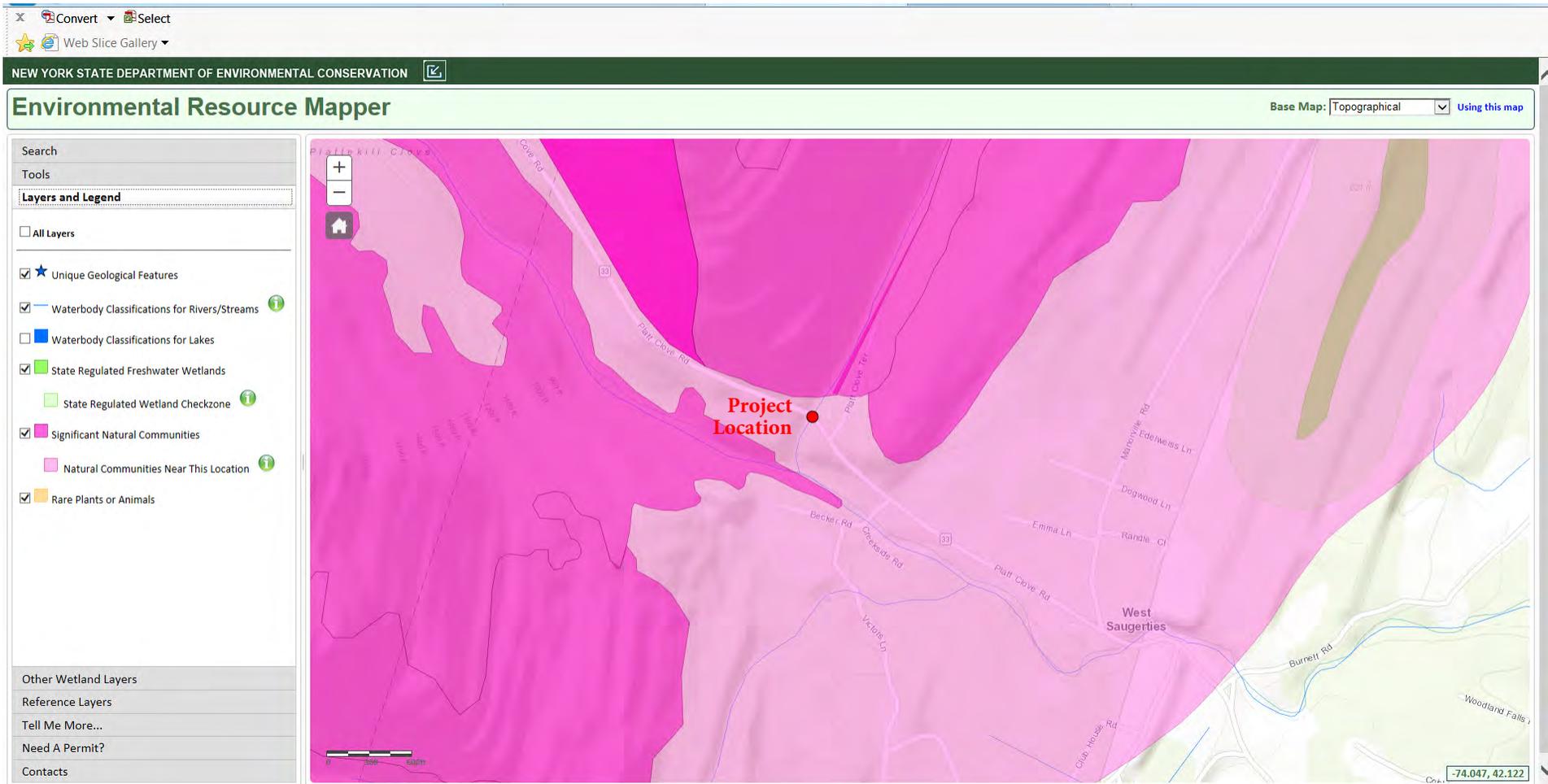
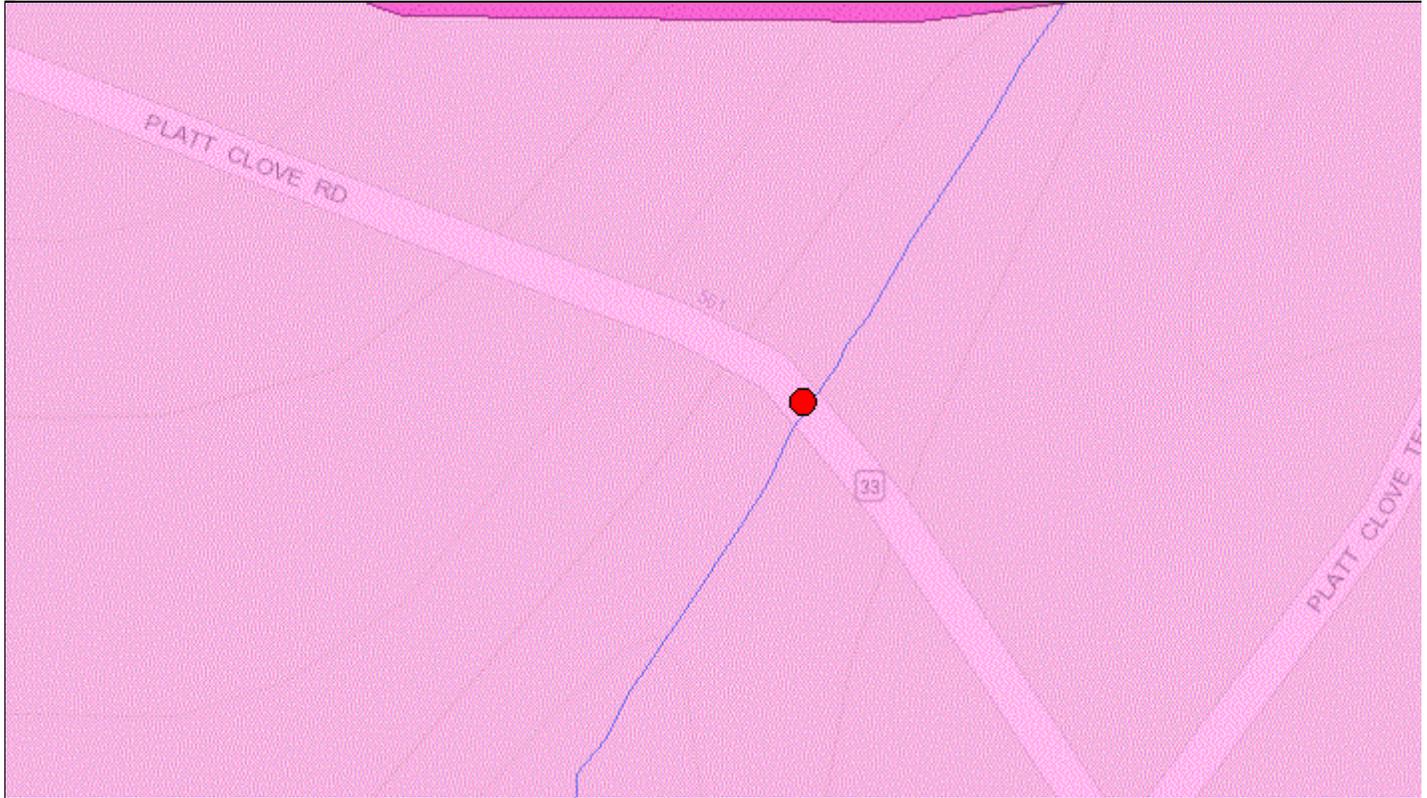


Figure 3

# Environmental Resource Mapper



The coordinates of the point you clicked on are:

<b>UTM 18</b>	<b>Easting:</b> 577937.391	<b>Northing:</b> 4663229.158
<b>Longitude/Latitude</b>	<b>Longitude:</b> -74.057	<b>Latitude:</b> 42.117

The approximate address of the point you clicked on is:

516-558 Platt Clove Rd, Saugerties, New York, 12477

**County:** Ulster

**Town:** Saugerties

**USGS Quad:** WOODSTOCK

**DEC Region**

**Region 3:**

(Lower Hudson Valley) Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester counties. For more information visit <http://www.dec.ny.gov/about/607.html>.

[Waterbody Classifications for Rivers/Streams](#)

**Regulation:** 861-49

**Standard:** A

**Classification:** A

### Natural Communities in the Vicinity

**Natural Community Name:** Chestnut oak forest

**Location:** Catskill Escarpment

**Ecological System:** Uplands

**Natural Community Name:** Hemlock-northern hardwood forest

**Location:** Blackhead Mountains

**Ecological System:** Uplands

**Natural Community Name:** Beech-maple mesic forest

**Location:** Catskill Park

**Ecological System:** Uplands

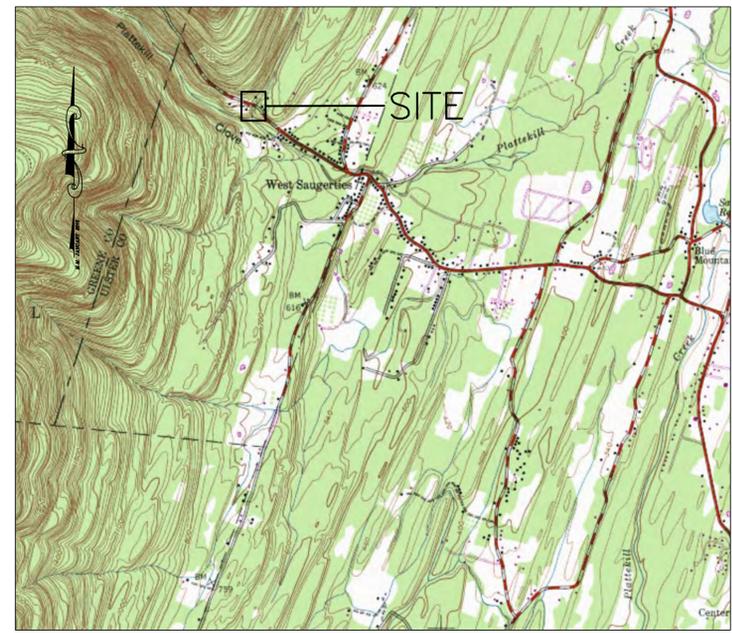
If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

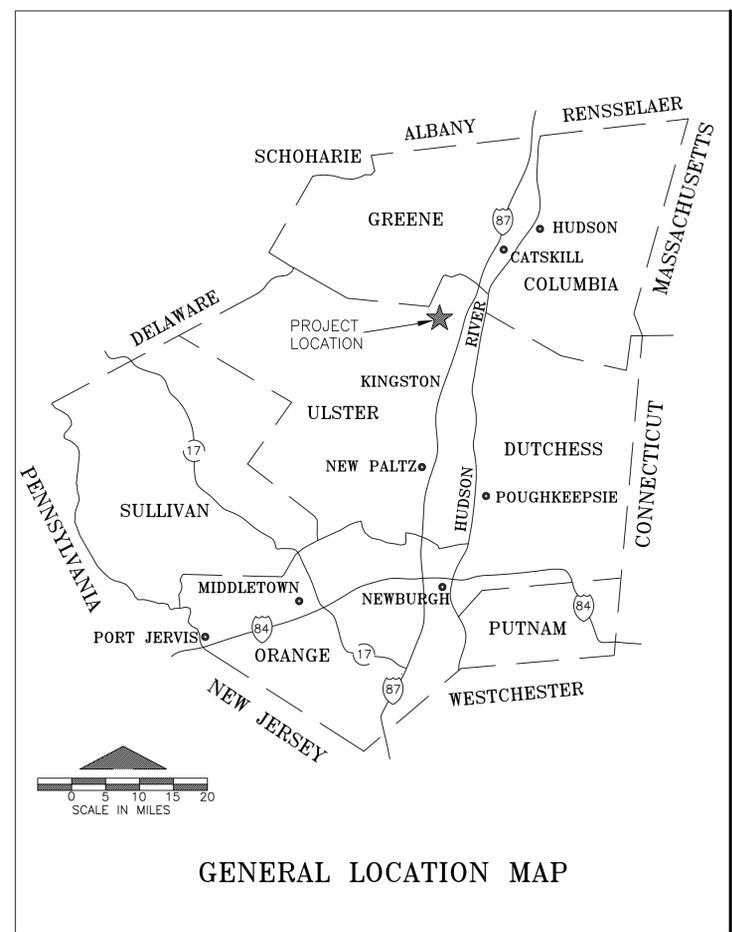
Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

**Disclaimer:** If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.



REFERENCE: 7.5 MINUTE USGS QUADRANCE - WOODSTOCK

LOCATION MAP  
SCALE 1" = 2000'



GENERAL LOCATION MAP

# CONTRACT TSA-171

## PLATTE CLOVE ROAD CULVERT REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNOR'S OFFICE OF STORM RECOVERY

TOWN OF SAUGERTIES      ULSTER COUNTY      NEW YORK

TOWN OFFICIALS

GREG HELSMOORTEL, TOWN SUPERVISOR

TOWN COUNCIL

JAMES BRUNO  
FRED COSTELLO, JR.  
LEEANNE THORNTON  
WILLIAM M. SCHIRMER

LISA A. STANLEY, TOWN CLERK

DOUG MYER, HIGHWAY SUPERINTENDENT

MAY 2017

30% DESIGN FOR AGENCY REVIEW

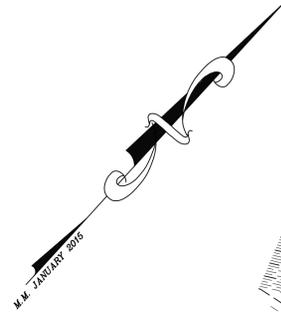
BRINNIER AND LARIOS, P. C.  
PROFESSIONAL ENGINEERS AND LAND SURVEYORS  
67 MAIDEN LANE  
KINGSTON, NEW YORK  
(845) 338-7622



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

INDEX OF DRAWINGS

SHEET NO.	DRAWING
1.	COVER SHEET
2.	EXISTING CONDITIONS
3.	EROSION AND SEDIMENT CONTROL PLAN
4.	TEMPORARY ACCESS ROAD AND DRILL PAD
5.	SITE AND GRADING PLAN
6.	PROFILE AND SECTIONS



LANDS NOW OR FORMERLY  
JOSEPH CABBIBO  
SBL 7.4-4-2.100  
LIBER 2137 PAGE 58

LANDS NOW OR FORMERLY  
FERN EDISON  
SBL 7.4-3-47  
LIBER 4149 PAGE 288

LANDS NOW OR FORMERLY  
THOMAS AND CHRISTINE ADAMS  
SBL 7.4-3-1  
LIBER 3865 PAGE 331

LANDS NOW OR FORMERLY  
STEVEN GENTILE  
SBL 7.4-3-48  
LIBER 5433 PAGE 40

LANDS NOW OR FORMERLY  
TERENCE AND ANGELINA SCHNIEDER  
SBL 7.4-3-47.200  
LIBER 1620 PAGE 124

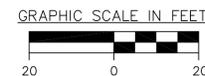
LANDS NOW OR FORMERLY  
HOWARD ROTHSTEIN  
SBL 7.4-3-46  
LIBER 1458 PAGE 610

**BENCHMARK**  
TOP OF MAG NAIL  
IN OAK TREE  
EL. 200.00'  
DATUM ASSUMED

**LEGEND**

	---195---	CONTOURS (MINOR)
	---194---	CONTOURS (MAJOR)
	—P—	PROPERTY LINE
	- - - - -	EXISTING STORM SEWER
	-OH-	EXISTING OVER HEAD WIRES
	-G.R.-	EXISTING GUIDE RAIL
	○U.P.○	UTILITY POLE
	- - - - -	GRAVEL
	- - - - -	STONE WALL
	[Brick Pattern]	STONE RETAINING WALL

**EXISTING CONDITIONS**  
SCALE: 1" = 20'



- NOTES:**
1. FIELD SURVEY BY BRINNIER AND LARIOS, P.C. ON OCTOBER 25, 2016.
  2. TOPOGRAPHIC CONTOURS BASED ON A ASSUMED DATUM OF ELEVATION 200.00' AT BENCHMARK AS SHOWN.
  3. PROPERTY LINES ARE BASED ON

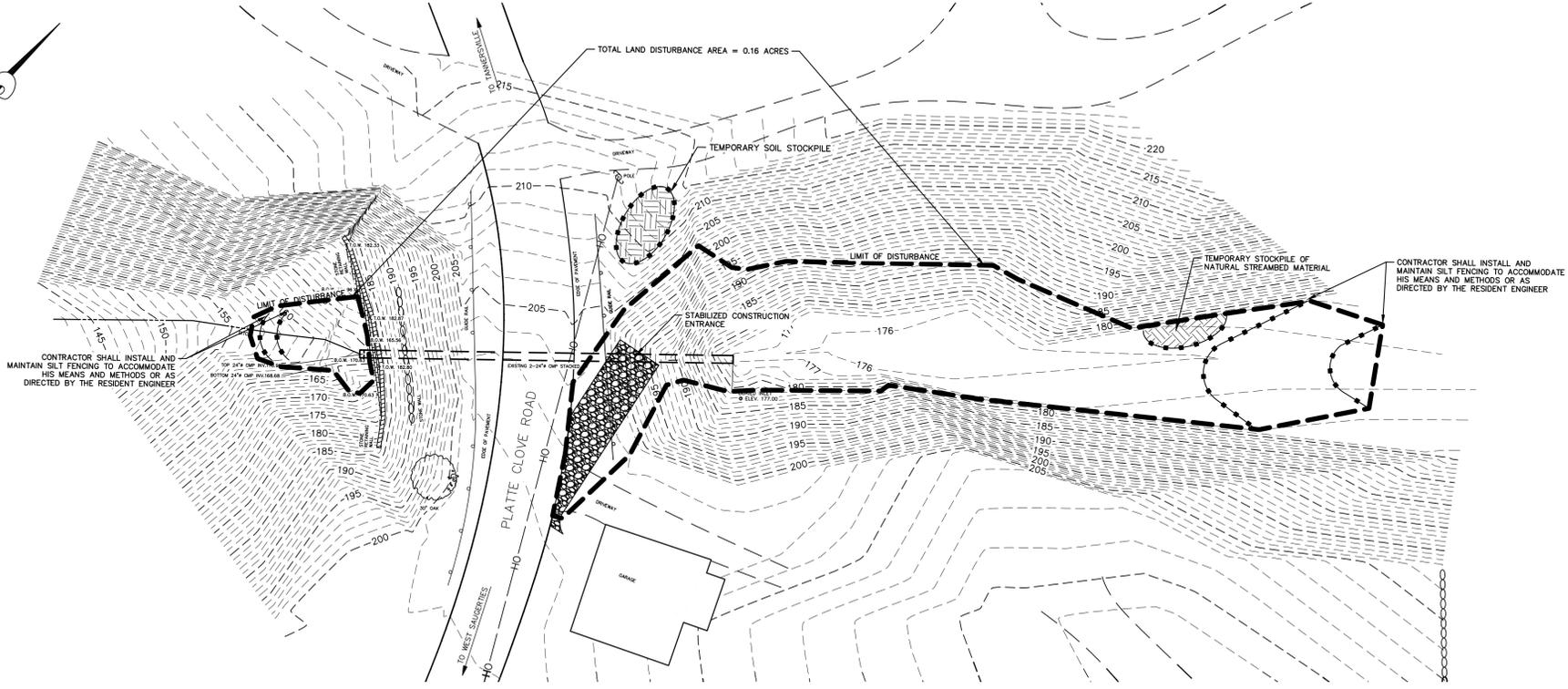
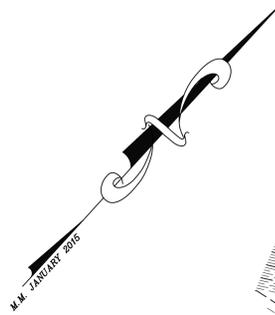
**NOTE:**  
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

**EXISTING CONDITIONS**  
CONTRACT TSA-171

PLATTE CLOVE ROAD CULVERT REPLACEMENT		NY RISING COMMUNITY RECONSTRUCTION PROGRAM	
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY		TOWN OF SAUGERTIES	
ULSTER COUNTY		NEW YORK	
DATE	REVISION RECORD	BRINNIER & LARIOS, P.C.	
5/18/17	30% DESIGN FOR AGENCY	ENGINEERS & LAND SURVEYORS	
	REVIEW	67 MAIDEN LANE KINGSTON, N.Y.	
		Phone: 845-338-7622 Fax: 845-338-7660	
SCALE	DATE	SHEET NO.	
1" = 20'	MAY 2017	2 OF 6	
	DWG	CHK	
	RJS		



**LEGEND**

- 195 --- CONTOURS (MINOR)
- 194 --- CONTOURS (MAJOR)
- P — PROPERTY LINE
- S — EXISTING STORM SEWER
- OH — EXISTING OVER HEAD WIRES
- GR — EXISTING GUIDE RAIL
- UP — UTILITY POLE
- G — GRAVEL
- S — STONE WALL
- S — STONE RETAINING WALL
- L — LIMIT OF DISTURBANCE
- S — SILT FENCE

**EROSION AND SEDIMENT CONTROL PLAN**  
SCALE: 1" = 20'

GRAPHIC SCALE IN FEET



**EROSION & SEDIMENT CONTROL NOTES:**

ALL CONSTRUCTION ACTIVITIES INVOLVING THE REMOVAL OR DEPOSITION OF SOILS ARE TO BE PROVIDED WITH APPROPRIATE PROTECTIVE MEASURES TO MINIMIZE EROSION OF, AND CONTAIN SEDIMENT WITHIN, THE AREA UNDER DEVELOPMENT. THOSE METHODS DEEMED MOST EFFECTIVE ARE DESCRIBED BELOW.

