

Appendix C: Historic and Cultural Resources

C-2 Draft Memorandum of Agreement

**MEMORANDUM OF AGREEMENT
AMONG
THE FEDERAL HIGHWAY ADMINISTRATION (FHWA),
ADVISORY COUNCIL ON HISTORIC PRESERVATION (ACHP),
THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT),
THE NEW YORK STATE THRUWAY AUTHORITY (NYSTA),
AND THE
NEW YORK STATE HISTORIC PRESERVATION OFFICER (NYSHPO)
REGARDING THE
TAPPAN ZEE HUDSON RIVER CROSSING PROJECT
IN WESTCHESTER AND ROCKLAND COUNTIES, NEW YORK**

WHEREAS, the Federal Highway Administration (FHWA) proposes to undertake the Tappan Zee Hudson River Crossing Project (hereafter referred to as “the Project”), the purpose of which is to maintain a vital link in the regional and national transportation network by providing a Hudson River crossing between Rockland and Westchester Counties, New York that addresses the structural, operational, safety, security and mobility needs of the Tappan Zee Hudson River Crossing (**Exhibit A – Project Location**);

WHEREAS, in compliance with the National Environmental Policy Act (NEPA, codified as 42 USC 4321 *et seq.*), FHWA is progressing an Environmental Impact Statement (EIS) for this project, in coordination with the New York State Department of Transportation (NYSDOT) and the New York State Thruway Authority (NYSTA), acting as Joint Lead Agencies under NEPA; and

WHEREAS, the Project would require permits and approvals from other Federal agencies, including the United States Army Corps of Engineers (USACE) and the United States Coast Guard (USCG) and FHWA, USACE and USCG have agreed that FHWA is the federal lead agency pursuant to NEPA;

WHEREAS, FHWA is the federal agency responsible for compliance with Section 106 of the National Historic Preservation Act (NHPA, codified at 16 USC 470f, and herein “Section 106”);

WHEREAS, NYSTA and NYSDOT, the project applicants, have been delegated specific tasks by FHWA to assist in meeting Section 106 obligations, and are signatories to this Agreement; and

WHEREAS, FHWA, in coordination with NYSTA and NYSDOT, conducted extensive analysis to study and evaluate alternatives to rehabilitate the existing Tappan Zee Bridge, a structure determined eligible for listing in the National Register of Historic Places in 2003, and concluded that rehabilitation does not meet the Project's goals and objectives; and

WHEREAS, the SHPO has concurred with the finding that rehabilitation of the existing Tappan Zee Bridge is not a viable alternative, and FHWA, in coordination with NYSTA and NYSDOT, determined that only the No Build and Replacement Bridge Alternative would be considered in the EIS; and

WHEREAS, the Replacement Bridge Alternative, consisting of Short Span and Long Span options, would require the removal and demolition of the existing Tappan Zee Bridge; and

WHEREAS, FHWA, in coordination with NYSTA and NYSDOT, and in consultation with the New York State Historic Preservation Officer (NYSHPO) has determined that the Project would adversely affect properties included in or eligible for inclusion in the National Register of Historic Places (“Historic Properties”) and have determined that it is appropriate to enter into this Memorandum of Agreement (“Agreement”) pursuant to 36 CFR 800.6 of Section 106; and

WHEREAS, FHWA invited the Advisory Council on Historic Preservation (“ACHP”) to participate in the Section 106 process for this Project and ACHP has accepted:

WHEREAS, the project is located within the identified area of interest of five federally recognized Indian tribes, and FHWA has consulted with the Delaware Nation, the Delaware Tribe, the Saint Regis

Mohawk Tribe, the Shinnecock Indian Nation and Stockbridge-Munsee Band of Mohican Indians on a government-to-government basis in accordance with 36 CFR Part 800.2(c)(ii), and invited them to sign this Agreement as concurring parties; and

WHEREAS, in keeping with 36 CFR 800.2(c)(3) and (5), FHWA identified representatives of local governments, individuals and organizations with a demonstrated interest in the undertaking, has approved requests to participate in Section 106 consultation for the Project, and invited these Consulting Parties to sign this Agreement as concurring parties (The Section 106 Consulting Parties for the Project are presented in **Exhibit B – Consulting Parties**);

WHEREAS, FHWA in coordination with NYSTA and NYSDOT has provided the Consulting Parties and the public appropriate opportunities to review and comment on Section 106 documents and findings;

WHEREAS, in consultation with NYSHPO, an Area of Potential Effects (APE) has been established for the project as defined by 36 CFR 800.16(d), extending 500 feet from either side of the existing centerline of Interstate 87/287 from Interchange 10 (Route 9W), in Rockland County on the west, to Interchange 9 (Route 9), in Westchester County, on the east; and

WHEREAS, the APE expands to approximately 1.5 miles south of the existing bridge and approximately 1.2 miles north of the existing bridge in both Rockland and Westchester Counties within visual range of the Tappan Zee Bridge to encompass potential indirect effects associated with construction of the replacement bridge, and the . APE for the Project is depicted on the map presented in **Exhibit C– Area of Potential Effect** hereto;

WHEREAS, in accordance with 36 CFR 800.10(a), FHWA in coordination with NYSTA and NYSDOT, has planned and designed the Project to minimize effects on the following National Historic Landmarks (NHL) located within the APE in Westchester County, with the result that the Project will have no adverse effects on these properties: Lyndhurst, Sunnyside, and the Old Croton Aqueduct; and

WHEREAS, the Wayside Chapel at 24 River Road, Grand-View-on Hudson, and the Tarrytown Lighthouse at Kingsland Point Park, Route 9 in Sleepy Hollow, Westchester County, are properties listed in the National Register of Historic Places, and are located within the APE for the Project; and

