

SPECIFICATIONS

(PROJECT MANUAL)

MEADOWLANDS PUMP STATION GENERATOR REPLACEMENT

Project No.CN-274

**New Jersey Sports & Exposition Authority
Lyndhurst, New Jersey**

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

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**SECTION 00010
ADVERTISEMENT FOR BIDS**

Notice is hereby given that sealed bids will be received by the New Jersey Sports and Exposition Authority (NJSEA), One DeKorte Park Plaza Lyndhurst, NJ, 07071 for the following:

BID CONTRACT:

Meadowlands Pump Station Generator Replacement

THE WORK to be performed under this Contract will consist of but not limited to the demolition/removal of the existing generators and ancillary equipment at the project facility, minimizing effect on the existing system.

BIDS will be received at the above address until **12:00 PM** prevailing time, on **October 13th, 2022**. At the termination of the time for receipt of bids, the bids received will be opened. Bids will **not** be accepted after **12:00 PM** on that day. Due to COVID, bids will not be opened in a public forum.

CONTRACT DOCUMENTS (specifications and plans) will be available for review at the NJSEA website beginning on **September 22nd, 2022, after 2:00 PM**. Copies of the specifications and the plan set may be downloaded from the NJSEA website at www.NJSEA.com.

A mandatory PRE-BID MEETING will be held on **September 29th, 2022, at 10:00 AM** at the NJSEA Meadowlands Pump Station. The pre-bid meeting will consist of a short meeting, followed by a project site visit. All firms who attend the bid walk must submit all questions and concerns by **October 4th, 2022 at 3:00 PM**.

THE CONTRACT TIME is 180 consecutive calendar days from the start date given in the Notice-To-Proceed.

A BID DEPOSIT in the amount of five percent of the bid, but not exceeding \$20,000.00, must accompany the Bid. This in the form may be of a bid bond or certified check.

The Contract Documents contain specific requirements for submission of a bid. In conformance with Public Law 1977, Chapter 33, if the bidder is a corporation or partnership, it shall submit with the bid a statement setting forth the names and addresses of all stockholders/partners who have a ten percent or greater interest in the firm.

The attention of all bidders is particularly called to the New Jersey State requirements regarding the conditions of employment to be observed. All bidders are required to comply with the requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27, regarding Affirmative Action.

In accordance with Public Law 2001, Chapter 134, the NJSEA may only enter into contracts with Bidders who provide proof of valid business registration with the Division of Revenue, in the

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Department of Treasury, of the State of New Jersey. The Contractor, and all subcontractors, must obtain a valid Division of Revenue Business Registration prior to contract award. Registration information can be obtained on the worldwide web at <http://www.state.nj.us/treasury/revenue/busregcert.shtml> or calling 609-292-9292. Online registration is available, and there is no cost to register.

In accordance with the Public Works Contractor Registration Act, the Contractor, all subcontractors, shall provide proof of registration with NJSA 34:11-56.48 et. seq., with the Bid. The registration form can be located online at: http://lwd.dol.state.nj.us/labor/forms_pdfs/lse/lse-2.pdf or by calling 609-292-9464. No Contractor may bid on the Work of this Contract unless he/she is registered pursuant to this act at the time the bid is made. No Contractor shall list a subcontractor in the Bid for the Work of this Contract unless the subcontractor is registered pursuant to this act at the time the bid is made.

In order to insulate the award of state contracts from risk of improper influence, the NJSEA shall only enter into a Contract with a Bidder who complies with Public Law 2005, C. 51 and Executive Order 117. The required forms and instructions are available at the Purchase Bureau website at <http://www.state.nj.us/treasury/purchase/forms.htm> and are also included in the appendix.

The successful bidder is also required to complete Division of Purchase and Property Ownership Disclosure Forms including Disclosure of Investigations, Disclosures of Investment Activities in Iran pursuant to Public Law 2012, c. 25, McBride Principles Form, and Certification of Non-Involvement in Prohibited Activities in Russia or Belarus pursuant to Public Law 2022, c.3.

If accommodations are needed under the Americans with Disabilities Act, contact Ms. Rosanne Sireci, NJSEA Human Resources Manager, at 201-460-3725. If there are any questions regarding these Contract Documents, contact Mr. John Duffy at (201) 842-5115.

Date

NEW JERSEY SPORTS AND EXPOSITION AUTHORITY
Mr. John Duffy, PE
Senior Vice President of Facilities

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**SECTION 00100
INSTRUCTIONS TO BIDDERS**

1.0 DEFINED TERMS:

- 1.1 The terms used in these Instructions to Bidders have the meanings assigned to them in the General Conditions. The term "Successful Bidder" means the lowest, qualified, responsible Bidder to whom the New Jersey Sports & Exposition Authority (NJSEA) makes the award, based on the NJSEA's evaluation of all bids received.

2.0 COPIES OF CONTRACT DOCUMENTS:

- 2.1 Complete sets of the Contract Documents may be obtained as designated in the ADVERTISEMENT FOR BIDS. These Documents shall be used in preparing the bids. The NJSEA assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Contract Documents.

3.0 EXAMINATION OF CONTRACT DOCUMENTS AND WORK SITE:

- 3.1 Before submitting a Bid, each Bidder must: (A) examine the Contract Documents thoroughly; (B) visit the site to familiarize himself with local conditions that may in any manner affect cost, progress, or performance of the work; (C) familiarize himself with Federal, State, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress, or performance of the work; and, (D) study and carefully correlate his own observations with the Contract Documents.
- 3.2 On request, the NJSEA will provide each Bidder access to the site to conduct such investigations and tests, as each Bidder deems necessary for submission of a Bid. At least three days' notice shall be provided. The Bidder may be required to furnish a bond or certified check, payable to the NJSEA, as security to cover possible damages from the above investigations or tests. The Bidder shall fill-in all holes, cleanup, and restore the site to its former state, upon completion of such investigations. The security shall be returned to the Bidder after the site is restored, to the satisfaction of the NJSEA.
- 3.3 The lands upon which the work shall be performed, rights-of-way for access thereto, and other lands designated for use by the Contractor in performing the work, are identified in the Contract Documents.
- 3.4 The submission of a Bid will constitute an incontrovertible representation by the Bidder that it has complied with every requirement of this Article and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the work.
- 3.5 It is further agreed and understood that the successful Bidder will not use any of the information made available to it, or obtained in any examination made by it, as

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a basis or ground of a claim or demand of any nature against the NJSEA, arising from (or by reason of) any variance which may exist between the information offered and the actual materials or structures encountered during the construction work, except as may otherwise be so provided in the Contract Documents.

4.0 INTERPRETATION AND ADDENDA:

- 4.1 Should a Bidder find discrepancies or omissions in any of the Contract Documents, or should it be in doubt as to their meaning, it shall immediately notify the NJSEA in writing, identify the discrepancies or omissions, and request a clarification of the Document's intent. In order to allow the NJSEA sufficient time to address inquiries regarding the Contract Documents, all inquiries must be RECEIVED by the NJSEA no later than seven (7) working days prior to the receipt of bids.
- 4.2 If the question involves equality of use of products or methods it must be accompanied by drawings specifications or other data in sufficient detail to enable the Engineer to determine the equality or suitability of the product or method. In general, the Engineer will neither approve nor disapprove particular products prior to opening of the bids such products will be considered when offered by the Contractor for incorporation into the work.
- 4.3 If the Bidder, prior to submission of its Bid, fails to call to the attention of the Engineer the existence of any such patent ambiguity, inconsistency, error, discrepancy, omission or doubt in the Contract Documents, its Bid will be conclusively presumed to have been based upon an interpretation of such ambiguity or inconsistency or the like, or upon any directions correcting such error, which may have been subsequently given by the Director.
- 4.4 Unless such action shall have been taken by the bidder and approval obtained, he agrees to use the product or method designated or described in the specifications as may be amended by addenda
- 4.5 No interpretation of the Contract Documents will be made orally. All interpretation and supplemental instructions will be in the form of written addenda to the Contract Documents. Addenda will be emailed to those who attend the pre-bid meeting. The NJSEA reserves the sole right to determine whether or not an extension of the bid date is necessary due to the nature of the inquiries.
- 4.6 Receipt of addenda must be acknowledged in the space provided for that purpose on the Bid Forms. Should a Bidder not acknowledge receipt of all addenda, it shall still be required to comply with said addenda.

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- 4.7 All addenda shall become part of the Contract Documents and shall supersede the original Contract Documents. Subsequent addenda shall supersede previously issued addenda.
- 5.0 BID FORM AND SUBMISSION:**
- 5.1 Bids must be submitted on the prescribed form. Telephone or email bids shall not be accepted. An additional unbound copy of the Bid Forms is provided for that purpose with the Contract Documents. Do not use the Bid Forms bound in the Contract Documents.
- 5.2 The Bid Forms must be completed in ink or by computer. The bid price of each item must be stated in words and numerals. All blank spaces must be completed. Ditto marks shall not be used. Discrepancies between words and numerals will be resolved in favor of the words. Discrepancies in extension of unit prices will be resolved in favor of the unit price. Discrepancies between the indicated sum of a column of figures and the correct sum will be resolved in favor of the correct sum.
- 5.3 All unit prices shall be NET and shall include all incidental work normally required in connection with the particular type of work involved, and shall include (but not necessarily be limited to) the following:
- a. All engineering, including detailing and shop drawings.
 - b. All material costs, including an allowance for waste.
 - c. The provision of all necessary accessories.
 - d. All fabrication and shop costs.
 - e. All shop and field labor, including supervision and engineering layout costs.
 - f. All temporary utilities required, including safety precautions.
 - g. All costs of standby trades during or beyond normal working hours.
 - h. All charges for transportation, freight, insurance, taxes, overhead, profit and any other item, as well as bonding costs, if applicable.
 - i. If unit prices are not deemed fair and reasonable by the NJSEA, Bids may be rejected.
- 5.4 Bids by corporations must be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The name and title of the signator, the corporate address, and the state of incorporation shall be typed below the signature.
- 5.5 Bids by partnerships must be executed in the partnership name by a general partner, whose name, title, and official partnership address must be typed below the signature.

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- 5.6 The Bid shall contain an acknowledgment of receipt of all addenda (the numbers of which shall be written on the Bid Forms in the appropriate place).
- 5.7 The address and telephone number, to which communications regarding the Bid will be directed, must also be shown.
- 5.8 Each Bidder who is not chartered under the laws of the State of New Jersey but licensed to do business in the State of New Jersey must submit with its Bid a certificate authorizing it to do business in the State of New Jersey. Also see Article 26 of the INSTRUCTIONS TO BIDDERS.
- 5.9 Each Bidder who is a corporation not organized under the laws of the State of New Jersey or is not authorized to do business in the State of New Jersey must obtain a certificate authorizing it to do business in the State of New Jersey prior to the award of the contract.
- 5.10 Per NJSA 52:25-24.2, if the Bidder is a corporation or partnership, the Bidder shall complete the Section 00424; BIDDERS DISCLOSURE FORM, setting forth the names and addresses of all its owners holding a ten (10) percent or greater interest in the corporation or partnership.
- 5.11 See Article 28 of the INSTRUCTIONS TO BIDDERS for requirements of Executive Order 134.
- 5.12 Any Bid may be withdrawn prior to the time for termination of receipt of bids specified in the ADVERTISEMENT FOR BIDS.
- 5.13 Refer to the SPECIFIC PROJECT REQUIREMENTS for additional information regarding the submission of the Bid.
- 6.0 RECEIPT AND OPENING OF BIDS:**
- 6.1 To be considered valid, Bids must be received prior to the time specified in the ADVERTISEMENT FOR BIDS. All valid Bids will then be opened and read aloud.
- 6.2 All Bidders agree the Bids shall remain open for 90 days after the day of opening, but the NJSEA may at its sole discretion, release any Bid and return the bid security prior to that date.
- 6.3 If, within 24 hours after Bids are opened, any Bidder files a duly signed written notice with NJSEA and promptly thereafter demonstrates to the reasonable satisfaction of NJSEA that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid and the bid security will be returned. Thereafter, that Bidder will be disqualified from further bidding on the Work.

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7.0 BID SECURITY:

- 7.1 Each Bid must be accompanied by a bid security (in the form of a bid bond, issued by a surety licensed in the State of New Jersey; or a certified check, issued by a national bank or trust company) and payable to the order of the NJSEA, in the amount of five percent of the Bid, but not exceeding \$20,000.00. The bid bond must be executed by a company authorized to do business in the State of New Jersey.
- 7.2 The bid security shall be enclosed in the sealed envelope containing the Bid. The bid security will be held by the NJSEA as security for fulfillment of the Bidder's promises set forth in its Bid; that it will not withdraw its Bid while it is being considered, and will execute the Contract and furnish the required bonds, insurance certificates, and other documents, if its Bid is accepted.
- 7.3 The successful Bidder, upon its failure or refusal to execute and deliver the contract, insurance, bonds, and other documents required within the time limits specified, shall forfeit the bid security deposited with its Bid. The forfeited bid security shall be credited towards the damages suffered; which shall be defined as the difference between the amount specified in the successful Bid and the amount for which the NJSEA may contract with another party to perform the work covered by said Bid (if the latter amount be in excess of the former) together with any additional expenses incurred by the NJSEA as a result of such Bidder's failure to enter into the contract; including, but not limited to, the expense for re-advertisement for bids and the processing of such bids. Any amount in excess of such damages shall be returned to the Bidder.
- 7.4 Except as specified above said bid security shall be returned to the Bidder as hereinafter provided. Bid security will be returned to all except the three lowest Bidders within ten working days after the formal opening of Bids, and to the three lowest Bidders within 5 working days after the successful Bidder and the NJSEA have executed the Contract. In the event that the Contract has not been awarded by the NJSEA within 60 days after the opening of the Bids, bid security will be returned promptly upon the demand of any Bidder whose Bid has not been accepted.

8.0 RIGHT TO REJECT, WAIVE, OR ACCEPT:

- 8.1 The NJSEA reserves the right to reject any and/or all non-conforming, non-responsive, or conditional bids; to waive any informalities in any Bid; and to accept any Bid deemed to be in the best interest of the NJSEA.

9.0 EVALUATION OF BIDS:

- 9.1 The NJSEA may make such investigations as it deems necessary to determine the ability of the Bidder to perform the work; and the Bidder shall furnish all such information and data for this purpose as NJSEA may request. The NJSEA reserves

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the right to reject any Bid if the evidence submitted by (or the investigation of) such Bidder fails to satisfy it that such Bidder is properly qualified to carry out the obligations of the Contract, and to complete the work contemplated therein.

- 9.2 Bidders shall be experienced in the kind of work to be performed, have the necessary equipment therefore, and possess sufficient capital to properly execute the work within the time allowed. Bids received from Bidders who have previously failed to complete contracts within the time required, or who have previously performed similar work in an unsatisfactory manner, may be rejected. A Bid may be rejected if the Bidder cannot show that it has the necessary ability, plant, and equipment to commence the work at the time prescribed, and thereafter to prosecute and complete the work at the rate or within the time specified. A Bid may also be rejected if the Bidder is already obligated for the performance of other work that would delay the commencement, prosecution, or completion of the Work.
- 9.3 In evaluating the Bids, the NJSEA shall consider the qualifications of the Bidders, whether or not the Bids comply with the prescribed requirements, and alternates and unit prices if requested in the Bid Forms. The NJSEA reserves the right to choose any of the alternates described in the Bid Forms. Final determination will be at the sole discretion of the NJSEA and will be made after receipt of Bids.
- 9.4 The NJSEA may consider the qualifications and experience of subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work. Operating costs, maintenance considerations, performance data, and guarantees of materials and equipment may also be considered.
- 9.5 The NJSEA reserves the right to reject the Bid of any Bidder who does not pass these investigations to the satisfaction of the NJSEA.
- 9.6 If requested by the NJSEA, the three lowest Bidders shall, within 10 days of such request, submit a financial statement prepared by a Certified Public Accountant.
- 10.0 AWARD AND SIGNING OF THE CONTRACT:**
- 10.1 Award of the Contract, if made, will be to the lowest responsive Bidder whose Bid complies with the requirements stated herein, and whose evaluation indicates to the NJSEA that the award will be in the best interests of the NJSEA.
- 10.2 The NJSEA will award the Contract (or reject all bids) within 60 days from the bid opening date. If the NJSEA requests and the Bidders agree, the Bids may be held open for consideration for such longer time as may be agreed.

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- 10.3 The contract shall be extended at the sole discretion of the NJSEA, as deemed to be in its own best interest.
- 10.4 Upon award of the Contract by the NJSEA, three (3) copies of the Contract will be sent to the Successful Bidder. All three copies shall be signed by the Bidder and returned along with the required bonds, insurance certificate and other documents. After acceptance of these documents, the NJSEA will execute the Contract and deliver two (2) fully signed copies of the Contract to the Contractor.
- 11.0 ESTIMATES OF QUANTITIES OF WORK:**
- 11.1 The NJSEA reserves the right to increase or decrease the quantities of any item of Work as may be deemed necessary, or to leave out any item or to add new items, if and when the necessity arises.
- 12.0 TIME FOR COMPLETING THE WORK:**
- 12.1 The number of days within the work is to be completed (the contract time) is set forth in the Contract.
- 12.2 The attention of the Bidder is directed to the SPECIFIC PROJECT REQUIREMENTS regarding damages for failure to complete the work within the time specified.
- 13.0 SUBSTITUTE MATERIALS AND EQUIPMENT:**
- 13.1 The Contract, if awarded, will be on the basis of the materials and equipment described in the Contract Documents without consideration of possible substitute or "or equal" items. The procedure for submittal of any request for such substitution by the Contractor, and consideration by the NJSEA, is set forth in the GENERAL CONDITIONS.
- 14.0 MATERIALS AND EQUIPMENT:**
- 14.1 All materials and equipment for the work shall be furnished by the Contractor unless otherwise specified. They shall conform to the Contract Documents and shall be from an acceptable source.
- 14.2 Where possible, preference shall be given to New Jersey manufacturers and/or suppliers.
- 14.3 All materials and equipment for the work shall be new, except where the use of existing or previously used materials and equipment is specified.
- 15.0 BONDS AND INSURANCE:**
- 15.1 The attention of the Bidder is directed to the SPECIFIC PROJECT REQUIREMENTS regarding the requirements for bonds and insurance.

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16.0 POWER-OF-ATTORNEY:

- 16.1 Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified copy of their power-of-attorney to sign said bonds.

17.0 ASSIGNMENTS:

- 17.1 The Contractor shall not assign the whole or any part of this Contract without prior written notice to and the written consent of the NJSEA. Money due or to become due the Contractor hereunder shall not be assigned for any purposes whatsoever.

18.0 APPLICABLE LAWS AND SAFETY REGULATIONS:

- 18.1 The attention of the Bidders is especially directed to the provisions of Federal, State, County, and Municipal laws, statutes, and regulations that may apply to the work; including particularly all safety regulations. Such provisions refer to obstruction of streets, open burning, maintaining of signals, storing and handling of explosives, etc. Particular note shall also be taken of those provisions affecting the Contractor or its employees in the prosecution of the work or its relation to any political subdivision or person. All pertinent laws, statutes, ordinances, and regulations shall be obeyed and complied with by the Contractor, its subcontractors, and all of its representatives.
- 18.2 The Contractor shall comply with all provisions of Federal and New Jersey State Labor Laws.
- 18.3 The Contractor shall comply with all current requirements of the Federal Department of Labor, Safety, and Health Regulations for construction promulgated under the Occupational Safety and Health Act of 1970 (PL 91-596); and under Section 107 of the Contract Work Hours and Safety Standards Act (PL 91-54); and the Superfund Amendments and Reauthorization Act of 1986 (PL 99-499).
- 18.4 The Contractor shall also comply with all current requirements for construction promulgated under the New Jersey Department of Labor and Industry's Bureau of Engineering and Safety regulations, Title 12 of the NJAC.
- 18.5 In accordance with generally accepted construction practices, the Contractor shall be solely and completely responsible for conditions in, on, or near the job site; including safety of all persons and property affected directly or indirectly by its operations during performance of the work. This requirement will apply continuously 24 hours per day until acceptance of the work by the NJSEA. It shall not be limited to normal working hours.

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- 18.6 The duty of the NJSEA, or its authorized representative, to conduct construction review of the Contractor's performance does not include review of the adequacy of the Contractor's safety measures, in, on, or near the construction site.
- 19.0 OFFER OF GRATUITIES:**
- 19.1 No vendor shall pay, offer to pay, or agree to pay, either directly or indirectly, any fee, commission, compensation, gift, gratuity, or other item of value of any kind to any State officer or employee or special State officer or employee, as defined by NJSA 52:13D-13b. and e., in the Department of the Treasury or any other agency with which such vend or transacts or offers or proposes to transact business, or to any member of the immediate family, as defined by NJSA 52:13D-13i., of any such officer or employee, or any partnership, firm, or corporation with which they are employed or associated, or in which such officer or employee has an interest within the meaning of NJSA 52:13D-13g.
- 19.2 The solicitation of any fee, commission, compensation, gift, gratuity or other item of value by any State officer or employee or special State officer or employee, from any State vendor shall be reported in writing forthwith by the vendor to the Attorney General and the Executive Commission on Ethical Standards.
- 19.3 No vendor may directly or indirectly, undertake any private business, commercial or entrepreneurial relationship with, whether or not pursuant to employment, contract or other agreement, express or implied, or sell any interest in such vendor to, any State officer or employee, having any duties or responsibilities in connection with the purchase, acquisition or sale of any property or services by or to any State agency or any instrumentality thereof, or with any person, firm or entity with which he is employed or associated or in which he has an interest within the meaning of NJSA 52:13D-13g. Any relationships subject to this provision shall be reported in writing forthwith to the Executive Commission on Ethical Standards, which may grant a waiver of this restriction upon application of the State officer or employee or special State officer or employee upon a finding that the present or proposed relationship does not present the potential, actuality or appearance of a conflict of interest.
- 19.4 No vendor shall influence, attempt to influence, or cause to be influenced, any State officer or employee or special State officer or employee in his official capacity in any manner which might tend to impair the objectivity or independence of judgment of said officer or employee.
- 19.5 No vendor shall cause or influence, or attempt to cause or influence, any State officer or employee, or special State officer or employee, to use, or attempt to use, his official position to secure unwarranted privileges or advantages for the vendor or any other person.

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19.6 The provisions cited above in paragraph 19.1 through 19.5 shall not be construed to prohibit a State officer or employee, or special State officer or employee, from receiving gifts from or contracting with vendors under the same terms and conditions as are offered or made available to members of the general public subject to any guidelines the Executive commission on Ethical Standards may promulgate under paragraph 19.3.

