



## **REQUEST FOR PROPOSALS**

### **FOR**

### **Phase 6 Pile Remediation – Marine Construction Services**

## Table of Contents

I.	SUMMARY.....	1
II.	GENERAL PROVISIONS .....	1
III.	TIMETABLE & DESIGNATED CONTACT .....	2
	A. Key Dates .....	2
	B. Anticipated Contract Term.....	2
IV.	GENERAL REQUIREMENTS.....	2
	A. Minimum Qualification Requirements.....	2
	B. MBE/WBE/SDVOB Participation, Joint Ventures, and Sub-contracting Goals .....	2
	C. Restricted Period .....	3
	D. Submission of Proposals .....	3
V.	PROPOSAL FORMAT AND CONTENTS.....	3
	A. Proposal Format .....	3
	B. Proposal Content .....	3
VI.	INFORMATION REQUIRED .....	4
	A. Questions and Information Sought Relating to the Work .....	4
	B. Questions and Information Sought Relating to Proposer’s Firm & Eligibility .....	5
	C. Required Attachments .....	5
VII.	INSURANCE/BONDING REQUIREMENTS .....	7
	A. General Requirements .....	6
	B. Insurance Requirements for the Selected Proposer.....	7
	C. Insurance Requirements for all Subcontractors.....	8
VIII.	COST PROPOSAL: FORMAT AND REQUIRED INCLUSIONS .....	9
IX.	SELECTION PROCESS .....	9
	A. Evaluation .....	9
	B. Interviews.....	9
	C. Evaluation Criteria for Selection.....	9
	D. Basis for Contract Award.....	10
X.	NON-COLLUSION.....	10
XI.	IRAN DIVESTMENT ACT .....	10
XII.	ENCOURAGING USE OF NEW YORK STATE BUSINESSES IN CONTRACT PERFORMANCE ....	11

EXHIBIT A -	PROJECT DESCRIPTION, SCHEDULE, GENERAL REQUIREMENTS, & SCOPE OF WORK
EXHIBIT B -	MBE/WBE/SDVOB REQUIREMENTS, MBE/WBE & EEO POLICY STATEMENT, AND MBE/WBE DIVERSITY PRACTICES QUESTIONNAIRE
EXHIBIT C -	BPCA’S STANDARD FORM OF CONTRACT
EXHIBIT D -	COST PROPOSAL
EXHIBIT E -	SCHEDULE OF VALUES
EXHIBIT F -	LABOR RATES
EXHIBIT G -	DRAWINGS & SPECIFICATIONS

EXHIBIT H - PERMITS

EXHIBIT I - ACKNOWLEDGEMENT OF ADDENDA

EXHIBIT J - LIST OF BPCA & BPCPC BOARD MEMBERS AND EMPLOYEES

## **I. SUMMARY**

Battery Park City Authority, d/b/a Hugh L. Carey Battery Park City Authority (“BPCA”), requests proposals (individually, a “Proposal” or collectively, the “Proposals”) from general or marine contractors (each individually, a “Proposer” or collectively, the “Proposers”) to provide BPCA with marine construction services for the Phase 6 Pile Remediation - Marine Construction Services Project, as described in the Scope of Work (Exhibit A) and in the Drawings and Specifications (Exhibit G) (collectively, the “Project” or the “Work”). The Work will be performed beneath three distinct areas of the Battery Park City Pedestrian Esplanade: 1) the Esplanade immediately north of South Cove; 2) the Esplanade in Rockefeller Park (just north of the Ferry Terminal), and 3) the North Esplanade (north of Stuyvesant High School). The various identified points of repair, and the approved points of access thereto, shall be collectively referred to as the “Project Site.”

Created in 1968, BPCA is a New York State public benefit corporation that is responsible for financing, developing, constructing, maintaining, and operating Battery Park City as a richly diversified, mixed-use community providing residential and commercial space, with related amenities such as parks, plazas, recreational areas, and a waterfront esplanade. A summary of BPCA’s structure, mission, and history, as well as the Battery Park City catchment area, may be viewed at: <http://bpca.ny.gov/>. Public information regarding BPCA’s finances, budget, internal controls, guidelines, and policies may be viewed at: <http://bpca.ny.gov/public-information/>. Information related to the Battery Park City Parks Conservancy Corporation (“BPCPC”), BPCA’s affiliate, may be viewed at: <http://bpcparks.org/>.

New York State-certified Minority-Owned Business Enterprises (“MBE”), Women-Owned Business Enterprises (“WBE”), and Service-Disabled Veteran-Owned Business Enterprises (“SDVOB”) are encouraged to submit Proposals.

## **II. GENERAL PROVISIONS**

This Request for Proposals, including all attachments, exhibits, and any amendments or addenda (collectively, the “RFP”), is subject to the rights reserved by BPCA – including, but not limited to, BPCA’s right to:

- Withdraw and/or cancel this RFP at any time before final award of the contract;
- Request clarification and/or additional information from any or all Proposers;
- Amend any term or requirement of this RFP at any time before award of the contract (Proposers may amend their Proposals, as directed by BPCA, if BPCA materially alters or amends the RFP after submission of Proposals);
- Alter any key dates or deadlines related to this RFP;
- Award the Work, in whole or in part, to one or more Proposers with or without interviews or negotiations;
- Reject any Proposal that does not strictly conform to the requirements of this RFP;
- Conduct an interview with any or all of the Proposers to aid the evaluation process;
- Request a best and final offer from any of the Proposers;
- Negotiate potential contract terms with any Proposer.

BPCA is not liable or responsible in any way for any expenses incurred in the preparation of a Proposal in response to this RFP. All information submitted in response to this RFP is subject to the Freedom of Information Law, Article 6 of the New York State Public Officers Law (“FOIL”), which requires public access to certain documents possessed by BPCA, unless a specific exemption applies. Proposers are responsible for identifying any information in their respective Proposals considered to be confidential and exempt from FOIL. BPCA, however, is obligated to disclose information consistent with the requirements of FOIL, New York State Public Officers Law Section 87.



### **III. TIMETABLE & DESIGNATED CONTACT**

#### **A. *Key Dates***

Subject to change at BPCA's discretion, the following are key dates for this RFP:

- RFP issued: March 7, 2019
- Pre-proposal meeting (attendance is highly recommended):
  - Date & Time: March 13, 2019 at 9:30 a.m.
  - Location: BPCA Offices (200 Liberty Street, 24<sup>th</sup> Floor, New York, NY 10281)
- Deadline to submit questions to BPCA: March 18, 2019, by 5:00 p.m. (by email only)

All questions regarding this RFP should be submitted in writing via email to the "Designated Contact": Michael LaMancusa, Assistant Contracting Officer, Battery Park City Authority, at [michael.lamancusa@bpca.ny.gov](mailto:michael.lamancusa@bpca.ny.gov).

- BPCA's response to substantive questions: March 25, 2019, (via BPCA Website)
- PROPOSAL DUE DATE: April 2, 2019 by 5:00 p.m. (the "Due Date")
- Contract start date: May 2019 (approximate)

#### **B. *Anticipated Contract Term***

It is anticipated that the term of the contract or contracts awarded pursuant to this RFP (the "Contract" or "Contracts") will be twelve (12) months, although the in-water work must be completed between May 1, 2019 and October 31, 2019. It is BPCA's objective to have all of the Work completed as expeditiously as possible. BPCA reserves the right to terminate the Contract or Contracts at any time, with or without cause, in accordance with the terms of the Contract. BPCA's Standard Form of Contract is attached as Exhibit C.

### **IV. GENERAL REQUIREMENTS**

#### **A. *Minimum Qualification Requirements***

The following are the minimum qualification requirements for this RFP. Proposals that fail to meet these requirements will be rejected.

- 1) The Proposer must be lawfully authorized to do business in the State of New York.
- 2) The Proposer (or one or more of its principals or subcontractors) must have at least five (5) years of experience performing marine repair work.

#### **B. *MBE/WBE/SDVOB Participation, Joint Ventures, and Sub-contracting Goals***

Contractor requirements and procedures for business participation opportunities for New York State certified MBEs/WBEs/SDVOBs and equal employment opportunity requirements relating to minority group members and women are attached as Exhibit B. For questions related to MBE/WBE/SDVOB participation, joint

ventures and sub-contracting goals *only*, please contact the “MBE/WBE/SDVOB Designated Contact” Mr. Anthony Peterson at [Anthony.peterson@bpca.ny.gov](mailto:Anthony.peterson@bpca.ny.gov) or 212-417-2337.

### ***C. Restricted Period***

New York State’s State Finance Law Sections 139-j and 139-k apply to this RFP, restricting Proposers’ contacts with BPCA. Proposers are restricted from making any contact (defined as oral, written, or electronic communications with BPCA under circumstances where a reasonable person would infer that a communication was intended to influence BPCA’s conduct or decision with respect to a procurement) relating to this RFP with anyone other than the Designated Contact, as specified in Section III.A., or MBE/WBE/SDVOB Designated Contact, as specified in Section IV.B., from the time of Proposer’s receipt of notice of this RFP through the date of the Final Award as defined in BPCA’s Procurement Guidelines (the “Restricted Period”). BPCA employees must record certain contacts during the Restricted Period, including, but not limited to, any oral or written communications that could reasonably be seen as intended to influence BPCA’s conduct or award of this RFP. Upon notice of an improper contact, BPCA shall make a determination regarding the Proposer’s eligibility to continue participating in this RFP.

### ***D. Submission of Proposals***

**Proposals must be received by BPCA no later than 5:00 p.m. on April 2, 2019**

Each Proposer must submit six (6) paper copies and a PDF version (via CD-ROM or flash drive) in a sealed package clearly marked “Proposal Enclosed – Phase 6 Pile Remediation – Marine Construction Services Project” to the Designated Contact by messenger, overnight courier or certified mail to the following address:

Michael LaMancusa  
Battery Park City Authority  
200 Liberty Street, 24<sup>th</sup> Floor  
New York, NY 10281

BPCA is not responsible for late Proposals, no matter the cause. Proposals *must* arrive at the time and place specified herein and be time stamped by BPCA by the Due Date. Please leave ample time for building security. Late Proposals will NOT be accepted. Proposals submitted by fax or electronic transmission will NOT be accepted. A Proposer may, after submitting a Proposal, amend its Proposal by submitting an amended Proposal, clearly labeled “Amended Proposal – Phase 6 Pile Remediation – Marine Construction Services Project,” as long as the amended Proposal is submitted by the Due Date.

## **V. PROPOSAL FORMAT AND CONTENTS**

### ***A. Proposal Format***

The Proposal must:

- Be printed on 8½” x 11” paper; and
- Have numbered pages.

### ***B. Proposal Content***

In addition to the separately sealed Cost Proposal, as described in Section VIII (below), each Proposal must include the following in the order listed:

- 1) Cover Letter, signed by a person within the firm who is authorized to bind the Proposer, which includes representations that:
  - (a) Except as disclosed in the Proposal, no officer or employee of the Proposer is directly or indirectly a party to, or in any other manner interested financially or otherwise, in this RFP;
  - (b) Proposer satisfies all of the minimum qualification requirements in Section IV.A; and,
  - (c) Proposer has reviewed BPCA's Standard Form of Contract, attached as Exhibit C to this RFP, and either has no objections or has detailed their objections in an appendix to their Proposal.
- 2) Executive Summary.
- 3) Responses to the Questions as well as all of the Information Required (Sections VI.A. and B.).
- 4) Required Attachments (Section VI.C.).

**BPCA reserves the right to reject any Proposals that fail to include any required item described in this Section V. B., including Cover Letters that are unsigned or that fail to include each of the above representations (including an appendix, if applicable).**

## **VI. INFORMATION REQUIRED**

### **A. *Questions and Information Sought Relating to the Work***

- 1) Describe your firm's background, services, size, and history – as these factors may be relevant to the Project – with an emphasis on marine construction experience at waterfront facilities within and adjacent to the rivers surrounding New York City.
- 2) Describe your firm's experience performing concrete pile jacketing.
- 3) Submit a description of your approach to the Project, which shall address your proposed procedures, methodology, sequencing, impact mitigation, and schedule for the Project. Please include a description of your proposed means of accessing the various points within the Project Site.
- 4) Describe your approach to staffing the Project, and identify all staff members and sub-contractors that you intend to involve in the Work. List each key member of the team that you intend to assign to this engagement, and include for each listed individual: (a) area(s) of specialization; (b) title and/or position within your firm; (c) years and type(s) of relevant experience; and (d) the services to be performed.
- 5) Describe any recent developments in technology or methodologies that may inform or affect your firm's approach to the Project.
- 6) Identify the person who will be the lead project manager (the "Lead PM") and primary contact in providing services to BPCA, and identify any other persons who will be listed as a "key person" in any contract with BPCA.
- 7) Describe your proposed team's experience (including both direct contract work and work performed under sub-contracts) with similar work for other public entities, with an emphasis on New York State and New York City public entities. Include contract dates, the nature of the work performed, the contracting agency, the contract number (if known), and the supervisor for each of them.

- 8) Clearly identify any information in your Proposal that you believe to be confidential and exempt from FOIL, and state the reasons. Please note that this question is for informational purposes only, and BPCA will determine, in its sole discretion, whether requested documents are exempt from disclosure under FOIL.
- 9) Identify any and all exceptions taken to BPCA's standard form of contract, attached as Exhibit C, explaining the reasons for such exceptions. Such exceptions must be detailed in an appendix to your Proposal labeled, "Appendix: Objections to BPCA Form of Contract." No exceptions to the Contract will be considered by BPCA after submission of the Proposals. BPCA maintains the right to reject Proposals based on non-conformance with the standard form of Contract.
- 10) Provide at least three (3) client references for whom your firm has performed similar work to that requested in this RFP. For each client, describe the project, the project's date, services performed, and the name, address, and telephone number for a person at the client's firm who is familiar with such work.

***B. Questions and Information Sought Relating to Proposer's Firm & Eligibility***

- 1) Within the past three (3) years, have there been any significant developments in your firm such as changes in ownership or restructuring? Do you anticipate any significant changes in the near future? If so, please describe.
- 2) How does your firm identify and manage conflicts of interest?
- 3) Are there any potential conflict of interest issues posed by your firm's performance of the Work on behalf of BPCA?
- 4) Has your firm, or have any of the firm's partners/employees, been disciplined or censured by any regulatory body within the last five (5) years? If so, please describe the relevant facts.
- 5) Within the last five (5) years, has your firm, or a partner or employee in your firm, been involved in litigation or other legal proceedings relating to the provision of professional services? If so, please provide an explanation and the current status or disposition of the matter.
- 6) List any professional or personal relationships your firm's employees may have with BPCA's Board Members and/or employees, a list of which is attached as Exhibit I.
- 7) If selected, will your firm assign any person to this engagement who was previously an employee of BPCA or BPCPC? If so, please: i) identify when (month and year) that person's employment at BPCA/BPCPC terminated, and ii) describe that person's involvement, if any, with matters related to this RFP during his/her employment at BPCA/BPCPC.
- 8) In the past five (5) years, have any public sector clients terminated their working relationship with your firm? If so, please provide a brief statement of the reasons. Provide the name of the client and provide a contact person, address and telephone number.

***C. Required Attachments***

- 1) Mandatory Forms:

Each Proposal must include a completed copy of all “Mandatory Forms” found at: <http://bpca.ny.gov/wp-content/uploads/2015/03/Vendor-ResponsibilityQuestionnaire.pdf>.

The Mandatory Forms include the following:

- a) New York State Standard Vendor Responsibility Questionnaire, notarized and signed by the individual(s) authorized to contractually bind the Proposer, indicating the signer’s title/position within the firm.\*
- b) State Finance Law § 139 Form 1, signed by the individual(s) authorized to contractually bind the Proposer.\*
- c) W-9 form.
- d) Statement of Non-Collusion.
- e) MBE/WBE/SDVOB Utilization Plans. Please note that all such plans must be submitted even if Proposer is a MBE/WBE/SDVOB.

\*In addition to the copy required to be included in each bound Proposal, Proposers must additionally provide one (1) unbound, completed original, with ink signatures, of the New York State Standard Vendor Responsibility Questionnaire and SFL 139 Form 1.

- 2) Response to the question regarding the use of New York State businesses set forth in Section XII.
- 3) Completed MBE/WBE & EEO Policy Statement and MBE/WBE Diversity Practices Questionnaire (attached as part of Exhibit B).
- 4) Financial Statements:

Provide a copy of your firm’s most recent Audited Financial Statements (within the last year). In the event you do not have audited financials you must provide a statement to that effect with your proposal, and summary financial information for the calendar year most recently ended.

- 5) Acknowledgement of Addenda:

Attach a completed and signed Acknowledgement of Addenda Form, attached as Exhibit H acknowledging receipt of all addenda to this RFP, if any, issued by BPCA before the Due Date. Addenda are posted by BPCA as necessary and can be found on the BPCA website at [www.bpca.ny.gov](http://www.bpca.ny.gov). It is the responsibility of each Proposer to check the BPCA website for addenda and to review addenda prior to submitting any proposal in response to this RFP.

- 6) Appendices:

- a) Attach professional biographies for all Management and Project Managers identified in your Proposal.
- b) Attach a project schedule showing completion dates for completion of all Work.

## **VII. INSURANCE AND BONDING REQUIREMENTS**

### ***A. General Requirements***

The selected Proposer will be required to obtain and provide proof of the types and amounts of insurance listed below: (i) as a condition precedent to the award of the contract for the work; and (ii) continuing throughout the entire term of the Contract. The insurance policies listed below must also conform to the applicable terms of the Contract, as shown in BPCA's Standard Form of Contract, attached as Exhibit C.

The total cost of the required insurance listed in paragraphs B) and C) below must be incorporated into the Cost Proposal. The additional insured protection afforded BPCA, BPCPC, and the State of New York must be on a primary and non-contributory basis. All policies must include a waiver of subrogation in favor of BPCA, BPCPC, and the State of New York, and no policies may contain any limitations / exclusions for New York Labor Law claims.

All of the carriers that provide the below required insurance must provide direct written notice of cancellation or non-renewal to BPCA, BPCPC, and the State of New York at least 30 days before such cancellation or non-renewal is effective, except for cancellations due to non-payment of premium, in which case 10 days written notice is acceptable.

### ***B. Insurance Requirements for the Selected Proposer***

- **Commercial General Liability Insurance**, written on ISO Form CG 00 001 or its equivalent and with no modification to the contractual liability coverage provided therein, shall be provided on an occurrence basis and limits shall not be less than:
  - \$1,000,000 per occurrence
  - \$2,000,000 General Aggregate, which must apply on a per project basis
  - \$2,000,000 Products / Completed Operations Aggregate

BPCA, BPCPC, and the State of New York must be protected as additional insureds on ISO Form CG 2010 (11/85) or its equivalent on policies held by the selected Proposer and any of its subcontractors. Should the Proposer's work include construction activities of any kind, then the Proposer must maintain Products / Completed Operations coverage for no less than three years after the construction work is completed, and continue to include Additional Insured protection for BPCA, BPCPC and the State of New York for the prescribed timeframe. When providing evidence of insurance the Proposer must include a completed Acord 855 NY form.

- **Automobile Liability Insurance** with a Combined Single Limit of not less than \$1,000,000. Coverage must apply to the Proposer's owned, hired, and non-owned vehicles and protect BPCA, BPCPC, and the State of New York as additional insured.
- **Workers' Compensation, Employer's Liability, and Disability Benefits** shall not be less than statutory limits, including United States Longshore and Harbor Workers Act coverage.
- **Umbrella Liability Insurance** at a limit not less than \$5,000,000 per occurrence and in the aggregate. BPCA, BPCPC, and the State of New York must be protected as additional insureds on policies held by the selected Proposer and any of its subcontractors.

- If the Proposer's work will include the use of any watercraft, then **Comprehensive Marine Liability Insurance** must be maintained at a limit of not less than \$1,000,000 per occurrence and include the following coverage:
  - Protection and Indemnity
  - General Liability
  - Pollution Liability

BPCA, BPCPC, and the State of New York must be protected as additional on policies held by the selected Proposer and any of its subcontractors.

- **Builder's Risk / Installation Floater Insurance** in an amount not less than 100% of the total contract price for the Work as provided for in the Contract. Coverage must be written on ISO Special Form CP 10 30 04 02 or its equivalent on a completed value non-reporting basis and provide coverage for the Proposer, all subcontractors, BPCA, BPCPC, and the State of New York. Coverage must also include an "agreed amount" provision which eliminates any coinsurance provision, and include BPCA as loss payee.

### *C. Insurance Requirements for all Subcontractors*

Any subcontractor(s) utilized by the selected Proposer will be required to obtain the types and amounts of insurance listed below: (i) as a condition of commencing any Work; and (ii) continuing throughout the duration of such subcontractor's Work. The insurance policies listed below must also conform to the applicable terms of the Contract, as shown in BPCA's Standard Form of Contract, attached as Exhibit C.

- **Commercial General Liability Insurance**, written on ISO Form CG 00 01 or its equivalent and with no modification to the contractual liability coverage provided therein, shall be provided on an occurrence basis and limits shall not be less than:
  - \$1,000,000 per occurrence
  - \$2,000,000 general aggregate which must apply on a per location / per project basis
  - \$2,000,000 products/completed operations aggregate

BPCA, BPCPC, and the State of New York must be protected as additional insureds on ISO Form CG 2010 (11/85) or its equivalent on policies held by all subcontractors. Should the subcontractor's work include construction activities of any kind then the subcontractor must maintain Products / Completed Operations coverage for no less than three years after the construction work is completed and continue to include additional insured protection for BPCA, BPCPC & the State of New York for the prescribed timeframe. When providing evidence of insurance the subcontractor must include a completed Acord 855 NY form.

- **Automobile Liability Insurance** with a combined single limit of not less than \$1,000,000. Coverage must apply to the subcontractor's owned, hired, and non-owned vehicles and protect BPCA, BPCPC, and the State of New York as additional insureds.

- **Workers' Compensation, Employer's Liability, and Disability Benefits** shall not be less than statutory limits, including United States Longshore and Harbor Workers Act coverage as applicable to the operations of the subcontractor.
- **Subcontractors will also be required to obtain all other insurances listed in Section VII.(B) unless otherwise approved in writing by BPCA prior to commencement of any Subcontractor's work.**

#### ***D. Bonding***

A performance and payment is required. Provide a letter from your surety(ies) stating that you are able to provide a payment and performance bond, as required by the Standard Form of Contract (Exhibit C).

### **VIII. COST PROPOSAL: FORMAT AND REQUIRED INCLUSIONS**

Each Cost Proposal must state a lump-sum cost for the performance of all Work and include each of the following:

- 1) Cost Proposal in the form, attached hereto as Exhibit D;
- 2) Schedule of Values in the form, attached hereto as Exhibit E and;
- 3) Labor rates in the form attached hereto as Exhibit F.

The Cost Proposal must be submitted in its own separate, sealed envelope within the sealed package containing all other Proposal documents. Please provide six (6) copies of the Cost Proposal.

### **IX. SELECTION PROCESS**

#### ***A. Evaluation***

Each timely-submitted Proposal will be reviewed for compliance with the form and content requirements of this RFP. A committee of BPCA employees selected by BPCA (the "Committee") will then review and evaluate the Proposals in accordance with the evaluation criteria set forth below. While only Committee members will score the evaluation criteria, the Committee may consult an outside expert for advisement on the evaluation of matters requiring technical expertise. Before final selection, BPCA must determine that the proposed selected Proposer is responsible, in accordance with applicable law and BPCA's Procurement Guidelines, which may be viewed at: <http://bpca.ny.gov/public-information/>.

#### ***B. Interviews***

BPCA reserves the right to decide whether to interview any or all of the Proposers. The Committee may conduct interviews for many reasons, including to further assess a Proposer's ability to perform the Work or provide specific services, or to seek information related to any other evaluation criteria. The proposed Lead PM, as well all other key personnel proposed to perform the Work, must be available to participate in the interview.

#### ***C. Evaluation Criteria for Selection.***

Selection of a Proposer will be based on the following criteria:



1) Technical Evaluation:

- Expertise and experience with relevant in-water marine construction work, especially work at waterfront facilities in New York City and work that includes concrete pile jacketing 35%
- Approach to work, including methodology, phasing, area impacts, and schedule 30%
- Proposed Project staffing, including subcontractors 25%
- Response to MBE/WBE Diversity Practices Questionnaire 10%

2) Cost Proposal evaluation.

***D. Basis for Contract Award***

The Contract will be awarded to the highest technically rated Proposer whose Proposal is determined to be responsive and in the best interests of BPCA, subject to a determination that the Cost Proposal is fair, reasonable, and provides the best value to BPCA given the requirements of the project.

**X. NON-COLLUSION**

By submitting a Proposal, each Proposer warrants and represents that any ensuing Contract has not been solicited or secured directly or indirectly in a manner contrary to the laws of the State of New York, and that said laws have not been violated and shall not be violated as they relate to the procurement or the performance of the Contract by any conduct, including the paying or giving of any fee, commission, compensation, gift, or gratuity or consideration of any kind, directly or indirectly, to any member of the board of directors, employee, officer or official of BPCA.

**XI. IRAN DIVESTMENT ACT**

By submitting a Proposal or by assuming the responsibility of any Contract awarded hereunder, each Proposer certifies that it is not on the "Entities Determined To Be Non-Responsive Bidders/Offerers Pursuant to The New York State Iran Divestment Act of 2012" list ("Prohibited Entities List") posted on the New York State Office of General Services website at: <http://www.ogs.ny.gov/about/regs/docs/ListofEntities.pdf> and further certifies that it will not utilize any subcontractor/consultant that is identified on the Prohibited Entities List on this Contract. The selected Proposer agrees that should it seek to renew or extend any Contract awarded hereunder, it must provide the same certification at the time the Contract is renewed or extended. The selected Proposer also agrees that any proposed assignee of the Contract will be required to certify that it is not on the Prohibited Entities List before BPCA may approve a request for assignment of the Contract.

During the term of any Contract awarded hereunder, should BPCA receive information that a person (as defined in State Finance Law §165-a) is in violation of the above-referenced certifications, BPCA will review such information and offer the person an opportunity to respond. If the person fails to demonstrate that it has ceased its engagement in the investment activity which is in violation of the New York State Iran Divestment Act of 2012 within 90 days after the determination of such violation, then BPCA shall take such action as may be appropriate and provided for by law, rule, or contract, including, but not limited to, seeking compliance, recovering damages, or declaring the selected Proposer in default of the awarded Contract.

BPCA reserves the right to reject any request for renewal, extension, or assignment for an entity that appears on the Prohibited Entities List prior to the renewal, extension, or assignment of the Contract, and to pursue a responsibility review with the selected Proposer should it appear on the Prohibited Entities List hereafter.

## **XII. ENCOURAGING USE OF NEW YORK STATE BUSINESSES IN CONTRACT PERFORMANCE**

New York State businesses have a substantial presence in State contracts and strongly contribute to the economies of the state and the nation. In recognition of their economic activity and leadership in doing business in New York State, Proposers for this Contract for commodities, services or technology are strongly encouraged and expected to consider New York State businesses in the fulfillment of the requirements of the Contract. Such partnering may be as subcontractors, suppliers, protégés or other supporting roles.

Proposers are strongly encouraged, to the maximum extent practical and consistent with legal requirements, to use responsible and responsive New York State businesses in purchasing commodities that are of equal quality and functionality and in utilizing services and technology. Furthermore, Proposers are reminded that they must continue to utilize small, minority and women-owned businesses, consistent with current State law.

Utilizing New York State businesses in State contracts will help create more private sector jobs, rebuild New York's infrastructure, and maximize economic activity to the mutual benefit of the contractor and its New York State business partners. New York State businesses will promote the contractor's optimal performance under the Contract, thereby fully benefiting the public sector programs that are supported by associated procurements.

Public procurements can drive and improve the State's economic engine through promotion of the use of New York businesses by its contractors. The State therefore expects bidders/proposers to provide maximum assistance to New York businesses in their contracts. The potential participation by all kinds of New York businesses will deliver great value to the State and its taxpayers.

Proposers can demonstrate their commitment to the use of New York State businesses by responding to the question below. Each proposer must include a response to this question with their proposal. Please note that a "yes" response requires supporting information. If yes, identify New York State businesses that will be used and attach identifying information.

Will New York State businesses be used in the performance of this contract?      ☐ Yes      ☐ No

## **EXHIBIT A**

### **PROJECT DESCRIPTION, SCHEDULE, GENERAL REQUIREMENTS, AND SCOPE OF WORK**

#### ***I.     Background and Project Description***

Located at Manhattan's southwestern tip, Battery Park City is a 92-acre land tract that was created in the 1970s by dredging organic river soils and filling in a portion of the Hudson River with hydraulic sand fill. This landfill is laterally retained using a combination of cellular steel sheet piles, crushed quarry stone dike, granular filter materials, timber sheeting bulkhead, and a relieving platform. The Battery Park City Pedestrian Esplanade (the "Esplanade") relieving platform is supported by approximately three-thousand, one-hundred (3,100) 20"x20" pre-stressed concrete piles. This Project will entail the remediation of approximately five hundred sixty-one (561) piles, in three areas of Battery Park City, as is further described below. The Work must be performed in compliance with permits issued by the US Army Corps of Engineers ("ACOE") and the New York State Department of Environmental Conservation ("DEC"). The ACOE and DEC permits are attached hereto as Exhibit H (the "Permits").

The Esplanade's relieving platform (the "Platform"), which is approximately 7,500 linear feet long, runs the entire length of the western perimeter of Battery Park City. It is a concrete platform deck composed of 7 ½-inch thick pre-cast, pre-stressed concrete planks that are integrated with 7½-inch thick reinforced cast-in-place concrete, spanning between two cast-in-place concrete pile-supported bents that are located approximately 23 feet on center. In most areas of the Esplanade, the Platform is 70 feet wide, but it narrows to between 43 feet and 50 feet in the North and South Cove areas, as well as in the North Platform area adjacent to Stuyvesant High School. The supporting piles are 20-inch pre-cast, pre-stressed concrete squares with a design axial capacity of 110 tons. The Platform's landside edge has a continuous cast-in-place reinforced concrete beam, measuring 3-feet wide by 4-to-4½-feet high that is supported by vertical and battered piles. Vertical timber sheeting lines the back (inboard) edge of the Platform's perimeter. A pre-cast concrete seawall skirt along the western boundary protects the piles, Platform, and bulkhead. The Platform is divided into sections, or "bays," that span between each pile bent.

In 2007, BPCA launched a multi-year program of inspection, maintenance, repair, and encapsulation of the concrete piles that support the Platform. The program's first five (5) phases addressed the concrete piles in several areas of the Esplanade, including by the North Cove Marina; the Ferry Terminal, on the north side of North Cove Marina; the Winter Garden; and other sections of the northern and southern areas of the Esplanade.

This Project will address the following three (3) locations in Battery Park City:

- (1) The Esplanade immediately north of South Cove, Bents 13-43, approximately 258 piles ("Project Area 1");
- (2) The Esplanade in Rockefeller Park (just north of the ferry terminal), Bents 93-116, approximately 197 piles ("Project Area 2"); and,
- (3) The North Esplanade north of Stuyvesant High School, Bents 1-28, approximately 106 piles ("Project Area 3")

Drawings of the three Project Areas and the affected piles are attached hereto as Exhibit G.

## **II. Project Schedule & Sequencing Parameters**

The U.S. Fish and Wildlife Service permits applicable to this Work allow for in-water work to be performed from May 1, 2019 through October 31, 2019 (the “In-Water Work Season”), with the possibility of a thirty (30) day extension to November 30, 2019 if certain conditions are met and necessary approval is obtained. This Project must be performed during the 2019 In-Water Work Season.

**Due to planned public events in the Hudson River and other area construction activities in the immediate vicinity scheduled for the upcoming summer 2019 season, it is possible that BPCA will require the selected Proposer to temporarily relocate one or more of its barges during two specific time frames: in the south Esplanade area (approximately late May); and the Rockefeller Park Esplanade (approximately mid-June). Proposers should account for such possible interruptions (up to two (2) days each) in creating their work sequences and schedules.**

## **III. General Project Requirements**

- a) The selected Proposer shall provide its own furnished construction trailer space, to be located on a barge in the Hudson River for each active Project Area of the Work. On each barge, the selected Proposer shall allocate space comprising no less than one hundred (100) square feet for use by the Project’s construction manager as separate, furnished, and secured office space. The selected Proposer must provide basic office furnishings for the construction manager space but is not required to provide computers or other electronic equipment. In addition, the selected Proposer must allocate within each construction trailer sufficient room for a changing area to be utilized by the construction manager’s dive personnel and for storage of the construction manager’s diving equipment.
- b) Prior to commencing the Work, the selected Proposer shall prepare for approval by BPCA, a detailed, overall site logistics plan for the three Project Areas included in the Project, including detailed layouts and plans for:
  - 1. staging;
  - 2. materials storage;
  - 3. batching/pumping;
  - 4. performance of work; and,
  - 5. security and safety (for the public in accordance with all applicable New York City Department of Buildings regulations)

BPCA’s written approval of the Proposer’s site logistics plan is required before the selected Proposer commences any work at the Project Site.

- c) All barges are to be spudded or anchored in place. Mooring to the Esplanade structure will not be permitted.
- d) It is preferred that all deliveries be made by water. For deliveries required to be made by land, BPCA must be notified with a sufficient amount of lead time to allow for necessary security access (at least twenty-four (24) hours).

- e) Upon the completion of each phase of the Project, the selected Proposer must remove all staging equipment/fencing, and return the Project site to its original condition.

#### **IV. Scope of Work**

The selected Proposer must provide BPCA with all labor, equipment, tools, and materials necessary to perform the Project in accordance with the Drawing and Specifications attached hereto as Exhibit G and the Permits attached hereto as Exhibit H (collectively, the “Construction Documents”).

In particular, the selected Proposer must:

- a) Excavate each pile two feet (2') below mudline, or, if it is not possible to excavate the pile to a full two feet (2') depth, then as near to two feet (2') below mudline as possible.
- b) Power-wash the entire exposed surface, including the area below the mudline, within the excavation area.
- c) Install fiberglass-reinforced polymer (FRP) jackets and applicable formwork with port holes installed on alternating faces of the pile in order to maintain a constant tremie. All jackets must be installed according to the product manufacturer's recommendations for placement.
- d) Pump epoxy grout in accordance with the Construction Documents.
- e) Install top seals as detailed in the Construction Documents.
- f) Backfill the excavated area at the mudline.
- g) Leave the FRP jackets in place, while removing all temporary forms, materials, and lines.

## **EXHIBIT B**

### **CONTRACTOR REQUIREMENTS AND PROCEDURES FOR PARTICIPATION BY NEW YORK STATE-CERTIFIED MBEs/WBEs/SDVOBs AND EQUAL EMPLOYMENT OPPORTUNITIES FOR MINORITY GROUP MEMBERS AND WOMEN**

#### **NOTE REGARDING THIS SOLICITATION:**

**This solicitation has been granted a waiver of MWBE goals. There will be no MWBE goals assigned to the contract issued pursuant to this solicitation and the requirements for complying with MWBE goals do not apply to this solicitation.**

#### **NEW YORK STATE LAW**

Pursuant to New York State Executive Law Article 15-A and Parts 140-145 of Title 5 of the New York Codes, Rules and Regulations BPCA is required to promote opportunities for the maximum feasible participation of New York State-certified MBEs/WBEs (collectively, "MWBE(s)") and the employment of minority group members and women in the performance of BPCA contracts. Pursuant to New York State Executive Law Article 17-B and 9 NYCRR §252, BPCA recognizes its obligation under the law to promote opportunities for maximum feasible participation of certified SDVOBs.

#### **Business Participation Opportunities for MWBEs**

For purposes of this solicitation, BPCA hereby establishes an overall goal for total MWBE participation of 0% percent based on the current availability of MWBEs. Since no MWBE goals are established for this solicitation, the following language for complying with MWBE goals is not applicable. A contractor ("Contractor") on any contract resulting from this procurement ("Contract") must document its good faith efforts to provide meaningful participation by MWBEs as subcontractors and suppliers in the performance of the Contract. To that end, by submitting a response to this RFP, the Proposer agrees that BPCA may withhold payment pursuant to any Contract awarded as a result of this RFP pending receipt of the required MWBE documentation. The directory of MWBEs can be viewed at: <https://ny.newnycontracts.com>. For guidance on how BPCA will evaluate a Contractor's "good faith efforts," refer to 5 NYCRR § 142.8.

The Proposer understands that only sums paid to MWBEs for the performance of a commercially useful function, as that term is defined in 5 NYCRR § 140.1, may be applied towards the achievement of the applicable MWBE participation goal. The portion of a contract with an MWBE serving as a supplier that shall be deemed to represent the commercially useful function performed by the MWBE shall be 60 percent of the total value of the contract. The portion of a contract with an MWBE serving as a broker that shall be deemed to represent the commercially useful function performed by the MWBE shall be the monetary value for fees, or the markup percentage, charged by the MWBE.

In accordance with 5 NYCRR § 142.13, the Proposer further acknowledges that if it is found to have willfully and intentionally failed to comply with the MWBE participation goals set forth in a Contract resulting from this RFP, such finding constitutes a breach of contract and BPCA may withhold payment as liquidated damages.

Such liquidated damages shall be calculated as an amount equaling the difference between: (1) all sums identified for payment to MWBEs had the Contractor achieved the contractual MWBE goals; and (2) all sums actually paid to MWBEs for work performed or materials supplied under the Contract.

By submitting a bid or proposal, a Proposer agrees to demonstrate its good faith efforts to achieve the applicable MWBE participation goals by submitting evidence thereof through the New York State Contract System ("NYSCS"), which can be viewed at <https://ny.newnycontracts.com>, provided, however, that a Proposer may arrange to provide

such evidence via a non-electronic method by contacting Mr. Anthony Peterson at [Anthony.peterson@bpca.ny.gov](mailto:Anthony.peterson@bpca.ny.gov) or 212-417-2337. Please note that the NYSCS is a one-stop solution for all of your MBE/WBE and Article 15-A contract requirements. For additional information on the use of the NYSCS to meet the Proposer's MBE/WBE requirements, please see the attached MBE/WBE guidance from the New York State Division of Minority and Women's Business Development, "Your MWBE Utilization and Reporting Responsibilities Under Article 15-A."

Additionally, a Proposer will be required to submit the following documents and information as evidence of compliance with the foregoing:

- A. An MWBE Utilization Plan with their bid or proposal. Any modifications or changes to an accepted MWBE Utilization Plan after the Contract award and during the term of the Contract must be reported on a revised MWBE Utilization Plan and submitted to BPCA for review and approval.
- B. BPCA will review the submitted MWBE Utilization Plan and advise the Proposer of BPCA acceptance or issue a notice of deficiency within 30 days of receipt.
- C. If a notice of deficiency is issued, the Proposer will be required to respond to the notice of deficiency within seven (7) business days of receipt by submitting to Mr. Anthony Peterson at BPCA, by email at [Anthony.peterson@bpca.ny.gov](mailto:Anthony.peterson@bpca.ny.gov), a written remedy in response to the notice of deficiency. If the written remedy that is submitted is not timely or is found by BPCA to be inadequate, BPCA shall notify the Proposer and direct the Proposer to submit, within five (5) business days, a request for a partial or total waiver of MWBE participation goals. Failure to file the waiver form in a timely manner may be grounds for disqualification of the bid or proposal.
- D. BPCA may disqualify a Proposer as being non-responsive under the following circumstances:
  - 1) If a Proposer fails to submit an MWBE Utilization Plan;
  - 2) If a Proposer fails to submit a written remedy to a notice of deficiency;
  - 3) If a Proposer fails to submit a request for waiver; or
  - 4) If BPCA determines that the Proposer has failed to document good faith efforts.

The successful Proposer will be required to attempt to utilize, in good faith, any MBE or WBE identified within its MWBE Utilization Plan, during the performance of the Contract. Requests for a partial or total waiver of established goal requirements made subsequent to Contract Award may be made at any time during the term of the Contract to BPCA, but must be made no later than prior to the submission of a request for final payment on the Contract.

The successful Proposer will be required to submit a quarterly M/WBE Contractor Compliance & Payment Report to BPCA, by the 10<sup>th</sup> day following each end of quarter over the term of the Contract documenting the progress made toward achievement of the MWBE goals of the Contract.

### **Business Participation Opportunities for SDVOBs**

For purposes of this solicitation, BPCA hereby establishes an overall goal of 6% for SDVOB participation. A Proposer must document good faith efforts to provide meaningful participation by SDVOBs as subcontractors or suppliers in the performance of the Contract and Proposer agrees that BPCA may withhold payment pending receipt of the required SDVOB documentation. The directory of New York State Certified SDVOBs can be viewed at: [http://www.ogs.ny.gov/Core/docs/CertifiedNYS\\_SDVOB.pdf](http://www.ogs.ny.gov/Core/docs/CertifiedNYS_SDVOB.pdf). For guidance on how BPCA will determine a Contractor's "good faith efforts," refer to 9 NYCRR §252.2(f)(2).

In accordance with 9 NYCRR §252.2(s), the Proposer acknowledges that if it is found to have willfully and intentionally failed to comply with the SDVOB participation goals set forth in the Contract, such finding constitutes a breach of Contract and Contractor shall be liable for damages as specified in the Contract.

Such damages shall be calculated based on the actual cost incurred by BPCA related to BPCA's expenses for personnel, supplies and overhead related to establishing, monitoring and reviewing certified SDVOB programmatic goals.

- A. Additionally, a Proposer agrees to submit a Utilization Plan with their bid or Proposal as evidence of compliance with the foregoing. Any modifications or changes to the Utilization Plan after the Contract award and during the term of the Contract must be reported on a revised Utilization Plan and submitted to BPCA.
- B. BPCA will review the submitted Utilization Plan and advise the Proposer of BPCA's acceptance or issue a notice of deficiency within 30 days of receipt.
- C. If a notice of deficiency is issued, Proposer agrees that it shall respond to the notice of deficiency within seven (7) business days of receipt by submitting to Mr. Anthony Peterson at BPCA, by email at [Anthony.peterson@bpca.ny.gov](mailto:Anthony.peterson@bpca.ny.gov), a written remedy in response to the notice of deficiency. If the written remedy that is submitted is not timely or is found by BPCA to be inadequate, BPCA shall notify the Proposer and direct the Proposer to submit, within five (5) business days, a request for a partial or total waiver of SDVOB participation goals. Failure to file the waiver form in a timely manner may be grounds for disqualification of the bid or Proposal.
- D. BPCA may disqualify a Proposer as being non-responsive under the following circumstances:
  - 1) If a Proposer fails to submit a Utilization Plan;
  - 2) If a Proposer fails to submit a written remedy to a notice of deficiency;
  - 3) If a Proposer fails to submit a request for waiver; or
  - 4) If BPCA determines that the Proposer has failed to document good faith efforts.

The successful Proposer shall attempt to utilize, in good faith, any SDVOB identified within its Utilization Plan, during the performance of the Contract. Requests for a partial or total waiver of established goal requirements made subsequent to the Contract award may be made at any time during the term of the Contract to BPCA, but must be made no later than prior to the submission of a request for final payment on the Contract.

The successful Proposer is required to submit a Contractor's SDVOB Contractor Compliance & Payment Report to BPCA on a monthly basis over the term of the Contract documenting the progress made toward achievement of the SDVOB goals of the Contract.

### **Equal Employment Opportunity (EEO) Requirements**

By submission of a bid or proposal in response to this solicitation, the Proposer agrees with all of the terms and conditions of the attached MWBE Equal Employment Opportunity Policy Statement. The Proposer is required to ensure that it and any subcontractors awarded a subcontract for the construction, demolition, replacement, major repair, renovation, planning or design of real property and improvements thereon (the "Work"), except where the Work is for the beneficial use of the Proposer, undertake or continue programs to ensure that minority group members and women are afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status. For these purposes, equal opportunity shall apply in the areas of recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff, termination, and rates of pay or other forms of compensation. This requirement does not apply to: (i) work, goods, or services unrelated to the Contract; or (ii) employment outside New York State.



The Proposer will be required to submit a Minority and Women-owned Business Enterprise and Equal Employment Opportunity Policy Statement, Form # 4, to BPCA with its bid or proposal.

If awarded a Contract, Proposer shall submit a Workforce Utilization Report and shall require each of its Subcontractors to submit a Workforce Utilization Report, in such format as shall be required by BPCA on a monthly basis during the term of the Contract.

Pursuant to Executive Order #162, contractors and subcontractors will also be required to report the gross wages paid to each of their employees for the work performed by such employees on the contract utilizing the Workforce Utilization Report on a quarterly basis.

Further, pursuant to Article 15 of the Executive Law (the "Human Rights Law"), all other State and Federal statutory and constitutional non-discrimination provisions, the Contractor and sub-contractors will not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest.

**Please Note: Failure to comply with the foregoing requirements may result in a finding of non-responsiveness, non-responsibility and/or a breach of the Contract, leading to the withholding of funds, suspension or termination of the Contract or such other actions or enforcement proceedings as allowed by the Contract.**



## **Your MBE/WBE Utilization and Reporting Responsibilities Under Article 15-A**

The New York State Contract System (“NYSCS”) is your one stop tool compliance with New York State’s MBE/WBE Program. It is also the platform New York State uses to monitor state contracts and MBE/WBE participation.

### **GETTING STARTED**

To access the system, please login or create a user name and password at <https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp?TN=ny&XID=7562>. If you are uncertain whether you already have an account set up or still need to register, please send an email to the customer service contact listed on the Contact Us & Support page, or reach out to Mr. Anthony Peterson at [Anthony.peterson@bpca.ny.gov](mailto:Anthony.peterson@bpca.ny.gov) or 212-417-2337. For verification, in the email, include your business name and contact information.

### **VENDOR RESPONSIBILITIES**

As a vendor conducting business with New York State, you have a responsibility to utilize minority- and/or women-owned businesses in the execution of your contracts, per the MBE/WBE percentage goals stated in your solicitation, incentive proposal or contract documents. NYSCS is the tool that New York State uses to monitor MBE/WBE participation in state contracting. Through the NYSCS you will submit utilization plans, request subcontractors, record payments to subcontractors, and communicate with your project manager throughout the life of your awarded contracts.

There are several reference materials available to assist you in this process, but to access them, you need to first be registered within the NYSCS. Once you log onto the website, click on the **Help & Support** >> link on the lower left hand corner of the Menu Bar to find recorded trainings and manuals on all features of the NYSCS. You may also click on the **Help & Tools** icon at the top right of your screen to find videos tailored to primes and subcontractors. There are also opportunities available to join live trainings, read up on the “Knowledge Base” through the Forum link, and submit feedback to help improve future enhancements to the system. Technical assistance is always available through the **Contact Us & Support** link on the NYSCS website (<https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp?TN=ny&XID=7562>).

For more information, contact Mr. Anthony Peterson at [Anthony.peterson@bpca.ny.gov](mailto:Anthony.peterson@bpca.ny.gov) or 212-417-2337.

## MINORITY AND WOMEN-OWNED BUSINESS ENTERPRISES

### EQUAL EMPLOYMENT OPPORTUNITY (EEO) POLICY STATEMENT

#### MBE/WBE AND EEO POLICY STATEMENT

I, \_\_\_\_\_ (the "Contractor"), agree to adopt the following policies with respect to the project being developed at, or services rendered to, the Battery Park City Authority ("BPCA").

##### **MBE/WBE**

This organization will and will cause its contractors and subcontractors to take good faith actions to achieve the MBE/WBE contract participations goals set by the State for that area in which the State-funded project is located, by taking the following steps:

- (1) Actively and affirmatively soliciting bids for contracts and subcontracts from qualified State certified MBEs or WBEs, including solicitations to MBE/WBE contractor associations.
- (2) Requesting a list of State-certified MBEs/WBEs from BPCA and soliciting bids from these MBEs/WBEs directly.
- (3) Ensuring that plans, specifications, request for proposals and other documents used to secure bids will be made available in sufficient time for review by prospective MBEs/WBEs.
- (4) Where feasible, dividing the work into smaller portions to enhance participations by MBEs/WBEs and encourage the formation of joint venture and other partnerships among MBE/WBE contractors to enhance their participation.
- (5) Documenting and maintaining records of bid solicitation, including those to MBEs/WBEs and the results thereof. The Contractor will also maintain records of actions that its subcontractors have taken toward meeting MBE/WBE contract participation goals.
- (6) Ensuring that progress payments to MBEs/WBEs are made on a timely basis so that undue financial hardship is avoided, and that bonding and other credit requirements are waived or appropriate alternatives are developed to encourage MBE/WBE participation.

##### **EEO**

- (a) This organization will not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability or marital status, will undertake or continue existing diversity programs to ensure that minority group members are afforded equal employment opportunities without discrimination, and shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on State contracts.
- (b) This organization shall state in all solicitation or advertisements for employees that in the performance of the State contract all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex disability or marital status.
- (c) At the request of BPCA, this organization shall request that each employment agency, labor union, or authorized representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of this organization's obligations herein.
- (d) The Contractor shall comply with the provisions of the Human Rights Law, all other State and Federal statutory and constitutional non-discrimination provisions. The Contractor and subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest.
- (e) This organization will include the provisions of sections (a) through (d) of this agreement in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each subcontractor as to work in connection with the State contract.

Agreed to this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

By \_\_\_\_\_

Print: \_\_\_\_\_ Title: \_\_\_\_\_

\_\_\_\_\_ is designated as the Consultant's Minority Business Enterprise Liaison responsible for administering the Minority and Women-Owned Business Enterprises - Equal Employment Opportunity (MBE/WBE - EEO) program.

**MBE/WBE Contract Goals**

N/A Minority and Women's Business Enterprise Participation

\_\_\_\_% Minority Business Enterprise Participation

\_\_\_\_% Women's Business Enterprise Participation

**EEO Contract Goals** (if applicable)

\_\_\_\_% Minority Labor Force Participation

\_\_\_\_% Female Labor Force Participation

\_\_\_\_\_  
(Authorized Representative)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## Diversity Practices Questionnaire

I, \_\_\_\_\_, as \_\_\_\_\_ (title) of \_\_\_\_\_ company (the "Company"), swear and/or affirm under penalty of perjury that the answers submitted to the following questions are complete and accurate to the best of my knowledge:

1. Does your Company have a Chief Diversity Officer or other individual who is tasked with supplier diversity initiatives? Yes or No

If Yes, provide the name, title, description of duties, and evidence of initiatives performed by this individual or individuals.

2. What percentage of your Company's gross revenues (from your prior fiscal year) was paid to New York State certified MBEs/WBEs as subcontractors, suppliers, joint-ventures, partners or other similar arrangement for the provision of goods or services to your Company's clients or customers?

3. What percentage of your Company's overhead (i.e. those expenditures that are not directly related to the provision of goods or services to your Company's clients or customers) or non-contract-related expenses (from your prior fiscal year) was paid to New York State certified MBEs/WBEs as suppliers/contractors?<sup>1</sup>

4. Does your Company provide technical training<sup>2</sup> to MBEs/WBEs? Yes or No

If Yes, provide a description of such training which should include, but not be limited to, the date the program was initiated, the names and the number of MBEs/WBEs participating in such training, the number of years such training has been offered and the number of hours per year for which such training occurs.

5. Is your Company participating in a government approved M/WBE mentor-protégé program?

If Yes, identify the governmental mentoring program in which your Company participates and provide evidence demonstrating the extent of your Company's commitment to the governmental mentoring program.

6. Does your Company include specific quantitative goals for the utilization of MBEs/WBEs in its non-government procurements? Yes or No

If Yes, provide a description of such non-government procurements (including time period, goal, scope and dollar amount) and indicate the percentage of the goals that were attained.

7. Does your Company have a formal M/WBE supplier diversity program? Yes or No

If Yes, provide documentation of program activities and a copy of policy or program materials.

8. Does your Company plan to enter into partnering or subcontracting agreements with New York State certified MBEs/WBEs if selected as the successful Proposer? Yes or No

If Yes, complete the attached Utilization Plan

---

<sup>1</sup> Do not include onsite project overhead.

<sup>2</sup> Technical training is the process of teaching employees how to more accurately and thoroughly perform the technical components of their jobs. Training can include technology applications, products, sales and service tactics, and more. Technical skills are job-specific as opposed to soft skills, which are transferable.

All information provided in connection with the Diversity Practices Questionnaire is subject to audit, and any fraudulent statements are subject to criminal prosecution and debarment.

Signature of  
Owner/Official  
Printed Name of  
Signatory  
Title

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name of Business

\_\_\_\_\_

Address

\_\_\_\_\_

City, State, Zip

\_\_\_\_\_  
\_\_\_\_\_

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_ ) ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, the undersigned, a Notary Public in and for the State of \_\_\_\_\_, personally appeared \_\_\_\_\_, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to this certification and said person executed this instrument.

\_\_\_\_\_  
Notary Public

**EXHIBIT C**

(BPCA STANDARD FORM OF CONTRACT)

(attached)

**CONSTRUCTION AGREEMENT**

**between**

**BATTERY PARK CITY AUTHORITY,  
d/b/a HUGH L. CAREY BATTERY PARK CITY AUTHORITY**

**and**

**CONTRACTOR COMPANY NAME**

**Dated as of \_\_\_\_\_  
Contract No. ????**

**(PROJECT NAME)**



## TABLE OF CONTENTS

### **Contents**

<b>ARTICLE 1 - DEFINITIONS .....</b>	<b>7</b>
<b>ARTICLE 2 - SCOPE OF WORK, MATERIALS AND LABOR .....</b>	<b>9</b>
2.1 Definition of Work .....	9
2.2 Contract Documents .....	9
2.3 Intent of Contract Documents .....	10
2.4 Completion of Drawings and Specifications .....	11
2.5 Title to Materials .....	11
2.6 Contractor's Obligations .....	12
2.7 "Or Equal" Clause .....	13
2.8 Quality and Labeling .....	14
<b>ARTICLE 3 - COMMENCEMENT AND COMPLETION OF THE WORK .....</b>	<b>14</b>
3.1 Commencement, Completion and Progress Schedule .....	14
3.2 Coordination with Other Contractors .....	16
3.3 Notice of Delay .....	17
3.4 Extension of Time .....	17
<b>ARTICLE 4 - CONTRACT PRICE .....</b>	<b>18</b>
<b>ARTICLE 5 - METHOD, SCHEDULE AND TERMS OF PAYMENTS .....</b>	<b>18</b>
5.1 Partial Payment .....	18
5.2 Requisitions .....	18
5.3 Trade Payment Breakdown .....	19
5.4 Payment for Stored Materials .....	19
5.5 Receipts and Releases of Liens .....	19
5.6 Time of Payment .....	20
5.7 Reduction of Retainage .....	20
5.8 Final Payment .....	20
5.9 Release and Consent of Surety .....	21
5.10 BPCA's Right to Audit and Inspect Records .....	21
5.11 Withholding of Payments .....	21
<b>ARTICLE 6 – CONTRACTOR .....</b>	<b>22</b>
6.1 Superintendence by Contractor .....	22
6.2 Representations and Warranties .....	22
6.3 Verifying Dimensions and Site Conditions .....	23
6.4 Copies of Contract Documents for Contractor .....	23
6.5 Meetings .....	23
6.6 Related Work .....	24
6.7 Surveys and Layout .....	24
6.8 Reports and Access .....	24
6.9 Financial Information .....	24

<b>ARTICLE 7 - CONTRACT ADMINISTRATION .....</b>	<b>24</b>
7.1 Engineer's Responsibilities and Functions.....	24
7.2 Construction Manager's Responsibilities and Functions .....	25
7.3 Scope of Responsibility of Engineer and Construction Manager.....	25
<b>ARTICLE 8 - INSPECTION AND ACCEPTANCE .....</b>	<b>25</b>
8.1 Access to the Work .....	25
8.2 Notice of Required Inspections and Tests .....	25
8.3 Additional Inspections and Tests .....	25
8.4 Uncovering of Work.....	26
8.5 Correction of Work .....	26
8.6 Certificate of Substantial Completion .....	26
8.7 Completion of Work and Acceptance .....	27
<b>ARTICLE 9 - CHANGES IN THE WORK .....</b>	<b>27</b>
9.1 Change Orders.....	27
9.2 Change in Contract Price and Time.....	28
9.3 Field Orders.....	29
9.4 Changed Conditions .....	29
<b>ARTICLE 10 - SUBCONTRACTS AND PURCHASE ORDERS .....</b>	<b>30</b>
10.1 Selection of Subcontractors and Materialmen and Approval of Subcontracts and Purchase Orders	30
10.2 Access by BPCA and Others .....	31
10.3 Retainage.....	31
10.4 Miscellaneous.....	31
<b>ARTICLE 11 - ASSIGNMENT.....</b>	<b>32</b>
11.1 No Assignment of Duties .....	32
11.2 No Assignment of Monies.....	32
11.3 Assignment by BPCA .....	33
<b>ARTICLE 12 - MECHANICS' LIENS AND CLAIMS.....</b>	<b>33</b>
<b>ARTICLE 13 – INSURANCE AND CONTRACT SECURITY .....</b>	<b>33</b>
13.1 Insurance .....	33
13.2 Effect of Procurement of Insurance.....	37
13.3 Contract Security.....	37
13.4 Additional or Substitute Bond.....	37
<b>ARTICLE 14 - CLAIMS FOR EXTRA WORK.....</b>	<b>37</b>
<b>ARTICLE 15 - TERMINATION.....</b>	<b>39</b>
15.1 Termination for Cause.....	39
15.2 Termination for Convenience of BPCA .....	41
15.3 Suspension of Work .....	42
<b>ARTICLE 16 - COMPOSITE DRAWINGS AND COOPERATION.....</b>	<b>42</b>

<b>ARTICLE 17 - PROTECTION OF RIGHTS, PERSONS AND PROPERTY.....</b>	<b>43</b>
17.1 Accident Prevention .....	43
17.2 Safety Programs .....	43
17.3 Protection of Work and Property.....	43
17.4 Adjoining Property.....	43
17.5 Risks Assumed by Contractor .....	44
<b>ARTICLE 18 - USE PRIOR TO ACCEPTANCE BY BPCA.....</b>	<b>45</b>
<b>ARTICLE 19 - EXEMPTION FROM SALES AND COMPENSATING USE TAXES.</b>	<b>45</b>
19.1 BPCA Exempt.....	45
19.2 Certificates .....	45
<b>ARTICLE 20 - WARRANTIES AND GUARANTIES.....</b>	<b>45</b>
20.1 In General.....	46
20.2 Additional Guaranties .....	46
20.3 Repair by Another .....	46
<b>ARTICLE 21 - INDEMNITY.....</b>	<b>47</b>
21.1 Delay or Failure.....	47
21.2 Inventions.....	47
21.3 Liability .....	47
<b>ARTICLE 22 - PATENTS AND ROYALTIES.....</b>	<b>48</b>
<b>ARTICLE 23 - AS-BUILT DRAWINGS.....</b>	<b>48</b>
<b>ARTICLE 24 - SHOP DRAWINGS AND SAMPLES .....</b>	<b>49</b>
24.1 Contractor Submittal .....	49
24.2 Contractor's Responsibility .....	49
<b>ARTICLE 25 – NOTICES.....</b>	<b>49</b>
<b>ARTICLE 26 - EMPLOYMENT AND DIVERSITY.....</b>	<b>51</b>
26.1 Definitions.....	51
26.2 Equal Employment Opportunities for Minority Group Members and Women .....	52
26.3 Workforce Participation .....	54
26.4 Minority Business Enterprise (MBE) Participation and Women's Business Enterprise Participation .....	56
<b>ARTICLE 27 - STANDARD PROVISIONS .....</b>	<b>58</b>
27.1 Provision Required by Law Deemed Inserted .....	58
27.2 Compliance with Laws, Rules and Regulations .....	58
27.3 Applicable Law, Forum and Jurisdiction .....	58
27.4 No Third Party Rights .....	59
27.5 Exculpation; Limitation of Liability.....	59
27.6 Protection of Lives and Health .....	59
27.7 Waiver of Immunity Clause .....	59
27.8 Prohibited Interests.....	60

27.9	Labor Provisions .....	60
27.10	Disputes Resolution Procedure .....	62
27.11	Additional Provisions Relating to the Prosecution of Claims for Money Damages .....	63
27.12	Limitation on Actions .....	64
27.13	Waiver of Remedies .....	65
27.14	Modification of Agreement.....	65
27.15	Signs and Parking .....	65
27.16	Entire Agreement .....	65
27.17	Rights and Remedies.....	66
27.18	Participation in International Boycott Prohibited.....	66
27.19	Compliance with “Buy-American” Statutes .....	66
27.20	Permitted Successors .....	66
27.21	MacBride Fair Employment Principles.....	66
27.22	Termination for Failure to Disclose Under NYS Finance Law §139k.....	67
27.23	Labor Peace.....	67
27.24	Comptroller’s Approval .....	67
27.25	Key Person/Personnel .....	67
27.26	Form of Agreement Not an Offer.....	68

## EXHIBITS

## CONSTRUCTION AGREEMENT

AGREEMENT made as of the \_\_\_\_\_ day of \_\_\_\_\_, 2011, between BATTERY PARK CITY AUTHORITY, d/b/a HUGH L. CAREY BATTERY PARK CITY AUTHORITY, a body corporate and politic, constituting a public benefit corporation and having a place of business at One World Financial Center, 24th Floor, New York, New York 10281 ("Authority," "BPCA" or "Owner") and CONTRACTOR COMPANY NAME, a corporation incorporated under the laws of STATE, having an office at Street Address, City, Zip, Phone, ("Contractor").

### W I T N E S S E T H:

WHEREAS, BPCA has fee title to certain real property located in the City, County and State of New York, generally consisting of approximately 92 acres of land located on the west side of lower Manhattan, bounded by Pier A to the South, the westerly extension of Reade Street to the North, the United States Bulkhead Line to the East and the United States Pierhead Line to the West (collectively, "Battery Park City"); and

WHEREAS, BPCA has caused the staged development of Battery Park City, in individual parcels, creating a richly diversified mixed use community providing residential and commercial space, with related amenities such as parks, plazas, recreational areas and a waterfront esplanade; and

WHEREAS, BPCA intends to hire a contractor to perform type of services services, consisting of the Work, as hereinafter defined, for the location (the "Project"), located in and adjacent to location, in Battery Park City, in the Borough of Manhattan, County, City and State of New York (the "Site"); and

WHEREAS, Contractor has been selected to perform the Work, as hereinafter defined, upon the terms and conditions hereinafter provided; and

WHEREAS, Contractor and BPCA entered into a Letter of Intent, dated as of August 31, 2011 (the "Letter of Intent"), under which BPCA authorized Contractor to perform the Work, as hereinafter defined, up to a funding maximum of \$50,000. The terms and conditions of such Letter of Intent are hereby superseded by the terms and conditions set forth herein; (if there is no Letter of Intent, omit this Recital).