WHEREAS, FHWA in coordination with NYSDOT and NYSTA, and in consultation with the SHPO, has carried out steps to evaluate previously unevaluated properties within the APE, and identified 19 additional properties determined eligible for the National Register, as depicted in the table and maps presented in **Exhibit D – Historic Properties** hereto, thereby supplementing existing data on Historic Properties in the APE that have been previously listed and /or determined eligible for National Register listing; and

WHEREAS, FHWA, in coordination with NYSDOT and NYSTA, and in consultation with the SHPO, has determined that proposed removal and demolition of the existing Tappan Zee Bridge would constitute an Adverse Effect as defined by 36 CFR 800.5(a)(1); and **WHEREAS**, the Project would require the removal of two properties, 78 Smith Avenue and 21 Cornelison Avenue, contributing resources within the National Register-eligible South Nyack Historic District in the Village of South Nyack in Rockland County; and

WHEREAS, alternatives have been explored to avoid adverse effect on the South Nyack Historic District and these alternatives were determined not feasible and prudent;

WHEREAS, the removal of 78 Smith Avenue and 21 Cornelison Avenue would constitute an adverse effect on the South Nyack Historic District;

WHEREAS, Phase I archaeological survey has been completed for terrestrial portions of the APE and no archaeological resources were identified; and

WHEREAS, archaeological investigations and analysis to assess the sensitivity of the Hudson River portion of the APE have identified an area of potential sensitivity associated with a submerged and deeply buried Paleo landform, and possible historic resources lying on the river bottom, including shipwrecks and historic piers; and

WHEREAS, further investigations and consultation are required to identify any such resources that may be present in the Hudson River, and to evaluate their eligibility for the National Register; and

WHEREAS, if the Paleo landform is identified and determined eligible for inclusion in the National Register of Historic Places, FHWA in coordination with NYSTA and NYSDOT, and in consultation with the SHPO and other consulting parties as appropriate, will consider measures to avoid, minimize or mitigate adverse effects on identified resources; and

WHEREAS, this Agreement was developed with appropriate public participation during the NEPA process pursuant to 36 CFR 800.2(d)(3). A copy of this draft Agreement was included in the Draft Environmental Impact Statement (DEIS), a copy of the revised Agreement will be included in and distributed with the Final Environmental Impact Statement (FEIS), and the public shall be duly notified as to the execution and effective dates of this Agreement through the issuance of the FEIS and FHWA Record of Decision (ROD) for the Project.

NOW, THEREFORE, the FHWA, ACHP, NYSHPO, NYSTA, and NYSDOT agree that the Project shall be implemented in accordance with the following stipulations to take into account the effects of the Project on historic properties.

STIPULATIONS

NYSTA and NYSDOT, in coordination with FHWA, shall ensure that the following stipulations are implemented.

I. ARCHAEOLOGICAL RESOURCES

Additional investigations will be carried out as needed to determine the presence or absence of archaeological resources within the Hudson River portion of the APE, and to evaluate their eligibility for the National Register.

A. Submerged Paleo Landform

The following measures will be carried out to investigate deeply buried in situ marsh deposits and underlying river terraces that may be present approximately 45 to 50 feet below the Hudson River's bottom to the north of the bridge, and to avoid, minimize, or mitigate adverse effects to any deposits that may contain evidence of prehistoric activity dating to the beginning of the Early Archaic Period or the Paleo-Indian Period.

1. To determine the presence, extent, and significance of this landform, borings shall be undertaken in the potentially sensitive area and monitored by a professional archaeologist. The professional archaeologist shall also collect and analyze organic and/or soil samples recovered from the borings.
2. A report, documenting the findings of the soil boring program and soil analyses, shall be prepared by the professional archaeologist and submitted to NYSTA, NYSDOT, and FHWA for distribution

to the SHPO, Indian Tribes identified through the Section 106 outreach for the Project, and consulting parties as appropriate.

3. If the deeply buried Paleo landform is determined to be present and significant, the soil boring analysis report will serve to document the deeply buried Paleo landform and will serve as mitigation in the event that the Project's impacts to this resource cannot be avoided.

B. Submerged Historic Resources and Potential Shipwrecks

The APE is sensitive for potential shipwrecks and a small number of other potential archaeological resources, including the remains of docks and piers. NYSTA and NYSDOT, in coordination with FHWA, shall undertake the following measures to investigate these potential resources, evaluate National Register eligibility of any confirmed resources, and consider measures to avoid, minimize, or mitigate the Project's effects on such resources:

1. Remote sensing data shall be reviewed by a qualified maritime archaeologist to identify anomalies considered potential shipwrecks or submerged historic resources.
2. Underwater investigations, such as diving, shall be undertaken to visually examine any anomalies that could constitute submerged historic resources and potential shipwrecks and to determine their significance.
3. A report, documenting the findings of the investigations and the Project's potential effects on any identified significant resources shall be prepared and submitted to NYSHPO, Indian Tribes identified through the Section 106 outreach for the Project, and consulting parties as appropriate.
4. Measures to avoid, minimize, and mitigate adverse effects on any identified National Register eligible shipwrecks or other submerged historic resources, if identified, will be developed in consultation with NYSHPO Indian Tribes identified through the Section 106 outreach for the Project, and consulting parties as appropriate. These measures shall be developed prior to FHWA's issuance of the Record of Decision (ROD) for the Project.

C. Unanticipated Discoveries Plan

1. NYSTA and NYSDOT, in consultation with FHWA shall develop and implement an Unanticipated Discoveries Plan for human and non-human archaeological resources in the event that any unanticipated archaeological resources are encountered during construction of the Project.
2. The Unanticipated Discoveries Plan shall be prepared and submitted to NYSHPO for review and approval prior to any Project excavation and construction activities. The Unanticipated Discoveries Plan shall also be submitted for review to the Indian Tribes participating in Section 106 consultation for the Project.

