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***Appendix A***  
***Archeological Monitoring Plan***

**INTERMODAL FERRY TRANSPORTATION CENTER  
CITY OF SOUTH AMBOY  
MIDDLESEX COUNTY, NEW JERSEY**

**ARCHAEOLOGICAL MONITORING PLAN  
(April 2021)**

**PURPOSE**

Archaeological monitoring of construction of the Intermodal Ferry Transportation Center (IFTC), City of South Amboy, Middlesex County, New Jersey, is intended as fulfillment of the requirements of Section 106 of the National Historic Preservation Act of 1966 (as amended) and will partially satisfy Stipulation II of the Third Amended Memorandum of Agreement (MOA), executed in July 2021, between: the Federal Highway Administration, New Jersey Division; the United States Army Corps of Engineers, New York District; the New Jersey State Historic Preservation Office (NJSHPO); the New Jersey State Department of Transportation (NJDOT); and the City of South Amboy. The purpose of the archaeological monitoring is to ensure that archaeological resources adversely affected by construction of the IFTC, and which are considered contributing to the Camden and Amboy (Main Line) Historic District, or otherwise eligible for the New Jersey and National Registers of Historic Places, are identified and documented within the framework of the construction schedule.

This document sets out procedures to ensure that the archaeological monitoring is carried out in the most efficacious and efficient manner during construction. The principal objective is to minimize or eliminate time and cost delays during construction, while ensuring that significant archaeological resources contributing to the Camden and Amboy (Main Line) Historic District, or other New Jersey and National Register-eligible properties, are appropriately treated in a manner consistent with current professional archaeological practice.

**DEFINITIONS**

**“Observational Monitoring”** means the rapid recordation of archaeological discoveries made during Contractor's operations. This is accomplished by archaeologists using visual observation, photography and written notes, the inspection of back dirt piles, and the mapping of discoveries in plan and profile. Short-term cessation of work (as defined below) may be required in order to complete some recordation actions. Such cessations do not disrupt the Contractor’s schedule and are not subject to claims from the Contractor.

**“Documentary Monitoring”** means the detailed investigation and recording of archaeological discoveries while Contractor's operations are suspended at a particular location for an agreed period. These costs may be recoverable by the Contractor if such

stoppages are specifically authorized. Authorization will be through specific procedures set out below.

**“Short-term Cessation of Work”** means a period of not more than two hours during observational monitoring.

**“Contractor”** means the company or entity responsible for construction activity covered by IFTC project plans and specifications, which are subject to the Memorandum of Agreement.

**“Project Engineer”** means the City of South Amboy’s assigned engineer or other City representative overseeing the construction project and Contractor operations whose responsibility it is to provide coordination between the Contractor and Archaeological Monitor.

**“Archaeological Monitor”** means an archaeologist meeting the Secretary of the Interior’s Standards as set forth in 48 FR 44716 and who is authorized to perform archaeological monitoring for the IFTC project.

## **CONTRACTOR RESPONSIBILITIES**

The Contractor will:

1. Maintain regular contact with the Project Engineer and Archaeological Monitor.
2. Ensure that the Archaeological Monitor has access to the site at all reasonable times.
3. Work with the Project Engineer to ensure that the Archaeological Monitor is aware of the project schedule and has two business days’ notice of operations requiring monitoring.
4. Communicate the requirements and procedures for monitoring to any subcontractors.
5. Provide the Archaeological Monitor with a copy of the Contractor’s Health and Safety Plan and introduce the Site Safety and Health Officer to the Archaeological Monitor before the start of monitoring work.

## **PROJECT ENGINEER RESPONSIBILITIES**

The Project Engineer will:

1. Maintain regular contact with the Contractor and the Archaeological Monitor.
2. Facilitate communication between the Contractor and the Archaeological Monitor throughout the period that archaeological monitoring is required on site.
3. Work with the Contractor to ensure that the Archaeological Monitor is aware of the project schedule and have two business days’ notice of operations requiring monitoring.

## **ARCHAEOLOGICAL MONITOR RESPONSIBILITIES**

The Archaeological Monitor will:

1. Maintain regular contact with the Project Engineer and Contractor.
2. Conform to the Contractor's procedures and schedules on work sites.
3. Seek to perform the required archaeological monitoring so as to limit, as far as possible, disruption to the overall construction schedule.
4. Provide adequate staff to complete appropriate recording for Observational Monitoring and for Documentary Monitoring procedures.
5. Confer, as necessary, with appropriate NJDOT and NJSHPO staff relative to Section 106 consultation as it pertains to the IFTC project.