- FOLLOW THE CONSTRUCTION SCHEDULE OUTLINED ON THIS SHEET.
- CLEAR ONLY WHAT IS REQUIRED FOR THE IMMEDIATE CONSTRUCTION ACTIVITY. CLEARING AND GRADING SHOULD BE DONE AS CONSTRUCTION PROGRESSES. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION.
- NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE.
- PRIOR TO THE START OF CONSTRUCTION, TEMPORARY SILT FENCING AND/OR OTHER APPROVED DEVICES SHALL BE INSTALLED WHERE DEEMED NECESSARY TO PREVENT SOIL MIGRATION INTO WATER COURSES, WETLANDS, STORM DRAINAGE SYSTEMS, AND OFF SITE. SEE SILTATION CONTROL NOTES FOR INSTALLATION AND MAINTENANCE OF SILT FENCING.
- WHENEVER POSSIBLE, SITE CONSTRUCTION ACTIVITIES SHALL START AT THE NEAREST POINT UPSLOPE OF THE EROSION CONTROL DEVICE, AND PROCEED TO ACTIVITIES FURTHER UPSLOPE.
- SILT FENCING/TRAPS SHALL BE CLEANED OUT WHEN ACCUMULATED SEDIMENT HAS REDUCED THE CAPACITY OF THE TRAP BY 50%. SEDIMENT REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF IN A MANNER WHICH PREVENTS IT FROM ENTERING THE TRAP AGAIN.
- WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE PERIOD OF EXPOSURE SHALL BE KEPT TO A MINIMUM. IF PERMANENT VEGETATION, PAVEMENT, AND/OR STRUCTURES ARE NOT COMPLETED WITHIN 14 DAYS, STRAW MULCH (OR OTHER APPROVED MATERIAL) SHALL BE SPREAD TO TEMPORARILY COVER EXPOSED SOILS.
- NO PERMITTED CONSTRUCTION ACTIVITIES SHALL TAKE PLACE WITHIN ANY WATERCOURSES OR WETLANDS UNTIL APPROPRIATE MEASURES ARE TAKEN TO PROTECT AND/OR TEMPORARILY DIVERT FLOWING WATER PAST THE WORK AREA AND DOWNSTREAM SEDIMENT CONTROLS ARE IN PLACE. IN GENERAL, THESE SEDIMENT CONTROLS SHALL NOT BE REMOVED UNTIL UPSTREAM ACTIVITY HAS BEEN SATISFACTORILY COMPLETED AND THE STREAM FLOWS CLEAR.
- ALL TOPSOIL WHICH HAS BEEN STRIPPED AND STOCKPILED SHALL BE PLACED AT LEAST 50 FEET FROM ANY WETLAND OR WATERCOURSE. THE TOE OF THE STOCKPILE SHALL BE PROTECTED IN A MANNER WHICH PREVENTS SOIL FROM MIGRATING.
- RING ANY TEMPORARY STOCKPILES WITH SILT FENCE TO PREVENT EROSION OF THE PILE.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED REGULARLY IN PROPER FUNCTIONING CONDITION UNTIL ALL AREAS EXPOSED DURING CONSTRUCTION HAVE BEEN SUITABLY STABILIZED WITH FINAL VEGETATIVE COVER, PERMANENT STRUCTURES, OR PAVEMENT.
- THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ALL ENVIRONMENTAL/SPDES PERMITS ISSUED FOR THIS PROJECT AND LOCAL, STATE AND FEDERAL REGULATIONS.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF THE EXISTING DRAINAGE SWALES BY SILT, SEDIMENT, FUELS, SOLVENTS, LIQUIDS, CONCRETE LEACHATE, OR ANY OTHER POLLUTANT ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT.

**CONSTRUCTION SCHEDULE:**

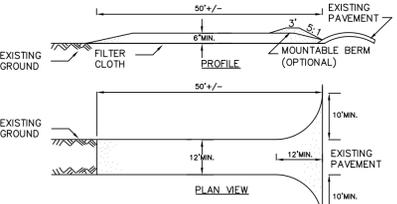
- FLAG THE LIMIT OF DISTURBANCE TO DELINEATE THE WORK AREAS.
- HOLD A PRE-CONSTRUCTION MEETING PRIOR TO STARTING CONSTRUCTION.
- INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL TEMPORARY SILT FENCING. SILT FENCE LOCATIONS AS DEPICTED ON PLANS ARE ILLUSTRATIVE. CONTRACTOR SHALL EXERCISE DILIGENCE WHEN INSTALLING SILT FENCE TO CAPTURE ALL SEDIMENT LADEN RUNOFF.
- CLEAR AND ROUGH GRADE SITE IN THE AREAS OF IMMEDIATE CONSTRUCTION ACTIVITY ONLY.
- STOCKPILE TOPSOIL, CONSTRUCT CHANNELS. BARE AREAS SHALL BE MULCHED SHOULD GRADING BE DISCONTINUED FOR MORE THAN 14 DAYS.
- COMPLETE FINAL GRADING FOR SLOPE STABILIZATION.
- COMPLETE FINAL GRADING. TOPSOIL CRITICAL AREAS AND PERMANENTLY VEGETATE, LANDSCAPE AND MULCH.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AT LEAST ONCE EVERY (7) SEVEN CALENDER DAYS. NEEDED REPAIRS WILL BE MADE IMMEDIATELY. IF GREATER THAN 5 ACRES OF LAND IS DISTURBED AT ONE TIME, THE QUALIFIED INSPECTOR SHALL CONDUCT 2 SITE INSPECTIONS EVERY (7) SEVEN CALENDER DAYS.
- AFTER THE SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.

**SILTATION CONTROL NOTES:**

- ALL SILTATION AND EROSION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO ANY EXCAVATION AND AS ACCEPTABLE TO THE ENGINEER. SILT FENCE SHALL BE MAINTAINED FOR THE DURATION OF SAID WORK AND SHALL NOT BE REMOVED UNTIL APPROVED BY THE ENGINEER.
- SILT FENCING SHALL BE CLEANED OUT WHEN ACCUMULATED SEDIMENT HAS REDUCED THE CAPACITY BY 50% OR BULGES DEVELOP IN THE FABRIC. SEDIMENT REMOVED BE PROPERLY DISPOSED OF IN A MANNER WHICH PREVENTS IT FROM ENTERING THE AREA AGAIN.
- SILT FENCE SHALL BE INSTALLED IN ALL AREAS THAT WILL HAVE AN EXCAVATION OPEN FOR MORE THAN 24 HOURS.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL AND NO LESS THAN ONCE EVERY WEEK. ANY NEED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED AND INSTALLED FOR THEIR APPROPRIATE PHASE OF THE PROJECT.

**LANDSCAPING & VEGETATION ESTABLISHMENT NOTES:**

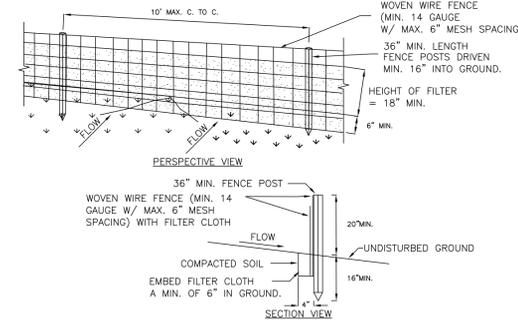
- ALL TEMPORARY SEEDING SHALL BE RYEGRASS (ANNUAL OR PERENNIAL) AT AN APPLICATION RATE OF 0.7 POUNDS PER 1,000 SQUARE FEET. MULCH IMMEDIATELY AFTER SEEDING WITH STRAW AT A RATE OF 2 BALES (90 lbs) PER 1,000 SQUARE FEET.
- ALL OTHER SITE AREAS SPECIFIED FOR PERMANENT GRASS VEGETATION SHALL BE SEED WITH A MIXTURE OF PERENNIAL RYEGRASS SEED OF THE PENNFINE/LINN VARIETY AT A RATE 0.10 POUNDS PER 1,000 SQUARE FOOT. EROSION AND SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE INSPECTED UNTIL FULL VEGETATION IS ESTABLISHED.
- STRAW MULCH SHALL BE USED FOR ALL AREAS WHERE VEGETATION IS TO BE ESTABLISHED. MULCH SHALL BE INSTALLED IMMEDIATELY AFTER SEEDING AT A RATE OF 90-100 POUNDS PER 1,000 SQUARE FEET.



**CONSTRUCTION SPECIFICATIONS**

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AND MAINTAINED AT SITE ENTRANCES DURING PHASE I CONSTRUCTION AND AT DRIVEWAY ENTRANCES DURING PHASE II CONSTRUCTION.

**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**CONSTRUCTION SPECIFICATIONS**

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100K, STABILINKA T140N, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- SILT FENCE LOCATIONS AS DEPICTED ON PLANS ARE ILLUSTRATIVE. CONTRACTOR SHALL EXERCISE DILIGENCE WHEN INSTALLING SILT FENCE TO CAPTURE ALL SEDIMENT LADEN RUNOFF.

**SILT FENCE DETAIL**  
NOT TO SCALE

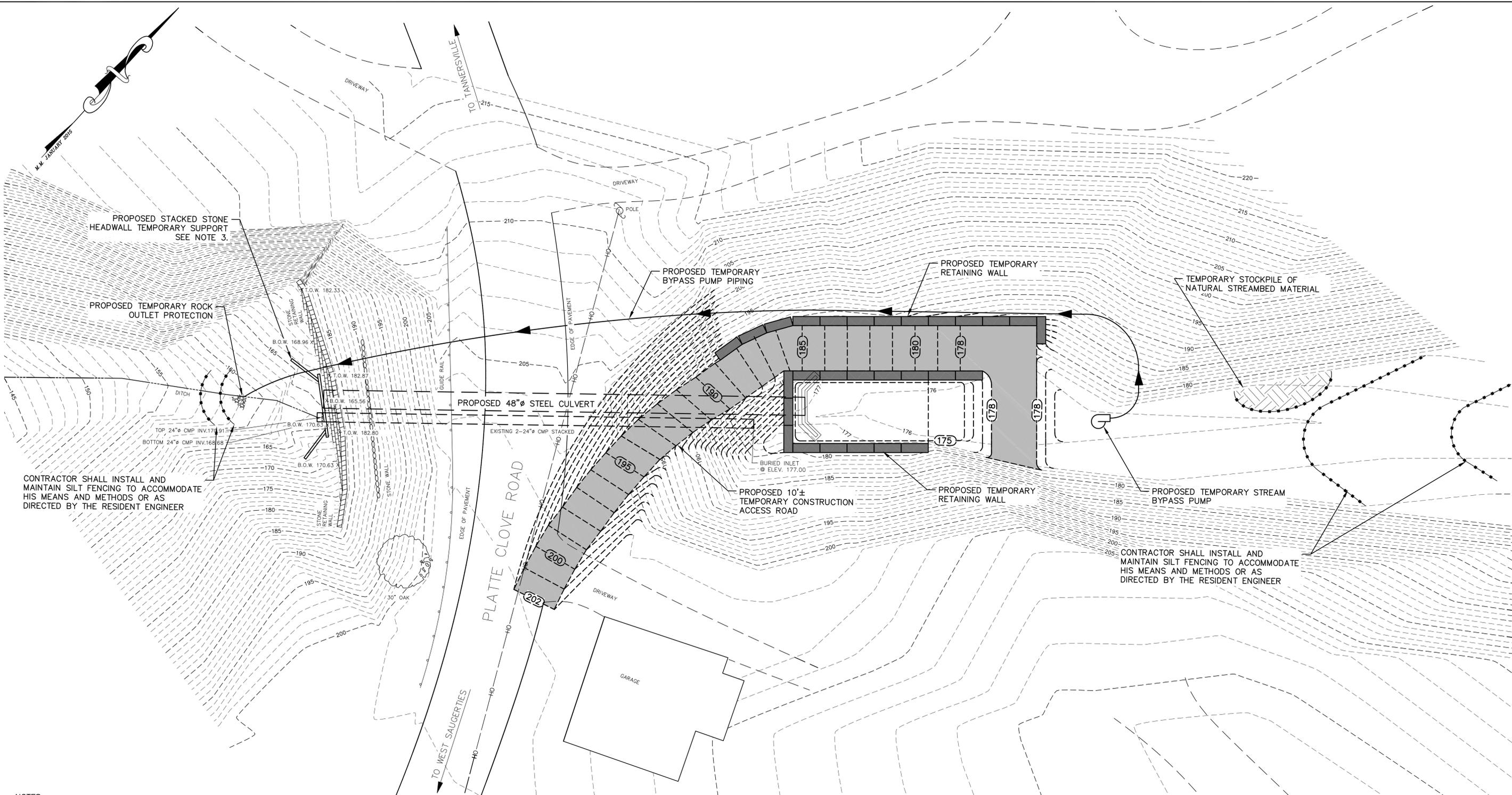
**EROSION AND SEDIMENT CONTROL PLAN**  
CONTRACT TSA-171

PLATTE CLOVE ROAD CULVERT REPLACEMENT		NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY	
TOWN OF SAUGERTIES	ULSTER COUNTY	NEW YORK	
DATE	REVISION RECORD	BRINNIER & LARIOS, P.C.	
5/12/17	30% DESIGN FOR AGENCY REVIEW	ENGINEERS & LAND SURVEYORS	
		67 MAIDEN LANE KINGSTON, N.Y.	
		Phone: 845-338-7622 Fax: 845-338-7660	
SCALE	DATE	DATE	SHEET NO.
1" = 20'	MAY 2017	CHK	3 OF 6
	DWC	RJS	



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

NOTE: The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.



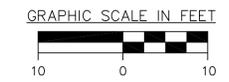
- NOTES:
1. WORK TO BE PERFORMED IN LATE SUMMER OR EARLY FALL WHEN STREAM IS DRY.
  2. ALIGNMENT AND GRADING OF TEMPORARY CONSTRUCTION ACCESS ROAD ARE ILLUSTRATIVE. CONTRACTOR TO INSTALL AS NEEDED TO SUIT THEIR MEANS AND METHODS.
  3. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING SUPPORTS TO PRESERVE THE BLUE STONE HEADWALL ON THE OUTLET END OF THE DIRECTIONAL DRILLING OPERATION.
  4. CONTRACTOR TO MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES. CONTRACTOR TO SETUP A MUTCD TYPICAL APPLICATION 10 LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS.

NOTE: The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

**LEGEND**

--- 195 ---	CONTOURS (MINOR)
--- 194 ---	CONTOURS (MAJOR)
---	PROPERTY LINE
---	EXISTING STORM SEWER
OH	EXISTING OVER HEAD WIRES
---	EXISTING GUIDE RAIL
○	UTILITY POLE
---	GRAVEL
---	STONE WALL
---	STONE RETAINING WALL
---	SILTFENCE
---	TEMPORARY CONSTRUCTION CONTOURS (SEE NOTE 2)
---	TEMPORARY CONSTRUCTION ACCESS ROAD
---	TEMPORARY RETAINING WALL

**TEMPORARY ACCESS ROAD AND DRILL PAD**  
SCALE: 1" = 10'

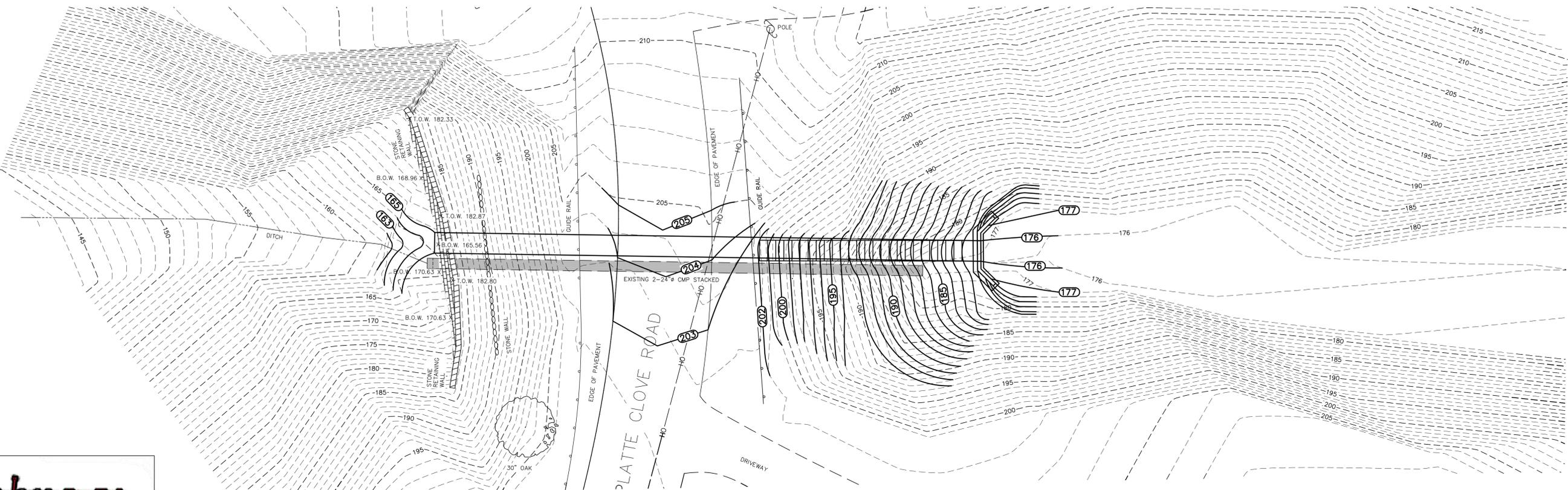
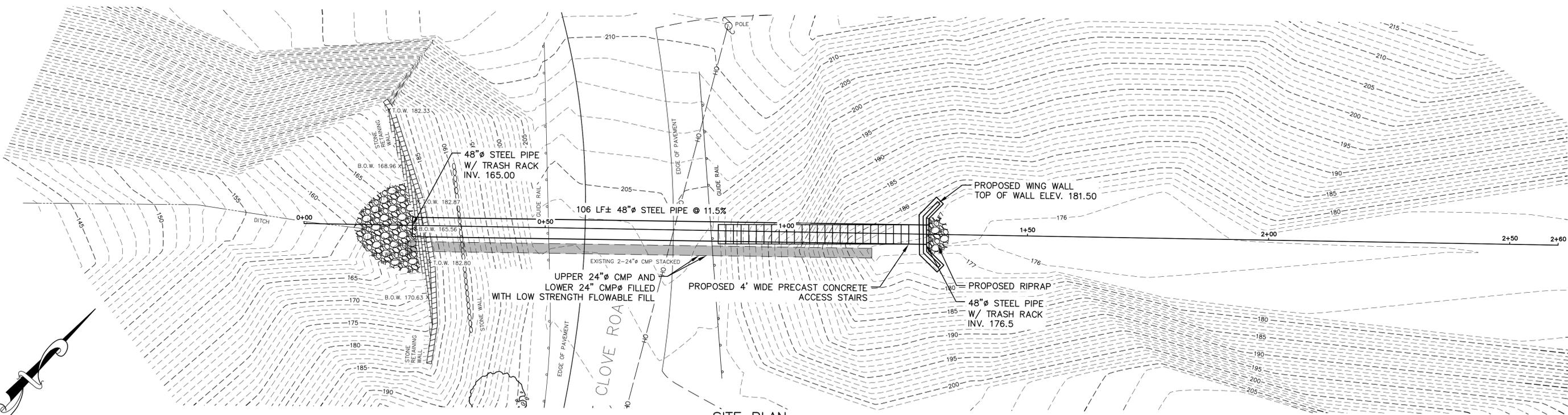


Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

**TEMPORARY ACCESS ROAD AND DRILL PAD**  
CONTRACT TSA-171

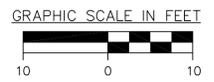
TOWN OF SAUGERTIES		ULSTER COUNTY		NEW YORK
DATE	REVISION RECORD	BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660		
5/12/17	30% DESIGN FOR AGENCY	SCALE	DATE	SHEET NO.
	REVIEW	1" = 10'	MAY 2017	4 OF 6
			DWG	CHK
			RJS	

M.M. JANUARY 2015



**LEGEND**

- 195 --- CONTOURS (MINOR)
- 194 --- CONTOURS (MAJOR)
- P — PROPERTY LINE
- S — EXISTING STORM SEWER
- O — EXISTING OVER HEAD WIRES
- G — EXISTING GUIDE RAIL
- U — UTILITY POLE
- C — GRAVEL
- S — STONE WALL
- S — STONE RETAINING WALL
- 185 — PROPOSED CONTOURS
- F — PROPOSED LOW STRENGTH FLOWABLE FILL
- R — PROPOSED RIPRAP



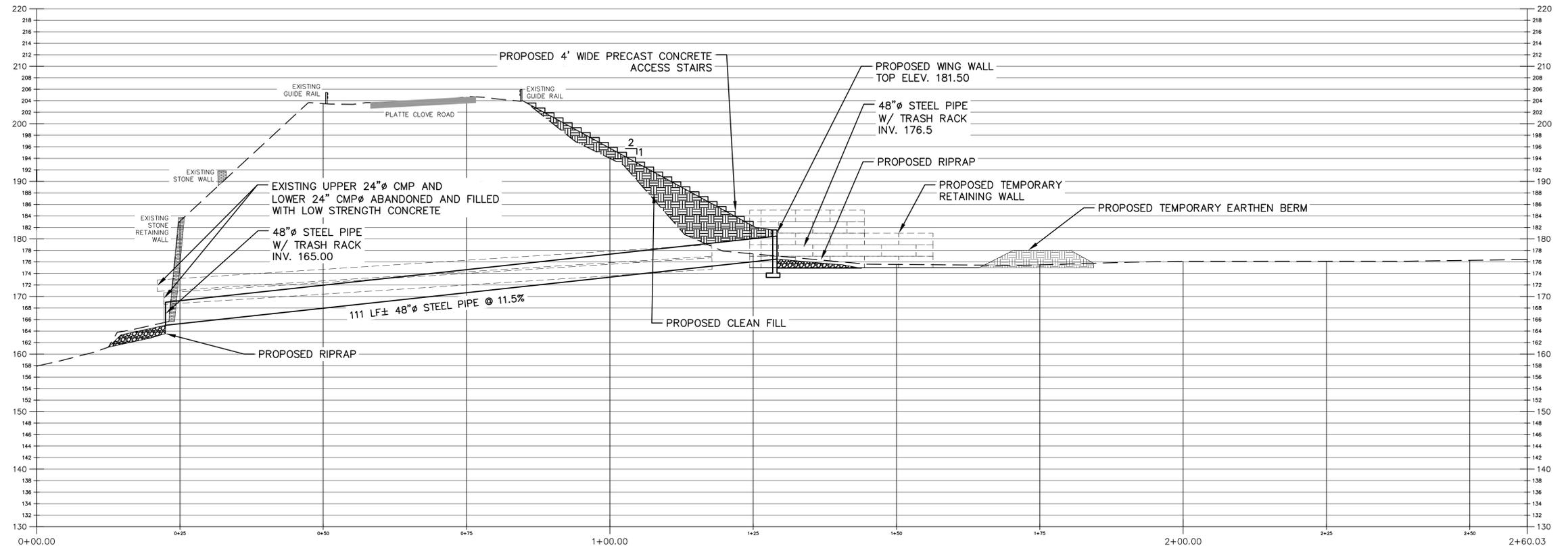
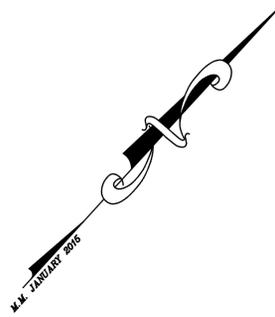
Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

**SITE AND GRADING PLAN**  
CONTRACT TSA-171

PLATTE CLOVE ROAD CULVERT REPLACEMENT		NY RISING COMMUNITY RECONSTRUCTION PROGRAM	
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY		TOWN OF SAUGERTIES	
ULSTER COUNTY		NEW YORK	
DATE	REVISION RECORD	BRINNIER & LARIOS, P.C.	
5/12/17	30% DESIGN FOR AGENCY REVIEW	ENGINEERS & LAND SURVEYORS	
		67 MAIDEN LANE KINGSTON, N.Y.	
		Phone: 845-338-7622 Fax: 845-338-7660	
SCALE	DATE	DATE	SHEET NO.
1" = 10'	MAY 2017	MAY 2017	5 OF 6
	DWG	CHK	
	RJS		

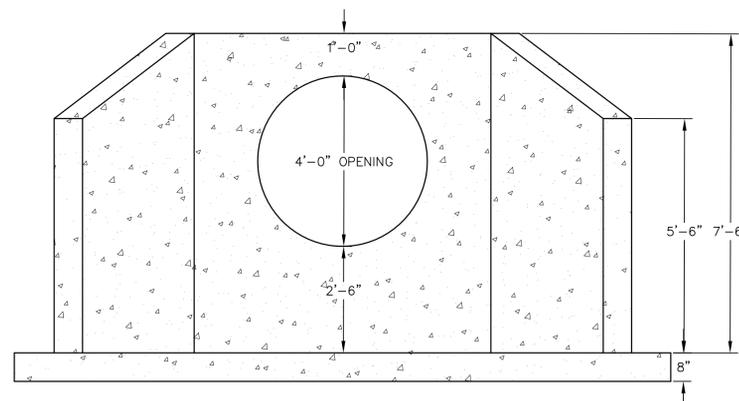
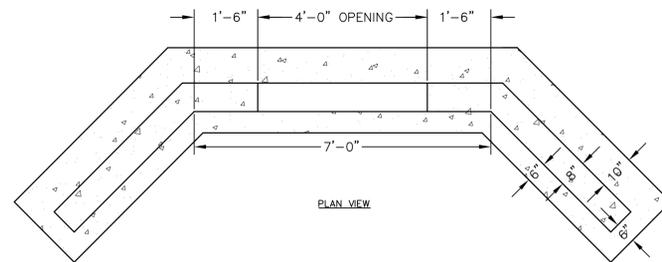
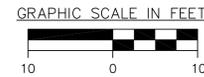


**NOTE:** The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.



**PROFILE OF SITE**

HOR. SCALE: 1" = 10'  
VERT. SCALE: 1" = 10'



**PROPOSED WING WALL**  
NOT TO SCALE

**NOTE:**  
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

**PROFILE AND SECTIONS**  
**CONTRACT TSA-171**

PLATTE CLOVE ROAD CULVERT REPLACEMENT		NY RISING COMMUNITY RECONSTRUCTION PROGRAM	
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY		TOWN OF SAUGERTIES	
ULSTER COUNTY		NEW YORK	
DATE	REVISION RECORD	<b>BRINNIER &amp; LARIOS, P.C.</b> ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660	
5/12/17	30% DESIGN FOR AGENCY		
	REVIEW		
SCALE	DATE	SHEET NO.	
AS SHOWN	MAY 2017	6 OF 6	
	DWG	CHK	
	RJS		

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

Division of Environmental Permits, Region 3  
21 South Putt Corners Road, New Paltz, NY 12561-1620  
P: (845) 256-3054 | F: (845) 255-4659  
www.dec.ny.gov



**Department of  
Environmental  
Conservation**

February 1, 2017

Ms. Lori Shirley  
Governor's Office of Storm Recovery  
NYS Homes and Community Renewal  
38-40 State Street  
Albany, NY 12207

RE: Platte Clove Improvements  
Town of Saugerties, Ulster County  
CH #: 6865

Dear Ms. Shirley:

Department of Environmental Conservation (DEC) staff have reviewed the application for funding, dated March 2015 and have discussed the project with Joseph Mihm, P.E., of Brinnier and Larios, P.C., for the project involving the replacement of two culverts on Platte Clove Road. DEC offers the following comments:

**PROTECTION OF WATERS**

The following stream/pond/waterbody is located within or near the site you indicated:

Name	Class	DEC Water Index Number	Status
Tributary of Plattekill Creek	A	H-171-11-16	Protected

A Protection of Waters permit is required to physically disturb the bed or banks (up to 50 feet from stream) of any streams identified above as "protected."

If a permit is not required, please note, however, you are still responsible for ensuring that work shall not pollute any stream or waterbody. Care shall be taken to stabilize any disturbed areas promptly after construction, and all necessary precautions shall be taken to prevent contamination of the stream or waterbody by silt, sediment, fuels, solvents, lubricants, or any other pollutant associated with the project.

**FRESHWATER WETLANDS**

Your project/site is not within a New York State protected Freshwater Wetland. However, please contact your town officials and the United States Army Corps of Engineers in New York City, telephone (917) 790-8511 (Westchester/Rockland Counties), or (917) 790-8411 (other counties), for any permitting they might require.



**STATE-LISTED SPECIES**

No records of sensitive resources were identified by this review.

The absence of data does not necessarily mean that rare or state-listed species, natural communities or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information which indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

**OTHER**

Please note that this letter only addresses the requirements for the following permits from the Department:

Protection of Waters       State-listed Species       Freshwater Wetlands

Other permits from this Department or other agencies may be required for projects conducted on this property now or in the future. Also, regulations applicable to the location subject to this determination occasionally are revised and you should, therefore, verify the need for permits if your project is delayed or postponed. This determination regarding the need for permits will remain effective for a maximum of one year unless you are otherwise notified. Applications may be downloaded from our website at [www.dec.ny.gov](http://www.dec.ny.gov) under "Programs" then "Division of Environmental Permits."

Please contact this office if you have questions regarding the above information. Thank you.

Sincerely,



Sarah Pawliczak

Division of Environmental Permits  
Region 3, Telephone No. 845-256-3050

cc: Brian Drumm, NYSDEC Bureau of Habitat  
Joseph Mihm, Brinnier and Larios, P.C.

**NOTE: Regarding erosion/sedimentation control requirements:**

Stormwater discharges require a State Pollutant Discharge Elimination System (SPDES) Stormwater permit from this Department if they either:

- occur at industrial facilities and contain either toxic contaminants or priority pollutants OR
- result from construction projects involving the disturbance of 5000 square feet or more of land within the NYC Department of Environmental Protection East of

Hudson Watershed or for proposed disturbance of 1 acre or more of land outside the NYC DEP Watershed

Your project may be covered by one of two Statewide General Permits or may require an individual permit. For information on stormwater and the general permits, see the DEC website at <http://www.dec.ny.gov/chemical/8468.html>.

For construction permits, if this site is within an MS4 area (Municipal Separate Storm Sewer System), the stormwater plan must be reviewed and accepted by the municipality and the MS-4 Acceptance Form must be submitted to the Department. If the site is not within an MS4 area and other DEC permits are required, please contact the regional Division of Environmental Permits.

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program  
625 Broadway, Fifth Floor, Albany, NY 12233-4757  
P: (518) 402-8935 | F: (518) 402-8925  
[www.dec.ny.gov](http://www.dec.ny.gov)

March 29, 2018

Lori Shirley  
Governor's Office of Storm Recovery  
30-40 State St., Hampton Plaza  
Albany, NY 12207

Re: Platte Clove Culvert Improvements Project  
County: Ulster Town/City: Saugerties

Dear Ms. Shirley:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants at the project site or in its immediate vicinity. Given the nature and scope of the proposed work, we do not expect any impacts on the nearby significant chestnut-oak forest and hemlock-northern hardwood forest.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 3 Office, Division of Environmental Permits, as listed at [www.dec.ny.gov/about/39381.html](http://www.dec.ny.gov/about/39381.html).

Sincerely,



Nicholas Conrad  
Information Resources Coordinator  
New York Natural Heritage Program

**APPENDIX D**  
**SHPO CORRESPONDENCE**



December 9, 2016

Mr. Larry Moss  
Historic Preservation Technical Specialist  
New York State Office of Parks, Recreation and Historic Preservation  
Division of Historic Preservation  
Peebles Island  
P.O. Box 189  
Waterford, New York 12188-0189

Re: Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Dear Mr. Moss:

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), the Governor's Office of Storm Recovery (GOSR), an office of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery ("CDBG-DR") funds from the United States Department of Housing and Urban Development ("HUD"), is serving as the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and request for consultation.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case by case basis. In accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended (54 U.S.C. §306108), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action.

Area of Potential Effect: This culvert is located on Platte Clove Road near the intersection with Platte Clove Terrace in the Town of Saugerties, Ulster County, New York. Please the attached maps for exact project location.

Project Description: The proposed project includes scope that will utilize trenchless directional drilling. Pending verification through H&H studies, it is anticipated that the two existing 24" corrugated metal pipe culverts will be replaced with a single 60" metal pipe. This will allow for the project to avoid conventional open-cut excavation, closure of the road for an extended period, and significant disturbance of the streambed, which would make implementation unfeasible and not cost-effective.

Request for Comment: The purpose of this letter is to initiate consultation pursuant to Section 106 of the NHPA per the implementing regulations at 36 Code of Federal Regulations (CFR) Part 800. GOSR respectfully requests your review of the proposed project described herein. If you have any questions or require additional information regarding this request, please feel free to contact me at (518) 474-0755 or via email at [lori.shirley@nyshcr.org](mailto:lori.shirley@nyshcr.org). Thank you for your time and consideration.

Sincerely,

A handwritten signature in blue ink that reads "Lori Shirley".

Lori Shirley  
Deputy Director  
Bureau of Environmental Review and Assessment  
Governor's Office of Storm Recovery

**Enclosures:**  
Project Location Maps

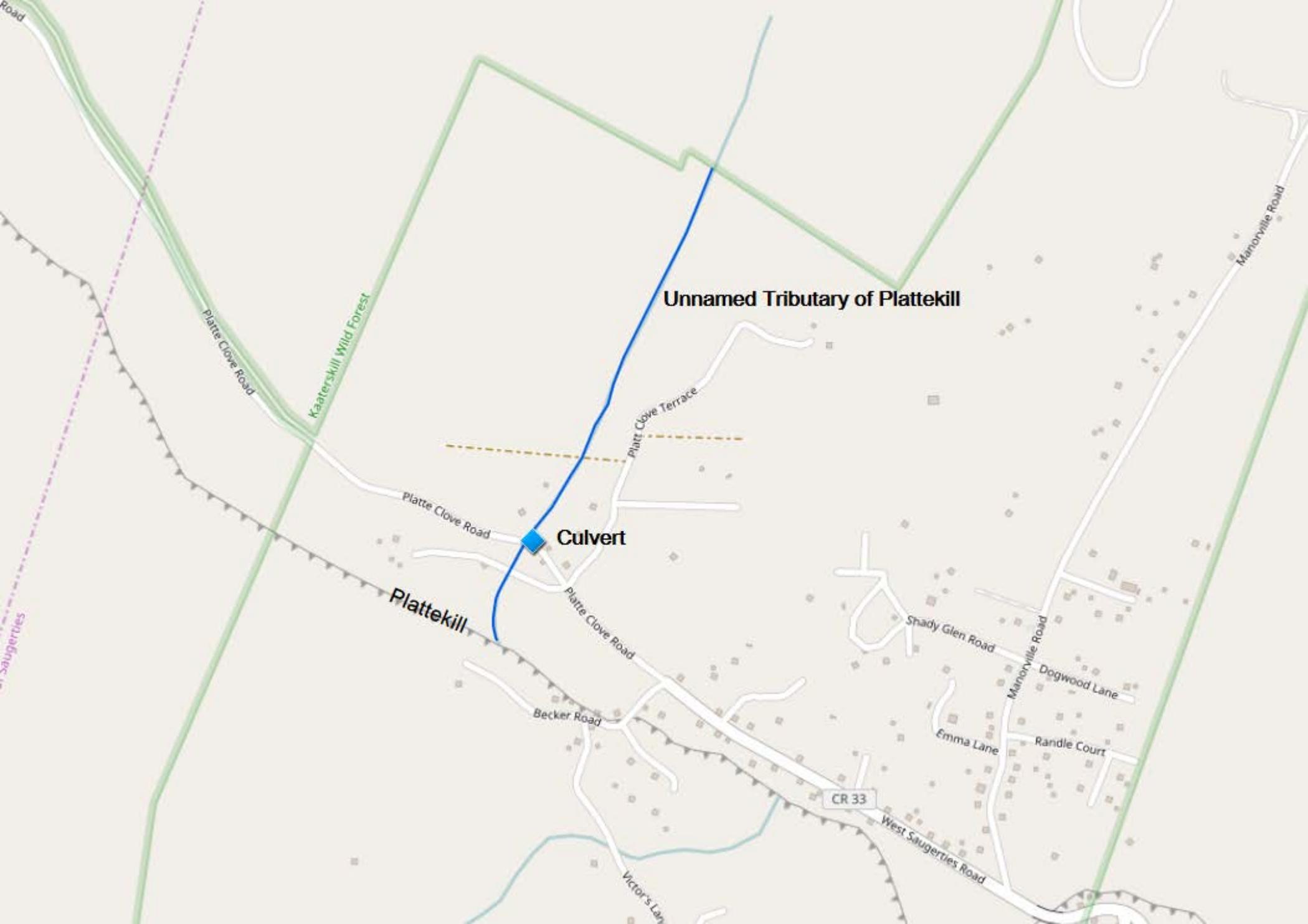


Culvert

Unnamed Tributary of Plattekill

Platte Clove Road

Platte Clove Terrace



Unnamed Tributary of Plattekill

Culvert

Plattekill

Kaaterskill Wild Forest

Platte Clove Road

Platte Clove Terrace

Platte Clove Road

Platte Clove Road

Becker Road

CR 33

Victor's Lane

West Saugerties Road

Shady Glen Road

Manorville Road

Dogwood Lane

Emma Lane

Randle Court

Manorville Road



## Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO  
Governor

ROSE HARVEY  
Commissioner

December 12, 2016

Mary Barthelme  
Governor's Office of Storm Recovery  
99 Washington Ave, Suite 1224  
Albany, NY 12231

Re: HTF/ GOSR/ CDBG-DR/ HUD  
Platte Clove Culvert Improvements  
Platt Clove Road at Platt Clove Terrace, Saugerties/ Ulster County  
16PR08409

Dear Ms. Barthelme:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Title 54, Section 306108 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/ Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based on this review, it is the opinion of SHPO that there will be No Historic Properties Affected by the proposed undertaking.

If I can be of further assistance, contact me at (518) 268-2187 or [Larry.moss@parks.ny.gov](mailto:Larry.moss@parks.ny.gov)

Sincerely,

Larry K Moss, Historic Preservation Technical Specialist  
CC: Lori Shirley

---

### Division for Historic Preservation

P.O. Box 189, Waterford, New York 12188-0189 • (518) 237-8643 • [www.nysparks.com](http://www.nysparks.com)

**APPENDIX E**  
**TRIBAL CORRESPONDENCE**



Ron LaFrance, Jr.; Paul Thompson;  
and Beverly Cook, Chiefs  
St. Regis Mohawk Tribe  
412 State Route 37  
Akwasne, NY 13655

Chet Brooks, Chief  
Delaware Tribe of Indians, Delaware  
Tribal Headquarters  
5100 Tuxedo Blvd  
Bartlesville, OK 74006

Shannon Holsey, President  
Stockbridge-Munsee Community,  
Band of the Mohicans  
N8476 Moh He Con Nuck Road  
Bowler, WI 54416

Mohawk Nation Council of Chiefs  
Of Haudenosaunee Six Nations  
Confederacy  
Akwasne Territory Box 336  
Via Rooseveltown, NY 13683-0366



ANDREW M. CUOMO  
Governor

LISA BOVA-HIATT  
Executive Director

December 9, 2016

Ron LaFrance, Jr.; Paul Thompson; and Beverly Cook, Chiefs  
St. Regis Mohawk Tribe  
412 State Route 37  
Akwesasne, NY 13655

Re: Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Dear Chiefs of the St. Regis Mohawk Tribe:

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), the Governor's Office of Storm Recovery (GOSR) is acting under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery (“CDBG-DR”) funds from the United States Department of Housing and Urban Development (“HUD”). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Tribe to respond with any concerns or comments.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by case basis. GOSR proposes to provide funding for the construction of a new culvert>>>. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 302706(b)), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action. This consultation is being sent to the Delaware Nation, Delaware Tribe of Indians, Mohawk Nation, Saint Regis Mohawk Tribe, and the Stockbridge-Munsee Community Band of Mohicans.