D. General Requirements for Archaeological Investigations

1. All archaeological investigations will be performed in accordance with the Secretary of the Interior's *Standards and Guidelines for Archaeology* (48 FR 44734-37), the Advisory Council on Historic Preservation's *Section 106 Archaeology Guidance* (www.achp.gov/archguide), the New York State Education Department Cultural Resources Survey Program *Work Scope Specifications for Cultural Resource Investigations on New York State Department of Transportation Projects* (2004), and the New York Archaeological

167 Council's *Standards for Cultural Resource Investigations and Curation of Archaeological*
168 *Collections* (NYAC 1994).

169 2. All cultural resource studies carried out pursuant to this Agreement will be conducted by or
170 under the direct supervision of a person or persons meeting the Secretary of the Interior's
171 Professional Qualifications Standards (48 FR 44138-9).

172 3. All artifacts, notes and other documentation of archaeological investigations will be curated
173 according to federal (36 CFR 79) and state (NYAC 1994) guidelines.

174 **II. ARCHITECTURAL RESOURCES**

175 NYSTA and NYSDOT, in coordination with FHWA shall ensure that the following measures are
176 undertaken to minimize and mitigate adverse effects to Historic Properties:

177 A. Historic American Engineering Record (HAER)-Level Recordation

178 Historic American Engineering Record (HAER)-level recordation shall be prepared for the Tappan Zee
179 Bridge by a professional credentialed in preparing such reports. This recordation shall include the
180 following:

- 181 1. Measured drawings of the Tappan Zee Bridge, including a plan, elevations, and details;
- 182 2. Three-dimensional computer model of the Tappan Zee Bridge;
- 183 3. Archival photography of the Tappan Zee Bridge. Photographs, prints, and duplicates would meet
184 appropriate HAER archival standards;
- 185 4. A narrative that describes in detail the physical and historic characteristics of the Tappan Zee
186 Bridge; and
- 187 5. Archival copies of the HAER report shall be provided to FHWA, NYSHPO and local repositories
188 accessible to the public located in Rockland and Westchester Counties.

189 B. Historic American Building Survey (HABS)-Level Recordation

190 Historic American Building Survey Record (HABS)-level recordation shall be prepared for the two
191 historic properties (78 Smith Avenue and 21 Cornelison Avenue) in the South Nyack Historic District
192 that would be removed as a result of the project. This recordation will be prepared by a professional
193 credentialed in preparing such reports and shall include the following:

- 194 1. Measured drawings of the residences at 78 Smith Avenue and 21 Cornelison Avenue;
- 195 2. Archival photography of the residences at 78 Smith Avenue and 21 Cornelison Avenue;
- 196 3. A narrative that describes in detail the architectural and historic characteristics of the residences at
197 78 Smith Avenue and 21 Cornelison Avenue; and
- 198 4. Archival copies of the HABS report shall be provided to FHWA, NYSHPO and local repositories
199 accessible to the public in Rockland County.

200 C. Educational and Interpretive Materials

A plan for the development and preparation of educational and interpretive materials shall be prepared with the goal of documenting the history and significance of the Tappan Zee Bridge and the South Nyack Historic District and making the information available to the public.

1. The format and content of the education materials and interpretive exhibits shall be identified by FHWA, NYSTA, and NYSDOT in consultation with NYSHPO.
2. The targeted audience for the education materials and locations of the interpretive exhibits shall also be contained in the Plan.
3. Education materials shall include the following:
 - a. Written, graphic, or electronic media for use by local libraries, historical societies, and educational institutions; and
 - b. Interpretive exhibit(s) to be located on the project's planned shared-use path and in the South Nyack Historic District that present the history and engineering of the Tappan Zee Bridge and the history and architecture of the South Nyack Historic District.
4. The Educational and Interpretive Materials Plan shall be submitted to NYSHPO for review and approval. The Plan shall also be submitted to the concurring parties to this MOA for review and comment.

D. Vegetative Screening

Vegetation buffers shall be planted to mitigate adverse effects on the South Nyack Historic District resulting from the acquisition of the properties at 21 Cornelison Avenue and 78 Smith Avenue, identified as contributing resources.

1. Vegetative screening shall be planted along the western edge of the South Nyack Historic District in the locations where property will be acquired to construct the new South Broadway Bridge and the new shared use path.
2. A plan for the vegetative screening, including extent of screening and species proposed, shall be prepared by NYSTA and NYSDOT in consultation with FHWA, NYSHPO and concurring parties to this MOA as appropriate.

E. Construction Protection Plan

To avoid inadvertent project-related construction damage to historic properties, NYSTA and NYSDOT, in coordination with FHWA, will develop a Construction Protection Plan for Historic Properties.

1. The Construction Protection Plan shall be developed prior to excavation and construction activities.
2. In accordance with standard construction management practices, NYSTA and NYSDOT will:
 - a. Implement measures to protect historic properties from vibration, excavation, and damage from heavy equipment.
 - b. Take measures to ensure the safe and efficient movement of traffic around work zones through a Maintenance and Protection of Traffic Plan, including access for emergency services, (fire, medical, police).

- c. Take measures to ensure the maintenance of basic services (water, gas, electric).
- d. Implement measures for the control and / or management of fugitive dust, erosion, noise, lighting and visual effects of construction activities to the extent practicable.
3. NYSTA and NYSDOT shall ensure that all appropriate historic properties are included in the Construction Protection Plan and thereafter ensure that the provisions of the Construction Protection Plan are implemented by the Project contractors.
4. The Construction Protection Plan will be submitted for review and approval to FHWA and NYSHPO. The Plan shall also be submitted to the concurring parties of this MOA for review and comment.