20.0 SUBCONTRACTORS:

20.1 A list of proposed subcontractors shall be included with the Bid as required by the Bid Forms. The list shall be accompanied by an experience statement for each subcontractor indicating each subcontractor's qualifications. If the NJSEA, after due investigation, has reasonable objection to any proposed subcontractor, the NJSEA may, before giving the notice of award, request the apparent Successful Bidder to submit an acceptable substitute without an increase in bid price. If the apparent Successful Bidder declines to make any such substitution, the Contract shall not be awarded to said Bidder; but its declining to make such a substitution will not constitute grounds for sacrificing its bid security. Any subcontractor, to whom the NJSEA does not make a written objection prior to the giving of the notice of award, shall be deemed acceptable to the NJSEA.

20.2 No Contractor shall be required to employ any subcontractor against whom it has objection.

21.0 PRE- START CONFERENCE:

21.1 The Contractor shall be prepared to attend a pre-start up conference after execution of the Contract, and prior to the beginning of work, at which representatives of the NJSEA will be present, to discuss performance of the work under this contract. The Contractor's representative must be authorized to speak for the Contractor and to act as an agent of the Contractor.

22.0 CONTRACT DOCUMENTS:

22.1 The information and requirements included as the INSTRUCTIONS TO BIDDERS are neither inclusive nor exclusive, and the Bidder or Contractor shall make no claim for lack of notice because information requirements are stated elsewhere in the Contract Documents, but are not repeated herein.

22.2 The Table of Contents, titles, headings, running headlines, and notes contained in the Contract Documents are solely to facilitate reference to various provisions of the Contract Documents; and in no way affect, limit, or cast light on the interpretation of the provisions to which they refer.

23.0 EQUAL EMPLOYMENT OPPORTUNITY AND AFFIRMATIVE ACTION:

23.1 During the performance of this contract the contractor agrees as follows:

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The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, up-grading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees places by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity of expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractors' commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer, pursuant to the N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time with the Americans with Disabilities Act.

When hiring or scheduling workers in each construction trade, the contractor or subcontractor agrees to make good faith effort to employ minority and women workers in each construction trade consistent with the targeted employment goal prescribed by N.J.A.C. 17:27-7.2; provided, however, that the Dept. of LWD, Construction EEO Monitoring Program may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, A, B and C, as long as the Dept. of LWD, Construction EEO Monitoring Program is satisfied that the contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance

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with standards prescribed by the Dept. of LWD, Construction EEO Monitoring Program, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the targeted employment goal established in accordance with N.J.A.C. 17:27-7.2. The contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

(A) If the contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor shall, within three business days of the contract award, seek assurances from the union that it will cooperate with the contractor or subcontractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et.seq., as supplemented and amended from time to time and the Americans with Disabilities Act. If the contractor or subcontractor is unable to obtain said assurance from the construction trade union at least five business days prior to the commencement of the construction work, the contractor or subcontractor agrees to afford equal employment opportunities minority and women workers directly, consistent with this chapter. If the contractor's or subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with affording equal employment opportunities as specified in this chapter, the contractor or subcontractor agrees to be prepared to provide such opportunities to minority and women workers directly, consistent with this chapter, by complying with the hiring or scheduling procedures prescribed under (B) below; and the contractor or subcontractor further agrees to take said action immediately if it determines that the union is not referring minority and women workers consistent with the equal employment opportunity goals set forth in this chapter.

(B) If good faith efforts to meet targeted employment goals have not or cannot be met for each construction trade by adhering to the procedures of (A) above, or if the contractor does not have a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor agrees to take the following actions:

1. To notify the public agency compliance officer, the Dept. of LWD, Construction EEO Monitoring Program, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;
2. To notify any minority and women workers who have been listed with its awaiting available vacancies;

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3. Prior to commencement of work, to request that the local construction trade union refer minority and women workers to fill job openings, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade;
4. To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area;
5. If it is necessary to lay off some of the workers in a given trade on the construction site, layoffs shall be conducted in compliance with the equal employment opportunity and non-discrimination standards set forth in this regulation, as well as with applicable Federal and State court decisions;
6. To adhere to the following procedure when minority and women workers apply or are referred to the contractor or subcontractor;
 - (i) The contractor or subcontractor shall interview the referred minority or women worker.
 - (ii) If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the contractor or subcontractor shall in good faith determine the qualifications of such individuals. The contractors or subcontractor shall hire or schedule those individuals who satisfy appropriate qualification standards in conformity with the equal employment opportunity and non-discrimination principles set forth in this chapter. However, a contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the Dept. of LWD, Construction EEO Monitoring Program. If necessary, the contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of (C) below.
 - (iii) The name of any interested women or minority individual shall be maintained on a waiting list, and shall be considered for employment as described in (i) above, whenever vacancies occur. At the request of the Dept. of LWD, Construction EEO Monitoring Program, the contractor or subcontractor shall provide evidence of its good faith efforts to employ women and minorities from the list to fill vacancies.

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(iv) If, for any reason, said contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the contractor or subcontractor shall inform the individual in writing of the reasons for the determination, maintain a copy of the determination in its files, and send a copy to the public agency compliance officer and to the Dept. of LWD, Construction EEO Monitoring Program.

7. To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the Division and submitted promptly to the Dept. of LWD, Construction Monitoring Program upon request.

(C) The contractor or subcontractor agrees that nothing contained in (B) above shall preclude the contractor or subcontractor from complying with the union hiring hall or apprenticeship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the targeted county employment goal, the contractor or subcontractor shall consider for employment persons referred pursuant to (B) above without regard to such agreement or arrangement; provided further, however, that the contractor or subcontractor shall not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ration established by practice in the area for said construction trade. Also, the contractor or subcontractor agrees that, in implementing the procedures of (B) above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.

After notification of award, but prior to signing a construction contract, the contractor shall submit to the public agency compliance officer and the Dept. of LWD, Construction EEO Monitoring Program an initial project workforce report (Form AA201) electronically provided to the public agency by the Division, through its website, for distribution to and completion by the contractor, in accordance with N.J.A.C. 17:27-7. The contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration to his contract to the Dept. of LWD, Construction EEO Monitoring Program, and to the public agency compliance officer.

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The contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for the on-the-job programs for outreach and training of minorities and women.

(D) The contractor and its subcontractor shall furnish such reports or other documents to the Dept. of LWD, Construction EEO Monitoring Program as may be requested by the Dept. of LWD, Construction EEO Monitoring Program from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Dept. of LWD, Construction EEO Monitoring Program for conducting a compliance investigation pursuant NJAC 17:27-1.1 et seq.

The Executive Order No. 151 (Corzine, August 28, 2009) and P.L. 2009, Chapter 335 include a provision which require all state agencies, independent authorities and colleges and universities to include additional mandatory equal employment and affirmative action language in its construction contracts. It is important that this language is in addition to and does not replace the mandatory contract language and good faith efforts requirements for construction contracts required by N.J.A.C. 17-27-3.6, 3.7 and 3.8, also know as Exhibit B. The additional mandatory equal employment and affirmative action language is as follows:

It is the policy of the [Reporting Agency] that its contracts should create a workforce that reflects the diversity of the State of New Jersey. Therefore, contractors engaged by the [Reporting Agency] to perform under the construction contract shall put forth a good faith effort to engage in recruitment and employment practices that further the goal of fostering equal opportunities to minorities and women.

The contractor must demonstrate to the [Reporting Agency]'s satisfaction that a good faith effort was made to ensure that minorities and women have been afforded equal opportunity to gain employment under the [Reporting Agency]'s contract with the contractor. Payment may be withheld from a contractor's contract for failure to comply with these provisions.

Evidence of a "good faith effort" includes, but is not limited to:

1. The Contractor shall requite prospective employees through the State Job bank website, managed by the Department of Labor and Workforce Development, available online at <http://NJ.gov/JobCentralNJ>;
2. The Contractor shall keep specific records of its efforts, including records of all individuals interviewed and hired, including the specific numbers of minorities and women;

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3. The Contractor shall actively solicit and shall provide the [Reporting Agency] with proof of solicitations for employment, including but not limited to advertisements in general circulation media, professional service publications and electronic media; and
4. The Contractor shall provide evidence of efforts described at 2 above to the [Reporting Agency] no less frequently than once every 12 months.
5. The Contractor shall comply with the requirements set forth at N.J.A.C. 17:27.

To ensure successful implementation of Executive Order and Law, state agencies, independent authorities and colleges and universities must forward and Initial Project Workforce Report (AA201) for any projects funded with ARRA money to the Division of Public Contracts EEO Compliance immediately upon notification of award but prior to execution of the contract.

24. NEW JERSEY EQUAL PAY ACT:

Please be advised that in accordance with P.L. 2018, c. 9, also known as the Diane B. Allen Equal Pay Act, which was signed in to law by Governor Phil Murphy on April 24, 2018, a contractor performing “qualifying services” or “public work” to the State or any agency or instrumentality of the State shall provide the Commissioner of Labor and Workforce Development a report regarding the compensation and hours worked by employees categorized by gender, race, ethnicity, and job category. For more information and report templates see <https://nj.gov/labor/equalpay/equalpay.html>.

3. STATE LAW REQUIRING MANDATORY COMPLIANCE BY CONTRACTORS UNDER CIRCUMSTANCES SET FORTH IN LAW OR BASED ON THE TYPE OF CONTRACT:

3.8 DIANE B. ALLEN EQUAL PAY ACT Pursuant to N.J.S.A. 34:11-56.14, a contractor performing “qualifying services” or “public work” to the State or any agency or instrumentality of the State shall provide the Commissioner of Labor and Workforce Development a report regarding the compensation and hours worked by employees categorized by gender, race, ethnicity, and job category. For more information and report templates see <https://nj.gov/labor/equalpay/equalpay.html>

25.0 BUSINESS REGISTRATION CERTIFICATE:

- 25.1 Any Contractor or subcontractor entering into a contract with a State agency shall provide the following:
- A. A Contractor shall provide proof of valid business registration with the Division of Revenue in the Department of the Treasury to any contracting State agency; no contract shall be entered into by any contracting State agency unless the contractor first provides proof of valid business registration.

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- B. A subcontractor under any contract with a contracting State agency shall provide proof of valid business registration with the Division of Revenue to any contractor; verification information shall be forwarded by the contractor to the contracting State agency. No subcontract shall be entered into by any contractor under any contract with a contracting State agency unless the subcontractor first provides proof of valid business registration.
- 25.2 The Contractor and any subcontractor providing goods or performing services under this contract, and each of their affiliates, shall, during the term of the contract, collect and remit to the Director of the Division of Taxation in the Department of the Treasury the use tax due pursuant to the "Sales and Use Tax Act, P.L. 1966, c.30 (N.J.S.A. 54:32B-1 et seq.) on all their sales of tangible personal property delivered to the State. Any questions can be directed to the Division of Revenue at (609) 292-1730. Form NJ-REG can be filed online at <http://www.state.nj.us/treasury/revenue/busregcert.htm>
- 25.3 A Contractor's Exemption Purchase Certificate, Form ST-13 of the State of New Jersey, Division of Taxation, Sales Tax Bureau, shall be completed by the Bidder and shall, for Sales and Use Tax exemption purposes under N.J.S.A. 54:32B-8.22, be presented to the sellers of materials, supplies or services purchased by the Bidder for exclusive use in connection with this Project only.
- 26.0 REGISTRATION WITH THE PUBLIC WORKS CONTRACTOR:**
- 26.1 The Contractor and all subcontractors shall provide, with the Bid, proof of registration with the Public Works Contractor Registration Act (NJSA 34:11-56.48 et. seq.). Registration information can be obtained on the worldwide web at <http://www.nj.gov/labor/lsse/lspubcon.html> or by calling 609-292-9464.
- 26.2 No Contractor shall bid on the Work of this Contract unless the Contractor is registered pursuant to this act **at the time the Bid is made.**
- 26.3 No Contractor shall list a subcontractor in the Bid for the Work of this Contract unless the subcontractor is registered pursuant to this act **at the time the Bid is made.**
- 26.4 Should a subcontractor be named after the Bid, that subcontractor must be registered pursuant to this Act prior to engaging in the Work of this Contract.
- 27.0 REQUIREMENTS OF PUBLIC LAW 2005, CHAPTER 51:** (to be submitted by all bidders)
- 27.1 Public Law 2005, c. 51 supersedes Executive Order 134. The Executive Order, and the subsequent legislation, contain additional restrictions and reporting

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requirements that will necessitate a thorough review of the provisions. Chapter 51 can be found on the Purchase Bureau website at
<http://www.njleg.state.nj.us/2004/Bills/PL05/51-.PDF>

- 27.2 In order to safeguard the integrity of State government procurement by imposing restrictions to insulate the award of State contracts from political contributions that pose the risk of improper influence, purchase of access, or the appearance thereof, Executive Order 134 was signed on September 22, 2004 ("EO 134"). Pursuant to the requirements of EO 134, the terms and conditions set forth in this section are material terms of any contract resulting from this Bid.
- 27.3 Definitions - For the purpose of this section, the following shall be defined as follows:
- A. Contribution - means a contribution reportable as a recipient under "The New Jersey Campaign Contributions and Expenditures Reporting Act." P.L. 1973, c. 83 (C.10:44A-1 et seq.), and implementing regulations set forth at N.J.A.C. 19:25-7 and N.J.A.C. 19:25- 10.1 et seq. Currently, contributions in excess of \$300 during a reporting period are deemed "reportable" under these laws.
 - B. Business Entity - means any natural or legal person, business corporation, professional services corporation, limited liability company, partnership, limited partnership, business trust, association or any other legal commercial entity organized under the laws of New Jersey or any other state or foreign jurisdiction. It also includes (i) all principals who own or control more than 10 percent of the profits or assets of a business entity or 10 percent of the stock in the case of a business entity that is a corporation for profit, as appropriate; (ii) any subsidiaries directly or indirectly controlled by the business entity; (iii) any political organization organized under 26 U.S.C.A. 527 that is directly or indirectly controlled by the business entity, other than a candidate committee, election fund, or political party committee; and (iv) if a business entity is a natural person, that person's spouse or child, residing in the same household.
- 27.4 Breach of Terms of Executive Order 134 Deemed Breach of Contract - It shall be a breach of the terms of the contract for the Business Entity to (i) make or solicit a contribution in violation of this Order, (ii) knowingly conceal or misrepresent a contribution given or received; (iii) make or solicit contributions through intermediaries for the purpose of concealing or misrepresenting the source of the contribution; (iv) make or solicit any contribution on the condition or with the agreement that it will be contributed to a campaign committee or any candidate of holder of the public office of Governor, or to any State or county party committee; (v) engage or employ a lobbyist or consultant with the intent or understanding that such lobbyist or consultant would make or solicit any contribution, which if made or solicited by the business entity itself, would subject that entity to the

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restrictions of EO 134; (vi) fund contributions made by third parties, including consultants, attorneys, family members, and employees; (vii) engage in any exchange of contributions to circumvent the intent of EO 134; or (viii) directly or indirectly through or by any other person or means, do any act which would subject that entity to the restrictions of EO 134.

27.5 Certification and Disclosure Requirements

- A. The State shall not enter into a contract to procure from any Business Entity services or any material, supplies or equipment, or to acquire, sell or lease any land or building, where the value of the transaction exceeds \$17,500, if that Business Entity has solicited or made any contribution of money, or pledge of contribution, including in-kind contributions to a candidate committee and/or election fund of any candidate for or holder of the public office of Governor, or to any State or county political party committee during certain specified time periods.
- B. Prior to awarding any contract or agreement to any Business Entity, the Business Entity proposed as the intended awardee of the contract shall submit the Certification and Disclosure form, certifying that no contributions prohibited by Executive Order 134 have been made by the Business Entity and reporting all contributions the Business Entity made during the preceding four years to any political organization organized under 26 U.S.C.527 of the Internal Revenue Code that also meets the definition of a "continuing political committee" within the mean of N.J.S.A. 19:44A-3(n) and N.J.A.C. 19:25-1.7. The required form and instructions, available for review on the Purchase Bureau website at <http://www.state.nj.us/treasury/purchase/forms.shtml> shall be provided to the intended awardee for completion and submission to the Purchase Bureau with the Notice of Intent to Award. Upon receipt of a Notice of Intent to Award a Contract, the intended awardee shall submit to the Division, in care of the Purchase Bureau Buyer, the Certification and Disclosure(s) within five (5) business days of the State's request. Failure to submit the required forms will preclude award of a contract under this Bid, as well as future contract opportunities. Instructions and sample copies of the required forms are included in the Appendices at the end of these INSTRUCTIONS TO BIDDERS.
- C. Further, the Contractor is required, on a continuing basis, to report any contributions it makes during the term of the contract, and any extension(s) thereof, at the time any such contribution is made. The required form and instructions, available for review on the Purchase Bureau website at <http://www.state.nj.us/treasury/purchase/forms.shtml> shall be provided to the intended awardee with the Notice of Intent to Award.
- 27.6 State Treasurer Review - The State Treasurer or his designee shall review the Disclosures submitted pursuant to this section, as well as any other pertinent

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information concerning the contributions or reports thereof by the intended awardee, prior to award, or during the term of the contract, by the contractor. If the State Treasurer determines that any contribution or action by the contractor constitutes a breach of contract that poses a conflict of interest in the awarding of the contract under this solicitation, the State Treasurer shall disqualify the Business Entity from award of such contract.

28.0 EXECUTIVE ORDER 117:

28.1 Executive Order No. 117 builds on the provisions of P.L. 2005, c. 51 ("Chapter 51"), which limits contributions to certain political candidates and committees by for-profit business entities that are, or seek to become, State government vendors. Executive Order No. 117 extends the provisions of Chapter 51 in two ways:

- A. The definition of "business entity" is revised and expanded so that contributions by the following individuals also are considered contributions attributable to the business entity:
1. Officers of corporations and professional services corporations, with the term "officer" being defined in the same manner as in the regulations of the Election Law Enforcement Commission regarding vendor disclosure requirements (N.J.A.C. 19:25-26.1), with the exception of officers of non-profit entities;
 2. Partners of general partnerships, limited partnerships, and limited liability partnerships and members of limited liability companies (LLCs), with the term "partner" being defined in the same manner as in the regulations of the Election Law Enforcement Commission regarding vendor disclosure requirements (N.J.A.C. 19:25-26.1); and
 3. Spouses, civil union partners, and resident children of officers, partners, LLC members and persons owning or controlling 10% or more of a corporation's stock are included within the new definition, except for contributions by spouses, civil union partners, or resident children to a candidate for whom the contributor is eligible to vote or to a political party committee within whose jurisdiction the contributor resides.

Reportable contributions (those over \$300.00 in the aggregate) to legislative leadership committees, municipal political party committees, and candidate committees or election funds for Lieutenant Governor are disqualifying contributions in the same manner as reportable contributions to State and county political party committees and candidate committees or election funds for Governor have been disqualifying contributions under Chapter 51.

29.0 NEW JERSEY PREVAILING WAGE ACT:

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The New Jersey Prevailing Wage Act, P.L. 1963, Chapter 150, is hereby made a part of every contract entered into by the Authority, except those contracts which are not within the contemplation of the Act. The Proposer's submission of its Proposal is its guarantee that neither it nor any subcontractors might employ to perform the work covered by this bid are listed or are on record in the Office of the Commissioner of the Department of Labor and Industry as one who has failed to pay prevailing wages in accordance with the provisions of the Act.

Attention is directed to the Prevailing Wage Rate List and to the applicable provisions of "The New Jersey Prevailing Wage Act" Chapter 150 of the Laws of 1963 governing the prevailing rates of wage for workers who are employed in this project. All provisions of said Wage Act and amendments thereto, shall be considered part of the Contract and made part thereof.

The Proposer, by submitting the Proposal, declares to the Authority that it is aware of the provisions of said Wage Act with relation to prevailing rates of wages for workers to be employed on this project.

FORMS AND INSTRUCTIONS ARE INCLUDED IN THE APPENDIX

30.0 NOTICE OF SETOFF FOR STATE TAXES:

30.1 Pursuant to N.J.S.A. 54:49-19, if the Contractor is entitled to payment under the Contract at the same time as it is indebted for any State tax (or is otherwise indebted to the State), the NJSEA may set off that payment by the amount owed.

30.2 The Bidder shall certify acknowledgement of this by completing the form contained in the BID FORMS.

31.0 NEW JERSEY PROMPT PAYMENT ACT:

31.1 The New Jersey prompt Payment Act (N.J.S.A. 52:32-32 et seq.) requires state agencies to pay for goods and services within sixty (60) days of the agency's receipt of a properly executed State Payment Voucher or within sixty (60) of receipt and acceptance of goods and services, whichever is later. Properly executed performance security, when required, must be received by the state prior to processing any payments for goods and services accepted by state agencies. Interest will be paid on delinquent accounts at a rate established by the State Treasurer. Interest will not be paid until it exceeds \$5.00 per properly executed invoice.

32.0 CORPORATE RESOLUTION FORM

32.1 Bidders to complete a corporate resolution form per **SECTION 00486**.

33.0 OWNER DISCLOSURE FORM and MacBRIDE PRINCIPLES: (to be completed by successful bidder)

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33.1 The successful bidder is required to complete Division of Purchase and Property Ownership Disclosure Forms (N.J.S.A. 52:25-24.2 et seq.) including Disclosure of Investigations, Disclosures of Investment Activities in Iran pursuant to Public Law 2012, c. 25, McBride Principles Form pursuant to Public Law 1995, c. 134, and Certification of Non-Involvement in Prohibited Activities in Russia or Belarus pursuant to Public Law 2022, c.3.

33.2 Forms and Instructions are included in the Appendix.

34.0 PROOF OF COMPETENCY OF BIDDERS

34.1 Any Bidder may be required to furnish evidence satisfactory to the NJSEA that the Bidder 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. In particular, the Contractor must have the appropriate licenses to perform the required remediations.

34.2 The NJSEA reserves the right to reject any Bid if the evidence submitted fails to satisfy the NJSEA that the Bidder and/or Bidder's proposed Subcontractors are qualified to carry out and complete the Contract.

35.0 ANTI-KICKBACK ACT

35.1 The Contractor shall comply with the applicable regulations of the Secretary of Labor, United States Department of Labor, promulgated pursuant to the so-called "Anti-Kickback Act" of June 13, 1934 (48 Stat. 863: Title 18 U.S.C., Sec. 874, and Title 40 U.S.C., Sec. 276c), and any amendments or modifications thereof, and shall cause appropriate provisions to be inserted in Subcontracts to insure compliance therewith by all Subcontractors.