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, Contractor and BPCA hereby agree as follows:

## **ARTICLE 1 - DEFINITIONS**

The following terms, wherever used in the Contract Documents, as defined herein, shall have the meanings set forth below or in the Section enumerated below next to each term:

- (a) Agreement - as defined in Section 2.2(a).
- (b) Agreement Termination Date - as defined in Section 3.1(a)
- (c) Architect - Name, address, etc. or n/a.
- (d) Artist - n/a.
- (e) Authority - as defined in the introductory clause of this Agreement.

(f) BPCA - as defined in the introductory clause of this Agreement. BPCA hereby designates BPCA Person and Title, Project Manager, as the representative of BPCA for the purpose of acting on behalf of BPCA whenever action is required to be taken hereunder by BPCA. Such designation may be revoked in writing at any time after notice given by BPCA to Contractor. In addition, such representative of BPCA shall have full power and authority to delegate in writing any or all of her responsibilities hereunder to any one or more persons after notice to Contractor.

- (g) Certificate of Substantial Completion - as defined in Section 8.6.
- (h) Change Order - as defined in Section 9.1(b).
- (i) Construction Manager - Name, address, etc. or n/a.
- (j) Contract Documents - as defined in Section 2.2.
- (k) Contract Price - as defined in Article 4.

(l) Contract Time - the duration of time during which Construction Manager schedules and coordinates the Work of Contractor pursuant to Section 7.2 hereof.

- (m) Contractor - as defined in the introductory clause of this Agreement.
- (n) Drawings - Project drawings comprising part of Exhibit B.
- (o) Engineer - Name, address, etc. or n/a.

(p) Extra Work - Any work in addition to the Work to be performed by Contractor pursuant to the Contract Documents.

(q) Field Order - as defined in Section 9.3.

(r) Final Acceptance - as defined in Section 8.7.

(s) Final Requisition - as defined in Section 5.2.

(t) Guarantor - as defined in Section 27.3.

(u) Joint Venture - an entity created pursuant to a written agreement among two or more contractors pursuant to which each shares in the direction and performance of the Work and shares in a stated percentage of profits or losses.

(v) Key Person/Personnel - as defined in Section 27.25.

(w) Letter of Intent - as defined in the fifth whereas clause of this Agreement.

(x) Materialman - Supplier of Materials.

(y) Materials - All products, materials, fixtures, tools, equipment, apparatus, and furnishings intended to form a part of the Work.

(z) Minority Business Enterprise or Minority Owned Business Enterprise or MBE - as defined in Article 26.

(aa) Minority or Minority Group Member - as defined in Article 26.

(bb) Payment Bond - as defined in Section 13.3.

(cc) Performance Bond - as defined in Section 13.3.

(dd) Preceding Covered Date - as defined in Section 5.5.

(ee) Product Data - Illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by Contractor to illustrate a material, product or system for some portion of the Work.

(ff) Progress Schedule - as defined in Section 3.1(a).

(gg) Project - as defined in the third Recital of this Agreement.

(hh) Purchase Order - as defined in Section 10.1(e).

(ii) Requisitions - as defined in Section 5.2.

(jj) Samples - Physical examples which illustrate Materials or workmanship and establish standards by which the Work will be judged.

- (kk) Site - as defined in the third whereas clause of this Agreement.
- (ll) Specifications - the specifications comprising part of Exhibit C.
- (mm) Subcontract - An Agreement between the Contractor and a Subcontractor (as defined in subSection (nn), below) for work on the Site.
- (nn) Subcontractor - A person, firm, partnership or corporation under contract with Contractor.
- (oo) Term - as defined in Section 3.1(i).
- (pp) Trade Payment Breakdown - as defined in Section 5.3.
- (qq) Women's Business Enterprise or Women Owned Business Enterprise or WBE - as defined in Article 26.
- (rr) Work - as defined in Section 2.1.
- (ss) Work Completion Date - as defined in Section 3.1(a).

## **ARTICLE 2 - SCOPE OF WORK, MATERIALS AND LABOR**

### **2.1 Definition of Work**

Contractor shall perform and complete (and shall cause all Subcontractors to perform and complete) for BPCA the work more particularly described in Exhibit A - Scope of Work annexed hereto and made a part hereof, required by and in conformity with the Contract Documents in connection with the construction of the Project on the Site. All Materials to be furnished and labor and work to be performed and completed by Contractor and/or Subcontractors as required in the Contract Documents and in conformity with all requirements applicable with respect thereto are herein collectively referred to as the "Work."

### **2.2 Contract Documents**

The "Contract Documents" shall consist of the following:

(a) This instrument (the "Agreement"), which includes, in addition to the text comprising Articles 1 through 27, the following:

(1) Exhibit A:

(2) Exhibit B:

Etc.



- (b) The Payment and Performance Bonds (as defined in Section 13.3).
- (c) Change Orders adopted pursuant to Article 9.

The Contract Documents form the contract between BPCA and Contractor. References in the Contract Documents to “the Contract”, “this Contract” or “the Construction Contract” shall be deemed to include all of the Contract Documents. References to “this Agreement” or “the Agreement” shall refer to this instrument (including the Exhibits attached hereto), which is one of the Contract Documents.

### **2.3 Intent of Contract Documents**

(a) The intent of the Contract Documents is to include in the Work all labor and materials, insurance, tools, equipment, permits, licenses, taxes, approvals, transportation, surveys, testing, field Engineering and other professional services (other than the services of BPCA’s Architect, Construction Manager, Engineers and attorneys, and the inspection, survey and testing services of BPCA) and any other items required to execute and complete the Work satisfactorily and in accordance with the Contract Documents. Contractor shall perform and complete the Work in accordance with the true intent and meaning of the Contract Documents and shall perform all Work incident thereto or as is usually performed in connection therewith or as is reasonably inferable therefrom, it being the intention that all work usually performed by the trade covered by this Agreement and necessary to produce the intended result be performed by Contractor whether or not specifically covered by the Contract Documents.

(b) The Contract Documents are complementary and what is called for by one shall be as binding as if called for by all.

(c) If any conflicts or ambiguities are found in or between the Drawings and Specifications, or among any of the Contract Documents, they shall be brought to the attention of Construction Manager immediately for resolution. Engineer and Construction Manager will interpret the Contract Documents so as to secure in all cases the most substantial and complete performance of the Work as is most consistent with the needs and requirements of the Work. In the event that Engineer and Construction Manager shall disagree as to the interpretation of the Contract Documents, such dispute shall be presented to BPCA, which shall have sole authority to resolve the dispute.

(d) Addenda to parts of the Contract Documents are for the purpose of varying, modifying, rescinding or adding to the affected portion of the Contract Documents. All addenda should be read together with the portions of the Contract Documents to which they pertain. Where an addendum modifies a portion of a paragraph or a Section, the remainder of the paragraph or Section shall remain in force unless otherwise stated in the addendum.

(e) Captions, headings, cover pages, tables of contents and footnote instructions contained in the Contract Documents are inserted only to facilitate reference and for

convenience and in no way define, limit or describe the scope, intent or meaning of any provision of the Contract.

(f) Words and abbreviations which have well-known technical or trade meanings are used in the Contract Documents in accordance with such recognized meanings.

(g) Drawings and Specifications are complementary. Anything shown in the Drawings and not mentioned in the Specifications, or mentioned in the Specifications and not shown in the Drawings, shall have the same effect as if shown or mentioned in both.

(h) A typical or representative detail indicated on the Drawings shall constitute the standard for workmanship and material throughout corresponding parts of the Work. Where necessary, and where reasonably inferable from the Drawings or Specifications, Contractor shall adapt such representative detail for application to such corresponding parts of the Work. The details of such adaptation shall be subject to prior approval by Engineer. Repetitive features shown in outline on the Drawings shall be in exact accordance with corresponding features completely shown.

(i) The layout of mechanical and electrical systems, equipment, fixtures, piping, ductwork, conduit, specialty items, and accessories indicated on the Drawings is diagrammatic, and all variations in alignment, elevation, and detail required to avoid interferences and satisfy Architectural and structural limitations are not necessarily shown. Actual layout of the Work shall be carried out without affecting the Architectural and structural integrity and limitations of the Work and shall be performed in such sequence and manner as to avoid conflicts, provide clear access to all control points, including valves, strainers, control devices, and specialty items of every nature related to such systems and equipment, obtain maximum headroom, and provide adequate clearances as required for operation and maintenance.

#### **2.4 Completion of Drawings and Specifications**

Contractor acknowledges that there are items of work which are not drawn or specified with complete detail in the Drawings and Specifications but which are required for the completion of the Work. Any such item, when identified as part of the reasonable development of the Work, shall be drawn or specified by Engineer in consultation with Contractor, in a manner consistent with contemplated kind and quality and customary standards. When such drawing or specification is approved by BPCA, the drawing or specification so approved shall thereupon be part of the Contract Documents and the item of work shall be performed by Contractor as part of the Work without further action or order of Construction Manager or BPCA and without any increase in the Contract Price (as hereinafter defined) as if such drawing and specification were originally included in the Contract Documents.

#### **2.5 Title to Materials**

Title to all Materials shall immediately vest in BPCA upon payment in respect of such Materials, whether or not then incorporated or installed into the Project. The Materials shall then become the sole property of BPCA subject to the right of BPCA, Construction

Manager or Engineer to reject same for failure to conform to the standards of any or all of the Contract Documents. Title to all Work and Materials shall be in BPCA, free and clear of all liens, claims, security interests or encumbrances. Contractor warrants that no Work or Materials shall be fabricated or delivered to the Site by Contractor or any Subcontractor or Materialman subject to any security interest, lien or similar encumbrance.

## **2.6 Contractor's Obligations**

(a) Contractor shall in a good and workmanlike manner perform all the Work required by this Agreement in accordance with the best practice of Contractor's trade within the time specified herein. Contractor shall supervise and direct the Work using its best skill and attention. Contractor shall be solely responsible for all construction means, methods, techniques, sequences and procedures within the scope of Contractor's Work.

(b) Contractor shall furnish, erect, maintain, and remove such construction plant and such temporary Work as may be required for the performance of the Work. Contractor shall be responsible for the safety, efficiency and adequacy of Contractor's plant, appliances and methods, and for damage which may result from failure or improper construction, maintenance or operation of such plant, appliances and methods. Contractor shall comply with all terms of the Contract Documents, and shall do, carry on and complete the entire Work under the direction of and to the satisfaction of BPCA.

(c) Contractor shall provide all equipment, tools and materials and whatever else may be required for proper performance of the Work unless stated otherwise in the Contract Documents.

(d) Contractor shall deliver all Materials at such times and in such quantities as will insure the speedy and uninterrupted progress of the Work. All Materials shall be delivered to the Site in proper order and quantity and shall be stored at the Site, if storage space is available in Construction Manager's opinion, in such places as Construction Manager shall direct; provided, that no delivery of Materials shall be made to the Site without prior approval by Construction Manager. No Materials shall be removed from the Site without the consent of Construction Manager. Contractor shall handle and take care of all Materials used in performance of the Work whether furnished by Contractor or BPCA, as the same are delivered to the Site or to any applicable offsite storage location and shall be solely responsible for the security and condition of the same. After final completion and acceptance of the Work, or sooner if requested by Construction Manager, Contractor shall remove all surplus Materials and scaffolding furnished by it which have not been incorporated in the Work.

(e) Contractor shall follow and perform the Work in accordance with the Contract Documents as interpreted by Engineer, Construction Manager, and BPCA.

(f) Unless otherwise provided in the Contract Documents, Contractor shall secure and pay for all permits and governmental fees, licenses and inspections necessary for the proper execution and completion of the Work. Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the

performance of the Work. If Contractor observes that any of the Contract Documents are at variance with any applicable laws in any respect, Contractor shall promptly notify Engineer and Construction Manager in writing, and any necessary changes shall be accomplished by appropriate modification. If Contractor performs any Work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to Engineer and Construction Manager, Contractor shall assume full responsibility therefor and shall bear all costs attributable thereto.

(g) Contractor shall be responsible for collecting all paper, cartons and other debris caused by its Work or personnel, placing the same in a location designated by Construction Manager and keeping the portion of the Site upon which Contractor is performing the Work free from all debris.

(h) Contractor shall attend meetings as directed by BPCA or Construction Manager.

## **2.7 “Or Equal” Clause**

(a) The Materials of manufacturers referred to in the Specifications and on the Drawings are intended to establish the standard of quality and design required by Engineer; however, Materials of manufacturers, other than those specified, may be used if equivalent and approved by Engineer, Construction Manager and BPCA.

(b) It is deemed that the term “or approved equal” is included after all Materials referred to in the Specifications or on the Drawings.

(c) Engineer will initially judge the equivalency of proposed substitute Materials. Engineer will make written recommendation of acceptance or rejection to Construction Manager and/or BPCA. Construction Manager and/or BPCA will then authorize Engineer to issue to Contractor written approval or rejection of the substitution.

(d) If Contractor desires to use a substitute item, Contractor shall make application to Engineer in writing in sufficient time (with regard to the progress of the Work, the period of delivery of the goods concerned and adequate time for Engineer’s review) stating and fully identifying the proposed substitute, cost changes (if any), and submitting substantiating data, samples, brochures of the item proposed. It is Contractor’s responsibility to provide at its sole expense sufficient evidence by tests or other means to support any request for approval of substitutions.

(e) Prior to proposing any substitute item, Contractor shall satisfy itself that the item Contractor proposes is, in fact, equal to that specified and had been used satisfactorily in similar applications to the application proposed for the Work, for at least three years, that it will fit into the space allocated and within the load allocated for the same, that it affords comparable ease of operations, maintenance and service, that its appearance, longevity and suitability for the climate and use are comparable to that specified, and that the substitution requires no change in dimension or design of any other Work of Contractor, of any other contractor or in the time required for the performance thereof.

(f) The burden of proof that a proposed substitution is equal to a specified item shall be upon Contractor, who shall support its request with sufficient test data and other means to permit Engineer to make a fair and equitable decision on the merits of the proposal. Any item by the manufacturer other than those cited in the Contract Documents, or of brand name or model number or of generic species other than those cited in the Contract Documents, will be considered a substitution.

(g) Acceptance of substitutions shall not relieve Contractor from responsibility for compliance with all the requirements of the Contract Documents. If, notwithstanding the provisions of subSection (e) above, changes in other parts of the Work or the work of other contractors are required by its substitutions, Contractor shall be responsible for the costs of any such changes including the cost of all design and redesign services related thereto incurred by the Engineer and his consultants.

(h) The Contract Time shall not be extended by any circumstances resulting from a proposed substitution, nor shall Contractor be entitled to any compensation for any delay caused thereby or related thereto.

## **2.8 Quality and Labeling**

All Materials furnished shall be new and the quality thereof shall be in accordance with the Contract Documents. When Materials are specified to conform to a given standard, the Materials delivered to the Site shall bear manufacturer's labels stating that the Materials meet such standard. The above requirements shall not restrict or affect BPCA's right to test Materials as provided in this Agreement.

# **ARTICLE 3 - COMMENCEMENT AND COMPLETION OF THE WORK**

## **3.1 Commencement, Completion and Progress Schedule**

(a) Contractor agrees to be bound by and comply with the Progress Schedule and the Work Completion Date and the progress schedule for completion and progress of the Work (with the original progress schedule, as the Progress Schedule shall be updated pursuant to subSection (b), below, being referred to herein as the "Progress Schedule") and waives any right to charge or claim damages or any increased cost, charges or expenses against BPCA, Construction Manager, or Engineer, for delays or disruptions from any cause whatsoever. Contractor's sole remedy as against BPCA, Construction Manager, or Engineer for any delays or disruptions shall be as provided in Section 3.4 hereof. Notwithstanding the foregoing, the Work shall be completed by no later than DATE (the "Work Completion Date") with time being of the essence in respect of said Work Completion Date, as more fully set forth in subSection (h) below; this Agreement shall terminate by DATE (the "Agreement Termination Date").

(b) Contractor has prepared a Progress Schedule detailing, without limitation, all

items of Work to be performed. Such Progress Schedule shall be updated weekly, or at any other time at the request of Construction Manager or BPCA, and submitted to Construction Manager and BPCA for review and approval. Failure to submit any requested update shall constitute a material breach of this Agreement. After submission of the Progress Schedule for the Work, Construction Manager shall coordinate the Progress Schedule for the Work in coordination with the Progress Schedule for the entire Project. The Progress Schedule for the Work may be revised by Construction Manager from time to time.

(c) Contractor (shall commence the Work upon receipt of a written notice to proceed signed by BPCA/commenced the Work pursuant to the Letter of Intent, and shall prosecute the Work diligently and in accordance with the time and place requirements of the Project as determined and directed by Construction Manager, by using such means and methods of construction as will assure that the Work will be performed hereunder in accordance with the Contract Documents and Progress Schedule, and to the satisfaction of BPCA, Engineer, and Construction Manager.

(d) If, in the opinion of Construction Manager, Contractor falls behind the Progress Schedule then in effect, Contractor shall take whatever steps may be necessary to improve its progress and shall, if requested by Construction Manager, submit operational plans to demonstrate the manner in which the lost time may be regained. It is the responsibility of Contractor to maintain its schedule so as not to delay the progress of the Project or the schedules of other contractors. If Contractor delays the progress of its Work or the work of other contractors, it shall be the responsibility of Contractor to increase the number of workers, the number of shifts, the days of Work and/or, to the extent permitted by law, to institute or increase overtime operations, all without additional cost to BPCA, in order to regain any time lost and maintain the Progress Schedule then in effect as established by Construction Manager.

(e) If Contractor shall fail to complete the Work by the Work Completion Date, or within the time to which such completion may have been extended, BPCA may, at its option, withhold from any sums otherwise due and owing to Contractor hereunder, so much of the balance thereof as BPCA shall deem necessary to secure it against any costs, expenses, or damages which may be incurred by BPCA as a result of said failure, but any such withholding shall not be deemed to be a waiver of any rights hereunder, and Contractor shall be liable to and shall indemnify and hold BPCA harmless from any and all cost, expense or damage incurred by BPCA by reason of such failure.

(f) If Contractor shall neglect, fail or refuse to complete the Work by DATE, or upon the expiration of any proper extension granted by Owner, Contractor agrees to pay to Owner \$1,000.00 (One Thousand Dollars), not as a penalty, **but as liquidated** damages, for each and every calendar day that the Contractor is in default. Default shall include abandonment of the Work by Contractor.

(g) Said amount of liquidated damages is agreed upon by and between Contractor and Owner because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages which Owner would sustain in the event of delay in completion, and said amount is agreed to be the amount of damages sustained by Owner and said amount may be

retained from time to time by Owner.

(h) It is further agreed that time is of the essence for each and every portion of the Work. In any instance in which additional time is allowed for the completion of any Work, the new time of completion established by said extension shall be of the essence. Contractor shall not be charged with liquidated damages or any excess cost if BPCA determines that Contractor is without fault and that the delay in completion of the Work is due:

(1) to any preference, priority or allocation order duly issued by the Government of the United States or the State of New York;

(2) to an unforeseeable cause beyond the control and without the fault of, or negligence of Contractor, and approved by BPCA, including, but not limited to, acts of God or of public enemy, acts of BPCA, fires, epidemics, quarantine, strikes, freight embargoes and unusually severe weather; and

(3) to any delays of Subcontractors or Materialmen occasioned by any of the causes specified in SubSections 1 and 2 of this paragraph.

(i) Notwithstanding the foregoing, and whether or not, at any given time, a Progress Schedule, or update thereto (as appropriate) has been submitted, the Work shall be completed by the Work Completion Date (with the period between commencement of the Work and the Work Completion Date being referred to herein as the "Term").

### **3.2 Coordination with Other Contractors**

Contractor shall coordinate the Work to be performed hereunder with the work of other contractors performing work for the Project in such manner as Construction Manager shall direct. Contractor shall indemnify and hold BPCA, Construction Manager and Engineer harmless from any and all claims or judgments for damages, costs and expenses to which BPCA, Construction Manager or Engineer may be subjected or which they may suffer or incur by reason of Contractor's failure to comply with Construction Manager's directions promptly. If Contractor notifies Construction Manager in writing that another contractor is failing to coordinate its work with the Work to be performed hereunder, Construction Manager shall promptly investigate the charge. If Construction Manager finds that charge to be true, it shall promptly issue such direction to the other contractor with respect thereto as the situation may require. BPCA, Construction Manager and Engineer shall not, however, be liable for any damages suffered by Contractor by reason of the other contractor's failure promptly to comply with the directions so issued by Construction Manager or by reason of another contractor's default in performance. Should Contractor sustain any damage through any act or omission of any other contractor, Contractor shall have no claim against BPCA, Construction Manager or Engineer for such damage but shall have a right to recover such damage from the other contractor, under a provision similar to a provision contained in the following sentence which is part of this Agreement and which has been or will be inserted in the contracts with the other contractors engaged in the Project.

Should any other contractor having or who shall hereafter have a contract with BPCA for the performance of work upon the Project sustain any damage through any act or omission of Contractor hereunder, Contractor agrees to reimburse such other contractor for all such damages and to indemnify and hold BPCA, Construction Manager and Engineer harmless from all such claims. Any claim against a performance bond surety made by any contractor shall be subordinated to any claim of BPCA then existing or that may arise in the future against such other contractor or its performance bond surety.

### **3.3     Notice of Delay**

Should Contractor be or anticipate being delayed or disrupted in performing the Work hereunder for any reason, including, without limitation, its financial condition or Contractor's general nonpayment of its debts as such debts become due, it shall promptly and in no event more than three (3) days after the commencement of any condition which is causing or is threatening to cause such delay or disruption notify Construction Manager in writing of the effect of such condition upon BPCA's Progress Schedule, stating why and in what respects the condition is causing or is threatening to cause delay, provided, however, that notwithstanding the above, if such delay or disruption, or anticipated delay or disruption, should be the result of any change or anticipated change in Contractor's financial condition, Contractor shall notify Construction Manager forthwith of such cause or anticipated cause. Failure strictly to comply with this notice requirement shall be sufficient cause to deny Contractor a change in schedule and to require it to conform to the Progress Schedule then in effect established by Construction Manager.

### **3.4     Extension of Time**

(a)     An extension of time under the Progress Schedule then in effect may be granted by BPCA subject to the provisions hereof upon written application therefor by Contractor. An application for an extension of time under the Progress Schedule then in effect must set forth in detail the nature of each cause of delay in the performance of the Work, the date or dates upon which each cause of delay began and ended and the number of days delay attributable to each such cause. After the application is submitted, Contractor shall supply any other data that Construction Manager may request.

(b)     Contractor shall be entitled to an extension of time under the Progress Schedule then in effect for delays in the performance of the Work, if caused:

- (1)     solely by acts or omission of BPCA, Construction Manager or Engineer;  
or
- (2)     by the acts or omissions of other contractors or unforeseeable causes beyond the control and without the fault or negligence of Contractor including, but not limited to, acts of God, acts of public enemy, acts of any Government body, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather, or delays of Subcontractors or Materialmen arising from unforeseeable causes



beyond the control and without the fault or negligence of both Contractor and such Subcontractors or Materialmen; provided, that Contractor shall have used its best efforts and diligently sought to have minimized any such period of delay, by taking whatever measures are necessary, including without limitation, if applicable, seeking alternate sources of Materials, other Subcontractors or other facilities in which to perform the required construction operations; and provided, further, that an application is made pursuant to the requirements of the immediately preceding paragraph.

#### **ARTICLE 4 - CONTRACT PRICE**

For the performance and completion of the Work, BPCA shall pay Contractor a lump sum amount of \$XXXXXXXXXXXXXXXX, (such sum is herein sometimes referred to as the "Contract Price"), which amount shall include any monies paid heretofore in accordance with the Letter of Intent, provided, that if the Contract Price shall be expressly revised by a Change Order in accordance with Article 9 hereof, the Contract Price shall thereafter mean the Contract Price as so revised. Contractor will submit appropriate Time Sheets in the form of Exhibit F.

#### **ARTICLE 5 - METHOD, SCHEDULE AND TERMS OF PAYMENTS**

##### **5.1 Partial Payment**

(a) In accordance with Requisitions (as defined in Section 5.2) submitted and approved as provided below for Work performed in accordance with this Agreement, Contractor shall be entitled to partial payment on account of the Contract Price in an amount equal to the value, as determined in accordance with the Trade Payment Breakdown (as defined in Section 5.3), of the portions of the Work completed and acceptable to BPCA and Construction Manager for purposes of such payment, less a retainage equal to ten percent (10%) of the total amount of all prior partial payments. Partial payments shall constitute advances against the Contract Price until final payment is made and accepted. No partial payment made, nor approval of a portion of the Work given for purposes of making a partial payment, shall constitute an acceptance of any Work not in accordance with the Contract Documents.

(b) Upon completion of fifty percent of the Work, Contractor may make written application to BPCA requesting reduction of the retainage set forth in Section 5.1(a) hereof. Approval of such reduction of retainage and the percentage to which the retainage shall be reduced is in the sole discretion of BPCA. If BPCA approves a reduction of retainage as herein described, BPCA shall so notify Contractor in writing. Any reduction of retainage pursuant to this paragraph (b) shall not be deemed to be a waiver of retainage requirements for future partial payments.

##### **5.2 Requisitions**

Applications for partial payments (“Requisitions”) and application for final payment (“Final Requisition”) shall be in the form previously supplied by BPCA and shall be submitted by Contractor to Construction Manager or its designee in five original copies in the manner hereinafter provided for the approval of BPCA and Construction Manager. Each Requisition shall be supported by such data substantiating Contractor’s right to payment as BPCA and Construction Manager may require.

### **5.3     Trade Payment Breakdown**

Prior to the submission of the first Requisition, Contractor shall present to Construction Manager for approval a trade payment breakdown (the “Trade Payment Breakdown”) of the various portions of the Work, aggregating the Contract Price, prepared in such form as specified by BPCA and supported by such data to substantiate its correctness as Construction Manager may require. After approval by BPCA and Construction Manager, the Trade Payment Breakdown shall not be changed or revised in any way without the written consent of Construction Manager. The Trade Payment Breakdown, when approved by Construction Manager, shall be used only as a basis for Requisitions and shall not be considered as a basis for reducing or increasing the Contract Price.

### **5.4     Payment for Stored Materials**

If approved in advance of delivery by BPCA and Construction Manager, payments will be made on account of 80% of the value of Materials not incorporated in the Work but delivered and suitably stored at the Site or at some other offsite location agreed upon in writing by BPCA and Construction Manager. Such payments shall be conditioned upon submission by Contractor of bills of sale or other supporting documentation satisfactory to BPCA and Construction Manager to establish BPCA’s title to such materials including applicable insurance and transportation to the Site for those materials stored offsite. In the event that Contractor, with approval of BPCA, stores any materials offsite, the conditions for payment of material stored off-site shall include but not be limited to the following: (a) the material shall be properly stored in a secured location approved by the BPCA and/or Construction Manager; (b) the Material will be covered under the BPCA’s builder’s risk policy subject to policy limits and restrictions; and (c) the Material may be inspected by the BPCA and/or Construction Manager to assure compliance with Contract Documents.

### **5.5     Receipts and Releases of Liens**

With each Requisition, Contractor shall furnish its affidavit of payment and waiver of lien for Work done and Materials furnished through the date covered by the last preceding partial payment (the “Preceding Covered Date”) and shall furnish its affidavit certifying that all Subcontractors and Materialmen have been paid for Work performed and Materials furnished through the Preceding Covered Date except for any permitted retainage. BPCA may also require Contractor to attach to each Requisition (i) affidavits of payment and waivers of lien from all Subcontractors and Materialmen dealing directly or indirectly with Contractor for Work performed and Materials furnished through the Preceding Covered Date

and/or (ii) the consent of the surety issuing the Payment Bond to such payment. BPCA may require Contractor to execute a waiver of lien at the time payment is made for a Requisition for all Work performed through the date of the Requisition in respect of which payment is being made.

In addition to the documents required to be furnished by the preceding paragraph, with the Final Requisition, Contractor shall furnish (y) its affidavit that there are no liens, claims or demands by, and that there is no indebtedness to, Subcontractors, Materialmen, laborers, other employees or third persons for which BPCA, Construction Manager, or Engineer might in any way be responsible and (z) releases from all Subcontractors and Materialmen dealing directly or indirectly with Contractor. Should any such Subcontractor or Materialman fail or refuse to furnish such release, Contractor may be required to furnish a bond satisfactory to BPCA to indemnify it against any such lien, claim or demand. If any such lien, claim or demand remains unsatisfied after all payments are made to Contractor, Contractor shall refund to BPCA all monies that BPCA may be compelled to pay in discharging such lien, claim or demand including all costs, expenses and attorneys' fees which BPCA may incur in connection therewith.

#### **5.6     Time of Payment**

Requisitions shall be submitted by Contractor to BPCA and Construction Manager by the seventh day of each calendar month for Work completed up to the last calendar day of the previous month or other day approved by BPCA, and payment shall be made on or about twenty days after BPCA receives the Requisition together with the documents required pursuant to Sections 5.2 and 5.5 hereof. Contractor shall be entitled to payment only in the amount approved by BPCA, and Construction Manager with respect to such Requisitions, each of which must be signed by BPCA, and Construction Manager before payment is made. The value of any Work included in a Requisition for partial payment which is found unacceptable by BPCA, or Construction Manager may be deducted from that or any subsequent Requisition.

#### **5.7     Reduction of Retainage**

Upon the issuance of a Certificate of Substantial Completion, as defined in Section 8.6, Contractor shall submit a Requisition in an amount equal to the Contract Price less an amount equal to two times the value of the Work on the punch list as determined by Construction Manager and less the total amount of all prior payments. Upon approval of the same by BPCA, BPCA shall pay to Contractor the amount approved less any amount which BPCA is entitled to withhold hereunder.

#### **5.8     Final Payment**

(a)     The final balance due Contractor under this Agreement shall be payable to Contractor by BPCA, as final payment hereunder, within thirty days after all of the following have taken place:

(1)     Contractor's Final Requisition has been submitted by Contractor and

approved by BPCA, and Construction Manager;

- (2) the affidavit provided for in Section 5.5 hereof has been submitted by Contractor, and any other documents or actions expressly specified in the Contract Documents as preconditions to final payment have been submitted or completed; and
- (3) any inspections or approvals with respect to any of the Work that BPCA deems legally required or appropriate by governmental authorities or by the applicable Board of Fire Underwriters have been performed or obtained.

(b) The acceptance of final payment shall constitute a waiver of all claims by Contractor.

#### **5.9 Release and Consent of Surety**

Notwithstanding any other provision of this Agreement, before final payment pursuant to Section 5.8 shall become due pursuant hereto or before reduction of retainage, Contractor shall submit to BPCA a consent of surety to final payment or reduction of retainage in a form and substance acceptable to BPCA.

#### **5.10 BPCA's Right to Audit and Inspect Records**

Contractor shall maintain and shall keep for a period of at least six years after the date of Final Acceptance of the Work, pursuant to Section 8.7, all records and other data relating to the Work. BPCA or its designee shall have the right to inspect and audit all records and other data of Contractor relating to the Work at any time and from time to time until the end of such six year period. Contractor shall promptly respond to any inquiries of BPCA or any representative of BPCA arising out of any such inspection or audit.

#### **5.11 Withholding of Payments**

(a) BPCA may withhold payment or, because of subsequently discovered evidence, may nullify the whole or any part of any previously approved Requisition to such extent as may, in the judgment of BPCA, be necessary:

- (1) to assure payment of just claims or liens of any persons supplying labor or Materials for the Work;
- (2) to protect BPCA from loss due to defective Work or to reimburse BPCA, Construction Manager and Engineer for fines on account of non-compliance with applicable laws, rules and regulations, including rules promulgated by the Office of Safety & Health Administration;

- (3) to protect BPCA from loss due to death or injury to persons or damage to the Work or property of BPCA, other contractors or others caused by the act or neglect of the Contractor;
- (4) in the event that there is reasonable evidence that the Work will not be completed for the unpaid balance of the Contract Price;
- (5) in the event that there is reasonable evidence that the Work will not be completed within the time provided; or
- (6) in the event that Contractor persistently fails to perform the Work in accordance with the Contract Documents.

In any of such events, BPCA shall have the right to apply any such amounts so withheld in such manner as BPCA may deem proper to satisfy such claims, to secure such protection, to complete the Work or to compensate BPCA for any loss suffered by reason of Contractor's delay. Such application shall be deemed payment for the account of Contractor. In the event that BPCA gives Contractor notice that it intends to make such application, Contractor shall be estopped from disputing liability or the amount of liability unless, within three days after receipt of such notice, it indicates to BPCA in writing that it is not liable or that the amount of its liability is different from that set forth in the notice.

(b) The provisions of this Section 5.11 are solely for the benefit of BPCA, and any action or non-action by BPCA shall not give rise to any liability on the part of BPCA. Failure to so act shall not be deemed a waiver of any present or future claims of BPCA.

## **ARTICLE 6 – CONTRACTOR**

### **6.1 Superintendence by Contractor**

Contractor shall provide a competent construction superintendent to be in charge of the Work. The construction superintendent shall devote full time to the Work, shall be present at the Site during the time the Work is required to be performed and shall have full authority to accept instructions, make decisions and act for Contractor at all times. If at any time the construction superintendent is not satisfactory to BPCA or Construction Manager, Contractor shall, if requested by BPCA, replace such superintendent with another satisfactory to BPCA. Contractor shall enforce strict discipline and good order at all times among Contractor's employees and all Subcontractors. Contractor shall not engage any employee not skilled in the task assigned.

### **6.2 Representations and Warranties**

Contractor represents and warrants that:

- (a) Contractor is financially solvent and is experienced in, and competent to

perform, the Work and has the staff, manpower, equipment, Subcontractor, and suppliers available to complete the Work within the time specified in the Agreement for the Contract Price;

(b) Contractor is familiar with all Federal, State or other laws, ordinances, orders, rules and regulations, which may in any way affect the Work;

(c) any temporary and permanent Work required by this Agreement can be satisfactorily constructed, and such construction will not injure any person or damage any property; and

(d) Contractor has carefully examined the Contract Documents and the Site and, from Contractor's own investigations, is satisfied as to the nature and location of the Work, the character, quality and quantity of surface and subsurface materials likely to be encountered, the character of equipment and other facilities needed for the performance of the Work, the general and local conditions, and all other conditions or items which may affect the Work. Prior to submitting its bid for performance of the Work, Contractor notified BPCA or Construction Manager in writing of any discrepancies or errors in the Contract Documents.

### **6.3 Verifying Dimensions and Site Conditions**

Before proceeding with the Work, Contractor will check all previous and surrounding work and determine the correctness of the same; failure on its part to detect or report discrepancies will relieve BPCA of liability from any and all claims to recover cost, expense, loss or damage resulting therefrom. Contractor shall take, determine, investigate and verify all field measurements, dimensions, field construction criteria and Site conditions for the performance of the Work and shall check and coordinate the information contained in the Contract Documents and the boring logs which shall be available for inspection with the requirements of the Work. Contractor shall be responsible for determining the exact location of and to verify the spatial relationships of all Work. If any conflicts or discrepancies are found in the Contract Documents or if Contractor has any questions concerning the foregoing, it shall immediately notify Construction Manager and shall thereafter perform the Work in accordance with the directions of Construction Manager.

### **6.4 Copies of Contract Documents for Contractor**

BPCA shall furnish to Contractor, without charge, two sets of the Contract Documents. Any sets in excess of the number mentioned above may be furnished to Contractor at the cost of reproduction and mailing.

### **6.5 Meetings**

Contractor shall attend all meetings as directed by BPCA or Construction Manager, including meetings set forth in Section 26.3, and shall be represented at such meetings by a person having knowledge of the Work and authorized to act for Contractor at all times. If at any time such person is not satisfactory to BPCA or Construction Manager,

Contractor shall, if requested by BPCA, be represented by another person satisfactory to BPCA, having knowledge of the Work and authorized to act for Contractor at all times.

**6.6**     Related Work

Contractor shall examine the Contract Documents for related work to ascertain the relationship of such work to the Work under the Contract Documents.

**6.7**     Surveys and Layout

Unless otherwise expressly provided in this Agreement, Owner shall furnish Contractor survey points necessary for the Work, but Contractor shall lay out the Work.

**6.8**     Reports and Access

Contractor shall furnish BPCA and Construction Manager with daily and monthly manpower reports on forms provided by Construction Manager and such other reports as may be required by BPCA or Construction Manager. BPCA, Construction Manager and Engineer shall have full and free access to the shops, plants and factories of Contractor, any Materialmen and Subcontractors to inform themselves as to the progress of the Work.

**6.9**     Financial Information

Until completion of the Work, Contractor agrees to notify BPCA forthwith in writing of any event which has caused or is reasonably anticipated to cause a material adverse change in Contractor's business or financial condition from that shown in the then most recent financial statements furnished by Contractor to BPCA. Contractor has furnished to BPCA financial statements regarding the period from January 1, 2010 through December 31, 2010. Contractor agrees to furnish to BPCA, at BPCA's request from time to time hereafter, quarterly, or annual financial statements (which shall be audited, if such is the practice of Contractor for financial statements covering the applicable period) and such additional information as BPCA shall deem necessary or desirable to satisfy itself of Contractor's continuing ability to complete the Work.

**ARTICLE 7 - CONTRACT ADMINISTRATION**

**7.1**     Engineer's Responsibilities and Functions

Contractor acknowledges that the role of Engineer with respect to the Work shall be as specified in this Agreement. Contractor will comply with the instructions of Engineer pursuant hereto.

Engineer's duties and services shall in no way supersede or dilute Contractor's

obligation to perform and complete the Work in conformity with the Contract Documents.

## **7.2     Construction Manager's Responsibilities and Functions**

(a)     Construction Manager shall coordinate and schedule construction to insure that the completion of the Project is on schedule and that the Project is well constructed in accordance with the Contract Documents. Contractor acknowledges that the role of Construction Manager with respect to the Work shall be as specified in this Agreement. Contractor hereby agrees to comply with the directions and instructions of Construction Manager.

(b)     Construction Manager shall call for meetings of Contractor, other contractors, Subcontractors and Materialmen as necessary for the proper coordination of the Work. Such meetings shall be held at the Site on regular working days, during regular working hours, unless otherwise directed by BPCA. Attendance shall be mandatory for all parties notified to attend.

## **7.3     Scope of Responsibility of Engineer and Construction Manager**

In no event shall any act or omission on the part of the Construction Manager or Engineer relieve Contractor of its obligation to perform the Work in full compliance with the Contract Documents. Neither Engineer nor Construction Manager will be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, and neither will be responsible for Contractor's failure to carry out the Work in accordance with the Contract Documents or the failure to fulfill any of the requirements of this Agreement.

# **ARTICLE 8 - INSPECTION AND ACCEPTANCE**

## **8.1     Access to the Work**

BPCA, Construction Manager, Engineer or their authorized representatives shall at all times have access to and the right to observe the Work and all facilities where the Work or any part thereof is being fabricated or stored, and Contractor shall provide proper facilities for such access and observation.

## **8.2     Notice of Required Inspections and Tests**

If the Contract Documents, or any laws, rules, ordinances or regulations, require that any Work be inspected or tested, Contractor shall give BPCA, Construction Manager and Engineer timely notice of readiness of the Work for inspection or testing and the date fixed for such inspection or testing.

## **8.3     Additional Inspections and Tests**

(a)     Whenever, in the opinion of BPCA, Construction Manager or Engineer, it is



desirable to require inspection or testing of the Work or its individual components in addition to any such testing which may be originally included in the Work, they shall have authority to do so whether or not such Work be then fabricated, installed, covered or completed. If such inspection or testing reveals a failure of the Work to comply (1) with the requirements of the Contract Documents, or (2) with respect to the performance of the Work, with laws, ordinances, rules, regulations or orders of any public authority having jurisdiction, Contractor shall bear all costs thereof, including Engineer's and Construction Manager's additional services made necessary by such failure; otherwise BPCA shall bear such costs, and an appropriate Change Order shall be issued.

(b) In the event that any item of the Work fails inspection or testing, BPCA, Engineer or Construction Manager may require inspection or testing of any or all of the other items of the Work at Contractor's cost and expense.

#### **8.4 Uncovering of Work**

(a) If any Work shall be covered or concealed contrary to the request of BPCA, Engineer or Construction Manager, such Work shall, if required by BPCA, Engineer or Construction Manager, be uncovered by examination, inspection or testing. Any examination, testing or inspection shall not relieve Contractor of the responsibility to maintain quality control over the Work. If any test results are below specified minimums, BPCA may order additional testing. The cost of such additional examination, inspection or testing, any additional professional services required, and any other expenses incurred by BPCA as a result of such examination, inspection or testing shall be borne by Contractor.

(b) In the event that a typical detail fails inspection or testing, BPCA, Engineer or Construction Manager may require inspection or testing of any or all of other such typical details at Contractor's cost and expense.

#### **8.5 Correction of Work**

Any Work not approved by BPCA, Engineer and Construction Manager shall immediately be reconstructed, made good, replaced or corrected by Contractor including all Work of other contractors destroyed or damaged by such removal or replacement. Rejected material shall be removed immediately from the Site. Acceptance of material and workmanship by BPCA shall not relieve Contractor from Contractor's obligation to replace all Work which is not in full compliance with the Contract Documents.

#### **8.6 Certificate of Substantial Completion**

Upon their receipt of written notice from Contractor stating that in Contractor's estimation the Work has been substantially performed in conformity with the Contract Documents, Engineer and/or Construction Manager shall perform an inspection for the purposes of determining whether the Work has been so performed, commencing such inspection within ten (10) days of receipt of such notice and completing it with all due diligence. When Engineer and/or Construction Manager find upon inspection that, to the best

of their knowledge and belief, the Work is so performed, they shall prepare and deliver to BPCA for delivery to Contractor a certificate specifying the date of substantial completion of the Work for purposes of this Agreement ("Certificate of Substantial Completion") and a punch list of items of Work remaining to be completed prior to the completion of the Work.

The delivery of a Certificate of Substantial Completion shall not terminate or alter Contractor's obligation under this Agreement to complete the Work in conformity with the Contract Documents and to fulfill all terms and conditions of this Agreement.

#### **8.7     Completion of Work and Acceptance**

Upon their receipt of written notice from Contractor stating its belief that the Work has been fully performed in conformity with the Contract Documents, and confirming that Contractor has completed any items of Work previously noted to it by Engineer and Construction Manager as not having been acceptably completed in any punch list or otherwise, Engineer and Construction Manager shall perform an inspection for purposes of determining whether the Work has been so performed. Engineer and Construction Manager shall commence such inspection within ten (10) days of receipt of such notice and shall pursue and complete it with all due diligence. When BPCA and Construction Manager find upon inspection that, to the best of their knowledge and belief, the Work has been so performed, they shall prepare a certificate of final completion, and, upon delivery by BPCA to Contractor of said certificate, the Work shall be deemed to be finally accepted by BPCA (such delivery of the certificate of final completion to Contractor is hereinafter referred to as "Final Acceptance").

### **ARTICLE 9 - CHANGES IN THE WORK**

#### **9.1     Change Orders**

(a) BPCA may, at any time, in any quantity or amount, without notice to the sureties and without invalidating or abandoning the contract, order Extra Work. Notwithstanding the terms of subSection 3.1(a) hereof, BPCA may, but shall be under no obligation to, change the manner, sequence or method of performance of the Work or direct acceleration of the Work and Contractor shall, therefor, be entitled to a Change Order (as defined in Section 9.1(b)) provided that such change or acceleration was not ordered to maintain the Progress Schedule or to coordinate the Work with the work of other contractors. Contractor shall not perform any Extra Work or change in the Work unless it has received a Change Order or Field Order (as defined in Section 9.3) duly signed as hereinafter provided. Contractor shall be obligated to perform changed Work promptly in conformity with any Change Order or Field Order issued in accordance herewith.

(b) "Change Order" shall mean a written order issued by the Authority to Contractor after execution of this Agreement, authorizing or requiring:

- (i) Extra Work,
- (ii) items which were erroneously deleted or omitted from the Work,

- (iii) items which were included in the Work but were subsequently deleted,
- (iv) an extension of time to complete Work,
- (v) an increase or reduction in the payment to Contractor;, or
- (vi) any other change in the Contract Documents or in the sequence of performing or phasing of the Work.

(c) All Change Orders shall be prepared, signed and issued by Construction Manager at the instruction of BPCA, and to be valid, must be countersigned by BPCA and Contractor.

## **9.2 Change in Contract Price and Time**

(a) The Contract Price will not be revised due to any change of the Work except as and to the extent expressly provided in the Change Orders. The amount by which the Contract Price is to be increased or decreased by any Change Order shall be determined by BPCA and Construction Manager by one or more of the following methods:

- (1) by accepting an amount agreed upon by BPCA and Contractor;
- (2) by applying the applicable unit prices and alternates where the Work involved is covered by unit prices in this Agreement;
- (3) by receiving from Contractor a detailed breakdown satisfactory to BPCA and Construction Manager, including actual time slips and invoices, itemizing the direct cost of labor and material to perform the changed Work and adding thereto fifteen percent (15%) to cover profit and all indirect and overhead costs, except that where the changed Work is performed by a Subcontractor or Materialman, the direct cost of labor and material to perform the changed Work plus fifteen percent (15%) for profit and all indirect and overhead costs to Subcontractor or Materialman and an additional sum for profit and all indirect and overhead costs of Contractor equal to ten percent (10%) of the first \$100,000, five percent (5%) of the second \$100,000 and three percent (3%) of any cost in excess of \$200,000 to Contractor. No allowance shall be paid on the premium portion of overtime pay. Where the changed Work involves both an increase and a reduction in any contract Work, the above percentage override shall be applied only on the amount, if any, by which the cost of the increase exceeds the cost of the reduction.
- (4) by receiving from Contractor a true copy of its bid work sheets to determine the contract price for the elimination of any contract Work.

The amount of reduction shall not include the overhead or profit of Contractor for the eliminated Work. Should Contractor fail to furnish BPCA with such bid work sheets, then Construction Manager shall determine the amount of the reduction. The determination of Construction Manager shall be final and binding unless erroneously or fraudulently arrived at, or arbitrary and capricious;

- (5) by adding to the Contract Price only the amount of the premium portion of overtime pay resulting from an acceleration of the Work; or
- (6) by adding to the Contract Price, the actual incremental labor and equipment costs incurred by the Contractor resulting from a change in the manner, sequence or method of performing the Work.

(b) The compensation specified in a Change Order shall constitute a release and full payment for the Extra Work covered thereby and for any delay and disruption cost or expense occasioned by reason of said change in the Work.

(c) No time extension shall be granted Contractor by reason of the issuance of any Change Order unless it is expressly stated therein.

### **9.3 Field Orders**

Construction Manager shall have the authority to order minor changes in the Work by the issuance of written field orders ("Field Orders"), which may be issued without prior approval by BPCA. Field Orders must be countersigned by Contractor. Minor changes in the Work for purposes of this Section shall mean only changes which do not necessitate or warrant any revision in the Contract Price in excess of \$5,000 or affect the time of performance of Contractor's Work, any change in the basic character or design of the Project, or deviation from design standards established for the Project. Except as otherwise provided in the preceding sentence relating to an increase in the Contract Price, no claim for an increase in the Contract Price may be based upon any Field Order. If Contractor, on a receipt of a Field Order, claims that the change of Work involved necessitates a Change Order, it shall proceed in accordance with the Field Order under protest and notify BPCA immediately of its claim for additional compensation for Extra Work pursuant to Article 14.

### **9.4 Changed Conditions**

(a) Contractor shall promptly, and before such conditions are disturbed, notify Construction Manager of: (1) subsurface or latent physical conditions differing materially from those indicated in the Contract Documents, or (2) unknown physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Agreement. Construction Manager shall promptly investigate the conditions, and if it finds that such conditions do materially so differ and cause an increase or decrease in Contractor's cost of, or the time required for, performance of any part of the Work under this Agreement, Contractor shall be paid in the manner provided

for payment with respect to any Change Order and receive, if warranted, a time extension.

(b) No claim of contractor under this clause shall be allowed unless Contractor has given the notice required in subSection (a) above.

## **ARTICLE 10 - SUBCONTRACTS AND PURCHASE ORDERS**

### **10.1 Selection of Subcontractors and Materialmen and Approval of Subcontracts and Purchase Orders**

(a) Contractor shall submit to Construction Manager, within 21 calendar days of notice to proceed, the names of all persons with whom it has contracted or intends to contract or hereafter contracts with respect to the Work.

(b) Except as specifically provided herein, Contractor shall not enter into any Subcontracts or issue any Purchase Orders (as hereinafter defined) to any Materialmen in connection with the performance of Contractor's obligations hereunder without the prior written consent of BPCA to the use of each such Subcontractor or Materialman, and to the agreement to be entered into between Contractor and any such Subcontractor or Materialman. Contractor shall inform BPCA in writing of any interest it may have in a proposed Subcontractor or Materialman. No such consent by BPCA, or employment, contract, or use by Contractor, shall relieve Contractor of any of its obligations hereunder.

(c) Contractor shall be responsible for the performance of the Work of any Subcontractors or Materialmen engaged, including the maintenance of schedules, coordination of their Work and resolutions of all differences between or among Contractor and any Subcontractors. It is expressly understood and agreed that any and all Subcontractors or Materialmen engaged by Contractor hereunder shall at all times be deemed engaged by Contractor and not by BPCA.

(d) Upon the request of BPCA, Contractor shall cause any Subcontractor or Materialman employed by the Contractor in connection with this Agreement to execute a copy of the Agreement wherein such Subcontractor or Materialman shall acknowledge that it has read and is fully familiar with the terms and provisions hereof and agrees to be bound thereby as such terms and provisions are or may be applicable to such Subcontractors or Materialmen.

(e) Contractor shall submit to BPCA promptly following execution, three copies of every revision, amendment, modification or cancellation executed or issued by Contractor with respect to any Subcontractor or Materialman. BPCA is not obligated to make payment on account of Work performed or Materials furnished by a Subcontractor or a Materialman under a Subcontract or contract for construction supplies or Materials (hereinafter "Purchase Order(s)") unless there shall have been filed with BPCA prior to the submission of a Requisition for each payment, three copies of such Subcontract or Purchase Order containing the provisions required by this Agreement to be contained therein, except as may otherwise be specified by BPCA with respect to Purchase Orders for minor purchases.

## **10.2    Access by BPCA and Others**

Contractor shall include a provision in all Subcontracts and Purchase Orders stating that, to permit verification of Contractor's costs, BPCA shall have the right to have its representatives inspect and audit the books of account and records of the Subcontractor and Materialmen, including the right to make excerpts from such books and records. All payments by Contractor to a Subcontractor or Materialman shall be by check specifically indicating that payment is attributable to this Agreement. Contractor shall include a provision in all Subcontracts and Purchase Orders that will enable representatives of the State of New York, Construction Manager and BPCA, as the case may be, to obtain access during working hours to the appropriate books of account and records of the Subcontractors or Materialmen relating to the Work to determine if there is compliance with the requirements of law or this Agreement.

## **10.3    Retainage**

Contractor may provide for a retainage under any of its Subcontracts or Purchase Orders provided that where a Subcontract or Purchase Order provides for a retainage, the retainage shall be no greater in percentage than that provided for under Sections 5.1 or 5.7 hereof with respect to Contractor itself, unless otherwise approved in writing by BPCA. Contractor shall submit with each Requisition a statement setting forth the amounts of all retainage, if any, under its Subcontracts and Purchase Orders.

## **10.4    Miscellaneous**

(a) Contractor shall be fully responsible for the work, acts and omissions of Subcontractors and Materialmen, and of persons either directly or indirectly employed by Subcontractors and Materialmen.

(b) Contractor's use of Subcontractors and Materialmen shall not diminish Contractor's obligation to complete the Work in accordance with the Contract Documents. Contractor shall control and coordinate the work of Subcontractors and Materialmen.

(c) Nothing contained in this Agreement shall create any contractual relationship between Subcontractors or Materialmen and BPCA, Construction Manager or Engineer. Nothing in this Section shall obligate BPCA to pay or to see to the payment of any sums to any Subcontractor or Materialmen.

(d) Contractor shall include a provision in all Subcontracts and Purchase Orders exceeding \$50,000, requiring the Subcontractor or Materialman, if requested by BPCA, until the Subcontractor or Materialman finishes its portion of the Work, to deliver to Contractor unaudited and, if available, audited financial statements of the Subcontractor or Materialman similar to the obligation of Contractor under Section 6.8 and promptly upon receipt thereof Contractor shall deliver copies thereof to BPCA.

## **ARTICLE 11 - ASSIGNMENT**

### **11.1    No Assignment of Duties**

Contractor shall not assign this Agreement or the performance of any obligations of Contractor under this Agreement, nor enter into any Subcontract in respect of the Work or any part thereof except in compliance with Article 10 hereof and with the prior written consent of BPCA, and each and every such assignment, Purchase Order and Subcontract without such compliance and consent shall be void and shall revoke and annul this Agreement.

### **11.2    No Assignment of Monies**

Contractor shall not assign any monies payable hereunder nor execute and deliver any order for payment unless Contractor and the assignee shall have complied with the following terms and conditions:

(a)     the assignee shall be a commercial bank or finance company regularly engaged in the business of provided financing to construction contractors and shall be providing such financing to Contractor;

(b)     the assignee shall, simultaneously with the assignment, execute and deliver to BPCA an undertaking, in favor of BPCA, in form and substance satisfactory to BPCA, providing that:

(1)     assignee will cause Contractor to apply for trust purposes, as defined in Article 3-A of the Lien Law of the State of New York (the "Lien Law"), all funds advanced by assignee to Contractor;

(2)     assignee will file a copy of the assignment, containing the covenant required by the Lien Law, with the County Clerk of New York County;

(c)     the assignee shall agree with BPCA in writing that BPCA and Contractor may modify any of the terms of this Agreement, including any of the terms of payment, without the consent of assignee;

(d)     the assignee shall agree with BPCA in writing that after the effective date of the assignment, BPCA may make payment directly to any Subcontractor or Materialman without any liability to the assignee;

(e)     the assignee shall agree with BPCA in writing that the assignee shall require and cause Contractor to keep his books and records in the form and manner described in Section 75 of the Lien Law; and

(f)     the assignee shall agree with BPCA in writing that the assignee will indemnify and hold BPCA harmless from and against any loss, claim or expense incurred as a result of any failure of performance in accordance with the terms of such undertaking.

### **11.3 Assignment by BPCA**

This Agreement or any rights of BPCA under this Agreement, including any guaranties or warranties of workmanship or material, may at any time be assigned by BPCA to the State of New York or any political subdivision, public corporation or agency of the State.

## **ARTICLE 12 - MECHANICS' LIENS AND CLAIMS**

If any mechanic's lien or other claim shall be filed for or on account of the Work, Contractor shall promptly discharge such lien or claim.

## **ARTICLE 13 – INSURANCE AND CONTRACT SECURITY**

### **13.1 Insurance**

(a) Contractor shall procure and maintain all of the insurance required under this Article 13 until Final Acceptance of the Work, except with respect to Completed Operations Coverage, as described in 13.1(f)(3) below.

(b) Contractor shall not commence physical performance of the Work at the Site until Contractor has obtained, and required each Subcontractor to obtain, all the insurance required under this Article and until it has furnished to BPCA the certificate or certificates of insurance required by Section 13.1(c) hereof.

(c) Contractor shall furnish to BPCA, before or upon execution of this Agreement, attention: **XXXXXXXXXXXXXXXXXXXX**, a certificate or certificates of the insurance required under this Article and, upon BPCA's request, certified copies of the original policies of insurance, within the time period required by BPCA and before commencing physical performance of the Work at the Site. Such certificate or certificates shall be in form satisfactory to BPCA, shall list the various coverages and shall contain, in addition to any other provisions required hereby, a provision that the policy shall not be changed, canceled or reduced and that it shall be automatically renewed upon expiration and continued in force until two years after Final Acceptance unless BPCA is given 90 days' written notice to the contrary. Such policies and certificates should name as additional insureds BPCA, Battery Park City Parks Conservancy Corporation (the "Conservancy"), the State of New York, Construction Manager, and Engineer.

(d) All insurance required to be procured and maintained must be procured from insurance companies which have a financial rating by A.M. Best Company as published in the most current key rating guide of "A-X" or better and which are authorized to do business in the State of New York.

(e) If at any time any of the required insurance policies should be canceled,



terminated or modified so that insurance is not in effect as required, then, if BPCA shall so direct, Contractor shall suspend performance of the Work. If the Work is not suspended then BPCA may, at BPCA's option, obtain insurance affording coverage equal to that required, the cost of such insurance to be payable by Contractor to BPCA.

- (f) Contractor and each Subcontractor shall secure in form satisfactory to BPCA:
- (1) Worker's Compensation and Employer's Liability Insurance, including USL & H (United States Longshoreman & Harbor Workers) and Jones Act Coverages, during the Term for the benefit of such employees as are required to be insured by the applicable provisions of law and voluntary compensation for employees excluded from statutory benefits. Employer's Liability Insurance and benefits resulting from disease shall not be less than an annual aggregate amount of \$1,000,000 for each consecutive 12-month period.
  - (2) Disability Benefit Insurance during the life of this Agreement for the benefit of such employees as are required to be insured by the applicable provisions of law.
  - (3) Commercial General Liability Insurance as follows:

Standard commercial general liability insurance policy with contractual, products and completed operations and explosion, blasting, collapse and underground damage liability coverages, under the occurrence policy format, issued to and covering the liability of Contractor for all the Work and operations relating thereto and all obligations assumed by Contractor under this Agreement in an amount which shall not be less than the following limits:

Combined Single Limits, Bodily Injury  
and Property Damage Liability

\$XXXXXXXXXX per each occurrence and \$XXXXXXXXXX in the aggregate.

The completed operations coverage shall continue in force until three years after Final Acceptance of the Work and shall contain, in addition to any other provisions required hereby, a provision that the policy shall not be changed, canceled or reduced. As a condition precedent to the making of Final Payment, Contractor shall furnish BPCA with a certified copy of the completed operations policy.

- (4) Automobile Liability Insurance as follows:

A policy covering the use in connection with the Work of all owned,

non-owned and hired vehicles bearing, or under the circumstances under which such vehicles are being used being required by the Motor Vehicle Laws of the State of New York to bear license plates. The coverage under such policy shall not be less than the following limits:

Combined Single Limits,  
Bodily Injury and Property Damage Liability

\$XXXXXXXXXXXX per each occurrence.

- (5) Marine Protection and Indemnity ("P&I") insurance of not less than XXXXXXXXXXXXXXX per occurrence, if Contractor or any of its Subcontractors utilizes floating equipment, barges or floats, or performs marine-related construction, covering any and all claims for personal injury, death and property damage arising out of or in connection with this Agreement.
- (6) Pollution Liability Insurance, on an occurrence basis, providing coverage for bodily injury liability, property damage or environmental damage caused by pollution conditions with a limit of liability of not less than XXXXXXXXXXXXXXX per occurrence and in the aggregate. The policy shall include coverage for environmental clean-up on land, in air and on water. The policy shall include coverage for completed operations for two (2) years after the completion of the performance of the Work, gradual and sudden and accidental pollution coverage, with a time element of no less than seven (7) days' notice and thirty (30) days' reporting. The policy shall not contain a sunset provision, or any other provision, which would prohibit the reporting of a claim and the subsequent defense and indemnity that would normally be provided by the policy. The policy shall provide transportation coverage for the hauling of hazardous materials from the Project Site to the final disposition location.
- (7) Vessel Pollution Liability Insurance, on an occurrence basis, providing coverage for bodily injury liability, property damage or environmental damage caused by pollution conditions, emanating from any floating equipment, barges or floats, utilized by Contractor or SubContractors in the performance of Marine related construction, with a limit of liability of not less than XXXXXXXXXXXXXXX per occurrence and in the aggregate. The policy shall include coverage for environmental clean-up on land, in air and on water.
- (8) Umbrella Liability Insurance, excess of general liability, automobile liability, Protection and Indemnity ("Marine Liability"), vessel pollution and Employer's Liability, in an amount of not less than XXXXXXXXXX.

(g) The insurance required under subSections 13.1 (f) 3, 4 and 5 shall be of a type which shall protect Contractor and Subcontractors, respectively, against damage claims which may arise from operations under this Agreement, whether such operations be by the insured or by anyone directly or indirectly employed by the insured. Each of the aforesaid policies shall provide that the insurance company or an attorney approved and retained by the insurance company shall defend any suit or proceeding against BPCA or any officers, agents or employees of BPCA whether or not such suit is groundless, false or fraudulent. Notwithstanding the foregoing, BPCA shall have the right to engage its own attorneys for the purpose of defending any suit or proceeding against it or its respective officers, agents or employees, and, in such event, Contractor shall, indemnify BPCA for all attorneys' fees and disbursements and other costs incurred by it arising out of, or incurred in connection with, any such defense. The said insurance shall name BPCA, the Conservancy, the State of New York, Construction Manager and Engineer as additional insured as respects this location and shall, where applicable, be written on an occurrence basis and shall contain a provision that it is primary and that any similar insurance which BPCA, the Conservancy, the State of New York, Construction Manager, and Engineer Contractor or Subcontractor elect to carry for their own benefit is secondary or excess and not contributing insurance.

(h) BPCA, at BPCA's cost and expense, may, at its sole option, procure and maintain such insurance as shall in the opinion of BPCA, protect BPCA from contingent liability of BPCA to others for damages arising from bodily injury, including death and property damages which may arise from operations under this Agreement. The procurement and maintenance of such insurance by BPCA shall not in any way be construed or be deemed to relieve Contractor from, or to be a limitation on the nature or extent of, such obligations and risk.