III. DISPUTE RESOLUTION

Should any party to this Agreement object in writing to FHWA, NYSTA or NYSDOT regarding any action carried out or proposed with respect to the undertaking or to the implementation of this Agreement, FHWA shall consult with the objecting party to resolve the objection.

If after initiating consultation FHWA in coordination with NYSTA and NYSDOT determine that the objection cannot be resolved through consultation, FHWA shall forward all documentation relevant to the objection to the ACHP, including the Federal Lead Agency's proposed response to the objection.

Within 30 days after receipt of all pertinent documentation, ACHP shall exercise one of the following options:

A. Advise the Federal Lead Agency that the ACHP concurs in the Federal Lead Agency's proposed response to the objection, whereupon the Federal Lead Agency will respond to the objection accordingly;

B. Provide the Federal Lead Agency with recommendations, which the Federal Lead Agency shall take into account in reaching a final decision regarding its response to the objection; or

C. Notify the Federal Lead Agency that the objection will be referred for comment pursuant to 36 CFR 800.7(a) (4), and proceed to refer the objection and comment. The Federal Lead Agency shall take the resulting comment into account in accordance with 36 CFR 800.7(c) (4).

IV. REPORTING AND OVERSIGHT

A. Reports

1. NYSDOT, in coordination with NYSTA, will provide to NYSHPO and FHWA all final cultural resources plans, reports and studies resulting from this Agreement.

2. NYSHPO shall provide written concurrence or comments within 30 calendar days of receipt of draft and final plans, reports and studies. If no comments are received, FHWA, NYSTA and NYSDOT shall consider the NYSHPO in concurrence.

3. Concurring parties to this MOA shall provide written comments within 30 days of receipt of any plans, reports and studies provided for their review. FHWA, NYSTA, and NYSDOT shall take all written comments into consideration.

B. Annual Reports. Commencing one year from the date that this Agreement is fully executed and every year thereafter until the Project has been completed, or the Agreement has been terminated, NYSTA and NYSDOT will submit annual reports to NYSHPO and FHWA providing

information concerning implementation of this Agreement. These reports will be provided to other consulting parties via the Project website or another agreed-upon method of distribution..

V. DURATION, AMENDMENT AND TERMINATION

A. This Memorandum of Agreement shall take effect on the date it is signed by the last signatory and will remain in effect until the Stipulations set forth herein have been met.

B. Any signatory to this Agreement (FHWA, SHPO, ACHP, NYSTA, NYSDOT) may request that it be amended, whereupon the parties will consult to reach a consensus on the proposed amendment. 36 CFR 800.6(c) shall govern the execution of any such amendment. Where no consensus can be reached, the Agreement will not be amended.

C. Any signatory to this Agreement may terminate it by providing thirty (30) days notice to the other parties, provided that the signatories and consulting parties will consult during the period prior to termination to seek agreement on amendments or other actions that would avoid termination. Termination of the Agreement will be governed by 36 CFR 800.6(c).

EXECUTION OF THIS MEMORANDUM OF AGREEMENT and implementation of its Stipulations evidences that FHWA, NYSTA, NYS DOT, and NYSHPO have taken into account the effects of the Project on historic properties and afforded the ACHP an opportunity to comment on those effects.

291 **Signatories:**

292 New York State Department of Transportation

293 By: _____ Date: _____

294 _____
Name and Title

295 New York State Thruway Authority

296 By: _____ Date: _____

297 _____
Name and Title

298 New York State Historic Preservation Officer

299 By: _____ Date: _____

300 _____
Name and Title

301 Federal Highway Administration

302 By: _____ Date: _____

303 _____
Name and Title

304 Advisory Council on Historic Preservation

305 By: _____ Date: _____

306 _____
Name and Title

307 **Invited:**

308 Delaware Nation

309 By: _____ Date: _____

310 _____
Name and Title

311 Delaware Tribe

312 By: _____ Date: _____

313 _____
Name and Title

314 Saint Regis Mohawk Tribe

315 By: _____ Date: _____

316 _____
Name and Title

317 Shinnecock Indian Nation

318 By: _____ Date: _____

319 Name and Title

320 Stockbridge-Munsee Band of Mohican Indians

321 By: _____ Date: _____

322 Name and Title

323

324

325

326 **Concurring:**

327 TBD

DRAFT

328

LIST OF EXHIBITS

- 329 **A Project Location Map**
- 330 **B Section 106 Consulting Parties**
- 331 **C Area of Potential Effects Map**
- 332 **D Identified Historic Properties**

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EXHIBIT A
PROJECT LOCATION MAP