36.0 BUY AMERICAN

36.1 Only manufactured and farm products of the United States, wherever available, shall be used under this Contract, pursuant to N.J.S.A. 40A:11-18.

37.0 LAWS, ORDINANCES, CODES AND REGULATIONS

37.1 All "work" to be provided for this project shall conform to the following and subsequent revisions thereto:

- A. The State Uniform Construction Code Act (N.J.S.A. 52:27D-119 et seq.); and the Uniform Construction Code and all applicable Subcodes thereof.
- B. All applicable published communications by the Department of Community Affairs (DCA) including but not limited to the following:
 - 1. DCA Interpretations
 - 2. DCA Formal Technical Opinions
 - 3. DCA Bulletins
 - 4. Related Regulations

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5. Miscellaneous

- C. The Americans with Disabilities Act of 1990.
 - D. NJDOT Standard Specifications and details except as outlined otherwise.
- 37.2 The Specifications make reference to certain laws, ordinances, codes and regulations, whether they be by Federal, State, County and/or Municipal Governments. This is done to alert those involved with the Project of unique requirements that pertain to building construction work for the NJSEA. This is not intended as a limitation of the Contractor's responsibility to comply with any and all other Federal, State and Local building codes and ordinances that relate to this project.
- 38.0 STOCKHOLDER DISCLOSURE:**
- 38.1 All corporations and partnerships submitting a bid are required to enclose a list of the names and addresses of all stockholders owning 10% or more of their stock or 10% or more of the stock of their corporate stockholders or in the case of a partnership, the names and addresses of those owning a 10% or greater interest therein.
- 39.0 WITHDRAWAL OF BIDS**
- 39.1 Upon proper request and identification a bidder may withdraw his bid prior to the scheduled time for the opening thereof. However, no bid may be withdrawn after the first bid has been opened and thereafter not for a period of 60 days after the date of the opening thereof.
- 40.0 LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT**
- 40.1 The successful bidder upon his failure or refusal to execute and deliver the Contract and Contract Bond required within 5 days after he has received notice of the acceptance of his bid shall forfeit to the Owner as liquidated damages for such failure or refusal the security deposited with his bid.
- 41.0 PENALTIES FOR FALSE STATEMENTS**
- 41.1 Any person who makes or causes to be made a false deceptive or fraudulent statement in the statement or answers in response to the questionnaire, or in the course of any hearing hereunder, shall be guilty of a misdemeanor, and upon conviction shall be punishable by a fine of not less than \$ 100.00 no more than \$1,000.00, and shall be permanently disqualified from bidding all public work or contracts of the contracting unit which submitted the questionnaire; or in the case of an individual or an officer or employee charged with the duty of responding to the questionnaire for a person, firm, co partnership, association or corporation, by such fine or by imprisonment, not exceeding 6 months, or both (40A: 11-34).

END OF SECTION 00100

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SECTION 00300

**STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY**

BID SHEET: PROJECT CN-274

TO: The New Jersey Sports and Exposition Authority (NJSEA)

RE: NJSEA MEADOWLANDS PUMP STATION GENERATOR REPLACEMENT

This bid will not be accepted after 12:00 PM prevailing local time on, October 13th, 2022.
There will not be a public bid opening. The bidder agrees that this bid will not be
withdrawn for a period of 60 calendar days after the closing time for receipt of bids.

(Name of Firm Submitting Bid)

The undersigned hereby acknowledges receipt of the following addenda:

ADDENDUM NO.

DATE

The following documents are included with this bid:

1. Bid Security (including Power of Attorney if bid security is in the form of a bond)
2. Consent of Surety
3. Bidder's Experience Affidavit
4. Bidder's Disclosure Form
5. Bidder's Affidavit of Authorization
6. Moral Integrity Affidavit
7. Non-Collusion Affidavit
8. Subcontractor Use Form
9. Proof of Registration in accordance with the Public Works Contractor
Registration Act (For Contractor and all listed subcontractors)
10. Notice to All Bidders of Set-Off for State Tax
11. Corporate Resolution Form
12. Two-Year Chapter 51/Executive Order 117 Vendor Certification And Disclosure
Of Political Contributions
13. Iran Certification Form

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14. Certification Of Non-Debarment For Federal Government Contracts [N.J.S.A. 52:32-44.1 (P.L. 2019, C.406)]
15. MacBride Principles Form
16. Certification of Non-Involvement in Prohibited Activities in Russia or Belarus

The following Bid is hereby made to the New Jersey Sports and Exposition Authority.

The undersigned hereby proposes and agrees to furnish all the labor, materials, equipment, tools, and services necessary for the work specified for the above referenced Contract.

The undersigned has examined the location of the proposed Work, the Drawings, Specifications and all other Contract Documents, and is familiar with the local conditions at the place where the work is to be performed. The bidder understands that information relative to any existing structures, apparent and latent conditions, and natural phenomena as furnished in the Contract Documents or by the NJSEA, carries no guarantee expressed or implied as to its completeness or accuracy, and has made all due allowances therefore.

The undersigned Bidder declares that this Bid is made without connection to any other person or persons making Bids for the same work and is in all respects fair and without collusion or fraud.

The undersigned Bidder has determined the quantity and quality of equipment and materials required; has investigated the location and determined the sources of supply of the materials required; has investigated labor conditions; and has arranged for the continuous prosecution of the work herein described.

The undersigned Bidder agrees that the price bid shall apply to actual quantities required, approved and used during construction of the work, including Addenda. It further agrees to complete the entire work of the Contract within the time specified, starting on the date specified in the Notice-to-Proceed.

The undersigned Bidder hereby agrees to be bound by the award of the Contract, and if awarded the Contract on this Bid, to execute the Contract, to furnish the required Bonds and Insurance Certificates and Affirmative Action documentation, and to furnish all other information required by the Contract Documents within the time limits specified.

The undersigned understands that the NJSEA reserves the right to reject any or all Bids or to waive any informality or technicality of any Bid in the interest of the NJSEA. The Bidder agrees to perform all the work described in the Contract Documents, provide all plant, labor, equipment, materials, tools, and services necessary for the completion of

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the Contract all as specified and shown complete to a fully acceptable condition for the prices shown. The prices shall be printed and written on the following Schedule of Bid
SCHEDULE OF BID PRICES

NJSEA Meadowlands Pump Station Generator Replacement

I (we) her in propose to furnish and install all work associated with the work described in these Bid Documents for the **MEADOWLANDS PUMP STATION GENERATOR REPLACEMENT**

(\$ _____)
Lump Sum - *in words*

(\$ _____)
Lump Sum - *in figures*

I, or We, hereby commit to complete this **Project within:**

Number of Calendar Days to Complete

Contractor Signature

If this Bid shall be accepted by the NJSEA, and the undersigned shall fail to contract as aforesaid, the NJSEA shall be entitled to recover from the Bidder those moneys as specified in Article 7.0 of the **INSTRUCTIONS TO BIDDERS**.

If a Corporation:

Name of Company _____

Business Address _____

Business Telephone Number _____

Incorporated under the laws of the State of _____

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

Signature and Title of Bidder _____
(Signature)

(Typed Name)

(Typed Title)

Name of President _____

Name of Secretary _____

Name of Treasurer _____

Date _____

(Affix Corporate Seal Here)

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**SECTION 00410
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY**

BID BOND FOR PROJECT CN-274

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____ as Principal, and _____ as Surety, are hereby held and firmly bound unto the NEW JERSEY SPORTS AND EXPOSITION AUTHORITY (NJSEA) for the penal sum of \$_____ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns; effective on the latest date of signature at the end of the above referenced Contract.

The condition of the above obligations is such that whereas the Principal attached hereto and hereby made a part hereof to enter into the above referenced Contract.

NOW THEREFORE:

- If said Bid shall be rejected; or in the alternate,
- If said Bid shall be accepted and the Principal shall execute and deliver a contract on the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for the faithful performance of said Contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by an extension of the time within which the NJSEA may accept such Bid; and said Surety does hereby waive notice of any such extension.

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

SECTION 00411

STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY

CONSENT OF SURETY FOR PROJECT CN-274

KNOW ALL MEN BY THESE PRESENTS, that for and in consideration of the sum of \$1.00, lawful money of the United States, the receipt whereof is hereby acknowledged, paid the undersigned corporation, and for other valuable consideration, _____
_____ (Name of Surety Company), a corporation organized and existing under the laws of the State of _____ and licensed to do business in the State of New Jersey, certifies and agrees, that if this Contract is awarded to _____ (Name of Bidder) the undersigned corporation will execute the bond or bonds as required by the Contract Documents, and will become Surety in the full amounts set forth in the Contract Documents, for the faithful performance of all obligations of the Contractor.

(Surety)

(Must be accompanied by the usual proof of authority of surety company officers to execute the same).

END OF SECTION 00411

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**SECTION 00420
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSTION AUTHORITY**

BIDDERS EXPERIENCE AFFIDAVIT: PROJECT CN-274

Any businesses incorporated outside the State of New Jersey shall furnish a certificate proving they are authorized by the Secretary of the State of New Jersey to do business in the State of New Jersey prior to contract award.

The **BIDDER** shall document their experience by completing the form below, or on sheets to be attached. The list shall include **AT LEAST THREE PROJECTS COMPLETED WITHIN THE LAST FIVE YEARS**, which are similar in scope and size to that proposed in this Contract.

All listed subcontractors refer to the individual specifications for qualification requirements to be submitted.

<u>Project Name & Address</u>	<u>Name and # of Contact</u>	<u>Completion Date</u>	<u>Description of Work</u>	<u>Contract Amount</u>
1.				
2.				
3.				

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

This information will assist the NJSEA to judge the bidder's experience, skill, and business standing. **Bidders failing to furnish all the required information may be disqualified.**

The undersigned is (an Individual) (a Partnership) (a Corporation) under the laws of the State of _____, having principal offices at _____

_____.

(Signature)

(Typed Name)

Date: _____

(Typed Address)

END OF SECTION 00420

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**SECTION 00424
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY**

BIDDER'S DISCLOSURE FORM: PROJECT CN-274



OWNERSHIP DISCLOSURE FORM

STATE OF NEW JERSEY
DEPARTMENT OF THE TREASURY - DIVISION OF PURCHASE AND PROPERTY
33 WEST STATE STREET, P.O. BOX 230 TRENTON, NEW JERSEY 08625-0230

BID SOLICITATION # AND TITLE: _____

VENDOR NAME: _____

PURSUANT TO N.J.S.A. 52:25-24.2, ALL PARTIES ENTERING INTO A CONTRACT WITH THE STATE ARE REQUIRED TO PROVIDE A STATEMENT OF OWNERSHIP.

- | | YES | NO |
|---|--------------------------|--------------------------|
| 1. The vendor is a Non-Profit Entity ; and therefore, no disclosure is necessary. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. The vendor is a Sole Proprietor ; and therefore, no other disclosure is necessary.
A Sole Proprietor is a person who owns an unincorporated business by himself or her-self.
A limited liability company with a single member is not a Sole Proprietor. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. The vendor is a corporation, partnership, or limited liability company . | <input type="checkbox"/> | <input type="checkbox"/> |

If you answered **YES** to Question 3, you must disclose the following: **(a)** the names and addresses of all stockholders in the corporation who own 10% or more of its stock, of any class; **(b)** all individual partners in the partnership who own a 10% or greater interest therein; or, **(c)** all members in the limited liability company who own a 10% or greater interest therein.*

NAME			
ADDRESS			
ADDRESS			
CITY	STATE	ZIP	

NAME			
ADDRESS			
ADDRESS			
CITY	STATE	ZIP	

NAME			
ADDRESS			
ADDRESS			
CITY	STATE	ZIP	

NAME			
ADDRESS			
ADDRESS			
CITY	STATE	ZIP	

- | | YES | NO |
|--|--------------------------|--------------------------|
| 4. For each of the corporations, partnerships, or limited liability companies identified above, are there any individuals, partners, members, stockholders, corporations, partnerships, or limited liability companies owning a 10% or greater interest of those listed business entities? | <input type="checkbox"/> | <input type="checkbox"/> |

If you answered **YES** to Question 4, you must disclose the following: **(a)** the names and addresses of all stockholders in the corporation who own 10% or more of its stock, of any class; **(b)** all individual partners in the partnership who own a 10% or greater interest therein; or, **(c)** all members in the limited liability company who own a 10% or greater interest therein. The disclosure(s) shall be continued until the names and addresses of every non-corporate stockholder, individual partner, and/or member a 10% or greater interest has been identified.*

NAME			
ADDRESS			
ADDRESS			
CITY	STATE	ZIP	

NAME			
ADDRESS			
ADDRESS			
CITY	STATE	ZIP	

NAME			
ADDRESS			
ADDRESS			
CITY	STATE	ZIP	

NAME			
ADDRESS			
ADDRESS			
CITY	STATE	ZIP	

5. As an alternative to completing this form, a Vendor with any direct or indirect parent entity which is publicly traded, may submit the name and address of each publicly traded entity and the name and address of each person that holds a 10% or greater beneficial interest in the publicly traded entity as of the last annual filing with the federal Securities and Exchange Commission or the foreign equivalent, and, if there is any person that holds a 10% or greater beneficial interest, also shall submit links to the websites containing the last annual filings with the federal Securities and Exchange Commission or the foreign equivalent and the relevant page numbers of the filings that contain the information on each person that holds a 10% or greater beneficial interest.*

NAME			
ADDRESS			
ADDRESS			
CITY	STATE	ZIP	

* Attach additional sheets if necessary

DPP Rev. 2.22.2021

END OF SECTION 00424

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**SECTION 00426
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY**

BIDDER'S AFFIDAVIT OF AUTHORIZATION: PROJECT CN-274

State of _____

ss:

County of _____

_____ (Name of Bidder), being duly sworn, deposes and says that:

- he/she resides at _____;
- he/she is the _____ (Title) who signed the Bid Forms for this Contract;
- he/she is duly authorized to sign, and that the Bid is a true offer of the Bidder, and the seal attached is the seal of the Bidder; and,
- all the declarations and statements contained in the Bid are true to the best of his/her knowledge and belief.

(Signature)

(Typed Name)

Subscribed and sworn to
before me this _____ day

of _____ 20_____.

(Notary Public)

My commission expires _____, 20_____

END OF SECTION 00426

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

SECTION 00427
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY

CORPORATE RESOLUTION FORM FOR PROJECT CN-274

BE IT RESOLVED, By the Board of Directors of _____
that the president (_____) be and hereby is authorized to make,
execute and deliver a contract for _____
with the New Jersey Sports & Exposition Authority; and that the Secretary
(_____) be and hereby is authorized to attest to the execution of
the same and affix the corporate seal thereto.

BOARD OF DIRECTORS

SECRETARY

(SEAL)

I HEREBY CERTIFY that the foregoing is an exact copy of a Resolution by the BOARD
of Directors of

(_____) adopted at a (_____) , meeting held
on _____ at which quorum was present.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of

(_____)

this _____ day of _____ 20_____.

SECRETARY

(SEAL)

END OF SECTION 00427

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

SECTION 00428
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY
MORAL INTEGRITY AFFIDAVIT: PROJECT CN-274

State of _____

ss:

County of _____

I, _____ (Name), the _____ (Title)

of _____ (Company), being first duly sworn, depose
and say that:

1. the above named company has submitted a bid regarding this Contract to the New Jersey Sports and Exposition Authority;
2. the above named company wishes to demonstrate moral integrity to the satisfaction of the New Jersey Sports and Exposition Authority;
3. as of the day of signing this Affidavit, neither the above named company nor any of its owners, officers, or directors are involved in any Federal, State, or other governmental investigations concerning criminal or quasi-criminal violations, except as follows (If none, so state): _____
4. neither the Company nor any of its owners, officers, or directors have ever committed any violation of a Federal or State criminal or quasi-criminal statute, except as follows (If none, so state): _____
5. neither the Company nor any of its owners, officers or directors have ever been suspended, disbarred or otherwise declared ineligible by any agency or government from bidding or contracting to provide services, labor, material or supplies except as follows (If none, so state): _____
6. neither the Company nor any of its owners, officers or directors have ever been involved in any investigation, litigation, including administrative complaints or other administrative proceedings, involving any public sector clients during the past five years except as follows (if applicable set forth the nature and status of the investigation and, for any litigation, the caption of the action, a brief description of the action, date of inception, current status and, if applicable, disposition (If none, so state): _____

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

7. the company is incorporation in the State of: _____
8. if the answer to the above question is a state other than New Jersey, that the company has received from the Secretary of State of New Jersey a certificate authorizing it to conduct business in New Jersey, and a copy of the certificate is enclosed with the Bid.
9. he/she is personally acquainted with the operations of the company, has full knowledge of the factual basis comprising the contents of this Affidavit, and that the contents are true.
10. the names and home addresses of the principals, shareholders, and officers of the company and their ownership interest (shares owned or % of partnership) are as follows:

(Use additional sheet if required)

11. this Affidavit is made to the New Jersey Sports and Exposition Authority to accept the bid for the above referenced Contract, knowing that the New Jersey Sports and Exposition Authority relies upon the truth of the statements contained herein.

The undersigned acknowledges that there is a continuing obligation from the date of this affidavit to notify the NJSEA of any changes to the answers or information contained herein.

I acknowledge that I am aware that it is a criminal offense to make a false statement in this Affidavit, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement with the NJSEA and that the NJSEA may declare any contract(s) resulting from this certification void and unenforceable.

(Signature)

(Typed Name)

Subscribed and sworn to
before me this ____ day
of _____ 20_____.

(Notary Public)

My commission expires _____, 20_____

END OF SECTION 00428

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**SECTION 00480
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY**

NON-COLLUSION AFFIDAVIT: PROJECT CN-274

State of _____

ss:

County of _____

I, _____ (Name), of the municipality of _____
in the County of _____ and the State of _____ being
first duly sworn, depose and say that:

- I am the _____ (Title) of the firm _____
the Bidder making the Bid for this Contract.
- I execute the Bid with the full authority to do so.
- Said Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above named Project.
- All statements contained in said Bid and in this affidavit are true and correct, and made with full knowledge that the New Jersey Sport and Exposition Authority relies upon the truth of the statements contained in the Bid and this affidavit in awarding this Contract.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such Contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except bona fide employees, or commercial or selling agencies maintained by the Bidder.

Subscribed and sworn to
before me this _____ day
of _____ 20__.

(Type or print name under signature)

(Notary Public)

My commission expires _____, 20_____

END OF SECTION 00480

SECTION 00482
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

BID DOCUMENTS - Section 00400 - 12

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**SECTION 00483
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY**

**PROOF OF VALID BUSINESS REGISTRATION CERTIFICATE FOR STATE
AGENCY AND CASINO SERVICE CONTRACTS - DEPARTMENT OF TREASURY
DIVISION OF REVENUE: PROJECT CN-274**

The Bidder shall provide proof of valid business registration with the Division of Revenue. A copy of the registration for the Bidder and for all listed subcontractors shall be attached to this form.

END OF SECTION 00483

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**SECTION 00484
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY**

**PROOF OF REGISTRATION WITH THE PUBLIC WORKS CONTRACTOR
REGISTRATION ACT - DEPARTMENT OF LABOR - PROJECT CN-274**

The Bidder shall provide proof of valid registration with the Public Works Contractor Registration Act. A copy of the registration for the Bidder and for all listed subcontractors shall be attached to this form.

END OF SECTION 00484

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**SECTION 00485
STATE OF NEW JERSEY
NEW JERSEY SPORTS AND EXPOSITION AUTHORITY**

NOTICE TO ALL BIDDERS OF SET-OFF FOR STATE TAX: PROJECT CN-274

Please be advised that, pursuant to L. 1995, c. 159, effective January 1, 1996, and codified at N.J.S.A. 59:49-19 and N.J.S.A. 59:49-20, and notwithstanding any provision of the law to the contrary, whenever any taxpayer, partnership of S corporation under contract to provide goods or services or construction projects to the state of New Jersey or its agencies or instrumentalities, including the legislative and judicial branches of State government, is entitled to payment for those goods and services or construction projects, at the same time a taxpayer, partner or shareholder of that entity is indebted for any State tax, the Director of the Division of Taxation shall seek to set off that taxpayer's, partner's or shareholder's share of the payment of that indebtedness. The amount set off shall not allow for the deduction of any expenses or other deductions which might be attributable to the taxpayer, partner or shareholder subject to set-off.

The Division of Taxation may initiate procedures to set off the tax debt of a specific vendor upon the expiration of ninety (90) days after either the issuance by the Division of a notice and demand for payment of any state tax owed by the taxpayer or the issuance by the Division of a final determination on any protest filed by the taxpayer against an assessment or final audit determination. A set-off reduces the contract payment due to a vendor by the amount of that vendor's state tax indebtedness or, in the case of a vendor-partnership or vendor-S corporation, by the amount of state tax indebtedness of any member-partner or shareholder of the partnership or S-corporation, respectively. N.J.A.C. 18:2-8.3.

The Director of the Division of Taxation shall give notice of the set-off to the taxpayer, partner or shareholder and shall provide an opportunity for a hearing within 30 days of such notice under the procedures for protest established under N.J.S.A. 54:49-18. No requests for conference, protest, or subsequent appeal to the Tax Court from any protest under N.J.S.A. 59:49-19 shall stay the collection of the indebtedness. Interest that may be payable by the State to the taxpayer, pursuant to L. 1987, c. 184 (N.J.S.A. 52:32-35) shall be stayed.

"I HAVE BEEN ADVISED OF THIS NOTICE"

Company: _____

Signature: _____

Print or Type Name of Signer: _____

Print or Type Title of Signer: _____

Date: _____

END OF SECTION 00485

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**SECTION 00486
STATE OF NEW JERSEY**

NEW JERSEY SPORTS AND EXPOSITION AUTHORITY

CORPORATE RESOLUTION FORM FOR CONTRACT: PROJECT CN-274

BE IT RESOLVED, By the Board of Directors of _____

that the president (_____) be and hereby is authorized to make,

execute and deliver a contract FOR: with the New Jersey Sports and Exposition
Authority

and that the Secretary (_____)

be and hereby is authorized to attest to the execution of the same and affix the corporate
seal thereto.

BOARD OF DIRECTORS

SECRETARY

(SEAL)

I HEREBY CERTIFY that the foregoing is an exact copy of a Resolution by the BOARD
of Directors of

(_____) adopted at a (_____) , meeting held
on

_____ at which quorum was present.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of

(_____)

this _____ day of _____ 20____.