## **ACTIONS REQUIRING ARCHAEOLOGICAL MONITORING**

Construction activities that will require archaeological monitoring comprise:

- Trenching for utilities and drainage, and any other bulk removal of material by machinery or hand digging where excavation extends to depths below 15 feet above mean sea level, except as where ground is determined by the Archaeological Monitor to be already disturbed or of no archaeological interest
- The relocation or removal of any artifacts, such as stone sleepers, iron and stone rails, catenary or railroad-related artifacts (observational monitoring only)
- Dredging to the northeast of the Westmoreland Pier, as indicated on project plans
- Demolition or removal of existing timber bulkheads or piles

## **PROCEDURES:**

### **1. Flow of Information**

The Project Engineer will facilitate a regular exchange of information concerning the Contractor's work schedule and the requirements for archaeological monitoring. Arrangements will be made to ensure that the Archaeological Monitor will be on site when any Actions Requiring Archaeological Monitoring (see above) are in progress.

The Archaeological Monitor will maintain a daily log of monitoring activity on site, which will, at a minimum, be shared weekly with the Project Engineer.

### **2. General Considerations**

#### Historical and Industrial Archaeological Resources:

The principal historical and industrial archaeological resources anticipated as requiring monitoring are building foundations and floor surfaces, remnant wharfs and bulkheads, remains of railroad infrastructure such as rail track and rail beds, turntables, other footings

and related cultural deposits containing historic artifacts (e.g., ceramics, glass, metal, building materials, bone). Particular attention should be paid to bone or teeth fragments or concentrations of bone in case they represent human remains. Procedures for monitoring historical and industrial archaeological resources are detailed in Sections 3 and 4 below.

Native American Archaeological Resources:

There is some expectation that Native American archaeological resources will survive beneath the historical and industrial features and deposits on the IFTC site. Such remains may include traces of hearths, pits, postholes and soil strata containing Native American artifacts, charcoal and other environmental data. A more detailed protocol for addressing Native American archaeological resources discovered during construction is provided in Section 6 below.

Human Remains:

There is a minimal possibility that human remains, either as intact burials or disarticulated skeletal fragments from previously disturbed interments, will be encountered during Contractor operations. A more detailed protocol for addressing human remains discovered during construction is provided in Section 7 below.

Safety:

The Archaeological Monitor will report to the Contractor's representative responsible for site safety prior to monitoring operations to ensure monitoring is being conducted in compliance with the Contractor's Health and Safety Plan.

### **3. Observational Monitoring**

Observational monitoring will entail either of the following:

Non-intrusive observations:

The Archaeological Monitor will observe the Contractor's excavations, inspecting back dirt piles and exposed trench profiles, taking notes and digital photographs, and collecting artifact and soil samples as necessary.

Short-duration work stoppages:

On the basis of observations, the Archaeological Monitor may request the Contractor for a short-term cessation of work at a particular location in order to record information in more detail, or to more thoroughly evaluate exposed material. **“Short-term cessation of work”** is defined as a **period of not more than two hours**. Stoppages in excess of two hours will fall under Documentary Monitoring, and require authorization as set out below.

#### **4. Documentary Monitoring**

##### Decision-making process:

The decision on the necessity for Documentary Monitoring will be made by the Archaeological Monitor in consultation with representatives of the NJDOT BEPR and the NJSHPO. If the Archaeological Monitor on site determines that there are significant archaeological resources at the work location, and that these cannot be adequately evaluated and recorded through Observational Monitoring (up to and including a two-hour cessation of work), he/she will inform the Contractor and the Project Engineer immediately, and in any case within the two-hour cessation period if implemented.

The Project Engineer will convene, as soon as reasonably possible, a site meeting or conference phone call between the Contractor, the Archaeological Monitor, representatives of the NJDOT-BEPR and the NJSHPO and other parties as considered necessary by the Project Engineer (e.g., representatives of the tribal nations), to discuss the need for documentary monitoring, recommend appropriate documentation procedures and identify the anticipated extent and duration of the work needed. This work will not proceed without the written approval and agreement of both the NJDOT BEPR and the NJSHPO. A summary record of each decision will be emailed by the Project Engineer to the City of South Amboy and those representatives of the NJDOT BEPR and the NJSHPO involved in the decision.

##### Implementation:

For the duration of each Documentary Monitoring episode the defined portion of the site will be under the control of the Archaeological Monitor, who will be free to operate, within the terms of the agreement, at that location. The Archaeological Monitor will conform to the Health and Safety Plan provisions that apply at the project site, and will consult with the Contractor's Site Safety and Health Officer before starting work on each episode of Documentary Monitoring.