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EXHIBIT B

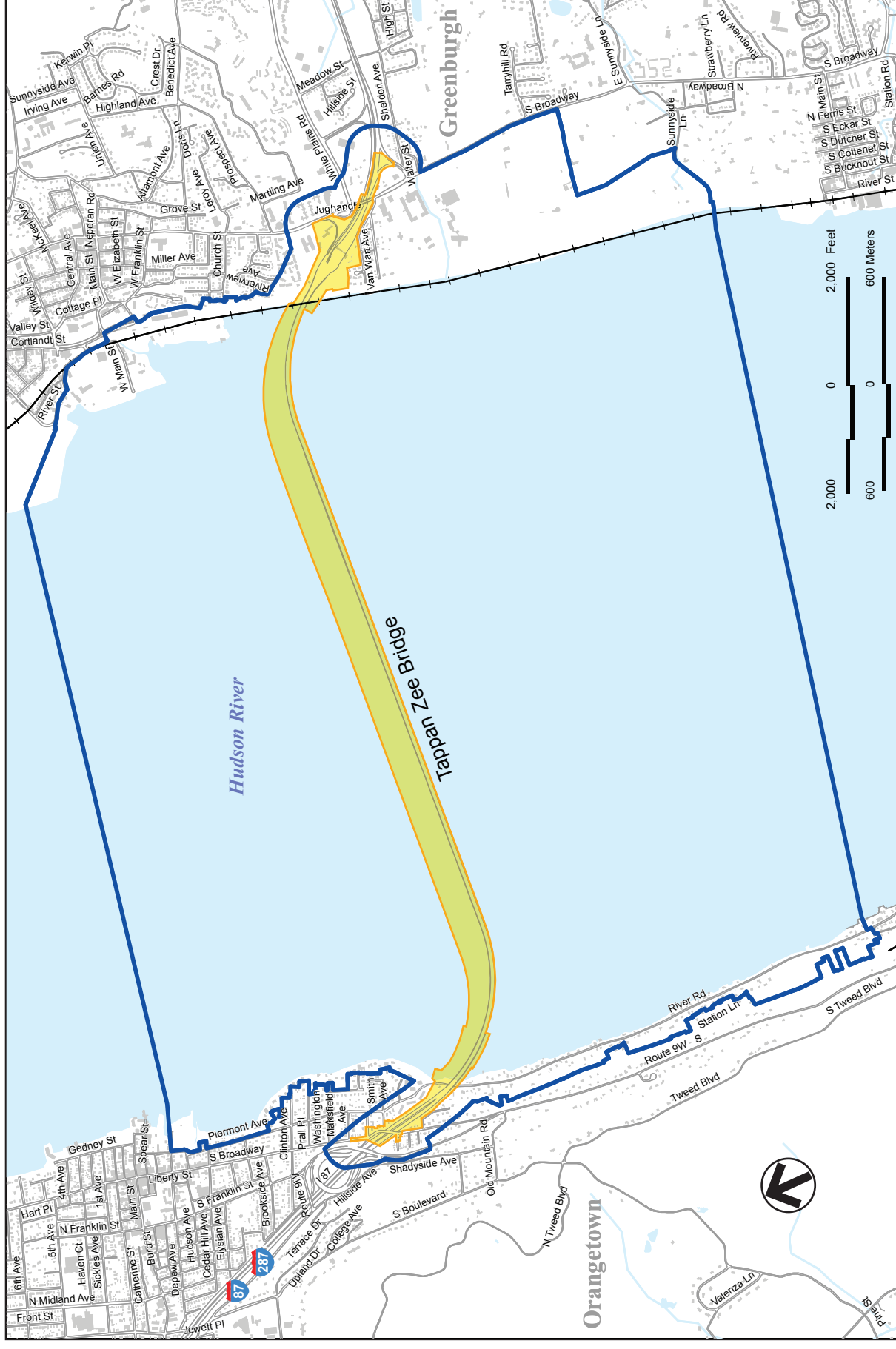
SECTION 106 CONSULTING PARTIES

Individual/Organization	Contact	Address
Advisory Council on Historic Preservation (ACHP)	Carol Legard, FHWA Liaison	1100 Pennsylvania Avenue NW, Suite 807 Washington, DC 20004
Berezowsky, Adrian, Sleepy Hollow resident		55 West Red Oak Lane, White Plains, NY 10604
Delaware Nation	Tamara Francis, Cultural Resource Preservation Director, Jason Ross, Section 106 Assistant	31064 State Highway 281, Anadarko, OK 73005
Delaware Tribe	Dr. Brice Obermeyer,	Delaware Tribe Historic Preservation Office, 1420 C of E Drive, Suite 190, Emporia, KS 66801
Forrest, Bruce D.		Forrest & Company, Inc., P.O. Box 444, Nyack, NY 10960
Friends of the Old Croton Aqueduct Rob	ert Kornfeld	47 Summit Drive, Hastings-on-Hudson, NY 10706
The Historical Society Inc.	Sara Mascia	One Grove St, Tarrytown, NY 10591
Historical Society of the Nyacks	Winston C. Perry Jr, President	319 North Broadway, Nyack, NY 10960
Historical Society of Rockland County	Marianne B. Leese	20 Zukor Road, New City, NY 10956
Lecuona, Milagros, White Plains Council woman		269 Old Mamaroneck Rd, White Plains, NY 10605
Lynn, Lawrence, Mayor of Village of Grand View-on-Hudson		276 River Road, Grand View, NY 10960
National Trust for Historic Preservation	Elizabeth S. Merritt, Deputy Counsel	1785 Massachusetts Ave N.W. Washington, DC 20036
	Krystyn Hastings-Silver	Lyndhurst, 635 South Broadway, Tarrytown, NY 10591
	Roberta Lane	7 Faneuil Hall Marketplace, 4th floor, Boston, MA 02109
Riverkeeper	c/o Pace University School of Law	Pace University School of Law, 78 North Broadway, White Plains, NY 10603
Saint Regis Mohawk Tribe	Chief Randy Hart Arnold Printup, Jr. THPO	412 State Route 37, Hogansburg, NY 13655
Shinnecock Indian Nation	Marguerite Smith, Office of Tribal Trustees/Legal	100 Church Street, Shinnecock Community Center, Southampton, NY 11968
SHPO	John Bonafide, Ruth Pierpont, Mark Peckham	P.O. Box 189, Peebles Island, Waterford, NY 12188
Steiner, Henry, Village of Sleepy Hollow Historian		56 Pocantico Street, Sleepy Hollow, NY 10591
Stockbridge-Munsee Band of Mohican Indians	Sherry White, THPO	W13447 Camp 14 Road, Bowler, WI 54416
Stolldorf, Gini, Nyack resident		15 Fourth Avenue, Nyack, NY 10960
Westchester County Historical Society	Katherine Hite, Executive Director	2199 Saw Mill River Rd, Elmsford, NY 10523