SECRETARY

(SEAL)

END OF SECTION 00486

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

SECTION 00489

**INFORMATION AND INSTRUCTIONS FOR COMPLETING "TWO-YEAR CERTIFICATION
AND DISCLOSURE OF POLITICAL CONTRIBUTIONS" FORMS**

INFORMATION AND INSTRUCTIONS

**For Completing the "Two-Year Vendor Certification and Disclosure of
Political Contributions" Chapter 51 Form**

Background Information

On September 22, 2004, then-Governor James E. McGreevey issued E.O. 134, the purpose of which was to insulate the negotiation and award of State contracts from political contributions that posed a risk of improper influence, purchase of access or the appearance thereof. To this end, E.O. 134 prohibited State departments, agencies and authorities from entering into contracts exceeding \$17,500 with individuals or entities that made certain political contributions. E.O. 134 was superseded by Public Law 2005, c. 51, signed into law on March 22, 2005 ("Chapter 51").

On September 24, 2008, Governor Jon S. Corzine issued E.O. 117 which is designed to enhance New Jersey's efforts to protect the integrity of procurement decisions and increase the public's confidence in government. The Executive Order builds upon the provisions of Chapter 51.

Two-Year Certification Process

Upon approval by the State Chapter 51 Review Unit, the Certification and Disclosure of Political Contributions form is valid for a two (2) year period. Thus, if a vendor receives approval on January 1, 2014, the certification expiration date would be December 31, 2015. Any change in the vendor's ownership status and/or political contributions during the two-year period will require the submission of new Chapter 51/Executive Order 117 forms to the State Review Unit. **Please note that it is the vendor's responsibility to file new forms with the State should these changes occur.**

State Agency Instructions: Prior to the awarding of a contract, the State Agency should first use NJSTART (<https://www.njstart.gov/bso/>) to check the status of a vendor's Chapter 51 certification before contacting the Review Unit's mailbox at CD134@treas.nj.gov. If the State Agency does not find any Chapter 51 Certification information in NJSTART and/or the vendor is not registered in NJSTART, then the State Agency should send an e-mail to CD134@treas.nj.gov to verify the certification status of the vendor. If the response is that the vendor is NOT within an approved two-year period, then forms must be obtained from the vendor and forwarded for review. If the response is that the vendor is within an approved two-year period, then the response so stating should be placed with the bid/contract documentation for the subject project.

Instructions for Completing the Form

Part 1: BUSINESS ENTITY INFORMATION

Business Name – Enter the full legal name of the vendor, including trade name if applicable.

Address, City, State, Zip and Phone Number -- Enter the vendor's street address, city, state, zip code and telephone number.

Vendor Email – Enter the vendor's primary email address.

Vendor FEIN – Please enter the vendor's Federal Employment Identification Number.

Business Type - Check the appropriate box that represents the vendor's type of business formation.

Listing of officers, shareholders, partners or members - Based on the box checked for the business type, provide the corresponding information. (A complete list must be provided.)

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

Part 2: DISCLOSURE OF CONTRIBUTIONS

Read the three types of political contributions that require disclosure and, if applicable, provide the recipient's information. The definition of "Business Entity/Vendor" and "Contribution" can be found on pages 3 and 4 of this form.

Name of Recipient - Enter the full legal name of the recipient.

Address of Recipient - Enter the recipient's street address.

Date of Contribution - Indicate the date the contribution was given.

Amount of Contribution - Enter the dollar amount of the contribution.

Type of Contribution - Select the type of contribution from the examples given.

Contributor's Name - Enter the full name of the contributor.

Relationship of the Contributor to the Vendor - Indicate the relationship of the contributor to the vendor. (e.g. officer or shareholder of the company, partner, member, parent company of the vendor, subsidiary of the vendor, etc.)

NOTE: If form is being completed electronically, click "Add a Contribution" to enter additional contributions. Otherwise, please attach additional pages as necessary.

Check the box under the recipient information if no reportable contributions have been solicited or made by the business entity. **This box must be checked if there are no contributions to report.**

Part 3: CERTIFICATION

Check Box A if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity. **(No additional Certification and Disclosure forms are required if BOX A is checked.)**

Check Box B if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity with the exception of those individuals and/or entities that submit their own separate form. For example, the representative is not signing on behalf of the vice president of a corporation, but all others. The vice president completes a separate Certification and Disclosure form. **(Additional Certification and Disclosure forms are required from those individuals and/or entities that the representative is not signing on behalf of and are included with the business entity's submittal.)**

Check Box C if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity only. **(Additional Certification and Disclosure forms are required from all individuals and/or entities whose contributions are attributable to the business entity and must be included with the business entity submittal.)**

Check Box D when a sole proprietor is completing the Certification and Disclosure form or when an individual or entity whose contributions are attributable to the business entity is completing a separate Certification and Disclosure form.

Read the five statements of certification prior to signing.

The representative authorized to complete the Certification and Disclosure form must sign and print her/his name, title or position and enter the date.

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

State Agency Procedure for Submitting Form(s)

The State Agency should submit the completed and signed Two-Year Vendor Certification and Disclosure forms either electronically to: cd134@treas.nj.gov or regular mail at: Chapter 51 Review Unit, P.O. Box 230, 33 West State Street, Trenton, NJ 08625-0230. Original forms should remain with the State Agency and copies should be sent to the Chapter 51 Review Unit.

Business Entity Procedure for Submitting Form(s)

The business entity should return this form to the contracting State Agency.

The business entity can submit the Certification and Disclosure form directly to the Chapter 51 Review Unit only when:

- The business entity is approaching its two-year certification expiration date and is seeking certification renewal;
- The business entity had a change in its ownership structure; OR
- The business entity made any contributions during the period in which its last two-year certification was in effect, or during the term of a contract with a State Agency.

Questions & Information

Questions regarding Public Law 2005, Chapter 51 (N.J.S.A. 19:44A-20.13) or E.O. 117 (2008) may be submitted electronically through the Division of Purchase and Property website at: <https://www.state.nj.us/treas/purchase/eo134questions.shtml>.

Reference materials and forms are posted on the Political Contributions Compliance website at: <http://www.state.nj.us/treasury/purchase/execorder134.shtml>.

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**



State of New Jersey
Department of the Treasury

Division of Purchase and Property

Two-Year Chapter 51/Executive Order 117 Vendor Certification and
Disclosure of Political Contributions

FOR STATE USE ONLY

Solicitation, RFP, or Contract No. _____ Award Amount _____

Description of Services _____

State Agency Name _____ Contact Person _____

Phone Number _____ Contact Email _____

☐ Check if the Contract / Agreement is Being Funded Using FHWA Funds

Please check if requesting
recertification ☐

Part 1: Business Entity Information

Full Legal Business Name _____
(Including trade name if applicable)

Address _____

City _____ State _____ Zip _____ Phone _____

Vendor Email _____ Vendor FEIN (SS# if sole proprietor/natural person) _____

**Check off the business type and list below the required information for the type of business selected.
MUST BE COMPLETED IN FULL**

- ☐ Corporation: LIST ALL OFFICERS and any 10% and greater shareholder (If the corporation only has one officer, please write "sole officer" after the officer's name.)
- ☐ Professional Corporation: LIST ALL OFFICERS and ALL SHAREHOLDERS
- ☐ Partnership: LIST ALL PARTNERS with any equity interest
- ☐ Limited Liability Company: LIST ALL MEMBERS with any equity interest
- ☐ Sole Proprietor

Note: "Officers" means President, Vice President with senior management responsibility, Secretary, Treasurer, Chief Executive Officer or Chief Financial Officer of a corporation, or any person routinely performing such functions for a corporation.

Also Note: "N/A will not be accepted as a valid response. Where applicable, indicate "None."

All Officers of a Corporation or PC

**10% and greater shareholders of a corporation
or all shareholders of a PC**

All Equity partners of a Partnership

All Equity members of a LLC

If you need additional space for listing of Officers, Shareholders, Partners or Members, please attach separate page.

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

Part 2: Disclosure of Contributions by the business entity or any person or entity whose contributions are attributable to the business entity.

1. Report below all contributions solicited or made during the 4 years immediately preceding the commencement of negotiations or submission of a proposal to any:

Political organization organized under Section 527 of the Internal Revenue Code and which also meets the definition of a continuing political committee as defined in N.J.S.A. 19:44A-3(n)

2. Report below all contributions solicited or made during the 5 ½ years immediately preceding the commencement of negotiations or submission of a proposal to any:

Candidate Committee for or Election Fund of any Gubernatorial or Lieutenant Gubernatorial candidate
State Political Party Committee
County Political Party Committee

3. Report below all contributions solicited or made during the 18 months immediately preceding the commencement of negotiations or submission of a proposal to any:

Municipal Political Party Committee
Legislative Leadership Committee

Full Legal Name of Recipient _____	
Address of Recipient _____	
Date of Contribution _____	Amount of Contribution _____
Type of Contribution (i.e. currency, check, loan, in-kind) _____	
Contributor Name _____	
Relationship of Contributor to the Vendor _____	
If this form is not being completed electronically, please attach additional contributions on separate page. Click the "Add a Contribution" tab to enter additional contributions.	
<input type="button" value="Remove Contribution"/>	
<input type="button" value="Add a Contribution"/>	

- ☐ Check this box only if no political contributions have been solicited or made by the business entity or any person or entity whose contributions are attributable to the business entity.

Part 3: Certification (Check one box only)

- (A) ☐ I am certifying on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity as listed on Page 1 under **Part 1: Vendor Information**.
- (B) ☐ I am certifying on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity as listed on Page 1 under **Part 1: Vendor Information**, except for the individuals and/or entities who are submitting separate Certification and Disclosure forms which are included with this submittal.
- (C) ☐ I am certifying on behalf of the business entity only; any remaining persons or entities whose contributions are attributable to the business entity (as listed on Page 1) have completed separate Certification and Disclosure forms which are included with this submittal.
- (D) ☐ I am certifying as an individual or entity whose contributions are attributable to the business entity.

I hereby certify as follows:

1. I have read the Information and Instructions accompanying this form prior to completing the certification on behalf of the business entity.
2. All reportable contributions made by or attributable to the business entity have been listed above.

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

3. The business entity has not knowingly solicited or made any contribution of money, pledge of contribution, including in-kind contributions, that would bar the award of a contract to the business entity unless otherwise disclosed above:

- a) Within the 18 months immediately preceding the commencement of negotiations or submission of a proposal for the contract or agreement to:
- (i) A candidate committee or election fund of any candidate for the public office of Governor or Lieutenant Governor or to a campaign committee or election fund of holder of public office of Governor or Lieutenant Governor; OR
 - (ii) Any State, County or Municipal political party committee; OR
 - (iii) Any Legislative Leadership committee.
- b) During the term of office of the current Governor or Lieutenant Governor to:
- (i) A candidate committee or election fund of a holder of the public office of Governor or Lieutenant Governor; OR
 - (ii) Any State or County political party committee of the political party that nominated the sitting Governor or Lieutenant Governor in the last gubernatorial election.
- c) Within the 18 months immediately preceding the last day of the sitting Governor or Lieutenant Governor's first term of office to:
- (i) A candidate committee or election fund of the incumbent Governor or Lieutenant Governor; OR
 - (ii) Any State or County political party committee of the political party that nominated the sitting Governor or Lieutenant Governor in the last gubernatorial election.

4. During the term of the contract/agreement the business entity has a continuing responsibility to report, by submitting a new Certification and Disclosure form, any contribution it solicits or makes to:

- (a) Any candidate committee or election fund of any candidate or holder of the public office of Governor or Lieutenant Governor; OR
- (b) Any State, County or Municipal political party committee; OR
- (c) Any Legislative Leadership committee.

The business entity further acknowledges that contributions solicited or made during the term of the contract/agreement may be determined to be a material breach of the contract/agreement.

5. During the two-year certification period the business entity will report any changes in its ownership structure (including the appointment of an officer within a corporation) by submitting a new Certification and Disclosure form indicating the new owner(s) and reporting said owner(s) contributions.

I certify that the foregoing statements in Parts 1, 2 and 3 are true. I am aware that if any of the statements are willfully false, I may be subject to punishment.

Signed Name _____ Print Name _____

Title/Position _____ Date _____

Procedure for Submitting Form(s)

The contracting State Agency should submit this form to the Chapter 51 Review Unit when it has been required as part of a contracting process. The contracting State Agency should submit a copy of the completed and signed form(s), to the Chapter 51 Unit and retain the original for their records.

The business entity should return this form to the contracting State Agency. The business entity can submit this form directly to the Chapter 51 Review Unit only when it -

- Is approaching its two-year certification expiration date and wishes to renew certification;
- Had a change in its ownership structure; OR
- Made any contributions during the period in which its last two-year certification was in effect, or during the term of a contract with a State Agency.

Forms should be submitted either electronically to: cd134@treas.nj.gov , or regular mail at: Chapter 51 Review Unit, P.O. Box 230, 33 West State Street, Trenton, NJ 08625.

**Meadowlands Pump Station Generator Replacement
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**STATE OF NEW JERSEY
DEPARTMENT OF THE TREASURY
DIVISION OF PURCHASE AND PROPERTY**

**33 WEST STATE STREET, P.O. BOX 0230
TRENTON, NEW JERSEY 08625-0230**

**VENDOR/BIDDER CERTIFICATION AND POLITICAL CONTRIBUTION DISCLOSURE FORM
PUBLIC LAW 2005, CHAPTER 271**

CONTRACT #: _____

VENDOR/BIDDER: _____

At least ten (10) days prior to entering into the above-referenced Contract, the Vendor/Bidder must complete this Certification and Political Contribution Disclosure Form in accordance with the directions below and submit it to the State contact for the referenced Contract.

NOTE that the disclosure requirements under Public Law 2005, Chapter 271 are separate and different from the disclosure requirements under Public Law 2005, Chapter 51 (formerly Executive Order 134). Although no Vendor/Bidder will be precluded from entering into a contract by any information submitted on this form, a Vendor's/Bidder's failure to fully, accurately and truthfully complete this form and submit it to the appropriate State agency may result in the imposition of fines by the New Jersey Election Law Enforcement Commission.

DISCLOSURE

The following is the required Vendor/Bidder Disclosure of all Reportable Contributions made in the twelve (12) months prior to and including the date of signing of this Certification and Disclosure to: (i) any State, county, or municipal committee of a political party, legislative leadership committee, candidate committee of a candidate for, or holder of, a State elective office, or (ii) any entity that is also defined as a "continuing political committee" under N.J.S.A. 19:44A-3(n) and N.J.A.C. 19:25-1.

The Vendor/Bidder is required to disclose Reportable Contributions by: the Vendor/Bidder itself; all persons or other business entities owning or controlling more than 10% of the profits of the Vendor/Bidder or more than 10% of the stock of the Vendor/Bidder, if the Vendor/Bidder is a corporation for profit; a spouse or child living with a natural person that is a Vendor/Bidder; all of the principals, partners, officers or directors of the Vendor/Contractor and all of their spouses; any subsidiaries directly or indirectly controlled by the Vendor/Bidder; and any political organization organized under section 527 of the Internal Revenue Code that is directly or indirectly controlled by the Vendor/Bidder, other than a candidate committee, election fund, or political party committee.

"Reportable Contributions" are those contributions that are required to be reported by the recipient under the "New Jersey Campaign Contributions and Expenditures Reporting Act," P.L. 1973, c.83 (C.19:44A-1 et seq.), and implementing regulations set forth at N.J.A.C. 19:25-10.1 et seq. As of January 1, 2005, contributions in excess of \$300 during a reporting period are deemed "reportable."

Name and Address of Committee to which a Reportable Contribution was made	Date of Reportable Contribution	Amount of Reportable Contribution	Contributor's Name
Indicate "NONE" if no Reportable Contribution was made.			
		\$	
		\$	
		\$	
		\$	
Attach additional sheets if necessary			

CERTIFICATION

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor/Bidder, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the State of New Jersey is relying on the information contained herein, and that the Vendor/Bidder is under a continuing obligation from the date of this certification through the completion of any contract(s) with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I will be subject to criminal prosecution under the law, and it will constitute a material breach of **my** agreement(s) with the State, permitting the State to declare any contract(s) resulting from this certification void and unenforceable.

Signature

Date

Print Name and Title

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**



DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN FORM

STATE OF NEW JERSEY
DEPARTMENT OF THE TREASURY - DIVISION OF PURCHASE AND PROPERTY
33 WEST STATE STREET, P.O. BOX 230 TRENTON, NEW JERSEY 08645-0130

BID SOLICITATION # AND TITLE: _____

VENDOR/BIDDER NAME: _____

Pursuant to N.J.S.A. 52:32-57, et seq. (P.L. 2012, c.25 and P.L. 2021, c.4) any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must certify that neither the person nor entity, nor any of its parents, subsidiaries, or affiliates, is identified on the New Jersey Department of the Treasury's Chapter 25 List as a person or entity engaged in investment activities in Iran. The Chapter 25 list is found on the Division's website at <https://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf>. Vendors/Bidders must review this list prior to completing the below certification. If the Director of the Division of Purchase and Property finds a person or entity to be in violation of the law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

CHECK THE APPROPRIATE BOX

☐ I certify, pursuant to N.J.S.A. 52:32-57, et seq. (P.L. 2012, c.25 and P.L. 2021, c.4), that neither the Vendor/Bidder listed above nor any of its parents, subsidiaries, or affiliates is listed on the New Jersey Department of the Treasury's Chapter 25 List of entities determined to be engaged in prohibited activities in Iran.

OR

☐ I am unable to certify as above because the Vendor/Bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on the New Jersey Department of the Treasury's Chapter 25 List. I will provide a detailed, accurate and precise description of the activities of the Vendor/Bidder, or one of its parents, subsidiaries or affiliates, has engaged in regarding investment activities in Iran by completing the information requested below.

Entity Engaged in Investment Activities
Relationship to Vendor/ Bidder
Description of Activities

Duration of Engagement
Anticipated Cessation Date

Attach Additional Sheets If Necessary.

CERTIFICATION

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor/Bidder, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the State of New Jersey is relying on the information contained herein, and that the Vendor/Bidder is under a continuing obligation from the date of this certification through the completion of any contract(s) with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I will be subject to criminal prosecution under the law, and it will constitute a material breach of my agreement(s) with the State, permitting the State to declare any contract(s) resulting from this certification void and unenforceable.

Signature

Date

Print Name and Title

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

FEDERAL NON-DEBARMENT CERTIFICATION

STANDARD BID DOCUMENT REFERENCE	
Name of Form:	FEDERAL NON-DEBARMENT CERTIFICATION
Statutory Reference:	N.J.S.A. 52:32-44.1 (P.L. 2019, c.406)
Description:	Meets statutory criteria for certification of non-debarment by a federal government agency.

Summary of the Certification Requirements under N.J.S.A. 52:32-44.1

Pursuant to state law any natural person, company, firm, association, corporation, or other entity prohibited, or “debarred,” from contracting with the federal government agencies, shall also be prohibited from contracting for public work in the state of New Jersey. This prohibition also extends to any affiliate organization(s) held by or subject to the control of an entity of that prohibited person or entity.

Prior to awarding a contract for public work a local units must obtain written certification from the contracting person or entity through the form below, attesting to their non-debarment from contracting with federal government agencies. Contracting units are reminded that they must fill-in the boilerplate information in the certification sections of Parts II through IV regarding their name and type of contracting unit before using the form.

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

**CERTIFICATION OF NON-DEBARMENT
FOR FEDERAL GOVERNMENT CONTRACTS**

N.J.S.A. 52:32-44.1 (P.L. 2019, c.406)

This certification shall be completed, certified to, and submitted to the contracting unit prior to contract award, except for emergency contracts where submission is required prior to payment.

PART I: VENDOR INFORMATION	
Individual or Organization Name	
Address of Individual or Organization	
DUNS Code (if applicable)	
CAGE Code (if applicable)	
Check the box that represents the type of business organization:	

- ☐ Sole Proprietorship (skip Parts III and IV) ☐ Non-Profit Corporation (skip Parts III and IV)
- ☐ For-Profit Corporation (any type) ☐ Limited Liability Company (LLC) ☐ Partnership
- ☐ Limited Partnership ☐ Limited Liability Partnership (LLP)
- ☐ Other (be specific): _____

PART II – CERTIFICATION OF NON-DEBARMENT: Individual or Organization			
I hereby certify that the individual or organization listed above in Part I is not debarred by the federal government from contracting with a federal agency. I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; that the New Jersey Sports and Exposition Authority is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the date of contract award by the municipality to notify the municipality in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the municipality , permitting the municipality to declare any contract(s) resulting from this certification void and unenforceable.			
Full Name (Print):		Title:	
Signature:		Date:	

**Meadowlands Pump Station Generator Replacement
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PART III – CERTIFICATION OF NON-DEBARMENT: Individual or Entity Owning Greater than 50 Percent of Organization	
Section A (Check the Box that applies)	
<input type="checkbox"/>	Below is the name and address of the stockholder in the corporation who owns more than 50 percent of its voting stock, or of the partner in the partnership who owns more than 50 percent interest therein, or of the member of the limited liability company owning more than 50 percent interest therein, as the case may be.
Name of Individual or Organization	
Home Address (for Individual) or Business Address	
OR	
<input type="checkbox"/>	No one stockholder in the corporation owns more than 50 percent of its voting stock, or no partner in the partnership owns more than 50 percent interest therein, or no member in the limited liability company owns more than 50 percent interest therein, as the case may be.
Section B (Skip if no Business entity is listed in Section A above)	
<input type="checkbox"/>	Below is the name and address of the stockholder in the corporation who owns more than 50 percent of the voting stock of the organization's parent entity, or of the partner in the partnership who owns more than 50 percent interest in the organization's parent entity, or of the member of the limited liability company owning more than 50 percent interest in organization's parent entity, as the case may be.
Stockholder/Partner/Member Owning Greater Than 50 Percent of Parent Entity	
Home Address (for Individual) or Business Address	
OR	
<input type="checkbox"/>	No one stockholder in the parent entity corporation owns more than 50 percent of its voting stock, no partner in the parent entity partnership owns more than 50 percent interest therein, or no member in the parent entity limited liability company owns more than 50 percent interest therein, as the case may be.