(i) BPCA shall, at all times during the period of construction and until completion and Final Acceptance of the Work procure and maintain at the cost and expense of BPCA "Builders Risk" insurance, or its functional equivalent, against direct physical loss or damage to the Work and on all Materials to be made a part of the Work in the names of BPCA, Construction Manager, Contractor and Subcontractors, said amount of insurance to be procured and maintained on a one hundred percentage (100%) completed value basis on the insurable portion of the Work, which insurance shall contain a deductible provision for all losses except flood and earthquake in the amount of \$10,000 and a deductible provision for flood and earthquake in the amount of \$10,000. Owner recognizes that the deductible applicable to flood and earthquake may be greater than \$10,000 due to insurance market conditions and shall notify Contractor if such deductible is greater than \$10,000. Losses up to and including the amounts of such deductible provisions shall be borne by Contractor. The insurance specified above may, in certain instances, include other parties as named insureds, as the interests of such parties may appear. Loss, if any, is to be made adjustable with and payable to BPCA on behalf and for the named insureds as the interests of such insureds may appear. BPCA shall, in BPCA's sole discretion, have power to adjust and to settle with the insureds any loss or claim under such insurance. The above is not intended to be a complete, full or accurate description of the coverage provided by the policies of insurance, copies of which are on file with BPCA. This subSection (i) is not intended to create or give any rights to Contractor or Subcontractors other

than those which may be made available to such Contractors or Subcontractors under the terms of such policies. BPCA assumes no obligation to obtain insurance other than that evidenced by said policies. Contractor and Subcontractors shall not violate or permit to be violated any term or condition of such policies and shall at all times satisfy the safety requirements of BPCA and of the insurance companies issuing the aforementioned policies. The Contractor shall, upon notification by BPCA, obtain such insurance at BPCA's expense on a date determined by BPCA, which date shall not be less than (thirty) (30) days after notice to Contractor of such determination by the BPCA.

### **13.2    Effect of Procurement of Insurance**

Neither the procurement nor the maintenance of any type of insurance by BPCA or Contractor shall in any way be construed or be deemed to limit, discharge, waive or release Contractor from any of the obligations and risks impressed upon Contractor by this Agreement or to be a limitation on the nature or extent of such obligations and risks.

### **13.3    Contract Security**

Contractor shall, if it already has not done so, furnish to BPCA, with the execution of this Agreement, to BPCA, a bond in an amount at least equal to one hundred percent (100%) of the Contract Price for performance of the Work (the "Performance Bond") and also a labor and material payment bond in an amount at least equal to one hundred percent (100%) of the Contract Price for the payment of all persons performing labor or providing Materials in connection with the Work (the "Payment Bond").

### **13.4    Additional or Substitute Bond**

If at any time BPCA shall be or shall become dissatisfied with any surety or sureties then obligated upon the Performance Bond or the Payment Bond, or if for any other reason such bonds shall cease to be adequate security to BPCA, Contractor shall within five (5) days after notice from BPCA to do so, substitute an acceptable bond or bonds in such form and sum and signed by such other surety or sureties as may be satisfactory to BPCA, except that the penal sum of said bond shall not exceed the Contract Price as adjusted by Change Orders. No further payments shall be deemed due nor shall be made until the new surety or sureties shall have furnished such an acceptable bond or bonds to BPCA.

## **ARTICLE 14 - CLAIMS FOR EXTRA WORK**

(a) If Contractor is of the opinion that (i) any work which it has been ordered to perform is Extra Work and not Work as set forth in the Contract Documents, (ii) any action or omission of BPCA, Construction Manager or Engineer is contrary to the terms and provisions of the Contract Documents and will require the performance of Extra Work or will cause additional expense to Contractor or (iii) any determination, order or directive of BPCA, Construction Manager or Engineer is contrary to the terms of the Contract Documents and will require the performance of Extra Work or will cause additional expense to Contractor,

Contractor shall:

- (1) not suspend Work but promptly comply with each determination, order or directive and proceed diligently with the performance of the Work in accordance with BPCA's instructions,
- (2) notify BPCA, Construction Manager and Engineer in writing within 72 hours of such determination, order or directive of its reasons for its opinion and request a final determination thereon by BPCA, and
- (3) present to the Construction Manager for signature daily time and material tickets to confirm quantities of Material and hours of labor in cases where Contractor is performing the Work which it considers to be Extra Work.

If BPCA determines that (x) work is Work required to be performed hereunder and not Extra Work, (y) action or omission is proper or (z) a determination, order or directive is proper, Contractor, in order to reserve its right to claim compensation for or damages resulting from the performance of such work or the compliance with such determination, order or directive, must notify BPCA in writing within three (3) working days after receiving notice of BPCA's determination that it is performing such work or complying with such determination, order or directive under protest.

In addition to the foregoing, Contractor must submit to BPCA, Construction Manager and Engineer within thirty (30) days after it has performed such work or complied with such determination, order or directive, a detailed statement of the extra expense claimed to have been incurred and of any claimed damages resulting from the performance of such work or the compliance with such determination, order or directive.

(b) No claim for Extra Work shall be allowed unless the same was done pursuant to written order approved in writing by BPCA. Contractor's failure to comply with any provision of this Article:

- (1) shall constitute a conclusive and binding determination on the part of Contractor that such action, omission, determination, order or directive does not involve Extra Work, has not caused extra expense to Contractor, and is not contrary to the terms and provisions of the Contract Documents; and
- (2) shall constitute an irrevocable waiver by Contractor of any claim for compensation for or damages resulting from the performance of such work or the compliance with such determination, order or directive.

(c) The value of claims for Extra Work, if allowed, shall be determined by the methods described in Section 9.2.

## **ARTICLE 15 - TERMINATION**

### **15.1 Termination for Cause**

(a) If any of the following events shall occur (an “Event of Default”) then BPCA or Construction Manager may serve written notice upon Contractor and upon Contractor’s surety, if any, terminating this Agreement at a specified date. The notice shall contain the reasons for termination but shall not be effective to terminate this Agreement if Contractor cures all Events of Default stated in the notice prior to the date specified in the notice of termination.

- (1) Contractor shall violate any substantial provision of this Agreement, including, without limitation, by failing to maintain the Progress Schedule then in effect in accordance with, or failing to discharge any of its responsibilities under, Section 3.1(d) hereof, or by failing to indemnify and hold harmless BPCA (as required by Sections 3.1(e), 3.2, 17.5, 21.1, 21.2., 22(c) or any other provision of this Agreement) from and against any and all claims, liabilities, losses, costs or damages arising out of Contractor’s performance of, or failure to perform, its obligations under this Agreement in accordance with its terms; or
- (2) any material adverse change shall take place in the financial condition of the Contractor;
- (3) any action shall be taken by Contractor which would result in it becoming the subject of any insolvency proceeding. The term “insolvency proceeding” as used herein shall include the filing of a petition for relief under Title 11 of the United States Code by Contractor or the consent, acquiescence or taking of any action by Contractor, or the filing by or against Contractor of petition or action, looking to or seeking any reorganization, arrangement, composition, readjustment, liquidation, dissolution, or similar relief under any other regulation; or the appointment, with or without the consent of Contractor, of any trustee, custodian, receiver or liquidator of Contractor of any property or assets of Contractor; or Contractor’s making of an assignment for the benefit of creditors or its inability to pay its debts as they become due.
- (4) Contractor shall have misrepresented or omitted information in its submission of the Statement of Qualifications of Contractor submitted by Contractor to BPCA in connection with this Agreement; or
- (5) Any partner, principal, director, officer or shareholder owning in excess of five percent (5%) of the stock of Contractor shall have been convicted of a felony.

(b) Upon the occurrence of an Event of Default, at Owner's option exercised by written notice to Contractor, title to any or all of Contractor's Materials, equipment, work in process and dies and tools, whether on the Site or off site, which are necessary or useful in completing the Work shall vest in Owner and Owner may take possession of and utilize the same for completion of the Work; provided that title to such items shall revert to Contractor upon effectuation of a cure of the Event of Default prior to the termination of this Agreement. If no cure has been effected, this Agreement has been terminated and Owner has taken possession of the same, then after Owner has taken possession and the Work shall have been completed by or on behalf of Owner, Owner shall pay to Contractor, in respect to the items for which title has vested in Owner, an amount equal to the sum of:

- (1) the direct costs of Contractor for such materials and Work in progress, and
- (2) the depreciated book value of such tools and dies less, if Owner elects to return the tools and dies to Contractor, the salvage value thereof. Owner shall have the right to set off against such payment due to Contractor any amounts then due and payable by Contractor to Owner which may accrue as damages owing by Contractor to Owner under the terms of this Agreement. Contractor shall execute any further documents (including Form UCC-1 Financing Statements to give public notice of the potential ownership interest of Owner as set forth herein) required by Owner to confirm the terms of this subSection 15.1(b).

(c) Upon termination of this Agreement, BPCA shall have the right, in addition to all other rights and remedies, to complete or have the Work completed by such means and in such manner, by contract or otherwise, with or without public letting as permitted by law, as BPCA deems advisable. BPCA may deduct any loss it incurs thereby from any payment then or thereafter due to Contractor without prejudice to any other remedy BPCA may have.

(d) Immediately upon termination in accordance with the provisions of this Section, each and every Subcontract and Purchase Order entered into by Contractor shall, at BPCA's option, be automatically assigned to BPCA, and Contractor shall insert a provision to this effect in all Subcontracts and Purchase Orders. In the event that it shall be determined that a termination under this paragraph was wrongful or not justified, such termination shall be conclusively deemed to be a termination for convenience of BPCA under Section 15.2 hereof and the sole right, remedy and recourse of Contractor against BPCA shall be governed and determined by Section 15.2 hereof.

(e) Contractor shall, upon the date when such termination shall take effect, promptly notify the union or unions, if any, having jurisdiction over the work by its employees that it releases the Project and consents that the Work be performed by others and Contractor expressly authorizes BPCA to notify the union or unions of such release in the name of Contractor. The failure, neglect or refusal of Contractor to issue such release or the disclaimer by it of the effectiveness of the release issued by BPCA shall subject Contractor to all damages sustained by BPCA.

(f) If this Agreement shall have been terminated by BPCA pursuant to this Section 15.1 and it shall be finally determined by a court of competent jurisdiction that adequate grounds for such termination did not exist, then such termination shall be deemed a termination for convenience as provided hereunder.

## **15.2 Termination for Convenience of BPCA**

(a) BPCA, at any time, may terminate this Agreement for its own convenience. Any such termination shall be effected by delivering to Contractor a notice of termination specifying the extent to which performance of Contractor's Work under the Contract is terminated and the date upon which such termination becomes effective. Upon receipt of the notice of termination, Contractor shall:

- (1) stop work under this Agreement on the date specified in the notice of termination;
- (2) place no further Purchase Orders or Subcontracts for Materials, services or facilities;
- (3) unless directed otherwise by BPCA, terminate all Purchase Orders and Subcontracts;
- (4) assign to BPCA, in the manner, at the times, and to the extent directed by Construction Manager, all of the right, title and interest of Contractor under the Purchase Orders and Subcontracts so terminated, in which case BPCA shall have the right, in its sole discretion, to settle or pay any or all claims arising out of the termination of such Purchase Orders and Subcontracts;
- (5) to the extent required by Construction Manager, settle all outstanding liabilities and all claims arising out of such termination of Purchase Orders and Subcontracts, with the approval or ratification of Construction Manager, which approval or ratification shall be final for all the purposes of this Section 15.2;
- (6) transfer title to BPCA and deliver in the manner, at the time, and to the extent, if any, directed by the Construction Manager (i) the fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced as a part of, or acquired in connection with the performance of, the Work terminated by the notice of termination, and (ii) the completed or partially completed plans, drawings, information and other property, which if this Agreement had been completed, would have been required to be furnished to BPCA;
- (7) take such action as may be necessary, or as the Construction Manager



may direct, for the protection and preservation of the property related to this Agreement which is in the possession of Contractor and in which BPCA has or may acquire an interest.

(b) In the event of a termination of this Agreement pursuant to this Section 15.2, Contractor shall be paid by BPCA only the apportioned Contract Price for Work installed, the fair and reasonable value of Materials stored on the Site and under order for which Contractor is responsible for payment, less any sums properly deductible by BPCA, except that in no event shall Contractor be entitled to compensation in excess of the total Contract Price.

### **15.3 Suspension of Work**

(a) BPCA may at any time and for any reason direct Contractor to suspend, stop, or interrupt the Work or any part thereof for a period of time. Such direction shall be in writing and shall specify the period during which the Work is to be stopped. Upon receipt of a direction of suspension, Contractor shall, as soon as practicable, cease performance of the Work as ordered and take immediate affirmative measures to protect the Work from loss or damage. Contractor shall resume the Work upon the date specified in such direction or upon such other date as BPCA may thereafter specify in writing.

(b) The period during which the Work shall have been suspended, stopped or interrupted may, if warranted, be added to the time fixed for performance. A suspension, stoppage or interruption of the Work pursuant to this provision shall not give rise to any claim against BPCA for additional compensation.

## **ARTICLE 16 - COMPOSITE DRAWINGS AND COOPERATION**

Where Contractor shall perform Work in close proximity to work of other contractors or subcontractors, or where there is evidence that Contractor's Work may interfere with work of other contractors, or subcontractors, Contractor shall assist in arranging space conditions to make satisfactory adjustment for the performance of such work and the Work. Contractor shall prepare composite scale working drawings and Sections as directed by Construction Manager, clearly showing how Contractor's Work is to be performed in relation to work of other contractors or Subcontractors. Such direction may include the following: the scale of the drawings, where the drawings are to be drafted, the number of prints or reproducibles, and the requirement of attendance at meetings. The determination as to who shall provide the composite drawings and the contents of the same shall rest exclusively with Construction Manager. Upon request by Construction Manager, Contractor shall sign and be bound by such composite drawings. Such signature shall indicate Contractor's acknowledgment that such drawing is acceptable as related to its Work covered or included in such drawing. If Contractor performs work in a manner which causes interference with the work of other contractors, or subcontractors, Contractor shall make the changes necessary to correct the condition as directed by Construction Manager.

## **ARTICLE 17 - PROTECTION OF RIGHTS, PERSONS AND PROPERTY**

### **17.1 Accident Prevention**

Contractor shall at all times take every precaution against injuries to persons or damage to property and for the safety of persons engaged in the performance of the Work.

### **17.2 Safety Programs**

Contractor shall be responsible for the initiation, maintenance and supervision of safety precautions and programs as prescribed by Construction Manager in connection with the Work.

### **17.3 Protection of Work and Property**

(a) Contractor shall at all times guard BPCA's property from injury or loss in connection with the Work. Contractor shall at all times guard and protect the Site, the Work and adjacent property. Contractor shall replace or make good any such loss or injury unless such loss or injury is caused directly by BPCA.

(b) Contractor shall have full responsibility to install, protect and maintain all Materials in proper condition and forthwith repair, replace and make good any damage thereto until Final Acceptance of the Work.

(c) No provision is included for stresses or loads imposed by construction operations. If Contractor desires to place such loads in excess of the design load (as shown on the Drawings or Specifications), Contractor shall submit to Engineer drawings and calculations prepared by, and bearing the seal of a professional engineer, showing the proposed method for supporting such loads, for Engineer's review and approval. No loading of any kind in excess of design loads shall be placed on any part of the Project prior to Engineer's approval of such submitted drawings and calculations. The costs of the Engineer's review shall be reimbursed to BPCA by Contractor.

(d) Contractor shall be responsible for all cutting, fitting or patching that may be required to complete the Work, to make its several parts fit together properly and to make the Work fit together properly with previous and surrounding work. The requirement to cut, fit or patch shall be determined by Construction Manager; provided, that structural elements of the Project shall not be cut, patched, or otherwise altered or repaired without prior authorization by BPCA. Authorization to proceed with remedial operation on any damaged or defective element or portion of the Project shall not constitute a limitation or a waiver of BPCA's, Construction Manager's or Engineer's right to require the removal and replacement of any Work which fails to fulfill the requirements of the Contract Documents.

### **17.4 Adjoining Property**

Contractor shall protect all adjoining property and shall repair or replace any

such property damaged or destroyed during the progress of the Work.

**17.5 Risks Assumed by Contractor**

(a) Contractor solely assumes the following risk whether such risk arises from acts or omissions (whether negligent or not and whether supervisory or otherwise) of BPCA, Construction Manager, of Engineer or Contractor, of any Subcontractor, of any Materialman, of third persons or from any other cause, including unforeseen obstacles and difficulties which may be encountered in the prosecution of the Work, whether such risk is within or beyond the control of Contractor and whether such risk involves any legal duty, primary or otherwise, imposed upon BPCA:

the risk of loss or damage, direct or indirect, of whatever nature, to the Work or to any Materials furnished, used, installed or received by BPCA, Contractor or any Subcontractor, Materialmen or workmen performing services or furnishing Materials for the Work, whether such Work or Materials are stored at the Site or at an offsite location in accordance with Section 5.4 hereof. Contractor shall bear such risk of loss or damage until Final Acceptance of the Work by BPCA or until completion or removal of such Materials from the Site and the vicinity thereof, whichever event occurs last. A portion of the risk of such loss or damage may be insured against under the terms of a "builder's risk" insurance policy maintained in the name of Contractor, among others, as described in Section 13.1(i). Notwithstanding the status of any actual or potential recovery or claim under the said "builder's risk" insurance policy, in the event of any loss or damage, Contractor immediately shall repair, replace or make good any such loss or damage.

(b) Contractor shall not, without obtaining express advance permission of BPCA, raise any defense involving in any way jurisdiction of any court in which BPCA brings an action arising under this Agreement, governmental nature of BPCA or the provisions of any statutes respecting suits against BPCA.

(c) Contractor's obligations under this Article 17 shall not be deemed waived, limited or discharged by the enumeration or procurement of any insurance for liability for damages.

(d) Neither Final Acceptance of the Work nor any payment made hereunder shall release Contractor from Contractor's obligations under this Article 17. The enumeration elsewhere in this Agreement of particular risks assumed by Contractor or of particular claims for which Contractor is responsible shall not be deemed to limit the effect of the provisions of this Article 17 or to imply that Contractor assumes or is responsible for only risks or claims of the type enumerated; and neither the enumeration in this Article nor the enumeration elsewhere in this Agreement of particular risks assumed by Contractor of particular claims for which Contractor is responsible shall be deemed to limit the risks which Contractor would assume or the claims for which Contractor would be responsible in the absence of such enumerations.

(e) The Contractor is advised that the Work under this Agreement may impose certain obligations and requirements mandated by the U.S. Department of Labor Occupational Safety and Health Administration regulations, Title 29 CFR Part 1926.62 Lead Exposure in Construction, relative to the potential exposure to lead by its employees. The Contractor assumes entire responsibility and liability for complying fully in all respects with these regulations.

(f) Contractor agrees that any unsatisfied claims of the BPCA arising from Contractor's obligations under this Article 17 or Article 13 (Insurance) may be offset or deducted by BPCA from any payments due to Contractor hereunder.

#### **ARTICLE 18 - USE PRIOR TO ACCEPTANCE BY BPCA**

(a) If before Final Acceptance of Work, BPCA desires to use the Site or any part thereof which is completed or partly completed, or to place or install therein or thereon equipment, BPCA shall have the right to do so, and Contractor shall in no way interfere with or object to such use by BPCA.

(b) Such use (1) shall not constitute acceptance of space, systems, Materials or elements of the Work, nor shall such use affect the start of any guaranty period and (2) shall not affect the obligations of Contractor for work which is not in accordance with the requirements of this Agreement or other obligations of Contractor under the Contract Documents.

(c) Contractor shall continue the performance of the Work in a manner which shall not unreasonably interfere with such use by BPCA.

#### **ARTICLE 19 - EXEMPTION FROM SALES AND COMPENSATING USE TAXES**

##### **19.1 BPCA Exempt**

BPCA is exempt from payment of sales and compensating use taxes of the State of New York and of cities and counties thereof on all Materials which will become an integral component of the completed Project pursuant to this Agreement.

##### **19.2 Certificates**

Contractor, Subcontractors and Materialmen shall obtain any and all necessary certificates or other documentation from the appropriate governmental agency or agencies, and use such certificates or other documentation as required by law, rule or regulations to obtain said tax exemption.

#### **ARTICLE 20 - WARRANTIES AND GUARANTIES**

## **20.1    In General**

(a) Contractor guarantees that all Work performed and all Materials furnished will conform to the Contract Documents as to kind, quality, functions, design and characteristics of material and workmanship. Contractor shall remove, replace and repair, at its sole cost and expense, all defects in workmanship, Materials, ratings, capacities, or design characteristics occurring in or to the Work including, without limitation, any portion of the Work furnished or performed by any Subcontractor or Materialman, within one year from the date of Final Acceptance. Contractor guarantees that all Work performed and all Materials furnished will conform to the Contract Documents as to kind, quality, functions, design and characteristics of material and workmanship. Contractor hereby acknowledges that BPCA may be required to incur substantial expense if correction of the Work is required particularly if such correction involves the uncovering, removal or replacement of concrete, wiring and piping installed at the Site. If Contractor shall fail to reimburse BPCA for any such expense which may become payable as provided in this paragraph, BPCA shall be entitled to deduct such expense from any payments required to be made by BPCA to Contractor pursuant to this Agreement. Contractor, upon demand, shall pay for all damage to all other work resulting from such defects and all expenses necessary to remove, replace and repair such other work which may be damaged in removing, replacing or repairing such defects.

(b) The benefits of this Article 20 shall inure to the benefit of BPCA and its respective successors and assigns. In addition, any bond or guaranty which may be required of Contractor or any Subcontractor or Materialman under the Contract Documents shall inure to the benefit of BPCA and its respective successors and assigns.

(c) The rights and remedies afforded BPCA under this Section are in addition to and not in lieu of and do not in any way affect, change, alter, modify, vary or prejudice any right, remedy or recourse which BPCA may have under other provisions of this Agreement or pursuant to Law.

## **20.2    Additional Guaranties**

In addition to the general guaranty set forth in Section 20.1, any other guaranties set forth in the Contract Documents shall be applicable.

## **20.3    Repair by Another**

If BPCA has requested Contractor to correct any Work and Contractor shall not have completed any correction of the Work as shall be required pursuant to this Article 20 within ten (10) working days after receipt of written notice from BPCA specifying the defect or damage required to be removed, replaced or repaired, or if such defect or damage is of such a nature that it cannot be completely removed, repaired and replaced within such ten (10) day period and Contractor shall not have diligently commenced removing, repairing and replacing such defect and damage within such ten (10) day period or shall not thereafter with reasonable diligence and in good faith proceed to do such work, BPCA may employ such other person, firm or corporation as it may choose, to perform such removal, replacement and repair, and

Contractor shall, upon demand, pay to BPCA all amounts which BPCA expends for such removal, replacement and repair.

## **ARTICLE 21 - INDEMNITY**

### **21.1    Delay or Failure**

Contractor and its sureties shall be responsible for and pay to BPCA, all loss, damage and additional cost incurred by reasons or on account of (i) the unexcused delays of Contractor (determined as set forth in Section 3.1 hereof) or (ii) Contractor's failure to fully and completely carry out the terms of this Agreement.

### **21.2    Inventions**

In addition to the indemnity set forth in Section 17.5(a), Contractor shall indemnify and hold BPCA harmless from all claims, demands or liabilities of any kind or nature, including costs and expenses, for or on account of any patented or unpatented plan, design, invention, article, arrangement, appliance, Material, or preparation, manufactured, used or followed in the performance of or incident to the Work hereunder, and shall defend any and all actions arising out of the same. In the event of any injunction or legal action by reason thereof, which shall operate to stop or retard the Work, BPCA shall have the right to substitute such other articles of like kind as will enable it to complete the Project, and all costs and expenses occasioned thereby shall be borne by Contractor.

### **21.3    Liability**

Contractor shall hold BPCA, the Conservancy, the State of New York, Construction Manager and Engineer and their servants, agents and employees harmless from and shall indemnify them against any and all liability, loss, cost, damage or expense, including attorneys' fees, by reason of claims of its employees or employees of its Subcontractors or Materialmen for injuries or death or by reason of claims of any other person or persons, including BPCA, the Conservancy, the State of New York, Construction Manager, and Engineer and their servants, agents or employees, for injuries to person or property or for death occasioned in whole or in part by any act or omission of Contractor, its Subcontractors and Materialmen and their servants, agents and employees whether or not it is contended that BPCA contributed thereto or was responsible therefor by reason of nondelegable duty. If, however, this indemnification is limited by applicable law, then the said indemnification hereby shall be similarly limited to conform with such law, it being the intention that this indemnification shall be as permitted by applicable law. BPCA may retain any monies due or to become due hereunder sufficient to indemnify BPCA, the Conservancy, the State of New York, Construction Manager, and Engineer and their servants, agents and employees against such injuries, claims, suits, actions, costs or damages should any such claim arise. Contractor shall, at the sole option of BPCA and upon written demand of BPCA, assume the defense in behalf of BPCA, the Conservancy, the State of New York, Construction Manager, and Engineer or their servants, agents or employees of any action or proceeding commenced against them whether or not Contractor is named as a party therein as part of Contractor's aforementioned obligation to

indemnify and hold them harmless.

## **ARTICLE 22 - PATENTS AND ROYALTIES**

(a) In the prosecution of the Work, Contractor will not use or furnish any patented appliance, article, device or method of construction unless it has authorization for such use. Contractor shall pay all royalty and license fees.

(b) Any approval of Materials by Engineer shall be construed merely as an approval of their adequacy for the Work.

(c) Contractor will be responsible for all claims against BPCA for the infringement of any patents. Contractor shall defend all suits and claims for infringement of any patent rights and shall indemnify and hold BPCA harmless from loss on account thereof. Any expenses incurred by Contractor in connection with suits and claims will not offset the Contract Price.

(d) Contractor hereby and presently grants to BPCA an irrevocable and non-exclusive license to utilize all of the Contractor's rights in and to:

- (1) all United States patents and patents registered in any other foreign country;
- (2) all proprietary knowledge, data and trade secrets; and
- (3) all Engineering data and information necessary in connection with and solely in connection with, all work performed by BPCA or other contractors hired by BPCA to complete the work after termination of this Agreement pursuant to Section 15.1.

Each Purchase Order and Subcontract shall contain a similar clause with respect to the rights of Subcontractor and Materialman in and to the foregoing, in form and substance acceptable to BPCA, granting BPCA the aforesaid license. BPCA shall not be obligated to pay any royalties, license fees or any other consideration to Contractor or any Subcontractor or Materialman for this license. Contractor and each Subcontractor and Materialman shall execute a separate license agreement, in form and substance satisfactory to BPCA, concurrently with the execution of this Agreement, or any Subcontract or Purchase Order, or within ten (10) days thereafter, embodying the terms of this Section. On request, Contractor and each Subcontractor and Materialman shall furnish BPCA with copies of all related Engineering and technical data required to complete the work.

## **ARTICLE 23 - AS-BUILT DRAWINGS**

(a) Contractor shall be furnished by BPCA, at BPCA's expense, with one physical

set and two electronic copies (on disk) of 48" x 36" Drawings, on which Contractor, where applicable, shall record the installation of underground utilities, concealed piping, concealed valves and control equipment and record changes in the Work. Such recording shall be kept current and include final and actual sizes as well as the location and elevation of the above figures and offset distances in feet and inches to permanent surface improvements such as buildings, retaining walls or curbs. During the progress of the Work, at the request of Construction Manager and prior to the approval of any Requisition of Contractor, Contractor shall provide a 48" x 36" PDF to BPCA of the up to-date Drawings showing the Work as installed. At completion of the Work, Contractor shall complete, sign and date the 48" x 36" physical set of Drawings and deliver it to Engineer.

(b) After review by Engineer and return to Contractor for any required changes, Contractor shall furnish to BPCA, at Contractor's expense, at least one physical set and two electronic copies (on disk) of 48" x 36" final Drawings.

## **ARTICLE 24 - SHOP DRAWINGS AND SAMPLES**

### **24.1 Contractor Submittal**

Contractor shall submit to Construction Manager the shop drawings, Product Data and Samples required by the Contract Documents and shall adhere to all submittal and scheduling requirements with respect thereto. After review of such shop drawings, Product Data and Samples by Construction Manager and their approval by Engineer, each of such items shall be returned in accordance with the procedures established therefor.

### **24.2 Contractor's Responsibility**

Engineer's approval of shop drawings, Product Data and Samples shall not relieve Contractor of responsibility for and deviation from the requirements of the Contract Documents. Contractor shall be responsible for the accuracy of the shop drawings, Product Data and Samples and for the conformity of Documents unless Contractor has notified Engineer of the deviation in writing at the time of submission and has received from Engineer written approval by separate letter of the specified deviations. Engineer's approval shall not relieve Contractor of responsibility for errors or omissions in the shop drawings, Product Data or Samples.

## **ARTICLE 25 – NOTICES**

Whenever it is provided herein that notice, demand, request, consent, approval or other communication shall or may be given to, or served upon, either of the parties by the other, or whenever either of the parties desires to give or serve upon the other any notice, demand, request, consent, approval or other communication with respect hereto, each such notice, demand, request, consent, approval or other communication shall be in writing and shall be effective for any purpose only if given or served by hand with proof of delivery, by delivery



by an overnight courier service which obtains receipts, or by mailing the same by express or certified mail, postage prepaid, return receipt requested, addressed to:

(a) If to BPCA:

Name & Title of BPCA Person, Battery Park City Authority, One World Financial Center, 24th floor, New York, NY 10281

with a copy to: General Counsel, at the same address

or to such other address as BPCA may from time to time designate in the manner set forth above.

(b) If to Contractor:

Name, address & Company

or to such other addresses as Contractor may from time to time designate in the manner set forth above.

(c) if to Construction Manager

Name, Company and Address (if there is a CM).

or to such other addresses as the Construction Manager may from time to time designate in the manner set forth above.

(d) if to Engineer/Architect/etc.

Name, Company, Address.

or to such other addresses as Engineer may from time to time designate in the manner set forth above.

(e) Every notice, demand, request, consent, approval or other communication hereunder shall be deemed to have been given or served (i) in the case of express or certified mail, on the date the receipt is dated by the Post Office or express mail carrier, as the case may be, and (ii) in the case of notice by hand or by overnight courier service, upon delivery, as evidenced by a signed receipt.

## **ARTICLE 26 - EMPLOYMENT AND DIVERSITY**

### **26.1 Definitions**

The following terms shall have the meanings set forth below for the purposes of this Article 26:

(a) “Certified Business.” A business verified as a minority or women-owned business enterprise by the Division or such other New York State agency authorized to make such certification.

(b) “Diversity Program.” The program by which Owner shall monitor Contractor’s compliance with the requirements set forth in (i) the MBE/WBE Required Participation Plan and (ii) the Utilization Plan.

(c) “Division.” The Division of Minority and Women’s Business Development of the New York State Department of Economic Development.

(d) “Director.” The Director or the Executive Director of the Division.

(e) “Directory.” The directory of certified businesses prepared by the Director for use by Owner and contractor in complying with the provisions of the Executive Law of the State of New York, Article 15-A.

(f) “MBE/WBE Required Participation Plan.” The plan previously submitted by a Consultant to Owner listing the certified MBEs and/or WBEs which the Contractor intends to use in the performance of this agreement in order to ensure that MBEs and WBEs are awarded a fair share of the total dollar value that is to be paid for the Work.

(g) “Minority” or “Minority Group Member.” A United States citizen or permanent resident alien who is and can demonstrate membership in one of the following groups:

(1) Black persons having origins in any of the Black African racial groups;

(2) Hispanic persons of Mexican, Puerto Rican, Dominican, Cuban, Central or South American descent of either Indian or Hispanic origin, regardless of race;

(3) Native American or Alaskan native persons having origins in any of the original peoples of North America; or

(4) Asian and Pacific Islander persons having origins in any of the Far East countries, South East Asia, the Indian subcontinent or the Pacific Islands.

(h) “Minority-owned Business Enterprise” (“MBE”). A business enterprise, including a sole proprietorship, partnership or corporation that is:

- (1) at least 51 percent owned by one or more Minority Group Members;
- (2) an enterprise in which such Minority ownership is real, substantial and continuing;
- (3) an enterprise in which such Minority ownership has and exercises the authority to control and operate, independently, the day-to-day business decisions of the enterprise; and
- (4) an enterprise authorized to do business in the State of New of New York and is independently owned and operated.

(i) “Subcontract.” An agreement providing for a total expenditure in excess of \$25,000 for the construction, demolition, replacement, major repair, renovation, planning or design of real property and improvements thereon between a contractor or consultant and any individual or business enterprise, including a sole proprietorship, partnership, corporation, or not-for-profit corporation, in which a portion of a contractor’s obligation is undertaken or assumed, but shall not include any construction, demolition, replacement, major repair, renovation, planning or design or real property or improvements thereon for the beneficial use of the contractor.

(j) “Utilization Plan.” A plan previously submitted by Contractor to Owner which sets forth the proposed percentages of employees who are either Minority Group Members or women and who will be used by Contractor to perform the Work.

(k) “Women-owned Business Enterprise” (“WBE”). A business enterprise, including a sole proprietorship, partnership or corporation that is:

- (1) at least 51 percent owned by one or more United States citizens or permanent resident aliens who are women;
- (2) an enterprise in which the ownership interest of such women is real, substantial and continuing;
- (3) an enterprise in which such women ownership has and exercises the authority to control and operate, independently, the day-to-day business decisions of the enterprise; and
- (4) an enterprise authorized to do business in the State of New York and which is independently owned and operated.

## **26.2 Equal Employment Opportunities for Minority Group Members and Women**

(a) During the performance of the Work, Contractor agrees as follows:

- (1) Contractor shall not discriminate against any employee or applicant for

employment because of race, creed, color, national origin, sex, age, disability or marital status; shall undertake or continue existing programs to ensure that Minority Group Members and women are afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status; and shall make and document its good faith effort to achieve prompt and full utilization of Minority Group Members and women at all levels and in all segments of its work force where deficiencies exist.

- (2) At the request of Owner, Contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, labor union, or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of Contractor's obligations herein.
- (3) Contractor shall state in all solicitations or advertisements for employees that in the performance of the Work, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.
- (4) Contractor and any Subcontractor shall be required to submit compliance reports in accordance with this Section 26 relating to their operations and the implementation of the Diversity Program in effect as of the date of execution of this Agreement.
- (5) Contractor shall submit an EEO policy statement to Owner within seventy-two hours of notice from Owner of the awarding of this contract to Contractor. If Contractor does not have an existing EEO policy statement, Owner may provide to Contractor a model statement.

(b) Contractor shall include the provisions of Section 26.2(a) in every Subcontract in such a manner that the provisions will be binding upon each Subcontractor as to the Work in connection with this contract's execution.

(c) Contractor shall comply with the provisions of the Human Rights Law, all other State and Federal statutory and constitutional non-discrimination provisions. Contractor and subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest

(d) Miscellaneous

- (1) The provisions of this Section shall not be binding upon Contractor or its Subcontractors in the performance of Work or the providing of services, or any other activities that are unrelated, separate or distinct from this Agreement as expressed by its terms.
- (2) The requirements of this Section shall not apply to any employment outside New York State, or application for employment outside such state, or solicitations, or advertisements therefore, or any existing programs of diversity regarding employment outside New York State and the effect of contract provisions required by this section shall be so limited.

(e) Enforcement

The parties agree to be bound by provisions of Article 15-A of the Executive Law of the State of New York and by the regulations adopted thereunder.

**26.3** Workforce Participation

(a) Contractor is required to make and document good faith efforts to achieve the participation of \_\_\_\_\_ or n/a % Minority Group Members and \_\_\_\_\_ or n/a % women in the workforce for each trade or services utilized by Contractor in the Work as set forth in the Utilization Plan.

(b) To ensure compliance with this Section, Contractor shall submit a staffing plan to document the composition of the proposed workforce to be utilized in the performance of this contract by the specified categories listed, including ethnic background, gender, and Federal occupational categories. Contractors shall complete the Staffing plan form and submit it as part of their bid or proposal or within a reasonable time, but no later than the time of award of the contract.

(c) The participation for Minority Group Members and women employees must be substantially uniform throughout the work.

(d) Contractor shall not participate in the transfer of Minority Group Member employees or women employees from employer to employer or from project to project for the sole purpose of satisfying the participation goals above set forth.

(e) In achieving such participation, Contractor is required to make good faith efforts to find and employ qualified Minority Group Members and women supervisory personnel and journeymen.

(f) Contractor shall meet with Owner, and such other persons as Owner may invite, on a periodic basis as required by Owner to discuss issues relating to Minority Group Members

and women workforce participation. At such meetings, Contractor shall report on the names of its Subcontractors then engaged in construction on the project to which the Work relates or which within 60 days are scheduled to be engaged in construction of such project, on the nature of the work and anticipated construction schedule of Contractor and Subcontractors, on the anticipated hiring needs of Contractors and Subcontractors, on the names of the responsible foremen directly employed by Contractor, and such information requested by Owner that will then promote the employment of Minority Group Members and women. Contractor shall use its best efforts to obtain the above information and shall, upon Owner's request, cause its Subcontractors to attend said meetings and provide the above information.

(g) Compliance reports with respect to the Utilization Plan ("Utilization Compliance Reports") which shall be submitted to Owner's Diversity officer on a monthly basis and shall be in accordance with the following:

- (1) Owner may require that Contractor submit Utilization Compliance Reports for the duration of this contract to Owner regarding Contractor's operation and implementation of the Utilization Plan portion of the Diversity Program in effect as of the date of execution of this Agreement.
- (2) The Utilization Compliance Reports shall include information on any Subcontractor involved in the performance of the contract with regard to the Subcontractor's compliance with the Diversity Program.
- (3) The Utilization Compliance Reports shall include, but are not limited to the following:
  - (i) a breakdown of the Subcontractors by ethnic background, gender or such other categories as may be required by Owner;
  - (ii) the actions the Contractor and Subcontractors have taken to meet the components of the Diversity Program;
  - (iii) how Contractor and Subcontractors intend to utilize participation of Minority Group Members and women in their workforce in connection with the performance of the Work and timetables therefor during the remainder of their performance of the Work.

(h) Any failure by Consultant to submit a required Utilization Compliance Report, including information on any of its Subcontractor's compliance, may be deemed a breach of contract with respect to this agreement.

(i) Contractor shall include the provisions in Section 26.3 in every Subcontract, and such provisions shall be binding upon each Subcontractor.

**26.4 Minority Business Enterprise (MBE) Participation and Women's Business Enterprise Participation**

(a) Contractor shall make good faith efforts to attain the participation of \_\_\_\_\_ % MBE and \_\_\_\_\_ % WBE in the total dollar value of the Work.

(b) The total dollar value of the Work for purposes of determining compliance with the MBE/WBE Required Participation Plan shall be calculated as follows:

- (1) if an MBE and WBE is not the Contractor -- the dollar value of the Work subcontracted to MBEs and WBEs; provided, however, that where materials are purchased from an MBE and WBE which acts merely as a conduit for goods manufactured or produced by a non-MBE and non-WBE, only that portion of the price paid for such materials which will accrue as profit to the MBE or WBE and/or the Fee received by the MBE and WBE shall be included;
- (2) if Contractor is a joint venture including one or more MBEs and WBEs as joint venturers -- the Fee multiplied by the percentage of the joint venture's profits (or losses) which are to accrue to the MBE and WBE joint venturer(s) under the joint venture agreement; and
- (3) if an MBE and WBE is Contractor or where Contractor is a joint venture consisting entirely of MBEs and WBEs -- the Fee.

(c) Compliance reports with respect to the MBE/WBE Required Participation Plan ("MBE/WBE Compliance Reports") shall be required as follows:

- (1) MBE/WBE Compliance Reports shall be submitted to Owner on a monthly basis and shall include information with respect to:
  - (i) dividing the Work to be subcontracted into smaller portions, where economically and technically feasible;
  - (ii) actively and affirmatively making a good faith effort to solicit bids for subcontracts from qualified MBEs and WBEs identified in the directory of certified businesses available at the office of the Owner's Diversity Officer, including the circulation of solicitations to Minority contractor associations. Contractor shall maintain records detailing the efforts made to provide for meaningful MBE and WBE participation in the Work, including the names and addresses of all MBEs and WBEs contacted and, if any such MBE or WBE is not selected as a joint venture or subcontractor, the reasons for such decision;
  - (iii) making plans and specifications for prospective work

available to MBEs and WBEs in sufficient time for review;

(iv) utilizing the services and cooperating with those organizations providing technical assistance to Owner in connection with the participation of MBEs and WBEs in the project to which the Work relates;

(v) encouraging the formation of joint ventures, partnerships or other similar arrangements among subcontractors where appropriate;

(vi) ensuring that provision is made to provide progress payments to MBEs and WBEs on a timely basis; and

(vii) not requiring bonds from and/or providing bonds and insurance for MBEs and WBEs where appropriate, and/or assisting in obtaining bonds and insurance for MBEs and WBEs where feasible.

(2) MBE/WBE Compliance Reports which shall be submitted to the Diversity Department on a monthly basis.

(3) MBE/WBE Compliance Reports shall also include, but not be limited to, the following information:

(i) the name, address and telephone number of each certified MBE and WBE which Contractor is using or intends to use to comply with the MBE/WBE Required Participation Plan.

(ii) a brief description of the contract scope of work to be performed for the Contractor by each certified MBE and WBE and the scheduled dates for performance;

(iii) a statement of whether the Contractor has a written agreement with each certified MBE and WBE which Contractor is using or intends to use, and if requested, copies of such agreements;

(iv) the actual total cost of the contract scope of work to be performed by each certified MBE and WBE for this Agreement; and

(v) The actual amounts of any payments made by Contractor to each certified MBE and WBE as of the date the MBE/WBE Compliance Report was submitted.

(d) Contractor shall provide Owner with Monthly M/WBE and Workforce Utilization Reports, by the last calendar day of each month, **in the form of “Exhibit ????”** hereto. Failure to provide such reports shall be an event of default of contractor’s obligations pursuant to Article 15.1 (a) (1) hereof. **(IF NO GOALS, JUST WRITE, “M/WBE and**



## **Workforce Utilization Reports – n/a”).**

(e) Contractor shall provide proof of payment to all subcontractors and materialmen in the form of a waiver of lien or cancelled check, with each request for payment. Failure to provide such proof of payment shall be an event of default of contractor’s obligations pursuant to Article 15.1 (a) (1) hereof. **(IF NO GOALS, JUST WRITE, “Contractor Proof of Payment – n/a”).**

### **26.5 Failure to Comply**

(a) In accordance with 5 NYCRR §142.13, Contractor acknowledges that if it is found to have willfully and intentionally failed to comply with the M/WBE participation goals set forth herein or any other requirements set forth in this Article 26, such finding constitutes a breach of contract and Owner may withhold payment from the Contractor as liquidated damages.

(b) Such liquidated damages shall be calculated based on the actual cost incurred by Owner related to Owner’s expenses for personnel, supplies and overhead related to establishing, monitoring, and reviewing certified M/WBE programmatic goals and Diversity and Equal Opportunity compliance.

## **ARTICLE 27 - STANDARD PROVISIONS**

### **27.1 Provision Required by Law Deemed Inserted**

Each and every provision of law and governmental regulation required by law to be inserted in the Contract Documents shall be deemed to be inserted therein and this Agreement shall read and shall be enforced as though so included therein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, this Agreement shall be deemed to be amended to make such insertion or correction. If this Agreement contains any unlawful provision, the same shall be deemed of no effect and shall, upon the application of either party, be deemed stricken from this Agreement without affecting the binding force of the remainder.

### **27.2 Compliance with Laws, Rules and Regulations**

Contractor and each Subcontractor and Materialman shall comply fully with all applicable laws, rules and regulations pertaining to the Project or the Work.

### **27.3 Applicable Law, Forum and Jurisdiction**

This Agreement shall be governed by the laws of the State of New York. All actions or proceedings relating, directly or indirectly, to this Agreement shall be litigated only in courts located within the County of New York. Contractor, any guarantor of the performance of its obligations hereunder (including sureties for Payment and Performance Bonds)

("Guarantor") and their successors and assigns hereby subject themselves to the jurisdiction of any state or federal court located within such county, waive the personal service of any process upon them in any action or proceeding therein and consent that such process be served by certified or registered mail, return receipt requested, directed to the Contractor and any successor at Contractor's address hereinabove set forth, to Guarantor and any successor at the address set forth in the instrument of guaranty and to any assignee at the address set forth in the instrument of assignment. Such service shall be deemed made as of the date of the return receipt.

#### **27.4 No Third Party Rights**

Nothing in this Agreement shall create or shall give to third parties any claim or right of action against BPCA, Construction Manager, or Engineer beyond such as may legally exist irrespective of this Agreement.

#### **27.5 Exculpation; Limitation of Liability**

In no event shall any claim be asserted under this Agreement by Contractor or any Subcontractor or Materialman against any member, officer, employee, lessee, consultant or agent of BPCA, Construction Manager, or Engineer. By execution of this Agreement, Contractor agrees to look solely to BPCA with respect to any claim which may arise. It is hereby understood by and between the parties hereto that BPCA shall only be liable to the extent of monies available to BPCA.

#### **27.6 Protection of Lives and Health**

(a) Contractor's, Subcontractor's and Materialman's attention is specifically called to the rules and regulations, codes and bulletins of the New York State Department of Labor. Attention is also directed to the standards imposed under the Federal Occupational Safety and Health Act of 1970, as amended.

(b) Contractor shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment on work under this Agreement, and shall immediately notify BPCA in writing of any injury which results in hospitalization or death.

(c) Contractor alone shall be responsible for the safety, efficiency and adequacy of contractor's work, plant, appliances and methods, and for any damage which may result from the failure, or the improper construction, maintenance, or operation of such work, plant, appliances and methods.

#### **27.7 Waiver of Immunity Clause**

Contractor hereby agrees to the provisions of Section 2875 of the Public Authorities Law of the State of New York which require that upon the refusal of a person, when called before a grand jury, head of a State department, temporary State commission, or other

State agency, the Organized Crime Task Force in the State Department of Law, head of a department or other City agency, which is empowered to compel the attendance of witnesses and examine them under oath, to testify in an investigation concerning any transaction or contract had with the State, any political subdivision thereof, or with any public department, agency or official of the State, a public authority or with any public department, agency or official of the State or of any political subdivision thereof or of a public authority, to sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant questions concerning such transaction or contract:

(a) such person, and any firm, partnership or corporation of which such person is a member, partner, director or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contracts with any public authority or official thereof, for goods, work or services, for a period of five (5) years after such refusal; and

(b) any and all contracts made with any public authority or official thereof, by such person, and by any firm, partnership or corporation of which such person is a member, partner, director or officer may be canceled or terminated by the public authority without incurring any penalty or damages on account of such cancellation or termination, but any monies owing by the public authority for goods delivered or work done prior to the cancellation or termination shall be paid.

#### **27.8 Prohibited Interests**

No official of BPCA who is authorized in such capacity and on behalf of BPCA to negotiate, make, accept, or approve, or take part in negotiating, making, accepting, or approving any Architectural, Engineering, inspection, Purchase Order or any Subcontract in connection with the work, shall become directly or indirectly interested personally in the Agreement. Contractor is advised that no official or employee of BPCA is permitted to indirectly solicit, accept, or receive gifts whether in the form of money, service, loan, travel, entertainment, hospitality, thing or promise, or in any other form. No officer, employee, architect, attorney, engineer, inspector or consultant of or for BPCA who is authorized in such capacity and on behalf of BPCA to exercise any legislative, executive, supervisory or other similar functions in connection with the Work, shall become directly or indirectly interested personally in the Agreement, any Purchase Order, Subcontract, insurance contract, or any other contract pertaining to the Work.

#### **27.9 Labor Provisions**

(a) It is hereby agreed that all applicable provision of the Labor Law of the State of New York shall be carried out in the performance of the Work.

(b) Contractor specifically agrees, as required by Labor Law, Sections 220 and 220-d as amended, that:

- (1) no laborer, workman or mechanic, in the employ of Contractor, Subcontractor, Materialman or other person doing or contracting to do the whole or any part of the Work contemplated by the Contract

Documents shall be permitted or required to work more than eight (8) hours in any one calendar day or more than five (5) days in any one week, except in the emergencies set forth in the Labor Law.

- (2) the wages paid for a legal day's work shall be not less than the prevailing rate of wages as defined by law;
- (3) the minimum hourly rate of wage to be paid shall be not less than that stated in the Contract Documents and as shall be designated by the Industrial Commissioner of the State of New York; and
- (4) Contractor shall post at appropriate conspicuous points at the Site, a schedule showing all determined minimum wage rates for the various classes of laborers and mechanics to be engaged in the Work and all deductions, if any, required by law to be made from unpaid wages actually earned by the laborers and mechanics so engaged.

(c) The minimum wage rates, if any, herein specified for apprentices shall apply only to persons working with the tools of the trade which such persons are learning under the direct supervision of journeymen mechanics. Except as otherwise required by law, the number of apprentices in each trade or occupation employed by Contractor or any Subcontractor or Materialman shall not exceed the number permitted by the applicable standards of the New York State Department of Labor, or, in the absence of such standards, the number permitted under the usual practice prevailing between the unions and the employers' association of the respective trades or occupations.

(d) All employees of Contractor and each Subcontractor and Materialman shall be paid in accordance with the provisions of the Labor Law.

(e) Contractor agrees that, in case of underpayment of wages to any worker engaged in the Work by Contractor or any Subcontractor or Materialman, BPCA shall withhold from Contractor out of payments due an amount sufficient to pay such worker the difference between the wages actually paid such worker for the total number of hours worked, and that BPCA may disburse such amount so withheld by BPCA for and on account of Contractor to the employee to whom such amount is due. Contractor further agrees that the amount to be withheld pursuant to this paragraph may be in addition to the percentages to be retained by BPCA pursuant to other provisions of the Contract Documents.

(f) The Labor Law provides that this Agreement may be terminated for cause and no sum paid for any Work done thereunder upon a second conviction for willfully paying less than:

- (1) the stipulated wage scale as set forth in Labor Law, Section 220, subdivision 3, as amended, or
- (2) less than the stipulated minimum hourly wage scale as specified in Labor

Law, Section 220-d, as amended.

(g) Contractor specifically agrees, as required by the Labor Law, Section 220-e, as amended, that:

- (1) in the hiring of employees for the performance of Work under this Agreement or any Subcontract or Purchase Order hereunder, or for the manufacture, sale or distribution of Materials, equipment or supplies hereunder, but limited to operations performed within the territorial limits of the State of New York, no Contractor, Subcontractor, Materialman or any person acting on behalf of such Contractor or Subcontractor, or Materialman, shall by reason of race, creed, color, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates;
- (2) no Contractor, Subcontractor, Materialman, or any person on behalf of such Contractor, Subcontractor or Materialman shall, in any manner, discriminate against or intimidate any employee hired for the performance of work under this Agreement on account of race, creed, color, sex or national origin;
- (3) there may be deducted from the amount payable to Contractor, by BPCA under this Agreement, a penalty of \$50.00 for each person for each calendar day during which such person was discriminated against or intimidated in violation of the terms of this Agreement; and
- (4) this Agreement may be canceled or terminated for cause by BPCA and all monies due or to become due hereunder may be forfeited for a second or any subsequent violation of the terms or conditions of this Section of this Agreement.

(h) Where applicable, Contractor agrees to settle labor disputes in accordance with the provisions of The New York Plan For The Settlement of Jurisdictional Disputes Between The Building And Construction Trades Council Of Greater New York And The Building Trades Employers' Association Of The City of New York.

#### **27.10 Disputes Resolution Procedure**

(a) The provisions of this Article shall constitute Contractor's sole means for challenging any determination, order or other action of BPCA or otherwise asserting against BPCA any claim of whatever nature arising under, or in any way relating to, this Agreement (any such challenge or assertion by Contractor being herein referred to as a "Dispute(s)"). Exhaustion of these dispute resolution procedures, including the judicial review set forth below, shall be the parties' sole remedy in connection with any Dispute.

(b) The parties to this Agreement hereby authorize and agree to the resolution of all Disputes arising out of, under or in connection with, this Agreement in accordance with the following and pursuant to the procedures set forth in paragraph (c) of this Section 27.10. With respect to any Dispute which relates in whole or primary part to technical issue(s) under this Agreement including, without limitation, determinations as to the acceptability or fitness of any Work, the meaning or interpretation of the Contract Documents, the question of whether any Work falls within the scope of the Specifications set forth in the Contract Documents, the acceptability of any proposed substitutions, modifications or other submission under this Agreement, the disapproval of proposed Subcontractors or Materialmen (to the extent such disapproval is related to technical issues), the extension of time to the extent related to a technical matter, the question of whether substantial completion or final completion has been achieved, the parties hereby authorize the General Counsel of BPCA, or his/her designee, (hereinafter referred to as the "Arbiter"), acting personally, to render a final and binding decision.

(c) All Disputes shall be initiated through a written submission by either party (such submission to be hereinafter referred to as the "Dispute Notice") to the Arbiter within ten (10) days of the determination which is the subject of the Dispute. Within ten (10) days after the submission of such Dispute Notice, the party initiating the Dispute shall provide the Arbiter with all evidence and other pertinent information in support of the party's position and/or claim. Within thirty (30) days from the date of the Dispute Notice, the party against whom the Dispute Notice was filed shall submit any and all materials which it deems pertinent to the Arbiter. Upon submission of a Dispute Notice to the Arbiter, the Arbiter shall render its decision in writing and deliver a copy of same to the parties within a reasonable time not to exceed sixty (60) days after the receipt of all materials. In rendering such decision, the Arbiter may seek such technical or other expertise as it shall deem necessary or appropriate (notifying both parties to the Dispute when he/she so seeks such other information or expertise) and seek any such additional oral and/or written argument or materials from either or both parties to the Dispute as he/she deems fit. The Arbiter shall have the discretion to extend the time for submittals required hereunder. The Arbiter's ability to render and the effect of a decision hereunder shall not be impaired or waived by any negotiations or settlement offers in connection with the matter presented, whether or not the Arbiter participated therein, or by any prior decision of others, or by any termination or cancellation of this Agreement. The decision of the Arbiter shall be final and binding on both parties to this Agreement.

(d) It is expressly understood and agreed that the pendency of a Dispute hereunder shall at no time and in no respect constitute a basis for any modification, limitation or suspension of Contractor's obligation to fully perform in accordance with this Agreement and that Contractor shall remain fully obligated to perform the Work notwithstanding the existence of any such Dispute.

#### **27.11 Additional Provisions Relating to the Prosecution of Claims for Money Damages**

(a) Except as otherwise provided in this Agreement, if Contractor claims or intends to claim compensation for any damage or loss sustained by reason of any act, neglect, fault or

default of BPCA, Contractor shall furnish a written notice to the Arbiter setting forth the nature of the claim and the extent of the damage sustained within seven (7) days of the occurrence of such loss or damages. This written notice shall constitute Contractor's submission to the Arbiter for the purposes of requesting the Arbiter's determination in accordance with Section 27.10 above. Any such claim shall state as fully as then possible all information relating thereto and shall be supported by any then available documentation, including daily records showing all costs incurred. Such information shall be supplemented with any and all further information, including information relating to the quantum of losses or damages sustained, as soon as practicable after it becomes or reasonably should become known to the Contractor.

(b) Any claim for compensation or monetary damages, the successful prosecution of which necessarily depends upon a technical determination favorable to Contractor, may not proceed unless and until Contractor first obtains such a favorable determination with respect to the technical issue and must be made within five (5) business days of such determination; moreover, Contractor must submit to the Arbiter any documentation or proof in support of the monetary claim within fifteen (15) days of such determination in order to proceed with such a claim.

(c) Compliance with the provisions hereof shall constitute a condition to the Contractor's submission of a Dispute pursuant to Section 27.10 with respect to any claim for compensation and the Contractor shall be deemed to have waived any claim not submitted in accordance herewith.

(d) Any final determination of the Arbiter with respect to a Dispute initiated pursuant to this Article 27 shall be subject to review solely in the form of a challenge following the decision by the Arbiter in a Court of competent jurisdiction of the State of New York, County of New York, under Article 78 of the New York Civil Practice Law and Rules or a United States Court located in New York City under the procedures and laws applicable in that court, it being understood the review of such Court shall be limited to the question of whether or not the Arbiter's determination is arbitrary, capricious or lacks a rational basis. No evidence or information shall be introduced or relied upon in such proceeding which has not been duly presented to the Arbiter in accordance with this Article 27.

#### **27.12 Limitation on Actions**

(a) Subject to the provisions of Section 27.11, no action or proceeding shall lie or shall be maintained by Contractor against BPCA, Construction Manager, or Engineer unless (i) such action or proceeding shall be commenced within six (6) months of the date of the issuance of the Certificate of Substantial Completion to Contractor; or (ii) in the case of an action or proceeding for moneys due pursuant to Section 5.7 hereof, or arising exclusively from or pertaining exclusively to work performed after the date of issuance of the Certificate of Substantial Completion, unless such action or proceeding is commenced no later than six (6) months after the issuance of the certificate of final completion to Contractor; or (iii) if this Agreement is terminated by BPCA prior to the issuance of the Certificate of Substantial Completion, unless such action or proceeding is commenced within six (6) months after the date of such termination.

(b) Nothing in this Section 27.12 shall be construed to modify or lengthen a shorter limitations period provided by applicable law.

(c) No action or proceeding shall be commenced by Contractor against BPCA, Construction Manager, or Engineer except in the Supreme Court of the State of New York, County of New York.

(d) Nothing in this Section 27.12 shall be construed to suggest that Contractor, under any circumstances, may bring an action or proceeding against Construction Manager, or Engineer.

#### **27.13 Waiver of Remedies**

Contractor acknowledges that it can be compensated adequately by money damages for any breach of this Agreement which may be committed by BPCA, Construction Manager, or Engineer. Contractor agrees that no default, act or omission of BPCA, Construction Manager, or Engineer shall constitute a material breach of contract entitling Contractor to cancel or rescind this Agreement or to suspend or abandon performance thereof, other than the failure of BPCA to make a payment of the Contract Price in accordance with the terms hereof solely because sufficient funds to pay the Contract Price have not been appropriated or will otherwise not be made available to BPCA. Except as provided in this Section 27.13, Contractor hereby waives any and all rights and remedies to which Contractor might otherwise be or become entitled to because of any wrongful act or omission of BPCA, Construction Manager, or Engineer saving only Contractor's right to money damages.

#### **27.14 Modification of Agreement**

No change in or modification, termination or discharge of this Agreement in any form whatsoever shall be valid or enforceable unless it is in writing and signed by the party to be charged therewith or its duly authorized representative, provided, however, that any change in or modification, termination or discharge of this Agreement expressly provided for in this Agreement shall be effective as so provided.

#### **27.15 Signs and Parking**

Contractor agrees that it shall not display on or about the Site any sign, trademark or other advertisement without the approval of BPCA and Construction Manager. Contractor shall not and shall not permit any of its Subcontractors or Materialmen to park any vehicles on the Site.

#### **27.16 Entire Agreement**

The Contract Documents constitute the entire Agreement between the parties and incorporate all prior understandings in connection with the subject matter hereof.



#### **27.17 Rights and Remedies**

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by BPCA, Construction Manager, or Engineer or Contractor including, but not limited to, the making of any payment or permitting Contractor to continue with the performance of the Work shall constitute a waiver of any right or duty afforded any of them under this Agreement, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

#### **27.18 Participation in International Boycott Prohibited**

Contractor agrees, as a material condition of this Agreement, that neither Contractor nor any substantially owned or affiliated person, firm, partnership or corporation has participated or is participating or shall participate in an international boycott in violation of the provisions of the United States Export Administration Act of 1969, as amended, or the United States Export Administration Act of 1979, as amended, or the Regulations of the United States Department of Commerce promulgated thereunder. This Agreement shall be rendered forfeit and void by the Comptroller of the State of New York if, subsequent to execution, such person, firm, partnership or corporation has been convicted of a violation of the provisions of either of such federal acts or such Regulations or has been found upon the final determination of the United States Commerce Department or any other appropriate agency of the United States to have violated the provisions of either of such federal acts or such Regulations.

#### **27.19 Compliance with "Buy-American" Statutes**

Contractor and any substantially owned or affiliated person, firm, partnership or corporation agrees to comply with the New York State Public Authorities Law, Section 2603-A as amended (affects steel or steel products).

#### **27.20 Permitted Successors**

References to parties and entities herein shall be deemed to include their permitted successors.

#### **27.21 MacBride Fair Employment Principles**

If the amount payable to Contractor under this agreement is greater than \$15,000, Contractor hereby certifies that it and/or any individual or legal entity in which it holds a 10% or greater ownership interest, and any individual or legal entity that holds a 10% or greater ownership in it, either have no business operations in Northern Ireland; or shall take lawful steps in good faith to conduct any business operations they have in Northern Ireland in accordance with the MacBride Fair Employment Principles relating to nondiscrimination in

employment and freedom of workplace opportunity regarding such operations in Northern Ireland, as set forth in Section 165 (5.) of New York's State Finance Law, and shall permit independent monitoring of their compliance with such Principles.

#### **27.22 Termination for Failure to Disclose Under NYS Finance Law §139k**

BPCA reserves the right to terminate this contract in the event it is found that the certification filed by Contractor pursuant to New York State Finance Law §139-k was intentionally false or intentionally incomplete. Upon such finding, BPCA may exercise its termination right by providing written notification to the Contractor in accordance with the written notification terms of this contract. If a contract is terminated in accordance with State Finance Law §139k(5), BPCA, its subsidiaries and affiliates, will include a statement in BPCA's procurement record describing the basis for any action taken under the termination provision.

#### **27.23 Labor Peace**

The Contractor and its Subcontractors and Materialmen shall not employ on the Work any labor, materials or means whose employment, or utilization during the course of this Agreement, may tend to or in any way cause or result in strikes, Work stoppages, delays, suspension of Work or similar troubles by workers employed by the Contractor or its Subcontractors, Materialmen, or by any of the trades working in or about the buildings and premises where Work is being performed under this Agreement, or by other contractors or their subcontractors pursuant to other agreements, or on any other building or premises owned or operated by BPCA, its contractors or affiliates. Any violation by the Contractor of this requirement may be considered as proper and sufficient cause for declaring the Contractor to be in default, and for BPCA to take action against Contractor as set forth in Article 15 of this Agreement, or such other Section of this Agreement as BPCA may deem proper.