EXHIBIT C

AREA OF POTENTIAL EFFECTS MAP

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Direct Effect Area of Potential Effect (APE)

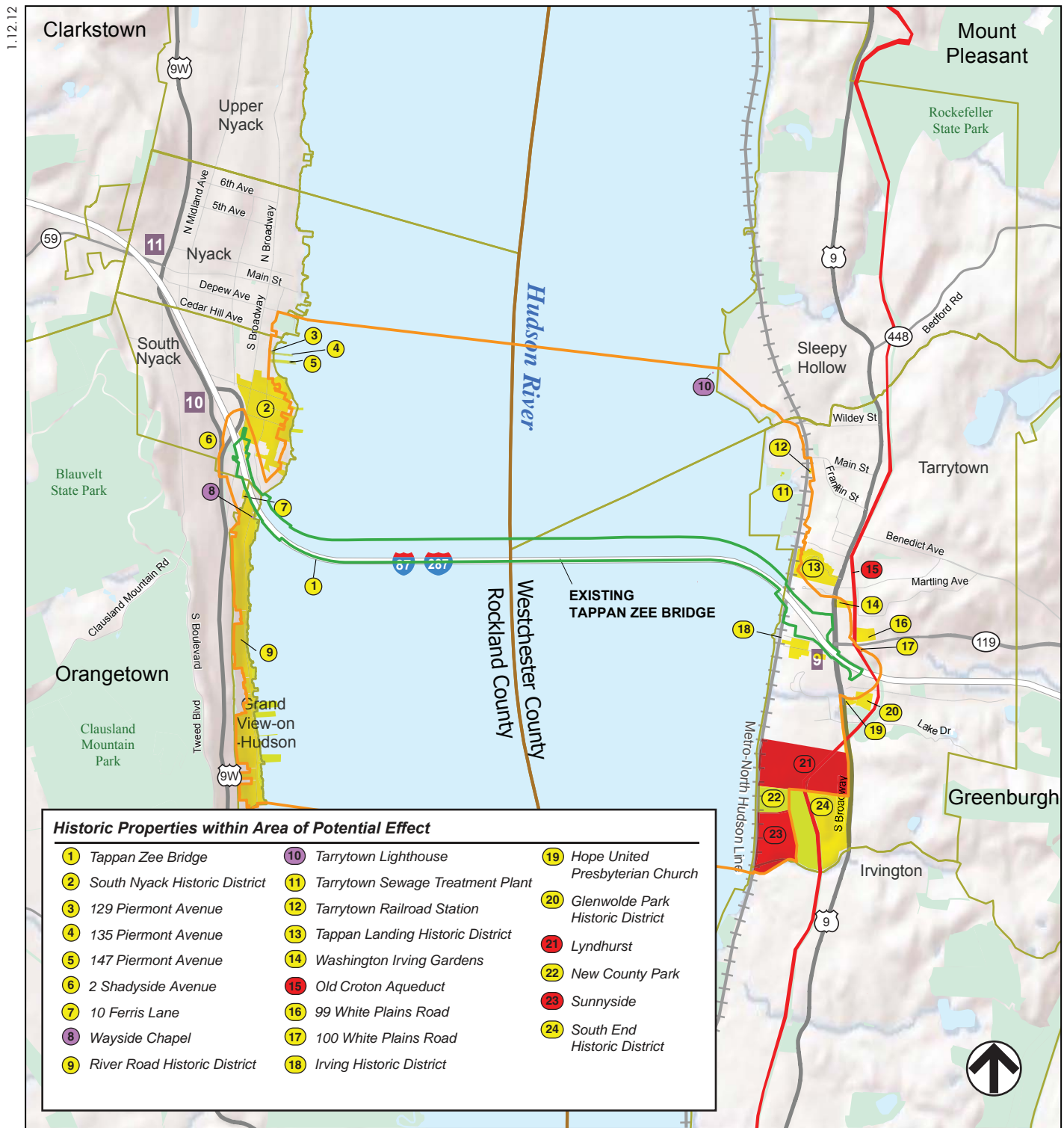
Indirect Effect Area of Potential Effect (APE)