**Meadowlands Pump Station Generator Replacement
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Section C – Part III Certification			
<p>I hereby certify that no individual or organization that is debarred by the federal government from contracting with a federal agency owns greater than 50 percent of the Organization listed above in Part I or, if applicable, owns greater than 50 percent of a parent entity of _____ . I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; that the New Jersey Sports and Exposition Authority is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the date of contract award the municipality to notify the municipality in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the municipality, permitting the municipality to declare any contract(s) resulting from this certification void and unenforceable.</p>			
Full Name (Print):		Title:	
Signature:		Date:	

Part IV – CERTIFICATION OF NON-DEBARMENT: Contractor – Controlled Entities	
Section A	
<input type="checkbox"/>	<p>Below is the name and address of the corporation(s) in which the Organization listed in Part I owns more than 50 percent of voting stock, or of the partnership(s) in which the Organization listed in Part I owns more than 50 percent interest therein, or of the limited liability company or companies in which the Organization listed above in Part I owns more than 50 percent interest therein, as the case may be.</p>
Name of Business Entity	Business Address
Add additional sheets if necessary	
OR	
<input type="checkbox"/>	<p>The Organization listed above in Part I does not own greater than 50 percent of the voting stock in any corporation and does not own greater than 50 percent interest in any partnership or any limited liability company.</p>

**Meadowlands Pump Station Generator Replacement
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Section B (skip if no business entities are listed in Section A of Part IV)			
<input type="checkbox"/>	Below are the names and addresses of any entities in which an entity listed in Part III A owns greater than 50 percent of the voting stock (corporation) or owns greater than 50 percent interest (partnership or limited liability company).		
Name of Business Entity Controlled by Entity Listed in Section A of Part IV		Business Address	
Add additional Sheets if necessary			
OR			
<input type="checkbox"/>	No entity listed in Part III A owns greater than 50 percent of the voting stock in any corporation or owns greater than 50 percent interest in any partnership or limited liability company.		
Section C – Part IV Certification			
<p>I hereby certify that the Organization listed above in Part I does not own greater than 50 percent of any entity that that is debarred by the federal government from contracting with a federal agency and, if applicable, does not own greater than 50 percent of any entity that in turns owns greater than 50 percent of any entity debarred by the federal government from contracting with a federal agency. I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; that the New Jersey Sports and Exposition Authority is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the date of contract award by the municipality to notify the municipality in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the municipality, permitting the municipality to declare any contract(s) resulting from this certification void and unenforceable.</p>			
Full Name (Print):		Title:	
Signature:		Date:	

**Meadowlands Pump Station Generator Replacement
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MACBRIDE PRINCIPLES FORM

STATE OF NEW JERSEY
DEPARTMENT OF THE TREASURY - DIVISION OF PURCHASE AND PROPERTY
33 WEST STATE STREET, P.O. BOX 216 TRENTON, NEW JERSEY 08645-0216

BID SOLICITATION # AND TITLE:

VENDOR/BIDDER NAME:

VENDOR/BIDDER ADDRESS:

VENDOR/BIDDER PHONE NUMBER:

VENDOR/BIDDER EMAIL:

Pursuant to Public Law 1995, c. 134, a responsible Vendor/Bidder is required to provide a certification in compliance with the MacBride Principles and Northern Ireland Act of 1989. Pursuant to N.J.S.A. 52:34-12, Vendor/Bidder must complete the certification below by checking one of the two options listed below and signing where indicated. If a Vendor/Bidder that would otherwise be awarded a purchase, contract or agreement does not complete the certification, then the Director may determine, in accordance with applicable law and rules, that it is in the best interest of the State to award the purchase, contract or agreement to another Vendor/Bidder that has completed the certification and has submitted a bid within five (5) percent of the most advantageous bid. If the Director finds contractors to be in violation of the principles that are the subject of this law, he/she shall take such action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I, the undersigned, on behalf of the Vendor/Bidder, certify pursuant to N.J.S.A. 52:34-12.2 that:

CHECK THE APPROPRIATE BOX

☐ The Vendor/Bidder has no business operations in Northern Ireland; or

OR

☐ The Vendor/Bidder will take lawful steps in good faith to conduct any business operations it has in Northern Ireland in accordance with the MacBride principles of nondiscrimination in employment as set forth in section 2 of P.L. 1987, c. 177 (N.J.S.A. 52:18A-89.5) and in conformance with the United Kingdom's Fair Employment (Northern Ireland) Act of 1989, and permit independent monitoring of its compliance with those principles.

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor/Bidder, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the State of New Jersey is relying on the information contained herein, and that the Vendor/Bidder is under a continuing obligation from the date of this certification through the completion of any contract(s) with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I will be subject to criminal prosecution under the law, and it will constitute a material breach of my agreement(s) with the State, permitting the State to declare any contract(s) resulting from this certification to be void and unenforceable.

Signature

Date

Print Name and Title

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**



**CERTIFICATION OF NON-INVOLVEMENT IN PROHIBITED ACTIVITIES
IN RUSSIA OR BELARUS PURSUANT TO P.L.2022, c.3**

CONTRACT / BID SOLICITATION TITLE

CONTRACT / BID SOLICITATION No.

CHECK THE APPROPRIATE BOX

☐

I, the undersigned, am authorized by the person or entity seeking to enter into or renew the contract identified above, to certify that the Vendor/Bidder is not engaged in prohibited activities in Russia or Belarus as such term is defined in [P.L.2022, c.3](#),¹ section 1.a, except as permitted by federal law.

I understand that if this statement is wilfully false, I may be subject to penalty, as set forth in P.L.2022, c.3, section 1.d.

OR

☐

I, the undersigned am unable to certify above because the person or entity seeking to enter into or renew the contract identified above, or one of its parents, subsidiaries, or affiliates may have engaged in prohibited activities in Russia or Belarus. A detailed, accurate and precise description of the activities is provided below.

Failure to provide such description will result in the Quote being rendered as non-responsive, and the Department/Division will not be permitted to contract with such person or entity, and if a Quote is accepted or contract is entered into without delivery of the certification, appropriate penalties, fines and/or sanctions will be assessed as provided by law.

Description of Prohibited Activity

Attach Additional Sheets if Necessary.

If you certify that the bidder is engaged in activities prohibited by P.L. 2022, c. 3, the bidder shall have 90 days to cease engaging in any prohibited activities and on or before the 90th day after this certification, shall provide an updated certification. If the bidder does not provide the updated certification or at that time cannot certify on behalf of the entity that it is not engaged in prohibited activities, the State shall not award the business entity any contracts, renew any contracts, and shall be required to terminate any contract(s) the business entity holds with the State that were issued on or after the effective date of P.L. 2022, c. 3.

Signature of Authorized Representative

Date

Print Name and Title of Authorized Representative

Vendor Name

¹ Engaged in prohibited activities in Russia or Belarus¹ means (1) companies in which the Government of Russia or Belarus has any direct equity share; (2) having any business operations commencing after the effective date of this act that involve contracts with or the provision of goods or services to the Government of Russia or Belarus; (3) being headquartered in Russia or having its principal place of business in Russia or Belarus, or (4) supporting, assisting or facilitating the Government of Russia or Belarus in their campaigns to invade the sovereign country of Ukraine, either through in-kind support or for profit.

**Meadowlands Pump Station Generator Replacement
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SECTION 00500

**STATE OF NEW JERSEY
NEW JERSEY SPORTS & EXPOSITION AUTHORITY**

CONTRACT for PROJECT CN-274

This Contract, effective on the latest date of signature at the last page, by and between the New Jersey Sports & Exposition Authority, One DeKorte Park Plaza, Lyndhurst, New Jersey, 07071, hereinafter called the NJSEA, the party of the first part, and:

hereinafter called the Contractor, the party of the second part.

WITNESSETH, that whereas the NJSEA intends to execute the Contract for NJSEA Meadowlands Pump Station Generator Replacement hereinafter called the Project or the Work, in accordance with Specifications, and other Contract Documents.

1.0 PARTS OF CONTRACT:

1.1 The parties agree that the conditions contained in the following documents which comprise and are hereinafter called the Contract Documents are made part of this Contract and are binding on both parties as if all conditions contained in the Contract Documents were set forth in this Contract:

- 00010 Advertisement for Bids
- 00100 Instructions to Bidders
- 00300 Bid
- 00400 Bid Forms
- 00500 Contract
- 00700 General Conditions
- 00800 Specific Project Requirements
- 00900 Environmental Requirements
- 01000 General Requirements
- 02000 Technical Specifications
 - Photos and Drawings
 - Addenda
 - Change Orders

2.0 TIME FOR COMPLETION:

2.1 Work under this Contract shall be completed within 180 consecutive calendar days from the date specified from the Notice-To-Proceed

**Meadowlands Pump Station Generator Replacement
PROJECT CN-274**

- 2.2 **The Contractor shall pay to the NJSEA for each and every calendar day that they shall be in default in completing the work within the time stipulated, liquidated damages in the sum of five hundred (\$500) per day. Please note that there is no substantial completion for this work. All final submittals (as built, subcontractor releases) as well as all work must be completed within the 180 days.+**

WITNESSETH, that the said CONTRACTOR, for and in consideration of the payments specified hereinafter and agreed to be made by the NJSEA, hereby covenants and agrees to furnish and deliver all the materials and perform all the work required to be furnished in and about the described premises in strict and entire conformance with all of the Contract Documents.

3.0 SUBCONTRACTORS:

- 3.1 The Contractor agrees to bind every subcontractor by the terms of the Contract Documents. The Contract Documents shall not be construed as creating any contractual relations between any subcontractor and the NJSEA. Relations between the Contractor and subcontractors are further defined in the GENERAL CONDITIONS.

4.0 WORK:

- 4.1 The Contractor agrees to furnish all the necessary labor, materials, equipment, tools, and services necessary to perform and complete all work required for the construction of the Project, in strict compliance with the Contract Documents herein mentioned, which are hereby made a part of the Contract, including the following Addenda:

<u>ADDENDUM No.</u>	<u>DATE</u>
_____	_____
_____	_____

5.0 PRICES FOR WORK:

- 5.1 The NJSEA shall pay based on the prices in the bid, and the Contractor shall receive the prices stipulated in the bid as full compensation for everything furnished and performed by the Contractor under this Contract, including all work required but not specifically mentioned, and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of every description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, and for well and faithfully completing the work and the whole thereof, as herein provided.

**Meadowlands Pump Station Generator Replacement
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6.0 PAYMENTS:

6.1 Payments will be made in accordance with the GENERAL CONDITIONS

6.2 In consideration of the covenants contained herein, the NJSEA hereby agrees to pay the CONTRACTOR for said work.

The cost for the Work of this Contract shall not exceed \$_____.

\$_____

(Amount in Words)

7.0 WAIVERS:

7.1 Neither the inspection by the NJSEA nor any of its agents, nor any orders, measurements of certificate by the Project Representative, nor any order by the NJSEA for the payment of money nor payment for, nor acceptance of, the whole nor any part of the work by the NJSEA nor any extension of time nor any possession taken by the NJSEA or its employees, shall operate as a waiver of any provision of this Contract, or of any power herein reserved to the NJSEA, or any right to damages herein provided, nor shall any waiver of any breach of this Contract be held to be a waiver of any other or subsequent breach. Any remedy provided in this Contract shall be taken and construed as cumulative, that is, in addition to each and every other remedy herein provided, and in addition to all other suits, actions, or legal proceedings, the NJSEA shall also be entitled as of right to writ of injunction against any breach of any of the provisions of this Contract.

8.0 INDEMNIFICATION:

8.1 The Contractor shall assume all risk of, and responsibility for, and agrees to indemnify, defend, and save harmless the NJSEA, the project Representative and their employees from and against any and all claims, demands, suits, actions, recoveries, judgments and costs and expenses in connection therewith on account of the loss of life, property, injury, or damage to the person, body or property of any person or persons whatsoever, which shall arise from or result directly or indirectly from the work and/or materials supplied under this Contract. This indemnification obligation is not limited by, but is in addition to, the insurance obligations contained in this Contract.

9.0 PROJECT REPRESENTATIVE'S STATUS DURING THE PROJECT:

9.1 All work under this Contract shall be done under the observation of the Project Representative. The Project Representative shall decide any and all questions that may arise as to the quality and acceptability of materials furnished, work performed, rate of progress of work, interpretation of Plans and Specifications, and all questions as to the acceptable fulfillment of the Contract on the part of the Contractor.

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- 9.2 The Project Representative shall be an employee or agent of NJSEA. In addition, the Project Representative may designate additional individuals to act on his/her behalf on a temporary basis, depending on the type of work occurring at the Project Site. At all times, these individuals shall have the same responsibilities and authority as the Project Representative. In addition, throughout the Contract Documents, the term "Project Representative" refers to the Project Representative and his/her designates.
- 9.3 The Project Representative shall make visits to the site to observe the progress and quality of the executed Work and to determine if it is proceeding in accordance with the Contract Documents. On the basis of such visits and observations, the Project Representative will keep the NJSEA informed of the quality and progress of the Work.
- 9.4 The Project Representative may authorize minor variations in the Work, which do not involve an adjustment in the Contract Price or the Contract Time and are consistent with the overall intent of the Contract Documents. If the Contractor believes that a variation issued as minor justifies an increase in the Contract Price and/or an extension of the Contract Time, the Contractor may make a claim therefore.
- 9.5 The Project Representative may reject Work believed to be defective. The Project Representative also has the authority to require special inspection and testing of the Work, whether or not it has been fabricated, installed or completed.
- 9.6 The Project Representative shall not be responsible for the means, methods, techniques, sequences or procedures of the Contractor's performance of the Work, or the safety programs and precautions incident thereto. The Project Representative will not be responsible for the failure of the Contractor to furnish or perform the Work in accordance with the Contract Documents.
- 9.7 The Project Representative will not be responsible for acts of omission by the Contractor or any of his subcontractors or suppliers furnishing or performing any of the Work.
- 10.0 CONTRACTOR'S BANKRUPTCY:**
- 10.1 In the event of bankruptcy of the Contractor, the NJSEA shall use the Performance and Payment Bond to complete the project. The Performance and Payment Bond shall specifically include coverage and protection against bankruptcy of the Contractor.

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11.0 SUCCESSORS AND ASSIGNS:

11.1 This Contract and all of the covenants hereof shall inure to the benefit of and be binding upon the NJSEA and the Contractor respectively and partners, successors, assigns and legal representatives. Neither the NJSEA nor the Contractor shall have the right to assign, transfer or sublet his interests or obligations hereunder without notice to and written consent of the other party.

IN WITNESS THEREOF, _____
and the NJSEA have executed this Contract at the place and on the date immediately adjacent to their respective signatures.

FOR THE CONTRACTOR:

(Witness)

(Typed Name of Firm)

(Date)

(Signature of Bidder)

(Typed Name of Bidder)

(Typed Title of Bidder)

FOR THE NJSEA:

(Witness)

Vincent Prieto,
President and Chief Executive Officer

(Date)

END OF SECTION 00500

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SECTION 00700

GENERAL CONDITIONS

1.0 DEFINITIONS:

- 1.1 Whenever used in these Contract Documents, the following terms and abbreviations have the meanings indicated, which are applicable to both the singular and plural thereof:

Addendum(a) - Written instructions issued prior to the opening of Bids which clarify, correct or change the bidding requirements or the Contract Documents.

Bid - The proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

Bidder - Any corporation, partnership, or individual who submits a bid for the Work.

Change Order - A document recommended by the Project Representative, signed by the Contractor and the NJSEA, authorizing an addition, deletion or revision in the Work, an adjustment in the Contract Price, Time, and/or Conditions, and issued on or after the Effective Date of the Contract.

Contract - The written Contract between the NJSEA and the Contractor covering the Work to be performed. Other Contract Documents are attached to it and made a part thereof, as provided in the Contract.

Contractor - The company to whom the Contract has been awarded and who is responsible for performing the Work.

Day - A calendar period of twenty-four (24) hours, beginning with midnight and ending just before the following midnight, shall constitute a day. When unmodified, it shall mean a calendar day, and not a working day.

NJSEA - The New Jersey Sports & Exposition Authority.

NJDEP or DEP - New Jersey Department of Environmental Protection

Project - The total construction or obligation under the Contract, of which the Work to be provided may be the whole or a part, as indicated elsewhere in the Contract Documents.

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Project Representative - The person, firm, or corporation named by the NJSEA to be its representative for the Project.

Successful Bidder - The Contractor, the lowest qualified, responsible bidder to whom the NJSEA awarded the Contract.

Work - The entire completed construction, or the various separately identifiable parts thereof required to be furnished under the Contract Documents. Work is the result of performing services, furnishing labor, and furnishing and incorporating materials and equipment into the construction, all as required by the Contract Documents.

Working Day - A day on which the NJSEA is open for business.

SCHEDULED HOLIDAYS

Friday, December 31, 2021 (Observed)	New Year's Day
Monday, January 17, 2022	Martin Luther King, Jr. Day
Monday, February 21, 2022	President's Day
Friday, April 15, 2022	Good Friday
Monday, May 30, 2022	Memorial Day
Friday, June 17, 2022 (Observed)	Juneteenth
Monday, July 4, 2022	Independence Day
Monday, September 5, 2022	Labor Day
Monday, October 10, 2022	Columbus Day
Tuesday, November 8, 2022	Election Day
Friday, November 11, 2022	Veteran's Day
Thursday, November 24, 2022	Thanksgiving Day
Monday, December 26, 2022 (Observed)	Christmas Day

2.0 PRELIMINARY MATTERS:

- 2.1 The Contractor shall deliver the executed Contracts bonds, insurance certificates, and other documents as the Contractor may be required to furnish at the times required by the Contract Documents.
- 2.2 The NJSEA shall furnish the Contractor a maximum of six copies of the Contract Documents for his use in the execution of the Work. Additional copies will be furnished, upon request, at the cost of reproduction.
- 2.3 The Contract Time will commence to run on the starting date given in the Notice-To-Proceed. A Notice-To-Proceed may be issued any time within thirty (30) days after the Contract is fully executed.

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- 2.4 The Contractor shall start to perform the Work on the date when the Contract Time commences to run. No Work shall be performed at the site prior to that date.
- 2.5 Before undertaking each part of the Work, the Contractor shall carefully study and compare the Contract Documents and the field conditions, checking and verifying pertinent figures shown in the Documents with applicable field measurements. The Contractor shall promptly report in writing to the Project Representative any conflict, error, or discrepancy that he may discover; and shall obtain a written interpretation or clarification from the Project Representative before proceeding with any Work affected thereby. However, the Contractor shall not be liable to the NJSEA or the Project Representative for failure to report any conflict, error, or discrepancy in the Contract Documents; unless the Contractor had actual knowledge, or should reasonably have known thereof.
- 2.6 The progress schedule will be accepted by the Project Representative as providing an orderly progression of the Work to completion, and a workable arrangement for reviewing and processing the required submittals. Such acceptance will not impose on the Project Representative any responsibility for the sequencing, scheduling, or progress of the Work; or relieve the Contractor of his full responsibility therefore.
- 2.7 Except where the Contract Documents specifically allow the reuse of existing materials, all materials and equipment provided by the Contractor shall be new and of good quality. They shall be applied, erected, installed, connected, tested, cleaned, and conditioned in accordance with the instructions of the applicable suppliers, unless otherwise specified in the Contract Documents.
- 2.8 Whenever materials or equipment are specified by using the name of a particular manufacturer, supplier, or proprietary item; the naming is intended to establish the type, function, and quality required. Unless the name is followed by words indicating no substitution will be permitted, substitute materials or equipment may be acceptable. If the Contractor wishes to furnish or use substitute materials or equipment, he shall make a written application to the Project Representative for acceptance thereof; certifying that the proposed substitutes will perform their functions adequately and achieve the results desired by the Contract Documents. The application shall also state that the evaluation and acceptance of the proposed substitutes will not prejudice the Contractor's achievement of on-time completion of the Work; regardless of any needed changes to the Contract Documents, or any other problems directly or indirectly associated with acceptance of the substitutes (including payment of any license fee or royalty). All variations from the Contract Documents must be identified in the application, along with the availability of spare parts, maintenance, repair, and

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replacement services. The application shall also contain an itemized list of all additional direct and indirect costs due to the acceptance of such substitutes. All of the above will be considered by the Project Representative in evaluating each application. The Project Representative may require the Contractor to furnish additional data about the proposed substitutes at the Contractor's expense.

- 2.9 Except in connection with safety or protection of the Work, property, or persons at the site or adjacent thereto; all work shall be performed during regular working hours. The Contractor shall not permit overtime work, or the performance of work on Saturdays, Sundays, or any NJSEA holidays without written approval from the NJSEA.
 - 2.10 Although it is understood that the Contractor must be permitted to select the equipment that will provide him with the most economical rate of production, and to devise his work methods and schedules to expedite the completion of the Work; it is not intended that the Contractor will be permitted to use equipment or methods which may damage any part of the site or nearby properties, or conflict with any state or local laws.
 - 2.11 The duties and obligations imposed by this Section (and the rights and remedies available hereunder to the parties hereto) are in addition to any rights and remedies available to the parties; whether imposed or available by applicable regulations or laws, or by special warranties, guarantees, or other provisions of the Contract Documents. This Section is not to be construed as limiting in any way the other rights and remedies outlined above. The provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply. All representations, warranties, and guarantees made in the Contract Documents will survive completion, final payment, and termination of the Contract.
- 3.0 CONTRACT DOCUMENTS: INTENT, AMENDMENT, AND RE-USE:**
- 3.1 The Contract Documents comprise the entire Contract between the NJSEA and the Contractor concerning the Work. The Contract Documents are complementary (what is called for by one is as binding as if called for by all). The Contract Documents will be construed in accordance with the law of the place of the Project.
 - 3.2 It is the intent of the Contract Documents to describe a functionally complete Project to be performed in accordance with the Contract Documents. Any Work, materials, or equipment that may reasonably be inferred as being necessary to produce the intended result shall be supplied, whether or not specifically mentioned in the Documents. When words or phrases having a well-known

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technical or trade meaning are used to describe work, materials, or equipment; such words shall be interpreted in accordance with that meaning. Clarifications and interpretations of the Contract Documents shall be issued by the Project Representative as needed, in accordance with paragraph 8.3.