Area of Potential Effect: This culvert is located on Platte Clove Road near the intersection with Platte Clove Terrace in the Town of Saugerties, Ulster County, New York. Please the attached maps for exact project location.

Project Description: The proposed project includes scope that will utilize trenchless directional drilling. Pending verification through H&H studies, it is anticipated that the two existing 24” corrugated metal pipe culverts will be replaced with a single 60” metal pipe. This will allow for the project to avoid conventional open-cut excavation, closure of the road for an extended period, and significant disturbance of the streambed, which would make implementation unfeasible and not cost-effective.

GOSR is completing an environmental review for this project pursuant to HUD NEPA regulations. GOSR has initiated consultation with SHPO and no comments have been received to date. If the Area of Potential Effect encompasses historic properties of religious or cultural significance to your Tribe, please respond within 30 days or sooner. Additionally, please indicate if there are other sources of



**Governor's Office of  
Storm Recovery**

**ANDREW M. CUOMO**  
Governor

**LISA BOVA-HIATT**  
Executive Director

information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

Ms. Lori Shirley  
Deputy Director, Bureau of Environmental Services  
New York State Homes & Community Renewal  
38-40 State St., 408N, Hampton Plaza  
Albany, NY 12207

If you have any questions or require additional information regarding this request, please feel free to contact me at (518) 474-0755 or via email at [lori.shirley@nyshcr.org](mailto:lori.shirley@nyshcr.org). Thank you for your time and consideration.

Sincerely,

Lori A. Shirley  
Deputy Director  
Bureau of Environmental Review and Assessment  
Governor's Office of Storm Recovery

Enclosures:

Figure 1: Project Location

**Electronic letter sent to:**

Arnold Printup  
Saint Regis Mohawk Tribe, THPO  
412 State Route 37  
Akwesasne, NY 13655

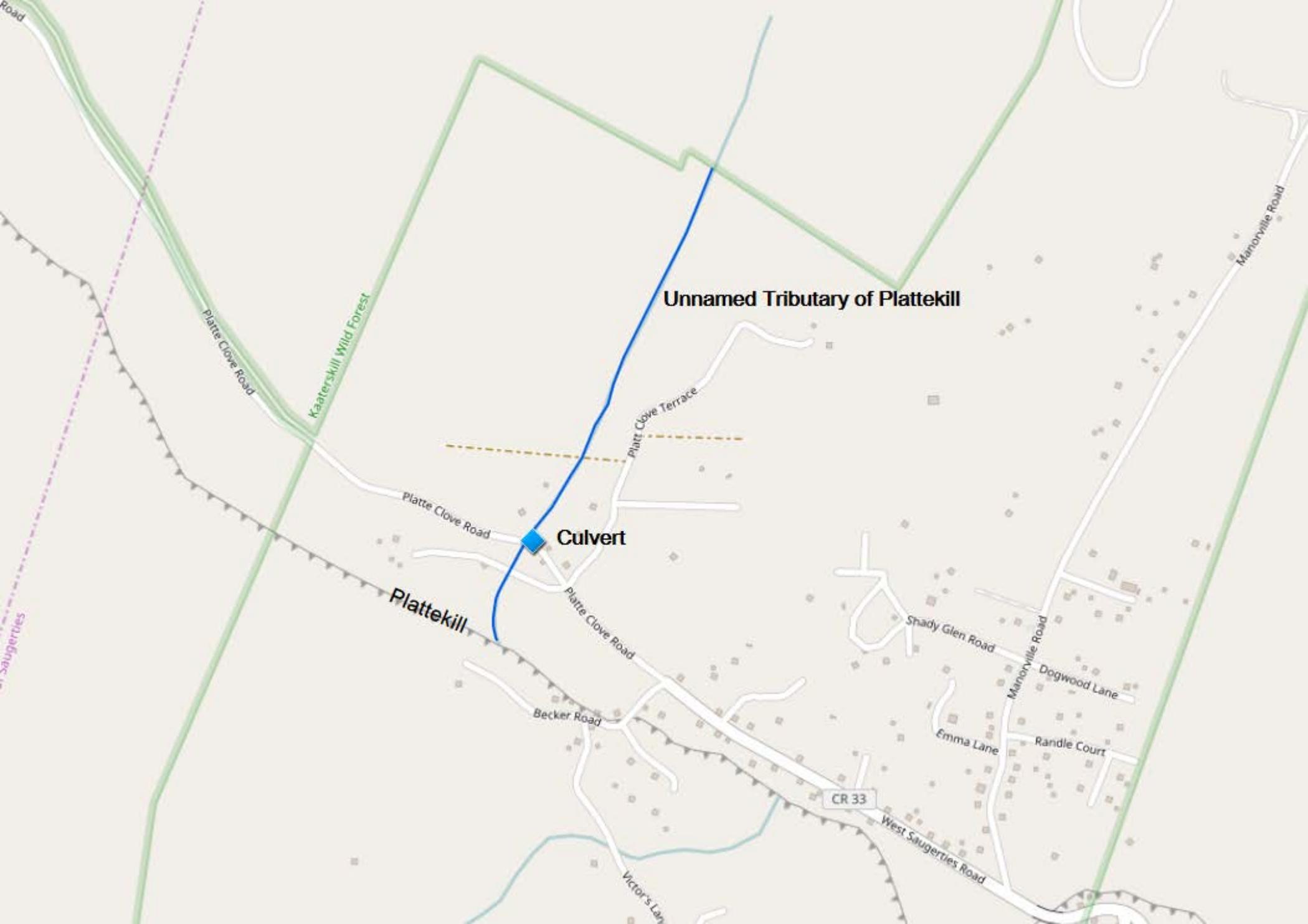


Culvert

Unnamed Tributary of Plattekill

Platte Clove Road

Platte Clove Terrace



Unnamed Tributary of Plattekill

Culvert

Plattekill

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ANDREW M. CUOMO  
Governor

LISA BOVA-HIATT  
Executive Director

December 9, 2016

Kerry Holton, President  
Delaware Nation  
P.O. Box 825  
Anadarko, OK 73005

Re: Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Dear Kerry Holton:

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), the Governor's Office of Storm Recovery (GOSR) is acting under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery (“CDBG-DR”) funds from the United States Department of Housing and Urban Development (“HUD”). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Nation to respond with any concerns or comments.

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**Governor's Office of  
Storm Recovery**

**ANDREW M. CUOMO**  
Governor

**LISA BOVA-HIATT**  
Executive Director

information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

Ms. Lori Shirley  
Deputy Director, Bureau of Environmental Services  
New York State Homes & Community Renewal  
38-40 State St., 408N, Hampton Plaza  
Albany, NY 12207

If you have any questions or require additional information regarding this request, please feel free to contact me at (518) 474-0755 or via email at [lori.shirley@nyshcr.org](mailto:lori.shirley@nyshcr.org). Thank you for your time and consideration.

Sincerely,

Lori A. Shirley  
Deputy Director  
Bureau of Environmental Review and Assessment  
Governor's Office of Storm Recovery

Enclosures:

Figure 1: Project Location

**Electronic letter sent to:**

Nekole Alligood, Cultural Preservation Director  
Delaware Nation  
P.O. Box 825  
Anadarko, OK 73005

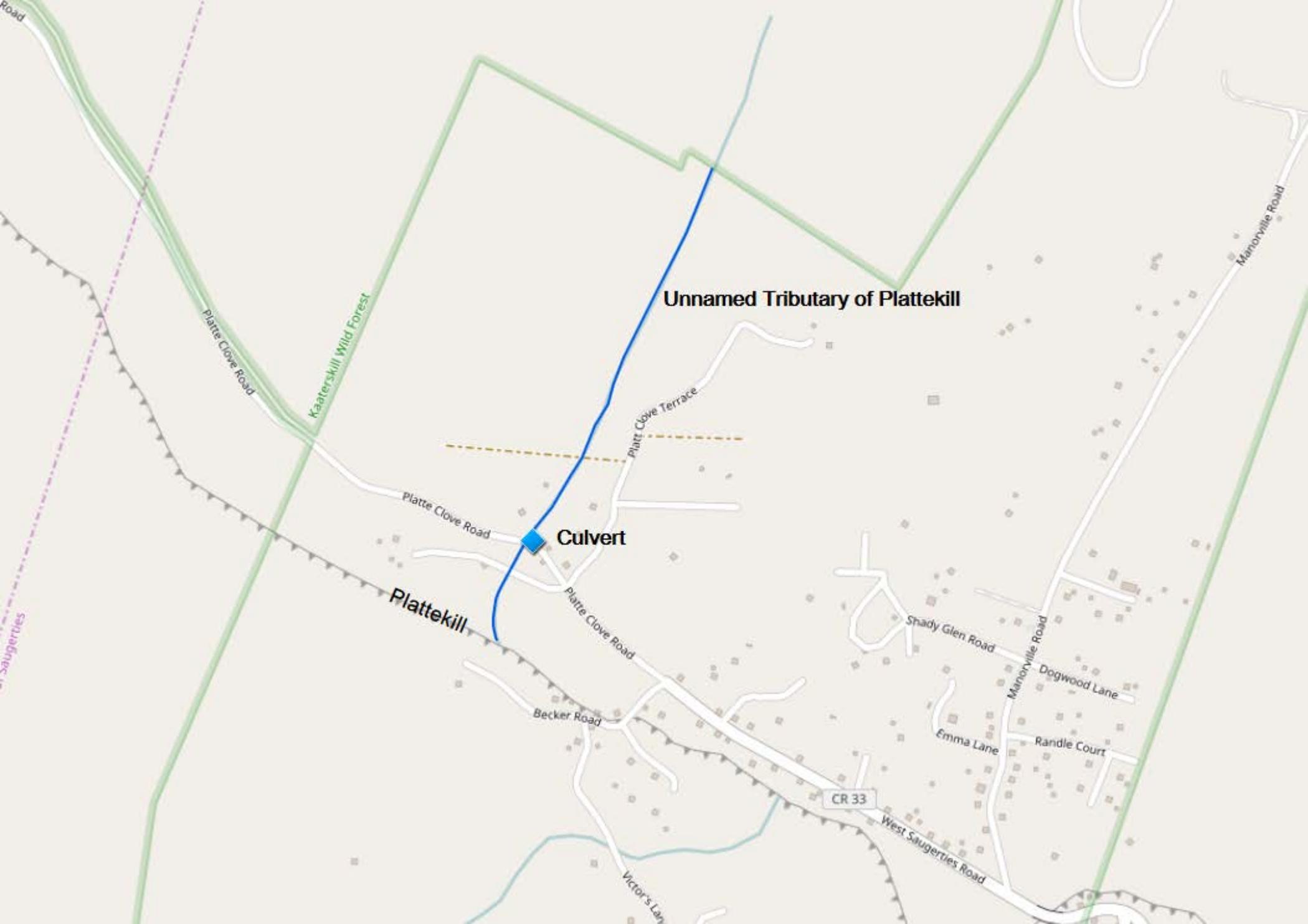


Culvert

Unnamed Tributary of Plattekill

Platte Clove Road

Platte Clove Terrace



Unnamed Tributary of Plattekill

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**Governor's Office of  
Storm Recovery**

**ANDREW M. CUOMO**  
Governor

**LISA BOVA-HIATT**  
Executive Director

December 9, 2016

Chet Brooks, Chief  
Delaware Tribe of Indians, Delaware Tribal Headquarters  
5100 Tuxedo Blvd  
Bartlesville, OK 74006

Re: Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Dear Chief Chet Brooks:

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), the Governor's Office of Storm Recovery (GOSR) is acting under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery (“CDBG-DR”) funds from the United States Department of Housing and Urban Development (“HUD”). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Tribe to respond with any concerns or comments.

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**Governor's Office of  
Storm Recovery**

**ANDREW M. CUOMO**  
Governor

**LISA BOVA-HIATT**  
Executive Director

information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

Ms. Lori Shirley  
Deputy Director, Bureau of Environmental Services  
New York State Homes & Community Renewal  
38-40 State St., 408N, Hampton Plaza  
Albany, NY 12207

If you have any questions or require additional information regarding this request, please feel free to contact me at (518) 474-0755 or via email at [lori.shirley@nyshcr.org](mailto:lori.shirley@nyshcr.org). Thank you for your time and consideration.

Sincerely,

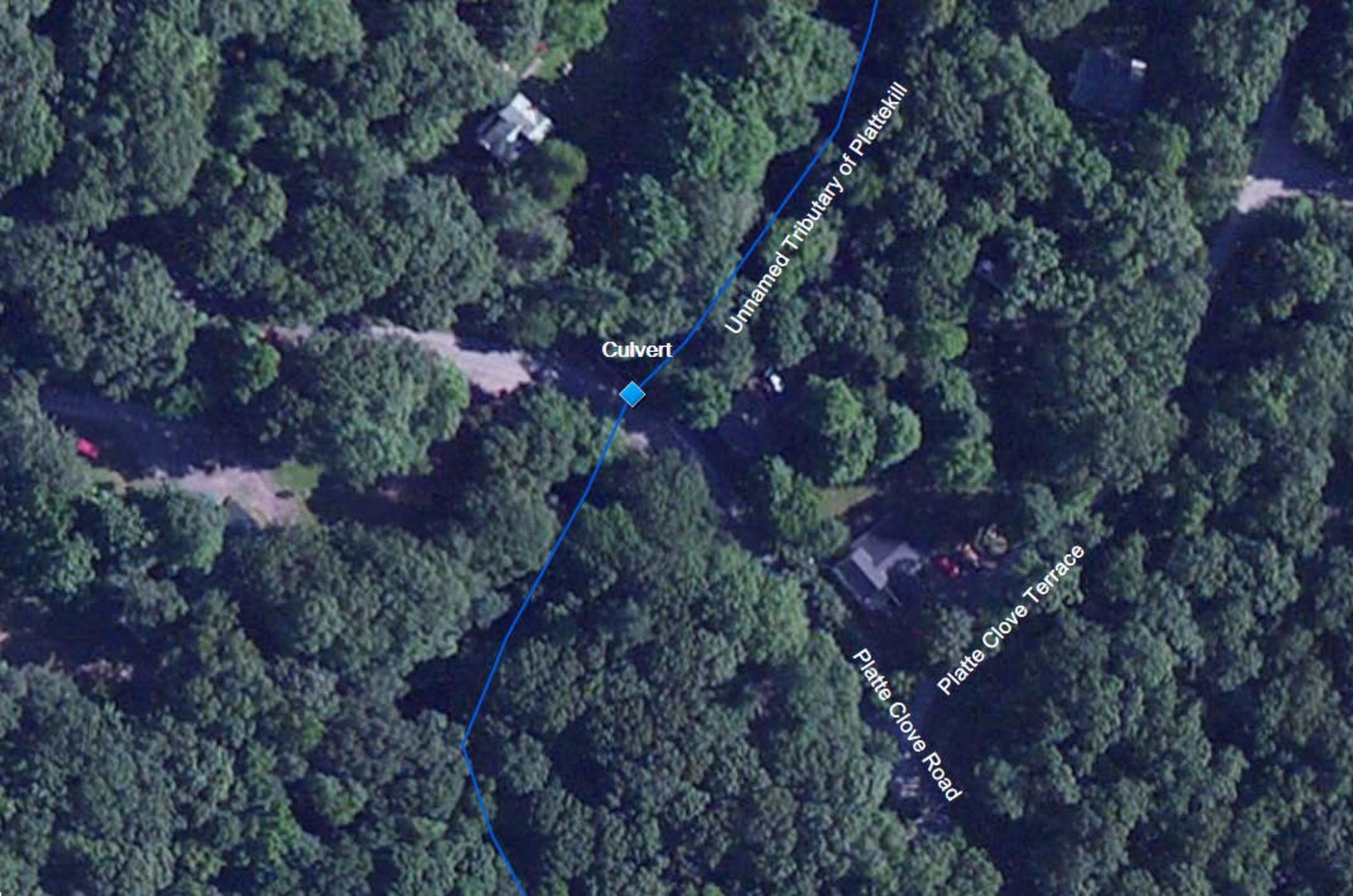
Lori A. Shirley  
Deputy Director  
Bureau of Environmental Review and Assessment  
Governor's Office of Storm Recovery

Enclosures:

Figure 1: Project Location

**Electronic letter sent to:**

Susan Bachor  
Delaware Tribe of Indians Historic Preservation Representative  
P.O. Box 64  
Pocono Lake, PA 73005

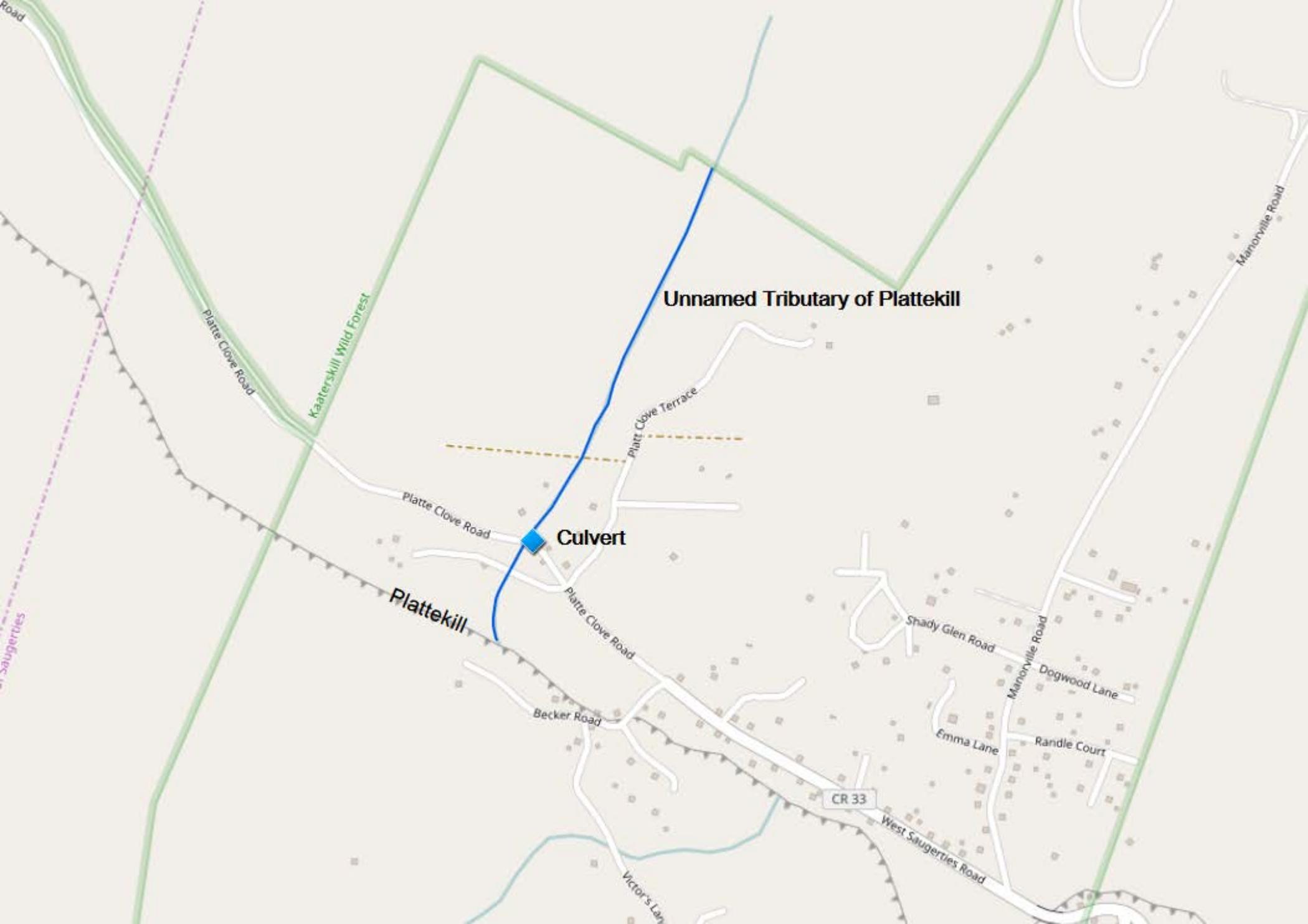


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Delaware Tribe Historic Preservation Representatives  
P.O. Box 64  
Pocono Lake, PA 18347  
[temple@delawaretribe.org](mailto:temple@delawaretribe.org)

December 14, 2016

Governor's Office of Storm Recovery  
Bureau of Environmental Review and Assessment  
Att: Lori Shirley  
25 Beaver St.  
New York, NY 10004

**Re: Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York**

Ms. Shirley,

Thank you for sending the Delaware Tribe additional information regarding the above referenced project. Our review indicates that there could be culturally significant areas within the proposed project area. We request a Phase I survey be performed with subsurface testing or evidence showing the area of prior disturbance.