TAPPAN ZEE HUDSON RIVER CROSSING
Memorandum of Agreement

EXHIBIT D

IDENTIFIED HISTORIC PROPERTIES IN THE APE

Ref No. ¹	Name Location		NHL	NR Listed	NR Eligible
1	Tappan Zee Bridge (BIN 5516340)	Interstate I-87/287 over the Hudson River			X
<i>Rockland County</i>					
2	South Nyack Historic District* South	Nyack			X
3	129 Piermont Avenue*	South Nyack			X
4	135 Piermont Avenue*	South Nyack			X
5	147 Piermont Avenue*	South Nyack			X
6	2 Shadyside Avenue*	South Nyack			X
7	10 Ferris Lane*	Orangetown			X
8	Wayside Chapel**	24 River Road, Grand-View-on-Hudson		X	
9	River Road Historic District*	River Road, Grand-View-on-Hudson			X
<i>Westchester County</i>					
10	Tarrytown Lighthouse	Kingsland Point Park, Route 9, Sleepy Hollow		X	
11	Tarrytown Sewage Treatment Plant*	Pierson Park, Tarrytown			X
12	Tarrytown Railroad Station	1 Depot Plaza, Tarrytown			X
13	Tappan Landing Historic District*	Tappan Landing Road & North Tappan Road Tarrytown			X
14	Washington Irving Gardens*	300 South Broadway, Tarrytown			X
15	Old Croton Aqueduct	Route 9, Tarrytown	X	X	
16	99 White Plains Road*	Tarrytown			X
17	100 White Plains Road*	Tarrytown			X
18	Irving Historic District*	Van Wart & Paulding Avenues, Tarrytown			X
19	Hope United Presbyterian Church*	500 South Broadway, Tarrytown			X
20	Glenwolde Park Historic District*	Glenwolde Park, Water Street, and Willowbrook Avenue, Tarrytown			X
21	Lyndhurst	635 South Broadway, Tarrytown	X	X	
22	New County Park	Route 9, Tarrytown			X
23	Sunnyside	1 West Sunnyside Lane, Tarrytown	X	X	
24	South End Historic District*	West side of Route 9, Tarrytown			X
Notes: ¹ Corresponds to Figures D-1 through D-5 . *Determines National Register of Historic Places-Eligible as part of this project **Also a contributing resource within S/NR-eligible River Road Historic District, Grand View-on-Hudson, Rockland County NHL: National Historic Landmark. NR: National Registers of Historic Places.					



14 Interchange Number

87 Interstate Highway

9W U.S. Highway

59 State Highway

Historic Properties

Direct Effect Area of Potential Effect (APE)

Indirect Effect Area of Potential Effect (APE)

NHL

S/NRHP Listed

S/NRHP Eligible

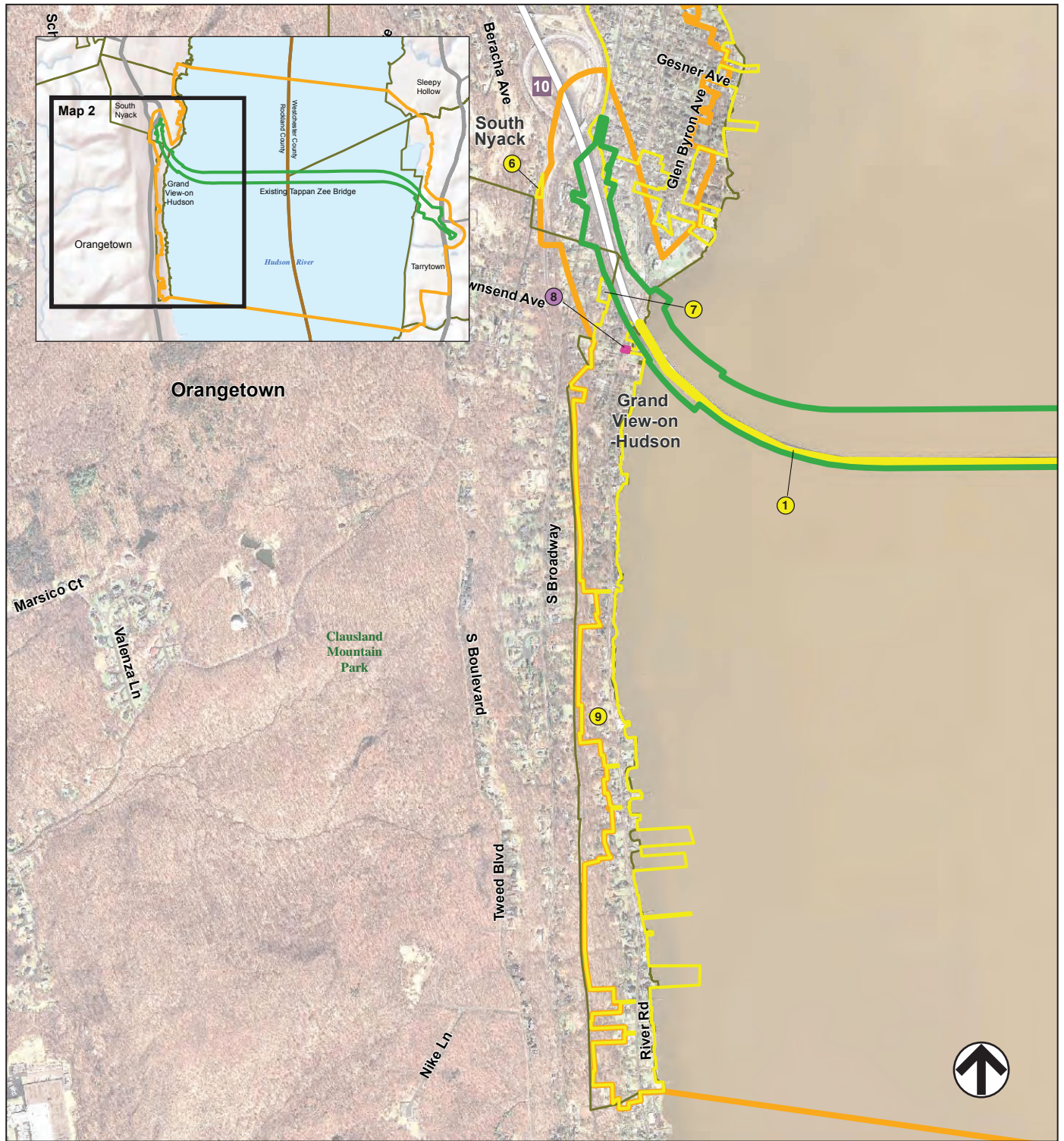
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SCALE



- Direct Effect Area of Potential Effect (APE)
- Indirect Effect Area of Potential Effect (APE)
- S/NRHP Eligible

**Historic Properties within
Area of Potential Effect – Map 1**

- 2 South Nyack Historic District
- 3 129 Piermont Avenue
- 4 135 Piermont Avenue
- 5 147 Piermont Avenue