- 3.3 Reference to standards, specifications, manuals, and/or codes of any technical society, organization, or association, or to the laws or regulations of any governmental authority (whether such reference be specific or implied), shall mean the latest standards, specifications, manuals, codes, laws, or regulations in effect at the time of bid opening, unless specifically stated otherwise in the Contract Documents. If the Contractor finds a conflict, error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any of the above references, during the performance of the Work; he shall immediately report it to the Project Representative in writing. Before proceeding with affected work, the Contractor shall obtain a written interpretation or clarification from the Project Representative (except for an emergency authorized in accordance with paragraph 6.16). The Contractor shall not be liable to the NJSEA or the Project Representative for failure to report any such conflict, error, ambiguity, or discrepancy; unless he knew or should reasonably have known thereof.
- 3.4 Except as otherwise specifically stated therein, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:
- A. The provision of any such standard, specification, manual or code.
 - B. The provision of any such laws or regulations applicable to the performance of the Work (unless such an interpretation would result in a violation of such law or regulation).
- 3.5 No provision of any such standard, specification, manual or code shall change the duties and responsibilities of the NJSEA, the Contractor, or the Project Representative, or any of their subcontractors, consultants, agents, or employees from those set forth in the Contract Documents. No such provision shall be effective to assign to the NJSEA, the Project Representative, or any of the Project Representative's consultants, agents, or employees any duty or authority to supervise or direct the furnishing or performance of the Work, or any duty or authority to undertake responsibilities inconsistent with any other provision of the Contract Documents.
- 3.6 Whenever in the Contract Documents the terms "as ordered," "as directed," "as required," "as allowed," "as approved" or terms of like effect or import, or the adjectives "reasonable," "suitable," "acceptable," "proper," "satisfactory" or

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adjectives of like effect or import, are used to describe a requirement, direction, review, or judgment of the Project Representative regarding the Work; it is intended that such requirement, direction, review or judgment will be solely to generally evaluate the completed Work for compliance with the Contract Documents and conformance with the design concept of the completed Project. The use of any such terms or adjectives shall not assign to the Project Representative any duty or authority to supervise or direct the furnishing or performance of the Work; or any duty or authority to undertake responsibilities contrary to any other provision of the Contract Documents.

3.7 The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work, or to modify the terms and conditions thereof, by a Change Order.

3.8 Neither the Contractor, nor any subcontractor, supplier, organization, or other person performing or furnishing any of the Work, shall have or acquire any title to, or ownership rights in, any of the Contract Documents or copies thereof. They shall not reuse them on extensions of this, or any other project without the written consent of the NJSEA and the Project Representative, and without the specific written verification or adaptation by the Project Representative.

4.0 AVAILABILITY OF LANDS, REFERENCE POINTS, SUBSURFACE AND PHYSICAL CONDITIONS:

4.1 The NJSEA shall furnish, as indicated in the Contract Documents, the lands upon which the Work shall be performed, rights-of-way and easements for access thereto, and such other lands designated for the use of the Contractor. Easements for permanent structures or permanent changes to the existing facilities will be obtained and paid for by the NJSEA, unless otherwise noted in the Contract Documents. The Contractor shall provide for all additional lands, and access thereto, that may be required for any temporary construction facilities, or the storage of materials and equipment.

4.2 The NJSEA shall furnish, as indicated on the Contract Drawings, reference points so the Contractor can properly proceed with the Work. The Contractor shall be responsible for laying out the Work. The Contractor shall protect and preserve the established reference points and shall not change or relocate the reference points without written approval of the NJSEA. The Contractor shall report to the Project Representative whenever any reference point is lost, damaged or destroyed and shall pay for the reestablishment of all lost, damaged or destroyed reference points. The reference points shall be reestablished by a surveyor licensed in the State of New Jersey.

4.3 The information shown and/or described in the Contract Documents with respect to existing underground facilities at or contiguous to the site is based on

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the best available data. The NJSEA and the Project Representative shall not be responsible for the accuracy or completeness of any such information. The Contractor shall review and check all such information, and determine the exact location of all underground facilities in the field. The Contractor shall be responsible for the safety and protection of underground facilities during construction, and shall repair any damage thereto resulting from the Work.

- 4.4 If an underground facility, which was not shown in the Contract Documents, is uncovered or revealed at or contiguous to the site; the Contractor shall promptly identify the owner of the facility, and give written notice to the owner of that facility, the NJSEA, and the Project Representative. The Contractor will cease work in the area, except in the case of an emergency. The Project Representative shall promptly review the location of the underground facility in relation to the contractual work in the area, and determine what change, if any, is required to the Contract Documents.
- 4.5 If the Contractor believes that any physical condition uncovered or revealed at the site differs materially from that shown in the Contract Documents; he shall immediately notify the Project Representative in writing. Before proceeding with affected work, the Contractor shall obtain a written interpretation or clarification from the Project Representative.
- 4.6 The Project Representative will review the Contractor's findings, determine the necessity of obtaining any additional explorations or tests with respect thereto; and advise the NJSEA and the Contractor of the Project Representative's conclusions in writing within a reasonable amount of time.
- 4.7 If the Project Representative concludes that there is a material difference between the conditions shown in the Contract Documents and those in the field; a Change Order will be issued to document the increase or decrease in the Contract Price, and/or an extension or reduction of the Contract Time, attributable to the difference in the conditions.

5.0 BONDS AND INSURANCE:

- 5.1 Refer to the SPECIFIC PROJECT REQUIREMENTS for information regarding bonds and insurance.

6.0 CONTRACTOR'S RESPONSIBILITIES:

- 6.1 The Contractor shall be responsible for obtaining and paying all construction permits and licenses; and shall pay all inspection fees associated with the prosecution of the Work. The Contractor shall also schedule and pay for all utility connections required for the Work.

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- 6.2 The Contractor shall perform the Work in accordance with the Contract Documents. The Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of his work. The Contractor shall be responsible for the finished Work complying accurately with the Contract Documents.
- 6.3 The Contractor shall provide someone on staff that is available to the NJSEA to resolve contractual items that the foreman cannot, for example, scheduling of equipment or crew. There is no separate pay for any other personnel.
- 6.4 The Contractor shall be responsible for providing competent, suitably qualified personnel to survey, layout, and perform the Work required by the Contract Documents. The Contractor shall maintain good discipline and order at the site. The Contractor shall be responsible for removing any person from the site who appears to be incompetent, unfaithful, disorderly, or otherwise unsatisfactory. Said person shall not again be employed at the site without the written consent of the NJSEA.
- 6.5 The Contractor shall be responsible for compliance with the provisions of the Contract Work Hours and Safety Standards Act, Public Law 87-581.
- 6.6 The Contractor and his subcontractors shall give preference in the hiring of workers to qualified local residents, with first preference being given to citizens of the United States who have served in the armed forces of the United States, and have been honorably discharged and from active duty.
- 6.7 The Contractor shall be responsible for the proper and timely submittal of the required documents for all equipment and materials so as to not delay the progress of the Work. The Contractor shall determine delivery availability for all items to be furnished and shall order all long-lead items as soon as possible after the award of the contract, to ensure delivery in time to complete the work in the time available.
- 6.8 The Contractor shall be fully responsible to the NJSEA and the Project Representative for all acts and omissions of his subcontractors, suppliers, organizations, and other persons performing or furnishing any of the Work. Nothing in the Contract Documents shall create any contractual relationship between the NJSEA or the Project Representative, and any such subcontractor, supplier, organization, or other person.
- 6.9 The Contractor shall give all notices and comply with all laws and regulations applicable to furnishing and performing the Work. If the Contractor performs any work that is contrary to such laws and/or regulations, he shall be

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responsible for all costs arising there from. If the Contractor observes that the Contract Documents are at variance with these laws and/or regulations, he shall promptly notify the Project Representative, in writing. Any necessary changes to the Work will be authorized by a Change Order.

- 6.10 If the Contractor elects to remove, replace, or relocate any poles, utilities, or structures during the performance of the Work; he shall be responsible for making all the necessary arrangements and obtaining all the necessary permits and approvals without the involvement of the NJSEA or the Project Representative.
- 6.11 The Contractor shall be responsible for all damages resulting from the performance of the Work. Should any claim be made against the NJSEA and/or the Project Representative as a result of the performance of the Work; the Contractor shall attempt to promptly settle with such other party.
- 6.12 The Contractor shall not load any part of the Work in a manner that will endanger the Work. The Contractor shall be responsible for damage caused to the Work and to adjacent property, subject to said dangerous stresses or pressures.
- 6.13 The Contractor shall be responsible for initiating, maintaining, and supervising all safety programs and precautions regarding the Work. The Contractor shall comply with all applicable laws and regulations for the safety and protection of persons and property; and shall erect and maintain all necessary safeguards for such safety and protection. The Contractor shall remedy all damage, injury, or loss to any persons or property caused by the Contractor, or any of his subcontractors, suppliers, organizations, or other persons directly or indirectly employed by any of them. The Contractor's duties and responsibilities for safety and protection shall continue until the Project Representative has issued a notice to the NJSEA and the Contractor that the Work has been completed and is acceptable.
- 6.14 The Contractor shall be responsible for repairing any damage caused by his operations that could affect public health and safety, within four hours; or the NJSEA may have the repairs made by others at the expense of the Contractor. The Contractor shall repair all other damage expeditiously. Until such time as said other damage is repaired by the Contractor and approved by the NJSEA, twice the amount of the Project Representative's cost estimate for the repairs will be withheld from the Contractor's progress payment.
- 6.15 In the event of an emergency affecting the safety or protection of persons, the Work, the site, or adjacent property; the Contractor shall be responsible to act to

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prevent threatened damage, injury, or loss without special instruction or approval from the Project Representative or the NJSEA.

- 6.16 The Contractor and his subcontractors shall protect the Work against any damage caused by the weather. If the Project Representative determines that any portion of Work has been damaged or injured by a failure on the part of the Contractor or his subcontractors to protect the Work; it shall be repaired, or removed and replaced, at the expense of the Contractor.
- 6.17 The Contractor shall be responsible for proceeding with the Work and adhering to the progress schedule during all disputes or disagreements with the NJSEA. No Work shall be delayed or postponed pending resolution of any disputes or disagreements.
- 6.18 If the Work is defective, or the Contractor fails to supply sufficiently skilled workers, suitable materials or equipment, or fails to furnish or perform the Work in a manner, which will guarantee conformance with the Contract Documents; the NJSEA or the Project Representative may order the Contractor to stop the Work until the cause for such order has been eliminated. However, this right of the NJSEA and the Project Representative to stop the Work shall not give rise to any duty on the part of either to exercise this right for the benefit of the Contractor, or any other party.
- 6.19 The Contractor and his subcontractors shall comply with the New Jersey Prevailing Wage Act and all amendments thereto. This Act is hereby made part of these Contract Documents as if it were included herein, in its entirety.
- 6.20 The Contractor shall maintain books, records, and other documents pertinent to the performance of the Work, in accordance with accepted accounting procedures and practices. The New Jersey Department of Labor, the NJSEA, and/or any of their duly authorized representatives shall have access to such books, records, and other documents for the purpose of inspection, auditing, and copying. The Contractor shall provide proper facilities for such access and inspection, and agrees to the disclosure of all information and reports resulting from access of the above records to any of the above agencies. Records shall be maintained and made available until three years from the date of final payment for the Project. Records which relate to any dispute, appeal, litigation, or settlement of claims arising out of such performance (or costs or items to which an audit exception has been taken); shall be maintained and made available until three years after the date of the resolution of each dispute, appeal, litigation, claim, or exception.

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- 6.21 The Contractor shall constantly give his personal attention to the faithful prosecution of the Work; and shall keep the Work under his personal control. The Contractor shall not sublet the Work as a whole or substantial part of the whole, without the previous written consent of the NJSEA. The Contractor shall not assign any of the Work, or any monies payable under this Contract (or his claim thereto), without the written consent of the NJSEA and the surety on the bond.
- 6.22 The Contractor shall pay to the NJSEA, and the NJSEA shall have the right to deduct the full amount of all expenses, losses, damages and costs from all monies due, or to become due, the Contractor as detailed in the SPECIFIC PROJECT REQUIREMENTS.
- 6.23 The Contractor shall take all necessary precautions to protect and preserve existing utilities, and improvements during all phases of the Work. The Contractor shall be solely responsible for any damage or disturbance of any existing utilities and improvements, and shall restore them to their original condition, at no cost to the NJSEA.
- 6.24 While performing the Work, the Contractor shall not encumber the premises with materials or equipment; and shall keep the premises free from accumulations of waste materials. At the completion of the Work, the Contractor shall remove all waste and surplus materials, tools, equipment, and machinery; and shall restore to original condition all property not designated for alteration by the Contract Documents.
- 6.25 The Contractor warrants and guarantees to the NJSEA and the Project Representative that all Work will be performed in accordance with the Contract Documents; and that the completed Project will not be defectively or improperly installed. The Contractor agrees that all work improperly performed shall be remedied, all defective Work shall be repaired or replaced, and all improperly installed Work shall be reinstalled correctly in accordance with the Contract Documents.
- 7.0 OTHER WORK:**
- 7.1 The NJSEA may perform other work by its own forces, have other work performed by utility owners, or let other direct contracts for other work at the site.
- 7.2 The Contractor shall afford the NJSEA, each utility owner, and other contractors, a reasonable opportunity for the introduction and storage of materials and equipment, and proper and safe access to the site for execution of such work. The Contractor shall properly connect and coordinate the work of others with

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the Work, as necessary. The Contractor shall not endanger any work of others; and will only alter the work of others with the written consent of the Project Representative and those who performed the work.

8.0 PROJECT REPRESENTATIVE'S STATUS DURING THE PROJECT:

- 8.1 The Project Representative shall be the NJSEA's representative for this Project. The Project Representative shall be the initial interpreter of the Contract Document requirements and judge of the acceptability of the Work thereunder. Any claims, disputes, and/or other matters relating to the above, or to changes in the Contract Price or Time, will initially be referred to the Project Representative, in writing. The Project Representative will render a decision, in writing, within a reasonable period of time.
- 8.2 The Project Representative shall make visits to the site to observe the progress and quality of the executed Work and to determine if it is proceeding in accordance with the Contract Documents. On the basis of such visits and observations, the Project Representative will keep the NJSEA informed of the quality and progress of the Work.
- 8.3 The Project Representative will issue with reasonable promptness such written clarifications or interpretations of the Contract Documents as are determined necessary. If the Contractor believes that a written clarification or interpretation justifies an increase in the Contract Price, and/or an extension of the Contract Time, the Contractor may make a claim therefore.
- 8.4 The Project Representative may authorize minor variations in the Work, which do not involve an adjustment in the Contract Price or the Contract Time and are consistent with the overall intent of the Contract Documents. If the Contractor believes that a variation issued as minor justifies an increase in the Contract Price and/or an extension of the Contract Time, the Contractor may make a claim therefore.
- 8.5 The Project Representative may reject Work believed to be defective. The Project Representative also has the authority to require special inspection and testing of the Work, whether or not it has been fabricated, installed, or completed.
- 8.6 The Project Representative shall not be responsible for the means, methods, techniques, sequences, or procedures of the Contractor's performance of the Work, or the safety programs and precautions incident thereto. The Project Representative will not be responsible for the failure of the Contractor to furnish or perform the Work in accordance with the Contract Documents.

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- 8.7 The Project Representative will not be responsible for acts of omission by the Contractor, or any of his subcontractors or suppliers furnishing or performing any of the Work.
- 9.0 CHANGES IN THE WORK:**
- 9.1 Without invalidating the Contract, and without notice to any surety, the NJSEA may order revisions in the Work. These revisions shall be authorized by Change Orders. Upon receipt of such a document, the Contractor shall promptly proceed with the work involved, in accordance with the applicable conditions of the Contract Documents.
- 9.2 The Contractor shall not be entitled to an increase in the Contract Price, or an extension of the Contract Time, for any work not required by the Contract Documents and performed without a Change Order, except for an emergency.
- 10.0 CHANGE OF CONTRACT PRICE:**
- 10.1 The Contract Price may only be changed by a Change Order. Any claim for a change in the Contract Price shall be based on written notice delivered by the party making the claim, to the other party and the Project Representative, no later than ten days after the occurrence of the event giving rise to the claim. The amount of the claim, with supporting data, shall be delivered within twenty days of such notice; and shall be accompanied by a written statement that the amount claimed covers all known costs to which the claimant is entitled. The validity of all claims shall be determined by the Project Representative.
- 10.2 Where the Contract Documents provide that all or part of the Work shall be on a unit price basis, the initial Contract Price will be deemed to include an amount equal to the sum of each unit price, multiplied by the estimated quantity of each item, as indicated in the Bid Forms. Each unit price will be deemed to include an amount adequate to cover the Contractor's overhead and profit for each separately identified item. The estimated quantities of unit price items of work are not guaranteed, but are solely for the purposes of bid comparison and determining the initial Contract Price. Classification of the unit price Work, and the actual quantity determinations, shall be made by the Project Representative. Incorporation of the actual classified quantities into the Contract Price, if different than the amount given with the Bid, shall be accomplished by Change Order(s).
- 10.3 The value of a Change Order shall be determined in one of the following ways:
- A. Where the Work involved is covered by unit prices contained in the Contract Documents, by application of said unit prices to the additional or reduced quantities of the items involved.

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B. By mutual acceptance of a lump sum.

11.0 CHANGE OF CONTRACT TIME:

- 11.1 The Contract Time may only be changed by a Change Order. Any claim for a change to the Contract Time shall be based on written notice delivered by the party making the claim, to the other party and to the Project Representative no later than ten days after the occurrence of the event giving rise to the claim. The extent of the claim with supporting data shall be delivered within ten days of the notice, and shall be accompanied by a written statement that the time claimed is the total time to which the claimant is entitled. The Project Representative shall determine the validity of all claims for adjustment to the Contract Time.
- 11.2 The Contract Time shall be extended an amount equal to the time lost due to delays beyond the control of the Contractor, if a claim is made therefore. Said delays shall include, but not be limited to; labor disputes, fires, floods, epidemics, abnormal weather conditions, other acts of God, and acts of NJSEA neglect.
- 11.3 All time limits stated in the Contract Documents are of the essence of the Contract. The provisions of this Article shall not exclude the recovery of damages by either party due to delay.

12.0 PAYMENTS TO CONTRACTOR; INSPECTION AND COMPLETION:

- 12.1 Payment Schedule: Please refer to Technical Specifications
- 12.2 It is agreed that this Project is one contract for the whole and complete Work. No partial payments on account by the NJSEA, or its use of parts of the Project; shall constitute the acceptance of any part of the Work before final inspection, acceptance, and final payment.
- 12.3 The Total Contract Amount shall be the total compensation paid to the Contractor for performing the Work. All duties, responsibilities, and obligations assigned to, or undertaken by the Contractor in the performance of the Work, shall be at his own expense, without change to the Total Contract Amount.
- 12.4 The Project Representative may refuse to recommend payment of the whole or any part of any application, if in Project Representative's opinion; it would be incorrect to make such representations to the NJSEA. The Project Representative may also refuse to recommend any such payment (or because of subsequently discovered evidence or the results of subsequent inspections or tests, nullify any such payment previously recommended) to such extent as may be necessary, in the Project Representative's opinion, to protect the NJSEA from loss. Reasons for refusing to recommend payment, or for nullifying payments previously made, include but are not limited to the following:

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- A. Unacceptable Work not remedied.
- B. Failure of the Contractor to make payments properly to subcontractors, manufacturers, or suppliers.
- C. A reasonable doubt that the Contract can be completed for the balance unpaid.
- D. Damage to another contractor.
- E. Failure of the Contractor to keep his work progressing in accordance with his progress schedule.
- F. Failure to submit certified payrolls (including subcontractor's payrolls) corresponding to the time period covered by the payment application.
- G. Failure to satisfactorily prosecute the Work in accordance with the Contract Documents.
- H. Failure to comply with Affirmative Action goals and objectives in accordance with PL1975, c127.
- I. Failure to submit any items required by the Contract Documents in the time frame specified.
- J. Failure to maintain insurance and/or to provide proof of insurance.

13.0 SUSPENSION OF WORK AND TERMINATION:

- 13.1 The NJSEA may, at any time and without cause, suspend the Work, or any portion thereof, for a period of not more than ninety (90) days by notice in writing to the Contractor and the Project Representative. The written notice shall establish the date on which the Work will be resumed. The Contractor shall resume work on the established date. The Contractor shall be allowed an increase in the Contract Price and/or an extension of the Contract Time attributable to the suspension; if the Contractor makes a claim therefore, and it is approved.
- 13.2 The NJSEA may terminate the services of the Contractor after giving him and the surety seven days' written notice, upon the occurrence of any one or more of the following events. In such case, the Contractor shall not be entitled to receive any further payment. Where the Contractor's services have been so terminated by the NJSEA, said termination shall not affect any rights or remedies of the NJSEA against the Contractor existing at the time, or which may thereafter accrue.
- A. If the Contractor commences a voluntary case under any chapter of the Bankruptcy Code (Title 11, United States Code) now or hereafter in effect.
 - B. If the Contractor takes any equivalent or similar action by filing a petition or other notice under any other federal or state law in effect at such time relating to bankruptcy or insolvency.
 - C. If a petition is filed against the Contractor under any chapter of the Bankruptcy Code now or hereafter in effect at the time of filing.

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- D. If a petition is filed seeking any such equivalent or similar relief against the Contractor under any other federal or state law in effect at the time relating to bankruptcy or insolvency.
 - E. If the Contractor makes a general assignment for the benefit of creditors.
 - F. If a trustee, receiver, custodian, or agent of the Contractor is appointed under applicable law or contract, whose appointment or authority to take charge of the Contractor's property is for the purpose of enforcing a lien against such property, or for the purpose of general administration of such property for the benefit of the Contractor's creditors.
 - G. If the Contractor admits in writing an inability to pay his debts as they become due.
 - H. If the Contractor persistently fails to perform the Work in accordance with the Contract Documents: including but not limited to, failure to supply sufficiently skilled workers, suitable materials, or equipment, or the failure to adhere to the progress schedule.
 - I. If the Contractor disregards any applicable laws or regulations.
 - J. If the Work to be performed under this Contract shall be abandoned by the Contractor. Abandonment shall mean that the Contractor has failed to perform any work on the Contract for a period of thirty consecutive calendar days.
 - K. If this Contract or any part thereof shall be assigned, transferred, or sublet without the previous notice to and written consent of the NJSEA.
 - L. If the Contract or any claim thereunder shall be assigned by the Contractor other than as herein specified.
 - M. If the Contractor fails to maintain insurance during the entire Contract term and until the NJSEA accepts the Contract Work and the Contract is ended or fails to provide the NJSEA with proof of insurance upon request of the NJSEA.
 - N. If the Contractor otherwise violates in any substantial way any provisions of the Contract Documents.
- 13.3 Upon seven days written notice to the Contractor, the NJSEA may elect to abandon the Work and terminate the Contract without cause and without prejudice to any other right or remedy. In such case, the Contractor shall be paid for all completed Work, plus reasonable termination expenses.
- 14.0 MISCELLANEOUS ITEMS:**
- 14.1 The address given on the Bid Form upon which this Contract is founded is hereby designated as the place to which notices, letters, and other communications to the Contractor shall be certified, mailed, or delivered. The delivering to said address or the depositing (in a postpaid wrapper with said address) in any mail box regularly maintained by the United States Postal Service of any notice, letter, or other communication to the Contractor shall be deemed

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sufficient service thereof upon the Contractor. The date of said service shall be the date of such delivery or mailing. The above-named address may be changed at any time by a written notice delivered to the NJSEA and the Project Representative. Nothing herein contained shall be deemed to preclude or render inoperative, the service of any notice, letter, or other written communication upon the Contractor personally.