In the event a concentration of artifacts and/or in the unlikely event any human remains are accidentally unearthed during the project that all work is halted until the Delaware Tribe of Indians is informed of the inadvertent discovery and a qualified archaeologist can evaluate the find.

We appreciate your cooperation and look forward to working together on our shared interests in preserving Delaware cultural heritage. If you have any questions, feel free to contact this office by phone at (610) 761-7452 or by e-mail at [temple@delawaretribe.org](mailto:temple@delawaretribe.org).

Sincerely,

A handwritten signature in black ink on a light-colored background. The signature appears to be "Susan Bachor" written in a cursive style.

Susan Bachor  
Delaware Tribe Historic Preservation Representative

**REPORT FOR PHASE 1 ARCHAEOLOGICAL TESTING**

**PLATTE CLOVE CULVERT IMPROVEMENTS PROJECT  
TOWN OF SAUGERTIES, ULSTER COUNTY,  
NEW YORK**

**Prepared for:**

***TECTONIC ENGINEERING & SURVEYING CONSULTANTS P. C.***

**August 2018**

**CHRISTINE DAVIS CONSULTANTS, INC.**  
**560 Penn Street, Verona, Pennsylvania 15147**  
**Phone: 412/826-0443 Fax: 412/826-0458**

---

**REPORT FOR PHASE 1 ARCHAEOLOGICAL TESTING**

**PLATTE CLOVE CULVERT IMPROVEMENTS  
TOWN OF SAUGERTIES, ULSTER COUNTY,  
NEW YORK**

**BY:**



**CHRISTINE E. DAVIS  
Principal Investigator**

**For final submission to:**

**Ms. Lori A. Shirley, Director, Bureau of Environmental Review and Assessment  
Governor's Office of Storm Recovery; New York Homes and Community Renewal  
38-40 State Street; Albany, New York 12207**

# I. INTRODUCTION/PROJECT INFORMATION

The proposed undertaking is known as the Platte Clove Culvert Improvements project located in the Town of Saugerties, Ulster County, New York. The Town of Saugerties is proposing to replace two inadequately-sized culverts at Platte Clove Road. The area of potential effect (APE) consists of two discontinuous areas bisected by Platte Clove Road. The APE encompasses approximately 974.6 square (sq) meter (m) (10,490 sq feet (ft) or 0.24 acres (ac)). The project is being conducted for the Governor's Office of Storm Recovery (GOSR).

Platte Clove Road is a two-lane Town road that provides access between West Saugerties and Tannersville. An unnamed tributary of Plattekill Creek crosses under Platte Clove Road approximately 0.5 miles northwest of the intersection of Platte Clove Road and Manorville Road. The tributary flows through two stacked twenty-four-inch diameter corrugated metal culverts approximately 22 feet long. The culverts are partially collapsed with the inlets buried, resulting in temporary ponding of water upstream of the Platte Clove Road embankment. The inlet of the lower 24-inch culvert is completely blocked by soils, sediment and debris, which has accumulated at the toe of the road embankment. The inlet of the upper 24-inch culvert is open but deteriorated to the point of being ineffective to convey water properly, causing infiltration of stormwater through the supporting structure.

The Town proposes to replace the two existing 24-inch corrugated metal pipe culverts with a single 60-inch metal pipe. The new culvert will be installed by trenchless directional drilling. The directional drilling process will involve the drilling of an initial pilot hole. The new culvert will be installed close to the north side of the existing culverts. A precast concrete headwall, or equivalent, will be constructed on the inlet side of the replacement culvert and a trash rack installed. New riprap will be placed at both the inlet and outlet of the new culvert. The old culverts will be filled and left in place. Disturbed stream areas will be regraded and restored with a vegetative cover on the streambanks. There will be no excavation of the existing road.

In a letter dated December 14, 2016, the Delaware Tribe Historic Preservation Representative (Delaware) requested that a Phase I Survey be performed with subsurface testing or evidence showing the area of prior disturbance. In a subsequent email dated August 3, 2018, the Delaware further requested that archaeological testing be conducted due to the presence of significant cultural materials that were found just downstream from the project area (Appendix I).

## **II. METHODOLOGY**

Field work will begin with a ground surface inspection of the APE for the purpose of defining any surface evidence of archaeological sites and to note any impact to the archaeological integrity of the APE.

In potentially undisturbed areas of less than 15 percent slopes where ground surface visibility is not adequate for surface collection, the hand excavation of .5 by .5 m shovel test probes (STPs) will be conducted at 15 m intervals. Once sterile subsoil is reached, a minimum of an additional 10 centimeters (cm) of subsoil will be excavated to confirm the natural stratigraphy of the horizon.

All subsurface tests will be numbered sequentially, and soil profiles will be cleaned and documented by a pedological description. All hand excavated soils were screened through quarter-in hardware mesh and returned to original ground surface condition.

## **III. RESULTS**

On August 15, 2018, surface inspection and subsurface archaeological testing were conducted for the Platte Clove Culvert Improvements project. The project area is topographically situated on a steep ravine characterized by deciduous woodlands. The majority of the APE contains an unnamed tributary of Plattekill Creek that forms a narrow stream channel at the bottom of the ravine extending to the wall of the bank on both sides. The APE has been disturbed by the existing road right-of-way (ROW).

A total of three STPs were hand-excavated in potentially undisturbed areas on less than 15 percent slope within the APE, including two STPs on the east side of Platte Clove Road and one STP on the west side (Figures 1 and 2; Photos 1 to 8). All three STPs were negative for culturally modified material; therefore, no further testing was completed.

Soil profiles on the east side of Platte Clove Road near the stream consisted of 49 cm of light brown gravelly silt loam over bedrock. Profiles west of the road consisted of 15 cm of dark brown gravelly silt loam over 13 cm of light brown gravelly silt loam over bedrock.

## **IV. CONCLUSIONS**

During the Phase I subsurface archaeological testing of the Platte Clove Culvert Improvements project, there were no discoveries of human remains, funerary objects, sacred objects, or objects of cultural patrimony; therefore, no further archaeological survey is recommended.



# LIMIT OF DISTURBANCE

WET

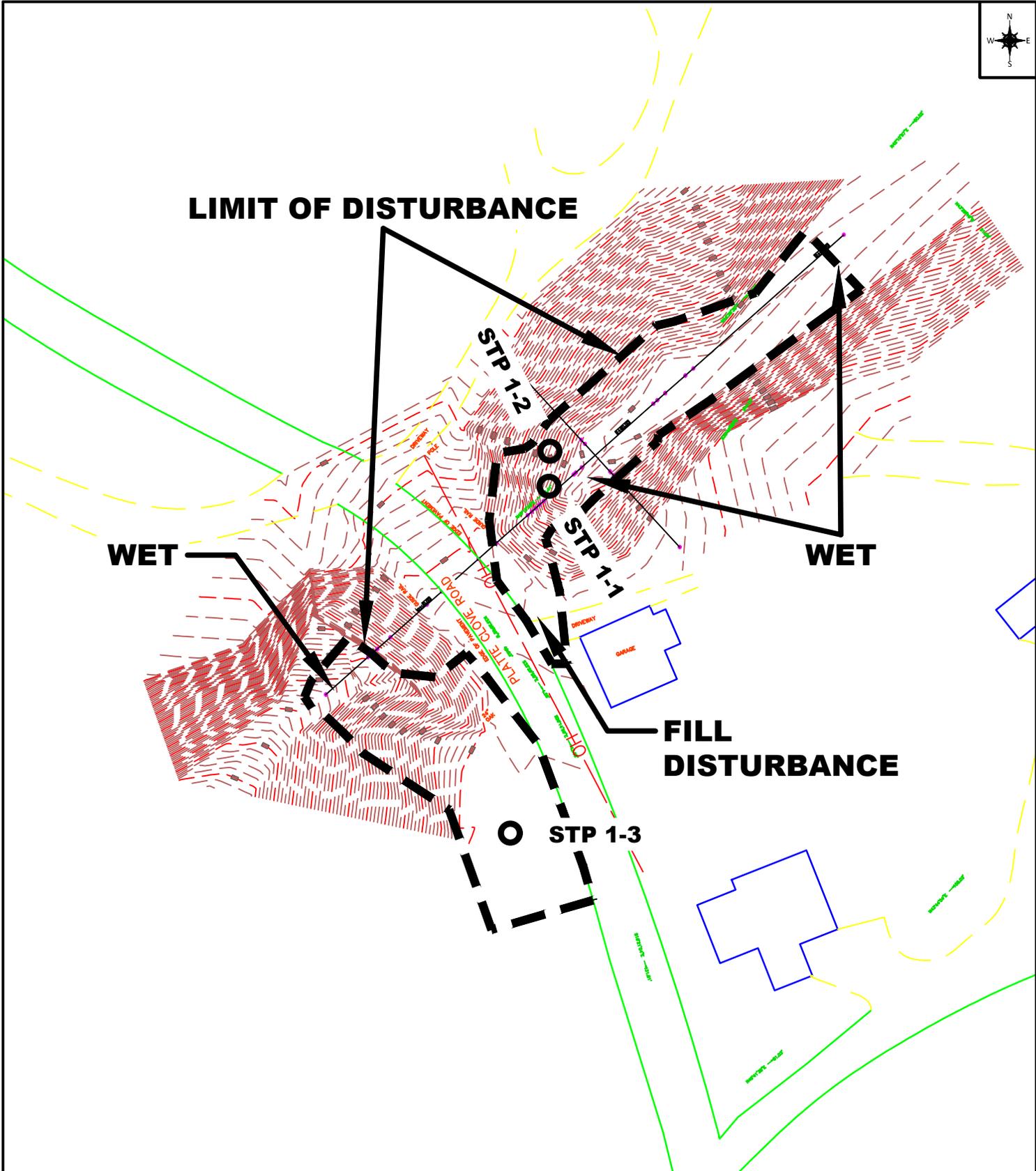
WET

FILL DISTURBANCE

STP 1-2

STP 1-1

STP 1-3

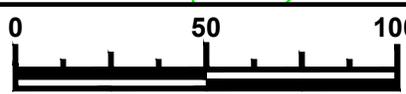



**Christine Davis Consultants**  
Archaeology and History  
Cider Mill of Pittsburgh  
560 Penn Street  
Verona, PA 15147  
www.ChristineDavisConsultants.com  
412-826-0443

**LEGEND**

- ■ APE
- NEGATIVE STP 15M

0 50 100



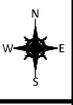
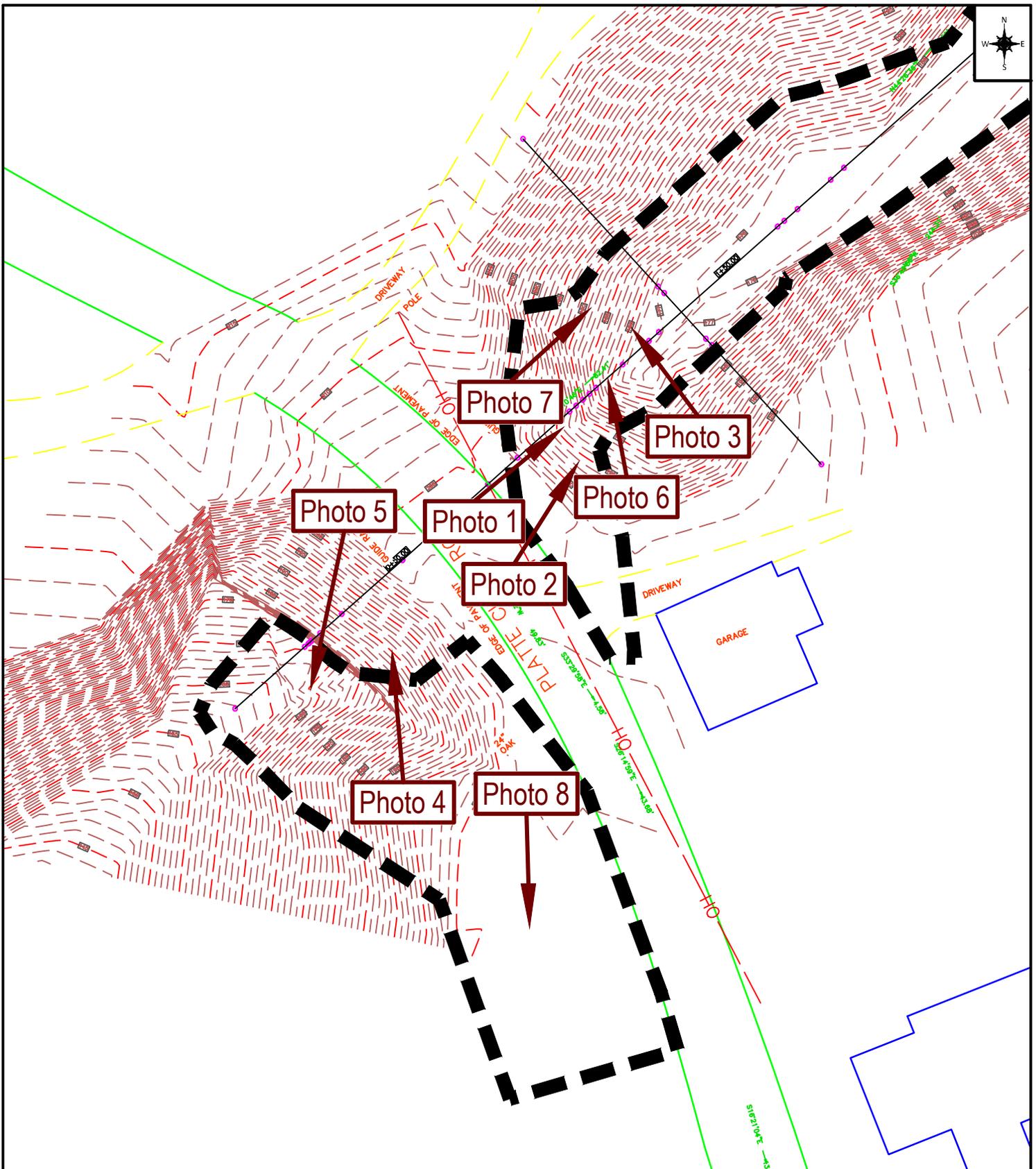
1 INCH = 50 FEET

Phase I Testing  
PLATTE CLOVE CULVERT IMPROVEMENTS PROJECT  
Town of Saugerties, Ulster County, Pennsylvania

REFERENCES:  
HGA, LLC  
8-10-18 PLATTE CLOVE  
CULVERT - Copy.dwg

PROJECT NO.  
**18-037**

**FIGURE 1**



**Christine Davis Consultants**  
 Archaeology and History  
 Cider Mill of Pittsburgh  
 560 Penn Street  
 Verona, PA 15147  
 www.ChristineDavisConsultants.com  
 412-826-0443

**LEGEND**

■ ■ ■ APE

0 30 60

1 INCH = 30 FEET

**Photo Direction Key**  
**PLATTE CLOVE CULVERT IMPROVEMENTS PROJECT**  
 Town of Saugerties, Ulster County, Pennsylvania

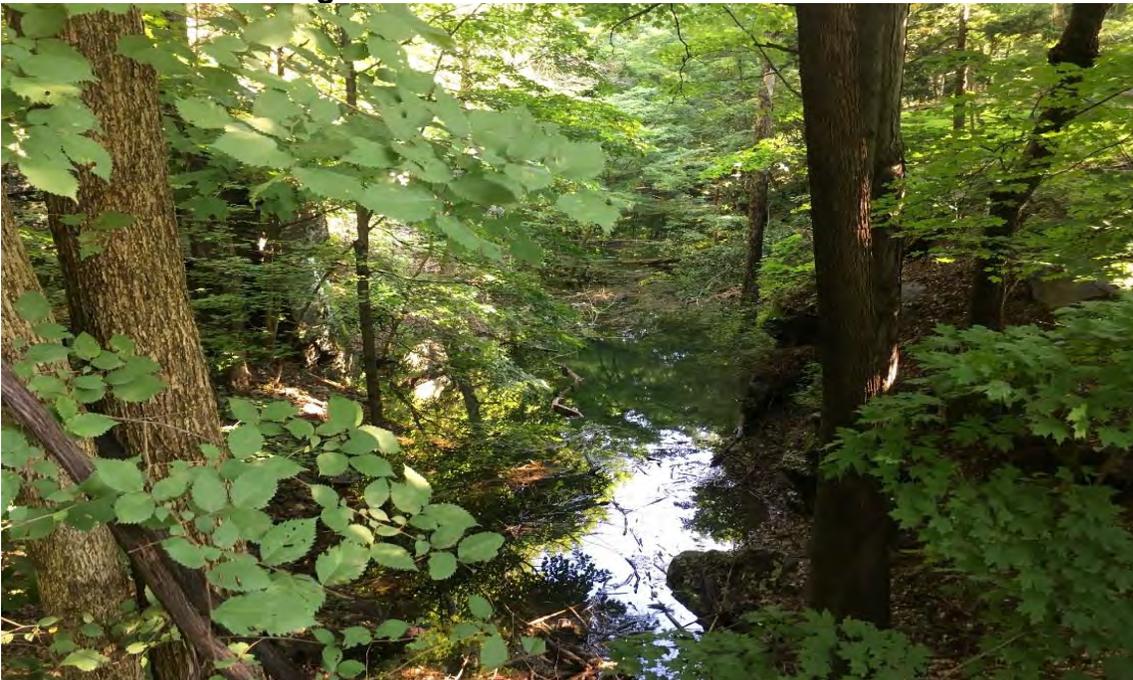
REFERENCES:  
 HGA, LLC  
 8-10-18 PLATTE CLOVE  
 CULVERT - Copy.dwg

PROJECT NO.  
**18-037**

**FIGURE 2**



**Photo 1: General view of the eastern portion of the APE, looking northeast from Platte Clove Road indicating the ravine**



**Photo 2: General view of the eastern portion of the APE, looking northeast from Platte Clove Road indicating unnamed tributary of Plattekill Creek**



**Photo 3: General view of the eastern portion of the APE, looking north from the southern bank**



**Photo 4: General view of the western portion of the APE, looking north to Platte Clove Road**



**Photo 5: General view of the western portion of the APE, looking south from Platte Clove Road**



**Photo 6: General location of STP 1-1, looking north**



**Photo 7: General location of STP 1-2, looking north**



**Photo 8: General location of STP 1-3, looking south**

**APPENDIX I**  
**PROJECT CORRESPONDENCE**



Delaware Tribe Historic Preservation Representatives  
P.O. Box 64  
Pocono Lake, PA 18347  
[temple@delawaretribe.org](mailto:temple@delawaretribe.org)

December 14, 2016

Governor's Office of Storm Recovery  
Bureau of Environmental Review and Assessment  
Att: Lori Shirley  
25 Beaver St.  
New York, NY 10004

**Re: Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York**

Ms. Shirley,

Thank you for sending the Delaware Tribe additional information regarding the above referenced project. Our review indicates that there could be culturally significant areas within the proposed project area. We request a Phase I survey be performed with subsurface testing or evidence showing the area of prior disturbance.

In the event a concentration of artifacts and/or in the unlikely event any human remains are accidentally unearthed during the project that all work is halted until the Delaware Tribe of Indians is informed of the inadvertent discovery and a qualified archaeologist can evaluate the find.

We appreciate your cooperation and look forward to working together on our shared interests in preserving Delaware cultural heritage. If you have any questions, feel free to contact this office by phone at (610) 761-7452 or by e-mail at [temple@delawaretribe.org](mailto:temple@delawaretribe.org).

Sincerely,

Susan Bachor  
Delaware Tribe Historic Preservation Representative

## Shirley, Lori (NYSHCR)

---

**From:** Eastern Historic Preservation <temple@delawaretribe.org>  
**Sent:** Friday, August 24, 2018 10:01 AM  
**To:** Shirley, Lori (NYSHCR)  
**Subject:** Re: Platte Cove

*ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.*

Hi, Lori.

Yes, I did review and the project is clear for construction. Thank you for your cooperation and shared concern.

Susan Bachor, M.A.