#### **27.24 Comptroller's Approval**

If this Agreement is considered an "eligible contract," as defined by Title 2 of NYCRR Part 206.2, it is subject to the New York State Comptroller's approval, and therefore shall not be valid and enforceable until that approval has been obtained. A contract is considered an "eligible contract," as defined by Title 2 of NYCRR Part 206.2, if it is not a specifically exempt contract, is executed by a state authority on or after March 1, 2010 where the aggregate consideration under the contract may reasonably be valued in excess of one million dollars, AND the contract is either (A) awarded on a single-source basis, sole-source basis or pursuant to any other method of procurement that is not a competitive procurement OR (B) shall be paid in whole or in part with monies appropriated by the State, either directly to a state authority or to a state agency which pays the money to a state authority.

#### **27.25 Key Person/Personnel**

The parties understand that in entering into this Agreement, BPCA has relied upon Contractor's representation that Name, Title, Company and Name, Title, Company

(hereinafter the “Key Personnel”) will be directly and consistently involved in supervising the Work and actively engaged in the day-to-day management of the Work, which shall include attending mandatory Project meetings. If the Key Personnel are not available as described herein, or if the Key Personnel depart from the firm or severs their relationship with the Contractor, or for whatever other reason are not available to work on the Project, then BPCA shall have the right to terminate this Agreement. The parties also agree that at any time during the course of the Work, BPCA may designate additional or substitute key personnel to perform the Work. Contractor agrees to make the additional or substituted key personnel available under the same conditions set forth herein.

**27.26 Form of Agreement Not an Offer**

Notwithstanding anything herein to the contrary, the submission of this form of Agreement by BPCA to Contractor shall not constitute an offer, and execution hereof by Contractor shall not be considered acceptance of an offer. A binding contract between the parties shall exist only if and at such time as both parties have executed this document.

**SIGNATURE PAGE FOLLOWS**

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, as of the date first above written.

BATTERY PARK CITY AUTHORITY, d/b/a  
HUGH L. CAREY BATTERY PARK CITY AUTHORITY

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

CONTRACTOR NAME

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**EXHIBIT D**  
**COST PROPOSAL**

(Proposer to submit executed Cost Proposal on its letterhead)

Date:

Battery Park City Authority (“BPCA”)  
200 Liberty - 24th Floor  
New York, New York 10281

Attention: Mr. Michael LaMancusa, Contract Administrator

Dear Mr. LaMancusa:

The undersigned (the “Proposer”) hereby proposes to provide all work necessary to perform the **Phase 6 Pile Remediation – Marine Construction Services Project**. The Proposer agrees to commence the Work immediately upon execution of the Contract, in accordance with its terms, and complete the Project for the lump sum written below.

**A. Cost Proposal**

A total lump-sum amount of \$\_\_\_\_\_ (\_\_\_\_\_ Dollars and \_\_\_\_\_ Cents) to perform all of the work described in, and associated with, the Scope of Work in Exhibit A of the RFP.

**B. Itemized Proposal and Labor Rates**

1. The Proposer has submitted with its cost proposal an itemized cost for the Work according to the attached Schedule of Values, in the form of Exhibit E, to BPCA’s Request for Proposal for the Project.
2. The Proposer has submitted with its Cost Proposal, labor rates in the form of Exhibit F to BPCA’s Request for Proposal for the Project, for all trades, including all costs except overhead and profit. Prices shown include base hourly rate, overtime rate, insurance, and benefits.

Proposer:

\_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

**EXHIBIT E**  
**SCHEDULE OF VALUES**

General Conditions \$ \_\_\_\_\_

Bonds \$ \_\_\_\_\_

Insurance \$ \_\_\_\_\_

**Location 1 Esplanade Plaza**

Mobilization/Demobilization \$ \_\_\_\_\_

Pile Remediation \$ \_\_\_\_\_

**Location 2 Rockefeller Park Esplanade**

Mobilization/Demobilization \$ \_\_\_\_\_

Pile Remediation \$ \_\_\_\_\_

**Location 3 North Esplanade**

Mobilization/Demobilization \$ \_\_\_\_\_

Pile Remediation \$ \_\_\_\_\_

**TOTAL** \$ \_\_\_\_\_

If required:

Additional Mobilization/Demobilization  
due to temporary barge relocation \$ \_\_\_\_\_ per temporary relocation

**EXHIBIT F**

**LABOR RATES**

The following labor rates are to be listed by craft and classification (Foreman, Journeyman, etc.), and are to include base wages, benefits, taxes, insurance, and payroll costs complete. Overhead and profit are not to be included:

<b><u>CRAFT</u></b>	<b><u>CLASSIFICATION</u></b>	<b><u>HOURLY RATES</u></b>	<b><u>OVERTIME</u></b>
<u>LABORER</u> <u>CONCRETE</u>	<hr/>	<hr/>	<hr/>
<u>CARPENTER</u>	<hr/>	<hr/>	<hr/>
<u>IRON WORKER</u>	<hr/>	<hr/>	<hr/>
<u>LABORER</u>	<hr/>	<hr/>	<hr/>
<u>LABORERS - LESS</u> <u>SKILLED</u>	<hr/>	<hr/>	<hr/>
<u>OPERATING</u> <u>ENGINEER</u>	<hr/>	<hr/>	<hr/>
<u>FIELD</u> <u>SUPERVISOR</u>	<hr/>	<hr/>	<hr/>
<u>FOREMAN</u>	<hr/>	<hr/>	<hr/>
<u>TEAMSTER</u>	<hr/>	<hr/>	<hr/>
<u>ELECTRICIAN</u>	<hr/>	<hr/>	<hr/>
<u>PLUMBER</u>	<hr/>	<hr/>	<hr/>

**EXHIBIT G**

**DRAWINGS AND SPECIFICATIONS**



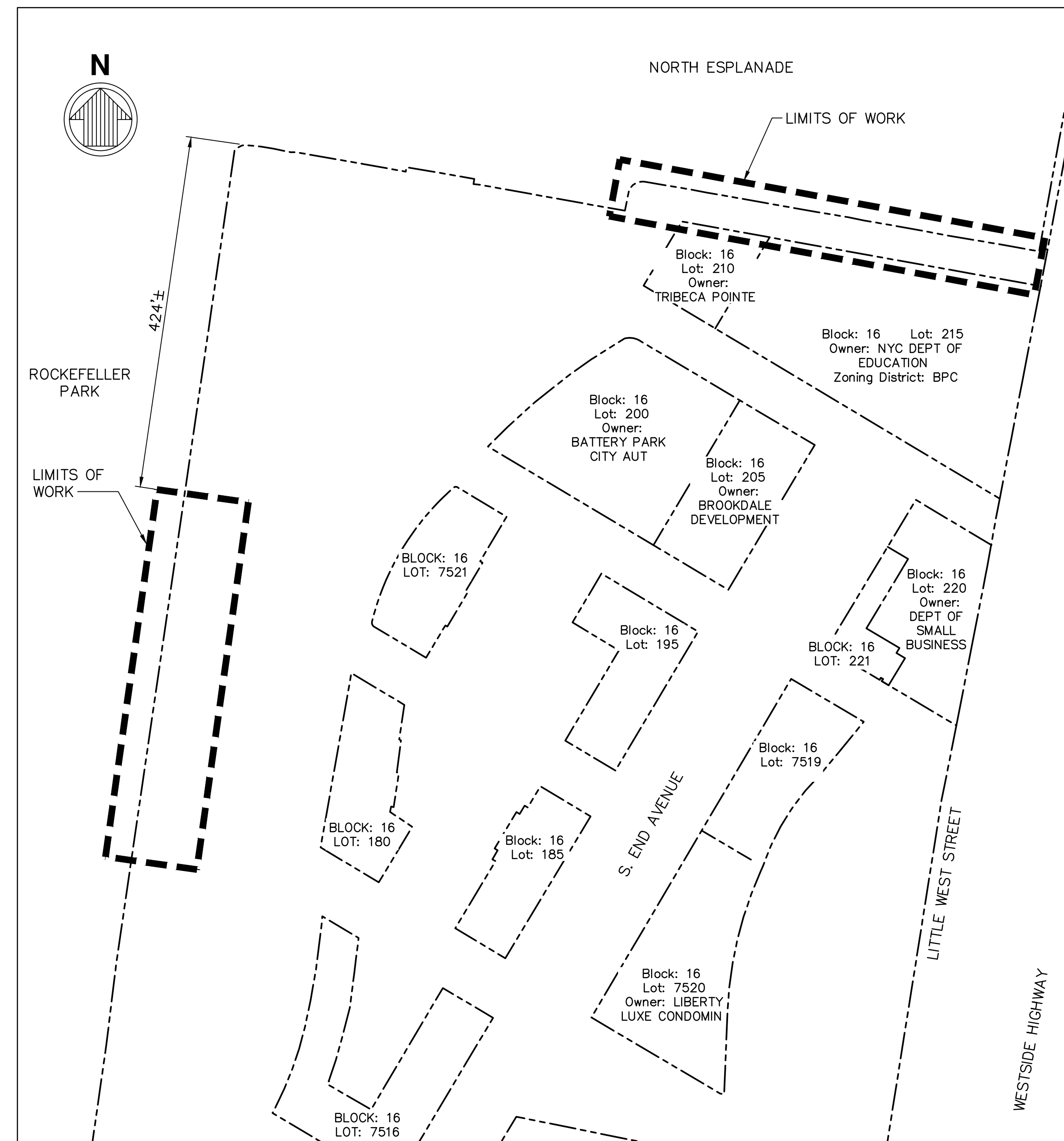
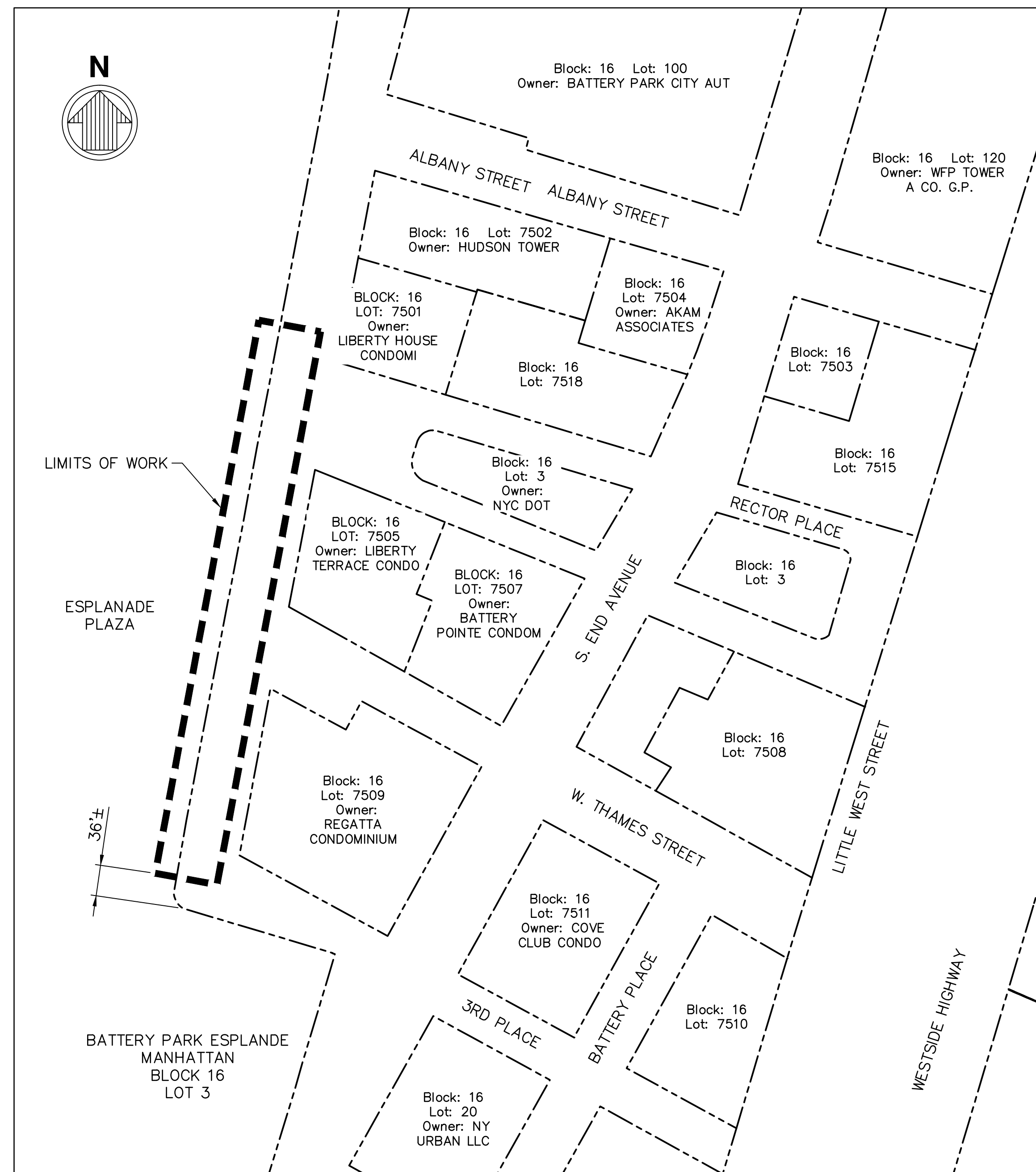
# A

INDEX TO DRAWINGS		
INDEX NO.	SHEET NO.	SHEET TITLE
1	G-001	TITLE SHEET
2	G-002	BLOCK AND LOT DIAGRAM
3	G-003	FEMA MAPS
4	G-004	GENERAL NOTES
STRUCTURAL		
5	S-101	FACILITY PLAN – ELEVATIONS AND LOCATION KEY
6	S-102	FACILITY PLAN – ELEVATIONS AND LOCATION KEY
7	S-103	FACILITY PLAN – ELEVATIONS AND LOCATION KEY
8	S-501	REPAIR DETAILS
9	S-502	REPAIR DETAILS
10	S-601	PILE REPAIR SCHEDULE – SHEET 1 OF 5
10	S-602	PILE REPAIR SCHEDULE – SHEET 2 OF 5
12	S-603	PILE REPAIR SCHEDULE – SHEET 3 OF 5
13	S-604	PILE REPAIR SCHEDULE – SHEET 4 OF 5
14	S-605	PILE REPAIR SCHEDULE – SHEET 5 OF 5



**A**





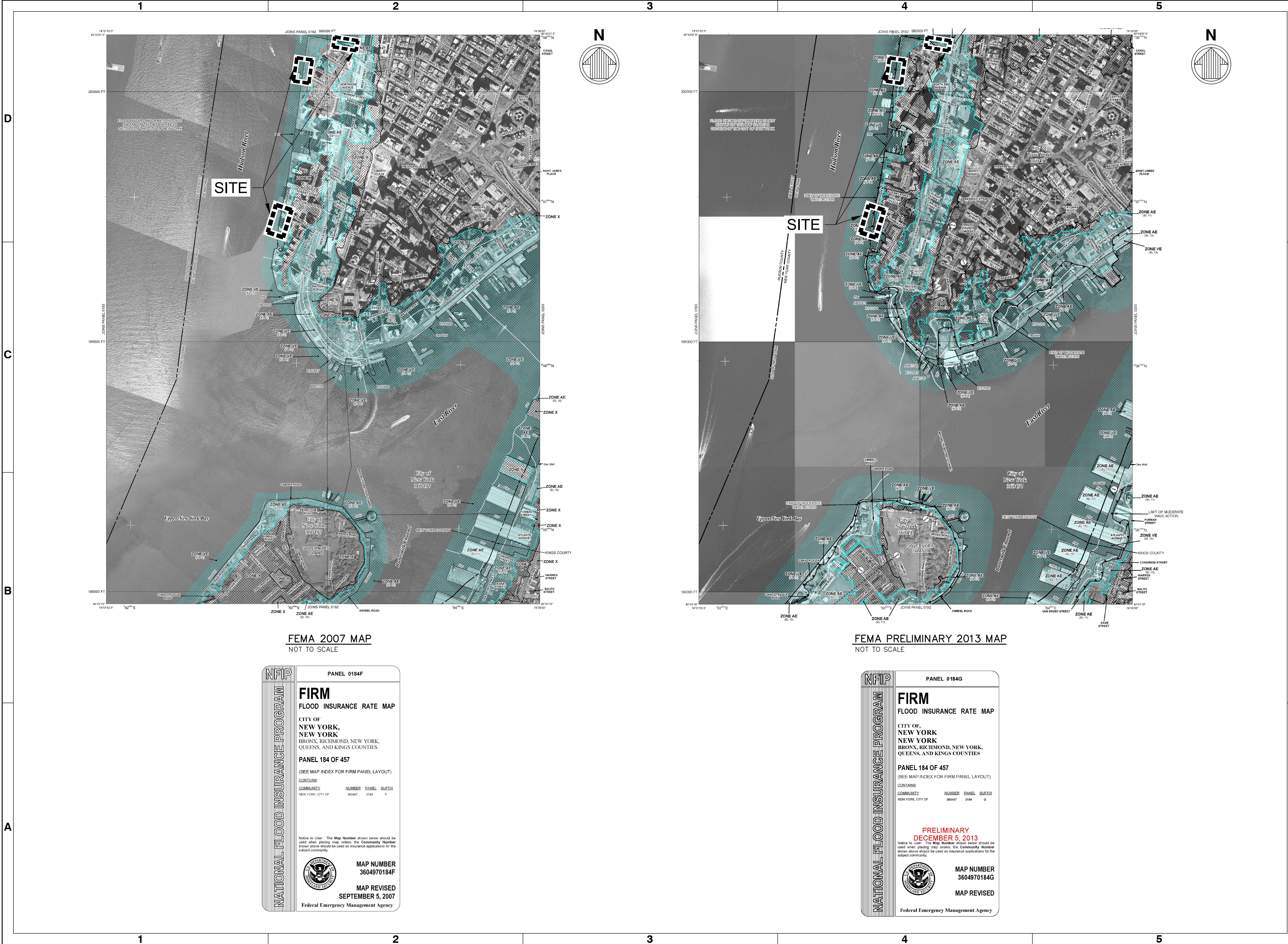
**BLOCK AND LOT DIAGRAM: ESPLANADE PLAZA**  
NOT TO SCALE


BLOCK AND LOT DIAGRAM: ROCKEFELLER PARK ESPLANADE & NORTH ESPLANADE  
NOT TO SCALE

OWNER: BATTERY PARK CITY AUTHORITY  
ZONING DISTRICT: BPC


[illegible]





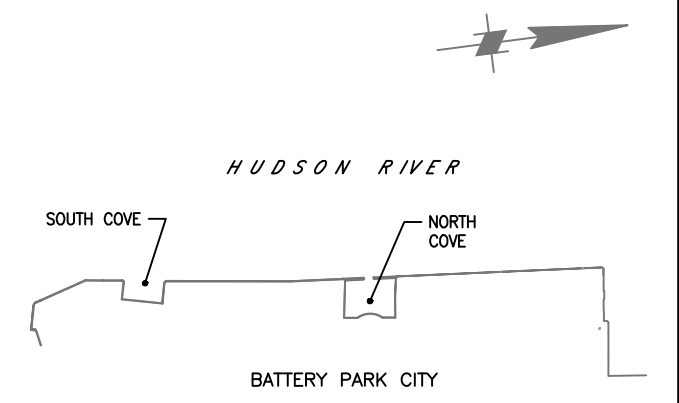


**Battery Park City Authority**



**m&n engineering, p.c.**  
529 FIFTH AVENUE, 14TH FLOOR  
NEW YORK, NY 10017  
(212) 768-7454

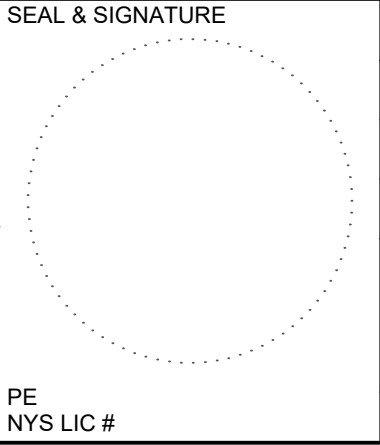
NO.	REVISION	APPD	DATE

**KEY PLAN**

**PROJECT**  
BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

**DRAWING TITLE**  
  
FEMA MAPS

**DOB IDENTIFICATION NUMBER**  
--

**SEAL & SIGNATURE**

**DATE:** SEPTEMBER 2018  
**PROJECT NO.** 9328  
**DRAWN BY** BF  
**CHECKED BY** JS  
**DRAWING NO.**  
**G-003**  
**SHEET NO.** 3 of 14

**DOB APPROVAL STAMP**

File: \\mne.net\projects\NY\10213 bpca p6\80 CADD\\_phase v\10213G--003; Plotted: 9/20/2018 9:17 AM by SMILEK, NICK; Saved: 9/20/2018 9:10 AM by NSMILEK



1

2

3

4

5

GENERAL NOTES

1.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. IN CASE OF DISCREPANCIES, THE CONTRACT DRAWINGS SHALL GOVERN.

2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL WORK ON THE CONTRACT DOCUMENTS, INCLUDING DEMOLITION AND REMOVAL AND INSTALLATION OF ALL WORK MATERIALS IN FULL COMPLIANCE WITH CODES, RULES AND REGULATIONS GOVERNING SAID WORK.

3.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS OF THE WORK AND FOR THE SAFETY OF THE SITE.

4.

CONTRACTOR SHALL VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING OF MATERIAL, OR PERFORMING ANY WORK. CONTRACTOR SHALL NOTIFY THE OWNER’S REPRESENTATIVE, IN WRITING, OF ANY DISCREPANCIES IN CONDITIONS AND/OR DIMENSIONS FOUND IN THE FIELD AND IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL ALSO NOTIFY THE OWNER’S REPRESENTATIVE OF ANY CONDITIONS THAT MAY HAMPER THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

5.

THROUGHOUT THE CONTRACT DRAWINGS, SPECIFICATIONS AND THESE GENERAL NOTES THE TERM "OWNER" IS USED. THIS TERM REFERENCES THE BATTERY PARK CITY AUTHORITY (BPCA).

6.

UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE ALL DEBRIS, EQUIPMENT AND UNUSED MATERIAL FROM THE SITE.

7.

ALL DEMOLISHED MATERIAL, EXCEPT ITEMS DIRECTED BY THE OWNER TO BE SALVAGED, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.

8.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CONSTRUCTION SITE AND THE AREAS OF WORK WHILE PERFORMING THE WORK UNDER THIS CONTRACT. CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE ON A DAILY BASIS. NO BURNING OF DEBRIS SHALL BE PERMITTED.

9.

DURING ALL PHASES OF THE WORK, ALL PRECAUTIONS SHALL BE TAKEN AS NECESSARY OR MAY BE REQUIRED TO PERMANENTLY PREVENT CONTAMINATED WATER, GASOLINE, CONSTRUCTION DEBRIS AND ANY OTHER CONTAMINANT FROM ENTERING THE WATERWAY. THIS INCLUDES MATERIAL BEING PUMPED INTO PILE FORMS.

10.

CONTRACTOR SHALL INSTALL A FLOATING BOOM AND TURBIDITY CURTAIN DURING ALL PHASES OF MARINE CONSTRUCTION.

11.

DISPOSAL OF HAZARDOUS OR CONTAMINATED MATERIALS, GROUNDWATER OR SOIL ENCOUNTERED SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.

12.

CONTRACTOR SHALL EXERCISE CARE TO PREVENT DAMAGE TO ANY MATERIALS OR STRUCTURES THAT ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THESE MATERIALS AT NO ADDITIONAL COST TO THE OWNER. THE RESTORATION WORK SHALL BE APPROVED BY THE OWNER’S REPRESENTATIVE.

13.

ALL AREAS OUTSIDE OF THE "LIMITS OF WORK" SHOWN ON THE CONTRACT DRAWINGS, WHICH ARE DAMAGED BY THE WORK, SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. THE RESTORATION WORK SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.

14.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.

15.

THE CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL WORK AND DELIVERIES OF CONSTRUCTION MATERIALS ON SITE WITH THE CONSTRUCTION MANAGER. THERE IS LIMITED ACCESS TO THE SITE DUE TO TRAFFIC BARRIERS, TREES, PLANTS, SHRUBS, BENCHES, TRASH CANS, ETC. ALL EGRESS AND EXITS TO AND FROM THE PIER AND CONSTRUCTION SITE SHALL BE KEPT READILY ACCESSIBLE AND CLEAR AT ALL TIMES. CONSTRUCTION EQUIPMENT WILL NOT BE PERMITTED TO OBSTRUCT ROADWAYS AND OR PASSAGEWAYS.

16.

THE CONTRACTOR SHALL PREPARE, LAYOUT AND INSTALL WORK IN SUCH A MANNER AS NOT TO DELAY OR INTERFERE WITH THE CARRYING FORWARD OF THE WORK UNDER THIS CONTRACT AND/OR ANY OTHER WORK BEING PERFORMED ON THE SITE. CONTRACTOR SHALL SUBMIT A LOGISTICS PLAN THAT DEMONSTRATES HOW THE PROJECT WILL BE STAGED AND WORK PERFORMED. THIS PLAN SHALL INCLUDE POSITIONING OF EQUIPMENT DURING ALL PHASES OF WORK. THIS PLAN SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW BY THE OWNER'S REPRESENTATIVE. NO WORK ON THIS SITE SHALL BE PERMITTING TO COMMENCE PRIOR TO THE REVIEW OF THIS DOCUMENT.

17.

CONTRACTOR SHALL SEEK APPROVAL OF OWNER’S REPRESENTATIVE PRIOR TO MOVING AND/OR STORING ANY CONSTRUCTION MATERIALS ON THE SITE. IN ADDITION, THE CONTRACTOR SHALL SUBMIT TO THE OWNER’S REPRESENTATIVE FOR REVIEW THE GROSS VEHICLE WEIGHT AND AXLE ALIGNMENT OF ANY HEAVY MACHINERY THAT WILL BE DRIVEN ON THE SITE. NO HEAVY CONSTRUCTION MACHINERY WILL BE PERMITTED ON PIER UNTIL THIS REVIEW HAS BEEN COMPLETED.

18.

THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR HIS USE OF THE PHASE 6 SITE.

19.

CONTRACTOR SHALL ALLOW AND MAKE ANY NECESSARY ACCOMMODATIONS FOR THE INSPECTION OF WORK BY OWNER'S REPRESENTATIVE AT ANY TIME DURING THE INSTALLATION OF WORK GOVERNED BY THE CONTRACT DOCUMENTS.

GENERAL NOTES CONT'D

20.

UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS OR IN THE CONTRACT OR SPECIFICATIONS, ALL LABOR, EQUIPMENT, MATERIALS, ETC. SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM PRICE TO COMPLETE THE WORK. ADDITIONAL UNIT PRICES MAY ALSO BE REQUESTED IN THE BID DOCUMENTS.

21.

THE LOCATIONS OF EXISTING CONCRETE PILES AND OTHER STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DRAWINGS ARE BASED ON AVAILABLE INFORMATION AND ARE SCHEMATIC. CONTRACTOR'S BID SHOULD TAKE THIS INTO CONSIDERATION AND SHOULD BE BASED ON FIELD VERIFICATION OF EXISTING CONDITIONS.

22.

CONCRETE PILES MAY NOT BE PERFECTLY PLUMB IN THEIR EXISTING CONDITION. CONTRACTOR SHALL TAKE THIS CONDITION INTO ACCOUNT IN THE BASE BID FOR THIS WORK.

23.

THE CONTRACTOR SHALL PROVIDE AN OFFICE TRAILER FOR THE CONSTRUCTION MANAGEMENT AND/OR INSPECTION TEAM ON THE BARGES, ONE IN THE NORTH AND ONE IN THE SOUTH

PERMITTING

1.

ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE IN COMPLIANCE WITH PERMITS AND PERMIT MODIFICATIONS ISSUED BY ANY REGULATING AGENCY HAVING JURISDICTION OVER THE WORK INCLUDING BUT NOT LIMITED TO UNITED STATES ARMY CORPS OF ENGINEERS (USACOE), NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC), AND THE NEW YORK CITY DEPARTMENT OF SMALL BUSINESS SERVICES (SBS).

2.

THE CONTRACTOR SHALL PERFORM NO WORK ON THE SITE WITHOUT WRITTEN APPROVALS FORM THE USACOE, NYDEC AND THE NY SBS AND ALL OTHER APPLICABLE AGENCIES HAVING JURISDICTION OVER THE SITE.

3.

CONTRACTOR IS REQUIRED TO OBTAIN THE REQUIRED WORK PERMITS VIA THE SBS. THE CONTRACTOR’S SUBMISSION SHALL INCLUDE THE SEQUENCE OF OPERATIONS AND THE MEANS AND METHODS TO BE USED FOR THE PROPOSED WORK. FEES ASSOCIATED WITH THESE PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

4.

THE PROPOSED REPAIR IS NOT OF A SUBSTANTIALLY DAMAGED EXISTING STRUCTURE NOR IS THE WORK A SUBSTANTIAL IMPROVEMENT OF AN EXISTING STRUCTURE AND IS THEREFORE NOT SUBJECT TO THE REQUIREMENTS OF TITLE 28 APPENDIX G OR ASCE 24–05.

5.

THE PROPOSED WORK DOES NOT AFFECT THE STRUCTURAL STABILITY OF THE ESPLANADE.

6.

SUBSURFACE INVESTIGATION IS NOT REQUIRED FOR PROPOSED REPAIR.

EPOXY MORTAR AND CEMENTITIOUS GROUT ENCASEMENTS

1.

CONTRACTOR SHALL SUBMIT ALL PROPOSED MATERIALS FOR THE ENCASEMENTS FOR APPROVAL PRIOR TO STARTING THE WORK.

2.

CONTRACTOR SHALL CLEAN AND PREPARE ALL SURFACES TO BE ENCASED IN CONCRETE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.

3.

THE EPOXY MORTAR FOR THE ENCASEMENTS SHALL BE PLACED INSIDE THE FORMWORK WITHIN 72 HOURS OF THE CLEANING OF THE PILE, UNLESS OTHERWISE APPROVED BY THE OWNER’S REPRESENTATIVE. JUST PRIOR TO PLACEMENT OF THE CONCRETE, THE EXISTING PILE AND ENCASEMENT SHALL UNDERGO A FINAL CLEANING TO REMOVE ANY MARINE GROWTH OR DEBRIS THAT MAY HAVE ENTERED THE FORMWORK AFTER THE INITIAL CLEANING AND SHALL BE THOROUGHLY RINSED WITH FRESH WATER.

4.

NO CONSTRUCTION OR EXPANSION JOINTS SHALL BE PERMITTED OTHER THAN BOTTOM PLUGS DESCRIBED IN THE PROJECT SCHEDULE SECTION OF THIS SHEET. EACH ENCASEMENT SHALL BE PLACED IN A CONTINUOUS MANNER FROM START TO FINISH. HORIZONTAL CONSTRUCTION JOINTS ARE PROHIBITED.

5.

INSTALLED WORK FOUND TO HAVE VOIDS, NON–EVENLY DISTRIBUTED MATERIAL WILL BE REJECTED. REJECTED WORK SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH THE REPAIR SHOWN ON THE REPAIR SCHEDULE AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.

MATERIALS

1.

EPOXY MORTAR/CEMENTITIOUS GROUT

A. EPOXY MORTAR GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'c) OF 6000 PSI.

B. EPOXY MORTAR AND FORMWORK SHALL BE SUITABLE FOR PLACEMENT IN THE MARINE ENVIRONMENT (FULL IMMERSION IN SALT WATER) VIA PUMPING, AND SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING COMPANIES OR AN APPROVED SUBSTITUTION:

a. BASF BUILDING SYSTEMS OF SHAKOPEE, MN

b. FIVE STAR PRODUCTS OF SHELTON, CT

c. SIKA CORPORATION OF LYNDHURST, NJ

d. SIMPSON STRONG TIE OF PLEASANTON, CA

e. DENSO NORTH AMERICA OF HOUSTON, TX

2.

CEMENTITIOUS HAND PACK SHALL BE SPEEDCRETE BLUE LINE MANUFACTURED BY EUCLID CHEMICAL OF CLEVELAND, OH OR APPROVED EQUAL.

3.

FORMWORK SHALL BE A MINIMUM OF 1/8TH INCH THICK TRANSLUCENT RIGID FIBERGLASS REINFORCED PLASTIC (FRP). FORMS SHALL HAVE SUFFICIENT STRENGTH TO WITHSTAND THE PRESSURE RESULTING FROM ALL ENVIRONMENTAL FORCES PRIOR TO THE PLACEMENT OF CONCRETE AS WELL AS FORCES EXERTED DURING THE PLACEMENT OF CONCRETE AND SHALL HAVE SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES.

PROJECT DATUM

1.

VERTICAL DATUM FOR THIS PROJECT IS NAVD88. ALL ELEVATIONS SHOWN ON DRAWINGS ARE IN THIS DATUM SYSTEM.

2.

MBD REFERENCES THE MANHATTAN BOROUGH DATUM.

DATUMS (FT)	MLLW	NAVD88	MBD
HIGHEST OBSERVED WATER LEVEL (10/30/2012)	14.04	11.26	9.61
MEAN HIGHER HIGH WATER (MHHW)	5.05	2.28	0.63
MEAN HIGH WATER (MHW)	4.73	1.96	0.31
BOROUGH PRESIDENT OF MANHATTAN (MBD)	4.43	1.65	0.00
NAVD88	2.77	0.00	−1.65
MEAN SEA LEVEL (MSL)	2.57	−0.21	−1.86
MEAN TIDE LEVEL (MTL)	2.47	−0.31	−1.96
MEAN LOW WATER (MLW)	0.21	−2.57	−4.22
MEAN LOWER LOW WATER (MLLW)	0.00	−2.77	−4.43
LOWEST OBSERVED WATER LEVEL (2/2/1976)	−4.29	−7.06	−8.71

3.

NOAA STATION ID 8518750 (THE BATTERY) WAS UTILIZED IN DATUM CONVERSION CALCULATIONS.

1

2

3

4

5

1

2

3

4

5

OWNER/ CLIENT

NEW YORK

STATE OF OPPORTUNITY.

Battery Park

City Authority

PRIME CONSULTANT

m&n engineering, p.c.

529 FIFTH AVENUE, 14TH FLOOR

NEW YORK, NY 10017

(212) 768-7454

NO.	REVISION	APPD	DATE

KEY PLAN

PROJECT

BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

DRAWING TITLE

GENERAL NOTES

DOB IDENTIFICATION NUMBER

--

SEAL & SIGNATURE

DATE: SEPTEMBER 2018

PROJECT NO. 9328

DRAWN BY BF

CHECKED BY JS

DRAWING NO. G-004

SHEET NO. 4 of 14

PE

NYS LIC #

BSCAN

DOB APPROVAL STAMP

1

2

3

4

5

1

2

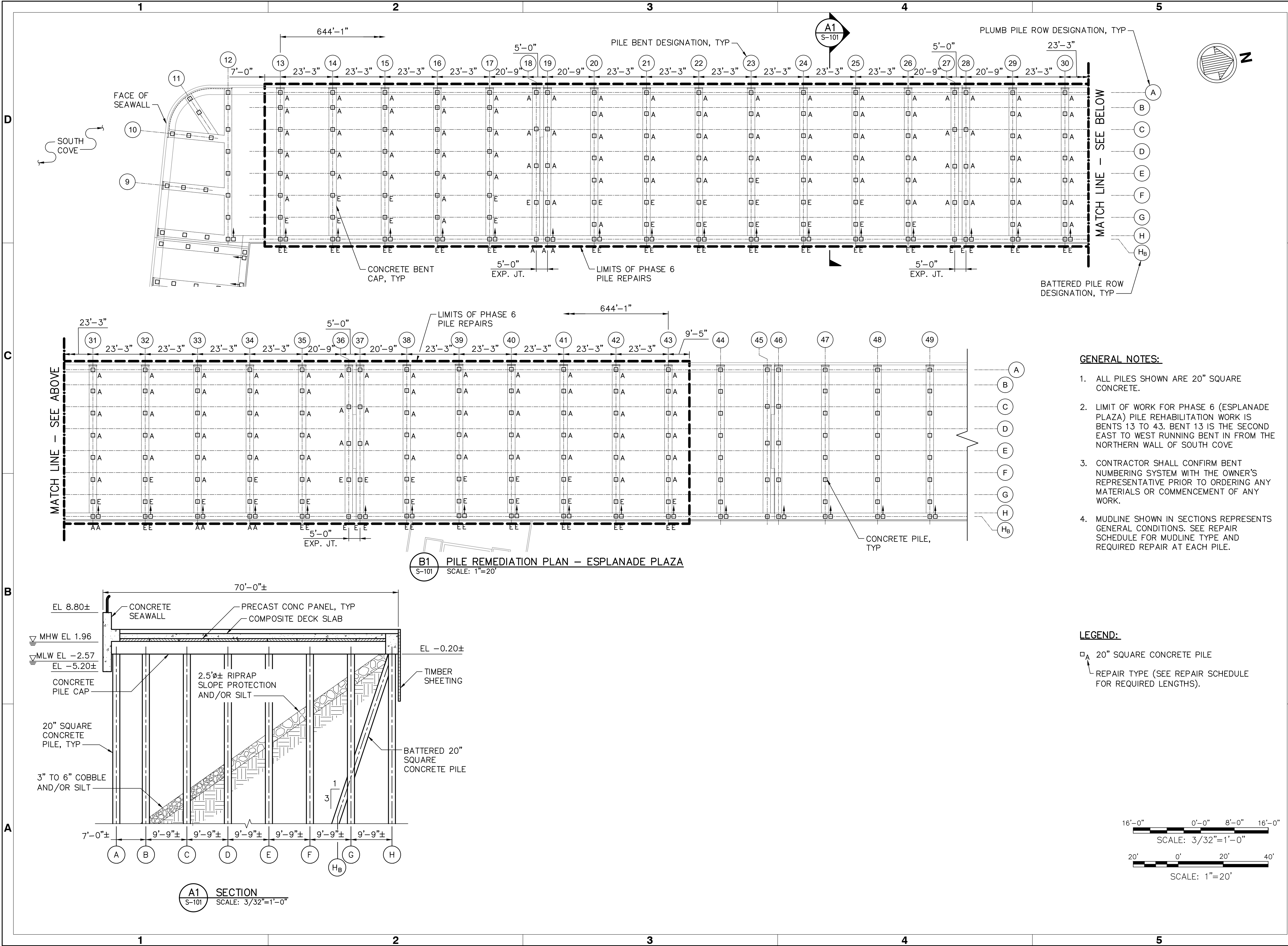
3

4

5

File: \\mne.net\projects\NY\10213 bpca p6\80 CADD\\_phase v\10213G--004; Plotted: 9/20/2018 9:16 AM by SMILEK, NICK; Saved: 9/20/2018 9:16 AM by NSMILEK





OWNER/ CLIENT

NEW YORK

STATE OF

OPPORTUNITY.

Battery Park  
City Authority

PRIME CONSULTANT

m&n engineering, p.c.

529 FIFTH AVENUE, 14TH FLOOR  
NEW YORK, NY 10017  
(212) 768-7454

NO.	REVISION	APPD	DATE

KEY PLAN

PROJECT  
BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

DRAWING TITLE  
FACILITY PLAN - ELEVATIONS  
AND LOCATION KEY

DOB IDENTIFICATION NUMBER  
--

SEAL & SIGNATURE

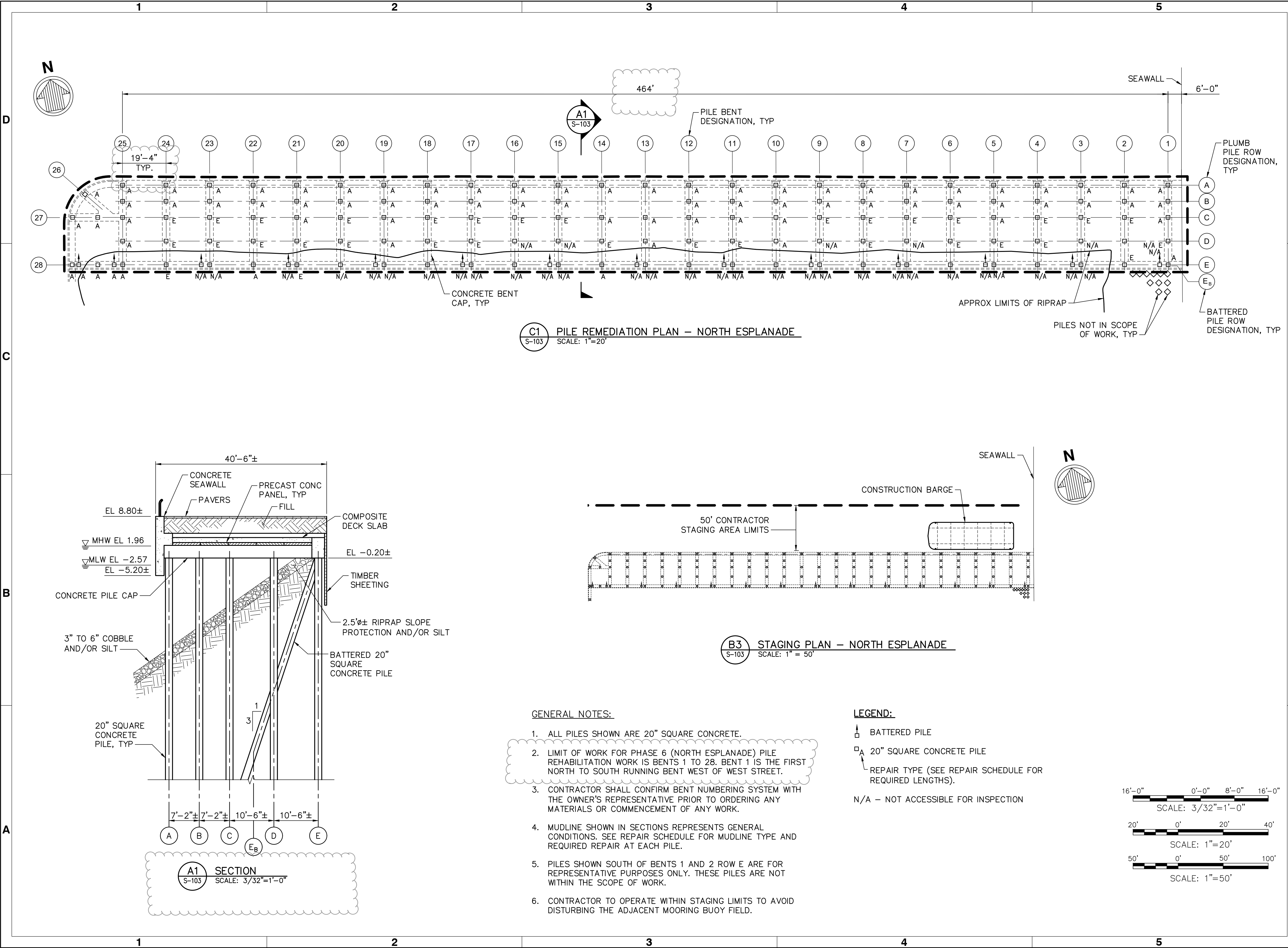
DATE: SEPTEMBER 2018  
PROJECT NO. 9328  
DRAWN BY BF  
CHECKED BY JS  
DRAWING NO. S-101  
PE NYS LIC # BSCAN  
SHEET NO. 5 of 14

DOB APPROVAL STAMP

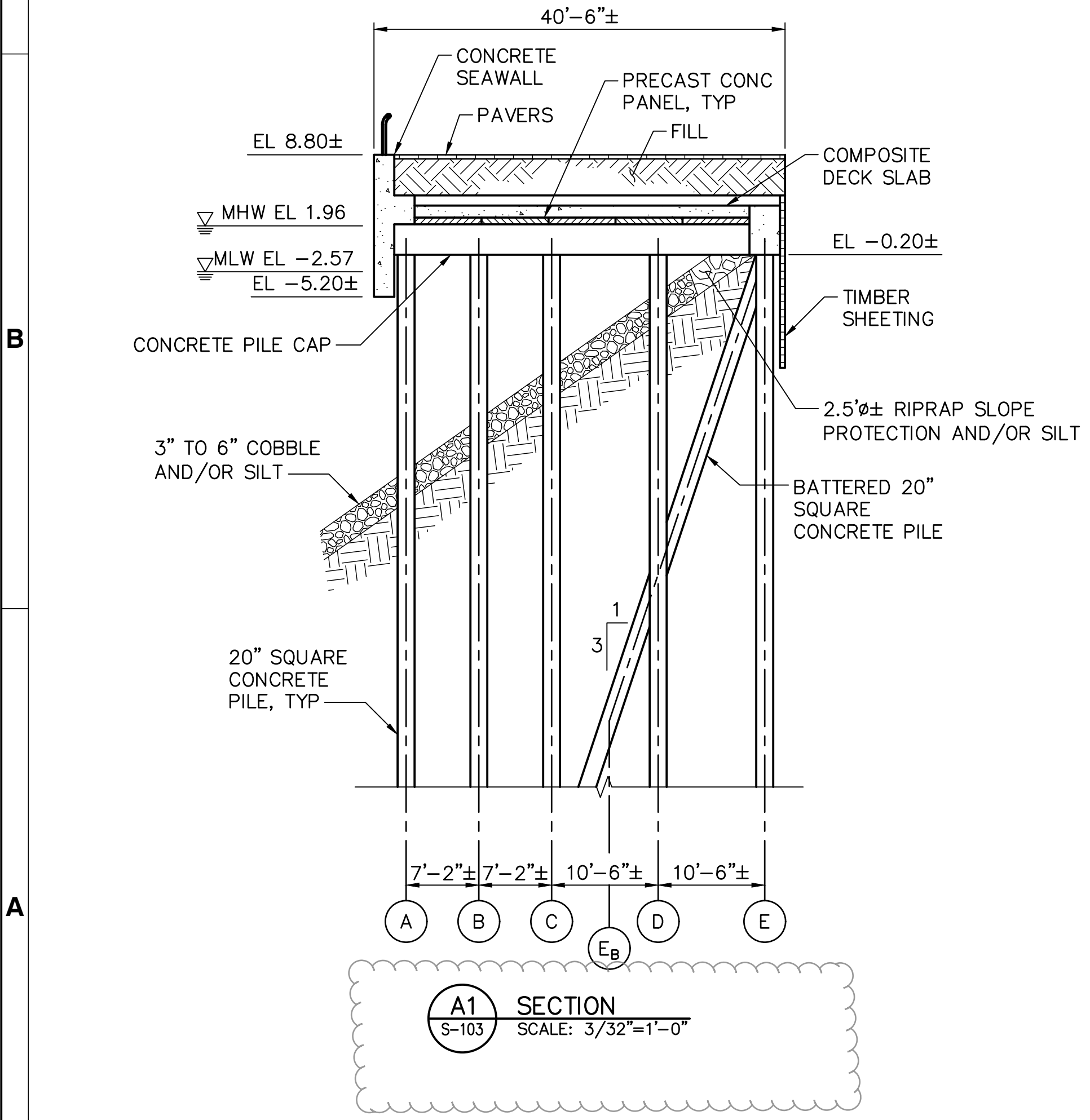
File: \\mne.net\projects\NY\10213 bpca p6\80 CADD\\_phase v\10213S-101; Plotted: 9/20/2018 12:26 PM by SMILEK, NICK; Saved: 9/20/2018 12:26 PM by NSMILEK



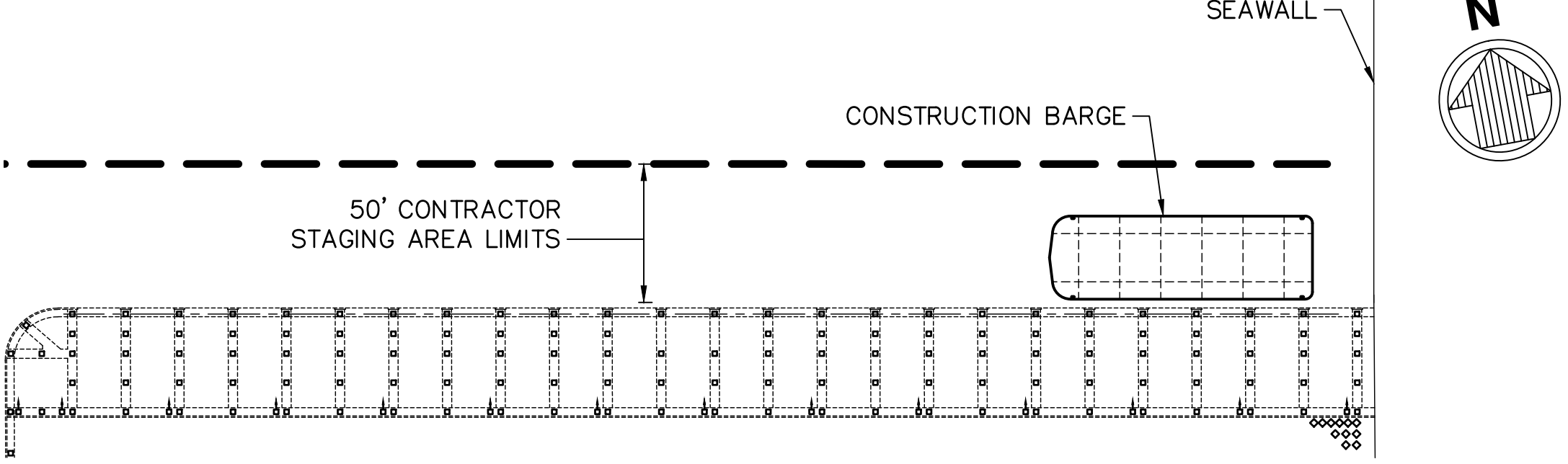




C1 PILE REMEDIATION PLAN – NORTH ESPLANADE  
SCALE: 1"=20'



A1 SECTION  
SCALE: 3/32"=1'-0"



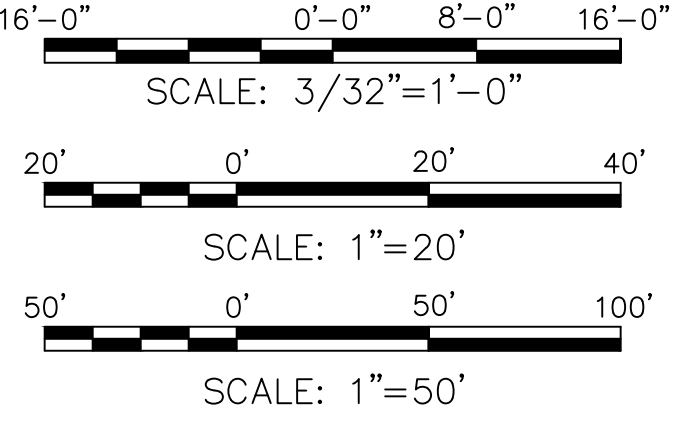
B3 STAGING PLAN – NORTH ESPLANADE  
SCALE: 1"= 50'

GENERAL NOTES:

1. ALL PILES SHOWN ARE 20" SQUARE CONCRETE.
2. LIMIT OF WORK FOR PHASE 6 (NORTH ESPLANADE) PILE REHABILITATION WORK IS BENTS 1 TO 28. BENT 1 IS THE FIRST NORTH TO SOUTH RUNNING BENT WEST OF WEST STREET.
3. CONTRACTOR SHALL CONFIRM BENT NUMBERING SYSTEM WITH THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING ANY MATERIALS OR COMMENCEMENT OF ANY WORK.
4. MUDLINE SHOWN IN SECTIONS REPRESENTS GENERAL CONDITIONS. SEE REPAIR SCHEDULE FOR MUDLINE TYPE AND REQUIRED REPAIR AT EACH PILE.
5. PILES SHOWN SOUTH OF BENTS 1 AND 2 ROW E ARE FOR REPRESENTATIVE PURPOSES ONLY. THESE PILES ARE NOT WITHIN THE SCOPE OF WORK.
6. CONTRACTOR TO OPERATE WITHIN STAGING LIMITS TO AVOID DISTURBING THE ADJACENT MOORING BUOY FIELD.

LEGEND:

- ⬆ BATTERED PILE
- 20" SQUARE CONCRETE PILE
- A REPAIR TYPE (SEE REPAIR SCHEDULE FOR REQUIRED LENGTHS).
- N/A – NOT ACCESSIBLE FOR INSPECTION



OWNER/ CLIENT

NEW YORK

STATE OF

OPPORTUNITY.

Battery Park  
City Authority

PRIME CONSULTANT

m&n engineering, p.c.

529 FIFTH AVENUE, 14TH FLOOR  
NEW YORK, NY 10017  
(212) 768-7454

1	SEAWALL LENGTH ADJUSTMENT	DJ	2/26/19
NO.	REVISION	APPD	DATE

KEY PLAN

PROJECT

BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

DRAWING TITLE

FACILITY PLAN - ELEVATIONS  
AND LOCATION KEY

DOB IDENTIFICATION NUMBER

--

SEAL & SIGNATURE

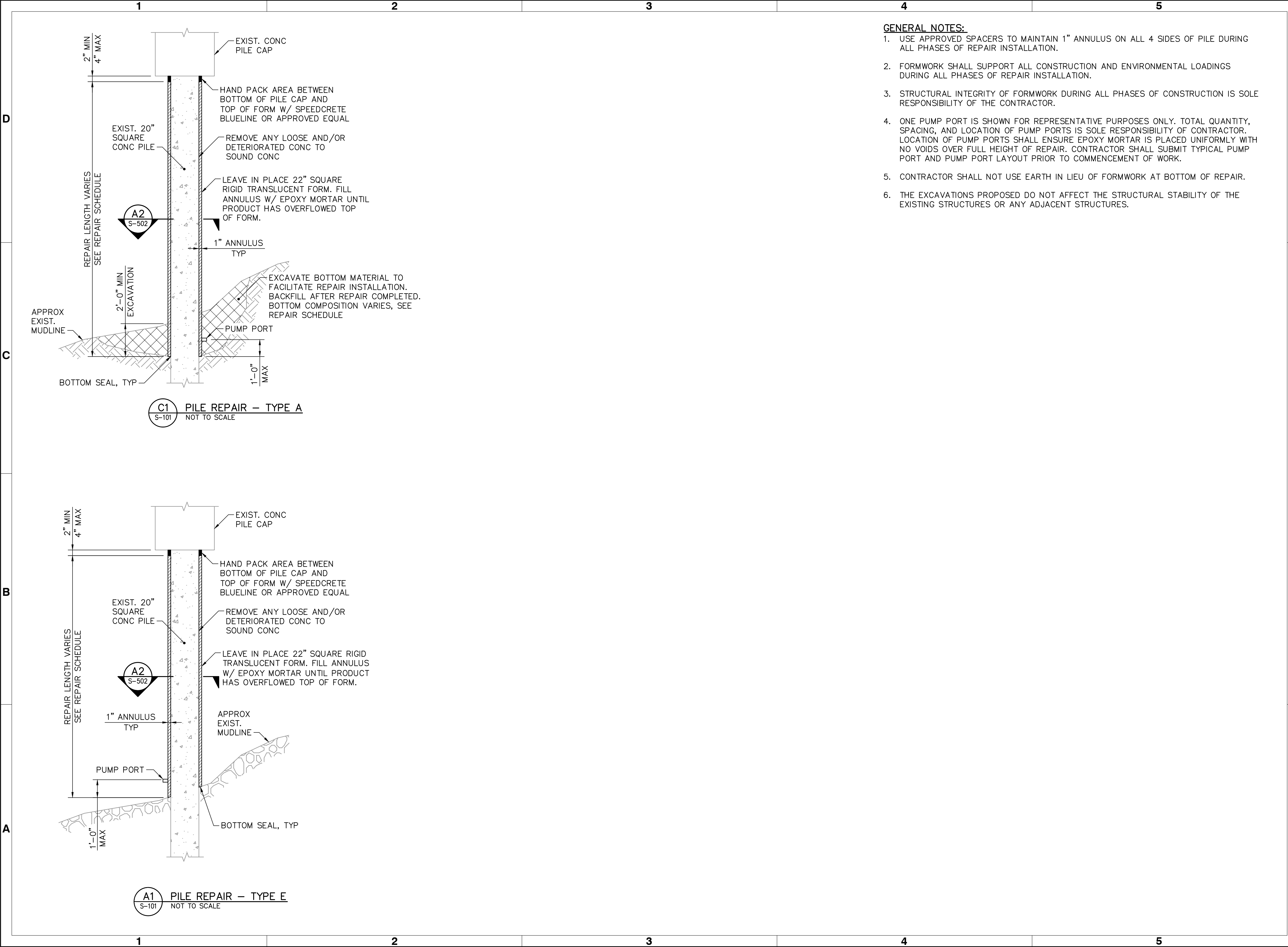
DATE: SEPTEMBER 2018  
PROJECT NO. 9328  
DRAWN BY BF  
CHECKED BY JS  
DRAWING NO. S-103

PE  
NYS LIC #  
BSCAN

SHEET NO. 7 of 14


DOB APPROVAL STAMP

File: Q:\NY\10213 BPCA P6\80 CADD\Phase VI\10213S-103; Plotted: 2/26/2019 9:36 AM by ESTIMABLE, MIGUELINA; Saved: 2/26/2019 9:24 AM by MESTIMABLE



- GENERAL NOTES:**
1. USE APPROVED SPACERS TO MAINTAIN 1" ANNULUS ON ALL 4 SIDES OF PILE DURING ALL PHASES OF REPAIR INSTALLATION.
  2. FORMWORK SHALL SUPPORT ALL CONSTRUCTION AND ENVIRONMENTAL LOADINGS DURING ALL PHASES OF REPAIR INSTALLATION.
  3. STRUCTURAL INTEGRITY OF FORMWORK DURING ALL PHASES OF CONSTRUCTION IS SOLE RESPONSIBILITY OF THE CONTRACTOR.
  4. ONE PUMP PORT IS SHOWN FOR REPRESENTATIVE PURPOSES ONLY. TOTAL QUANTITY, SPACING, AND LOCATION OF PUMP PORTS IS SOLE RESPONSIBILITY OF CONTRACTOR. LOCATION OF PUMP PORTS SHALL ENSURE EPOXY MORTAR IS PLACED UNIFORMLY WITH NO VOIDS OVER FULL HEIGHT OF REPAIR. CONTRACTOR SHALL SUBMIT TYPICAL PUMP PORT AND PUMP PORT LAYOUT PRIOR TO COMMENCEMENT OF WORK.
  5. CONTRACTOR SHALL NOT USE EARTH IN LIEU OF FORMWORK AT BOTTOM OF REPAIR.
  6. THE EXCAVATIONS PROPOSED DO NOT AFFECT THE STRUCTURAL STABILITY OF THE EXISTING STRUCTURES OR ANY ADJACENT STRUCTURES.