The Archaeological Monitor will inform the Contractor and Project Engineer as soon as each Documentary Monitoring episode is complete.

#### **5. Procedures for Unanticipated Discovery by the Contractor**

When the Contractor's excavations encounter historic structural remains, or artifacts of historical or archaeological nature, and the Archaeological Monitor is not present, operations will be temporarily discontinued at that location for a period of not more than 24 hours. The Contractor will contact the Project Engineer immediately, and the Project Engineer will subsequently contact the Archaeological Monitor. In consultation with representatives of the NJDOT BEPR and NJSHPO, the Archeological Monitor will determine if Observational or Documentary Monitoring will be required. If monitoring will be required, it will proceed as described above.

## **6. Procedures for Discovery of Native American Archaeological Resources**

In the event archaeological monitoring of the Contractor's excavations shows that Native American archaeological resources have been encountered, all ground disturbing activity in the location of the discovery should be immediately halted until the Project Engineer and representatives of the NJDOT BEPR, the NJSHPO and the Delaware Nation have been notified. Such notification is to take place within 24 hours. The appropriate course of monitoring action with respect to the discovered Native American archaeological resources will be determined through consultation between representatives of the NJDOT BEPR, the NJSHPO and the Delaware Nation, the Project Engineer and the Archaeological Monitor.

## **7. Procedures for Discovery of Native American or Historic Period Human Burials**

If human remains are found, the Contractor and/or the Archaeological Monitor will immediately notify the Project Engineer, representatives of both the NJDOT BEPR and NJSHPO, and, if such remains are potentially of Native American origin, the designated representative of the Delaware Nation, informing them of the find and any actions taken.

All ground-disturbing activities in the vicinity shall cease immediately. The potential burials shall be left in place unless imminently threatened by human or natural displacement. Reversible actions such as careful obscuring and/or securing the burial(s) through backfilling of soils or other means shall be undertaken. Legal authorities and, as appropriate, the County Medical Examiner should be contacted by the Project Engineer to determine jurisdiction and legal measures that may be required. For the protection of the potential burials, information regarding the discovery shall not be disclosed to others except for individuals who have a need to know (e.g., site managers). If informative types of identification as to affiliation, condition, etc. prior to securing the potential burial(s) can be achieved without further displacement or excavation, this should be accomplished.

Excavation and other activities in the vicinity may resume after approval is provided by relevant parties potentially including, but not limited to, representatives of the State Medical Examiner's office, the NJDOT BEPR, the NJSHPO and the Delaware Nation. For most archaeological resource types involving human burials, if avoidance is not possible, archaeological data recovery can be accomplished prior to resumption of Contractor activities. However, for Native American and certain other human burials, exhumation may not be an acceptable alternative and may require embarking on a process of notification and consultation with lineal descendants and/or individuals and groups of similar cultural heritage. In addition, interested public and professional communities may need to be involved in consultation concerning the appropriate treatment and disposition of human burials. Regardless of final disposition of human remains, dignity and respect should accompany all treatment.

Investigation of historic or Native American archaeological remains, including skeletal remains and other burial-related remains, shall be accomplished by a professional archaeologist meeting the National Park Service's Professional Qualifications Standards

for Archaeology. Exhumation and analysis of historic or prehistoric period skeletal remains shall be accomplished by a professional skeletal analyst having: 1). a graduate degree in a field involving the study of the human skeleton such as skeletal biology, forensic osteology or other relevant aspects of physical anthropology or medicine; 2). a minimum of one year's experience in conducting laboratory reconstruction and analysis of skeletal remains, including the differentiation of the physical characteristics denoting cultural or biological affinity; and 3). demonstrated ability to design and execute a skeletal analysis including the written results and interpretations of such analysis.

## **POINTS OF CONTACT**

### **Archaeological Monitor:**

Hunter Research, Inc., 120 West State Street  
Trenton NJ 08608  
609-695-0122

James Lee, Vice President; xtn 106; Mobile 908-329-5331

### *Alternate:*

Joshua Butchko, Principal Investigator, xtn 116. Mobile 609-350-3286.

### **Contractor:**

To be determined

### **Project Engineer:**

To be determined

### **NJDOT Bureau of Environmental Program Resources (BEPR):**

To be determined

### **New Jersey State Historic Preservation Office**

(contact one of the following in this order)  
Kate Marcopul; Office 609-984-5816

### *Alternates:*

Vincent Maresca; Office 609-633-2395  
Jesse West-Rosenthal; Office 609-984-6019

### **Delaware Nation**

Erin Paden, Director of Historic Preservation; 405-247-2448 xtn 1403