Archaeologist

Delaware Tribe Historic Preservation

P.O. Box 64

Pocono Lake, PA 18347

sbachor@delawaretribe.org

This electronic message contains information from the Delaware Tribe of Indians that may be confidential, privileged or proprietary in nature. The information is intended solely for the specific use of the individual or entity to which this is addressed. If you are not the intended recipient of this message, you are notified that any use, distribution, copying, or disclosure of this communication is strictly prohibited. If you received this message in error, please notify the sender then delete this message.

**From:** "Shirley, Lori (NYSHCR)" <Lori.Shirley@nyshcr.org>  
**To:** Eastern Historic Preservation <temple@delawaretribe.org>  
**Sent:** 8/23/2018 2:08 PM  
**Subject:** FW: Platte Cove

Hi Susan,

I just wanted to follow up with you to see if you've had a chance to look this over yet.

We're hoping to complete the Environmental Assessment and publish the FONSI next Thursday, in order to complete this project before the snow flies this fall. ☺

Thank you!

Lori

---

**From:** Shirley, Lori (NYSHCR)  
**Sent:** Wednesday, August 22, 2018 9:59 AM  
**To:** Eastern Historic Preservation <temple@delawaretribe.org>  
**Cc:** Herter, Nancy (PARKS) <Nancy.Herter@parks.ny.gov>; Lloyd, Timothy (PARKS) <Timothy.Lloyd@parks.ny.gov>; Jarman, Clifford (Clifford.Jarman@tetrattech.com) <Clifford.Jarman@tetrattech.com>; Blankenship, Bill (wblankenship@hga-llc.com) (wblankenship@hga-llc.com) <wblankenship@hga-llc.com>; Mierisch, Kristofer <KMierisch@tectonicengineering.com>  
**Subject:** FW: Platte Cove

Good morning, Susan,

Attached is the Phase 1 Survey Report for the Platte Clove Culvert project in Saugerties, New York. No cultural materials were discovered.

I should add that the area where drilling will occur and the culvert will be placed is a manmade earthwork across the ravine built to support the road. According to the Town Historian, the existing culvert system was built by the CCC in the 1930s.

Thank you, and please let me know if you have any questions.

Lori

Lori Shirley

Director, Bureau of Environmental Review and Assessment

Government Operations & Recovery

New York State Homeless Coalition

38-40 State Street, Albany, NY 12207

Office: (518) 474-0755 | Cell: (917) 446-2281 | [Lori.Shirley@nyshcr.org](mailto:Lori.Shirley@nyshcr.org)

[www.stormrecovery.ny.gov](http://www.stormrecovery.ny.gov)

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**From:** Mierisch, Kristofer [<mailto:KMierisch@tectonicengineering.com>]

**Sent:** Tuesday, August 21, 2018 5:47 PM

**To:** Shirley, Lori (NYSHCR) <[Lori.Shirley@nyshcr.org](mailto:Lori.Shirley@nyshcr.org)>

**Subject:** RE: Platte Cove

*ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.*

Hi Lori,

Attached please find the report for Phase 1 archaeological testing for the Platte Cove Culvert Improvements Project.

The Area of Potential Effect was not very testable, as you know it was mostly slope, rock and fill. But we did what we could to ensure that there were no cultural materials endangered by the project. This involved a thorough visual inspection as well as shovel testing where conditions allowed.

No cultural materials were noted, and we are recommending no further work.

Please let me know if you have any questions or concerns.

Thanks again!

Kristofer Mierisch RPA

Sr. Environmental Analyst/CRM Specialist

T 845.534.5959 C 845.275.7028 F 845.534.5999

[kmierisch@tectonicengineering.com](mailto:kmierisch@tectonicengineering.com)



ANDREW M. CUOMO  
Governor

LISA BOVA-HIATT  
Executive Director

December 9, 2016

Shannon Holsey, President  
Stockbridge-Munsee Community, Band of the Mohicans  
N8476 Moh He Con Nuck Road  
Bowler, WI 54416

Re: Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Dear President Shannon Holsey:

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), the Governor's Office of Storm Recovery (GOSR) is acting under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery (“CDBG-DR”) funds from the United States Department of Housing and Urban Development (“HUD”). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Community to respond with any concerns or comments.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by case basis. GOSR proposes to provide funding for the construction of a new culvert>>>. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 302706(b)), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action. This consultation is being sent to the Delaware Nation, Delaware Tribe of Indians, Mohawk Nation, Saint Regis Mohawk Tribe, and the Stockbridge-Munsee Community Band of Mohicans.

Area of Potential Effect: This culvert is located on Platte Clove Road near the intersection with Platte Clove Terrace in the Town of Saugerties, Ulster County, New York. Please the attached maps for exact project location.

Project Description: The proposed project includes scope that will utilize trenchless directional drilling. Pending verification through H&H studies, it is anticipated that the two existing 24” corrugated metal pipe culverts will be replaced with a single 60” metal pipe. This will allow for the project to avoid conventional open-cut excavation, closure of the road for an extended period, and significant disturbance of the streambed, which would make implementation unfeasible and not cost-effective.

GOSR is completing an environmental review for this project pursuant to HUD NEPA regulations. GOSR has initiated consultation with SHPO and no comments have been received to date. If the Area of Potential Effect encompasses historic properties of religious or cultural significance to your Community, please respond within 30 days or sooner. Additionally, please indicate if there are other sources of



**Governor's Office of  
Storm Recovery**

**ANDREW M. CUOMO**  
Governor

**LISA BOVA-HIATT**  
Executive Director

information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

Ms. Lori Shirley  
Deputy Director, Bureau of Environmental Services  
New York State Homes & Community Renewal  
38-40 State St., 408N, Hampton Plaza  
Albany, NY 12207

If you have any questions or require additional information regarding this request, please feel free to contact me at (518) 474-0755 or via email at [lori.shirley@nyshcr.org](mailto:lori.shirley@nyshcr.org). Thank you for your time and consideration.

Sincerely,

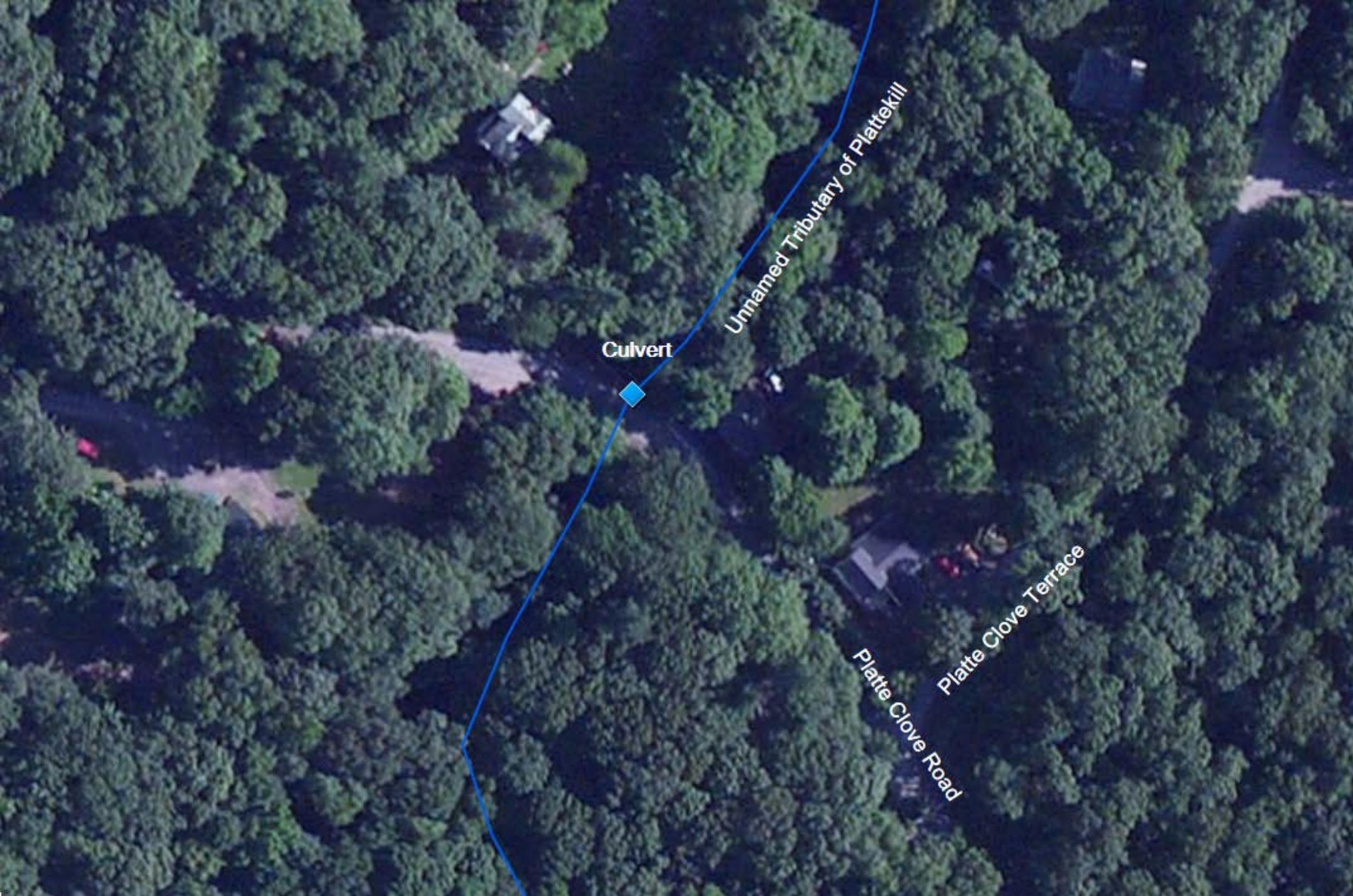
Lori A. Shirley  
Deputy Director  
Bureau of Environmental Review and Assessment  
Governor's Office of Storm Recovery

Enclosures:

Figure 1: Project Location

**Electronic letter sent to:**

Bonney Hartley  
THPO, New York Office  
Stockbridge-Munsee Community, Band of the Mohicans  
65 1st Street  
Troy, NY 12180

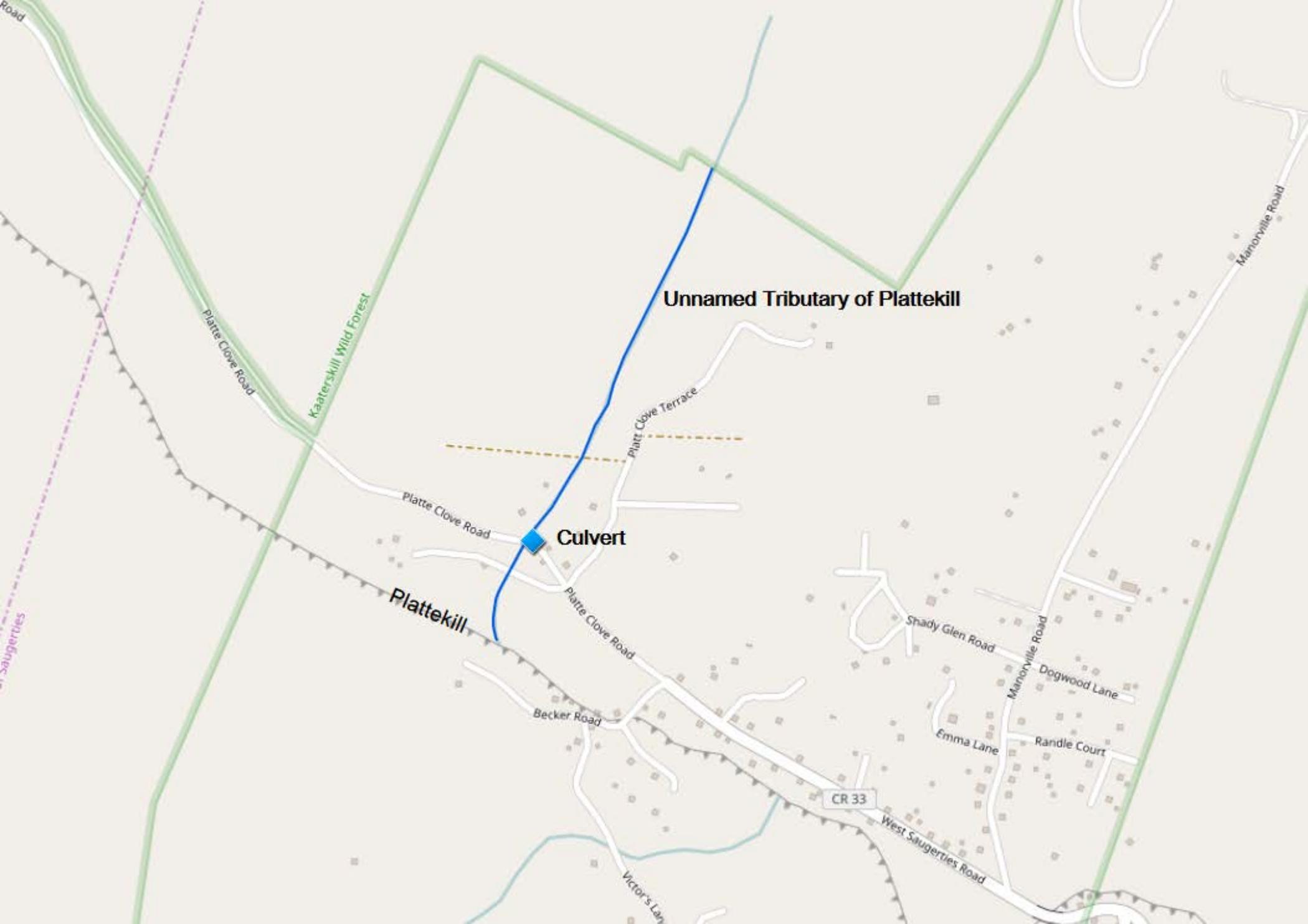


Culvert

Unnamed Tributary of Plattekill

Platte Clove Road

Platte Clove Terrace



Unnamed Tributary of Plattekill

Culvert

Plattekill

Kaaterskill Wild Forest

Platte Clove Road

Platte Clove Terrace

Platte Clove Road

Platte Clove Road

Becker Road

CR 33

West Saugerties Road

Victor's Lane

Shady Glen Road

Manorville Road

Dogwood Lane

Emma Lane

Randle Court

Manorville Road

**From:** [Bonney Hartley](#)  
**To:** [Barthelme, Mary \(STORMRECOVERY\)](#)  
**Subject:** RE: Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York  
**Date:** Thursday, December 29, 2016 12:25:11 PM

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*ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.*

Dear Mary:

I have completed review of the Platte Clove Culvert project. On behalf of Stockbridge-Munsee Community, we do not know of cultural sites in this location and do not have significant cultural resource concerns with the project as planned. If the project plans significantly change and trenchless directional drilling is no longer the method, please let me know.

Also, as always, should any cultural materials be discovered during construction we request that the work is stopped and that we receive immediate notice.

Best,  
Bonney

*Bonney Hartley*  
Tribal Historic Preservation Officer  
Stockbridge-Munsee Mohican Tribal Historic Preservation  
New York Office  
65 1st Street  
Troy, NY 12180  
(518) 244-3164  
[Bonney.Hartley@mohican-nsn.gov](mailto:Bonney.Hartley@mohican-nsn.gov)  
[www.mohican-nsn.gov](http://www.mohican-nsn.gov)

---

**From:** Barthelme, Mary (STORMRECOVERY) [mailto:Mary.Barthelme@stormrecovery.ny.gov]  
**Sent:** Friday, December 09, 2016 4:47 PM  
**To:** Bonney Hartley  
**Cc:** Shirley, Lori (NYSHCR)  
**Subject:** Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Dear Bonney,

Please see the attached consultation for the above-mentioned project.

A hard copy is being sent today by mail. Please let me know if you have any questions.

Thank you,

Mary Barthelme

**Mary Barthelme**

Environmental and Historic Preservation Specialist

**Governor's Office of Storm Recovery**

99 Washington Avenue, Suite 1224, Albany NY 12260

O: [\(518\) 473-0154](tel:(518)473-0154) | C: [\(646\) 706-6748](tel:(646)706-6748) | F: [\(518\) 474-6102](tel:(518)474-6102) |

[Mary.Barthelme@stormrecovery.ny.gov](mailto:Mary.Barthelme@stormrecovery.ny.gov)

[www.stormrecovery.ny.gov](http://www.stormrecovery.ny.gov)

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December 9, 2016

Mohawk Nation Council of Chiefs  
Of Haudenosaunee Six Nations Confederacy  
Akwesasne Territory Box 336  
Via Rooseveltown, NY 13683-0366

Re: Section 106 Compliance for Platte Clove Culvert Improvements Project, Town of Saugerties, Ulster County, New York

Dear Mohawk Nation Council of Chiefs:

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), the Governor's Office of Storm Recovery (GOSR) is acting under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery (“CDBG-DR”) funds from the United States Department of Housing and Urban Development (“HUD”). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Nation to respond with any concerns or comments.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by case basis. GOSR proposes to provide funding for the construction of a new culvert>>>. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 302706(b)), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action. This consultation is being sent to the Delaware Nation, Delaware Tribe of Indians, Mohawk Nation, Saint Regis Mohawk Tribe, and the Stockbridge-Munsee Community Band of Mohicans.

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Project Description: The proposed project includes scope that will utilize trenchless directional drilling. Pending verification through H&H studies, it is anticipated that the two existing 24” corrugated metal pipe culverts will be replaced with a single 60” metal pipe. This will allow for the project to avoid conventional open-cut excavation, closure of the road for an extended period, and significant disturbance of the streambed, which would make implementation unfeasible and not cost-effective.

GOSR is completing an environmental review for this project pursuant to HUD NEPA regulations. GOSR has initiated consultation with SHPO and no comments have been received to date. If the Area of Potential Effect encompasses historic properties of religious or cultural significance to your Nation, please respond within 30 days or sooner. Additionally, please indicate if there are other sources of



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**ANDREW M. CUOMO**  
Governor

**LISA BOVA-HIATT**  
Executive Director

information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

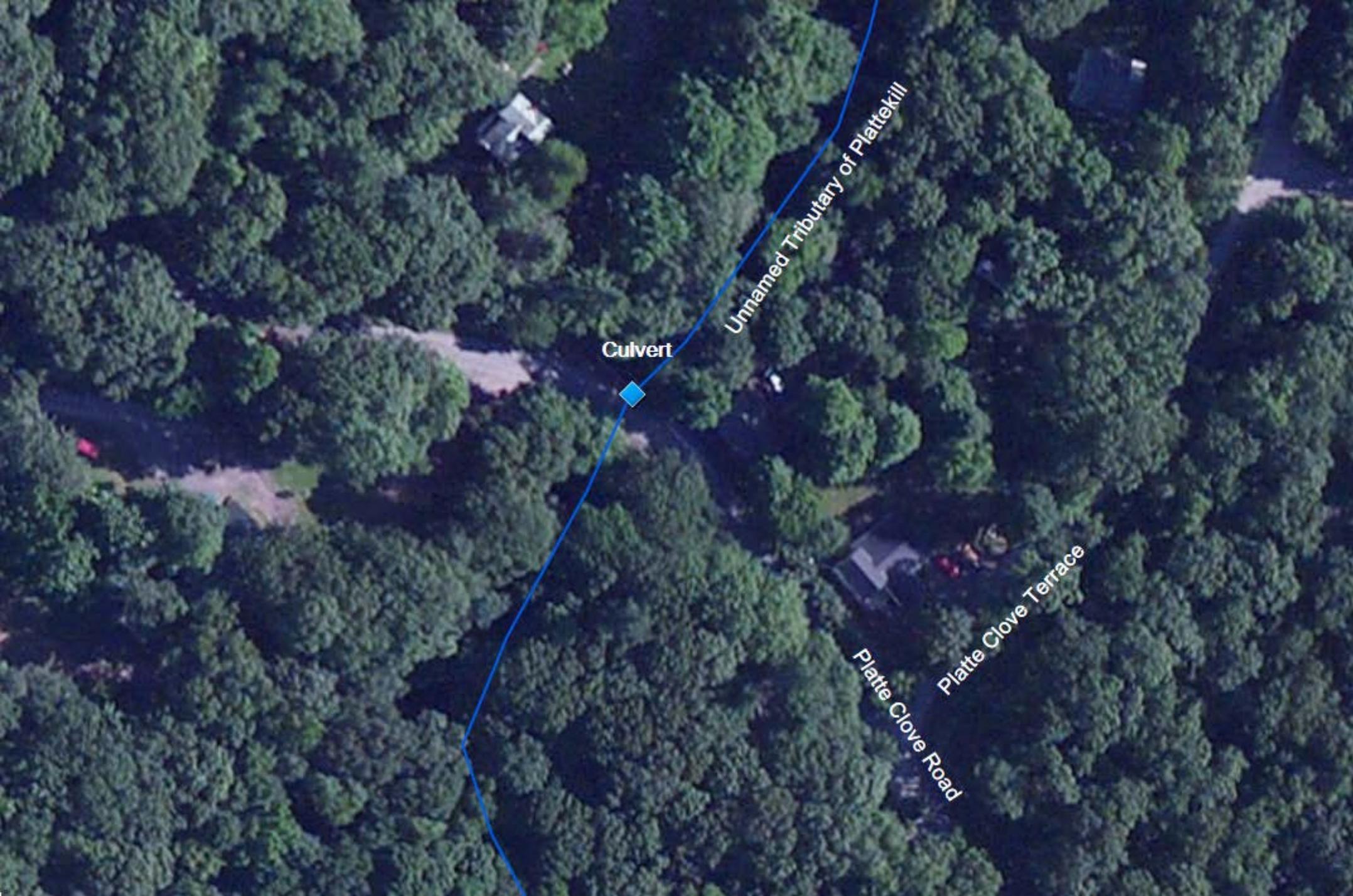
Ms. Lori Shirley  
Deputy Director, Bureau of Environmental Services  
New York State Homes & Community Renewal  
38-40 State St., 408N, Hampton Plaza  
Albany, NY 12207

If you have any questions or require additional information regarding this request, please feel free to contact me at (518) 474-0755 or via email at [lori.shirley@nyshcr.org](mailto:lori.shirley@nyshcr.org). Thank you for your time and consideration.