- 14.2 When any period of time is referenced in the Contract Documents by days, it will be computed to exclude the first, and include the last day of said period. If the last day of said period falls on a Saturday, Sunday, or a legal holiday observed by the NJSEA, it shall be omitted from the computation.
- 14.3 Should the NJSEA or the Contractor suffer injury or damage to persons or property, respectively, because of any error, omission, or act of the other party (or others for whose acts the other party is legally liable), a claim shall be made in writing to the other party within a reasonable time of the first observance of said injury or damage.

END OF SECTION 00700

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**SECTION 00800
SPECIFIC PROJECT REQUIREMENTS**

1.0 LOCATION OF THE WORK:

- 1.1 The Work of this Contract shall be performed at the NJSEA Meadowlands Pump Station in East Rutherford, NJ.

2.0 SUMMARY OF WORK:

- 2.1 The services described herein shall be provided for New Jersey Sports and Exposition Authority's Facility.
- 2.2 Contractor shall perform all work as outlined in these specifications unless otherwise directed by the Project Representative. NJSEA reserves the right to redirect the efforts of the Contractor in response to current circumstances. All work shall be done under the direction of the Project Representative.

3.0 ADDENDA:

- 3.1 Only addenda signed by John J. Duffy, P.E., Senior Vice President of Facilities, are valid addenda for this Project.

4.0 PRE-BID MEETING:

- 4.1 A pre-bid meeting will be held at 10:00 AM on September 29th, 2022. The meeting will be held at the NJSEA Meadowlands Pump Station and will include a tour of the site specified in the Contract Documents.
- 4.2 Contract Documents may be obtained at the pre-bid meeting.

5.0 BID SUBMISSION:

- 5.1 Each Bid must be submitted with two (2) copies in a sealed envelope with the Bidder's name, address, and telephone number clearly indicated on the outside of the envelope.
- 5.2 The envelope shall also be clearly marked, in large letters, as follows:

**BID DOCUMENTS - PROJECT CN-274
MEADOWLANDS PUMP STATION GENERATOR REPLACEMENT
For New Jersey Sports and Exposition Authority Facility
DO NOT OPEN
DELIVER TO JOHN J. DUFFY**

- 5.3 All the documents listed in the Bid Forms shall be enclosed in the sealed envelope with the Bid.

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- 5.4 If a carrier service (such as Federal Express) is used to deliver the Bid; the sealed envelope containing the Bid shall be completed as noted above, and shall be placed into the carrier's envelope.
- 6.0 BONDS AND INSURANCE:**
- 6.1 BONDS: A performance and payment bond will be required for the faithful performance of the Contract, for payment of all labor and materials, and for the guarantee and maintenance of the Work. The bonds shall be duly executed by the Contractor, as Principal, and by a surety company satisfactory to the NJSEA and licensed to do business under the laws of the State of New Jersey.
- 6.2 All bonds shall be executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as Published in circular 570 (amended) by the Audit Staff, Bureau of Government Financial Operations, United States Treasury Department. All bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act.
- 6.3 If the surety on any bond furnished by the Contractor is declared bankrupt, becomes insolvent, its right to do business is terminated, or it ceases to meet the requirements of paragraph 5.1; the Contractor shall substitute another bond and surety acceptable to the NJSEA within ten working days of such declaration of insolvency, termination, or failure to meet the requirements of paragraph 5.1.
- 6.4 The performance and payment bond shall be for the full one - year Contract amount. It must be furnished with the executed Contract(s) and shall remain in effect until completion and acceptance of the Project. The bond shall specifically protect the NJSEA should the Contractor go bankrupt or be declared insolvent. Each year the Contractor shall resubmit to NJSEA a new performance bond in the amount of the single year contracted price for the specific year. (See Section 00300)
- 6.5 INSURANCE: The Contractor shall furnish the NJSEA with satisfactory proof that he has obtained the insurance described below from insurance companies or underwriters satisfactory to the NJSEA. The Contractor shall keep such insurance in force until each and every obligation assumed under the Contract shall be fully and satisfactorily performed. The NJSEA and the Project Representative shall be named as additional insured under all the policies, except the Compensation Insurance.
- 6.6 The Contractor shall furnish to the NJSEA certificates for the following types of insurance showing the type, amount, and class of operations insured, and the effective and expiration dates of the policies. The certificates shall be submitted

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with the executed Contract(s). Work on the Contract will not be permitted to proceed until the certificate has been received and verified. Specific reference to the Contract shall be made in all policies.

- A. CONTRACTOR'S PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE, including Independent Contractor's Completed Operations and Contractual Liability Insurance with combined single limits of not less than one million dollars (\$1,000,000) each occurrence and with an annual aggregate of three million dollars (\$3,000,000) with respect to bodily/personal injury and property damage. Said policies of insurance shall contain a provision or endorsement providing insurance protection against property damage caused by explosion or collapse; and against damage to or interference with other facilities.
 - B. CONTRACTOR'S VEHICLE LIABILITY INSURANCE, for "any auto/vehicle" for the duration of the contract for bodily injury/property damage with a combined single limit of one million dollars (\$1,000,000).
 - C. EXCESS LIABILITY INSURANCE, in the amount of five million dollars (\$5,000,000) is to be provided in addition to the above requirements.
 - D. COMPENSATION INSURANCE, coverage "B", as required by state law for all employees who will be engaged in the work associated with this Contract. The Contractor shall require all subcontractors to provide similar workmen's compensation insurance for all of their employees, unless those employees are covered under the Contractor's insurance. If any employees engaged in hazardous work under this Contract are not protected under the workmen's compensation statute; the Contractor (and any subcontractors) shall also provide adequate employer's liability insurance for the protection of these employees.
 - E. ENVIRONMENTAL LIABILITY INSURANCE - in the amount of one million dollars (\$1,000,000) for bodily injury/property damage. The policy form must accompany the certificate of insurance and the contract documents.
- 6.7 SUBCONTRACTORS: The Contractor shall not permit any Subcontractor to commence work on his subcontract until all similar insurance (as listed above) required of the subcontractor has been obtained and approved. Copies of all Subcontractors certificates shall be forwarded to the NJSEA.
- 6.8 All insurance certificates shall stipulate that the insurance will not be changed or canceled without giving at least 30 days written notice to the NJSEA and the Project Representative by certified mail.

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- 6.9 The insurance required above shall be written for not less than the limits of liability specified therein. Coverages, whether written or an occurrence or claims-made basis, shall be maintained without interpretation from date of commencement of the Work until the date of final payment and the termination of any coverage required to be maintained after final payment.

The forms and/or amounts of insurance to be furnished by the Contractor and each of its Subcontractors shall not in any way operate to relieve or limit the liability of the Contractor or any Subcontractor under the Contract or any other of the Contract Documents.

The Contractor shall not commence work under the Contract until all insurance required of the Contractor has been obtained and has been approved by the Owner, nor shall the Contractor allow any Subcontractor to commence work on its subcontract until all similar insurance required of the Subcontractor has been obtained and approved by the Owner. Approval of such insurance by the Owner shall not relieve or decrease the liability of the Contractor under the Contract or the Contract Documents.

The Contractor and each of its Subcontractors shall purchase from and maintain insurance with companies which, as of the time of the Bid (in the case of the Contractor) and as of the time of the purchase (in the case of the Subcontractor), have at the very least an A Minus rating by A.M. Best & Company.

All of the insurance to be provided shall be considered to be primary insurance as respects the Owner, the Engineer and the municipalities in which the on-site Work is to be performed. The Contractor will save harmless, indemnify and defend the Owner, the Engineer and the municipalities in which the on-site Work is to be performed, as well as their respective agents, officers and employees, from any and all claims arising out of the Contractor's performance.

7.0 NJSEA RIGHT TO DEDUCT MONIES:

- 7.1 The Contractor shall pay to the NJSEA, and the NJSEA shall have the right to deduct the full amount of all expenses, losses, damages and costs from all monies due, or to become due, the Contractor under this Contract for any of the following reasons:

- A. Any defect, omission, or mistake of the Contractor or his employees, and the repairs of same, as determined by the Project Representative.
- B. All costs incurred by the NJSEA for overtime payments to the Project Representative caused by the Contractor's overtime work (Overtime is

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considered to be all hours worked in excess of eight hours per day or 40 hours per week, all hours worked on Saturdays and Sundays, and all hours worked on legal holidays observed by the NJSEA). All such inspection costs shall be at a rate of \$100.00 per hour.

8.0 SANITARY FACILITIES:

8.1 The Contractor MUST provide sanitary facilities for their employees

9.0 WATER:

9.1 The Contractor may use potable outdoor drinking fountain. The Contractor may use outdoor spigot for water and washing from the NJSEA facilities.

10.0 ELECTRICAL SERVICE:

10.1 The Contractor may use electrical service from the NJSEA facilities.

11.0 TELEPHONE SERVICE:

11.1 The Contractor is responsible for providing telephone service for use of its personnel working on the Project.

12.0 CONTRACTOR'S STORAGE AREA:

12.1 The contractor may use the area designated to store equipment and material upon the approval of the Project Representative.

13.0 COORDINATION WITH NJSEA OPERATIONS: HOURS OF OPERATION

13.1 The NJSEA Facilities will be open for normal business during the course of the Contract. The Contractor shall not interfere with the NJSEA operations in any manner. Should conflicts arise; the NJSEA operations will take precedence over the Contractor's operations.

13.2 All work shall be executed Monday-Friday 7:00 AM - 4:00 PM.
No work shall be performed outside these hours unless prior approval is obtained through the Project Representative. The contractor must report to the Project Representative before starting work, and also at the end of each work day. Work will be done under the term of contract at no additional cost.

13.3 The Contractor shall not schedule work on days when the NJSEA is closed without advance approval of the Project Representative.

13.4 All work schedules shall be coordinated through the Project Representative in order to minimize interference with normal operations of the NJSEA.

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- 13.5 At the end of each day's work, all equipment that the contractor has been servicing must be put back in service in order to maintain operation of NJSEA Facilities.
- 13.6 The NJSEA will be closed the following 13 days: New Year's Day, Martin Luther King Day, Presidents Day, Good Friday, Memorial Day, Juneteenth, Independence Day, Labor Day, Columbus Day, Election Day, Veterans Day, Thanksgiving Day, and Christmas Day.
- 13.7 During the servicing procedure, should contractor discover any code violations or other conditions contrary to reliability or safe operation, a report shall be made at once directly to the Project Representative.
- 13.8 Under no circumstances will equipment be shut down, repairs or adjustments made without first securing the approval of Project Representative.
- 13.9 Any work that disrupts or interferes with the operations of the NJSEA shall be terminated immediately and rescheduled at the direction of the Project Representative.

14.0 MATERIALS:

- 14.1 All materials furnished by the Contractor shall be compatible with those specified herein. Any substitutions shall be subject to the approval of the Project Representative.
- 14.2 Where materials are not specified, Contractor shall submit Manufacturer's Data sheets for all products proposed for use under this contract and shall obtain approval of Project Representative prior to their application.
- 14.3 Contractor shall supply labels of all products proposed for use under this contract to the Project Representative for approval prior to any application of these chemicals.

A. In accordance with the New Jersey Right to Know Act, the Contractor shall supply Material Safety Data Sheets (MSDS) for chemical cleaners, solutions, cleaners and chemicals proposed for use under this contract.

15.0 QUALITY ASSURANCE:

- 15.1 One to Three experienced personnel must be designated by the Contractor to oversee this work. They must have knowledge of standard industry practices relating to the scope of work.

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- 15.2 Only experienced workmen shall perform the Work. In the acceptance of the Work, no allowance will be made for lack of skill or experience on the part of workmen.
- 15.2 Contractor shall have all equipment available and tools necessary to properly perform all parts of the work described herein.
- 15.3 Contractor shall supply the proper equipment required to each job described herein.
 - A. The NJSEA reserves the right to withhold or reduce payment up to one hundred percent in the event that, the right equipment is not on site, equipment is not working properly, a full day is not completed, or scheduled work has not been completed according to these specifications to the satisfaction of the Project Representative. (Example: Payments may be reduced if contractor doesn't show up for the scheduled day/week are not consistent, and or certain task don't get completed, proper equipment is not on site. Work order reports are not emailed or faxed to the Project Representative). This will be determined by the Project Representative.

16.0 STAFFING

- 16.1 The Project Representative may assign additional tasks to expend any hours remaining after the work of Section 02000, outlined herein, and is completed.
- 16.2 While doing the work specified in Section 02000, the Contractor shall be required to sign in upon arrival at the site and to sign out upon departure.
 - A. The Sign in book is at the NJSEA Administration main front desk. The Contractor shall sign in and out when working at the NJSEA facility. This is not applicable if the Contractor is not entering the facility.
 - B. Contractor shall supply daily Service Reports/ Work order reports - on date of work - the names of all workers, hours worked; tasks accomplished and any chemical cleaners, solutions, and chemicals used and or major work completed or required. In addition to a written report - the reports shall be emailed and or faxed to the Project Representative after the completion of any service.
 - C. The Contractor shall maintain records for services rendered against the contract for a period of three (3) years from the date of final payment. Such records shall be made available to the NJSEA upon request for purposes of conducting an audit, or for ascertaining information regarding dollar volume or number of transactions.

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- D. The Foreman shall be the Contractor's Representative at the site and shall have the authority to act on behalf of the Contractor.
 - E. All communications given to the Foreman shall be binding as if given to the Contractor.
- 16.3 The Contractor shall provide consistency in staff so that individuals become familiar with the requirements of the site.
- 17.0 GUARANTEE**
- 17.1** All Contractors shall guarantee their labor and all materials for a period of two (2) years from date of Substantial Completion, unless otherwise specified in writing and approved by the Owner.

END OF SECTION 00800

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SECTION 00900

GENERAL REQUIREMENTS

1.0 ABBREVIATIONS, SYMBOLS, AND STANDARDS:

1.1 The following abbreviations may appear in the Contract Documents:

C.	degrees Centigrade
cu. ft.	cubic foot (feet)
cu. in.	cubic inch(es)
C.Y.	cubic yard(s)
USEPA (EPA)	United States Environmental Protection Agency
F.	degrees Fahrenheit
ft.	foot (feet)
gpm	gallons per minute
in.	inch(es)
lb.	pound(s)
NJAC	New Jersey Administrative Code
NJDEP (DEP)	New Jersey Department of Environmental Protection
NJSA	New Jersey Statutes Annotated
No.	number
OSHA	Occupational Safety and Health Administration
psi	pounds per square inch
psf	pounds per square foot
rpm	revolutions per minute
sq. ft.	square foot(feet)
sq. in.	square inch(es)

2.0 REFERENCE SPECIFICATIONS AND STANDARDS:

The following current standards and publications of the issues currently in effect form a part of this specification to the extent indicated by any reference thereto:

3.0 SUBMITTALS:

3.1 Submittals that are required in the performance of work of this Contract are as follows:

- A. It shall be the Contractor's ultimate responsibility to ensure the health and safety of all his employees and subcontractor personnel. The Contractor shall develop a pollution control system which will be in compliance with all USEPA, NJDEPE, OSHA, USCG, etc. rules, regulations, standards, and guidelines in effect at the time the Work is in progress. All references to workers and employees shall mean the Contractor's employees and

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subcontractor personnel.

- B. Material Safety Data Sheets (MSDS): Submit MSDS sheets for all chemicals, cleaners, solutions, refrigerants, and oils used on the facility.
- C. Certificates: Submit labels from the manufacturer's or supplier's container certifying that the following products meet the specified requirements: chemicals, cleaners and solutions, used on the facility.

4.0 RESPONSIBILITY FOR PROPERTY DAMAGE:

- 4.1 The Contractor assumes full responsibility for the equipment employed in the execution of the work described herein and agrees to make no claims whatsoever against the NJSEA for any damages to such equipment, or injuries caused by the equipment.
 - 4.2 All property of the Contractor, its employees or agents which is brought, kept, used, and or left on NJSEA property shall be at the sole risk of the Contractor who shall be responsible for all loss or damage to such equipment and property.
 - 4.3 The Contractor shall be responsible for any damage to NJSEA property in excess (cumulatively) of \$50 caused by its negligence in the performance of work under this Contract.
 - 4.4 In the event of damage to NJSEA property in excess (cumulatively) of \$50, NJSEA reserves the right to immediately effect both temporary and permanent repairs at the expense of the Contractor. The Contractor agrees that, in such event, NJSEA may deduct the cost of such repairs and related expenses incurred by the NJSEA from any moneys due to the Contractor under this Contract or to charge the Contractor accordingly. Any repairs made by the Contractor shall be "in kind", i.e. match existing conditions.
 - 4.5 The Contractor will work closely with NJSEA personnel to establish all necessary safeguards or safety devices to protect equipment and safety of workmen and other personnel while work is being performed.
 - 4.6 Use all means necessary to protect all NJSEA Facilities.
- 5.0 CLEANUP - SAFETY:**
- 5.1 It shall be the responsibility of the Contractor to leave the job sites in a clean and safe condition at the end of each workday.
 - 5.2 The Contractor shall properly remove and/or store all tools, equipment and materials and shall clean debris from the job sites at the end of each workday.

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- 5.3 The Contractor shall wear proper safety gear while operating machinery or applying chemicals, including but not limited to eye and ear protection.
- 5.4 The Contractor shall promptly notify the Project Representative of any damage resulting from weather, vandalism, etc. observed during the performance the work of this Contract. This will allow for the prompt remediation of potential safety hazards.
- 5.5 All employees of the Contractor shall be trained to properly perform the work assigned to them.

6.0 PROHIBITED ACTIVITIES:

- 6.1 The Contractor shall not use procedures, activities or operations that may adversely impact the natural environment, or the public health and safety of the area. Prohibited activities include, but are not limited to, the following:
 - A. Dumping or disposing of materials into any stream corridors, wetlands, or surface waters or on public or private property not specified for said purpose.
 - B. Indiscriminate, arbitrary, or capricious operation of equipment in any wetlands or surface waters.
 - C. Indiscriminate damaging of vegetation.
 - D. Disposal of trees, brush, and other debris in any wetlands, surface waters, or unspecified locations.
 - E. Discharging injurious silica dust concentrations into the atmosphere closer than 200 feet to areas of human occupation.
 - F. Closing off clear access to the site without the prior the consent of the Project Representative and the NJSEA.
 - G. Operation of equipment outside the boundaries of the working area.

7.0 ACCIDENT REPORTS

- 7.1 The Contractor shall promptly report, in writing within 24 hours to the Project Representative, all accidents whatsoever arising out of, and in conjunction with the performance of work, whether on or adjacent to the working site, which cause death, personal injury or property damage, giving details and statements of witnesses.

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- 7.2 In addition, if death or serious personal injury is caused, the accident shall be reported immediately, by telephone, to the Project Representative.
- 7.3 If any claim is made by a third person against the Contractor on account of any accident, the Contractor shall promptly report the matter in writing, within 24 hours to the Project Representative, giving full details of the claim.
- 8.0 WASTE DISPOSAL:**
- 8.1 All debris and waste materials shall be removed from the site by vehicles designed for the transport of the various materials being removed.
- 9.0 HAZARDOUS MATERIALS:**
- 9.1 The Contractor shall have full responsibility for the presence, handling, removal and disposal of, or exposure of persons to hazardous materials in any form at the project site, including but not limited to asbestos, asbestos products, polychlorinated biphenyl (PCB), or other toxic substances.

END SECTION 00900

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SECTION 01070

ABBREVIATIONS, SYMBOLS, AND STANDARDS

1.0 ABBREVIATIONS:

1.1 The following abbreviations may appear in the Contract Documents:

AASHTO	American Association of State Highway and Transportation Officials
AC	air conditioning
ACI	American Concrete Institute
ACU	air conditioning unit
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials
AWG	American (or Brown and Sharpe) Wire Gauge
AWS	American Welding Society
AWWA	American Water Works Association
BTU	British thermal unit
BTUh	BTU per hour
C.	degrees Centigrade
cfm	cubic feet per minute
cfs	cubic feet per second
cu. ft.	cubic foot (feet)
cu. in.	cubic inch(es)
C.Y.	cubic yard(s)
USEPA (EPA)	United States Environmental Protection Agency
F.	degrees Fahrenheit
ft.	foot (feet)
ftpm	feet per minute
gal	gallon(s)
gph	gallons per hour
gpm	gallons per minute
Hz	frequency
in.	inch(es)
ISO	International Organization for Standardization
kW	kilowatt
lb.	pound(s)
LF	linear foot
Mbh	thousand BTU per hour
MSDS	Material Safety Data Sheet
NAVD88	North American Vertical Datum of 1988
NGVD29	National Geodetic Vertical Datum of 1929
NIST	National Institute of Standards and Technology

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NJAC	New Jersey Administrative Code
NJDEP (DEP)	New Jersey Department of Environmental Protection
NJDOT	New Jersey Department of Transportation
NJSEA	New Jersey Sports and Exposition Authority
NJSA	New Jersey Statutes Annotated
NJTA	New Jersey Turnpike Authority
No.	number
NOAA	National Oceanic and Atmospheric Administration
OSHA	Occupational Safety and Health Administration
psi	pounds per square inch
psf	pounds per square foot
PVC	Polyvinyl Chloride
QPL	Qualified Product List
RCP	Reinforced Concrete Pipe
ROW	Right-of-Way
rpm	revolutions per minute
SESC	Soil Erosion and Sediment Control
SI	International System of Units
sq. ft.	square foot(feet)
sq. in.	square inch(es)
USACE	United States Army Corps of Engineers
USEPA (EPA)	United States Environmental Protection Agency
USGS	United States Geodetic Survey

2.0 REFERENCE SPECIFICATIONS AND STANDARDS:

- 2.1 Standard specifications, such as those published by ASTM, ACI, NEMA, ANSI, and others that are referenced herein shall be the latest revisions thereof and shall include all amendments and revisions that are in effect on the date bids are received unless otherwise specified.
- 2.2 Reference to New Jersey Department of Transportation (NJDOTSS) shall refer to Standard Specifications for Road and Bridge Construction (dated 2007)

END OF SECTION 01070

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SECTION 01200

PROJECT MEETINGS AND CORRESPONDENCE

1.0 MEETINGS:

- 1.1 Project meetings shall be where necessary to discuss the progress and prosecution of the Work. The meetings will be held at the time and place designated by the Project Representative. The Project Representative will prepare minutes of these meetings. The Contractor shall be provided a copy of the minutes for his records. Meeting minutes shall be read and accepted, either as read or as amended, at the following meeting.
- 1.2 The Contractor or the NJSEA may request additional meetings when they believe such are necessary. A minimum of forty-eight (48) hours' notice shall be given, though each request will be treated on an individual basis.