OWNER/ CLIENT



**Battery Park**

**City Authority**

PRIME CONSULTANT

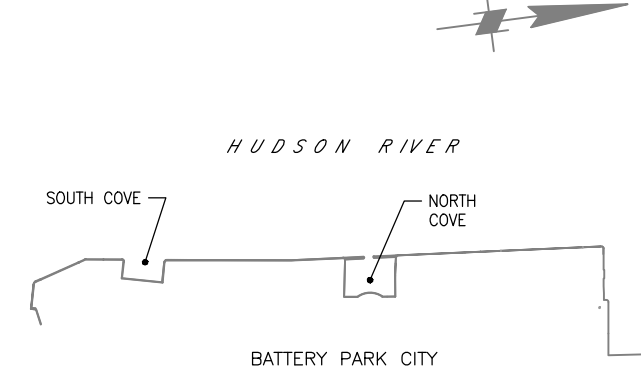


**m&n engineering, p.c.**

529 FIFTH AVENUE, 14TH FLOOR  
NEW YORK, NY 10017  
(212) 768-7454

NO.	REVISION	APPD	DATE

KEY PLAN



PROJECT

BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

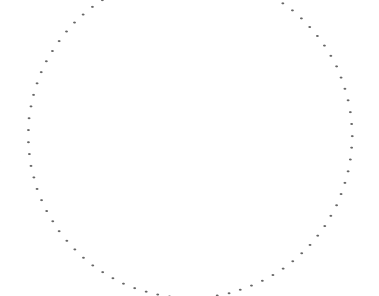
DRAWING TITLE

REPAIR DETAILS

DOB IDENTIFICATION NUMBER

--

SEAL & SIGNATURE



DATE: SEPTEMBER 2018

PROJECT NO. 9328

DRAWN BY BF

CHECKED BY JS

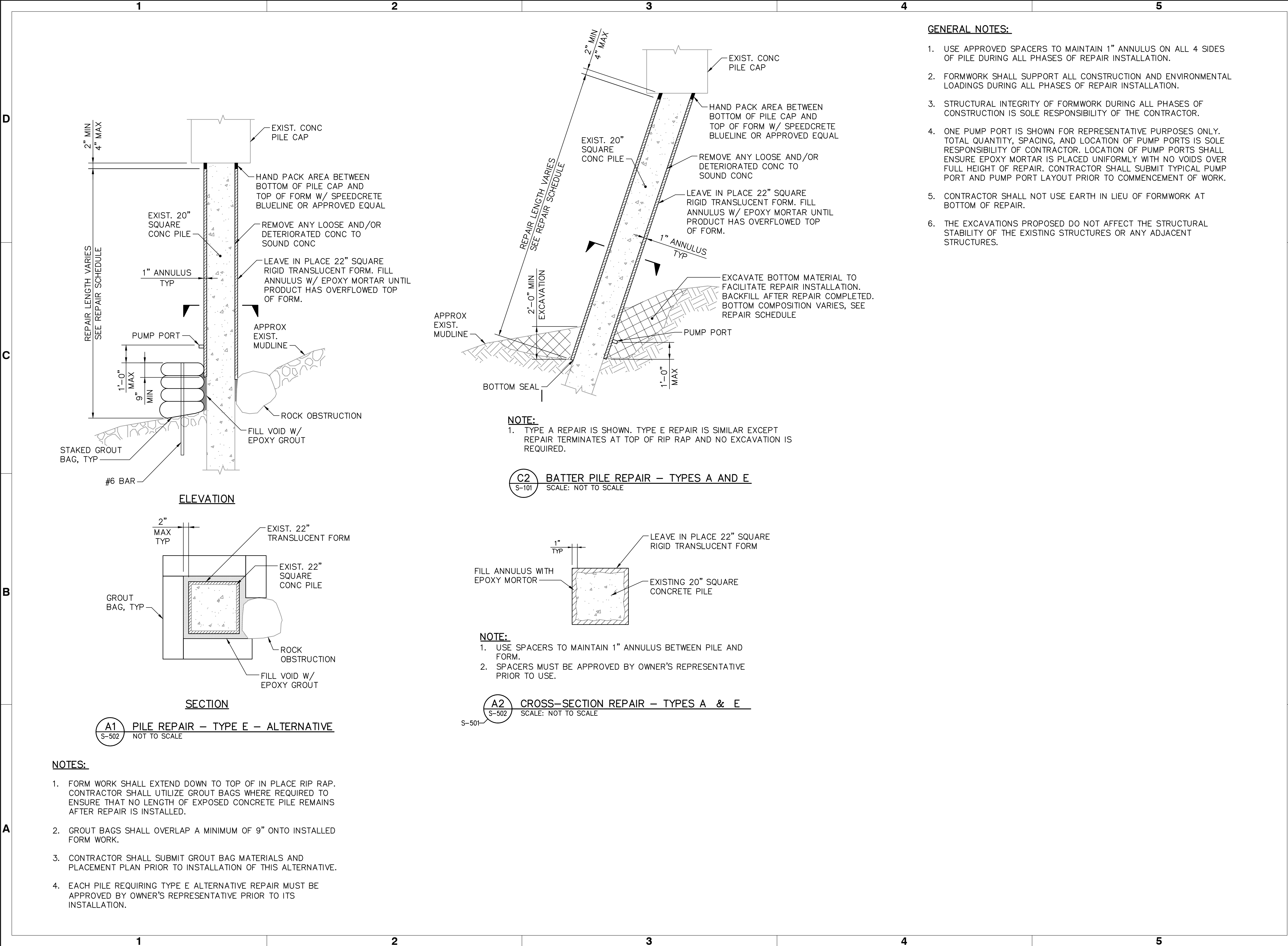
DRAWING NO. S-501

PE NYS LIC # BSCAN

SHEET NO. 8 of 14

DOB APPROVAL STAMP





OWNER/ CLIENT

**NEW YORK**  
STATE OF  
OPPORTUNITY.

**Battery Park  
City Authority**

PRIME CONSULTANT

**m&n engineering, p.c.**

529 FIFTH AVENUE, 14TH FLOOR  
NEW YORK, NY 10017  
(212) 768-7454

NO.	REVISION	APPD	DATE

KEY PLAN

HUDSON RIVER

SOUTH COVE

NORTH COVE

BATTERY PARK CITY

PROJECT

BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

DRAWING TITLE

**REPAIR DETAILS**

DOB IDENTIFICATION NUMBER

--

SEAL & SIGNATURE

DATE: SEPTEMBER 2018

PROJECT NO. 9328

DRAWN BY BF

CHECKED BY JS

DRAWING NO. S-502

PE  
NYS LIC #  
BSCAN

SHEET NO. 9 of 14

DOB APPROVAL STAMP



[illegible]



D

C

B

A

1

2

3

4

5

ESPLANADE PLAZA					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
28	D.3	20.5	A	SILT AND COBBLES & ROCK	
28	F	10.5	A	SILT AND COBBLES	3-6
28	H	5.5	E	SILT, GRAVEL AND RIPRAP	12-28
28	HB	5.5	E	SILT, GRAVEL AND RIPRAP	12-28
29	A	37	A	SAND AND GRAVEL W/ ROCK BELOW	0-3
29	B	34	A	SILT AND GRAVEL W/ ROCK BELOW	0-3
29	C	26	A	SILT W/ROCK BELOW	
29	D	22	A	SILT W/ROCK BELOW	
29	E	16	A	SILT OVER COBBLES	0-3
29	F	12	A	SILT OVER ROCK	
29	G	7	A	COBBLES & RIPRAP	6-10
29	H	4	E	RIPRAP	20-24
29	HB	4	E	RIPRAP	20-24
30	A	37	A	SILT W/ ROCK BELOW	
30	B	34	A	SILT W/ ROCK BELOW	
30	C	28	A	SILT	
30	D	22	A	SILT W/ROCK BELOW	
30	E	16	A	SILT OVER ROCK	0-3
30	F	13	A	SILT & COBBLES OVER ROCK	
30	G	7	A	SILT & COBBLES & RIPRAP	6-10
30	H	4	E	RIPRAP	20-24
30	HB	4	E	RIPRAP	20-24
31	A	39	A	SILT W/ ROCK BELOW	0-1
31	B	37	A	SILT W/ ROCK BELOW	
31	C	29	A	SILT W/ ROCK BELOW	
31	D	24	A	SILT W/ ROCK BELOW	
31	E	19	A	SILT W/ ROCK BELOW	
31	F	14	A	SILT & COBBLES W/ RIPRAP	6-12
31	G	7	E	COBBLES W/ RIPRAP	6-10/50
31	H	6	A	COBBLES W/ RIPRAP	6-10/20
31	HB	6	A	COBBLES W/ RIPRAP	6-10/20
32	A	39	A	SILT & COBBLES	0-6
32	B	37	A	SILT & COBBLES	0-6
32	C	30	A	SILT & GRAVEL W/ ROCK BELOW	
32	D	25	A	SILT W/ ROCK BELOW	
32	E	19	A	SILT W/ ROCK BELOW	
32	F	13	E	SILT & COBBLES	2-36
32	G	8	E	COBBLE W/ RIPRAP	6-10/36
32	H	4	E	COBBLES W/ RIPRAP	6-10/24
32	HB	4	E	COBBLES W/ RIPRAP	6-10/24
33	A	38	A	SILT & COBBLES	3-6
33	B	35	A	SILT & COBBLES	0-3
33	C	30	A	SILT W/ ROCK BELOW	
33	D	24	A	SILT W/ ROCK BELOW	
33	E	19	A	SILT W/ ROCK BELOW	
33	F	14	A	SILT W/ RIPRAP	0/12-20
33	G	8	E	COBBLE W/ RIPRAP	6-10/20-24
33	H	6	A	COBBLES W/ RIPRAP	6-10/20

ESPLANADE PLAZA					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
33	HB	6	A	COBBLES W/ RIPRAP	6-10/20
34	A	37	A	SILT & COBBLES	0-3
34	B	34	A	SILT & COBBLES	0-3
34	C	30	A	SILT W/ ROCK BELOW	
34	D	23	A	SILT W/ ROCK BELOW	
34	E	18	A	SILT W/ ROCK BELOW	
34	F	12	E	SILT W/ RIPRAP	2-36
34	G	8	E	COBBLE W/ RIPRAP	6-10/24-30
34	H	6	A	COBBLES W/ RIPRAP	6-10/18
34	HB	6	A	COBBLES W/ RIPRAP	6-10/18
35	A	39	A	SILT & COBBLES	0-3
35	B	35	A	SILT & COBBLES	0-3
35	C	30	A	SILT W/ ROCK BELOW	
35	D	23	A	SILT W/ ROCK BELOW	
35	E	18	A	SILT W/ ROCK BELOW	
35	F	14	A	SILT & COBBLES W/ RIPRAP	3-6/20
35	G	7	E	COBBLE W/ RIPRAP	6-10/24
35	H	4	E	COBBLES W/ RIPRAP	6-10/20-30
35	HB	4	E	COBBLES W/ RIPRAP	6-10/20-30
36	A	38	A	SAND, SILT W/ ROCK BELOW	
36	B.7	29	A	SILT	
36	D.3	20	A	SILT W/ ROCK BELOW	
36	F	11	E	SILT W/ RIPRAP	20-30
36	H	4	E	RIPRAP	20-30
37	A	39	A	SAND, SILT W/ ROCK BELOW	
37	B.7	30	A	SILT	
37	D.3	21	A	SILT W/ ROCK BELOW	
37	F	12	E	SILT W/ RIPRAP	20-40
37	H	4	E	RIPRAP	20-30
37	HB	4	E	RIPRAP	20-30
38	A	41	A	SILT & COBBLES W/ CONC CHUNKS W/ ROCK BELOW	0-2
38	B	37	A	SILT W/ ROCK BELOW	
38	C	30	A	SILT W/ ROCK BELOW	
38	D	23	A	SILT W/ ROCK BELOW	
38	E	19	A	SILT W/ ROCK BELOW	
38	F	12	E	SILT & COBBLES W/ RIPRAP	3-6/36
38	G	7	E	COBBLE W/ RIPRAP	3-6/24-30
38	H	5	E	RIPRAP	20-30
38	HB	5	E	RIPRAP	20-30
39	A	38	A	SILT W/ ROCK BELOW	
39	B	36	A	SILT W/ ROCK BELOW	
39	C	29	A	SILT W/ ROCK BELOW	
39	D	22	A	SILT W/ ROCK BELOW	
39	E	16	A	SILT W/ ROCK BELOW	
39	F	10	E	SILT W/ ROCK BELOW	20
39	G	6	E	COBBLE W/ ROCK	36
39	H	5	E	ROCK	40
39	HB	5	E	ROCK	40
40	A	37	A	SILT & COBBLES W/ ROCK BELOW	1-3

ESPLANADE PLAZA					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
40	B	33	A	SILT W/ ROCK BELOW	
40	C	29	A	SILT W/ ROCK BELOW	
40	D	22	A	SILT W/ ROCK BELOW	
40	E	15	A	SILT W/ ROCK BELOW	
40	F	11	E	SILT/SAND (FACE 1)-RIP RAP (FACE 4)	20
40	G	8	E	ROCK	40
40	H	5	E	ROCK	20-30
40	HB	5	E	ROCK	20-30
41	A	37.5	A	SILT & COBBLES W/ ROCK BELOW	0-3/12-18
41	B	34.5	A	SILT & COBBLES	3
41	C	28.5	A	SILT & COBBLES W/ ROCK BELOW	3
41	D	23.5	A	SILT & COBBLES W/ ROCK BELOW	3
41	E	18.5	A	SILT & COBBLES W/ ROCK BELOW	3
41	F	11.5	E	SAND, SILT & COBBLES W/ RIPRAP	3-12/30
41	G	6.5	E	COBBLES AND RIPRAP	6-10/20 TO 24
41	H	4.5	E	COBBLES AND RIPRAP	6-10/20 TO 24
41	HB	4.5	E	COBBLES AND RIPRAP	6-10/20 TO 24
42	A	39	A	SILT & GRAVEL W/ ROCK BELOW	
42	B	37	A	SILT W/ ROCK BELOW	
42	C	30	A	SILT W/ ROCK BELOW	
42	D	25	A	SILT W/ ROCK BELOW	
42	E	19	A	SILT W/ ROCK BELOW	
42	F	15	A	SILT & GRAVEL W/ ROCK BELOW	10-12
42	G	8	E	COBBLES AND RIPRAP	3-6/36
42	H	4	E	COBBLES AND RIPRAP	6-10/20 TO 24
42	HB	4	E	COBBLES AND RIPRAP	6-10/20 TO 24
43	A	39	A	SILT W/ ROCK BELOW	
43	B	38	A	SILT W/ ROCK BELOW	
43	C	31	A	SILT W/ ROCK BELOW	
43	D	25	A	SILT W/ ROCK BELOW	
43	E	19	A	SILT W/ ROCK BELOW	3
43	F	15	A	SILT W/ ROCK BELOW	3
43	G	7	E	RIPRAP	12-24/30
43	H	4	E	COBBLES AND RIPRAP	6-10/24
43	HB	4	E	COBBLES AND RIPRAP	6-10/24

OWNER/ CLIENT

NEW YORK

STATE OF OPPORTUNITY.

Battery Park City Authority

PRIME CONSULTANT

m&n engineering, p.c.

529 FIFTH AVENUE, 14TH FLOOR  
NEW YORK, NY 10017  
(212) 768-7454


D

C

B

A



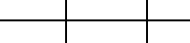
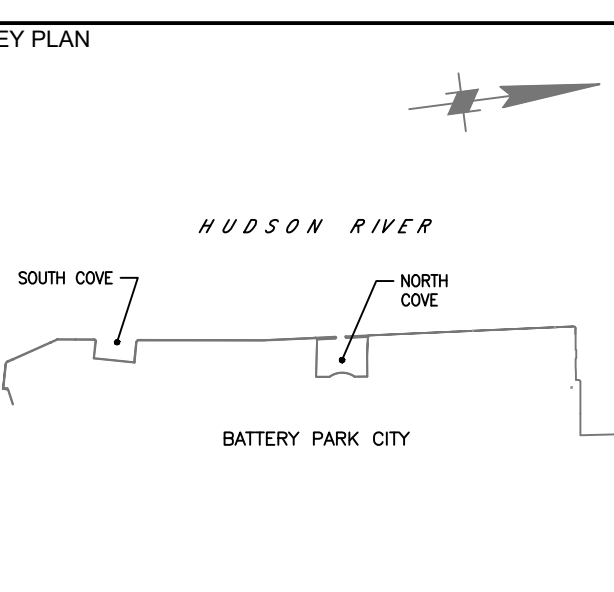
ROCKEFELLER PARK ESPLANADE					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
93	A	32	A	GRAVEL	
93	B	31	A	MUD	
93	C	25	A	MUD	
93	D	20	A	MUD	
93	E	16	A	COBBLE	3-6
93	F	12	A	ROCK	12-18
93	G	5	E	ROCK	12-20
93	H	3	E	ROCK	12-24
93	HB	3	E	ROCK	12-24
94	A	33	A	MUD	
94	B	32	A	MUD	
94	C	25	A	MUD	
94	D	20	A	GRAVEL/MUD	
94	E	15	A	COBBLE/MUD	3-6
94	F	11	A	ROCK	12-18
94	G	5	E	ROCK	24
94	H	5	A	ROCK	6-12
94	HB	5	A	ROCK	6-12
95	A	32	A	SILTY GRAVEL	
95	B	31	A	MUD	
95	C	24	A	MUD	
95	D	19	A	GRAVEL/MUD	
95	E	15	A	COBBLE	3-6
95	F	11	A	COBBLE	3-6
95	G	7	A	ROCK	18
95	H	5	A	ROCK	6-18
95	HB	5	A	ROCK	6-18
96	A	32	A	MUD	
96	B	31	A	MUD	
96	C	25	A	MUD	
96	D	19	A	MUD	
96	E	15	A	COBBLE/GRAVEL	6
96	F	11	A	COBBLE/ROCK	6-8
96	G	7	A	ROCK/COBBLE	6-18
96	H	5	A	ROCK	6-18
96	HB	5	A	ROCK	6-18
97	A	32	A	SILTY MUD	
97	B	31	A	SILTY MUD	
97	C	25	A	SILTY MUD	
97	D	20	A	SILTY MUD	
97	E	15	A	F1/ SILTY MUD F3/COBBLE	3-6
97	F	11	A	COBBLE/ROCK	6-8
97	G	5	E	ROCK	12-30
97	H	5	A	ROCK	6-18
97	HB	5	A	ROCK	6-18
98	A	34	A	MUD	
98	A.9	32	A	MUD	
98	B	32	A	MUD	
98	C	15	A	MUD	
98	D	25	A	MUD/SILT	
98	E	16	A	MUD/COBBLE	6-8
98	F	12	A	COBBLE/ROCK	6-8

ROCKEFELLER PARK ESPLANADE					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
98	G	5	E	ROCK	12-30
98	H	5	A	ROCK	6-18
98	HB	5	A	ROCK	6-18
99	A	34	A	GRAVEL/ MUD	1-3
99	B	32	A	MUD	
99	C	25	A	MUD	
99	D	20	A	MUD	
99	E	16	A	MUD/COBBLE	1-3
99	F	12	A	COBBLE	1-6
99	G	4	E	ROCK	12-30
99	H	3	E	ROCK	24-30
99	HB	3	E	ROCK	24-30
100	A	34	A	MUD	
100	C	24	A	MUD	
100	D.7	16	A	MUD	
100	F.3	9	A	ROCK	6-18
100	H	3	E	ROCK	24-30
101	A	34	A	MUD	
101	C	24	A	MUD	
101	D.7	16	A	MUD	
101	F.3	9	A	ROCK	6-18
101	H	3	E	ROCK	24-30
101	HB	3	E	ROCK	24-30
102	A	34	A	SAND/GRAVEL	
102	B	22	A	MUD	
102	C	25	A	MUD	
102	D	20	A	MUD	
102	E	16	A	MUD	
102	F	13	A	MUD/SHELL	
102	G	6	E	COBBLE/ROCK	12-48
102	H	6	A	ROCK	12-18
102	HB	7	A	ROCK	12-18
103	A	34	A	MUD	
103	B	32	A	MUD	
103	C	26	A	MUD	
103	D	20	A	MUD	
103	E	16	A	MUD	
103	F	12	A	COBBLE	6-8
103	G	6	E	ROCK	24
103	H	5	E	ROCK	12-24
103	HB	5	E	ROCK	12-24
104	A	34	A	MUD	
104	B	33	A	MUD	
104	C	26	A	MUD	
104	D	20	A	MUD	
104	E	16	A	MUD/COBBLE	
104	F	11	A	COBBLE/RCCK	3-12
104	G	6	E	RIP RAP	3-6, UP TO 48
104	H	5	E	ROCK	24-36
104	HB	5	E	ROCK	24-36
105	A	34	A	MUD	
105	B	32	A	MUD	
105	C	26	A	MUD	

ROCKEFELLER PARK ESPLANADE					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
105	D	20	A	MUD	
105	E	16	A	MUD	
105	F	12	A	COBBLE	6-8
105	G	7	E	ROCK	40-60
105	H	7	A	COBBLE	3-6
105	HB	7	A	COBBLE	3-6
106	A	32	A	MUD	
106	B	28	A	MUD	
106	C	24	A	MUD	
106	D	18	A	MUD	
106	E	15	A	MUD	
106	F	9	A	MUD/GRAVEL	
106	G	4	E	RIPRAP	42
106	H	6	A	COBBLES	6
106	HB	6	A	COBBLES	6
107	A	34	A	MUD	
107	B	32	A	MUD	
107	C	25	A	MUD	
107	D	19	A	MUD	
107	E	15	A	MUD & GRAVEL/MUD	
107	F	11	A	COBBLES	6
107	G	4	E	RIPRAP	40
107	H	7	A	COBBLES	6
107	HB	7	A	COBBLES	6
108	A	34	A	MUD	
108	B	30	A	MUD	
108	C	25	A	MUD	
108	D	19	A	MUD	
108	E	15	A	MUD	
108	F	11	A	MUD/COBBLES	2-7
108	G	5	E	COBBLES & ROCK	32
108	H	7	A	COBBLES WITH ROCKS	20
108	HB	7	A	COBBLES WITH ROCKS	15
109	A	33	A	MUD	
109	C	22	A	MUD	
109	D.7	15	A	MUD	
109	F.3	11	A	COBBLES/MUD	4-6
109	H	5	E	COBBLES WITH ROCKS	40
110	A	33	A	MUD	
110	C	23	A	MUD	
110	D.7	15	A	MUD	
110	F.3	11	A	COBBLES/MUD	4-10
110	H	6	E	COBBLES WITH ROCKS	20
110	HB	6	E	COBBLES WITH ROCKS	30
111	A	32	A	MUD	
111	B	30	A	MUD	
111	C	24	A	MUD	





OWNER/ CLIENT																																															
 <div style="display: inline-block; vertical-align: middle; text-align: center;"> <p><b>NEW YORK</b> STATE OF OPPORTUNITY.</p> </div> <div style="display: inline-block; vertical-align: middle; margin-left: 20px;"> <p><b>Battery Park City Authority</b></p> </div>																																															
PRIME CONSULTANT																																															
 <b>m&amp;n engineering, p.c.</b> 529 FIFTH AVENUE, 14TH FLOOR NEW YORK, NY 10017 (212) 768-7454																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">NO.</th> <th style="width: 55%;">REVISION</th> <th style="width: 15%;">APP'D</th> <th style="width: 15%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				NO.	REVISION	APP'D	DATE																																								
NO.	REVISION	APP'D	DATE																																												
KEY PLAN																																															
  																																															
PROJECT																																															
BATTERY PARK CITY AUTHORITY PHASE VI PILE REMEDIATION ESPLANADE PLAZA, ROCKEFELLER PARK ESPLANADE AND NORTH ESPLANADE																																															
DRAWING TITLE																																															
<h2>PILE REPAIR SCHEDULE - SHEET 5 OF 5</h2>																																															
DOB IDENTIFICATION NUMBER																																															
---																																															
SEAL & SIGNATURE  <div style="border: 1px dotted black; border-radius: 50%; width: 150px; height: 150px; margin: 20px auto;"></div> PE NYS LIC # BSCAN		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">DATE:</td> <td style="padding: 2px;">SEPTEMBER 2018</td> </tr> <tr> <td style="padding: 2px;">PROJECT NO.</td> <td style="padding: 2px;">9328</td> </tr> <tr> <td style="padding: 2px;">DRAWN BY</td> <td style="padding: 2px;">BF</td> </tr> <tr> <td style="padding: 2px;">CHECKED BY</td> <td style="padding: 2px;">JS</td> </tr> <tr> <td style="padding: 2px;">DRAWING NO.</td> <td style="padding: 2px; text-align: center;"><b>S-605</b></td> </tr> <tr> <td style="padding: 2px;">SHEET NO.</td> <td style="padding: 2px;">14 of 14</td> </tr> </table>		DATE:	SEPTEMBER 2018	PROJECT NO.	9328	DRAWN BY	BF	CHECKED BY	JS	DRAWING NO.	<b>S-605</b>	SHEET NO.	14 of 14																																
DATE:	SEPTEMBER 2018																																														
PROJECT NO.	9328																																														
DRAWN BY	BF																																														
CHECKED BY	JS																																														
DRAWING NO.	<b>S-605</b>																																														
SHEET NO.	14 of 14																																														
DOB APPROVAL STAMP																																															

**BATTERY PARK CITY AUTHORITY  
PHASE VI PILE REMEDIATION  
NEW YORK, NEW YORK**

**INDEX OF SPECIFICATIONS**

- 00005 - General Conditions
- 01110 - Summary of Work
- 01140 - Work Restrictions
- 01310 - Project Management and Coordination
- 01320 - Construction Progress Documentation
- 01330 - Submittal Procedures
- 01450 - Quality Assurance
- 01575 - Temporary Environmental Controls
- 01700 - Execution Requirements
- 01710 - Cleaning
- 01770 - Closeout Procedures
- 02100 - Site Work General Provisions
- 02270 - Erosion and Sediment Control
- 03310 - Epoxy Mortar and Cementitious Grout Pile Jacketing

AIA Document A201 – General Conditions of the Contract for Construction shall be referenced if not stated otherwise in Section 00710 or in the Contract Documents.

Notwithstanding anything in these specifications and drawings to the contrary, all provisions in the Battery Park City Authority contract hereforth shall supersede any conflicting provisions in these documents. All other provisions of the Contract Documents shall remain in full force and effect. References to the "Authority" in these Conditions shall be deemed to mean "Owner/Owner's Representative" and vice versa

## 1.01 INTRODUCTION

- A. If, during the performance of the Work, the Contractor finds a conflict, error, or discrepancy in the Contract Documents, the Contractor shall report to the Construction Manager in writing immediately. Before proceeding with the Work affected thereby, the Contractor shall obtain a written interpretation or clarification from the Owner's Representative which shall be provided within 24 hours of notification from the Owner. Any work done before the Owner's Representative renders his/her decision is at the Contractor's sole risk and may be forced to remove / modify said work at no additional cost to the Owner.
- B. In the event of discrepancies between the Drawings and Specifications, the Drawings shall govern.
- C. The Specification covers the rehabilitation of Esplanade Repairs at Battery Park City, Manhattan, NY, also referred to herein as the Project Site and is shown in the Contract Drawings.
- D. The Contractor guarantees that in the performance of work, he and every person in his direct or indirect employment (i.e. subcontractors) shall abide by and comply with all federal, state, and local laws including the Occupational Safety and Health Act and waterfront MARSEC USCG requirements.
- E. The term Owner, as used throughout the Contract Documents, designates Battery Park City Authority (BPCA) as the Owner, or its duly authorized representative.
- F. The term Owner's Representative, as used throughout these Specifications, indicates the Owner's authorized representative for a particular activity. The term includes Construction Manager, Engineer-Of-Record, and/or Special Inspector.
- G. It is the responsibility of the Construction Manager to delegate responsibility for particular activities.
- H. The term Engineer-Of-Record or Engineer as used throughout the Contract Documents, designates M&N Engineering P.C.
- I. The term Special Inspector, as used throughout the Contract Documents, refers to the party responsible for on-site construction review of the Work to confirm accordance with the Contract Drawings and applicable sections of the New York City Building Code. The Special Inspector shall be selected by the Construction Manager at the discretion of the Owner.
- J. All correspondence between the Contractor and Engineer of Record and/or Special Inspector shall be directed through the Construction Manager.



- K. The Work shall commence in accordance with the Contractor's accepted schedule. If, in the opinion of the Owner, the Contractor has not mobilized sufficient plant or material and/or if the Contractor does not demonstrate that sufficient work is underway according to the accepted schedule, the Owner reserves the right to terminate the Contract.
- L. In the event of termination of the Contract pursuant to the conditions set forth herein, such termination shall not act so as to relieve the Contractor from liability for any damages sustained by the Owner as a result of any breach by the Contractor of the terms of the Contract.
- M. At the completion of each work day the area around the project site must be clear of all construction equipment, materials and debris. The Contractor shall coordinate with the Construction Manager regarding allowable equipment and material lay down area.
- N. Definitions
  - 1. Work: Material, equipment, labor, and services required for Contractor to fulfill his/her obligations of project or the part of the project considered.
  - 2. Project Site: Battery Park City, New York, NY 10280.
  - 3. Provide: Furnish and install; provide in place.
  - 4. Furnish: Furnish only, not including installation.
  - 5. Install: Furnish and Install in place materials or structures. (Installation of materials furnished by others will be specifically identified).
  - 6. Shall: Mandatory requirement (understood to be applicable whether or not "shall" is used in the sentence structure); omission of "shall" does not make the Specification or Contract Drawing non-mandatory.
  - 7. Contract Sum: This shall be read as the Total Lump Sum Bid by the contractor and accepted by the Owner.
  - 8. Day: Contract "day" shall be as defined in the BPCA master contract.

## 1.02 DESCRIPTION OF WORK

The Work shall include, but not be limited to:

This Agreement covers the complete scope for the type of work included herein, including all incidental work not necessarily indicated or described in the "scope" documents. This Agreement is let on the basis of such documents with the understanding that the Proposer is to furnish all items required for proper completion of the work without adjustment to the Contract Price. It is intended that the Work be of sound and quality installation and the Proposer shall be solely responsible for the inclusion of adequate amounts to cover installation of all items indicated, described or implied.

- A. Mobilization to and demobilization from the site.

- B. Furnish, installation and maintenance of environmental controls and safety measures.
- C. Furnish, installation and maintenance of temporary works.
- D. Coordination of Work with adjacent vessel traffic and usage of the Project Site by others.
- E. Demolition and authorized disposal of components associated with repairs.
- F. All repairs shown in the Contract Drawings.
- G. Providing coordination with the Construction Manager for securing testing services and test results confirming accordance with Contract Documents for Engineer of Record approval.
- H. Providing submittals.
- I. Attendance of authorized representative at project meetings.
- J. Coordination with Construction Manager and/or Engineer of Record for review of Work.
- K. Providing bi-weekly schedule of anticipated work.
- L. Providing daily construction reports.
- M. Providing detailed outline of Proposer's QA/QC protocol.

### 1.03 GENERAL SCOPE OF WORK

#### A. Schedule

Unless otherwise stated in Section 01330, the following submittal schedule of all shop drawings, etc., for review by the Construction Manager and Engineer of Record shall be as follows:

##### 1. Contractor's Submittal

Certain critical items are to be submitted by the Contractor within time frames listed in these Specifications. Unless specifically noted as such, the Contractor shall be responsible for the timely submittal of all required items, taking into account the Owner's Representative's review period as outlined herein, in order to maintain satisfactory progress of the Work.

Proposer shall submit within two (2) weeks after receipt of Contract or Notice to Proceed a detailed schedule to the Owner's Representative conforming with the project milestone installation dates in their submitted proposal.

Contractor shall be responsible to meet all project milestone dates. If the contractor does not meet the milestone dates or is progressing behind schedule, the contractor will be directed by the Owner/Construction Manager to work additional shifts, hours and weekends at no additional cost to the Owner, in order to ensure substantial completion no later than specified project closeout date. The project milestone dates are as follows:

- a. Contractor to complete Shop Drawings: One week after Start Date

- b. Completion of all in water work that affects the mudline: **October 11 2019**
- c. Punch List Walk-Through: October 18, 2019
- d. Final Inspection of Punch List: October 31, 2019

Contractor shall be required to submit an original certificate of insurance to the Construction Manager one week prior to commencement of contracted work in accordance with the Owner's contract.

2. Owner's Representative Review and Comments

Within five (5) days after receipt of Contractor's submittal.

The Work shall be performed in a general sequence developed by the Contractor and submitted to the Construction Manager for review, in accordance with the requirements of the Contract. The Contractor is solely responsible for the means and methods of construction and for the sequences and procedures to be used.

The Contractor shall furnish and coordinate all plant, labor, supervision, materials, equipment and appliances for all demolition and/or construction work in connection with the demolition and/or construction of the marine facilities.

The Contractor acknowledges and is aware that the area is occupied by others and that the site will not be fully closed from public access. All material delivery and operations associated with the Work shall be coordinated with other activities at the site in such a manner as to minimize the impedance on the site's tenants and the public, while maximizing the cost effectiveness and time of the Work. Coordination of equipment mobilization, construction, deliveries, etc. must be made with the Construction Manager.

The Contractor is being made aware of the strong currents and heavy vessel traffic at this site along the Hudson River and in the North Cove. The Contractor shall include any fee to perform work in this environment in their lump sum bid. The Contractor is responsible for securing waterborne equipment at his own risk. Approval from the Construction Manager is required for the location and means of securing such equipment. The Contractor shall provide proper notification to USCG and others as required (i.e. Notice to Mariners).

#### 1.04 EXAMINATION OF EXISTING CONDITIONS

Before submitting a proposal, it is a requirement of this Contract that each proposer visit the site to determine the conditions under which the Work is to be done. Such examination shall include, but not be limited to:

- A. Structural detail of the existing structures and related facilities.
- B. Various on-site utilities and structures not within the Scope of this Contract, but that may impact the execution of the Work. These will remain fully operational throughout the construction period.

- C. The layout and structural condition of the existing structures and water depths.
- D. Access space, possible work areas, and load restrictions.

#### 1.05 PERMITS

The Owner is in the process of securing certain permit amendments and extensions required by federal and state authorities for the proposed activities. Copies of the existing permits are provided as part of the contract documents. Copies of the permit extension applications will be provided to the selected contractor. It is the responsibility of the Contractor to perform the Work in accordance with the terms and conditions of the permits. The Contractor shall post copies of the permits at the site throughout the course of the Work. The Contractor is responsible to obtain all permits associated with the legal disposal of construction debris. The Contractor shall secure all required local authorizations and permits, as well as Notification to Mariners.

#### 1.06 CONTRACTOR-FURNISHED MATERIALS

- A. The Contractor shall furnish all materials for installation in the completed Work as specified hereinafter.
- B. The Contractor shall handle these materials as they are delivered to the site or off-site work areas, and shall store them in a designated storage area by the Construction Manager. If sufficient room is not available, the Contractor shall store materials at his own cost.
- C. The Contractor-furnished material is subject to review by the Owner or Owner's Representative at the plant of manufacture at the Owner's option. Review by the Owner or Owner's Representative is not to be construed as technical in nature and in no way shall be deemed to relieve the Contractor from his/her obligation herein to insure the quality and integrity of the materials supplied by the Contractor for this project.
- D. Project material furnished by the Contractor shall conform to the requirements of the Specifications stated hereinafter. The Contractor shall, as part of the Contract fee, also furnish all consumable materials necessary to complete the Work, such as, but not limited to, welding electrodes, safety equipment, etc.

#### 1.07 LAYOUT

- A. The Contractor shall be solely responsible for the accuracy of all locations, dimensions, and levels and no plea as to instructions or order received from any other sources other than information contained on Contract Drawings, Specifications or in written orders of the Owner or Construction Manager shall justify departure from the dimensions and elevations required by the Contract Drawings.
- B. The Contractor shall take his own measurements at the site, verifying same with the Contract Drawings and existing facilities, and will be held responsible for the proper fit and alignment of completed work in position.

#### 1.08 GUARANTEE

- A. The Contractor shall guarantee to the Owner all materials and workmanship against original defects, or against injury from proper and usual wear when used for the

purpose intended, for twelve (12) months after date of final payment certifications, and shall maintain all items in perfect condition during the period of guarantee.

- B. Defects appearing during the period of guarantee shall be made good by the Contractor at his expense upon written demand of the Owner, it being required that all work shall be in perfect condition when the period of guarantee shall have elapsed. The Owner shall provide notice of correction along with time frame for correction prior to taking action regarding guarantee bonds or penalties.
- C. The Proposer shall follow any and all anti-terrorism security procedures, guidelines, instructions, and regulations with respect to ingress into and egress from the work site, transportation and disposition of material that might be considered contraband as well as any emergency procedures. It is the Proposer's responsibility to make contingencies for the effect upon the scheduling and performance of their work of any and all such regulations and procedures. The cost of such contingencies shall be included in the Contract Price.

#### 1.09 PARKING, STORAGE AND ACCESS TO WORK AREA

- A. The Contractor shall coordinate with the Construction Manager for access, available parking, storage and access to the work area. The overall objective will be to perform the work with minimal to no disruption to the daily operation of the park. The contractor shall submit a staging and work plan to the Owner within two weeks of project award. No work shall commence on the site until the contractor receives written acceptance of this plan. The Contractor shall protect the stored equipment and material from the elements in such a manner as to be satisfactory to the manufacturer of the equipment or material and the Owner.
- B. Should questions of labor jurisdiction arise, this Proposer will immediately take steps to settle such disputes and will use such labor as may be determined to have jurisdiction, at no additional cost to the Owner. Should it fail to take expeditious action, it will be responsible for any time lost because of delays arising from such disputes.
- C. The Contract includes the cost of all standby trades and Owner Representative fees should Proposer work prior to or later than normal working hours and on Saturdays, Sundays and Holidays, if Proposer desires to work outside of normal working hours. that includes the additional cost for inspections by the engineer. Contractor shall also obtain any required permits to work outside of normal business hours.
- D. As a State Agency, Proposer shall be aware that all BPCA projects require the employment of labor at prevailing wage rates. Outside State and Federal Agencies will closely monitor all projects.
- E. Contractor shall be responsible for providing all equipment required for unloading, installation, clean-up and hauling of debris. Contractor is to be aware that due to the spacing limitations of the surrounding area of work there is to be no staging of equipment on site, unless approved in the Contractor's Staging Plan.
- F. The contractor is responsible for coordination of their work between the Engineer and the Dockmaster. In keeping with the project philosophy of "Zero Impact" on Marina operations, Contractor shall keep the interruption of quay services and access to moored vessels, their crews and passengers to a minimum.

- G. Contractor shall not use the site for staging of construction materials or equipment, unless approved in the Contractor's Staging Plan. The barges shall be subject to the applicable federal, state and local ordinances in addition to the marina regulations.
- H. Proposer shall not store any material or equipment on site unless directed by the Owner/Owner's Representative. The Proposer shall provide storage space for inspection dive equipment and provide access and material support for the inspection crews.
- I. Proposer shall not use the site for staging of installation materials or equipment except as approved by the Owner.

#### 1.10 SUBCONTRACTORS

- A. A list of Subcontractors, pre-qualified by the Contractor, shall be submitted to the Owner by the Contractor with his proposal. The Owner has the ultimate right to accept or reject any one or more of the subcontractors, and must do so in writing after receipt of said list from the Contractor. No deviations shall be allowed from this list without written approval of the Owner. Valid insurance certificates for subcontractors shall be submitted by the Contractor to the Owner with his proposal.
- B. The Owner shall receive, upon completion of this Contract in full from the Contractor, any reduction in the Subcontractor's price, which may result from a reduced scope of the Contractor's work.

#### 1.11 SITE CONDITIONS

- A. At the Contractor's expense, the Contractor's working areas shall be cleaned by him on a day-to-day basis, with all rubbish removed from the site and all work areas cleaned at the end of each day. At final completion of all work, the Contractor shall leave the entire premises, within the site of his operations, clean and free from the rubbish resulting from his construction operations.
- B. Each Proposer is responsible for progress cleaning of its own areas on a daily basis. All Proposers are responsible for consolidating any debris caused by their work. The proposer for General Construction shall be responsible for cleanup of the entire site which includes removal of debris for ALL proposers on site on a daily basis. The proposer for General Construction shall legally dispose consolidated debris off-site. Each Proposer is advised that failure to comply with cleaning requirements will result in back charges and /or reductions in payments.
- C. Contractor shall perform site cleanup and removal of debris on a daily basis and broom clean all installation areas at completion of the day. Surplus equipment, parts & installation materials are to be removed by contractor upon completion of installation unless it is mutually agreed, in writing, from Owner or the Construction Manager that this material can remain on site.
- D. Contractor shall be responsible for ice, snow and frost removal at site during construction in order to accommodate performance of work.
- E. The Proposer shall take special care to provide for temporary damage protection for any and all existing conditions to remain in proximity to the work area. The protection shall remain in place while performing the work shown or described

herein or elsewhere in the Contract Documents. Any damage to existing conditions to remain as a result of work by the Proposer shall be repaired or replaced to the satisfaction of the Owner and at no cost to the Owner.

#### 1.12 COMPENSATION

- A. Compensation shall be as stated in the agreed upon Contract.
- B. Contractor shall provide interim progress sketches, showing the location of the installed repairs, in PDF format and a hard copy with each application for payment. These will be incorporated into the final as-built documentation.
- C. Pay Requisitions for this project shall be submitted according to the Contract guidelines.

#### 1.13 UTILITIES

The Contractor is responsible to provide and maintain any and all utilities he deems necessary to affect the Work. Should existing site utilities be made available for the Contractor's use by the Owner, it is the responsibility of the Proposer to verify the suitability of existing site utilities for their needs. The Contractor may use such provided utilities at his own risk. Damages shall be the sole responsibility of the Contractor and repairs shall be made immediately at no additional cost to the Owner.

#### 1.14 FIRE PROTECTION

The Contractor shall provide and maintain at his expense all required fire protection systems and devices as necessary to safely perform the Work in accord with the applicable regulations. They shall be operational throughout the period of construction. The Contractor shall also maintain sufficient means for fire and emergency rescue vehicles to access the site.

#### 1.15 COMPLIANCE WITH CONTRACT

The Owner shall have the right to withhold without penalty any payment described above, or sections referenced herein, for completed work should the Contractor fail to meet any obligations or requirements of the Contract, cause damage to the existing site, structures or facilities, or violate a condition of the Permits. Any withheld payment shall be promptly made upon the Contractor's full compliance with the Contract, or resolution of impending fines or damage claims.

#### 1.16 ENVIRONMENTAL PROTECTION

The Contractor shall comply with all local, state, and federal requirements for protection of:

- A. The environment during the Work. No later than fifteen (15) days following award of contract and at least ten (10) days prior to mobilization to the site, Contractor shall submit a comprehensive plan describing the means and methods to be employed for protection, containment, and clean up. Contractor shall ensure that personnel are properly trained and that sufficient equipment and materials are readily available for use if required. Contractor shall abide by state and federal spill-reporting requirements. Clean-up required as a result of Contractor negligence shall be the sole responsibility of the Contractor at no additional cost to the Owner.

- B. During execution of the Work, the Contractor is required to install and maintain any and all required sedimentation and erosion control measures to protect adjacent waterways, streets, and properties. Measures include but are not limited to temporary berms, hay bales, silt fences, containment booms, and turbidity curtains. In accordance with the NYSDEC, NYCDEP and local regulations. Temporary materials and equipment shall conform to requirements for Temporary Work.
- C. The work by the Contractor shall conform to the applicable section of the New York City Noise Code regarding the sound level standards and the time and duration of construction activities.

#### 1.17 TEMPORARY WORK

Labor, equipment, materials, and services required to perform the Work that, upon completion, are not a part of the Work, shall be furnished, installed, and subsequently removed from the site by the Contractor.

#### 1.18 SAFETY PLAN

No later than ten (10) days following award of Contract and at least ten (10) days prior to mobilization to the site, Contractor shall submit two (2) copies of his project-specific Safety Plan to the Owner.

#### 1.19 MATERIAL SAFETY DATA SHEETS

No later than ten (10) days following award of contract and at least ten (10) days prior to mobilization to the site, Contractor shall submit two (2) three-ring bound sets of all Material Safety Data Sheets (MSDS) for materials anticipated for use in execution of the Work. As the Work progresses and new materials are used on the project, Contractor shall submit two (2) copies of the corresponding MSDS's for these new materials no later than the time of arrival of the materials on site. ALL MSDS sheets regarding materials used in the execution of the Work shall be up-to-date and stored in the Contractor's onsite job trailer or office.

#### 1.20 WORK SCHEDULE REQUIREMENTS

Access to the site and acceptable working hours are limited and shall be coordinated with the Owner and Construction manager. Owner shall be notified of any work request outside of these hours a minimum of two weeks prior to the date work will take place. Work shall be in compliance with local noise restriction ordinances. It is understood that Work hours may need adjustment in order to accommodate tidal cycles at the North Cove; which will remain in operation during the course of construction.

#### 1.21 ENGINEERING SERVICES CHARGEABLE TO THE CONTRACTOR

The Owner reserves the right to charge the Contractor for additional engineering and inspection services if required including, but not limited to, Contractor's actions or inactions, delays, quality assurance failures, re-work, etc.

#### 1.22 CONTRACTOR'S REPRESENTATIVE

The Contractor shall assign an individual to be the single point of contact for all job-related correspondence and issues. This individual shall be assigned to the project from



start to finish, and shall not be replaced without permission from the Owner whose permission should not be unreasonably withheld. This individual shall be responsible to disseminate information to other members of the Contractor's staff and to applicable subcontractors as necessary. This individual shall be the Contractor's designated representative at the site, and shall be authorized to conclude all matters, financial and otherwise, on the Contractor's behalf. The Contractor's Representative shall attend all project meetings and shall be on site at all times while the Contractor or his Subcontractors are present on site.

#### 1.23 MEANS AND METHODS

The structures have been designed to be self-supporting and stable after construction is complete. The stability of the structures prior to completion is solely the responsibility of the Contractor. This responsibility extends to related aspects of the construction activity including, but not limited to, erection methods, erection sequence, connections, temporary bracing, forms, shoring, use of equipment, and similar construction procedures. Review of construction by the Engineer of Record is for general conformance with the Contract Documents only. Lack of comment by the Owner and Owner's Representative with regard to construction procedures shall not be interpreted as approval or acceptance of any such procedures.

#### 1.24 PRECEDENCE

It is expressly understood and agreed that failure by the Owner or Owner's Representative to exercise his authority or prerogative to order the Contractor for any duly authorized purpose shall not be considered to set a precedent for any other activities.

#### 1.25 SAFETY OF PERSONS AND PROPERTY

The Contractor is solely responsible for the safety of his operations. The Contractor shall take precautions for the safety of, and shall provide protection to prevent damage, injury or loss to:

- A. Persons employed by the Contractor in performance of the Work, and persons nearby that may be affected by the Contractor's operations or the Work;
- B. The Work, including all equipment and materials which will be incorporated in the Work;
- C. Other properties and structures at the site, or on adjacent properties.

#### 1.26 UNCOVERING WORK

The Contractor shall notify the Construction Manager prior to covering any Work. The Contractor shall not proceed to cover the Work until formal approval from the Construction Manager is provided in writing. If any Work is covered prior to acceptance by the Owner or Construction Manager, the Work shall, if requested by the Owner, be uncovered for the Owner's observation and then be re-covered at the Contractor's sole cost and expense.

#### 1.27 DAILY CONSTRUCTION REPORTS

For each day that Work is performed at the site, the Contractor shall prepare and submit a Daily Construction Report to the Construction Manager. Contractor shall include the following information in the report, as a minimum:

- A. Project name
- B. Contractor name
- C. Date
- D. Hours worked
- E. Weather conditions
- F. Subcontractors working on site
- G. Material deliveries (material, quantity, and vendor)
- H. Trades working on site (trade and number of workers per trade)
- I. Equipment on site (manufacturer and model number, with notation of whether the equipment was idle or was used in the Work)
- J. Specific work performed, location and type of work
- K. Visitors to the site
- L. Materials or equipment leaving the site (including debris removal)
- M. Incident descriptions
- N. Weekly tidal predictions
- O. Contractor shall submit reports no later than 12:00 hours for the previous day's work.

#### 1.28 MONITORING OF EXISTING STRUCTURES DURING CONSTRUCTION

The Owner reserves the right to establish an independent monitoring program in order to evaluate the effect of the Work on the existing structures to remain on site. Such monitoring may include, but is not necessarily limited to, settlement gauges, tilt plates, and crack gauges.

The Owner reserves the right to suspend the Contractor's operations at any time based upon the monitoring data.

#### 1.29 EXCAVATED MATERIAL

Contractor shall leave excavated material a safe distance from the base of the pile where the excavation was performed. Upon completion of the repair, Contractor shall backfill the excavation with the excavated material.

#### 1.30 **ENGINEERING REVIEW AND SPECIAL INSPECTION**

At key stages throughout the Work, engineering inspections are required to ensure the Work is being performed in accordance with the Contract Documents. These inspections will be performed by a Special Inspector, as selected by the Construction Manager at the discretion of the Owner. The final acceptance of the Work will be performed by the Engineer of Record. Each pile repair location must be inspected by the special inspector prior to the formwork being placed on the pile. If a pile is encapsulated without this inspection, Owner may request that the installed work be removed and reinstalled at no

additional cost to the Owner. Additional pre and post inspection criteria may be required at the discretion of the Special Inspector, Engineer of Record or Construction Manager.

### 1.31 EQUIPMENT

Proposers shall use ultra-low sulfur diesel fuel or compressed natural gas (CNG) for all construction vehicles with a carrying capacity in excess of 5 tons and for all portable generators, consistent with Local Law 77 for Lower Manhattan. All diesel engines of greater than 50 horsepower must use ultra-low sulfur diesel fuel with a sulfur content no greater than 15 ppm. Equip the above vehicles with high performance engines and diesel oxidation catalyst (DOC) filters or another previously demonstrated advanced retrofit technology, consistent with NYC Local Law 77 for Lower Manhattan. On-road vehicles used in construction may not idle for more than five consecutive minutes except under practical considerations such as during vehicle maintenance, while stopped in traffic, and in cold weather conditions below 25 degrees F.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 EXAMINATION OF DOCUMENTS AND SITE OF WORK

The Proposer acknowledges the following:

- A. The Proposer has reviewed and examined the Proposal Documents to the degree which he is satisfied that the Proposal submitted includes the cost to perform the Work as set forth in the proposed Contract Documents.
- B. The Proposer has informed himself of the existing conditions and limitations under which the Work is to be performed and that the Proposal submitted includes the cost to account for these existing conditions and limitations.
- C. The Proposer acknowledges that the substructure and subsurface condition information provided with the Proposal Documents is for information only.
- D. The Proposer is permitted to perform his own investigation solely for purposes of development of a Proposal. Any site investigation that the Proposer performs, including subsurface, hydrographic, above or below water, or any other non-destructive or destructive testing, shall be documented by the Proposer at the time of the investigation. Results of any investigation performed by the Proposer, which is not representative in the Proposal Documents, and which impact the Proposal, shall be submitted with the Proposal. This information shall be kept confidential during the Contractor selection process.
- E. Proposers are permitted to perform investigations at the site by appointment prior to submitting a proposal. Appointment requests shall be in writing and shall be made through the Owner's Representative at least seventy-two hours prior to the intended time of visit. The Proposer shall provide all required insurance and forms to the Owner's Representative and receive authorization prior to performing any investigation.

### 1.02 PROOF OF COMPETENCY OF PROPOSER

A proposer may be required to furnish evidence satisfactory to the Owner that he and his proposed subcontractors have sufficient means and experience in the types of work called for to assure completion of the Contract in a satisfactory manner. Such evidence includes representative project information, similar to the scope and magnitude of this project, consisting of references, contract value, and other pertinent information.

### 1.03 EXECUTION OF AGREEMENT

- A. Certificates of Insurance shall be approved by the Owner before the successful Proposer may proceed with the Work. Failure or refusal to provide Certificates of Insurance in a form satisfactory to the Owner shall subject the successful Proposer to loss of time from the allowable construction period equal to the time of delay in furnishing the required material.
- B. Certificates of Insurance shall name, at a minimum, the Owner, Owner's Representative and Consulting Engineer as additional insured parties.

### 1.04 INTERPRETATION OF CONTRACT DOCUMENTS PRIOR TO PROPOSING

- A. If any person contemplating submitting a Proposal for construction of the Work is in doubt as to the true meaning of any part of the proposed Contract Documents, or finds discrepancies in or omissions from any part of the proposed Contract

Documents, he must submit to the Owner's Representative, with copy to the Owner, a written request for interpretation thereof by not later than seven (7) days prior to the Proposal due date. The person submitting the request shall be responsible for its prompt delivery.

- B. Interpretation or correction of Contract Documents will be made only by Addendum and will be mailed or delivered to each Proposer of Record. The Owner and Owner's Representative will not be responsible for any other explanations or interpretations of the Contract Documents.

#### 1.05 PRE-PROPOSAL CONFERENCE AND JOB SITE WALKTHROUGH

A Pre-Proposal Conference will be held at the site for the purpose of considering questions posed by Proposers and for the purpose of holding a walkthrough of the project site.

Proposers are expected to provide written confirmation of attendance to the Owner's Representative at least two (2) days prior to the Pre-Proposal Conference.

Clarifications, corrections, and changes, made as a result of the Pre-Proposal Conference, shall be made by Addendum only. The Proposer shall not construe statements made during the Pre-Proposal Conference, by the Owner, the Owner's Representative (Engineer), as a change of terms or conditions of the Proposal Documents.

#### 1.06 CONSTRUCTION TIME

The Contractor shall commence and perform the Work expeditiously in accordance with the Contractor's construction schedule with adequate, trained forces and shall achieve substantial completion and final completion within the times stated within the schedule.

Within the Form of Proposal, provide the total number of days which the Proposer proposes to complete the Work. The schedule is to commence with issuance of the Owner's Executed Contract and be 100 percent completed, including all final inspections, by **October 31, 2019.**

#### 1.07 BASE BID

Base Bid provided shall be complete, including all mark-up, and shall include all appropriate overheads, profit, and cost of labor, materials, equipment, required permits to perform the Work and costs associated with services necessary to complete the substructure rehabilitation work in accordance with the Contract Documents. This bid shall be a lump sum bid. Additional unit cost rates for any additional work that may be required may be requested in the bid sheets. These rates will be used for any additional work required.

- 1.08 The lump sum price for the **Mobilization/Demobilization** shall consist of obtaining all required permits; preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; preparation of a construction schedule; furnishing and erecting field offices, laboratory, batch plants, and other facilities necessary for work on the project; badging and training of flaggers, escorts, gate guards and other employees as specified herein; and all other work which must be performed or cost incurred prior to beginning work on the various contract items at the project site. Mobilization shall include the following principal items:

- 1. Permits for this project, including DSBS, After Hours Permits, and BPCPC Access Permits.

2. The schedule of costs breakdown of the Bid.
  3. The Contractor's approved Baseline Construction Schedule.
  4. Contractor's Operation and Storage Yard (Staging Area), including the complete installation of all field offices with utilities, fencing and gates, and supplies.
  5. Installation of floating plants and pump stations, with all appurtenances necessary for fully functional facilities of adequate combined capacity to meet project production needs.
  6. Moving onto the Site all equipment and materials required for the first thirty (30) days of construction.
  7. Submittals of Shop and Coordination Drawings and Job Mixes for the first thirty (30) days of construction.
  8. Posting all required OSHA notices and establishing on-site safety programs.
  9. Demobilization shall include removal of construction facilities, including all utilities, and equipment off the Site and final cleanup of the Site after completion of the Project.
- B. The lump sum price for **General Conditions** shall consist of the following principal items:
1. Project management and project supervision including the following:
    - a. Superintendent(s)
    - b. Safety Manager
    - c. CPM Scheduler
    - d. Quality Assurance / Quality Control
    - e. Project Manager(s)
    - f. Project Executive
    - g. Field Office Engineer
    - h. Field Office Support Staff
    - i. Project Expeditor
    - j. Assistant Superintendent(s)
  2. Insurance
  3. Profit
  4. Front Office Overhead
  5. Safety and Environmental Controls/Protection Site Conditions:
    - a. Temporary Power Consumption (Offices)
    - b. Temporary Power Consumption (General Site Use)
    - c. Temporary Water and Sewer Consumption
    - d. Temporary Water Hookup, Distribution & Meters
    - e. Temporary Electrical Hookup, Distribution & Meters

- f. Temporary Fire Protection
  - g. Temporary Heating & Cooling
  - h. Temporary Fencing
  - i. SWPPP Measures
  - j. Temporary Entries and Truck Washes
  - k. Street Cleaning (by G.C.)
  - l. Traffic Control Measures
  - m. Traffic Control Maintenance
  - n. Temporary Barricades & Signage
  - o. Temporary Lighting
  - p. Temporary Partitions & Covered Floor Openings
  - q. Temporary Toilets/Sanitary Measures
  - r. Temporary Laydown (prep and restoration)
  - s. Security System/Watchman (contractor's option)
  - t. Pre-construction Photo Documentation
  - u. Progress Photos
  - v. Temporary Protection (in-place work/adjacent structures)
- C. The Lump Sum price for the **Performance and Payment Bonds** shall consist of obtaining all required bonds including execution and acceptance by the Owner.
- D. The Lump Sum Price for the **Protective Pile Encasements** shall include costs associated with all details provided in the Contract Drawings for this repair. The cost shall include, but is not limited to:
- 1. Removal of all debris on or attached to the pile, removing any floating dock chains, cleaning the piles to remove marine growth/fouling, sediment buildup, loose concrete over the full excavated height of the exposed pile, and anything else that will interfere with the installation of an FRP form. Remove all loose and deteriorated concrete located within the extents of the repair.
    - a. Excavation and backfilling of the soft bottom repair locations (repair type A).
    - b. Removal of all debris on or around the pile at the mudline, including anything connected to the pile at the mudline. Chains for the floating docks shall be relocated to an adjacent pile.

Excavation of the mudline, sand or other soft materials to the deeper of: Two (2) feet below the current mudline, or, to a point at which stone exceeding 6 inches in diameter is encountered or, a large obstruction prevents further excavation in a specific area.
    - c. Items (a) and (b) are to be verified via inspection by the Owner's Representative.
  - 2. Stability of the excavation for diver safety.
  - 3. Retaining materials for backfill after the pile protective encasement is finished



4. Backfill the pile completely to ensure that there is 2 ft of the pile embedded in the mudline. Use the existing materials removed and retained for the backfill.
  5. Design and Installation of FRP stay-in-place formwork over the full height of the 4-sided repair including all standoffs, bottom seals, T&G form seals, pump ports, and other appurtenances/requirements in the Contract Documents
  6. Filling forms by pumping of an approved underwater epoxy mortar or cementitious grout, per the Contract Drawings and these Specifications, to the top of the forms as required. The top shall be hand packed with an approved product. The forms shall have a plug installed at the bottom and allowed to cure before the remainder of the pile is filled.
  7. Cleaning and prepping of the top sections of any installed pile plugs.
  8. Removal of all temporary items including but not limited to all ratchet straps, strongbacks, banding, exterior ports etc... The FRP forms shall remain in place.
- E. The **Repair Type E Alternate, Placement of Grout Bags on hard bottom** shall be bid using a unit price will be based on a unit cost per grout bag placement. The unit price shall include costs associated with all details provided in the Contract Drawings for when Repair Type E Alternate is utilized. This repair type shall only be used when the installed formwork will not sit flush with the hard bottom and sections of the concrete pile are exposed. This repair type requires written permission from the Owner's Representative at each location it is proposed for.
1. Backfilling to the greatest extent possible, using the natural and existing materials around the pile without compromising the embedment of the adjacent pile repairs.
  2. Stacking grout bags around the base of the pile over the backfill so that the entire pile has an embedment of at least 2.5 ft in materials. The bags shall be placed such that a minimum of voids are present.
  3. Pumping of epoxy mortar into the voids between the grout bags and the pile.

#### 1.09 SPECIAL CONDITIONS

The Proposer acknowledges and shall include the cost for the following in the Proposal:

- A. Some piles may have existing items/debris and chains that shall be removed completely prior to performing the work associated with each repair. The chains are for the floating docks and are to be relocated to an adjacent pile while performing work, and then moved back to complete repairs on the adjacent pile. If the chains cannot be removed without cutting, notify the Owner's representative immediately.
- B. Provide means to maintain and collect debris, including boom around work area and boat on premises capable of retrieving floatable debris that leaves the immediate work area. The Contractor shall also readily provide the following for the Owner's Representative throughout the duration of the project:
  1. Means, via work float or skiff, to access areas for review during site visits.
  2. Safe means, such as a ladder or gangway, to access floating work platform from the wharf.
  3. A changing station, storage area with heating and cooling for the Owner's divers.

## 1.10 ENGINEERING REVIEW AND SPECIAL INSPECTION

At key stages on each pile, engineering inspections are required to ensure the Work is being performed in accordance with the Contract Documents. These inspections will be performed by a Special Inspector, as selected by the Construction Manager at the discretion of the Owner. The final acceptance of the Work will be performed by the Engineer of Record. The key stages of these required inspections are outlined below. The items listed may not be all inclusive. Additional pre and post inspection criteria may be required at the discretion of the Special Inspector, Engineer of Record or Construction Manager.

Each Pile shall be inspected at the following points:

- A. After cleaning (hard bottom locations) after cleaning and bottom excavation (soft bottoms)
- B. After top of pile plug has been cleaned and prepped to receive the top section pile repair.
- C. After finished product is fully installed
  - 1. Pile plugs (all pile plugs shall be inspected prior to the installation of the upper section repair.
  - 2. Upper sections of pile repair

During all epoxy grout mixing, injection and pump events, the Special Inspector shall be onsite to ensure quality control of the materials and adherence to the Contract Documents. In addition, on the first pump event of epoxy grout, the Engineer of Record as well as the material manufacturer's representative must be onsite in addition to the Special Inspector. Contractor is responsible for notifying the Special inspector in writing one week prior to any pumping operations.

The Contractor shall coordinate with the Construction Manager to maximize inspection sequencing and timing against the production of the divers. At a minimum, and subject to the Construction Manager's procedures, the contractor shall provide the construction manager with daily reports of the piles ready for inspections, in groupings, by the pumping location. It is the responsibility of the Contractor to adequately inform the Special inspector when piles are ready to be inspected. Any work completed without approval is at the Contractors risk.

The contractor shall notify the Special Inspector a minimum of one week in advance of the pile locations ready for inspection. This notification shall be in the form of a written list that identifies the pile location and its current stage in the repair process.

Any exceptions noted during the Special Inspectors dive inspection shall be submitted to the Contractor within 16 hours of the inspection. All exceptions and re-work will be submitted to the Construction Manager within 48 hours of the initial inspection, or before the cleaning window expires, whichever is soonest. The Special Inspector must generate field reports for all inspections. The field reports shall be submitted to the Construction Manager and Engineer of Record for review.

## 1.11 GENERAL CONDITIONS

The Contractor shall commence and perform the Work expeditiously in accordance with the Contractor's construction schedule with adequate, trained forces and shall achieve substantial completion and final completion within the times stated within the schedule.

Within the Form of Proposal, provide the total number of days which the Proposer proposes to complete the Work. The schedule is to commence with issuance of the Owner's Purchase Order.

#### 1.12 EXISTING WORK

- A. Remove or alter existing work in such a manner as to prevent injury or damage to any portions of the existing work that remains.
- B. Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as approved by the Owner. At the completion of operations, existing work shall be in a condition equal to or better than that which existed before new work started.

#### 1.13 LOCATION OF UNDERGROUND FACILITIES

- A. Coordinate with the Owner on the location of underground utilities and which utilities are to remain and be protected, and which are to be removed.
- B. Notify the Owner at least 24 hours prior to starting excavation work.

#### 1.14 QUALITY ASSURANCE

- A. Use adequate number of skilled work personnel who are thoroughly trained and experienced in the necessary trades, and familiar with the specified requirements and methods required for proper performance of the work outlined in this specification.
- B. The Contractor shall coordinate the work to insure no conflicts occur to compromise the timely completion of all work specified.

#### 1.15 WORKING CONDITIONS

- A. The Contractor is responsible for any precautions and scheduling necessary in order to maintain this status. Work may begin only after a schedule representing an acceptable plan is approved by the Owner.
- B. The Contractor shall coordinate day-to-day activities with the Owner. All conflicts will be resolved by the Owner's representative.
- C. The Owner shall be notified a minimum of three days prior, when any floats are required to be moved within the North Cove.

#### 1.16 WORKING HOURS

The Contractor is permitted to perform construction work between the hours of 7:00 AM and 4:30 PM Mondays through Fridays, excluding Saturdays, Sundays, and Federal Holidays. Work performed at any other time other than these periods will only be allowed pending approval of the Owner, following a 48 hour advanced request (72 hour for Sundays and Holidays) and a DSBS after hours work permit.

#### 1.17 AVAILABILITY OF UTILITIES

- A. Electrical: The Contractor shall provide its own electrical power and equipment. OSHA requirements will govern the use of such utility.
- B. Water: The Contractor will be responsible for supplying its own water and equipment, including all hoses, adapters and backflow preventer as required.

- C. Sanitary Facilities: The Contractor shall be responsible for furnishing and maintaining temporary toilet facilities for their employees, and for the Owner's Engineer/Diver's.
- D. The Contractor is responsible for the cost of all utilities.

#### 1.18 EQUIPMENT

The Contractor shall supply all equipment necessary to perform all work, including but not limited to cleaning materials, ladders, etc.

#### 1.19 RECEIPT OF MATERIALS

Shipments of equipment, materials, and supplies shall be addressed to the Contractor, not the Owner. The Contractor shall provide all equipment, materials and labor for off-loading. The Owner will not accept shipments for the Contractor.