Sincerely,

Lori A. Shirley  
Deputy Director  
Bureau of Environmental Review and Assessment  
Governor's Office of Storm Recovery

Enclosures:  
Figure 1: Project Location

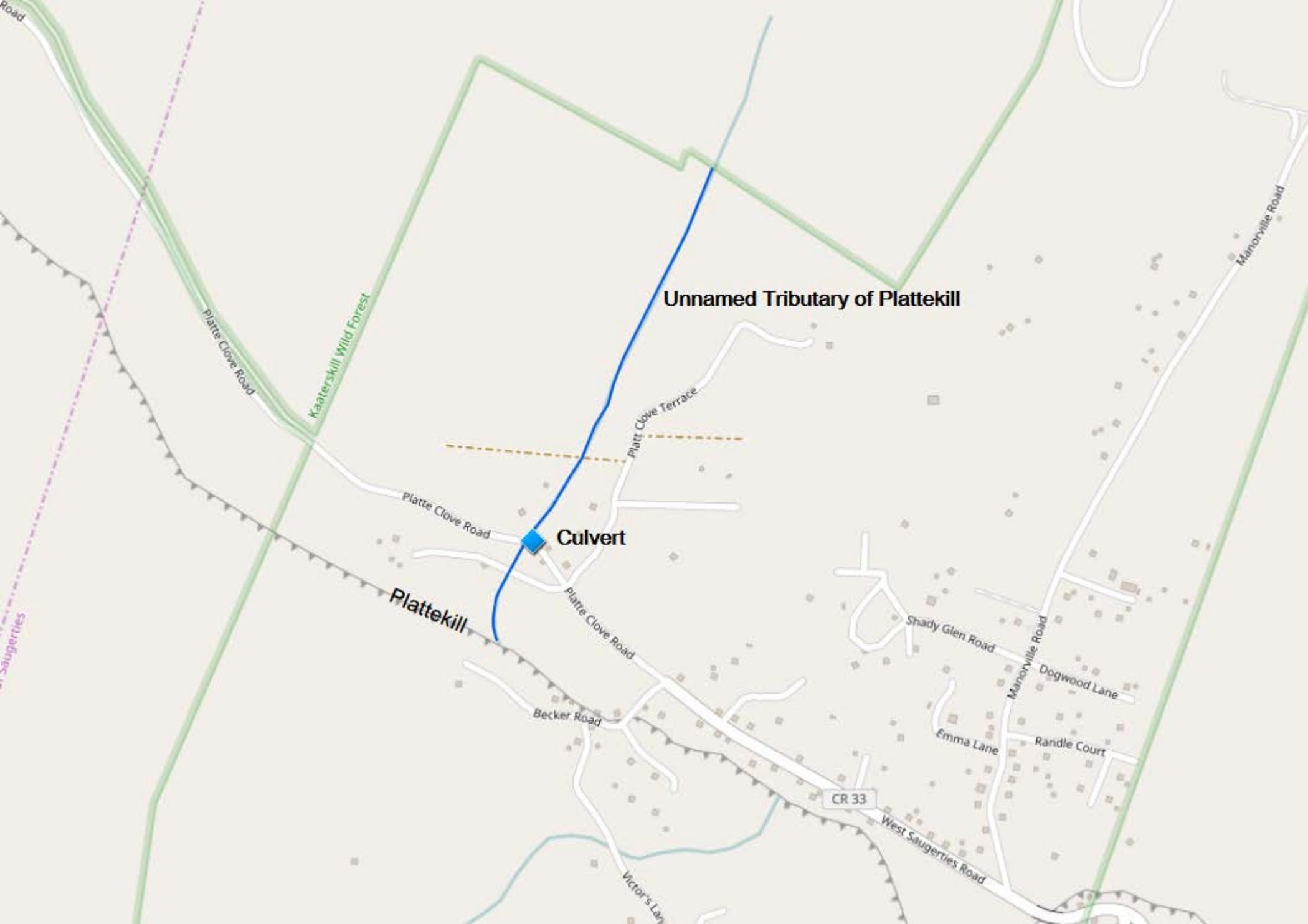


Culvert

Unnamed Tributary of Plattekill

Platte Clove Road

Platte Clove Terrace



Unnamed Tributary of Plattekill

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Plattekill

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Victor's Lane

Manorville Road

**APPENDIX F  
WETLANDS**

C:\Projects\Platte Clove Culvert Improvements HUD EA - 103P3592XX\GIS\Platte Clove Culvert Improvements - Freshwater Wetlands.mxd



**Legend**

-  Unnamed Tributary of Platte Kill
-  Project Area
-  NYS Freshwater Wetlands
-  NYS Freshwater Wetlands Buffer
- NWI Wetlands**
-  Riverine

**Freshwater Wetlands**

Platte Clove Culvert Improvements  
Platte Clove Road  
Town of Saugerties  
Ulster County, New York



Tetra Tech, Inc



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**GENERAL PERMIT GP-3-18-001**  
**Region 3 Municipal & County General Permit**

**Permittee and Facility Information**

**Permit Issued To:**

Town of Saugerties  
Town Hall  
4 High Street  
Saugerties, NY 12477

**Facility:**

Platte Clove Culvert  
~565 West Saugerties Road  
Town of Saugerties  
Permit ID 3-5/48-447/1

**Applicable DEC Region(s):** 3

**General Permit Authorized Activity:** This General Permit authorizes municipalities (Towns, Villages and Cities) and counties located in New York State within Region 3 of the New York State Department of Environmental Conservation to conduct the following activities:

1. Bank and channel stabilization activities for transportation related construction activities.  
Authorized activities include:
  - a. Repair, restoration and maintenance of highway embankments and shoulders adjacent to waterways and lakes with riprap, stone fill, timber cribbing, retaining walls, stacked rock, head walls or other appropriate stabilization technique.
  - b. Such work may include the stabilization of up to 200 linear feet of eroded stream banks where the bank is actively eroding and threatening the integrity of the public infrastructure and public safety.
  - c. The total length must be measured cumulatively when a project has several individual areas in a single wetland or stream bank.
  
2. Culvert and Bridge replacement and rehabilitation.  
Authorized activities include:
  - a. Replacement of bridges on the same site.
  - b. Replacement of culverts with new structures on the same site, excluding multiple culverts.
  - c. Rehabilitation of bridge elements (deck, sidewalk, girders, piers, footings, abutments, wingwalls).
  - d. Rehabilitation of culverts (not including slip lining).
  - e. Construction of temporary shoring piling, piers, pads, braces, and form work.
  - f. Removal of abandoned bridges.



- 3. Rehabilitation and repair of existing transportation facilities in similar configuration, alignment and dimension, excluding culvert and bridge replacement/rehabilitation.  
Authorized activities include:
  - a. Highway and shoulder work including pavement and guiderails, traffic signs and signals;
  - b. Drainage swales and equalization culverts not carrying streams, including end sections, aprons, fencing and headwalls;
- 4. Survey and Exploratory activities for roadway related construction activities.  
Authorized activities include:
  - a. Drilling of test wells or bore holes, excavation of test pits, core sampling, soil sampling and other similar exploratory type activities associated with a public infrastructure project;
  - b. Temporary equipment access for structural inspections;
  - c. Installation of staff gauges.
- 5. Debris and Gravel Removal.  
Authorized activities include:
  - a. Cutting and removal of fallen trees and other debris which obstruct normal water flow;
  - b. Removal of up to 100 linear feet of gravel accumulations associated with an existing structure.

**Permit Authorizations**

**Freshwater Wetlands - Under Article 24**  
Effective Date: 02/08/2018 Expiration Date: 02/07/2023

**Stream Disturbance - Under Article 15, Title 5**  
Effective Date: 02/08/2018 Expiration Date: 02/07/2023

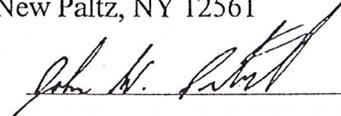
**Excavation & Fill in Navigable Waters - Under Article 15, Title 5**  
Effective Date: 02/08/2018 Expiration Date: 02/07/2023

**Water Quality Certification - Under Section 401 - Clean Water Act**  
Effective Date: 02/08/2018 Expiration Date: 02/07/2023

**NYSDEC Approval**

**By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.**

**General Permit Authorized by**  
Permit Administrator: JOHN W PETRONELLA , Regional Permit Administrator  
Address: NYSDEC Region 3 Headquarters  
21 S Putt Corners Rd  
New Paltz, NY 12561

Authorized Signature:  Date: 02/08/2018



This permit is not effective without the signature below:

Validation under this General Permit

Authorized By: **BRIAN DRUMM**  
Biologist, Bureau of Habitat

Region 3, 21 South Putt Corners Road, New Paltz, NY 12561  
P: (845) 256-3091 | F: (845) 255-4659  
brian.drumm@dec.ny.gov  
www.dec.ny.gov

Authorized Signature: *Brian Drumm*

Date 8/10/2018

**Permit Components**

- NATURAL RESOURCE PERMIT CONDITIONS *All work as shown on plans "Platte Clove Road Culvert + Replacement" by Brinnier and Larios dated May 2017*
- WATER QUALITY CERTIFICATION SPECIFIC CONDITION *60% Design for Agency Review*
- GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS
- NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

**NATURAL RESOURCE PERMIT CONDITIONS - Apply to the Following Permits: WATER QUALITY CERTIFICATION; EXCAVATION & FILL IN NAVIGABLE WATERS; STREAM DISTURBANCE; FRESHWATER WETLANDS**

**1. Request For Authorization** Prior to the use of this General Permit for a project, the Applicant must submit a Joint Application Form with the required attachments to the Regional Permit Administrator. Upon review of the project, NYSDEC will determine if the project can be authorized under this General Permit. No work is authorized until the Permittee receives the signed General Permit from NYSDEC. NYSDEC may add specific additional requirements or plan notes to the Project Authorization.

NYSDEC retains the right to exclude a proposed activity from authorization under this General Permit, and to require the Applicant to obtain an individual permit.

**2. Previous County General Permits** This General Permit (GP-3-17-001) shall supercede all existing Region 3 County General Permits and Standard Activity Permits (SAPs).

**3. Conformance With Plans** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans were prepared by the applicant or it's agent.



**4. Bank Stabilization**

- a. The stream bank shall be at an appropriate slope to allow for stabilization, with the toe keyed in below the stream bed as far as possible.
- b. Stabilization of the stream bank must not result in a constriction of the cross-sectional area of the affected stream channel to the current width and depth of the immediate vicinity.
- c. Materials must be stockpiled and installed in such a manner to prevent dispersion or movement by normal highwater level flows
- d. Alterations to channel configuration, streambeds characteristics including slope, average bedload size side slopes of banks must be minimized as much as possible.

**5. Culvert and Bridge Work and Replacement**

- a. Flat bottom culverts shall be installed at least 18 inches below the existing streambed elevation
- b. Bridges and culverts must be installed in manner so that they do not constitute a barrier to upstream movement of fish under normal flow conditions or constrict the stream channel.
- c. Culverts should conform as closely as possible to the existing streambed gradient and profile including width and depth of channel while remaining within the bounds of general guidance from natural resource regulatory agencies or manufacturer specifications.
- d. Replacements of existing culverts and bridges must be within 50 feet of their existing location. The culvert must not require more than 100 feet of flow alignment activities within the wetland or stream and must not alter the existing flow or water table characteristics of the wetland or stream or inhibit the natural movements of resident or migratory aquatic life.
- e. Round culverts shall be buried a minimum of 20% of their diameter so that the widest portion of the culvert is at the general elevation of the streambed.
- f. Bridge abutments must be designed and installed in a manner that does not cause a constriction of the stream channel.

**6. Rehabilitation and Repair of Transportation Facilities**

- a. Temporary construction access, detour roads or associated earth fills in the wetland, wetland adjacent area or stream channel must be completely restored upon completion of the project using native material to the greatest extent.
- b. Drainage culverts in regulated wetlands not carrying streams must be replaced at their existing location and with pipes matching the existing culvert and invert elevations. Repair must not alter hydrology of surrounding area.

**7. Survey and Exploratory Activities for Roadway Related Construction**

- a. All test wells, test pits and bore holes must be backfilled to the fullest extent possible with soil excavated from the well, pit or hole. All excess material must be immediately removed from the wetland and adjacent area and stabilized immediately upon completion of the activity. No drilling muds or fluids shall be released to surface waters. All such muds, fluids and tailings must be disposed of at an appropriate upland location.
- b. The area of wetland disturbance must be limited to the minimum necessary to perform the survey and exploratory activity. Clearing of existing vegetation must be limited to the material which poses an immediate hazard or hindrance to the necessary activity. Temporary fill for access for exploratory purposes is not authorized, all access for this purpose must utilize temporary mats.



**8. Debris and Gravel Removal** This permit authorizes the skimming of accumulated gravel from exposed gravel bar from any single location of no more than 100 feet from a structure. For the purposes of this permit, skimming is defined as the selective removal of gravel from the exposed portion of gravel bar or similar deposit to a uniform depth of one foot higher than the normal low water level.

**9. Cofferdams, Sediment basins and Temporary Water Control Structures** Any temporary cofferdam shall be constructed of materials that will not contribute to turbidity or siltation of the waterbody. Fill materials for cofferdams must not come from the waterbody or wetland unless specifically identified on the plans and authorized. All temporary water control structures shall be removed in their entirety upon completion of maintenance activity.

**10. Erosion Control Devices** Appropriate measures and devices (such as silt fences, straw bales, turbidity curtains, check dams, catchment basins, sediment retention basins, water bars, diversion culverts, and other appropriate measures) shall be employed wherever necessary to prevent erodible soils, including those from banks and spoil piles, from entering the wetland or water body. All erosion control devices must be in place prior to ground disturbance and maintained as long as erosion is possible and until permanent vegetation is established. All devices should be removed no later than one-year after project completion.

**11. No Turbid Discharges** Visibly turbid discharges from land clearing, grading or excavation activities or de-watering operations shall not enter the stream, navigable water or wetland. Such water shall be pumped to settling basins or to an upland vegetated area prior to any discharge to stream or wetland.

**12. Isolate Work Area** Work areas must be isolated from flowing or standing water in a manner that will prevent the contravention of water quality standards that will result in a water quality violation. The definition of a contravention of water quality standards is a visible contrast in water clarity (turbidity) in the case of a stream between upstream and downstream of the work area and in the case of a water body between the vicinity of the work area outside of the isolation and an area a significant distance from the work area. A proposed method of isolation must be shown on the project plans.

**13. Concrete Leachate** During construction, no wet or fresh concrete or leachate shall be allowed to escape into any wetland or water of New York State, nor shall washings from ready-mixed concrete trucks, mixers or other devices be allowed to enter any wetland or waters. Only watertight or waterproof forms shall be used. Wet concrete shall not be poured to displace water within the forms.

**14. Seed/Mulch Streambanks** All areas of soil disturbance resulting from this project shall be seeded with an appropriate perennial grass seed and mulched with hay or straw within one week of final grading. Mulch shall be maintained until a suitable vegetative cover is established. If seeding is impracticable due to the time of year, a temporary mulch shall be applied and final seeding shall be performed at the earliest opportunity when weather conditions favor germination and growth but not more than six months after project completion.

**15. Equipment Operation in Wetlands, Water and Waterbodies** Only equipment necessary for the authorized activity, as indicated on the project plans, including the bucket of excavators, may enter the waterbody or wetland. At no time should machinery be operated in flowing water when it can reasonably be avoided or without adequate control measure in place.



16. **No Interference With Navigation** There shall be no unreasonable interference with navigation by the work herein authorized.

17. **Permit Modification** Should unforeseen circumstances arise during construction that result in either a turbidity issue or that will require a modification to the approved plans the Department must be contacted immediately. All onsite activities shall focus on the elimination of the problem and stabilization of the site until this has been accomplished. Modifications to the approved plans that affect the final approved layout or substantial modifications of the approved process for construction must be approved by the Department prior to the resumption of construction. Minor modification to the technical construction details where the overall final structure remains unchanged may resume once all problems have been resolved.

18. **Precautions Against Contamination of Waters** All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

19. **Failure to Meet Terms or Conditions** Failure of the permittee to meet all the terms or conditions of this general permit may result in an order to immediately cease the permitted activity, conduct remediation and/or civil and/or criminal penalties.

20. **State May Order Removal or Alteration of Work** If future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.

21. **State Not Liable for Damage** The State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

22. **State May Require Site Restoration** If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may lawfully require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.

**WATER QUALITY CERTIFICATION SPECIFIC CONDITIONS**



**1. Water Quality Certification** The authorized project, as conditioned pursuant to the Certificate, complies with Section 301, 302, 303, 306, and 307 of the Federal Water Pollution Control Act, as amended and as implemented by the limitations, standards, and criteria of state statutory and regulatory requirements set forth in 6 NYCRR Section 608.9(a). The authorized project, as conditioned, will also comply with applicable New York State water quality standards, including but not limited to effluent limitations, best usages and thermal discharge criteria, as applicable, as set forth in 6 NYCRR Parts 701, 702, 703, and 704.

**2. Water Quality Certification** The authorized project, as conditioned pursuant to the Certificate, complies with Section 301, 302, 303, 306, and 307 of the Federal Water Pollution Control Act, as amended and as implemented by the limitations, standards, and criteria of state statutory and regulatory requirements set forth in 6 NYCRR Section 608.9(a). The authorized project, as conditioned, will also comply with applicable New York State water quality standards, including but not limited to effluent limitations, best usages and thermal discharge criteria, as applicable, as set forth in 6 NYCRR Parts 701, 702, 703, and 704.

**GENERAL CONDITIONS - Apply to ALL Authorized Permits:**

**1. Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**2. Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.



**3. Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator

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**4. Submission of Renewal Application** The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Freshwater Wetlands, Stream Disturbance, Excavation & Fill in Navigable Waters, Water Quality Certification.