- Direct Effect Area of Potential Effect (APE)
- Indirect Effect Area of Potential Effect (APE)
- S/NRHP Listed
- S/NRHP Eligible

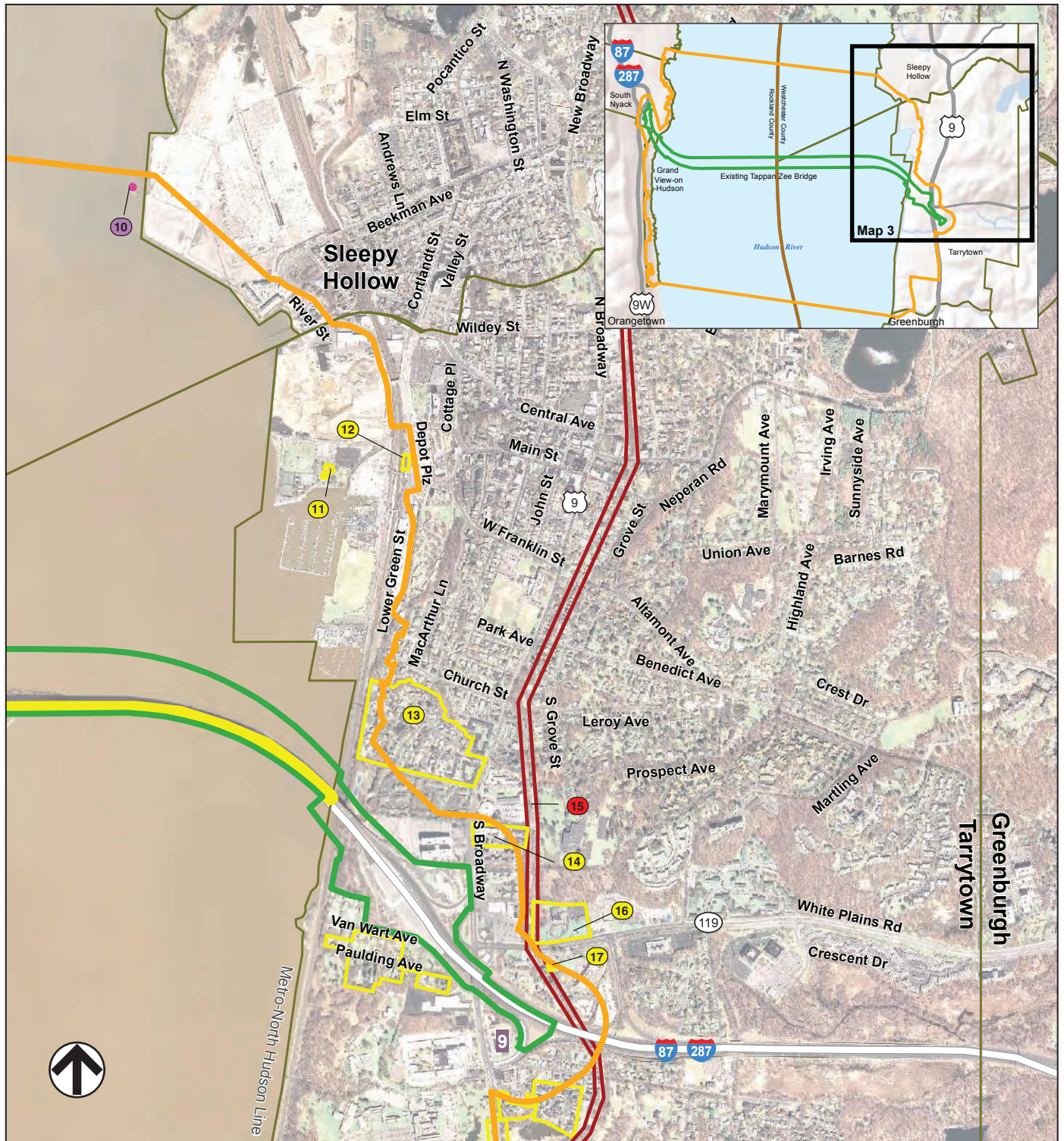
**Historic Properties within
Area of Potential Effect – Map 2**

- 1 Tappan Zee Bridge
- 6 2 Shadyside Avenue
- 7 10 Ferris Lane
- 8 Wayside Chapel
- 9 River Road Historic District

0 2000 FEET
SCALE

Appendix D:
Figure D-3

**Historic Properties in APE:
Detail of Rockland County South**



- Direct Effect Area of Potential Effect (APE)
- Indirect Effect Area of Potential Effect (APE)
- NHL
- S/NRHP Listed
- S/NRHP Eligible

**Historic Properties within
Area of Potential Effect – Map 3**

- 10 Tarrytown Lighthouse
- 11 Tarrytown Sewage Treatment Plant
- 12 Tarrytown Railroad Station
- 13 Tappan Landing Historic District
- 14 Washington Irving Gardens
- 15 Old Croton Aqueduct
- 16 99 White Plains Road
- 17 100 White Plains Road

0 2000 FEET
SCALE

Appendix D:
Figure D-4

**Historic Properties in APE:
Detail of Westchester County North**



- Direct Effect Area of Potential Effect (APE)
- Indirect Effect Area of Potential Effect (APE)
- NHL
- S/NRHP Listed
- S/NRHP Eligible

Historic Properties within Area of Potential Effect – Map 4

- 18 Irving Historic District
- 19 Hope United Presbyterian Church
- 20 Glenwolde Park Historic District
- 21 Lyndhurst
- 22 New County Park
- 23 Sunnyside
- 24 South End Historic District

0 2000 FEET
SCALE