#### 1.20 STORAGE OF MATERIALS

Contractor's materials may be stored on site at a location that is approved by the Owner.

#### 1.21 EXISTING MATERIALS

The Owner shall have the opportunity to salvage all materials removed prior to disposal by Contractor.

#### 1.22 SITE OFFICE FACILITIES AND STORAGE SHED

- A. The Contractor shall be required to provide at his own cost and expense one enclosure in the North Cove and one in the South Cove. Install and connect all utility services to said enclosure within five (5) days of start of work.
- B. The enclosure shall be for the express use of the Resident Engineer.
- C. Temporary Electrical Services:
  - 1. Electrical work required for the enclosure will be furnished and maintained under this contract.
  - 2. The Contractor shall furnish, install and maintain a temporary electric feeder to the Resident Engineer's enclosure immediately upon its placement at the job site.
  - 3. The temporary electric feeder shall be at least 3 No. 6 THW wire and shall be protected by a 60 ampere fused safety switch, complying with codes and utility requirements having jurisdiction.
  - 4. Make all arrangements and pay all costs to provide electric service.
  - 5. Pay all costs for current consumed and for maintaining system in operating condition, including furnishing of necessary bulb replacements, lamps, etc., for thirty (30) days after date of substantial completion acceptance.
  - 6. Disposition of electric work: Upon expiration date in sub-paragraph c, the temporary feeder, safety switch, etc., shall be removed and disposed of as directed.
  - 7. All repair work due to these removals shall be the responsibility of the Contractor.
- D. Maintenance:

1. The Contractor shall provide and pay all costs for heat and fuel, and regular daily janitor service. Furnish toilet paper, cloth towels, soap, and maintain the field office in first-class condition, including all repairs, until 30 days after the date of substantial completion acceptance.
  2. Upon final acceptance of all work under the contract, unless sooner directed, the Contractor shall have all services disconnected and capped to the satisfaction of the Resident Engineer.
- E. Permits  
The Contractor shall make the necessary arrangements for, and obtain all permits required for this work.
- F. The Contractor shall provide his own storage. No equipment or materials storage will be provided by the Owner.

#### 1.23 POWER OUTAGE

Needed power outages shall be arranged only with prior approval from the Owner, with duration and affected areas held to a minimum.

#### 1.24 FINAL INSPECTION

Final Inspection will not be made until all work under the contract is complete. The Contractor shall notify the Owner in writing a minimum of one week prior to the date on which the project will be ready for final inspection.

#### 1.25 MATERIAL DISPOSAL

- A. All discarded material shall be removed from the Owner's property and disposed of in an approved site complying with Local, State, and Federal regulations. Certified weight tickets shall be supplied to the Owner within 15 days of the date of the weight ticket for all trash and construction debris disposed. All dumpsters/containers shall be supplied by the Contractor. The contractor shall provide appropriate signs or covers to prevent use by Tenants.
- B. No material shall be washed or swept out of equipment or vehicles (including concrete from chutes of trucks, loose debris, etc.) onto Owner property or in the water. Any material spilled from Contractor furnished dumpsters/containers shall be immediately cleaned up by the Contractor.

#### 1.26 RECYCLABLES

The Contractor shall recycle or reuse all material designated as recyclable or prohibited from landfilling. Definitions for recyclables and landfill prohibited material can be obtained from the contracted trash hauler. Certified weight tickets shall be supplied to the Owner within 15 days of the date of removal from the facility for all material recycled or reused, and for landfill prohibited materials.

#### 1.27 AS-BUILT DRAWINGS

- A. The Owner will furnish one complete set of black and white prints of all drawings which shall be used to indicate any changes from the contract set. Each sheet shall be marked "AS-BUILT DRAWINGS" in red pencil, and all changes or modifications shall be noted thereon by the Contractor.
- B. Changes shall be noted during the construction process for all trades.

- C. Keep "AS-BUILT DRAWINGS" current. Do not permanently conceal any work until the required information has been accurately recorded.
  - D. Use colored pencils or pens for graphic work conforming to the following color code:
    - Red - Architectural and Structural Work
    - Green - Electrical WorkUse blue pen for written work
- Submit a complete set of "AS-BUILT DRAWINGS" to the Owner when all work has been completed, or as directed.

1.28 PART II - PRODUCTS

Not used.

1.29 PART III - EXECUTION

Not used.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to this section.

### 1.02 USE OF PREMISES

- A. Use of Site: Limit use of premises to work in areas indicated. Do not disturb portions of site beyond areas in which the Limit of Work is indicated.
  - 1. Limit of Work: Confine construction operations to those areas delineated as included in the Construction Documents.
  - 2. Owner Occupancy: Allow for Owner occupancy of portions of the site and for use by the public at any and all times during the life of the contract. The Owner reserves the right to maintain and provide full public access to completed portions of the Battery Park City Esplanade within the contract limits at any time during the entire life of the contract. Contractor will be responsible for securing and maintaining temporary construction fencing as necessary to achieve and maintain this access.
  - 3. Contractor shall, throughout the life of the contract, maintain clear access to all areas of the Esplanade to personnel of Battery Park City Authority (Owner) for maintenance and repair operations. Specifically, the Owner and/or its agents shall be unencumbered from performing all required watering, planting, and maintenance operations for all areas adjacent to and within the contract limits.
  - 4. Construction Gates / Entrances: Keep all construction gates / entrances serving the premises clean, clear and available to the Owner, Owner's employees, emergency vehicles at all times. Do not use these areas for parking or storage of materials.
    - a. Schedule deliveries to minimize use of construction gates and entrances.
    - b. Schedule deliveries to coordinate with other contractor's gaining access to the site.
    - c. Provide flag-person services for all deliveries into and out of the site so as to protect the public.
    - d. Secure all construction entrances and gates to the site at all times.
    - e. Provide durable signage limiting public access to the construction site at all construction gate / entrances as directed by the Construction Manager.
    - f. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
  - 5. Use of Existing Site: Maintain existing site throughout the construction period. Repair damage caused by construction operations.

1.03 OCCUPANCY REQUIREMENTS

- A. Partial Owner Occupancy: Owner may occupy portions of the site during the construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations.

PART 2.0 - PRODUCTS

Not used.

PART 3.0 - EXECUTION

Not used.

END OF SECTION



## PART 1.0 - GENERAL

### 1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to this section.

### 1.02 SUMMARY

- A. This Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
  - 1. General project coordination procedures.
  - 2. Conservation.
  - 3. Coordination Drawings.
  - 4. Administrative and supervisory personnel.
  - 5. Project meetings.
- B. Each contractor shall participate in coordination requirements. Certain areas of responsibility will be assigned to a specific contractor.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
  - 1. Division 1 – Section “Construction Progress Documentation” for preparing and submitting the Contractor’s Construction Schedule.
  - 2. Division 1 – Section “Execution Requirements” for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
  - 3. Division 1 – Section “Closeout Procedures” for coordinating Contract closeout.

### 1.03 COORDINATION

- A. Coordination: Each contractor shall coordinate its construction operations with those of other contractors and entities to ensure efficient and orderly installation of each part of the Work. Each contractor shall coordinate its operations with operations, included in different Sections that depend on each other for proper installation, connection, and operation.
  - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
  - 2. Coordinate installation of different components with other contractors to ensure maximum accessibility for required maintenance, service, and repair.
  - 3. Make adequate provisions to accommodate items scheduled for later installation.
  - 4. Provide detailed written construction work plans within 5 days of award in a format and containing information as requested by the Construction Manager.

- B. Where necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
  - 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
  - 1. Preparation of Contractor's Construction Schedule.
  - 2. Preparation of the Schedule of Values for payment to completed work.
  - 3. Installation and removal of temporary facilities and controls.
  - 4. Delivery and processing of submittals.
  - 5. Progress meetings.
  - 6. Pre-installation conferences.
  - 7. Project closeout activities.
- D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials.
  - 1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work.

#### 1.04 SUBMITTALS

- A. Coordination Drawings / Work Plans: Prepare Coordination Drawings and/or detailed work plans where careful coordination is needed for installation of products and materials fabricated by separate entities and/or as requested by the Construction Manager. Prepare coordination drawings and/or work plans where limited space availability necessitates utilization of space for efficient installation of different components.
  - 1. Indicate relationship of components shown on separate Shop Drawings and/or work plans.
  - 2. Indicate required installation sequences.
- B. Staff Names: Within 5 days of award, submit a list of principal staff assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home cell and office telephone numbers. Provide names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to Project. Post copies of list in Project meeting room, in temporary field office, and by each temporary telephone.

#### 1.05 ADMINISTRATIVE AND SUPERVISORY PERSONNEL

- A. General: In addition to Project superintendent, provide other administrative and supervisory personnel as required for proper performance of the Work.

1. Project Manager: Submit resume confirming a minimum of 15 years of underwater construction experience.
2. Project superintendent: Submit resume confirming a minimum of 10 years of underwater construction experience.
3. Office Engineer: Submit resume confirming a minimum of 5 years of marine construction experience.
4. Dive Superintendent: Submit resume confirming a minimum of 10 years of underwater construction experience.
5. Include special personnel required for coordination of operations with other contractors.
6. Site Safety Representative: Submit resume confirming a minimum of 5 years of underwater construction site safety experience.

#### 1.06 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site, unless otherwise indicated.
  1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner, and Construction Manager of scheduled meeting dates and times.
  2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
  3. Minutes: Record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner, Construction Manager, and the Engineer, within 5 days of the meeting.
- B. Pre-construction Conference: Schedule a pre-construction conference before starting construction, at a time convenient to Owner, Construction Manager and the Engineer, but no later than 5 days after execution of the Agreement. Hold the conference at Project site or another convenient location. Conduct the meeting to review responsibilities and personnel assignments.
  1. Attendees: Authorized representatives of Owner, Construction Manager, Engineer, and their consultants; Contractor and its superintendents; major subcontractors; manufacturers; suppliers; and other concerned parties shall attend the conference. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
  2. Agenda: Discuss items of significance that could affect progress, including the following:
    - a. Tentative construction schedule.
    - b. Phasing.
    - c. Critical work sequencing.
    - d. Designation of responsible personnel.
    - e. Procedures for processing field decisions and Change Orders.

- f. Procedures for processing Applications for Payment.
    - g. Distribution of the Contract Documents.
    - h. Submittal procedures.
    - i. Preparation of Record Documents.
    - j. Use of the premises.
    - k. Responsibility for temporary facilities and controls.
    - l. Parking availability.
    - m. Office, work, and storage areas.
    - n. Equipment deliveries and priorities.
    - o. Testing and inspection requirements.
    - p. Required performance results.
    - q. Protection of construction personnel.
    - r. First aid.
    - s. Security.
    - t. Progress cleaning.
    - u. Working hours.
    - v. MBE/WBE compliance reporting requirements.
  - 3. Record significant conference discussions, agreements, and disagreements.
  - 4. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.
- C. Progress Meetings: Conduct progress meetings at biweekly intervals. Coordinate dates of meetings with preparation of payment requests.
- 1. Attendees: In addition to representatives of Owner, Construction Manager, and Engineer, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
  - 2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
    - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's Construction Schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule

revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.

- b. Review present and future needs of each entity present, including the following:
  - (i) Interface requirements.
  - (ii) Sequence of operations.
  - (iii) Status of submittals.
  - (iv) Deliveries.
  - (v) Off-site fabrication.
  - (vi) Access.
  - (vii) Site utilization.
  - (viii) Temporary facilities and controls.
  - (ix) Work hours.
  - (x) Hazards and risks.
  - (xi) Progress cleaning.
  - (xii) Quality and work standards.
  - (xiii) Change Orders.
  - (xiv) Documentation of information for payment requests.
- 3. Reporting: Distribute minutes of the meeting to each party present and to parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report.
  - a. Schedule Updating: Revise Contractor's Construction Schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.
- D. Coordination Meetings: Conduct Project coordination meetings as needed. Project coordination meetings are in addition to specific meetings held for other purposes, such as progress meetings and pre-installation conferences.
  - 1. Attendees: In addition to representatives of Owner, Construction Manager, and Engineer, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
  - 2. Agenda: Review and correct or approve minutes of previous coordination meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
    - a. Combined Contractor's Construction Schedule: Review progress since the last coordination meeting. Determine whether each contract is on time, ahead of schedule, or behind schedule, in relation to Combined Contractor's Construction Schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract time.

- b. Schedule Updating: Revise Combined Contractor's Construction Schedule after each coordination meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with report for each meeting.
  - c. Review present and future needs of each contractor present, including the following:
    - (i) Interface requirements.
    - (ii) Sequence of operations.
    - (iii) Status of submittals.
    - (iv) Deliveries.
    - (v) Off-site fabrication.
    - (vi) Access.
    - (vii) Site utilization.
    - (viii) Temporary facilities and controls.
    - (ix) Work hours.
    - (x) Hazards and risks.
    - (xi) Progress cleaning.
    - (xii) Quality and work standards.
    - (xiii) Change Orders.
3. Reporting: Record meeting results and distribute copies within two (2) days to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

PART 2.0 - PRODUCTS  
Not used.

PART 3.0 - EXECUTION  
Not used.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 SUBMITTALS

Submit the following in accordance with Section entitled "Submittal Procedures."

- A. Schedules
  - 1. Construction schedule (Owner)
  - 2. Material delivery schedule (Owner)

### 1.02 CONSTRUCTION SCHEDULE

Within 5 days after receipt of the Notice of Award, prepare and submit to the Owner's representative for approval a Critical Path Method (CPM) Schedule.

### 1.03 MATERIAL DELIVERY SCHEDULE

- A. Initial Schedule

Within 10 calendar days after approval of the proposed construction schedule, submit for Owner's representative approval a schedule showing procurement plans for materials and equipment. Submit in the format and content as prescribed by the Owner's representative, and include as a minimum the following information:

  - 1. Description.
  - 2. Date of the purchase order.
  - 3. Promised shipping date.
  - 4. Name of the manufacturer or supplier.
  - 5. Date delivery is expected.
  - 6. Date the material or equipment is required, according to the current construction schedule.

### 1.04 NETWORK ANALYSIS SYSTEM (NAS)

- A. As an alternative to the critical path method (CPM) schedule, the Contractor may use, subject to the approval of the Owner's Representative, some other computer generated network analysis system affording similar and equal information and control to that provided by the CPM.
- B. The schedule shall have a minimum of 25 activities and a maximum of 200 activities. The schedule shall identify as a minimum:
  - 1. Construction time for all major systems and components;
  - 2. Manpower requirements for each activity;
  - 3. Major submittals and submittal processing time; and
  - 4. Major material and equipment lead time.
  - 5. Bent sequence for inspection purposes.
- C. CPM Submittals and Procedures

Submit all network analysis and updates electronically via e-mail. The network analysis system shall be submitted in Microsoft Project 2010. The network analysis system shall be kept current, with changes made to reflect the actual progress and status of the construction.

#### 1.05 UPDATED SCHEDULES

Update the construction schedule and material delivery schedule at bi-weekly intervals to correspond to payment applications or when schedule has been revised. Reflect any changes occurring since the last update. Submit copies of the purchase orders and confirmation of the delivery dates as directed by the Owner's representative.

#### PART 2.0 - PRODUCTS

Not used.

#### PART 3.0 - EXECUTION

Not used.

END OF SECTION



## PART 1.0 - GENERAL

### 1.01 DEFINITIONS

- A. Submittal: Submittals requirements are specified in the respective specification sections.
- B. Types of Submittals (SD)
  - 1. SD-01 Preconstruction Submittals
    - a. Certificates of Insurance,
    - b. List of Proposed Subcontractors,
    - c. List of Proposed Products,
    - d. Construction Progress Schedule,
    - e. Submittal Register,
    - f. Schedule of Prices,
    - g. Health and Safety Plan,
    - h. Work Plan,
    - i. Quality Control Plan,
    - j. Environmental Protection Plan,
    - k. Site Utilization Plan.
  - 2. SD-02 Shop Drawings
    - a. Shop drawings of each pile repair type are required.
    - b. Shop drawings shall not be copies of the design drawings with notation.
    - c. Drawings, diagrams and schedules specifically prepared to illustrate some portion of the work.
      - (i) Bottom seal
      - (ii) Pump ports
    - d. Diagrams and instructions from a manufacturer or fabricator for use in producing the product and acts as aids to the Contractor for integrating the product or system into the project.
    - e. Drawings prepared by or for the Contractor to show how multiple systems and interdisciplinary work will be coordinated. An attachment shall be provided with the Shop Drawings which clearly define the methodology for each repair type.
    - f. Approval of shop drawings shall not relieve the Contractor of the responsibility for any errors or for furnishing materials of the proper size.
  - 3. SD-03 Product Data.  
Product data includes but is not limited to the following:
    - a. FRP formwork
    - b. Epoxy mortar
    - c. Hand Pack Material

- d. Cementitious grout
  - e. Bottom Seal
  - f. Standoffs
  - g. Engineered Products for Form System
  - h. Grout Bags
  - i. Samples of warranty language when the contract requires extended product warranties.
4. SD-04 Samples
5. SD-05 Design Data
- a. Epoxy Mortar mix
  - b. Cementitious grout mix
  - c. FRP form calculations
  - d. Product pumping calculations
6. SD-06 Test Reports
- a. Report signed by authorized official of testing laboratory that a material, product or system identical to the material, product or system to be provided has been tested in accord with specified requirements. (Testing must have been within three (3) years of date of contract award for the project.)
  - b. Report which includes findings of a test required to be performed by the Contractor on an actual portion of the work or prototype prepared for the project before shipment to job site.
  - c. Report which includes finding of a test made at the job site or on sample taken from the job site, on portion of work during or after installation.
  - d. The New York City Department of Small Business Services (DSBS) Permit shall be satisfied under the direction of the Construction Manager. This includes but is not limited to the concrete testing agency and concrete supplier, TR2 and TR3 filings, and the Contractor's PW2 filing.
7. SD-07 Certificates
- a. Statements signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements. Must be dated after award of project contract and clearly name the project.
    - (i) Epoxy Mortar
    - (ii) Cementitious Grout
    - (iii) FRP form
8. SD-08 Manufacturer's Instructions
- a. Preprinted material describing installation of a product, system or material, including special notices and Material Safety Data sheets concerning impedances, hazards and safety precautions.

9. SD-09 Closeout Submittals

- a. The Construction Manager is responsible for providing the following to the Engineer of Record for review prior to the project close out:
  - (i) Field Reports
    - (i) Upon completion of the work, and prior to the final project closeout, the Construction Manager shall submit to the Engineer of Record all Field Reports from the engineering review site visits. These include, but are not limited to:
    - (ii) Certification by the Special Inspector that all piles have been repaired as per the contract documents.
    - (iii) Certification by the Special Inspector that all test results have meet or exceeded the minimum requirements laid out in the Contract Documents.
    - (iv) Field reports from the Special Inspector confirming that all epoxy mortar and cementitious grout pumping operations and all the material placed were performed in accordance with the Contract Documents.
  - (ii) As-Built Drawings:
    - (i) Contractor shall submit six (6) sets of drawings, marked "As-Built" within four (4) weeks upon Contractor demobilization. These drawings shall be submitted to the Construction Manager, who shall forward to the Engineer of Record. Approval from the Engineer of Record is required for the final project closeout.
  - (iii) Test Reports:
    - (i) Upon completion of the work, and prior to the final project closeout, the Construction Manager shall submit to the Engineer of Record all Test Reports from the required materials and products testing as laid in the Contract Documents. Test reports must confirm that all materials and products placed during the Work have met or exceeded the minimum requirements of the Contract Documents in order for the Engineer of Record's approval. All Test Reports must be approved by the Engineer of Record for the final project closeout.
  - (iv) Photographs
    - (i) The Construction Manager shall submit to the Engineer of Record a typical photograph illustrating each type of repair in its Pre-Inspection and Post-Inspection completeness.
  - (v) The items required for final review by the Engineer of Record are not limited to those listed above.

10. For this project, the requirements under SD-03 and SD-08 shall be combined under one submittal for "Product Data". Product data will be submitted for all repairs identified in the contract drawings. The product data submittal may be combined with a number of submittals which reference one particular repair.

- C. Approving Authority: Person authorized to approve submittal. The Engineer of Record shall review submittals in regard to materials, methodology, shop drawings and other components involved in the quality assurance of the work. The Construction Manager shall review submittals in regard to but not limited to site

utilization, disposal, coordination, environmental controls, schedule, safety and health requirements, etc.

- D. Work: As used in this section, on- and off-site construction required by contract documents, including labor necessary to produce submittals, construction, materials, products, equipment, and systems incorporated or to be incorporated in such construction.

## PART 2.0 - PRODUCTS

Not used

## PART 3.0 - EXECUTION

### 3.01 SUBMITTAL REGISTER

- A. Within 5 calendar days after receipt of Notice to Proceed, Contractor shall provide submittal register listing all submittals required by the contract. Contractor shall maintain at the site, an up-to-date submittal register showing the status of all submittals as the work progresses. The submittal register format is subject to review and approval by the Construction Manager and Engineer of Record. The Contractor shall indicate critical submittals and critical dates for approval. The register shall also include the following at a minimum:
  - 1. Activity Number: Activity number from the project schedule.
  - 2. Transmittal Number: Contractor assigned list of consecutive numbers.
  - 3. Contractor Submittal Date: Scheduled date for approving authority to receive submittals.
  - 4. Contractor Approval Date: Date Contractor needs approval of submittal.
  - 5. Contractor Material Date: Date that Contractor needs material delivered to Contractor control.
- B. The Construction Manager or Engineer of Record will not review submittals until the register has been submitted in accordance with the previous paragraph and approved. Should a submittal register be generated by the Engineer of Record, it can be used as a guideline by the Contractor but does not relieve him of submissions required by the Contract Documents that may have been omitted.
- C. Items may be added or removed from the Submittal Register throughout the duration of the Work, as desired by the Construction Manager or Engineer of Record. Additional submittals that are not listed in the Submittal Register may be required as per the Construction Manager's contract.

### 3.02 PROCEDURES FOR SUBMITTALS

- A. Contractor shall make submittals required by the Contract Documents, and revise and resubmit as necessary to establish compliance with the specified requirements. Submittals that are not required will not be reviewed by the Construction Manager.
  - 1. Constraints
    - a. Submittals listed or specified in this contract shall conform to provisions of this section, unless explicitly stated otherwise.

- b. Submittals shall be complete for each definable feature of work; components of definable feature interrelated as a system shall be submitted at same time.
  - c. When acceptability of a submittal is dependent on conditions, items, or materials included in separate subsequent submittals, submittal will be returned without review.
  - d. Approval of a separate material, product, or component does not imply approval of assembly in which item functions.
2. Scheduling
- a. Coordinate scheduling, sequencing, preparing and processing of submittals with performance of work so that work will not be delayed by submittal processing. Allow for potential requirements to resubmit.
  - b. Except as specified otherwise, allow for review period, beginning with receipt by approving authority, which includes at least 5 working days for submittals. Period of review for each re-submittal is the same as for initial submittal.

### 3.03 VARIATIONS

- A. Variations from contract requirements require the Engineer of Record approval. Do not substitute materials, equipment, or methods unless such substitution has been specifically accepted in writing by the Construction Manager.
- 1. Considering Variations: Discussion with the Construction Manager prior to submission will help ensure functional and quality requirements are met and minimize rejections and re-submittals. When contemplating a variation which results in lower cost, consider submission of the variation as a Value Engineering Change Proposal (VECP).
  - 2. Proposing Variations: When proposing a variation, deliver written request to the Construction Manager, with documentation of the nature and features of the variation and why the variation is desirable and beneficial to the Owner. If lower cost is a benefit, also include an estimate of the cost-savings. In addition to documentation required for variation, include the submittals required for the item. Clearly mark the proposed variation in all documentation, identify variations from the contract requirements and changes in other work or products.
  - 3. Warranting That Variations Are Compatible: When delivering a variation for approval, Contractor warrants that this contract has been reviewed to establish that the variation, if incorporated, will be compatible with other elements of work. In submitting a substitution or variation, the Contractor represents that he will coordinate the installation of accepted substitutions or variation, and additional costs or delays caused by the substitution or variation will not constitute grounds for adjustments to the contract.
  - 4. Review Schedule Is Modified: In addition to normal submittal review period, a minimum period of five (5) and maximum period of 14 working days will be allowed for consideration by the Owner of submittals with variations.

### 3.04 CONTRACTOR'S RESPONSIBILITIES

- A. Determine and verify field measurements, materials, field construction criteria; review each submittal; and check and coordinate each submittal with requirements of the work and contract documents.  
  
Transmit submittals to Construction Manager in accordance with schedule on approved Submittal Register, and to prevent delays in the work, delays to the Owner, or delays to separate Contractors.
- B. Advise Construction Manager as required by paragraph entitled: "Variations."
- C. Correct and resubmit submittal as directed by approving authority. When resubmitting disapproved transmittals or transmittals noted for re-submittal, the Contractor shall provide copy of that previously submitted transmittal including all reviewer comments for use by approving authority. Direct specific attention in writing or on resubmitted submittal, to revisions not requested by approving authority on previous submissions.
- D. Submittals are to be done electronically, via email to the team determined by the owner, in PDF format.
- E. Furnish hard copies of submittal when requested by the Construction Manager, to a limit of 6 copies per submittal.
- F. Complete work which must be accomplished as basis of a submittal in time to allow submittal to occur as scheduled.
- G. Ensure no work has begun until submittals for that work have been reviewed and returned stamped by the Engineer of Record, as explained in Paragraph 3.08 D or this Section, except to the extent that a portion of work must be accomplished as basis of submittal.

### 3.05 DELIVERY OF SUBMITTALS

- A. Transmittal Form: Transmit each submittal, except sample installations and sample panels, to office of approving authority. Transmit submittals electronically with transmittal form prescribed by Construction Manager and standard for project. The transmittal form shall identify Contractor, indicate date of submittal, and include information prescribed by transmittal form and required in paragraph entitled "Identifying Submittals." Process transmittal forms to record actions regarding sample panels and sample installations. All submittals must be sent to the Construction Manager, who shall forward submittals on to the Engineer of Record, if required, for approval.
- B. Identifying Submittals: Identify submittals, except sample panel and sample installation, with the following information permanently adhered to or noted on each separate component of each submittal and noted on transmittal form. Mark each copy of each submittal identically, with the following:
  - 1. Construction contract number.
  - 2. Section number of the specification section by which submittal is required.
  - 3. Submittal description (SD) number of each component of submittal.
  - 4. When a resubmission, add alphabetic suffix on submittal description, for example, SD-10A, to indicate resubmission.

5. Name, address, and telephone number of subcontractor, supplier, manufacturer, and any other second tier Contractor associated with submittal.
6. Product identification and location in project.

### 3.06 FORMAT OF SUBMITTALS

#### A. Format for SD-02 Shop Drawings

1. Shop drawings shall not be less than 8½ by 11 inches nor more than 22 by 34 inches. Submit in the form of blue line or black line prints of each sheet. Blue prints will not be accepted.
2. Present 8½ by 11 inch sized shop drawings as part of the bound volume for submittals required by section. Present larger drawings in sets.
3. Include on each drawing the drawing title, number, date, and revision numbers and dates, in addition to information required in paragraph entitled "Identifying Submittals."
4. Dimension drawings, except diagrams and schematic drawings; prepare drawings demonstrating interface with other trades to scale. Shop drawing dimensions shall be the same unit of measure as indicated on the contract drawings. Identify materials and products for work shown.
5. Shop Drawings shall not be direct reproductions of contract design drawings.

#### B. Format of SD-03 Product Data and SD-08 Manufacturer's Instruction's

1. Present product data submittals for each section as a complete, bound volume. Include table of contents, listing page and catalog item numbers for product data.
2. Indicate, by prominent notation, each product which is being submitted; indicate specification section number and paragraph number to which it pertains
3. Supplement product data with material prepared for project to satisfy submittal requirements for which product data does not exist. Identify this material as developed specifically for project.

#### C. Format of SD-04 Samples

1. Furnish samples in sizes below, unless otherwise specified or unless the manufacturer has prepackaged samples of approximately the same size as specified:
  - a. Sample of Equipment or Device: Full size.
  - b. Sample of Materials Less Than 2 by 3 inches: Built up to 8½ by 11 inches.
  - c. Sample of Materials Exceeding 8½ by 11 inches: Cut down to 8½ by 11 inches and adequate to indicate color, texture, and material variations.
  - d. Sample of Linear Devices or Materials: 10 inch length or length to be supplied, if less than 10 inches. Examples of linear devices or materials are conduit and handrails.
  - e. Sample of Non-Solid Materials: Pint. Examples of non-solid materials are sand and paint.

- f. Color Selection Samples: 2 by 4 inches.
  - g. Sample Panel: 4 by 4 feet.
  - h. Sample Installation: 100 square feet.
- D. Format of SD-05 Design Data and SD-07 Certificates
  - 1. Provide design data and certificates on 8½ by 11 inches paper. Provide a bound volume for submittals containing numerous pages.
- E. Format of SD-06 Test Reports
  - 1. Provide reports on 8½ by 11 inch paper in a complete bound volume.
  - 2. Indicate by prominent notation, each report in the submittal. Indicate specification number and paragraph number to which it pertains.
- F. Format of SD-01 Preconstruction Submittals and SD-09 Closeout Submittals
  - 1. When submittal includes a document which is to be used in project or become part of project record, other than as a submittal, do not apply Contractor's approval stamp to document, but to a separate sheet accompanying document.
  - 2. As-Built drawings sets shall be full sized (24" x 32") and represent the installed condition of the Work. The drawings shall clearly mark out where the installed condition differs from the Contract Documents. In addition to the hard copies, the As-Built drawings shall be submitted electronically in both AutoCAD format (.dwg) version 2007 or newer and Portable Document Format (.pdf).
  - 3. Photographs shall be submitted electronically in JPEG-format (.jpg) as well as Portable Document Format (.pdf). Photographs shall be in color and shall be a minimum of 3 megapixels in size. The location, photo directions, elevation, and date/time taken shall be submitted in conjunction with the PDF submission.

### 3.07 QUANTITY OF SUBMITTALS

- A. Unless otherwise noted, all submittals should be in PDF format and transmitted electronically. If hard copies are requested:
  - 1. Number of copies of SD-02 Shop Drawings
    - a. The Owner and/or Construction Manager may designate that all submittals shall be "paperless" and the contractor may transmit submittals via electronic file.
    - b. Submit four (4) copies of submittals of Shop Drawings. One (1) print with the Construction Manager's review comments will be returned to the Contractor. The Contractor may make and distribute such copies as desired.
  - 2. Number of Copies of SD-03 Product Data and SD-08 Manufacturer's Instructions
    - a. Submit in compliance with quantity requirements specified for shop drawings.
  - 3. SD-04 Number of Samples



- a. Submit two (2) samples, or two (2) sets of samples showing range of variation, of each required item. One (1) approved sample or set of samples will be retained by approving authority and one (1) will be returned to Contractor.
  - b. Submit one (1) sample panel. Include components listed in technical section or as directed.
  - c. Submit one (1) sample installation, where directed.
  - d. Submit one (1) sample of non-solid materials.
4. Number of Copies SD-05 Design Data and SD-07 Certificates
  - a. Submit in compliance with quantity requirements specified for shop drawings.
5. Number of Copies SD-06 Test Reports
  - a. Submit in compliance with quantity requirements specified for shop drawings.
6. Number of Copies of SD-01 Preconstruction Submittals and SD-09 Closeout Submittals.
  - a. Unless otherwise specified, submit administrative submittals compliance with quantity requirements specified for shop drawings. Submit six (6) copies of all Closeout Submittals.

### 3.08 REVIEW BY OWNER'S REPRESENTATIVE

- A. Review by the Construction Manager and Engineer of Record does not relieve the Contractor from responsibility for errors or omissions which may exist in the submitted data.
- B. Revisions:
  1. Make revisions required by the Construction Manager and Engineer of Record.
  2. If the Contractor considers any required revision to be a change, he shall so notify the Construction Manager, in writing, in accordance with the specifications.
  3. Make only those revisions directed or accepted by the Construction Manager and Engineer of Record.
- C. Reimbursement of Owner's Representative's Costs:
  1. In the event substitutions are proposed to the Construction Manager after the Contract has been awarded, the Construction Manager will record all time used by him and by his consultants in evaluation of each such proposed substitution.

Whether or not the Construction Manager and/or Engineer of Record accepts a proposed substitution, the Contractor may be responsible for the costs of the Construction Manager and/or Engineer of Record and consultants for all time spent by them in evaluating the proposed substitution, plus administrative fees. The costs will be deducted from outstanding pay requests due to the Contractor by way of a Change Order.

D. Engineer of Record Review Stamp:

1. The Engineer of Record will use the following approval statement when returning submittals to the Contractor as "Fabrication May Proceed" or "Do Not Fabricate":
  - a. "Submission has been checked for general conformance with design concept of the project. Comments made on [type of submittal] do not relieve the Contractor from compliance with requirements of the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades."

Fabrication May Proceed: \_\_\_\_\_ Do Not Fabricate: \_\_\_\_\_

By: \_\_\_\_\_ Date: \_\_\_\_\_

Note: \_\_\_\_\_

Actions Possible

- b. The Engineer of Record review stamp will indicate the status of the submittal, and corresponding action to be taken by the Contractor as follows:
  - (i) Submission is in general conformance with design concept: When the Engineer of Record marks the submittal "Submission is in general conformance with design concept", the Work covered by the submittal may proceed, provided it complies with the requirements of the Contract Documents. Final payment depends on that compliance.
  - (ii) Submission is in general conformance with design concept, except as noted: When the Engineer of Record marks the submittal "Submission is in general conformance with design concept, except as noted", the Work covered by the submittal may proceed provided it complies with the notations on the submittal and requirements of the Contract Documents. Final payment depends on that compliance.
  - (iii) Revise and Resubmit: When the Engineer of Record marks the submittal "Revise and Resubmit", the Work covered by the submittal may not proceed. The submittal must be revised to comply with the notations on the submittal and requirements of the Contract Documents, and must then resubmit to the Engineer of Record prior to the commencement of the work described in the submittal. Final payment depends on that compliance.
  - (iv) Submission is rejected for non-conformance with design concept: When the Engineer of Record marks the submittal "Submission is rejected for non-conformance with design concept", do not proceed with the Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise and prepare a new submittal according to the notations, resubmit without delay. Repeat if necessary to obtain a different action mark.
  - (v) Do not use, or allow others to use submittals marked "Submission is rejected for non-conformance with design concept" at the Project Site or elsewhere where Work is in progress.

PART 4.0 - MEASUREMENT AND PAYMENT

Include within the Contract prices the amount sufficient to cover all costs for work of this section. No separate payment will be made for work completed under this section. A Schedule of Values shall be submitted to and approved by the Owner's Representative.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

- A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
  - ASTM A880 Criteria for Use in Evaluation of Testing Laboratories and Organization for Examination and Inspection of Steel, Stainless Steel, and Related Alloys
  - ASTM C1077 Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation
  - ASTM C31 Standard Method of Making and Curing Concrete Compressive and Flexural Test Specimens in the Field.
  - ASTM C39 Standard method of Test for Compressive Strength of Cylindrical Concrete Specimens.
  - ASTM C94 Standard Specification for Ready-Mix Concrete.
  - ASTM C138 Standard Method of Test for Unit Weight, Yield, and Air Content of Concrete.
  - ASTM C172 Standard Method of Sampling Fresh Concrete.
  - ASTM C192 Standard Method of Making and Curing Concrete Test Specimens in the Laboratory.
  - ASTM C214 Recommended Practice for Evaluation of Compression Test Results of Field Concrete.
  - ASTM D3740 (Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
  - ASTM E329 Agencies Engaged in the Testing and/or Inspection of Materials Used on Construction
  - ASTM E543 Evaluating Agencies that Perform Nondestructive Testing

### 1.02 SUBMITTALS

Submit the following in accordance with Section 01330 entitled "Submittal Procedures."

- A. Contractor Production Report.

### 1.03 TESTING

Except as stated otherwise in the specification sections, perform sampling and testing required under this Contract.

- A. Provide an independent testing laboratory qualified to perform sampling and tests required by this Contract. When the proposed testing laboratory is not accredited by an acceptable "Qualified National Authority" listed in the paragraph entitled "Qualified National Authority," submit to the Contracting Officer for approval, certified statements, signed by an official of the testing laboratory attesting that the proposed laboratory, meets or conforms to the following requirements:

1. Laboratories engaged in testing of construction materials shall meet the requirements of ASTM E329.
  2. Laboratories engaged in testing of concrete and concrete aggregates shall meet the requirements of ASTM C1077.
  3. Laboratories engaged in testing of soil and rock, as used in engineering design and construction, shall meet the requirements of ASTM D3740.
  4. Laboratories engaged in inspection and testing of steel, stainless steel, and related alloys will be evaluated according to ASTM A880.
  5. Laboratories engaged in nondestructive testing (NDT) shall meet the requirements of ASTM E543.
  6. Laboratories engaged in Hazardous Materials Testing shall meet the requirements of OSHA and EPA.
- B. Qualified National Authorities are the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology, the American Association of State Highway and Transportation Officials (AASHTO) program, and the American Association for Laboratory Accreditation (A2LA) program. Furnish to the Owner, a copy of the Certificate of Accreditation and Scope of Accreditation. The scope of the laboratory's accreditation shall include the test methods required by the Contract.
- C. Prior to approval of non-accredited laboratories, the proposed testing laboratory facilities and records may be subject to inspection by the Engineer. Records subject to inspection include equipment inventory, equipment calibration dates and procedures, library of test procedures, audit and inspection reports by agencies conducting laboratory evaluations and certifications, testing and management personnel qualifications, test report forms, and the internal QC procedures.
- D. The Owner retains the right to check laboratory equipment in the proposed laboratory and the laboratory technician's testing procedures, techniques, and other items pertinent to testing, for compliance with the standards set forth in this Contract.  
Cite applicable Contract requirements, tests or analytical procedures used when reporting test results. Provide actual results and include a statement that the item tested or analyzed conforms or fails to conform to specified requirements. If the item fails to conform, notify Owner immediately. Conspicuously stamp the cover sheet for each report in large red letters "CONFORMS" or "DOES NOT CONFORM" to the specification requirements, whichever is applicable. Test results shall be signed by a testing laboratory representative authorized to sign certified test reports. Furnish the signed reports, certifications, and other documentation to the Owner. Furnish a summary report of field tests at the end of each month.
- E. The Contractor shall furnish the signed reports, certifications, and a summary report of field tests at the end of each month to the Owner.

#### 1.04 COMPLETION INSPECTIONS

- A. Near the completion of all work or any increment thereof established by a completion time stated elsewhere in the specifications, the Contractor shall conduct an inspection of the work and develop a "punch list" of items which do not conform to the approved drawings and specifications. Include in the punch list any remaining items on the "Rework Items List" which were not corrected prior to the Punch-Out

Inspection. The punch list shall include the estimated date by which the deficiencies will be corrected. A copy of the punch list shall be provided to the Owner. The Contractor or staff shall make follow-on inspections to ascertain that all deficiencies have been corrected. Once this is accomplished, the Contractor shall notify the Owner that the facility is ready for the Owner "Pre-Final Inspection."

- B. The Owner will perform a pre-final inspection to verify that the facility is complete and ready to be occupied. An Owner "Pre-Final Punch List" may be developed as a result of this inspection. The Contractor shall ensure that all items on this list are corrected prior to notifying the Owner that a "Final" inspection can be scheduled. Any items noted on the "Pre-Final" inspection shall be corrected in timely manner and shall be accomplished within the time slated for completion of the entire work, or any particular increment thereof if the project is divided into increments by separate completion dates.
- C. The Contractor's Project Manager, the superintendent or other primary contractor management personnel, and the Owner's Representative will be in attendance at the Final Acceptance Inspection. Additional Owner personnel may be in attendance. The final acceptance inspection will be formally scheduled by the Engineer based upon results of the "Pre-Final" inspection. Notice shall be given to the Owner at least 14 days prior to the final inspection stating that all specific items previously identified to the Contractor as being unacceptable, along with all the remaining work performed under the contract, will be complete and acceptable by the date scheduled for the final acceptance inspection.

#### 1.05 DOCUMENTATION

- A. Maintain current and complete records of on-site and off-site QC program operations and activities.
- B. Contractor Production Reports are required for each day that work is performed. Account for each calendar day throughout the life of the Contract. The reporting of work shall be identified by terminology consistent with the construction schedule. Contractor Production Reports are to be prepared, signed and dated by the project superintendent and shall contain the following information:
  - 1. Date of report, report number, name of contractor, Contract number, title and location of Contract and superintendent present.
  - 2. Weather conditions in the morning and in the afternoon including maximum and minimum temperatures.
  - 3. Identify work performed by corresponding Scheduled Activity No., Modification No., etc.
  - 4. A list of Contractor and subcontractor personnel on the work site, their trades, employer, work location, description of work performed, hours worked by trade, daily total work hours on work site, and total work hours from start of construction.
  - 5. A list of job safety actions taken and safety inspections conducted. Indicate that safety requirements have been met including the results on the following:
    - a. Was a job safety meeting held? (If YES, attach a copy of the meeting minutes.)

- b. Were there any lost time accidents? (If YES, attach a copy of the completed OSHA report.)
  - c. Was crane/trenching/scaffold/high voltage electrical/high work done? (If YES, attach a statement or checklist showing inspection performed.)
  - d. Was hazardous material/waste released into the environment? (If YES, attach a description of meetings held and accidents that happened.)
  - e. List safety actions taken today and safety inspections conducted.
- 6. A list of equipment/material received each day that is incorporated into the job.
  - 7. A list of construction equipment on the work site including the number of hours used, idle and down for repair.
  - 8. Include a "remarks" section in this report which will contain pertinent information including directions received, problems encountered during construction, work progress and delays, conflicts or errors in the drawings or specifications, field changes, safety hazards encountered, instructions given and corrective actions taken, delays encountered and a record of visitors to the work site.

#### 1.06 NOTIFICATION ON NON-COMPLIANCE

- A. The Owner will notify the Contractor of any detected non-compliance with the foregoing requirements. The Contractor shall take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Owner may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time for excess costs or damages by the Contractor.

#### PART 2.0 - PRODUCTS

Not used.

#### PART 3.0 - EXECUTION

Not used.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

- A. CODE OF FEDERAL REGULATIONS (CFR)
  - 29 CFR 1910 Occupational Safety and Health Standards
  - 40 CFR 261 Identification and Listing of Hazardous Waste
  - 40 CFR 262 Generators of Hazardous Waste
  - 40 CFR 263 Transporters of Hazardous Waste
  - 40 CFR 264 Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
  - 40 CFR 265 Interim Status Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
  - 40 CFR 300 National Oil and Hazardous Substances Pollution Contingency Plan
  - 49 CFR 171 General Information, Regulations, and Definitions
  - 49 CFR 172 Hazardous Materials, Tables, and Hazardous Materials Communications Regulations
  - 49 CFR 178 Shipping Container Specification
- B. ENVIRONMENTAL PROTECTION AGENCY (EPA)
  - EPA 832-R-92-005 Storm Water Management for Construction Activities

### 1.02 CONTRACTOR LIABILITIES FOR ENVIRONMENTAL PROTECTION

Contractors shall complete and provide environmental training documentation for training required by Federal, State, and local regulations.

### 1.03 DEFINITIONS

- A. Sediment
  - Soil and other debris that has eroded and been transported by runoff water or wind.
- B. Solid Waste
  - Rubbish, debris, garbage, and other discarded solid materials, except hazardous waste as defined in paragraph entitled "Hazardous Waste," resulting from industrial, commercial, and agricultural operations and from community activities.
- C. Sanitary Wastes
  - Wastes characterized as domestic sanitary sewage.
- D. Rubbish
  - Combustible and noncombustible wastes such as paper, boxes, glass, crockery, metal, lumber, cans, and bones.
- E. Debris
  - Combustible and noncombustible wastes such as ashes and waste materials resulting from construction or maintenance and repair work, leaves, and tree trimmings.



- F. Chemical Wastes  
This includes salts, acids, alkalies, herbicides, pesticides, and organic chemicals.
- G. Garbage  
Refuse and scraps resulting from preparation, cooking, dispensing, and consumption of food.
- H. Hazardous Waste  
Hazardous substances as defined in 40 CFR 261 or as defined by applicable State and local regulations.
- I. Hazardous Materials  
Hazardous materials as defined in 49 CFR 171 and listed in 49 CFR 172.
- J. Landscape Features  
Trees, plants, shrubs, and ground cover.
- K. Oily Waste  
Petroleum products and bituminous materials.

#### 1.04 SUBMITTALS

Submit the following in accordance with Section entitled "Submittal Procedures."

- A. Pre-construction survey report.
- B. Submit a copy of an approved laboratory analysis of materials collected as a result from abrasive blasting operations before disposing of waste materials.
- C. Submit copies of any State and local permits or licenses for the solid waste disposal facility.
- D. Submit a copy of the applicable EPA and State permits, manifests, or licenses for transportation, treatment, storage, and disposal of hazardous waste by permitted facilities.
- E. Submit one copy of the EPA or State permit license, or regulation for the transporter who will ship the hazardous waste to the permitted Treatment, Storage, and Disposal (TSD) facility.
- F. Submit written certification that hazardous waste turned in for disposal was generated on the Owner's property and is identified, packaged, and labeled in accordance with 40 CFR 261, 40 CFR 262, and 40 CFR 263.

#### 1.05 ENVIRONMENTAL PROTECTION REGULATORY REQUIREMENTS

- A. Provide and maintain, during the life of the contract, environmental protection as defined in this Section. Plan for and provide environmental protective measures to control pollution that develops during normal construction practice. Plan for and provide environmental protective measures required to correct conditions that develop during the construction of permanent or temporary environmental features associated with the project. Comply with Federal, State, and local regulations pertaining to the environment, including but not limited to water, air, solid waste, and noise pollution.

#### 1.06 ENVIRONMENTAL PROTECTION PLAN

- A. Contents of Environmental Protection Plan

1. Include any hazardous materials (HM) planned for use on the job. Submit a list (including quantities) of HM to be brought to the site and copies of the corresponding material safety data sheets (MSDS). Submit this list to the Owner. At project completion, remove any hazardous material brought onto the site. Account for the quantity of HM brought to the site, the quantity used or expended during the job, and the left over quantity which (1) may have additional useful life as a HM and shall be removed by the Contractor, or (2) may be a hazardous waste, which shall then be removed as specified herein.
2. The Environmental Protection Plan shall list and quantify any Hazardous Waste (HW) to be generated during the project.
3. Store HW near the point of generation up to a total quantity of 55 gallons of hazardous waste. Move any volume exceeding these quantities to a HW permitted area within 3 days. Properly label all hazardous waste to be stored in accordance with applicable regulations.  
Contact Owner for conditions in the area of the project which may be subject to special environmental procedures. Include this information in the Pre-construction Survey. Describe in the Environmental Protection Plan any permits required prior to working the area, and contingency plans in case an unexpected environmental condition is discovered.
4. Obtain permits for handling HW, and deliver completed documents to Engineer for review. File the documents with the appropriate agency, and complete disposal with the approval of Owner. Deliver correspondence with the State concerning the environmental permits and completed permits to Owner.

- B. Environmental Protection Plan Format  
The Environmental Protection Plan shall conform to the following format:

#### 1.07 ENVIRONMENTAL PROTECTION PLAN

- A. Contractor Organization Address and Phone Numbers
1. Methods to be used to prevent soil erosion
  2. Methods to be used to contain spills of oily waste or debris
  3. Methods to be used to control dust
  4. Methods to be used for solid waste disposal
  5. Hazardous materials to be brought onto the site
  6. MSDS package
  7. Employee training documentation
  8. HW storage plan
  9. HW to be generated
  10. Pre-construction survey results
  11. Permitting requirements identified
- B. Perform a pre-construction survey of the project site with the Engineer, and document existing environmental conditions in and adjacent to the site.

#### PART 2.0 - PRODUCTS

Not used.

## PART 3.0 - EXECUTION

### 3.01 PROTECTION OF NATURAL RESOURCES

- A. Preserve the natural resources within the project boundaries and outside the limits of work. Restore to an equivalent or improved condition upon completion of work. Confine construction activities to within the limits of the work indicated or specified. Conform to the national and state permitting requirements of the Clean Water Act.
- B. Prevent oily or other hazardous substances from entering the ground, drainage areas, or local bodies of water. Surround all temporary fuel oil or petroleum storage tanks with a temporary earth berm of sufficient size and strength to contain the contents of the tanks in the event of leakage or spillage.
- C. Prevent oily substances or other debris from entering the water. Provide a temporary protective floating boom system, complete with associated hardware and anchors, to prevent debris from escaping from the work area. The boom shall totally enclose any active work or storage area. Booms shall have a minimum of 6 inches of freeboard, 12 inches draft, 11 pounds per foot buoyancy and a fabric strength of 13,000 pounds.
- D. Do not disturb fish and wildlife. Do not alter water flows or otherwise significantly disturb the native habitat adjacent to the project and critical to the survival of fish and wildlife, except as indicated or specified.

### 3.02 NOISE

- A. Make the maximum use of low-noise emission products, as certified by the EPA. Blasting or use of explosives will not be permitted without written permission from the Owner, and then only during designated times. Confine pile-driving operations to the period between 7 a.m. and 4 p.m., Monday through Friday, exclusive of holidays, unless otherwise directed.

### 3.03 EROSION AND SEDIMENT CONTROL MEASURES

- A. Burn-off of the ground cover is not permitted.
- B. Temporary Protection of Erodible Soils  
Use the following methods to prevent erosion and control sedimentation:
  - 1. Mechanically retard and control the rate of runoff from the construction site. This includes construction of diversion ditches, benches, berms, and use of silt fences and straw bales to retard and divert runoff to protected drainage courses.
  - 2. Provide temporary protection on sides and back slopes as soon as rough grading is completed or sufficient soil is exposed to require erosion protection. Protect slopes by accelerated growth of temporary vegetation, mulching, netting or other methods approved by the Engineer.

### 3.04 CONTROL AND DISPOSAL OF SOLID WASTES

- A. Pick up solid wastes on a daily basis, and place in covered containers that are regularly emptied. Do not prepare or cook food on the project site. Prevent contamination of the site or other areas when handling and disposing of wastes. At

project completion, leave the areas clean. Dispose of solid waste generated at locations as directed.

- B. Remove rubbish and debris from Owner property and dispose at a licensed disposal facility off-site.
- C. Place garbage in approved containers, and move to a pickup point or disposal area, where directed.

### 3.05 CONTROL AND DISPOSAL OF HAZARDOUS WASTE

- A. Handle generated hazardous waste in accordance with 40 CFR 262.
- B. Dispose of hazardous waste in accordance with Federal, State, and local regulations, especially 40 CFR 263, 40 CFR 264, and 40 CFR 265. Removal of hazardous waste from project site shall not occur without prior notification and coordination with the Owner. Transport hazardous waste by a permitted, licensed, or registered hazardous waste transported to a TSD facility. Hazardous waste shall be properly identified, packaged, and labeled in accordance with 49 CFR 172. Provide completed manifest for hazardous waste disposed of off-site to the Engineer within 7 days of disposal. Hazardous waste shall not be brought onto the site.
- C. Store hazardous waste in containers in accordance with 49 CFR 178. Identify hazardous waste in accordance with 40 CFR 261 and 40 CFR 262. Identify hazardous waste generated within the confines of the site by the site's EPA generator identification number.
- D. Take precautions to prevent spills of oil and hazardous material. In the event of a spill, immediately notify the Owner. Spill response shall be in accordance with 40 CFR 300 and applicable State regulations.
- E. Protect against spills and evaporation during fueling and lubrication of equipment and motor vehicles. Dispose of lubricants and excess oil in accordance with Federal, State, local regulations per 3.05B.

### 3.06 DUST CONTROL

- A. Keep dust down at all times, including nonworking periods. Sprinkle or treat, with dust suppressants, the soil at the site, haul roads, and other areas disturbed by operations. Dry power brooming will not be permitted. Instead, use vacuuming, wet mopping, wet sweeping, or wet power brooming. Air blowing will be permitted only for cleaning non-particulate debris such as steel reinforcing bars. Only wet cutting will be permitted for cutting concrete blocks, concrete, and bituminous concrete. Do not shake bags of cement, concrete mortar, or plaster unnecessarily.
- B. Abrasive Blasting
  - 1. The use of high pressure water blasting, in accordance with Society for Protective Coatings (SSPC) guidelines, in lieu of abrasive blasting is preferred method of substrate cleaning.
  - 2. The use of silica sand is prohibited in abrasive blasting.
  - 3. Provide tarpaulin drop cloths and windscreens to enclose abrasive blasting operations to confine and collect dust, abrasive agent, paint chips, and other. Perform work involving removal of hazardous material in accordance with 29 CFR 1910.

4. Collect dust, abrasive, paint, and other debris resulting from abrasive blasting operations on painted surfaces and store in 55 gallon drums with watertight lids. Take a representative sample of this material, and test for EP toxicity with respect to lead, chromium, and cadmium content. The sampling and testing shall be performed in accordance with 40 CFR 261. Handle debris resulting from the abrasive blasting operations as a hazardous material, and dispose of in accordance with 40 CFR 262, 40 CFR 263, 40 CFR 264, and 40 CFR 265. Transport hazardous material by a transporter licensed and permitted for transportation of hazardous materials. Dispose of hazardous material in an EPA-approved and permitted facility specifically designated for hazardous waste disposal.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work specified in this section.

### 1.02 SUMMARY

- A. This Section includes general procedural requirements governing execution of the Work including, but not limited to, the following:
  - 1. Construction Layout.
  - 2. Field engineering and surveying.
  - 3. General installation of products.
  - 4. Progress cleaning.
  - 5. Starting and adjusting.
  - 6. Protection of installed construction.
  - 7. Correction of the Work.
- B. Related Sections include the following:
  - 1. Division 1, Section "Project Management and Coordination" for procedures to coordinate field engineering with other construction activities.
  - 2. Division 1, Section "Submittal Procedures" for submitting surveys.
  - 3. Division 1, Section "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning.

### 1.03 SUBMITTALS

- A. Qualification Data: For land surveyor to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.
- B. Certificates: Submit certificate signed by land surveyor certifying that locations and elevation of improvements comply with requirements.
- C. Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal.
- D. Certified Surveys: Submit 5 copies signed by land surveyor.
- E. Final Property Survey: Submit 10 copies showing the Work performed and record survey data.

### 1.04 QUALITY ASSURANCE

- A. Land Surveyor Qualifications: A professional land surveyor who is legally qualified to practice in jurisdiction where Project is located and who has minimum of 5 years experience in providing land- surveying services of the kind indicated.

## PART 2.0 - PRODUCTS

Not Used.

## PART 3.0 - EXECUTION

### 3.01 IDENTIFICATION

- A. Verify layout information shown on the Drawings, in relation to the property survey and existing benchmarks, before proceeding to lay out the Work. Locate and protect existing benchmarks and control points. Preserve permanent reference points during construction.
  - 1. Do not change or relocate benchmarks or control points without prior written approval. Promptly report lost or destroyed reference points or requirements to relocate reference points due to necessary changes in grades or locations.
  - 2. Promptly replace lost or destroyed Project control points. Base replacements on the original survey control points.
- B. Establish and maintain a minimum of 2 permanent benchmarks on the site (if required to lay out work shown on contract drawings); referenced to data established by survey control points.
- C. Establish and maintain the Layout Baseline with the stationing indicated on the Contract Drawings.

### 3.02 EXAMINATION

Existing Conditions: The existence and location of previously installed site improvements, utilities, and other construction indicated as existing are not guaranteed. Before beginning work, investigate and verify the existence and location of all site utility systems and other construction affecting the Work.

- A. Before construction, verify the location and connection points of utility services.
- B. Existing Utilities: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning site work, investigate and verify the existence and location of all underground utilities and other construction affecting the Work.
  - 1. Before construction, verify the location and invert elevation at connection points of sanitary sewer, storm sewer, gas, telecom, water-service piping, irrigation, and underground electrical services.
  - 2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.

### 3.03 PREPARATION

- A. Existing Utility Information: Furnish information to Owner's Representative that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
- B. Existing Utility Interruptions: Do not interrupt utilities services serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify the Owner's Representative not less than 2 days in advance of proposed utility interruptions.
  2. Do not proceed with utility interruptions without Owner's Representative's written permission.
- C. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- D. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents, submit a request for information to the Owner's Representative. Include a detailed description of problem encountered, together with recommendations for changing the Contract Documents.

### 3.04 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Contract Documents in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Owner's Representative immediately.
- B. General: Engage a land surveyor to lay out the Work using accepted surveying practices.
1. Establish benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
  2. Establish dimensions with tolerances indicated. Do not scale Drawings to obtain required dimensions.
  3. Inform installers of lines and levels to which they must comply.
  4. Check the location, level and plumb, of every major element as the Work progresses.
  5. Notify Owner's Representative when deviations from required lines and levels exceed allowable tolerances.
  6. Close site surveys with an error of closure less than or equal to the standard established by authorities having jurisdiction.
- C. Site Improvements: Locate and lay out site improvements, including pavements, grading, fill and topsoil placement, utility slopes, and invert elevations.
- D. Building Lines and Levels: Locate and lay out control lines and levels for structures, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels. Level structures from two or more locations.
- E. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by the Engineer.



### 3.05 FIELD ENGINEERING

- A. Identification: Contractor will identify existing benchmarks, control points, and property corners.
- B. Reference Points: Locate existing permanent benchmarks, control points, and similar reference points before beginning the Work. Preserve and protect permanent benchmarks and control points during construction operations.
  - 1. Do not change or relocate existing benchmarks or control points without prior written approval of the Owner's Representative. Report lost or destroyed permanent benchmarks or control points promptly. Report the need to relocate permanent benchmarks or control points to the Owner's Representative before proceeding.
  - 2. Replace lost or destroyed permanent benchmarks or control points promptly. Base replacements on the original survey control points.
  - 3. Any required re-calculation and layout plan for an offset baseline shall be provided by the Contractor at no additional cost to the Owner.
- C. Benchmarks: Establish and maintain a minimum of two permanent benchmarks on Project site, referenced to data established by survey control points. Comply with authorities having jurisdiction for type and size of benchmark.
  - 1. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.
  - 2. Where the actual location or elevation of layout points cannot be marked, provide temporary reference points sufficient to locate the Work.
  - 3. Remove temporary reference points when no longer needed. Restore marked construction to its original condition.

### 3.06 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
  - 1. Make vertical work plumb and make horizontal work level.
  - 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- F. Anchors and Fasteners: Provide anchors and fasteners as required to anchor each component securely in place, accurately located and aligned with other portions of the Work.

1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by the Owner's Representative.
2. Allow for structure movement, including thermal expansion and contraction.
- G. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- H. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

### 3.07 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Coordinate progress cleaning for joint-use areas where more than one installer has worked. Enforce requirements strictly. Dispose of materials lawfully.
  1. Comply with requirements of NFPA 241 for removal of combustible waste materials and debris.
  2. Do not hold materials more than 7 days during normal weather or 3 days if the temperature is expected to rise above 80°F (27°C).
  3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
- B. Site: Maintain Project site free of waste materials and debris and ensure that no materials enter the adjacent waterway.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
  1. Remove liquid spills promptly.
  2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed areas.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. Cutting and Patching: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.
  1. Thoroughly clean piping, conduit, and similar features before applying paint or other finishing materials. Restore damaged pipe covering to its original condition.
- H. Waste Disposal: Burying or burning waste materials on-site will not be permitted. Washing waste materials down sewers or into waterways will not be permitted.

- I. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage, adverse weather conditions or deterioration at Substantial Completion.
- J. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- K. Limiting Exposures: Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

### 3.08 STARTING AND ADJUSTING

- A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
- B. Adjust operating components for proper operation without binding. Adjust equipment for proper operation.
- C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- D. Manufacturer's Field Service: If a factory-authorized service representative is required to inspect field-assembled components and equipment installation, comply with qualification requirements in Division 1, Section "Quality Control".

### 3.09 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Comply with manufacturer's written instructions for temperature and relative humidity.

### 3.10 CORRECTION OF THE WORK

- A. Repair or remove, and replace defective construction. Restore damaged substrates and finishes. Comply with requirements of original construction or installation of Work.
  - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
- B. Restore permanent facilities used during construction to their specified condition.
- C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
- D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.
- E. Remove and replace chipped, scratched, and broken materials.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 DESCRIPTION

- A. Throughout the construction period, maintain the worksites in a standard of cleanliness as described in this Section.
- B. In addition to standards described in this Section, comply with all requirements for cleaning as described in various other Sections of these Specifications.
- C. Maintain premises and public properties free from accumulations of waste, debris, and rubbish caused by operations.
- D. At completion of Work, remove and lawfully dispose of waste materials, rubbish, tools, equipment, machinery, and surplus materials, and clean all sight-exposed surfaces; leave project clean and ready for occupancy.

### 1.02 QUALITY ASSURANCE

- A. Conduct daily inspections, and more often if necessary, to verify that requirements of cleanliness are being met.
- B. In addition to the standards described in this Section, comply with all pertinent requirements of governmental agencies having jurisdiction.

### 1.03 SAFETY REQUIREMENTS

- A. Hazards Control
  - 1. Store volatile wastes in covered metal containers, and remove from premises daily.
  - 2. Prevent accumulation of wastes that create hazardous conditions.
  - 3. Provide adequate ventilation during use of volatile or noxious substances.
- B. Conduct cleaning and disposal operations to comply with all applicable ordinances and anti-pollution laws.

## PART 2.0 - PRODUCTS

Provide all required personnel, equipment, and materials needed to maintain the specified standard of cleanliness.

Use cleaning materials only on surfaces recommended by cleaning material manufacturer.

## PART 3.0 - EXECUTION

### 3.01 PROGRESS CLEANING

- A. General
  - 1. Retain all stored items in an orderly arrangement allowing maximum access, not impeding drainage or traffic, and providing the required protection of materials.
  - 2. Do not allow the accumulation of scrap, debris, waste material, and other items not required for construction of this Work.
  - 3. Wet down dry materials and rubbish to lay dust and prevent blowing dust.