**5. Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

- a. materially false or inaccurate statements in the permit application or supporting papers;
- b. failure by the permittee to comply with any terms or conditions of the permit;
- c. exceeding the scope of the project as described in the permit application;
- d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

**6. Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

<b>NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS</b>
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**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does



not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

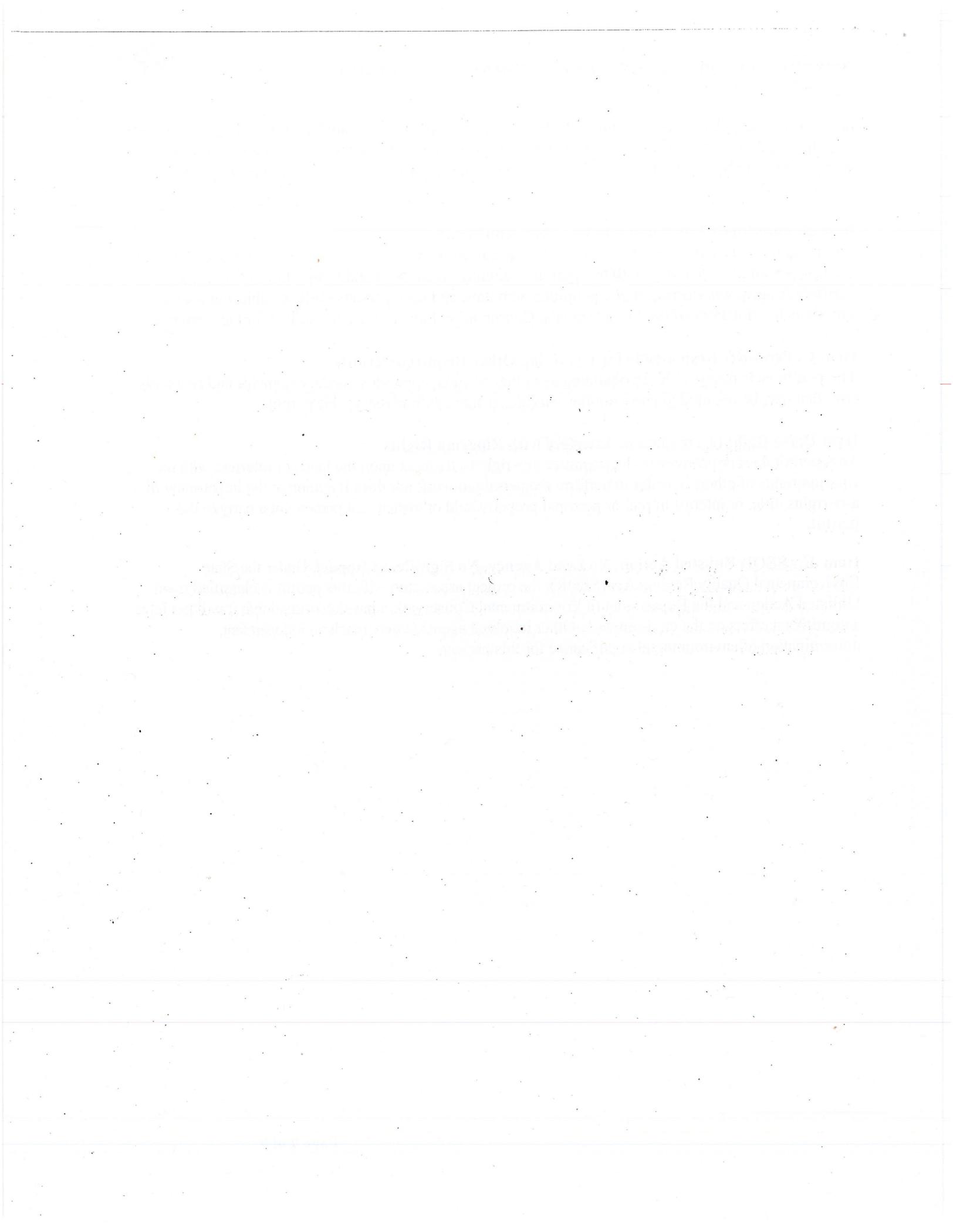
**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

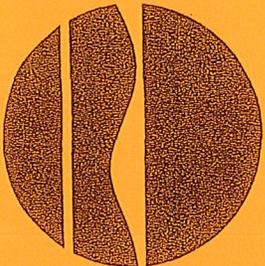
**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

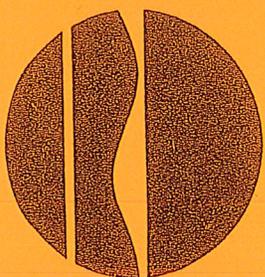
**Item E: SEQR Unlisted Action, No Lead Agency, No Significant Impact** Under the State Environmental Quality Review Act (SEQR), the project associated with this permit is classified as an Unlisted Action and the Department of Environmental Conservation has determined that it will not have a significant effect on the environment. Other involved agencies may reach an independent determination of environmental significance for this project.



New York State  
Department of Environmental Conservation



# NOTICE



The Department of Environmental Conservation (DEC) has issued permit(s) pursuant to the Environmental Conservation Law for work being conducted at this site. For further information regarding the nature and extent of work approved and any Department conditions on it, contact the DEC at 845/256-3054. Please refer to the permit number shown when contacting the DEC.

Permittee: Town of Saugerties Permit No. 3-5148-00447/00001

Effective Date: 8/10/2018 Expiration date: 2/7/2023

Applicable if checked. No instream work allowed between October 1 & April 30

NOTE: This notice is NOT a permit.



JOINT APPLICATION FORM

For Permits for activities affecting streams, waterways, waterbodies, wetlands, coastal areas, sources of water, and endangered and threatened species.

Do not separate application or add attachments. Permit for each proposed activity before starting or. Please read attachments to

**1. Applicant To**

**> NYS Department of Environmental Conservation**  Check here to confirm you sent this form to NYSDEC.

Check all permits that apply:

<input type="checkbox"/> Stream Disturbance	<input type="checkbox"/> Dams and Impoundment Structures	<input type="checkbox"/> Tidal Wetlands	<input type="checkbox"/> Water Withdrawal
<input type="checkbox"/> Excavation and Fill in Navigable Waters	<input type="checkbox"/> 401 Water Quality Certification	<input type="checkbox"/> Wild, Scenic and Recreational Rivers	<input type="checkbox"/> Long Island Well
<input type="checkbox"/> Docks, Moorings or Platforms	<input type="checkbox"/> Freshwater Wetlands	<input type="checkbox"/> Coastal Erosion Management	<input type="checkbox"/> Incidental Take of Endangered / Threatened Species

**> S Army Corp of Engineers**  Check here to confirm you sent this form to USACE.

Check all permits that apply:  Section 404 Clean Water Act  Section 10 Rivers and Harbors Act

Is the project Federally funded?  Yes  No

If yes, name of Federal Agency:

General Permit Type(s), if known:

Preconstruction Notification:  Yes  No

**> NYS Office of General Services**  Check here to confirm you sent this form to NYSOGS.

Check all permits that apply:

<input type="checkbox"/> State Owned Lands Under Water	<input type="checkbox"/> Utility Easement (pipelines, conduits, cables, etc.)	<input type="checkbox"/> Docks, Moorings or Platforms
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**> NYS Department of State**  Check here to confirm you sent this form to NYSDOS.

Check if this applies:  Coastal Consistency Concurrence

**2. Name of Applicant**

Taxpayer ID (if applicant is NOT an individual)

Mailing Address  Post Office / City  State  Zip

Telephone  Email

Applicant Must be (check all that apply):  Owner  Operator  Lessee

**3. Name of Property Owner (different than Applicant)**

Mailing Address  Post Office / City  State  Zip

Telephone  Email

**For Agency Use Only** Agency Application Number:

**4. Name of Contact Agent**

Mailing Address \_\_\_\_\_ Post Office / City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_ Email \_\_\_\_\_

**5. Project Facts Name** \_\_\_\_\_ Property Tax Map Section / Block / Lot Number: \_\_\_\_\_

Project Street Address, if applicable \_\_\_\_\_ Post Office / City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Provide directions and distances to roads, intersections, bridges and bodies of water \_\_\_\_\_

Town  Village  City County \_\_\_\_\_ Stream/Waterbody Name \_\_\_\_\_

Project Location Coordinates: Enter Latitude and Longitude in degrees, minutes, seconds:  
Latitude: \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_" Longitude: \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_"

**6. Project Description** Provide the following information about your project. Continue each response and provide any additional information on other pages. Attach photos on separate page

a. Purpose of the proposed project:  
\_\_\_\_\_

b. Description of current site conditions:  
\_\_\_\_\_

c. Proposed site changes:  
\_\_\_\_\_

d. Type of structures and fill materials to be installed, and quantity of materials to be used (e.g., square feet of coverage, cubic yards of fill material, structures below ordinary/mean high water, etc.):  
\_\_\_\_\_

e. Area of excavation or dredging, volume of material to be removed, location of dredged material placement:  
\_\_\_\_\_

f. Is tree cutting or clearing proposed?  Yes If Yes, explain below.  No  
Timing of the proposed cutting or clearing (month/year): \_\_\_\_\_  
Number of trees to be cut: \_\_\_\_\_ Acreage of trees to be cleared: \_\_\_\_\_

g. Work methods and type of equipment to be used:

h. Describe the planned sequence of activities:

i. Pollution control methods and other actions proposed to mitigate environmental impacts:

j. Erosion and silt control methods that will be used to prevent water quality impacts:

k. Alternatives considered to avoid regulated areas. If no feasible alternatives exist, explain how the project will minimize impacts:

l. Proposed use:  Private  Public  Commercial

m. Proposed Start Date:  Estimated Completion Date:

n. Has work begun on project?  Yes If Yes, explain below.  No

o. Will project occupy Federal, State, or Municipal Land?  Yes If Yes, explain below.  No

p. List any previous DEC, USACE, OGS or DOS Permit / Application numbers for activities at this location:

q. Will this project require additional Federal, State, or Local authorizations, including zoning changes?

Yes If Yes, list below.  No

**7. Signatures.**

Applicant and Owner (If different) must sign the application.  
 Append additional pages of this Signature section if there are multiple Applicants, Owners or Contact/Agents.

I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief.

Permission to Inspect - I hereby consent to Agency inspection of the project site and adjacent property areas. Agency staff may enter the property without notice between 7:00 am and 7:00 pm, Monday - Friday. Inspection may occur without the owner, applicant or agent present. If the property is posted with "keep out" signs or fenced with an unlocked gate, Agency staff may still enter the property. Agency staff may take measurements, analyze site physical characteristics, take soil and vegetation samples, sketch and photograph the site. I understand that failure to give this consent may result in denial of the permit(s) sought by this application.

False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the NYS Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

**Signature of Applicant**

	Date 4/19/18
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Applicant Must be (check all that apply):  Owner  Operator  Lessee

Printed Name Douglas F. Myer	Title Highway Superintendent
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**Signature of Owner (if different than Applicant)**

Signature	Date
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Printed Name	Title
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**Signature of Contact / Agent**

	Date 4/19/18
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Printed Name Joseph E. Mihm, P.E.	Title Sr. Project Engineer, Brinnier and Larios
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**For Agency Use Only**

**DETERMINATION OF NO PERMIT REQUIRED**

Agency Application Number

(Agency Name) has determined that No Permit is required from this Agency for the project described in this application.

**Agency Representative:**

Printed Name <input type="text"/>	Title <input type="text"/>
Signature <input type="text"/>	Date <input type="text"/>

**SUMMARY OF 5-STEP FLOODPLAIN AND WETLANDS ANALYSIS FOR THE  
PLATTE CLOVE IMPROVEMENTS  
TOWN OF SAUGERTIES  
ULSTER COUNTY, NEW YORK**

Governor's Office of Storm Recovery  
U.S. Department of Housing and Urban Development Community Development Block Grant –  
Disaster Recovery

Lori A. Shirley – Certifying Environmental Officer  
August 2018

Below is a summary of the analysis conducted in accordance with 24 CFR Part 55 (Floodplain Management and Protection of Wetlands) and Executive Orders 11988 (Floodplain Management) and 11990 (Protection of Wetlands).

Pursuant to 24 CFR §55.12(a)(4), steps 2, 3, and 7 of the 8-step process for floodplain management and protection of wetlands does not apply to projects involving the improvement of existing nonresidential buildings and structures, in communities that are in the Regular Program of the National Flood Insurance Program (NFIP) and are in good standing, provided that the action does not meet the thresholds for substantial improvement” under §55.2(b)(10) and that the footprint of the structure and paved areas is not significantly increased. The Town of Saugerties is proposing replace two inadequately sized culverts at Platte Clove Road between West Saugerties and Tannersville, Ulster County, NY (**Figures 1 and 2**). The proposed project involves replace the two existing 24-inch corrugated metal pipe culverts with a single 48-inch metal pipe (**Figure 3**). The new culvert will be installed by trenchless directional drilling. The Project will include the construction of a 10-foot-wide temporary access road from Platte Clove Road running north over the existing culverts, turn to the northeast along the north stream bank to point 100 feet upstream of Platt Clove Road (**Figure 4**). A 14-foot by 30-foot flat drill pad area will be excavated in the stream bed on the east side of Platte Clove Road. A precast concrete headwall, or equivalent, will be constructed on the inlet side of the replacement culvert and a trash rack installed. New riprap will be placed at both the inlet and outlet of the new culvert. The stacked stone headwall on the downstream side of the replacement culvert will be repointed as necessary to secure any loose stones. The old culverts will be filled and left in place. Disturbed stream areas will be regraded and restored with a vegetative cover on the streambanks.

**Step 1: Determine if the proposed action is in a 100-year floodplain and wetlands.**

The Project site does not fall within the mapped Special Flood Hazard Area (SFHA) Zone AE (the 100-year floodplain), as shown on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Numbers 36111C0285E, effective on September 25 3, 2009. (See the attached **Figure 5**).

Less than 0.10 acres of the 0.16 acres that be disturbed would be within the streambed. The stream, an unnamed tributary of Plattekill Creek is a National Wetlands Inventory (NWI) wetland area, (riverine, R3UBH) (see the attached **Figure 6**).

This 5-step analysis is provided for this project site as an improvement of existing nonresidential buildings and structures that does not meet the thresholds for “substantial improvement” under §55.2(b)(10) and where the footprint of the structure and paved areas is not significantly increased.

**Step 4: Identify and describe the proposed action’s direct and indirect effects associated with occupying or modifying the floodplain and wetlands.**

The existing pipe culverts under Platte Clove Road will be replaced with a 48-inch diameter steel culvert. The total length of the proposed culvert will be approximately 106 feet. This will allow the stream to flow without restriction, caused by the blockages in the existing undersized culverts. The Project is not within the floodplain.

The Project will disturb less than one acre of the streambed at the Project site. The new culvert at Platt Clove Road would temporarily disturb the freshwater riverine streambed upstream and downstream of the road crossing. The stream channel on either side of Platt Clove Road is classified as a riverine upper perennial unconsolidated bottom cobble-gravel (R3UBH) system. No wetlands have been delineated surrounding the stream.

At the Project location, the unnamed tributary is designated as a class A waterbody by NYSDEC and subject to NYSDEC regulations pursuant to Article 15 (Protection of Water) and subsequent Stream Crossing Guidelines and Best Management Practices. The Project area encompasses a perennial water body with an indirect nexus to Traditionally Navigable Waters of the United States and are jurisdictional and subject to regulation by the USACE under section 404(d) of the Clean Water Act and NYSDEC under Section 401(d) of the Clean Water Act. A joint application to NYSDEC and the US Army Corps of Engineers (USACE) for a permit to undertake activities affecting streams, waterways, water bodies, wetlands, coastal areas and sources of water withdrawal has been submitted for the Project. The Project will abide by all conditions set forth in this permit. Once the culverts have been replaced, the streambed area will be restored.

Best management practices during construction would minimize disturbance of the waterbody by equipment, site runoff, sedimentation, or other construction activities. This would not result in permanent adverse effects on the natural and beneficial values of the waterbody or lives and property. There will be no increase in impervious surfaces that would have a long-term effect the waterbody as a result of the Project.

**Step 5: Identify methods to minimize the potential adverse impacts within a floodplain and wetlands to restore and preserve the natural and beneficial values.**

The short-term impacts during construction would be mitigated by best management practices for debris, dust, and erosion control during construction activities. Best management practices during construction would ensure that disturbance of the waterbody by equipment, site runoff, sedimentation, or other construction activities would be minimized.

Prior to construction, the appropriate permits would be obtained in accordance with NYSDEC stormwater discharge from construction activities regulations and Sections 404 and 401 of the Clean Water Act. A stormwater pollution prevention plan (SWPPP) would be prepared for the Project. It will describe the use of best management practices to control runoff during construction, which would mitigate any temporary effects on this waterbody. No changes in land use or impervious surface would occur as a result of the Project that would affect the

waterbody in the long term. Once the culverts have been replaced, the streambed will be restored. No long-term effects to the function or beneficial values of the streambed are anticipated because of the Project.

**Step 6: Reevaluate the proposed action to determine if it is still practicable given its floodplain and wetland effects.**

Neither the designed improvements nor Project construction would adversely affect the natural and beneficial streambed values or lives and property, particularly with the respect to the beneficial increase in the community's resiliency.

Implementing this project would will allow the stream to flow without restriction, caused by frequent backups of the undersized and blocked culverts. The Project would prevent the types of damage that forced the temporary closure of the road.

As a result, the proposed action is still practicable.



Figure 1. Project Location





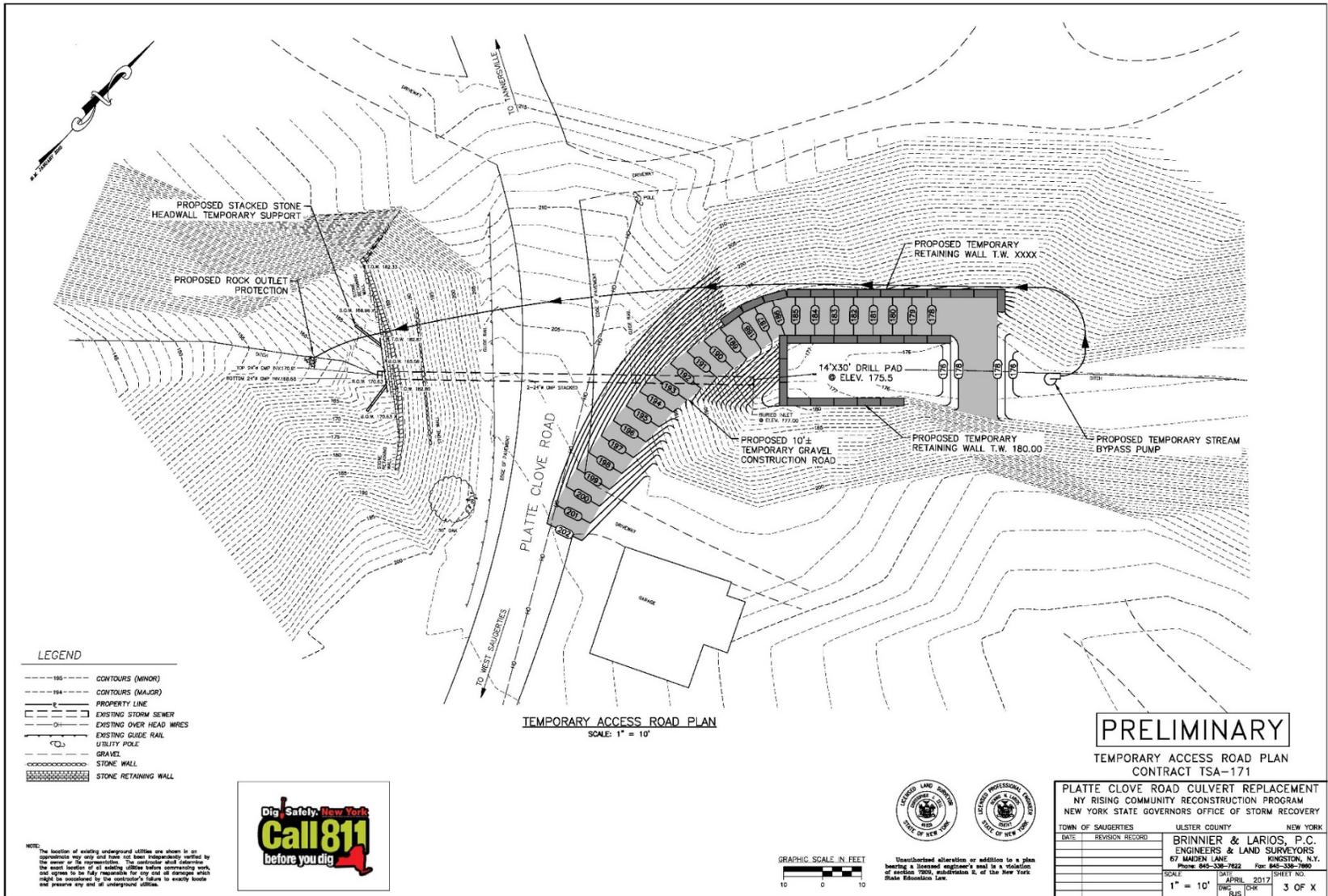


Figure 4. Temporary Access Road Plan





Path: C:\Projects\Platte Clove Culvert Improvements - HUD\_EA\_103p3592XX\GIS\Platte Clove Culvert Improvements - Freshwater Wetlands.mxd

**Legend**

- Unnamed Tributary of Platte Kill
- Project Area
- NYS Freshwater Wetlands
- NYS Freshwater Wetlands Buffer
- NWI Wetlands**
- Riverine

***Freshwater Wetlands***

Platte Clove Culvert Improvements  
 Platte Clove Road  
 Town of Saugerties  
 Ulster County, New York



Figure 6. Wetlands Map