4. At least once a week and more often if necessary, completely remove all scrap, debris and waste material from the job site.
  5. Provide adequate storage for all items awaiting removal from the job site, observing all requirements for fire protection and protection of the environment.
  6. Combustible waste, scrap, rubbish, etc., shall be stored in adequately sized metal containers (with metal covers) where practical, pending removal from the premises.
- B. Worksites
1. Daily, and more often if necessary, inspect each site and move all scrap, debris and waste material to a place designated for their storage.
  2. Weekly, and more often if necessary, inspect all arrangements of materials stored on each site; restack, tidy, or otherwise service all arrangements to meet the above requirements.
  3. Maintain each site in a neat and orderly condition at all times.
- C. Structures
1. Weekly, and more often if necessary, inspect the new structures and move all scrap, debris, and waste material to designated storage area.
  2. As required preparatory to installation of succeeding materials, clean the structures or pertinent portions thereof to the degree of cleanliness recommended by the manufacturer of materials required to achieve the required cleanliness.
  3. Handle materials in a controlled manner. Do not drop or throw materials from heights.
  4. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly finished surfaces.

### 3.02 FINAL CLEANING

- A. Prior to completion of the work, remove from the job site all tools, surplus materials, equipment, scrap, debris and waste.
- B. Employ experienced workmen, or professional cleaners, for final cleaning.
- C. In preparation for substantial completion or occupancy, conduct a final inspection of sight- exposed exterior surfaces, and of any concealed spaces.
- D. Structures
1. Visually inspect all surfaces and remove all traces of soil, waste material, smudges and other foreign matter. Remove all traces of splashed materials from adjacent surfaces. Remove all paint droppings, spots, stains, and dirt from finished surfaces. Use only the specified cleaning materials and equipment.
  2. Besides the general broom cleaning, the Contractor shall do the following special cleaning for all trades at the completion of the work and before final acceptance:

- a. Remove all marks, stains, and other soil or dirt from all newly finished surfaces.
  - b. Remove all stains and clean exposed concrete floors.
  - c. Clean and polish all hardware for all trades; this shall include removal of all stains, dust, dirt, paint, etc., upon completion.
  - d. Clean all new fixtures and equipment installed as part of this Contract, removing all stains, paint, dirt and dust.
  - e. Repair and patch marred surfaces to specified finish to match adjacent surfaces.
- E. Final Cleaning: Schedule final cleaning as approved by the Engineer to enable the Owner to accept a completely clean project.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work specified in this section.

### 1.02 SUMMARY

- A. This Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
  - 1. Inspection procedures.
  - 2. Project Record Documents.
  - 3. Operation and Maintenance manuals.
  - 4. Warranties.
  - 5. Instruction of Owner's personnel.
  - 6. SD-09 Closeout Submittals.
  - 7. Final cleaning.
- B. Related Sections include the following:
  - 1. Division 1, Section "Construction Progress Documentation" for submitting final documentation.
  - 2. Division 1, Section "Execution Requirements" for progress cleaning of Project site.
  - 3. Divisions 2 through 16, Sections for specific closeout and special cleaning requirements for products of those Sections.

### 1.03 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspections for determining date of Substantial Completion, complete the following (List items below that are incomplete in request):
  - 1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
  - 2. Advise Owner of pending insurance changeover requirements.
  - 3. Submit specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
  - 4. Obtain and submit releases permitting Owner unrestricted use of the Work and access to the services and utilities. Include occupancy permits, operating certificates, and similar releases.
  - 5. Prepare and submit Project Record Documents, operation and maintenance manuals, final property surveys, and similar final record information.
  - 6. Deliver tools, spare parts, extra materials, and similar items to location designated by Owner. Label with manufacturer's name and model number where applicable.

7. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
  8. Complete startup testing of systems.
  9. Submit test/adjust/balance records.
  10. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
  11. Advise Owner of changeover in all utilities.
  12. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
  13. Complete final cleaning requirements, including touchup painting.
  14. Touchup and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- B. Inspection: Submit a written request for inspection for Substantial Completion. On receipt of request, Engineer and/or Owner's Representative will either proceed with inspection or notify Contractor of unfilled requirements. The Owner's Representative will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by the Owner's Representative that must be completed or corrected before certificate will be issued.
1. Re-inspection: Request re-inspection when the Work identified in previous inspections as incomplete is completed or corrected.
  2. Results of completed inspection will form the basis of requirements for Final Completion.

#### 1.04 FINAL COMPLETION

- A. Preliminary Procedures: Before requesting final inspection for determining date of Final Completion, complete the following:
1. Submit a final Application for Payment according to payment procedure.
  2. Submit certified copy of Owner's Representative's endorsed and dated Substantial Completion inspection list of items to be completed or corrected (punch list). The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
  3. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
  4. Submit pest-control final inspection report and warranty.
  5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. Submit demonstration and training videotapes.
- B. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Engineer and/or Owner's Representative will either proceed with inspection or notify Contractor of unfilled requirements. The Owner's Representative will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.



1. Re-inspection: Request re-inspection when the Work identified in previous inspections as incomplete is completed or corrected.

#### 1.05 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Preparation: Submit three (3) copies of list. Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction. Use CSI Form 14.1A.
  1. Organize list of areas in phases to match construction schedule, starting with the northern areas first and proceeding south.
  2. Organize items applying to each phase of work by major element, including categories for earthwork, utility systems, paving, structures, irrigation, water supply, lighting, planting soils and mixes, and site furnishings.
  3. Include the following information at the top of each page:
    - a. Project Name.
    - b. Date.
    - c. Name of Engineer and Owner's Representative.
    - d. Name of Contractor.
    - e. Page number.

#### 1.06 WARRANTIES

- A. Submittal Time: Submit written warranties on request of Owner's Representative for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated.
- B. Partial Occupancy: Submit properly executed warranties within 15 days of completion of designated portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor.
- C. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
  1. Bind warranties and bonds in heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2" x 11" paper.
  2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
  3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES", Project name, and name of Contractor.
- D. Provide additional copies of each warranty to include in operation and maintenance manuals.

## PART 2.0 - PRODUCTS

### 2.01 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

## PART 3.0 - EXECUTION

### 3.01 FINAL CLEANING

- A. General: Provide final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances, and Federal and local environmental and anti-pollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial cleaning and maintenance program. Comply with manufacturer's written instructions.
  - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
    - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
    - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
    - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
    - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
    - e. Remove snow and ice to provide safe access along walkways.
    - f. Clean exposed hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces.
    - g. Remove debris from limited access spaces, including trenches, equipment vaults, manholes, and similar spaces.
    - h. Remove labels that are not permanent.
    - i. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
      - (i) Do not paint over "UL" and similar labels, including mechanical and electrical nameplates.
    - j. Wipe surfaces of mechanical and electrical equipment and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.

- k. Replace parts subject to unusual operating conditions.
  - l. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency. Replace burned-out bulbs, and those noticeably dimmed by hours of use, and defective fixtures.
  - m. Leave Project clean and ready for occupancy.
- C. Pest Control: Engage an experienced, licensed exterminator to make a final inspection and rid Project of rodents, insects, and other pests. Prepare a report.
- D. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on Owner's property. Do not discharge volatile, harmful, or dangerous materials into drainage systems or waterways. Remove waste materials from Project site and dispose of lawfully.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 SUMMARY OF WORK

- A. Under the applicable Division-2 sections referred to herein, the Contractor shall provide all labor, materials and equipment necessary to perform all site work that is indicated or covered by the Contract Documents.
- B. Site work shall be shown on the site improvement plans, or as specified herein, or as directed by the Owner's Representative. Work shall include, but not be limited to, the following:
  - 1. Earthwork
  - 2. Shoring and Bracing Earthwork
  - 3. Pile Remediation
  - 4. Temporary Environmental Controls
- C. The drawings and General Conditions of the Contract, including General and Supplementary Conditions, apply to work specified in the Division-2 sections indicated herein. The site improvement plans consisting of the following shall be referred to herein as the Site Plan.
  - 1. Facility Plan – Elevation and Location Key
- D. Site work shall be accomplished in accordance with the requirements and regulations of the City of New York.
- E. The Contractor shall provide continuous access to the site and shall coordinate work with all other contractors and subcontractors working on the site, adjacent roadway systems, or adjacent properties. The Contractor shall not obstruct access to and from the adjacent properties from the adjacent roadways and driveways.
- F. The Contractor shall provide a safe construction site at all times, and the public shall be protected from unreasonable hazards. Applicable local and/or State requirements shall be observed and necessary permits acquired by the Contractor. The Contractor shall take immediate steps to rectify any hazardous or unsafe condition determined so by the Consultant or the municipal agency having jurisdiction. The Contractor shall conform to the requirements of the municipal agency having jurisdiction; and Industrial Code Rule 23, Protection in Construction, Demolition and Excavation, Operations, of the Rules and Regulations of the State of New York and of Subsection 107-05 "Safety and Health Requirements" of the NYSDOT Standard Specifications.
- G. Throughout the specifications contained herein, reference is made to the requirements of the City of New York and the requirements of the utility having jurisdiction (water, sewer, electric, gas and telephone). When there is a conflict between the referenced specifications, requirements, details, and specifications contained herein, the more stringent requirements shall control, as determined by the Consultant or representative of agency having jurisdiction, as appropriate, shall be final.
- H. The Contractor shall obtain and observe the applicable sections of the following specifications, details and requirements herein referenced. In utilizing referenced Standard Details and Specifications, the Contractor shall conform to requirements governing the work, materials, or project and not the general provisions and other

provisions relating to measurement and payment. Standard Specifications, Details, Codes, Requirements, etc., specified herein by reference shall be as binding as if copied verbatim and specified directly herein.

1. The specifications, details and requirements of the City of New York.
  2. "Standard Specifications Construction and Materials, and Details", of the New York State Department of Transportation.
  3. Title 29 Code of Federal Regulations, Part 1926, Safety and Health Regulations for Construction, (OSHA).
  4. Industrial Code Rules of the New York State Department of Labor, Board of Standards and Appeals.
- I. Minimum Standard Reminder: Codes and Standard Specifications listed are minimum standards, and will not relieve the Contractor from carrying out all site work operations in a safe and prudent manner, or from providing a higher quality of material and workmanship. Workmen, the public, and adjacent property shall be protected from unreasonable hazard, and, the work shall be satisfactorily completed without causing damage to adjacent ground and structures.
- J. Conformance to the requirements herein does not relieve the Contractor from implementing additional measures or providing additional materials, work, equipment, personnel, etc., necessary to ensure a safe construction site and protection of existing facilities. The Contractor is placed on notice that safety during construction is considered as important as the construction itself. The Contractor shall, therefore, at all times conduct his operations in a manner to ensure that conditions on the site are adequate and effective for safety; and, to insure the convenience of abutting property, Owners and their safety as well as the safety of his own employees.
- K. Emergency Contact Person: The Contractor shall designate someone to be available to respond to emergency calls. The name of the person and the telephone number at which he/she can be reached at any time shall be given to the Consultant, Owner and all police agencies in the area. Such person shall have full authority and capability to mobilize forces promptly as required to respond to an emergency and protect the public.
- L. The work barges must be moored independently of the pier structures either by mooring piles (spuds) or anchors which must conform to USCG requirements.

#### 1.02 PERMITS AND BONDS

- A. Permits and Bonds: Purchase and submit copies of permits and bonds necessary in connection with the performance of the Work specified in this section. At the job site, post notices and copies of permits necessary for the proper and lawful performance of the work, in accordance with such permits.

END OF SECTION

## PART 1.0 - GENERAL

### 1.01 DESCRIPTION

- A. Work of this Section includes all labor, materials, equipment and services necessary to complete the temporary erosion control measures as shown on the Drawings or as ordered by the Engineer and/or Construction Manager or Engineer during the life of the Contract.  
The Contractor shall provide and maintain temporary vegetation of all areas disturbed by construction.
- B. Vegetative Measures
  - 1. Topsoil
  - 2. Mulching
- C. Temporary Structural Measures
  - 1. Earth Dike
  - 2. Temporary Swale
  - 3. Perimeter Dike/Swale
  - 4. Temporary Storm Drain Diversion
  - 5. Pipe Slope Drain
  - 6. Straw Bale Dike
  - 7. Silt Fence
  - 8. Storm Drain Inlet Protection
  - 9. Sediment Trap
  - 10. Portable Sediment Tank
  - 11. Sediment Basin
  - 12. Stabilized Construction Entrance
  - 13. Construction Road Stabilization
  - 14. Dust Control
  - 15. Sump Pit

### 1.02 RELATED WORK

- A. Temporary Environmental Controls Section 01575
- B. Cleaning Section 01710
- C. Site Work General Provisions Section 02100
- D. Concrete Pile Jacketing & Grouting Section 03310

### 1.03 QUALITY ASSURANCE

- A. The Contractor shall perform all operations in accordance with the rules, regulations and ordinances of those governing bodies having jurisdiction.
- B. NYSDEC General Permit GP-02-01

1. The project will be subject to the New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Stormwater Discharges from Construction Activity, Permit No. GP-02-01. The Owner will file a Notice of Intent (NOI) with the NYSDEC in accordance with the General Permit.
2. A Storm Water Pollution Prevention Plan has been prepared in accordance with the SPDES General Permit. The SWPPP is a part of the Contract Documents and the Contractor shall conform to the Chapter on Soil Erosion and Sediment Control in addition to the requirements of this Specification.
3. The Contractor(s) and Subcontractor(s) will be responsible for implementing all sediment control measures during construction. All contractors and subcontractors that will be performing excavations on the site must sign a copy of the certification statement before undertaking any construction or activity at the site. The certification must include the name and title of the person providing the signature; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification was made.

Certification Statement

"I certify under penalty of law that I understand and agree to comply with the terms and conditions of the Storm Water Pollution Prevention Plan (SWPPP) for the construction site identified in such SWPPP as a condition of authorization to discharge stormwater. I also understand that the operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards."

4. In the event of conflict between the requirements of these Project Specifications and the pollution control laws, rules or regulations of Federal, State or Local agencies, the more restrictive laws, rules or regulations shall govern.  
In accordance with the NYSDEC General Permit, the project is limited to a maximum disturbed area of 5.0 acres. The Contractor may alter the construction sequence only with prior approval by the Engineer. Areas covered with gravel, building sub-base material or temporary emulsion or stabilization shall be considered as stabilized.
5. Temporary stabilization must be maintained at all times. The Contractor is responsible for maintaining records to insure the 5 acre disturbance limit is met.
6. Providing and maintaining all temporary stabilization to meet the NYSDEC requirements shall be included in the Contract price. The Contractor shall maintain throughout the entire construction contract.

#### 1.04 SUBMITTALS

- A. Submit shop drawings in accordance with Section 01330-Submittals.
- B. Manufacturers specifications and other data required to demonstrate compliance with specific requirements of this Section.

### 1.05 JOB CONDITIONS

- A. The Contractor shall provide all necessary safeguards as may be required to prevent damage to property beyond the Work area or adjacent property.
- B. Area of Work
  - 1. In accordance with the NYSDEC General Permit, the project is limited to a maximum disturbed area of 5.0 acres. The Contractor may alter the construction sequence only with prior approval by the engineer. Areas covered with gravel, building sub-base material or temporary emulsion or stabilization shall be considered as stabilized.
  - 2. The Construction Manager or Engineer shall have the authority to increase or decrease the surface area of erodible earth material exposed by clearing and grubbing, and/or excavation and fill operations, and to direct the Contractor to provide immediate permanent or temporary pollution control measures to prevent contamination of adjacent streams or other watercourses, lakes, ponds or other areas of water impoundment.
- C. Temporary Erosion Control Measures
  - 1. Temporary erosion control measures shall be used to correct conditions that develop during construction that are needed prior to installation of permanent control features, or that are temporarily needed to control erosion that develops during normal construction practices, but which are not associated with permanent control features on the Project. All slopes and stockpile areas that will remain undisturbed and/or not top-soiled and seeded for a period of fourteen (14) days shall be temporarily seeded as specified on Drawings.
- D. Permanent Erosion Control Measures
  - 1. The Contractor shall incorporate all permanent erosion control features into the Project at the earliest practical time as outlined in the Project Schedule.

## PART 2.0 - PRODUCTS

### 2.01 GENERAL

- A. All materials shall be in accordance with the items specified on the Drawings and/or contained in the "New York Guidelines for Urban Erosion and Sediment Control", August 2005.

### 2.02 SILT FENCE

- A. Fence post shall be at least 36 inches long. Wood posts shall be of hardwood with a minimum cross section area of 4 inches. Steel posts shall be standard "T" or "U" sections and should weigh no less than one (1) pound per linear foot.
- B. Additional support shall be provided by a woven wire fence. Woven wire fence shall be at least 14-gauge with 2" x 4" openings. Plastic netting may be used in lieu of woven wire fence. The plastic netting shall be sewn on top of the geotextile filter fabric. Plastic netting shall have the following minimum properties.

Netting Property	Minimum Acceptable Value
Tensile Strength (lbs/ft)	185
Elongation (%)	11



- C. The geotextile filter fabric shall have the following minimum material properties.

Geotextile Property	Minimum Acceptable Value	Test Method
Grab Tensile Strength (lbs)	90	ASTM D1682
Elongation at Failure (%)	50	ASTM D1682
Mullen Burst Strength (psi)	190	ASTM D3786
Puncture Strength (lbs)	40	ASTM D751(mod)
Slurry Flow Rate (gal/min/sf)	0.3	
Apparent Opening Size (AOS)	40-80	US Std Sieve CW-02215
Ultraviolet Radiation Stability	90	ASTM G26

## 2.03 STABILIZED CONSTRUCTION ENTRANCE

- A. The geotextile filter fabric shall have the following minimum material properties.

Geotextile Property	Minimum Acceptable Value	Test Method
Grab Tensile Strength (lbs)	200	ASTM D1682
Elongation at Failure (%)	50	ASTM D1682
Mullen Burst Strength (psi)	190	ASTM D3786
Puncture Strength (lbs)	40	ASTM D751(mod)
Apparent Opening Size (AOS)	40-80	US Std Sieve CW-02215

- B. Stone size shall be a minimum of two (2) inches conforming to AASHTO M-43, Size no. 1.

## 2.04 DUST CONTROL

- A. Spray adhesives for use on mineral soils shall be as specified in the Table below.

Material	Water Dilution	Type of Nozzle	Apply Gallons/Acre
Acrylic Polymer	7:1	Course Spray	500
Latex Emulsion	12.5:1	Fine Spray	235
Resin in Water	4:1	Fine Spray	300
Polyacrylamide (PAM) Spray on or Dry Spread	Apply according to manufacturer's instructions.		
Acidulated soy bean soap stick	None	Course Spray	1200

- B. Tillage- to roughen surface and bring clods to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, and spring-toothed harrows are examples of equipment which may produce the desired effect.
- C. Sprinkling - site is sprinkled until the surface is wet.
- D. Barriers - solid board fences, snow fences, burlap fences, crate walls, bales of hay, and similar material can be used to control air currents and soil blowing.
- E. Calcium chloride- shall be in the form of loose, dry granules or flakes fine enough to feed through commonly used spreaders at a rate that will keep surface moist but not

cause pollution or plant damage. If used on steeper slopes, then use other practices to prevent washing into streams, or accumulation around plants.

- F. Stone – shall be crushed stone or coarse gravel conforming to AASHTO M-43, Size no. 57.

## 2.05 MULCH

### A. Mulch Materials

Material	Quality Standard	Application Rate per 1,000 s.f.	Depth of application
Small Grain Straw	Air dried; free of undesirable seeds and coarse material	90 to 100 lbs.	Cover about 90% of surface
Wood chips or Shavings	Green or air dried; free of objectionable coarse material	500 to 900 lbs	--
Jute Twisted Yarn	Undyed, unbleached plain weave. Warp 78 ends per yd. Weft 41 ends per yd. 60-90 lbs/roll	48" x 50 yards 48" x 75 yards	--
Gravel, crushed stone or slag	Washed: AASHTO M-43, Size no. 2. AASHTO M-43, Size no. 3.	9 cubic yards	Use Size no. 3 where subject to traffic

1. Alternate mulch materials as described in the "New York Guidelines for Urban Erosion and Sediment Control", August 2005 may be utilized with prior written approval of the Engineer.

### B. Mulch Anchoring

1. Mulch anchoring should be accomplished immediately after placement to minimize loss by wind or water. Anchoring may be done by one of the following methods, depending upon the size of the area, steepness of slopes, and costs.
2. Peg and Twine - Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss- cross and a square pattern. Secure twine around each peg with two or more round turns.
3. Mulch Nettings - Staple the light weight paper, jute, cotton, or plastic nettings to the soil surface. Mulch netting shall be biodegradable.
4. Crimper (mulch anchoring tool) - A tractor-drawn implement, somewhat like a disc- harrow especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.
5. Liquid Mulch-Binders - May be used to anchor salt hay or straw mulches.

- a. Applications should be heavier at edges where wind catches the mulch, in valleys, and at crests or banks. Remainder of area should be uniform in appearance.
- b. Use one of the following:
  - (i) Emulsified asphalt - (SS-I, CSS-I, CMS-2, MS-2, RS-I, RS-2, CRS-I, and CRS-2). Apply 0.04 gallons per sq. yd. or 194 gallons per acre on flat slopes less than 8 feet high. On slopes 8 feet high or more use 0.075 gallons per sq. yd. or 363 gallons per acre.
  - (ii) Cutback asphalt - rapid curing (RC-70, RC-250, and RC-800) or medium curing (MC-250 or MC-800). Apply 0.04 gallons per sq. yd. or 194 gallons per acre on flat areas and on slopes less than 8 feet high. On slopes 8 feet or more high, use 0.075 gallons per sq. yd. or 363 gallons per acre.
  - (iii) Synthetic or Organic binders - binders such as Curasol, DCA-70, Petro-set and Terra-Tack, or equal, may be used at rates recommended by the manufacturer to anchor mulch materials.

## PART 3.0 - EXECUTION

### 3.01 INSPECTION

- A. The Owner will retain an engineer to conduct on-site inspections every 7 days and within 24 hours of 0.5 inches or greater of rainfall for general compliance with the SWPPP and the General Permit. Inspection reports will be provided to the Owner and Contractor within 24 hours of the field inspection. Any problem areas of areas in need of additional stabilization will require immediate attention and correction by the Contractor.
- B. Examine the areas and conditions where Erosion Control Measures are to be installed and notify the Construction Manager or Engineer of conditions detrimental to the proper and timely completion of the Work. Do not proceed with the Work until unsatisfactory conditions have been corrected by the Contractor in a manner acceptable to the Construction Manager or Engineer.

### 3.02 GENERAL REQUIREMENTS

- A. The Contractor shall conduct his operations to minimize erosion of soils and to prevent silting and muddying of streams, rivers, irrigation systems, impoundments (lakes, reservoirs, etc.) and lands adjacent to or affected by the Work, in accordance with the approved Sequence of Construction, Drawings and these Project Specifications.
- B. Construction of drainage facilities and performance of other Work that will contribute to the control of erosion and sedimentation shall be carried out in conjunction with earthwork operations or as soon thereafter as practical.
- C. Where erosion is likely to be a problem, clearing and grubbing operations shall be scheduled so that grading operations and permanent erosion control features can follow immediately thereafter, if the Project conditions permit; otherwise, temporary erosion control measures may be required between successive construction stages. The area of bare soil exposed at any one time by construction operations shall be kept to a minimum.
- D. Throughout all operations covered by this Section, the Contractor shall provide all necessary measures to control dust through the use of water, calcium chloride or

other material in accordance with the approval of the Construction Manager or Engineer, at such locations and during such periods as he may direct, or as may be required by Local Ordinance or Authorities.

### 3.03 TEMPORARY EROSION CONTROL MEASURES

- A. Temporary erosion control measures shall be used to correct conditions that develop during construction that are needed prior to installation of permanent control features, or that are temporarily needed to control erosion that develops during normal construction practices, but which are not associated with permanent control features on the Project.
- B. The Contractor shall install all temporary sediment and erosion control measures in accordance with the Details and as described herein.

### 3.04 DUST CONTROL

- A. Throughout all operations covered by this Section of the Project Specifications, the Contractor shall provide all necessary measures to control dust through the use of water, resin-in-water emulsion or other material in accordance with the approval of the Construction Manager or Engineer, at such locations and during such periods as he may direct, or as may be required by Local Ordinance or Authorities.
- B. Any disturbed areas that are left exposed more than 14 days, and are not subject to construction traffic, will immediately receive a temporary seeding. If the season prevents the establishment of a temporary cover, the disturbed areas will be mulched with straw or equivalent material.
- C. Application of spray-on adhesive (resin-in-water emulsion) shall be applied at a rate of 300 gallons per acre. The resin-in-water emulsion shall be diluted at a ratio of 4:1 and shall be applied with a fine spray nozzle. The treated soil shall not be used for travel.
- D. Watering equipment shall consist of pipelines, tanks, tank trucks or other approved devices capable of applying a uniform spread of water over the surface. A suitable device for regulating the flow and positive shut-off of the water shall be provided for positive control by the operator.
- E. The Construction Manager or Engineer will advise the Contractor of any unsatisfactory procedures for dust control. If the unsatisfactory procedures are not corrected promptly, the Construction Manager or Engineer may suspend the performance of any or all construction until the condition has been corrected.

### 3.05 TEMPORARY SEEDING

- A. Fertilizer shall be applied at the rate of 14 lbs. per 1000 square foot or 600 lbs. per acre, using 5-10-10 or equivalent.
- B. Annual ryegrass shall be applied at the rate of 30 lbs. per acre, or other select mixture described in the standards.
- C. Small grain straw mulch shall be applied at a rate of 90 lbs. per 1000 square foot or 2 tons per acre, to be applied and anchored according to the standards.
- D. All slopes and stockpile areas that will remain undisturbed and/or not topsoiled and seeded for a period of fourteen (14) days shall be temporarily seeded as specified on Drawings.

### 3.06 SEDIMENTS AND POLLUTANTS

- A. Water from operations containing sediment shall be treated by filtration, settling basins or other approved means sufficient to reduce the sediment content to no more than that of the stream into which it is discharged.
- B. Pollutants such as fuels, lubricants, bitumens, raw sewage and other harmful materials shall not be discharged into or near rivers, streams, and impoundments or into natural or manmade channels leading thereto. Wash water or waste from concrete mixing operations shall not be allowed to enter live streams.

### 3.07 PERMANENT EROSION CONTROL MEASURES

- A. The Contractor shall incorporate permanent erosion control features into the Project at the earliest practical time as outlined in his accepted schedule.
- B. No area shall receive permanent seeding prior to approval by the Construction Manager or Engineer.

### 3.08 CONCRETE WASTE

- A. Discharge of excess or waste concrete and/or wash water from Concrete Ready-Mix Trucks will be allowed on the construction site, but only in specifically designated diked areas that have been prepared to prevent contact between the concrete and/or wash water and storm water that will be discharged from the site or in locations where waste concrete can be placed into forms to make riprap or other useful concrete products. The cured residue from the concrete washout diked areas shall be disposed in accordance with applicable state and federal regulations. The Contractor is responsible for assuring that these procedures are followed.

### 3.09 TEMPORARY FUEL TANKS

- A. Temporary on-site fuel tanks for construction vehicles shall meet all state and federal regulations. Tanks shall have approved spill containment with the capacity required by the applicable regulations. The tank shall be in sound condition free of rust or other damage that might compromise containment. Hoses, valves, fittings, caps, filler nozzles, and associated hardware shall be maintained in proper working condition at all times.

END OF SECTION

## PART 1.0 - GENERAL CONDITIONS

### 1.01 SCOPE

The work covered by this document consists of furnishing all materials and performing all operations required for pile repair/encapsulation using epoxy mortar or cementitious grout bags in conjunction with fiberglass jackets as formwork.

- A. Contractor shall provide all labor, materials tools and equipment required for the completion of the following work, as shown on the contract documents and specified herein:
  - 1. Prepare existing areas as defined by these specifications and associated contract drawings designated to receive epoxy mortar encasement and/or cementitious grout bags
  - 2. Furnish, transport, place and install all epoxy mortar or cementitious grout bags.
  - 3. Design, furnish, fabricate, install and remove, when called for, all formwork shores and bracing.
  - 4. Prepare fabrication and placement shop drawings listed below.
  - 5. Prepare design drawings and calculations for formwork, shores, and bracing as specified herein.
  - 6. Furnish all submittals required by this Section of the Specifications.
  - 7. Coordinate all work with other trades on site.

### 1.02 QUALITY ASSURANCE

- A. The manufacturer shall have a minimum 10 year history in the manufacture of epoxy and cementitious grout systems. The manufacturer shall provide on-site technical service at no cost to the engineer or contractor when sufficient advance notice is provided.
- B. The Contractor shall be responsible for the quality of the epoxy and cementitious grout and pile encasement construction. Quality of concrete will be evaluated by the Engineer, based on conformance with the requirements of this Section.
- C. The Contractor shall provide labor and means for obtaining all samples of concrete required for tests and for curing and protecting grout cubes at the construction site.

### 1.03 SUBMITTALS

- A. Comply with pertinent provisions of Section 01330 of these Specifications.
- B. Details shall be carried out in accordance with the New York City Building Code, and where no requirements are set forth in the Code, with the Standard ACI requirements, and as shown on plans.
- C. Product Data:

1. Description of epoxy and cementitious grout.
  2. Sieve and quality analysis of sand used to make epoxy grout.
  3. Description of any proposed admixtures including anti-washout and corrosion inhibitors.
  4. Quick connection adaptor for end of pumping hose and ports so that no product leaks from hose or form as hose is being transferred from one port to the next.
  5. Cementitious Hand Pack for sealing the tops of the pile encasements.
  6. Formwork catalog cuts; submit at least 21 days prior to ordering any material or assembling any formwork.
- D. Shop Drawings:
1. Formwork with pumping port construction and elevations, spacers, and sealing details.
- E. Design Data:
1. Cementitious or epoxy grout mix proportions: indicating strength, brand and type of product, amounts of any admixtures and proportions and size of aggregates.
  2. Pumping Plan - indicate equipment and methods that will be used to place concrete within forms, including maximum time between mixing and placement of concrete.
- F. Quality Assurance Documents:
1. Proposed method of sealing and resealing of hose and pump ports.
  2. Cold and/or hot weather epoxy or cementitious grouting procedures.

#### 1.04 DELIVERY, STORAGE AND HANDLING

- A. All materials shall be delivered to the jobsite in their original, unopened packages, clearly labeled with the product identification, printed instructions and batch code.
- B. Store and condition all epoxy components (resin, hardener and aggregate) between 60°F and 85°F (16°C and 29°C) for at least 24 hours prior to use. Refer to the product data sheet for more information. Store and condition other specified products in accordance with manufacturer's recommendations.
- C. Damaged or contaminated materials shall be removed from the site and replaced at no additional cost to the owner.

#### 1.05 PROJECT / SITE CONDITIONS

- A. Refer to Part C - PREPARATION, ENVIRONMENTAL CONDITIONS, or contact the manufacturer directly for any physical or environmental limitations required by the product.

- B. Contractor shall install epoxy or cementitious grout material only when environmental conditions match those recommended by manufacturer for specific product being used.
- C. Contractor shall submit both hot and cold weather installation procedures to Owner's Representative a minimum of 2 weeks prior to installing product under these operating conditions. No product shall be placed under these conditions without written approval from owner's Representative.
- D. Do not install material if ambient surface or water temperature drops below minimum temperature allowed by manufacturer without written approval from Owner's Representative.

## PART 2.0 - MATERIAL SPECIFICATIONS

### 2.01 MATERIALS

- A. Epoxy Grout (mortar)
  - 1. The pile encapsulation epoxy grout material shall be a 100% solids, premeasured, pre-packaged epoxy system containing thermosetting epoxy resins and inert fillers. The material shall be suitable for placement underwater via pouring or pumping. The manufacturer shall offer technical services and provide a representative at the job site for product training prior to product installation with reasonable advance notice.
  - 2. The pile repair/encapsulation material shall meet the following performance criteria at 70°F:
    - a. Compressive Strength, ASTM C579 B
      - 1 Day 2,000 psi
      - 28 Days 9,500 psi
    - b. Tensile Strength, ASTM C 307 2,000 psi
    - c. Bond to Concrete, ASTM C 882 2,200 psi
    - d. Linear Shrinkage, ASTM C 531 0.0%
    - e. Water Absorption, ASTM C 413 0.0%
    - f. Working Time 90 minutes
  - 3. Acceptable manufactures of products are:
    - a. BASF Building Systems of Shakopee, MN
    - b. Five Star Products of Fairfield, CT
    - c. Sika Corporation of Lyndhurst, NJ
    - d. Simpson Strong Tie of Pleasanton, CA
    - e. Denso North America of Houston, TX



- f. Approved Equal
  - 4. Any proposed substitution of manufacturers listed above shall contain certified test data verifying conformance with this specification. Three references of successfully completed projects of similar nature and scope of the work detailed in this specification shall be provided, as well as a minimum ten year history of use in the industry. The testing laboratory shall certify to any modifications made to tests performed and provide details of modifications.
- B. Cementitious Grout
- 1. Cementitious grout shall be a saltwater resistant, pre-packaged, cement-based grout requiring only the addition of potable water. The grout shall be formulated for exposure to fresh or saltwater environments. The manufacturer shall have at least 10 years of experience in the manufacture of precision cement-based grouts. The manufacturer shall offer technical services and provide a representative at the jobsite for product training prior to product installation upon five days advance notice.
  - 2. The grout material shall meet all the following typical performance criteria when cured at 73°F (23°C):
    - a. Grout shall not contain metallic aggregate, expansive cement, or gas generating additives such as aluminum powder.
    - b. Grout shall contain an air release aggregate to generate positive expansion.
    - c. Early Height Change, ASTM C 827                      0.0 to 4.0%
    - d. Hardened height Change, ASTM C 1090    0.0 to 0.3 %
    - e. Compressive Strength, ASTM C 109  
28 days                      6000 psi
    - f. Bond Strength, ASTM C882  
28 Days                      2000 psi
    - g. Working time                      30 minutes minimum
    - h. Meets performance requirements of ASTM C 1107
  - 3. Acceptable manufactures of products are:
    - a. BASF Building Systems of Shakopee, MN
    - b. Five Star Products of Fairfield, CT
    - c. Sika Corporation of Lyndhurst, NJ
    - d. Simpson Strong Tie of Pleasanton, CA
    - e. Denso North America of Houston, TX
    - f. Approved Equal

4. Any proposed substitution of manufacturers listed above shall contain certified test data verifying conformance with this specification. Three references of successfully completed projects of similar nature and scope of the work detailed in this specification shall be provided, as well as a minimum ten year history of use in the industry. The testing laboratory shall certify to any modifications made to tests performed and provide details of modifications.
- C. Aggregate
  1. Utilize quality and quantity of aggregate as directed by manufacturer.
- D. Water
  1. Water shall comply with the requirements of ASTM C 94 and the chloride and sulfate limits in accordance with ASTM D 512 and ASTM D 516. Mixing water shall not contain more than 500 parts per million of chlorides as Cl and not more than 100 parts per million of sulfates as SO<sub>4</sub>. Water shall be free from injurious amounts of oils, acids, alkalis, salts, and organic materials. Where water from reprocessed concrete is proposed for use in the work, submit results of tests to verify that the treatment has negated adverse effects of deleterious materials.
- E. Forms
  1. General
    - a. Formwork shall conform to the recommendations of ACI 347R. Forms shall be a minimum 1/8 in. thick translucent rigid fiberglass reinforced plastic (FRP) designed to confine the concrete and shape it to the required dimensions. Forms shall have sufficient strength to withstand the pressure resulting from all environmental forces prior to the placement of concrete as well as forces exerted during the placement of product and shall have sufficient rigidity to maintain specified tolerances. Earth cuts shall not be used as forms for vertical surfaces unless indicated on the Contract Documents.
    - b. Shop drawings of all formwork shall be submitted. These submittals shall include: material type and strength of formwork, method of sealing formwork in order to prevent leakage of concrete, type and locations of all pumping ports and vents, all supports and the location of shoring and reshoring, and structural computations relating test strength of concrete at the various stages to the strength requirements for the proposed forming and shoring system and the anticipated loads.
    - c. All spacers, straps, and ties shall be non-metallic and non-corrosive. Spacers shall be secured so as not to move out of position during the placement of concrete.
    - d. Shop drawings and computations shall be certified by, and bear the seal of, a Professional Engineer experienced in the design of formwork and licensed in the State in which the Work is to be performed.
  2. Design and Installation

- a. Design, engineering, and construction of formwork shall be the responsibility of Contractor. Approval of formwork shop drawings by Owner is for overall conception only, and shall not relieve Contractor from its responsibility for final safety and conformance with specified requirements
  - b. Contract drawings of formwork show one pump port placed near the bottom of the form. This is for visual representation only. The final design, overall number of pump ports and elevation of these pump ports is the sole responsibility of the contractor.
  - c. All pump ports shall have a watertight method of closure so that after the hose is removed from the port no water shall enter the port.
  - d. Forms shall be a rigid translucent material so that the product level inside the form is visible when looking at the outside face of the form. Form facing materials shall be nonreactive with product and shall be selected to produce, or facilitate, the required surface finish. The maximum deflection of facing materials reflected in product surfaces to be exposed to view in the finished work shall be 1/240 of the span between structural members.
  - e. Forms shall be sufficiently tight to prevent the loss of any material during the pumping and curing processes. The means and methods of maintaining the intended form shape and seal shall be the sole responsibility of the contractor.
  - f. Positive means of adjustment (strapping) shall be provided and all settlement shall be taken up during concrete placement operations. Forms shall be securely braced against lateral deflections.
  - g. Formwork shall be so anchored to shores or other supporting surfaces or members so that upward or lateral movement of any part of the formwork system, during product placement, will be prevented.
3. Tolerances
- Formwork shall be constructed so that product surfaces will conform to the tolerance limits recommended in ACI 347R.
- a. Flexural Strength ASTM D 790 34,000 psi (234 MPa)
  - b. Flexural Modulus ASTM D 790  $1.9 \times 10^6$  psi (13,100 MPa)
  - c. Ultimate Tensile Strength ASTM D 638 23,000 psi (158 MPa)
  - d. Tensile Modulus ASTM D 638  $1.7 \times 10^6$  psi (11,724 MPa)
  - e. Water Absorption ASTM D 570 0.09%
  - f. Barcol Hardness 50
  - g. UV Resistance ASTM G 153 No chipping, flaking or peeling at 500 hours
4. Preparation of Form Surfaces

- a. All surfaces of forms and embedded materials shall be cleaned of any debris and of all other foreign material, before concrete is placed.
- 5. Removal of Forms
  - a. Formwork shall remain in place. However formwork from one of the installed cementitious grout encasements shall be fully removed in order to facilitate an inspection of the underlying encasement. Forms may be removed after 28 days or when cube breaks of the product batch used during the installation of that encasement show the product has reached the required design strength. If significant defects are noted on the encasements with removed forms, the Owner's Engineer shall direct the Contractor to remove the additional cementitious grout encasement at no additional cost to the Owner. Significant defects shall include but not be limited to:
    - (i) Soft epoxy mortar: epoxy mortar is soft and allows penetration with a hand held hammer.
    - (ii) Voids: epoxy mortar is missing from intended location and reinforcing steel is exposed.
    - (iii) Shallow Coverage: Reinforcing steel (including tie wires) is visible on the outside of or protruding from the outside face of the epoxy mortar encasement.
    - (iv) Geometry of Encasement: Encasement geometry does not meet the placement tolerances established in this section of the specifications.
    - (v) Horizontal Construction Joints: epoxy mortar was not placed in a continuous manner creating a horizontal joint in the encasement.
  - b. Removal of forms shall be in a manner to insure complete safety of the structure, shall be in accordance with the applicable requirements of ACI 318 and this Section of the Specification, and shall be subject to the approval of Owner.
  - c. When repair of surface defects or finishing is required at an early age, as specified herein or as directed by Owner, forms shall be removed as soon as the concrete has hardened sufficiently to resist damage from removal operations.
- 6. Embedded Items
  - a. All embedded items including pile standoffs shall be nonmetallic.

## 2.02 EXISTING CONCRETE SURFACES

- A. Completely remove all loose, delaminated and weak concrete, oil, grease, laitance, marine growth and other contaminants. Prepare concrete using high pressure water blasting or other suitable mechanical means to obtain sound, clean and roughened surfaces. Contractor shall take precautions in order not to remove intact concrete section from the existing piles during preparation activities

- B. The permissible elapsed time between the cleaning of a pile and the installation of the encasement on that pile shall not exceed 72 hours. If this time frame is exceeded contractor shall re-clean the pile prior to placement of epoxy mortar.
- C. All cracks shall be brought to the attention of the engineer and a determination made of whether the cracks are subject to movement. The cracks shall be repaired as directed prior to installation of fiberglass jacket and epoxy grout.

### 2.03 REINFORCEMENT

- A. All exposed reinforcing steel that has lost bond with the concrete or has more than one-half of its circumference exposed should be undercut by at least 1/2 inch.

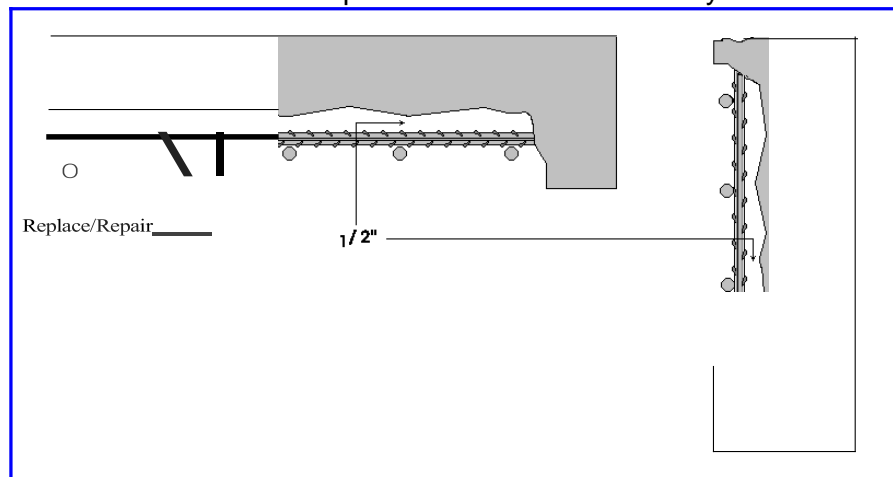


Diagram D: Reinforcement Profile Example

- B. If more than 25% of the diameter of a reinforcing bar has been deteriorated, the bar may require replacement or need to be spliced as directed by the engineer.
- C. All reinforcement shall be rigidly secured and supported.
- D. All exposed reinforcing steel shall be free of all loose scale, rust, oxidation and other contaminants. Blast steel to an SSPC - SP6 commercial finish or better. Exposed reinforcing steel may be sealed or primed if a delay occurs between surface preparation and epoxy grout placement.

### 2.04 JACKET PLACEMENT

- A. Fiberglass jackets may be one or two piece and should include standoffs that maintain specified annular space. Spacers/standoffs may be pre-molded into jackets or applied at job site.
- B. For pumping applications, secure suitable pump ports to jacket. Lowest port shall be maximum of 12 inches from the bottom of the formwork. Next highest port shall be 180° opposite the first port. If additional ports are needed alternate the placement 180° from the previous port.
- C. Use a suitable sealing compound to fill the groove side of the jacket opening.

- D. Wooden braces, battens or strong backs, should be placed on the outside of the jacket to prevent bulging. When the jacket is in position and the straps tight use stainless steel self-drilling/tapping screws to secure the tongue and groove joint. Locate screws so they go through both sides of the groove and the tongue. Use screws that are long enough to penetrate the jacket but not long enough to extend to the pile itself.

## 2.05 JACKET SEALING

The choice of bottom seal should be determined by environmental restrictions, owner preference or contractor experience. Typical bottom seals include closed foam strips, oakum and resin, nylon retainers and epoxy packing. Earth may not be used in lieu of bottom seal.

## 2.06 MIXING

- A. Mix epoxy parts, water and aggregate according to manufacturer's recommendation.
- B. Mix cementitious grout water and aggregate according to manufacturer's recommendation.
- C. Provide an adequate number of mixers in good operating condition for uninterrupted placement. Do not exceed one-half the maximum capacity of the mixer. A concrete mixer (spinning barrel mixer) is not acceptable for mixing epoxy grout.
- D. Do not mix more material than can be placed within the working time of the grout.
- E. Place grout immediately after mixing.

## PART 3.0 - APPLICATION

### 3.01 APPLICATION

- A. Pumping
  - 1. Grout shall be placed using the direct pumping method and shall not be permitted to fall through the water column. Pumping at each elevation shall continue until the concrete has reached the level of the next highest pumping port.
  - 2. A diver shall monitor the connection of the tube to the pump port for the duration of pumping operations. The mouth of the tube shall, at all times, remain securely connected to the pump port so as to exert the necessary resistance on the pump to prevent vacuum build-up from causing blockage in the pipe line.
  - 3. Each grout encasement shall be placed in a continuous manner from start to finish over its full height. Horizontal construction joints are not permitted, except when a grout plug is to be provided at the bottom of the encasement. epoxy mortar placement shall begin through the pump port at the lowest elevation.

4. During transition of the tube from one pump port to another, no water shall be permitted to enter the tube and no concrete shall leak from the pump ports.
5. If a blockage or loss of seal occurs, epoxy mortar placement shall cease immediately; the tube shall be detached from pump port, the blockage cleared, the tube recharged and reattached to pump port. If it is feasible to clear the blockage without removing the tube, that may be permitted if approved by the Engineer.
6. Additional tempering of mixed grout (i.e. the addition of water, plasticizers or other admixtures) is not be permitted without written approval from the Engineer.
7. A peristaltic type pump is recommended for pumping epoxy grout. Contractor shall utilize adequate pumping equipment to ensure smooth continuous pumping operations.
8. Prime pump and lines with a suitable primer that will not contaminate grout. Ensure material used for priming is discarded and not used for jacket filling.
9. Allow grout to overtop form until all water and laitance has been removed from the inside of the form.

### 3.02 TESTING

#### A. General

1. Testing agencies shall conform to the requirements of ASTM E329.
2. Construction operations will be tested and inspected as the Work progresses. Failure to detect any defective Work or materials shall not in any way prevent later rejection when such defect is discovered, nor shall it obligate Owner for final acceptance.
3. Contractor shall cooperate with Owner by providing access to the Work for any testing and inspection as required by Owner.
4. Testing services, required to be provided by Contractor, shall be performed by a testing agency approved by Owner. Test reports, including results and interpretation of results, and certification of conformance with specified requirements, shall be transmitted directly from testing agency to Owner.

#### B. Strength Testing

1. Samples used in testing procedures shall be taken from the end of the hose that will be attached directly to the pumping ports of the form.
2. Strength test of cementitious and epoxy grout shall be in conformance with ASTM C109 C579 B respectively.

END OF SECTION

**EXHIBIT H**

**PERMITS**

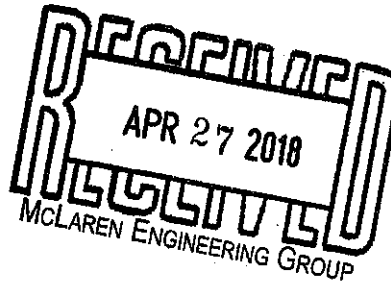


**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

Division of Environmental Permits, Region 2  
47-40 21st Street, Long Island City, NY 11101  
P: (718) 482-4997 | F: (718) 482-4975  
www.dec.ny.gov

April 24, 2018

Shea Thorvaldsen  
McLaren Engineering Group  
100 Snake Hill Road  
West Nyack, NY 10995



140950.32

SAF  
DAZ

Re: NYSDEC Permit No. 2-6299-00027/00033  
Battery Park City Pile Remediation  
New York, NY  
**ECL Article 25 -Tidal Wetlands**  
**ECL Article 15 - Protection of Waters**  
**6NYCRR Part 608 – Water Quality Certification**  
**NOTICE OF PERMIT ISSUANCE**

Dear Mr. Thorvaldsen:

Enclosed is your permit. Please read it carefully. You are required to comply with all conditions of the permit.

Please note that Natural Resources Condition 3 of the permit requires submittal of the attached "Notice of Intent to Commence Work" at least 5 days prior to the start of the permitted activity. Also, please note that Natural Resources Condition 5 of the permit requires submittal of the attached "Notice of Completion of Work" within 10 days of the completion of work.

If you have any technical questions please contact the Division of Marine Resources at (718) 482-6464. If you have any administrative questions please contact me at (718) 482-4841.

Sincerely,

DJ Klaczko  
Environmental Analyst



Department of  
Environmental  
Conservation



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

**Permittee and Facility Information**

**Permit Issued To:**  
BATTERY PARK CITY AUTHORITY  
FL 24

1 WORLD FINANCIAL CTR  
NEW YORK, NY 10281  
(212) 417-2000

**Facility:**  
BATTERY PARK CITY  
WEST ST - W SIDE - CHAMBERS ST TO  
BATTERY PL  
NEW YORK, NY

**Facility Location:** in NEW YORK COUNTY **Village:** Manhattan  
**Facility Principal Reference Point:** NYTM-E: 583.006 NYTM-N: 4506.765  
Latitude: 40°42'27.4" Longitude: 74°01'02.5"

**Project Location:** Battery Park Block 16 Lot 3

**Authorized Activity:** Repairs to Battery Park Esplanade concrete piles with pile jackets and wraps.

**Permit Authorizations**

**Tidal Wetlands - Under Article 25**

Permit ID 2-6299-00027/00033

New Permit

Effective Date: 4/24/2018

Expiration Date: 12/31/2023

**Water Quality Certification - Under Section 401 - Clean Water Act**

Permit ID 2-6299-00027/00034

New Permit

Effective Date: 4/24/2018

Expiration Date: 12/31/2023

**Excavation & Fill in Navigable Waters - Under Article 15, Title 5**

Permit ID 2-6299-00027/00035

New Permit

Effective Date: 4/24/2018

Expiration Date: 12/31/2023

**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.**

Permit Administrator: STEPHEN A WATTS, Regional Permit Administrator  
Address: NYSDEC Region 2 Headquarters  
47-40 21st St  
Long Island City, NY 11101 -5401

Authorized Signature: \_\_\_\_\_

Date 04/24/2018



## Permit Components

NATURAL RESOURCE PERMIT CONDITIONS

WATER QUALITY CERTIFICATION SPECIFIC CONDITION

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

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

**1. 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 entities described and cited in Natural Resources permit condition 2..

**2. Conformance with Plans - Addenda** All activities authorized by this permit must be in strict conformance with the following approved plans and/or submissions made as part of the permit application unless specifically authorized herein:

Project Plans titled "Battery Park City Esplanade Repairs," Sheets 1-8 of 8, prepared by McLaren Engineering Group, dated March 30, 2018 and received by NYSDEC on April 2, 2018.

**3. Notice of Intent to Commence Work** At least five (5) days prior to the start of work. Permittee must complete and submit the attached "Notice of Intent to Commence Work" form to the NYSDEC Division of Marine Resources, 47-40 21st Street, Long Island City, New York 11101.

**4. Post Sign and Permit** The NYSDEC permit and permit sign must be conspicuously posted in a publically accessible location at the project site. They must be visible, legible and protected from the elements at all times.

**5. Notice of Completion of Work** Within ten (10) days of the completion of work, Permittee must complete and submit the attached Notice of Completion of Work form to NYSDEC Division of Marine Resources, 47-40 21st Street, Long Island City, New York 11101.

**6. Minimize Adverse Impacts to Wetlands, Wildlife, Water** All work must be performed in a manner which minimizes adverse impacts to wetlands, wildlife, water quality, and natural resources.

**7. Best Management Practices** Best management practices will be employed to prevent the loss of construction materials, debris and sediments from entering the wetlands or waterways. Such practices may include, but are not limited to construction fencing, staked hay bales, silt fencing, floating platforms, netting, and containment booms.



**8. Excavation by Hand Removal Only** All excavation and backfilling required to perform the pile jacketing/encasement must be accomplished only by hand unless specifically authorized by NYSDEC.

**9. Demolition and Construction Debris** Should any demolition or construction debris fall into the waterway or enter the tidal wetlands, it must be removed immediately.

**10. Disposal of Demolition and Construction Debris** All demolition and construction debris must be properly disposed of at a licensed facility.

**11. Concrete or Leachate Must Not Escape** During construction, concrete or leachate will not escape or be discharged, nor will washings from transit mix trucks, mixers, or other devices enter any water body, including wetlands or protected buffer areas.

**12. No Equipment Below High Water** Equipment operation below apparent high water is strictly prohibited.

**13. Prior Approval of Changes** If the Permittee desires to make any changes in construction techniques, species to be planted, the site plan, any mitigation, scheduling or staging of construction, or any other aspect of this project, the Permittee shall submit a written request to the Regional Permit Administrator to make such proposed changes and shall not make such changes unless authorized in writing by the Department.

**14. Failure to Meet Permit Conditions** Failure of the Permittee to meet all the conditions of this permit is grounds for an order to immediately cease the permitted activity at the project site.

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

**16. 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.

**17. 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.

**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. 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.

### **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.

### **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  
NYSDEC Region 2 Headquarters  
47-40 21st St  
Long Island City, NY 11101 -5401

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

## NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

### **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.

## NOTICE OF COMPLETION OF WORK

Date: \_\_\_\_\_

NYSDEC Natural Resources  
Attn. Natural Resources Supervisor  
N.Y.S.D.E.C Region 2 Office  
47-40 21st Street  
Long Island City, N.Y. 11101

Re: NYSDEC Permit No. 2-6299-00027/00033  
Battery Park City Pile Remediation  
New York, NY

Dear NYSDEC Natural Resources Supervisor:

In accordance with Natural Resource Condition 5 of the referenced permit, I hereby serve notice that the work allowed by the above referenced permit has been completed as of \_\_\_\_\_, 20\_\_\_\_, consistent with the requirements of the above referenced permit.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Signature of Contractor

\_\_\_\_\_  
Name of Permittee (please print)

\_\_\_\_\_  
Name of Contractor (please print)

\_\_\_\_\_  
Street Address of Contractor

\_\_\_\_\_  
City, State, & Zip Code of Contractor

\_\_\_\_\_  
Telephone Number of Contractor

cc: Environmental Permits  
Marine Resources



**NOTICE OF INTENT TO COMMENCE WORK**

**Date:** \_\_\_\_\_

**NYSDEC Natural Resources  
Attn. Habitat Supervisor  
N.Y.S.D.E.C Region 2 Office  
47-40 21st Street  
Long Island City, N.Y. 11101**

**Re: NYSDEC Permit No. 2-6299-00027/00033  
Battery Park City Pile Remediation  
New York, NY**

**Dear NYSDEC Habitat Supervisor:**

**In accordance with Natural Resource Condition 3 of the referenced permit, I hereby serve notice to commence work on \_\_\_\_\_, 20\_\_\_\_.**

**This is also to certify that, having read this entire permit, I am fully aware of and understand the general and natural resource conditions therein, and agree to comply with all such conditions further understand that prior to undertaking any modification to the subject work, I must seek and receive written approval of the NYSDEC Regional Permit Administrator.**

\_\_\_\_\_  
**Signature of Permittee**

\_\_\_\_\_  
**Signature of Contractor**

\_\_\_\_\_  
**Name of Permittee (please print)**

\_\_\_\_\_  
**Name of Contractor (please print)**

\_\_\_\_\_  
**Street Address of Contractor**

\_\_\_\_\_  
**City, State, & Zip Code of Contractor**

\_\_\_\_\_  
**Telephone Number of Contractor**

**WARNING**

**The permittee and his contractor (if any) are required to follow all permit conditions. Violations of the permit may lead to legal action, including the imposition of substantial monetary fines and corrective work.**

**cc: Environmental Permits  
Marine Resources**


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 Departmental conditions on it, contact the Regional Permit Administrator listed below. Please refer to the permit number shown when contacting the DEC.

Permit Number 2-6299-00027/00033  
Expiration Date 12/31/2023

Regional Permit Administrator

  
Stephen A. Watts III  
47-40 21<sup>st</sup> Street  
LIC, NY 11101  
(718) 482-4997

NOTE: This notice is NOT a permit



**DEPARTMENT OF THE ARMY**  
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT  
JACOB K. JAVITS FEDERAL BUILDING  
26 FEDERAL PLAZA  
NEW YORK NEW YORK 10278-0090

REGULATORY BRANCH

JUL 18 2018

SUBJECT: Permit Application File Number NAN-2018-00504-ESW by the Battery Park City Authority for Pile Maintenance in Hudson River at the Battery Park City, Borough of Manhattan, New York County, City of New York, New York

**1. PERMITTEE:**

Hugh L. Carey Battery Park City Authority  
200 Liberty Street, 24th Floor  
New York, New York 10281  
(212) 417-2000

2. On April 12, 2018, the New York District of the U.S. Army Corps of Engineers received a request for Department of the Army authorization from the Battery Park City Authority for the repair of approximately 7,400 linear feet of the esplanade which averages between 20-25 feet wide (approximately 170,200 square feet/3.9-acre) by encasing the severely deteriorated existing 20-inch square pre-cast concrete piles in 38-inch diameter concrete jackets with reinforcing bar and wire mesh. Minimally deteriorated piles will be encased in a 22-inch diameter jacket. The total amount of concrete epoxy grout in all of the pile jackets is approximately 607 cubic yards of discharge in an estimated footprint of 1,535 square feet. The substrate around the base of the pile would be removed by hand in order for the encasement to be buried below the mud line, and replaced to grade once the work on each pile is completed. The temporary sidecast would consist of approximately 2,264 square feet of fill. The regulated activities would be conducted in four phases over a period of four years and is located in the Hudson River at the Battery Park City, Borough of Manhattan, New York County, City of New York, New York.

3. The specific applicant-provided details are as shown on the attached permit drawings titled "Applicant: Battery Park City Authority", dated April 3, 2018, prepared by DKR Shores, Inc.

4. This determination covers only the work described in the submitted material. Any major changes in the project may require additional authorizations from the New York District of the U.S. Army Corps of Engineers.

5. Based on the information submitted to this office and accomplishment of any required notification in accordance with the applicable federal requirements, our review of the subject work indicates that an individual Department of the Army permit is not required. It appears that the activities within the jurisdiction of this office could be accomplished under Department of the Army Nationwide General Permit Number 3 MAINTENANCE, in accordance with Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344, as amended). The nationwide permits are prescribed as a Reissuance of Nationwide Permits in the Federal Register

JUL 18 2018

REGULATORY BRANCH

SUBJECT: Permit Application File Number NAN-2018-00504-ESW by the Battery Park City Authority for Pile Maintenance in Hudson River at the Battery Park City, Borough of Manhattan, New York County, City of New York, New York

-2-

dated January 6, 2017 (82 FR 1860). The subject work may be performed without further authorization from this office provided it complies with Sections A through D, Number 3 MAINTENANCE; New York District regional conditions; the following work-specific Special Conditions listed below; and any applicable regional conditions added by the State of New York.

6. Other than the work-specific Special Conditions listed below, the 2017 nationwide general permits in the State of New York, including their final regional conditions, water quality certifications, and coastal zone concurrence statements are available at:

[www.nan.usace.army.mil/Portals/37/docs/regulatory/publicnotices/Regional%20Gen%20Permit/PN-RB%20NAN%20FinalRegionalConditionsWQC%20CZMforNYdated%2021-MAR-2017.pdf](http://www.nan.usace.army.mil/Portals/37/docs/regulatory/publicnotices/Regional%20Gen%20Permit/PN-RB%20NAN%20FinalRegionalConditionsWQC%20CZMforNYdated%2021-MAR-2017.pdf)

If you require a specific paper copy, please contact our Regulator-of-the-Day at 917-790-8511 to request one be mailed to you. Please be sure to have the above eighteen-character file number readily available when you call.

7. Work-specific Special Conditions:

(A) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

(B) The permittee shall sign and submit the attached compliance certification form to this office **within 30 days of COMPLETION** of the regulated activity authorized by this permit and any mitigation work required by Special Condition.

(C) The permittee, and their agents, shall utilize best management practices to minimize turbidity during all in-water work activities as well as prevent construction materials, including debris from entering the waterway to become drift or pollution hazards.

(D) The permittee shall not conduct in-water work in shortnose sturgeon overwintering grounds from November 1–March 15 of any calendar year.

JUL 18 2018

SUBJECT: Permit Application File Number NAN-2018-00504-ESW by the Battery Park City Authority for Pile Maintenance in Hudson River at the Battery Park City, Borough of Manhattan, New York County, City of New York, New York

-3-

commencement of the authorized work you may request an approved JD, which may be appealed, by contacting the New York District, U.S. Army Corps of Engineers for further instruction. To assist you in this decision and address any questions you may have on the differences between preliminary and approved jurisdictional determinations, please review U.S. Army Corps of Engineers Regulatory Guidance Letter No. 16-01, which can be found at:

[http://www.usace.army.mil/Portals/2/docs/civilworks/RGLS/rgl\\_6-01\\_app1-2.pdf](http://www.usace.army.mil/Portals/2/docs/civilworks/RGLS/rgl_6-01_app1-2.pdf)

9. This verification is valid until March 18, 2022, unless the nationwide permit is modified, reissued, or revoked. This verification will remain valid until March 18, 2022, if the activity complies with the terms of any subsequent modifications of the nationwide permit authorization. If the nationwide permits are suspended, revoked, or modified in such a way that the activity would no longer comply with the terms and conditions of a nationwide permit, and the proposed activity has commenced, or is under contract to commence, the permittee shall have twelve (12) months from the date of such action to complete the activity.

10. In order for us to better serve you and others, please complete our Customer Service Survey located at:

<http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>

11. Any inquiries should be directed to our Regulator-of-the-Day at 917-790-8511. Please be sure to have the above eighteen-character file number readily available when you call.

  
Ronald R. Pinzon  
Chief, Eastern Section

Enclosures (3)

1. Dated Permit Drawings
2. Completion Form
3. Preliminary JD

Copies furnished:

McLaren Engineering Group  
Attn: Craig P. Plate  
Attn: Kaitlyn McGrath  
100 Snake Hill Road  
West Nyack, New York 10994

**NATIONWIDE GENERAL PERMIT**  
**COMPLIANCE CERTIFICATION**  
**AND REPORT FORM**

Permit File Number: NAN-2018-00504-ESW

Permittee: Battery Park City Authority

Location: 40.71344167, -74.0162084 Battery Park City, Borough of Manhattan, New York County, City of New York, New York

Date Permit Letter Issued: JUL 18 2018

Within 30 days of the completion of the activity authorized by this nationwide general permit and any mitigation required in the verification letter, please sign this certification and return it to the address at the bottom of this form.

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the permit's terms and conditions you are subject to permit suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced nationwide general permit has been completed in accordance with the terms and conditions of said permit, and required mitigation was completed in accordance with the permit conditions.

\_\_\_\_\_  
Signature of Permittee

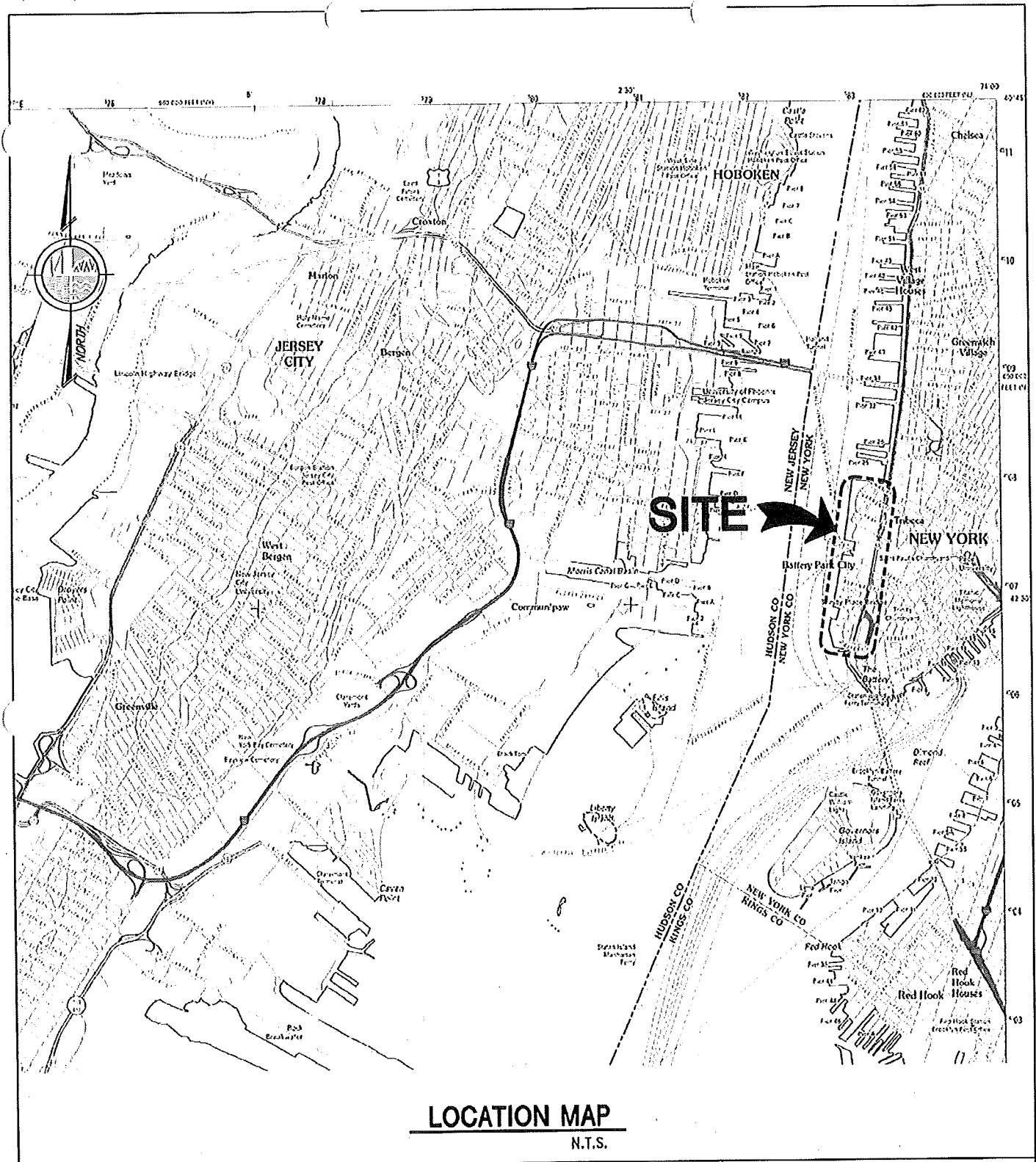
\_\_\_\_\_  
Date

FOLD THIS FORM INTO THIRDS, WITH THE BOTTOM THIRD FACING OUTWARD.  
TAPE IT TOGETHER AND MAIL TO THE ADDRESS BELOW OR FAX (212) 264-4260.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PLACE  
STAMP  
HERE

DEPARTMENT OF THE ARMY  
NEW YORK DISTRICT CORPS OF ENGINEERS  
JACOB K. JAVITS FEDERAL BUILDING  
ATTN: CENAN-OP-RE  
NEW YORK, NEW YORK 10278-0090



# LOCATION MAP

N.T.S.

PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

BATTERY PARK CITY ESPLANADE  
PILE REMEDIATION PROGRAM  
APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

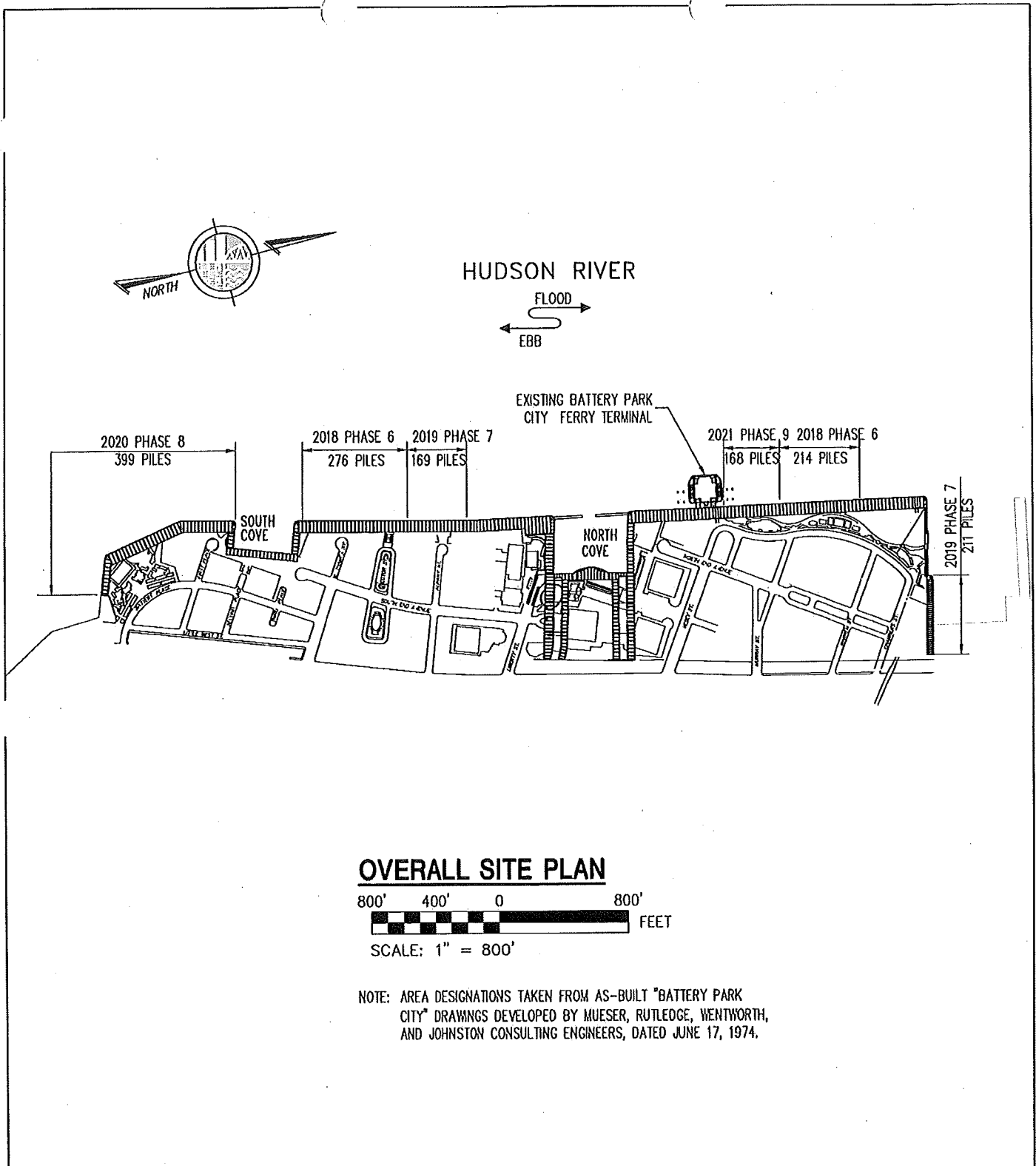
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

## LOCATION MAP

IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

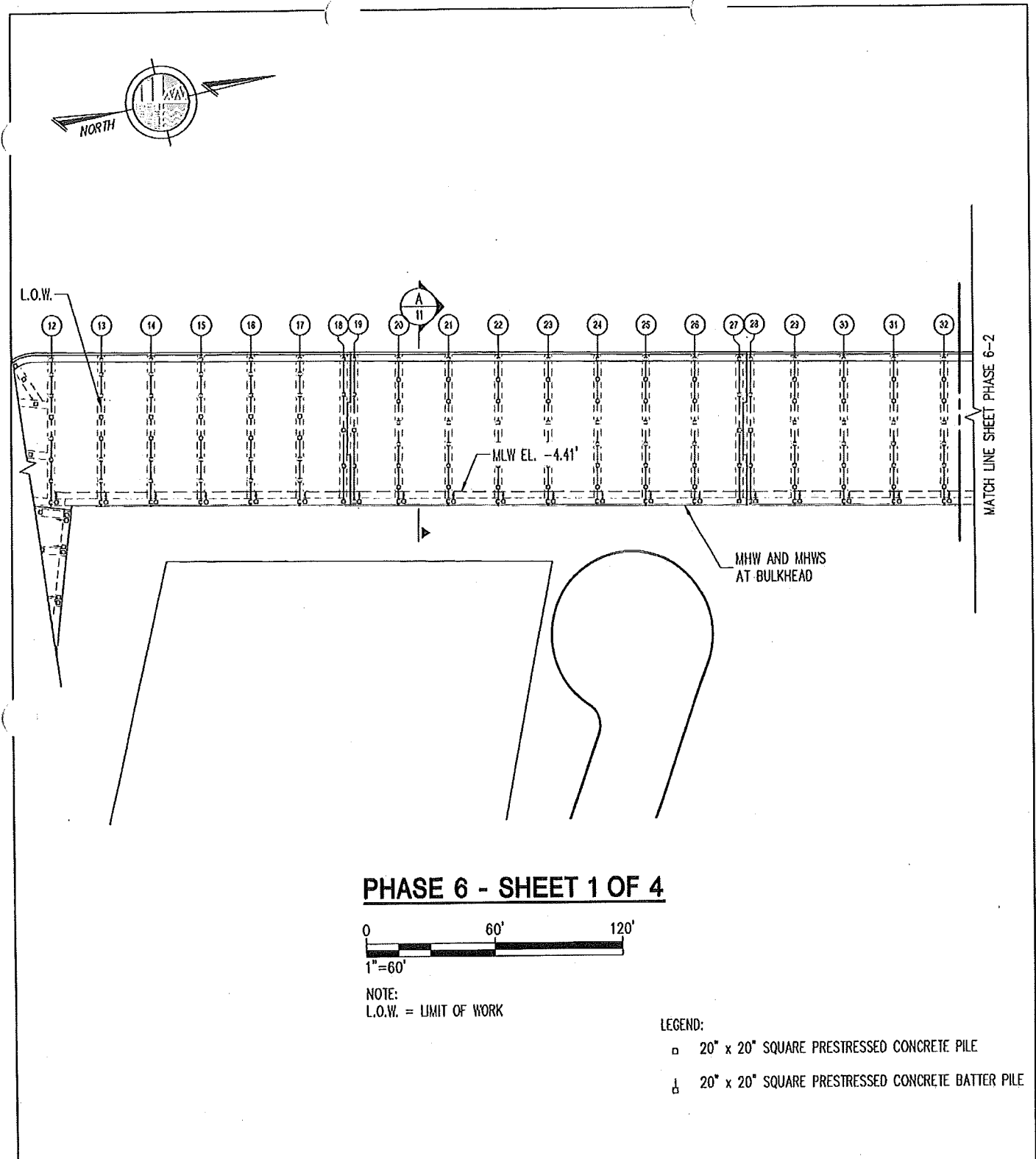
SHT 1 OF 15 03/30/2018

JUL 18 2018

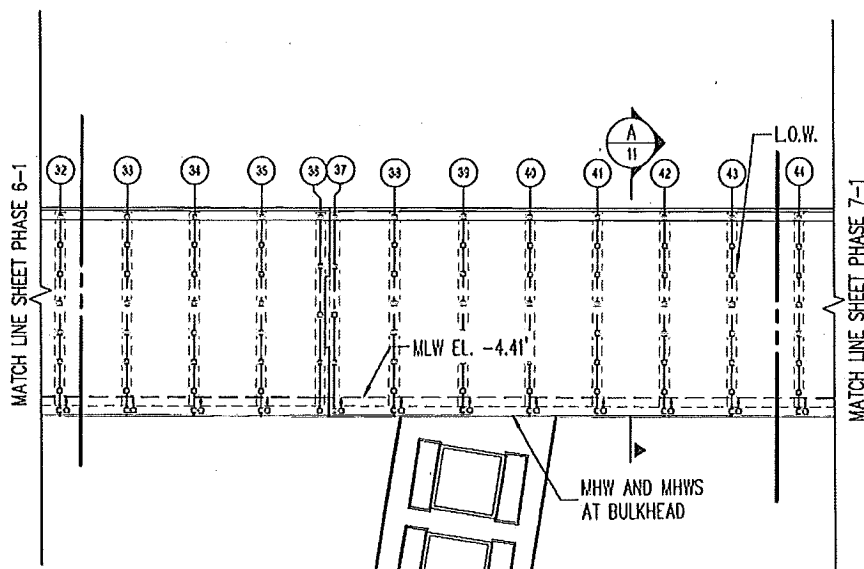
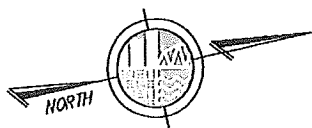


<p>PURPOSE: ESPLANADE REPAIRS</p> <p>DATUM: MHD</p> <p>ADJACENT OWNERS: SEE ATTACHED LIST.</p>	<p><b>BATTERY PARK CITY ESPLANADE PILE REMEDIATION PROGRAM</b></p> <p>APPLICANT: HUGH L. CAREY BATTERY PARK CITY AUTHORITY 200 LIBERTY ST., 24TH FLOOR NEW YORK, N.Y. 10281</p> <p>AGENT: M.G. McLAREN, P.C. 100 SNAKE HILL ROAD WEST NYACK, N.Y. 10994</p>	<p><b>OVERALL SITE PLAN</b></p> <p>IN: MANHATTAN, NY AT: BATTERY PARK CITY COUNTY OF: NEW YORK STATE: NY</p> <p>SHT <b>2</b> OF <b>15</b> 03/30/2018</p>
--	---	--

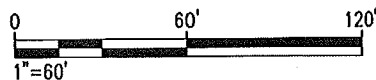




<p>PURPOSE: ESPLANADE REPAIRS</p> <p>DATUM: MHD</p> <p>DJACENT OWNERS: SEE ATTACHED LIST.</p>	<p>BATTERY PARK CITY ESPLANADE PILE REMEDIATION PROGRAM</p> <p>APPLICANT: HUGH L. CAREY BATTERY PARK CITY AUTHORITY 200 LIBERTY ST., 24TH FLOOR NEW YORK, N.Y. 10281</p> <p>AGENT: M.G. McLAREN, P.C. 100 SNAKE HILL ROAD WEST NYACK, N.Y. 10994</p>	<p>2018 PHASE 6 SHEET 1 OF 4</p> <p>IN: MANHATTAN, NY AT: BATTERY PARK CITY COUNTY OF: NEW YORK STATE: NY</p> <p>SHT <b>3</b> OF <b>15</b> 03/30/2018</p>
---	--	---



### PHASE 6 - SHEET 2 OF 4



NOTE:  
L.O.W. = LIMIT OF WORK

LEGEND:

- 20" x 20" SQUARE PRESTRESSED CONCRETE PILE
- ⌏ 20" x 20" SQUARE PRESTRESSED CONCRETE BATTER PILE

PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

### BATTERY PARK CITY ESPLANADE PILE REMEDIATION PROGRAM

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

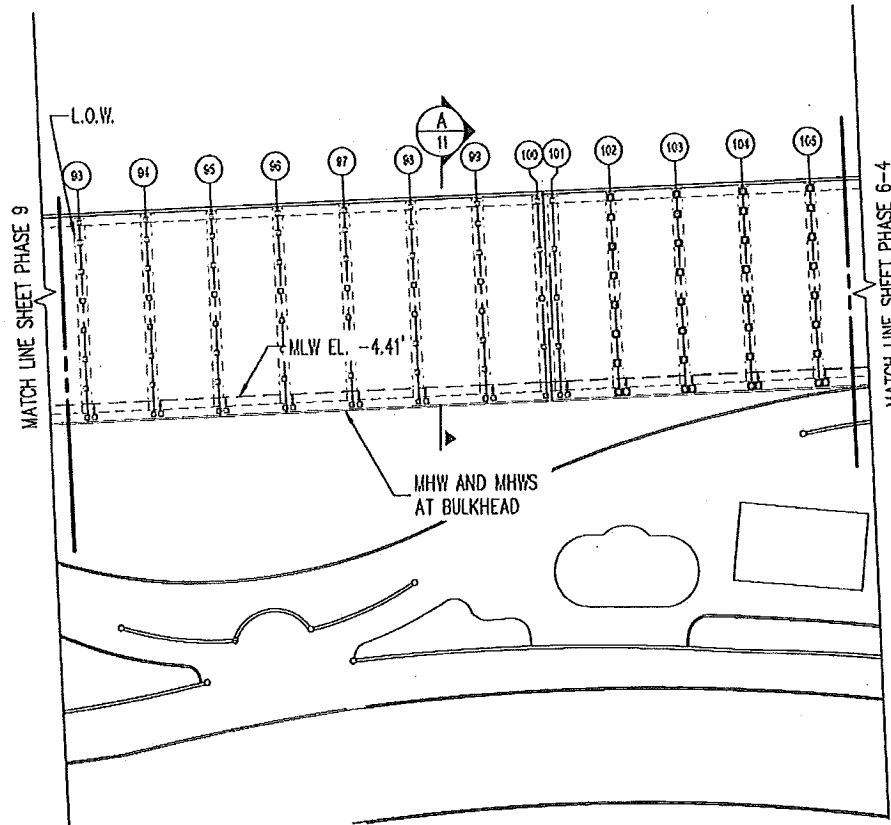
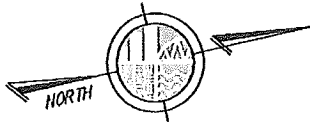
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

### 2018 PHASE 6 SHEET 2 OF 4

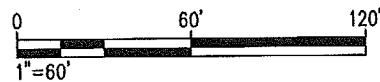
IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

SHT 4 OF 15 03/30/2018

JUL 18 2018



**PHASE 6 - SHEET 3 OF 4**



NOTE:  
L.O.W. = LIMIT OF WORK

LEGEND:

- 20" x 20" SQUARE PRESTRESSED CONCRETE PILE
- ⌏ 20" x 20" SQUARE PRESTRESSED CONCRETE BATTER PILE

PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

**BATTERY PARK CITY ESPLANADE  
PILE REMEDIATION PROGRAM**

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

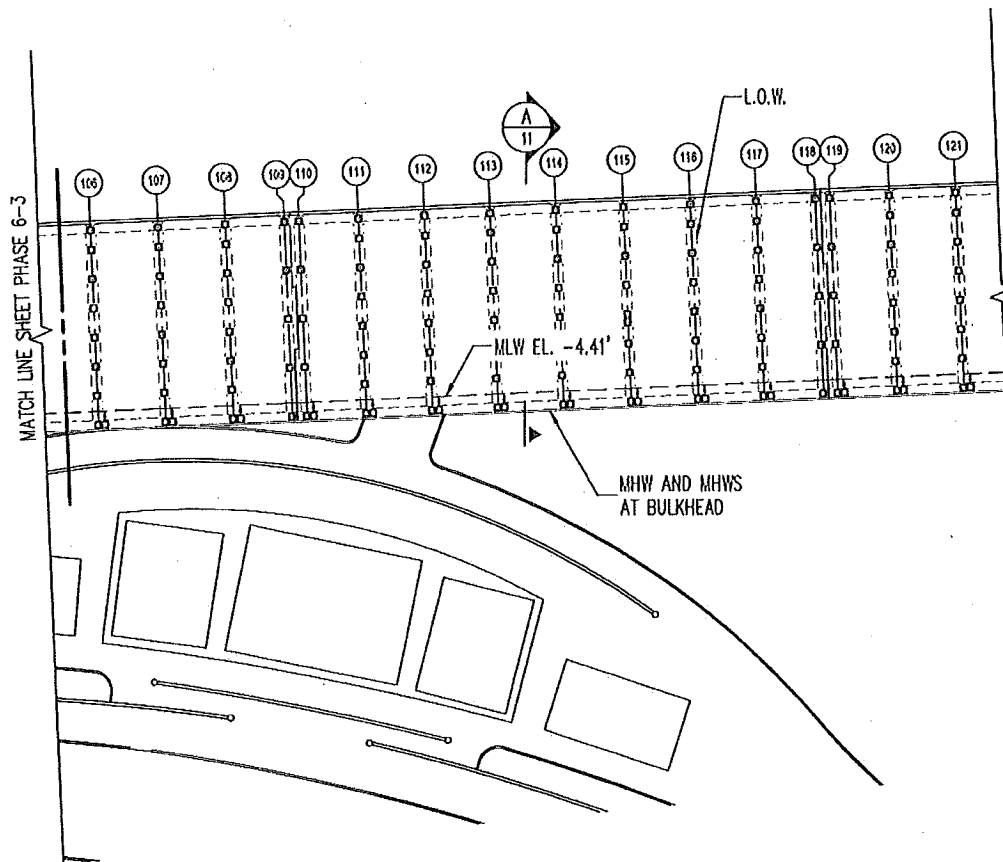
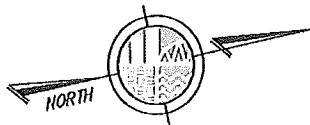
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

**2018 PHASE 6  
SHEET 3 OF 4**

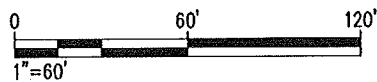
IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

SHT **5** OF **15** 03/30/2018

**JUL 18 2018**



### PHASE 6 - SHEET 4 OF 4



NOTE:  
L.O.W. = LIMIT OF WORK

LEGEND:

- 20" x 20" SQUARE PRESTRESSED CONCRETE PILE
- ⌋ 20" x 20" SQUARE PRESTRESSED CONCRETE BATTER PILE

PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

### BATTERY PARK CITY ESPLANADE PILE REMEDIATION PROGRAM

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

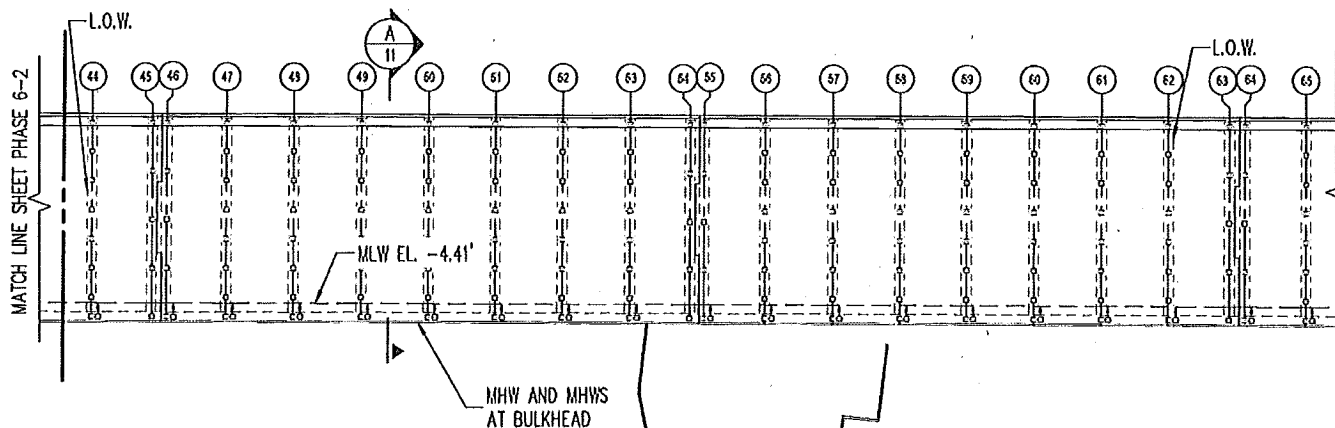
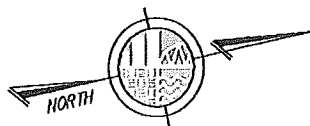
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

2018 PHASE 6  
SHEET 4 OF 4

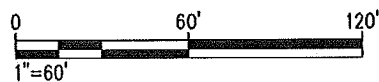
IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

SHT 6 OF 15 03/30/2018

JUL 18 2018



### PHASE 7 - SHEET 1 OF 2



NOTE:  
L.O.W. = LIMIT OF WORK

LEGEND:

- 20" x 20" SQUARE PRESTRESSED CONCRETE PILE
- ⏏ 20" x 20" SQUARE PRESTRESSED CONCRETE BATTER PILE

PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

DJACENT OWNERS:  
SEE ATTACHED LIST.

### BATTERY PARK CITY ESPLANADE PILE REMEDIATION PROGRAM

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

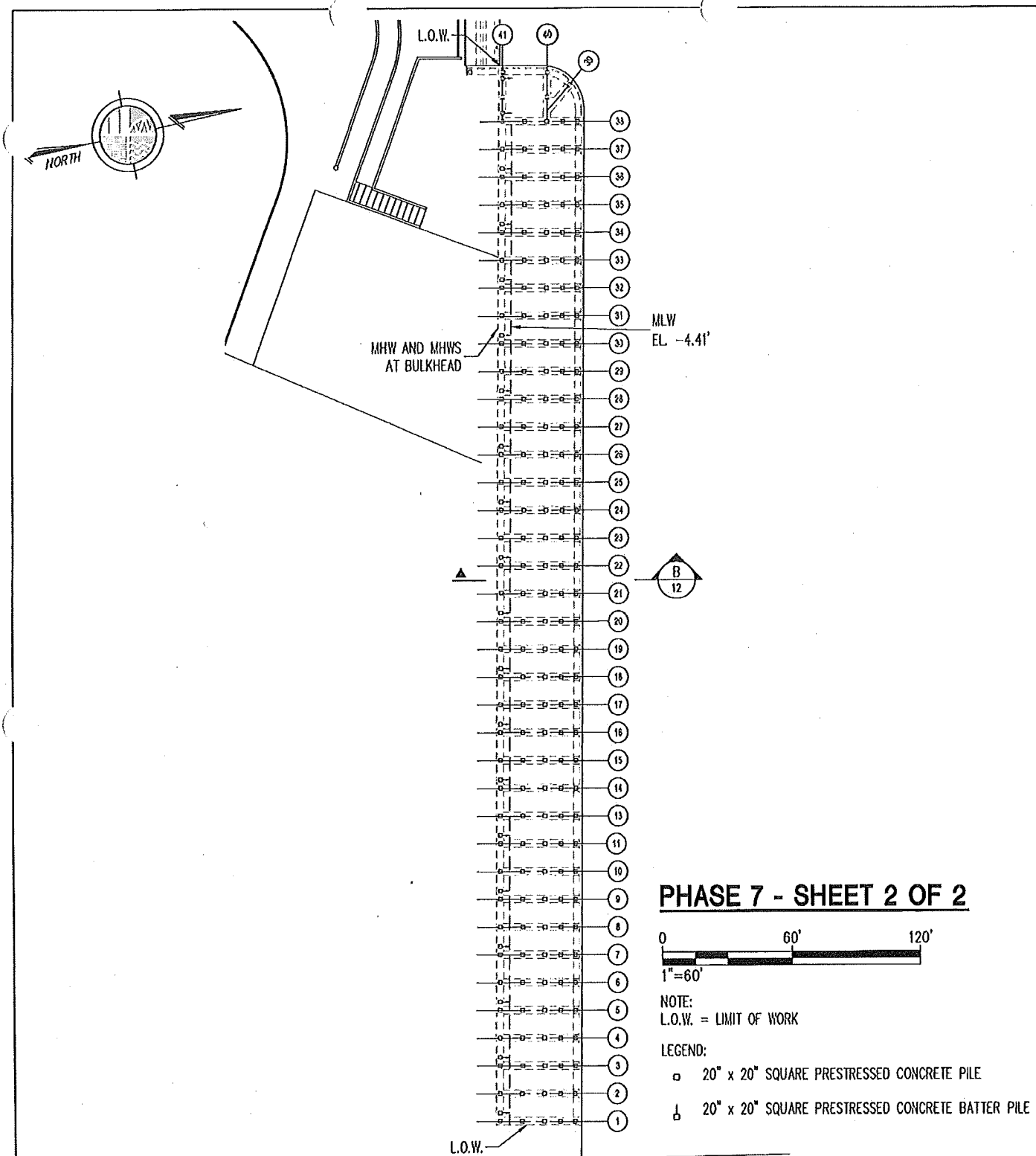
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

2019 PHASE 7  
SHEET 1 OF 2

IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

SHT 7 OF 15 03/30/2018

JUL 18 2018



PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

**BATTERY PARK CITY ESPLANADE  
PILE REMEDIATION PROGRAM**

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

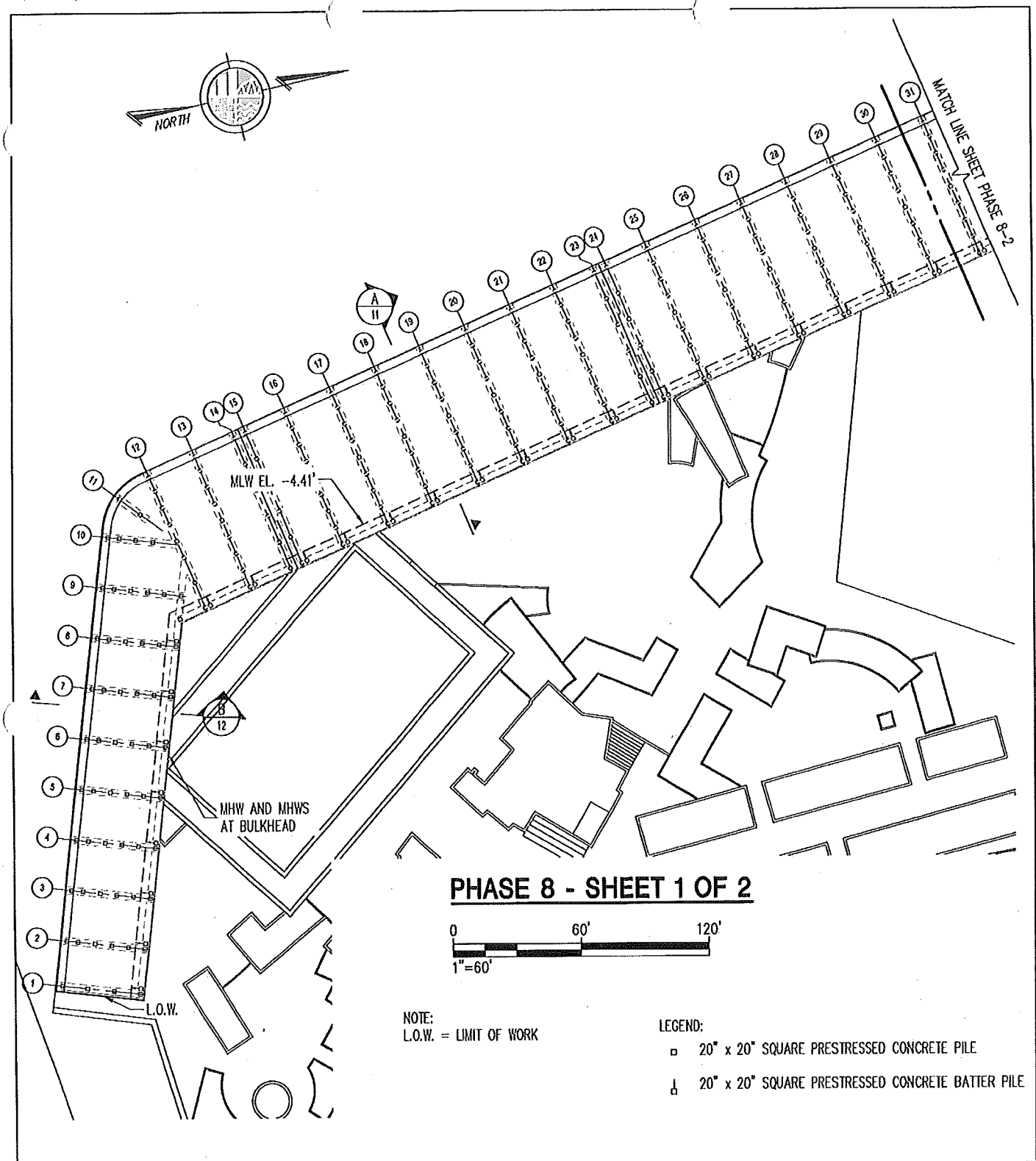
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

2019 PHASE 7  
SHEET 2 OF 2

IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

SHT 8 OF 15 03/30/2018

JUL 18 2018



PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

**BATTERY PARK CITY ESPLANADE  
PILE REMEDIATION PROGRAM**

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

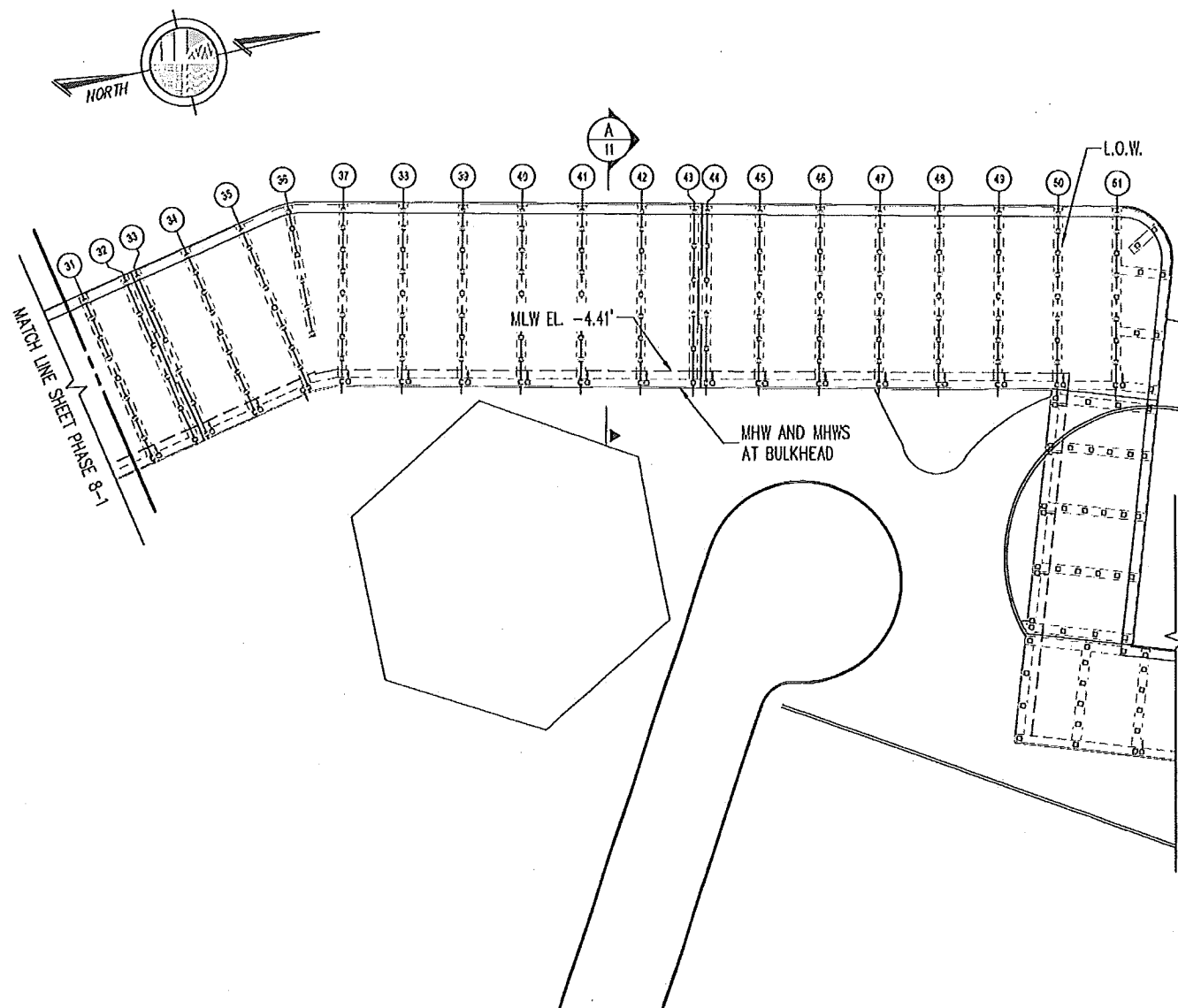
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

**2020 PHASE 8  
SHEET 1 OF 2**

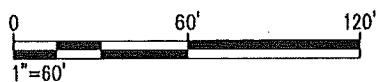
IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

SHT 1 OF 15 03/30/2018

**JUL 18 2018**



## PHASE 8 - SHEET 2 OF 2



NOTE:  
L.O.W. = LIMIT OF WORK

### LEGEND:

- 20" x 20" SQUARE PRESTRESSED CONCRETE PILE
- ⌏ 20" x 20" SQUARE PRESTRESSED CONCRETE BATTER PILE

PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

### BATTERY PARK CITY ESPLANADE PILE REMEDIATION PROGRAM

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

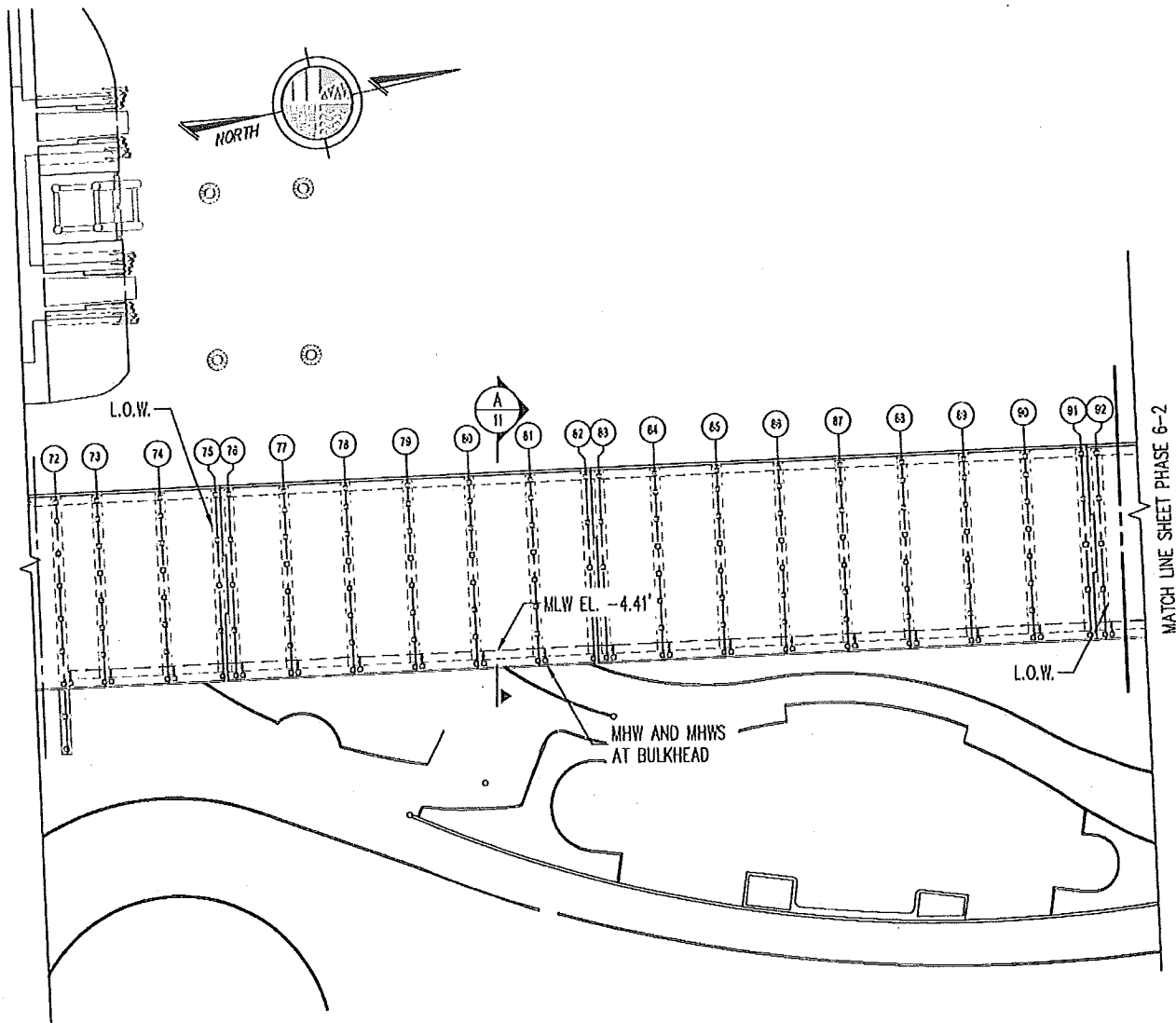
### 2020 PHASE 8 SHEET 1 OF 2

IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

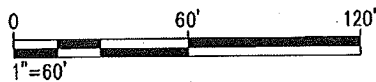
SHT 10 OF 15 03/30/2018

JUL 18 2018





### PHASE 9



NOTE:  
L.O.W. = LIMIT OF WORK

#### LEGEND:

- 20" x 20" SQUARE PRESTRESSED CONCRETE PILE
- ▤ 20" x 20" SQUARE PRESTRESSED CONCRETE BATTER PILE

PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

### BATTERY PARK CITY ESPLANADE PILE REMEDIATION PROGRAM

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

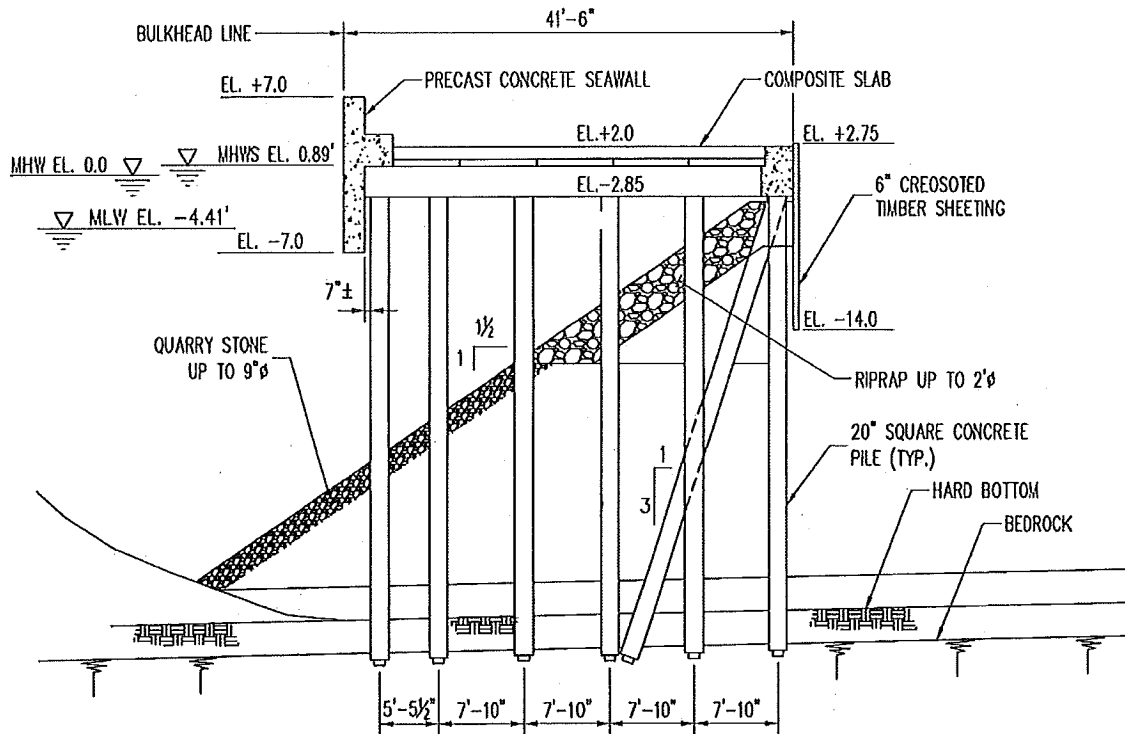
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

2021 PHASE 9

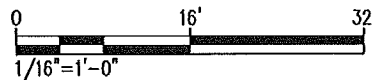
IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

SHT 11 OF 15 03/30/2018

JUL 18 2018



**B TYPICAL EXISTING ESPLANADE SECTION**



**NOTE:**  
SUBSURFACE PROFILE TAKEN FROM AS-BUILT "BATTERY PARK CITY"  
DRAWINGS DEVELOPED BY MUESER, RUTLEDGE, WENTWORTH, AND JOHNSTON  
CONSULTING ENGINEERS, DATED JUNE 17, 1974.

PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

**BATTERY PARK CITY ESPLANADE  
PILE REMEDIATION PROGRAM**

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

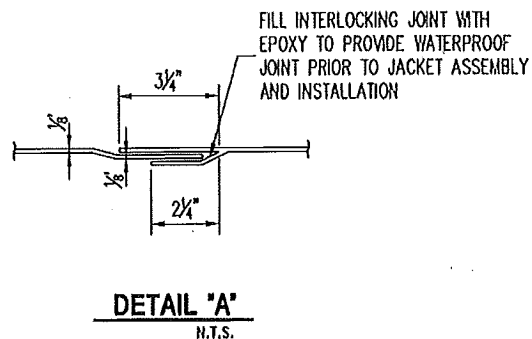
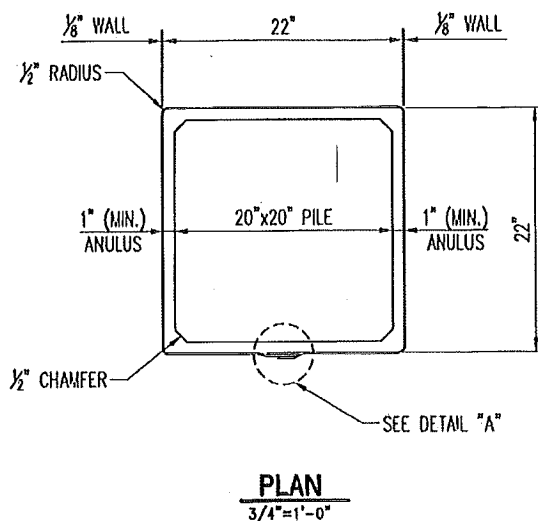
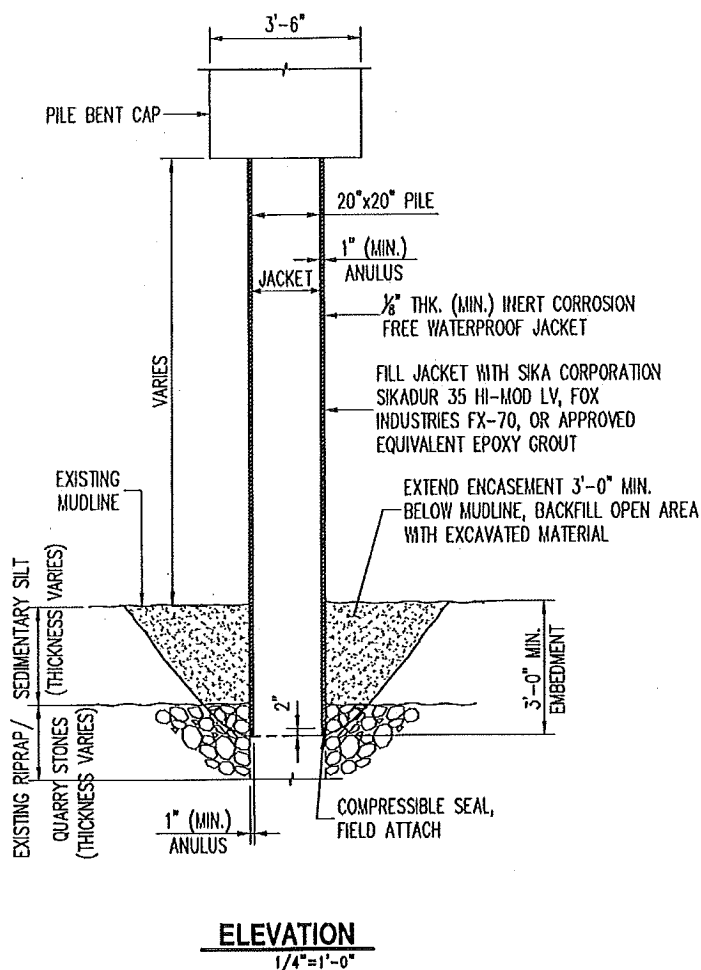
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

**TYPICAL EXISTING  
ESPLANADE SECTIONS 2**

IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

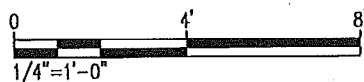
SHT 13 OF 15 03/30/2018

**JUL 18 2018**



## EXPOXY GROUT PILE PROTECTION DETAILS

(SQUARE JACKET)



PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

BATTERY PARK CITY ESPLANADE  
PILE REMEDIATION PROGRAM

APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

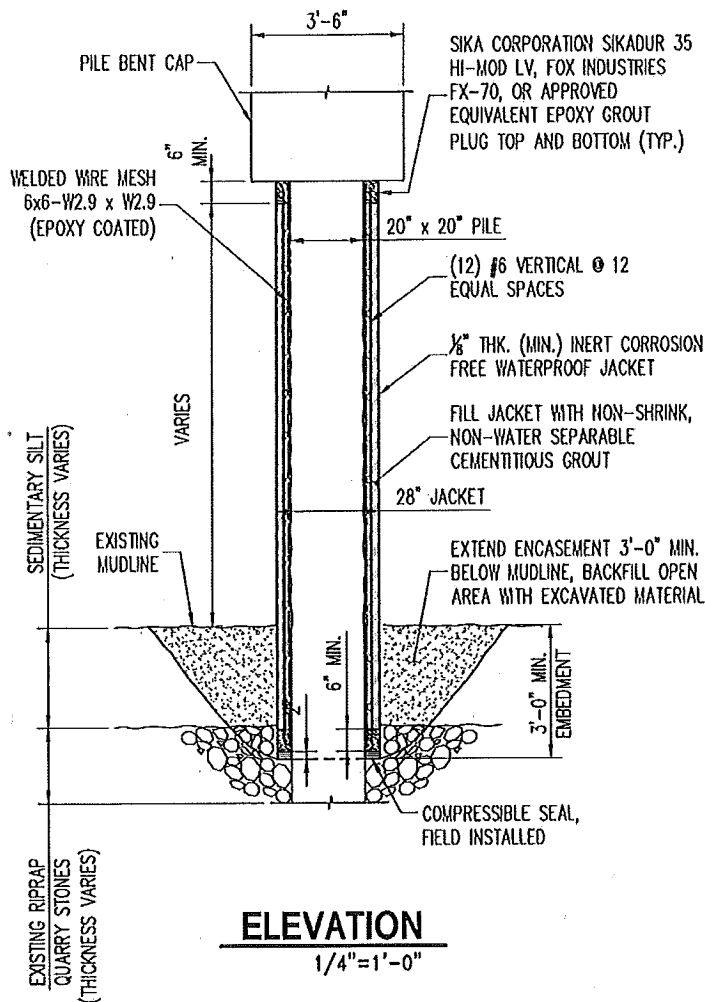
AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

EPOXY GROUT  
PILE PROTECTION

IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

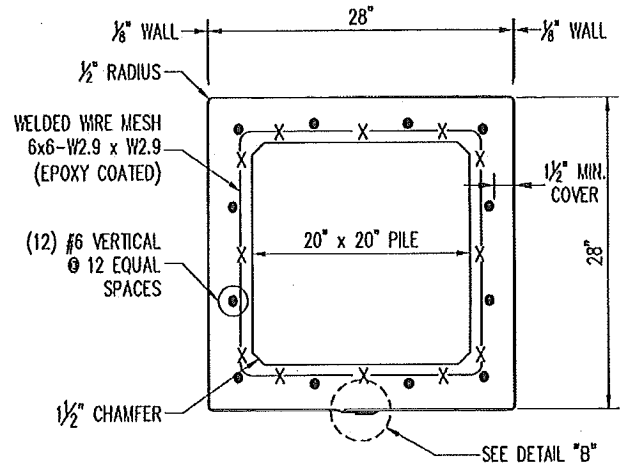
SHT 14 OF 15 03/30/2018

JUL 18 2018



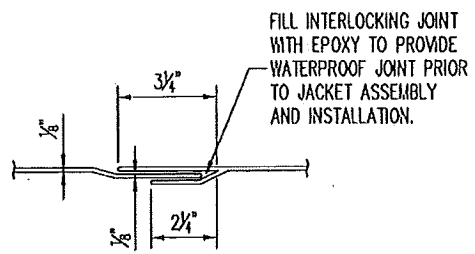
**ELEVATION**

1/4" = 1'-0"



**PLAN**

3/4" = 1'-0"

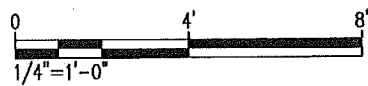


**DETAIL 'B'**

N.T.S.

**CONCRETE PILE STRUCTURAL REPAIR DETAILS**

(SQUARE JACKET)



PURPOSE: ESPLANADE REPAIRS

DATUM: MHD

ADJACENT OWNERS:  
SEE ATTACHED LIST.

BATTERY PARK CITY ESPLANADE  
PILE REMEDIATION PROGRAM  
APPLICANT: HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
200 LIBERTY ST., 24TH FLOOR  
NEW YORK, N.Y. 10281

AGENT: M.G. McLAREN, P.C.  
100 SNAKE HILL ROAD  
WEST NYACK, N.Y. 10994

CONCRETE PILE  
STRUCTURAL REPAIR  
DETAIL

IN: MANHATTAN, NY  
AT: BATTERY PARK CITY  
COUNTY OF: NEW YORK  
STATE: NY

SHT 15 OF 15 03/30/2018

JUL 18 2018

**Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM**

**BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR PJD:** July 16, 2018

**B. NAME AND ADDRESS OF PERSON REQUESTING PJD:** BPCA 200 Liberty Street, 24th Floor New York, New York 10281

**C. DISTRICT OFFICE, FILE NAME, AND NUMBER:** NY District, Battery Park City Authority, NAN-2018-00504-ESW

**D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:**

**(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)**

State: New York County/parish/borough: Manhattan City: New York

Center coordinates of site (lat/long in degree decimal format):

Lat.: 40.71344167 Long.: -74.0162084

Universal Transverse Mercator:

Name of nearest waterbody: Hudson River

**E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**

☒ Office (Desk) Determination. Date: July 16, 2018

☐ Field Determination. Date(s):

**TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.**

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
1	40.71344167	-74.0162084	2 acres	non-wetland waters	10/404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "*may be*" waters of the U.S. and/or that there "*may be*" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

**SUPPORTING DATA. Data reviewed for PJD (check all that apply)**

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- ☒ Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:  
Map: McLaren Engineering Group, dated March 30, 2018
- ☐ Data sheets prepared/submitted by or on behalf of the PJD requestor.  
☐ Office concurs with data sheets/delineation report.  
☐ Office does not concur with data sheets/delineation report. Rationale: \_\_\_\_\_
- ☐ Data sheets prepared by the Corps: \_\_\_\_\_
- ☐ Corps navigable waters' study: \_\_\_\_\_
- ☐ U.S. Geological Survey Hydrologic Atlas: \_\_\_\_\_  
☐ USGS NHD data.  
☐ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite scale & quad name: \_\_\_\_\_
- ☐ Natural Resources Conservation Service Soil Survey. Citation: \_\_\_\_\_
- ☐ National wetlands inventory map(s). Cite name: \_\_\_\_\_
- ☐ State/local wetland inventory map(s): \_\_\_\_\_
- ☐ FEMA/FIRM maps: \_\_\_\_\_
- ☐ 100-year Floodplain Elevation is: \_\_\_\_\_ (National Geodetic Vertical Datum of 1929)
- ☒ Photographs: ☒ Aerial (Name & Date): \_\_\_\_\_  
or ☒ Other (Name & Date): Existing conditions, April 2018
- ☐ Previous determination(s). File no. and date of response letter: \_\_\_\_\_
- ☒ Other information (please specify): Environmental Questionnaire, FCAF

**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

REGAN.AMANDA.MICHELLE  
LE.1384973287

Signature and date of  
Regulatory staff member  
completing PJD

Signature and date of  
person requesting PJD  
(REQUIRED, unless obtaining  
the signature is impracticable)<sup>1</sup>

<sup>1</sup> Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

**EXHIBIT I**

**ACKNOWLEDGEMENT OF ADDENDA**

**RFP TITLE:** \_\_\_\_\_

<b>Complete Part I <u>or</u> Part II, whichever is applicable, and sign your name in Part III.</b>
--

**Part I**

Listed below are the dates of issue for each Addendum received in connection with this RFP:

Addendum # 1, Dated \_\_\_\_\_, \_\_\_\_

Addendum # 2, Dated \_\_\_\_\_, \_\_\_\_

Addendum # 3, Dated \_\_\_\_\_, \_\_\_\_

Addendum # 4, Dated \_\_\_\_\_, \_\_\_\_

Addendum # 5, Dated \_\_\_\_\_, \_\_\_\_

Addendum # 6, Dated \_\_\_\_\_, \_\_\_\_

**Part II Acknowledgement of No Receipt**

\_\_\_\_\_ No Addendum was received in connection with this RFP

**Part III**

Proposer's Name: \_\_\_\_\_

Proposer's Authorized Representative:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



**EXHIBIT J**

**LIST OF BPCA & BPCPC BOARD MEMBERS AND EMPLOYEES**

**LIST OF BOARD MEMBERS**

George J. Tsunis  
Donald Capoccia  
Lester Petracca  
Louis J. Bevilacqua  
Catherine McVay Hughes  
Martha J. Gallo  
Anthony Kendall

**Employees:**

Betzayda Abreu  
Marcus Billups  
Deborah Addison  
Curtis Afzal  
Elsa Alvarez  
Dana Anders  
Anthony Andriano  
Stephen Arciold  
Sharmila Baichu  
Marie Baptiste  
Brett Beecham  
Freddy Belliard  
Emily Birdseye  
Nidia Blake-Reeder  
LaToya Brooks-Jones  
Maleah Riley-Brown  
Nancy Buivid  
Anthony Buquicchio  
Peter Campbell  
Frances Caperchi  
Monica Centeno  
Carlton Chotalal  
Julissa Cooke  
Sarah Fisher-Curtin  
Gwen Dawson  
Nicole Dawson  
Gilbert DePadua  
Paul Diaz-Larui  
Tonasia Dopson  
Patricia Ehlers  
Abigail Ehrlich  
Maria Ellison  
Richard Faraino  
Anitra Fauntleroy  
Pamela Frederick  
James Gallagher  
Abigail Goldenberg  
Anastasia Gonzalez  
Lenron Goode  
Neresa Gordon  
Sakina Graves  
Ned Greenberg  
Evelyn Gregg  
Jonathan Gross  
Robert Hansen

Nicole Heater  
Sankar Heerach  
St. Clair Henry  
Robert Hinkelman  
Stephanie Huayta  
Craig Hudon  
Jake Jacevicius  
Amy Jogie  
William John  
Jasmine Johnson  
Benjamin Jones  
Roland Kemp  
Ann Ketrang  
Susie Kim  
Karl Koenig  
Leandro Lafuente  
Michael Lamancusa  
Della Lee  
Rene Lopcy  
Janira Lopez  
Robert Maggi  
Evelin Maisonet  
Yasmine Marcus  
Jonathan McCain  
Princess McNeill  
Brian Meikle  
Vanessa Mesine  
Ronnie Mohammed  
Dana Morgera  
Eric Munson  
Lauren Murtha  
Bertha Narcisse  
Jahmeliah Nathan  
Robert Nesmith  
Siu May NG  
Yoshihiro Nishida  
Anne O'Neill  
Maril ortiz  
Bienvenido Osorio  
Kevin O'Toole  
Hector Oyola  
Willem Paillant  
Jonathan Parker  
Nimisha Haribaran Patel  
Gladys Pearlman  
Dahlia Pena

Anthony Peterson  
Bruno Pomponio  
Katherine Powell  
Sandra Power  
Robert Quon  
Jason Rachnowitz  
Madelin Ramirez  
Aline Reynolds  
Chad Rimer  
Manual Rivera  
Anthony Robinson  
Kim Robledo  
Nelson Rogers  
Jose Rosado  
Holly Ross  
Decorey Rowe  
Carlos Santiago  
Nicholas Sbordone  
Jean Schwartz  
Lindsey Senn  
Rekha Sewraj  
Sean Simon  
Kemnarine Singh  
Jack Sklover  
Sarah Smedley  
Bruce Spierer  
Nicole Stallworth-Roper  
Shinay Stewart  
Jerome Sturiano  
Lance Super  
John Tam  
Taujuana Taylor  
Alexis Torres  
Ryan Torres  
Douglas Van Horn  
Noe Velasquez  
Evangelio Villalobos  
Jeffrey Vixamar  
Sharon Wade  
David Wallace  
Annalise Warren  
Eric White  
Angela Whitehead  
Dwight Williams  
Kenneth Windman  
Al Wright  
Jouli Yohannes  
Erin Yokoi

(THIS PAGE LEFT BLANK INTENTIONALLY)