2.0 CORRESPONDENCE:

- 2.1 Any request in writing by the NJSEA to the Contractor must be answered in writing, in sufficient detail and within a reasonable period of time, by the Contractor.

3.0 PAYMENT:

- 3.1 Payment for the above work shall not be made under any specific item. The Contractor shall include all costs for the above work in the bid prices for the various items scheduled in the Bid Forms.

END OF SECTION 01200

SECTION 01340

SUBMITTALS AND SAMPLES

1.0 GENERAL:

- 1.1 All equipment and materials to be incorporated in the Work shall be submitted to the Project Representative for review and acceptance. No equipment or materials shall be processed, fabricated, or delivered to the site without the prior review of submittals and/or samples; and acceptance of same by the Project Representative, except at the sole risk of the Contractor. The Contractor shall be responsible for prompt submission of all submittals and samples to insure there will be no delay to the Work. All material must have certifications that they meet the requirements of the Contract Specifications and Drawings.

2.0 SUBMITTALS:

- 2.1 All submittals shall be properly referenced to clearly indicate the Contract number, the particular Specification Section, and the Work location, service, and function of each particular item. Inadequate or improperly identified submittals shall be returned to the Contractor without the Project Representative's review.
- 2.2 Each submittal by the Contractor shall have his signature indicating approval of the information contained therein. By approving and submitting the information to the Project Representative, the Contractor represents that he has determined and verified all field measurements, quantities, dimensions, field construction criteria, materials, catalog numbers, and other related data; and that he has reviewed and coordinated each submittal and submittal item with any related approved submittals and the Contract Documents. Any fabrication, erection, setting of equipment, or other work performed in advance of the receipt by the Contractor of submittal(s) returned by the Project Representative and noted as "NO EXCEPTIONS TAKEN" or "MAKE CORRECTIONS NOTED", shall be entirely at the Contractor's own risk. The Contractor is not required to resubmit submittals returned by the Project Representative noted "MAKE CORRECTIONS NOTED". However, the Contractor shall be responsible for making the noted corrections, unless a resubmittal is made.
- 2.3 The notation "NO EXCEPTIONS TAKEN" of a separate item shall not indicate acceptance of the assembly in which the separate item is included. Where manufacturers' publications (in the form of catalogs, pamphlets, or other data sheets) are submitted in lieu of prepared Shop Drawings; such submittals shall specifically indicate the item for which a review is requested. Identification of items shall be made in ink; and sufficient space on the submittals shall be provided for review stamps and comments.
- 2.4 Submittals, and any resubmittals, shall be designated in the following manner:

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- A. Each original submittal shall be identified by the Contract Number, the applicable Specification Section Number, and the applicable Article Number(s).
 - B. The first resubmittal shall have the letter "A" added to the above number. All items changed shall be noted in a revision box under "A" and dated, or marked with an "A" at the changed area.
 - C. Subsequent resubmittals shall be noted as above with the letters "B", "C", "D", etc., as necessary.
 - D. A revision box shall be included on all drawings detailing where the changes have been made. All changes shall be referenced as noted in "B." above.
- 2.5 Sufficient sets of all submittals shall be submitted to the Project Representative by the Contractor. The Project Representative will retain two sets. The other sets will be returned to the Contractor.
- 2.6 All submittals shall be either 8-1/2" by 11", 11" by 17", or 24" by 36", in size.
- 2.7 The Contractor agrees that submittals processed by the Project Representative are not Change Orders; that the purpose of submittals by the Contractor is to demonstrate to the Project Representative that the Contractor understands the design concept. The Contractor demonstrates his understanding by indicating which equipment and material he intends to furnish and install, and by detailing the fabrication and installation methods he intends to use. The Contractor further agrees that if deviations, discrepancies, or conflicts occur between the submittals and the Contract Documents that were not identified in accordance with paragraph 2.7 herein, the Contract Documents shall control and shall be followed at no extra cost.
- 2.8 If the submittals contain any deviations from the Contract Documents, the deviations must be specifically mentioned in the Contractor's submission and letter of transmittal. The Contractor is fully responsible for all required changes to the Work resulting from the deviations. Where such deviations require revisions to layouts or structural changes in the specified Work, the Contractor shall, at his own expense, prepare and submit a revised layout drawing for review. Revision drawings shall include design calculations prepared, signed, and sealed by a licensed New Jersey Professional Engineer/Land Surveyor as needed. Such drawings shall be the same size as the Contract Drawings. The Contractor will not be relieved of his responsibilities for any deviations from the Contract Documents, unless the Project Representative has given written concurrence to the specific deviations. Concurrence by the Project Representative shall not relieve the Contractor from his responsibility for errors and omissions in the submittals.

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2.9 The Project Representative will review and comment on submittals with reasonable promptness provided the submissions are complete. The Project Representative's review shall only be for conformance with design concepts of the Project and for compliance with the information given in the Contract Documents. It shall not extend to means, methods, sequences, techniques, and procedures of construction, or to safety precautions or programs incident thereto. The Project Representative's review shall be confined to general arrangements in compliance with the Contract Documents, and will not be for the purpose of checking dimensions, weights, interferences, clearances, tolerances, or fittings; or coordination of trades.

3.0 SAMPLES:

3.1 Where required by the Contract Documents, the Contractor shall submit samples of materials to demonstrate that the materials conform to the Contract Documents. Such samples shall be furnished, taken, stored, packed, and shipped as directed, at the expense of the Contractor. Samples shall be packed to reach their destination in good condition.

3.2 Each sample shall be identified by the Contract Number, the applicable Specification Section Number, and the applicable Article Number(s).

3.3 To ensure consideration of the samples, the Contractor shall give the Project Representative prior notice by letter that the samples have been shipped, and shall describe the samples in the letter. In no case shall the notification letter be enclosed with the sample.

4.0 PAYMENT:

4.1 Payment for the above work shall not be made under any specific item. The Contractor shall include all costs for the above work in the bid prices for the various items scheduled in the Bid Forms.

END OF SECTION 01340

SECTION 01410

FIELD AND LABORATORY TESTING SERVICES

1.0 REQUIREMENTS:

- 1.1 The Contractor shall submit samples of all materials and products, as required. Certified reports of results of tests and analyses shall be furnished, either prior to beginning or during the progress of the work, as may be necessary to demonstrate that they conform to the Specifications. The Contractor shall engage the services of independent, qualified testing agencies to perform all laboratory and field tests and analyses on all materials and products used during construction, as specified in the relevant sections of these specifications. Results of all tests shall be submitted to the Project Representative for review in a timely manner. Samples shall be furnished, taken, stored, packed, shipped and tested, at the expense of the Contractor.

The Contractor shall submit data and samples, or place his orders, sufficiently early to permit consideration, inspection, testing and approval before the materials are necessary for incorporation in the work. Any delays resulting from his failure to do so shall not be used as a basis of a claim against NJSEA or the Project Representative

The NJSEA and the Project Representative reserve the right to perform tests on any materials or products, in addition to those performed by the Contractor. If the Project Representative orders additional sampling and analyses or test of materials which are usually accepted on certification of the manufacturer or which appear defective or not conforming to the requirements of the Specifications, such sampling and analyses or tests will be performed by a laboratory selected by NJSEA. The NJSEA will bear the costs of tests and analyses, if the materials are found to be sound and conforming to the Specifications; if the materials are found defective or not conforming to the Specifications, the Contractor shall bear all of the costs.

- 1.2 Tests required by NJSEA shall not relieve the Contractor from the responsibility of supplying certificates from manufacturers or suppliers to demonstrate conformance with the Specifications.

END OF SECTION 01410

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SECTION 01500

TEMPORARY CONTROLS

1.0 PERMITS AND LIABILITY

- 1.1 The Contractor is responsible for obtaining all permits, if required, from appropriate utilities prior to commencement of work. The Contractor shall coordinate work per the town requirements and shall prepare a maintenance and protection of traffic plan if so required by same. Review Specific Project Requirements for additional permit information.
- 1.2 The Contractor shall comply with all laws or ordinances applicable to the work under this Contract. The Contractor shall coordinate with the town Police Department prior to initiating haul routes. All service charges and permits shall be obtained at the Contractor's own expense.
- 1.3 The Contractor shall cooperate in every respect with other agencies of the state, town, and private agencies engaged in construction work in the vicinity. Lighting and other methods of protection shall be changed from time to time as conditions change and as ordered by the Project Representative.
- 1.4 Any method or clause under this section is intended to be the minimum requirement. The Contractor shall provide any other facilities that may be required.
- 1.5 The Contractor agrees to assume all responsibility for damage to persons or property that may accrue during the prosecution of the work, due to negligence of the Contractor, the Contractor's agents or employees, in failing to comply with the requirements of the specifications or other necessary precautions for the protection and safety of traffic.
- 1.6 The Contractor shall have no claim against the town, county, state or NJSEA for the extension of the time of completion of this contract nor for damages due to delay, inconvenience or expense caused by the provisions of this section.

2.0 RESTORATION AND CLEAN-UP

- 2.1 Upon completion of the Contract, all signs, barricades, and temporary controls shall be removed from the Project Site and shall become the property of the Contractor. The Contractor shall remove damaged, excess, and waste materials from the Project Site and dispose of the materials properly.

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3.0 SITE SECURITY

- 3.1 The Contractor shall provide adequate security at the site, to protect work and materials, and to prevent un-authorized personnel from entering the site throughout the duration of the Project. This may include nighttime and weekend watchmen if necessary, temporary site lighting, and installing perimeter fencing and gates. All costs in connection with the providing of the site security shall be borne by the contractor.

4.0 PAYMENT:

- 4.1 Separate payment will not be made for the work of this Section. The cost shall be included in the prices bid for the various items of work scheduled in the Bid.

END OF SECTION 01500

SECTION 01550

HEALTH AND SAFETY PROVISIONS

1.0 GENERAL REQUIREMENTS:

- 1.1 The following personal protective equipment (PPE) will be required for the work to be performed within a specific area:
 - A. Hard hat, safety glasses, steel toe/shank work boots, traffic safety vest.
- 1.2 The Contractor is responsible to monitor working conditions at all times during construction and, if it is found to be necessary, to provide appropriate protective clothing, equipment and facilities for its personnel, and/or to establish workplace procedures to ensure their safety, and to enforce the use of these procedures, equipment and/or facilities.
- 1.3 The Contractor shall prepare and implement a Health and Safety protection program which shall be described in detail in a site-specific health and safety plan (HASP). The HASP shall require the Contractor to have a Site Health and Safety Coordinator (SHSC).
- 1.4 The Contractor shall engage an independent, qualified health and safety expert to monitor Site conditions during construction activities and recommend all necessary health and safety protection. The Contractor shall follow such recommendations and shall provide such protection to his personnel and personnel of the Owner and Project Representative, as may be affected.
- 1.5 The Contractor shall comply with all Federal, State, and local safety and health requirements related to the presence of combustible gases, nausea-inducing gases, hazardous substances, and physical hazards, as well as the specific requirements stated in this Section and else in the Specifications.
- 1.6 In addition to the above requirements, the Contractor shall comply with the following requirements:
 - A. All construction equipment on the Site shall be equipped with vertical exhaust pipes or spark-proof exhausts.
 - B. Smoking shall not be permitted in any area where gases can accumulate, or in the vicinity of any combustible material, such as a wood, paper, brush, etc.

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2.0 APPLICABLE REGULATIONS

- 2.1 The Contractor and his subcontractors shall comply with all applicable Federal, State, and local laws and regulations concerning worker health and safety. All work shall be in accordance with safety and health regulations promulgated by the U.S. Department of Labor OSHA at 29 CFR 1910: Occupational Safety and Health Standards and at 29 CFR 1926: Safety and Health Regulations for Construction.

3.0 SUBMITTALS

- 3.1 Site-Specific Health and Safety Plan – Prior to commencement of the work, the Contractor shall:
- A. Submit in writing a site-specific health and safety plan (HASP); and
 - B. Meet with the Project Representative to develop mutual understandings relative to the compliance with the provisions of this Section and implementation of the HASP.

4.0 EXECUTION

- 4.1 The Contractor shall implement the Health and Safety protection program, as prepared by his independent, qualified health and safety expert. The HASP shall require the Contractor to have a Site Health and Safety Coordinator (SHSC) present at all times during construction activities.

END OF SECTION 01550

SECTION 01600

EQUIPMENT AND MATERIALS

1.0 TRANSPORTATION AND HANDLING:

- 1.1 The Contractor shall be responsible to insure that all equipment and materials are delivered to the project site in good condition. The Contractor shall coordinate with his suppliers to insure that deliveries are made in a timely manner and do not delay the Work.
- 1.2 The Contractor shall take whatever measures are necessary to provide for the proper handling of all equipment and materials.

2.0 STORAGE AND PROTECTION:

- 2.1 The Contractor expressly agrees that he is responsible for the following as part of the Work:
 - A. Taking every precaution against injuries to persons or damage to property.
 - B. Storing his equipment, materials, and supplies in an orderly fashion at the site, so as not to interfere with the progress of the Work, or the work of others.
 - C. Maintaining the site in a neat, orderly, and workmanlike manner at all times.
 - D. Removing all surplus materials, temporary structures, and debris of any nature resulting from his operations before final payment.
 - E. Placing upon the site, or any part thereof, only such loads as are consistent with the safety of that portion of the site.
- 2.2 The Contractor shall insure that all materials shall be stored to cause the least inconvenience to the NJSEA and the public. All fire hydrants shall be kept free and unobstructed at all times. Water and gas shutoff boxes, and underground power and telephone manholes shall not be covered or otherwise obstructed.
- 2.3 It shall be understood that the responsibility for the protection and safekeeping of all equipment and materials on or near the site shall be entirely that of the Contractor, and no claim shall be made against the NJSEA or Project Representative because of an act by an employee or a trespasser.
- 2.4 During adverse weather, the Contractor shall take all necessary precautions to properly prosecute the Work. When necessary, protection shall be provided by use of tarpaulins, temporary structures, and/or other approved means.

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- 2.5 The performance of the Work may be suspended at any time when, in the judgment of the Project Representative, the conditions are unsuitable, or the necessary precautions are not being taken.

3.0 CLEANING:

- 3.1 Before final acceptance by the NJSEA, the Contractor shall remove from the site all equipment, temporary work, unused and useless materials and rubbish. The Contractor shall repair or replace in an acceptable manner all private and/or public property which may have been damaged or destroyed because of the prosecution of the Work, and shall fill all depressions and water pockets on the property caused by his operations. The Contractor shall clean all drains and ditches within and adjacent to the site, which have been obstructed by his operations, and shall leave the site and adjacent properties in a neat and presentable condition.

4.0 PAYMENT:

- 4.1 Separate payment will not be made for the work of this Section. The cost shall be included in the prices bid for the various items of work scheduled in the Bid.

END OF SECTION 01600

SECTION 01720

PROJECT RECORD DOCUMENTS

1.0 PROJECT RECORD DOCUMENTS:

- 1.1 The purpose of the Project Record Documents is to record the actual location of the Work in place and to record changes in the Work.
- 1.2 In addition to the sets of Contract Documents that are required by the Contractor to perform the Work, Contractor shall maintain, at the Site, 1 copy of all Drawings, Specifications, and Addenda, that are part of the Contract as awarded, and also Change Orders, Modifications, approved Shop Drawings, and other approved changes. Each of these documents shall be clearly marked "Project Record Copy" as indicated below, maintained in a clean and neat condition available at all times for inspection by the Project Representative and shall not be used for any other purpose during the progress of the Work.
- A. Each record copy shall bear the legend "PROJECT RECORD COPY" in heavy block lettering, 1/4" high and contain the following data:

PROJECT RECORD COPY

Contractor's Name _____
Contractor's Address _____
Made by _____ Date _____
Checked by _____ Date _____

- B. Where possible, changes from the Contract as awarded Documents shall be conspicuously encircled.
- 1.3 Project Record Requirements
- A. The Contractor shall mark-up the "Project Record Documents" to show:
- a. Approved changes in the Work.
 - b. Details not shown in the original Contract Documents.
 - c. All relocations of Work.
 - e. All changes in dimensions.
- B. As applicable for the project, such information shall include, but shall not be limited to:
- a. All approved structural changes.
 - b. All approved substitutions.

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- c. Elevations and locations of all features referenced to permanent above-ground structures or monuments.
 - d. All approved Change Orders.
- 1.4 Contractor shall keep the Project Record Documents up-to-date from day to day as the Work progresses. Appropriate documents shall be updated promptly and accurately; no Work shall be permanently concealed until all required information has been recorded.
- 1.5 Each month these record drawings will be examined by the Project Representative prior to recommending the approval of the partial payment request to ascertain that the record prints reflect the changes to date.
- 1.6 Record Shop Drawings: If installed equipment is at variance with the respective approved Shop Drawings, Contractor shall furnish to the Project Representative revised Shop Drawings indicating the actual completed installation.
- 1.7 As-Built Drawings: At the conclusion of the job, the Contractor shall transfer all the changes appearing on the Record Document Prints to the as-built drawings. The as-built drawings shall be completed in accordance with SURVEYING SECTION. The title block for the as-built drawings shall include the name of Contractor.
- 1.8 Shop Drawings for Permanent Records - In addition to the drawings required as above mentioned, Contractor shall submit a list of all approved Shop Drawings of the Work as installed. From this list the Project Representative will select the drawings desired for permanent records. Contractor shall furnish these in a bound set to the Project Representative.
- 1.9 The Project Record Documents shall be submitted by Contractor to the Project Representative when all the Work is completed and shall be approved by the Project Representative before Contractor may request final payment.
- 1.10 Final payment shall be contingent on completion of the above listed requirements in this Section.
- 2.0 PAYMENT:**
- 2.1 Separate payment will not be made for the work of this Section. The cost shall be included in the prices bid for the various items of work scheduled in the Bid.

END OF SECTION 01720

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SECTION 01740

GUARANTEES, WARRANTIES & BONDS

1.0 CONTRACTOR'S GUARANTEE:

1.1 The Contractor shall furnish a written guarantee in the following form:

"GUARANTEE"

PROJECT_____

CONTRACT NO._____

The Contractor hereby guarantees that the Work specified for the aforesaid Contract will be free from defects of material and workmanship for a period as specified in SECTION 800 SPECIFIC PROJECT REQUIREMENTS.

The Contractor also guarantees that it will repair or replace, whichever may be deemed necessary by the Project Representative, all defective material or workmanship of the Work that may appear within the guarantee period, to the satisfaction of the Project Representative and without any cost or expense to the Project Representative.

Contractor

By_____

Date_____

Sworn to me before this

_____ day of_____, 20__

_____ Notary Public

1.2 Scheduling of corrective Work will be determined by the Project Representative. Work required to correct defective material or workmanship during the guarantee periods shall be done by the Contractor without cost to the NJSEA.

1.3 Should the Contractor fail to remedy defects immediately, the Project Representative may furnish such materials and labor as are necessary to bring the

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Work to the standard called for and the Contractor shall reimburse the Project Representative in full immediately.

2.0 WARRANTIES AND GUARANTEES (OTHER THAN CONTRACTOR'S):

- 2.1 Warranties and guarantees as specified in the respective Sections for products and systems shall be in addition to the Contractor's guarantee, and shall be for such periods and with such conditions as stipulated.

3.0 BONDS:

- 3.1 The Contractor shall provide bonds as stipulated in SPECIFIC PROJECT REQUIREMENTS.

4.0 PAYMENT:

- 4.1 Separate payment will not be made for the work of this Section. The cost shall be included in the prices bid for the various items of work scheduled in the Bid.

END OF SECTION 01740

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**SECTION 02000
TECHNICAL SPECIFICATIONS**

1.0 GENERAL INSTRUCTIONS

2.0 SCOPE OF WORK

- 2.1 The purpose of this project is to replace the existing generators and ancillary equipment at the project facility, minimizing effect on the existing system. This scope is to be comprehensive, such as to provide the Owner with a fully functional, code compliant, and operational system at the project completion. All work required to accomplish this shall be the responsibility of the Contractor unless otherwise noted.
- 2.2 Construction permits to be prepared, filled, and paid by the Contractor unless otherwise instructed by Owner. All other environmental permits to be prepared, filled, and paid by the Owner. Four (4) sets of signed and sealed electrical plans and project specifications shall be submitted as required by the State and Local authorities having jurisdiction, unless otherwise requested.
- 2.3 Contractor shall be responsible for obtaining all approvals and inspections necessary from all authorities having jurisdiction.
- 2.4 Contractor shall provide all labor, rigging, and materials necessary to install new and refeed existing systems and equipment. This shall include equipment that may be pre-purchased by the Owner.
- 2.5 Coordinate all activities with Owner from drawing submittals to final inspection and cut-in. Freight, handling, and receiving of components, delivery to job site, and rigging of equipment, all material and labor unless otherwise noted will be supplied by the Contractor.
- 2.6 Miscellaneous: The Engineer has designed the proposed work in accordance with applicable codes and current standards. The Contractor however shall be responsible to insure that all installations whether detailed or not meet all applicable codes. Contractor shall remedy at his expense any items failing inspection by local and/or state (DCA) officials..
- 2.7 The Contractor will:
- A. Install and deliver to the Owner a complete working system as described herein. The system must be installed and tested to the Owner's satisfaction. Final testing will be scheduled with the Owner.

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- B. Be responsible for correcting all code violations applicable by any authority having jurisdiction.
- C. Conduct post-construction inspection and testing of facility services. Contractor to provide all required test equipment as part of their contract. Testing of all major equipment and feeders shall be performed by a NETA-certified testing company.
- D. Conduct final inspection of the project. Provide closeout documentation.
- E. Freight, handling, and receiving of components, delivery to job site, rigging, and assembly of equipment per manufacturer's requirements will be the responsibility of the Contractor.
- F. All material and labor will be supplied by the Contractor, unless otherwise noted. Dumpsters and equipment necessary for demolition work in the construction documents is the responsibility of the Contractor.
- G. Provide detailed and exact, completely dimensioned as-built drawings for use by Owner within two (2) weeks of project completion (invoicing for 100% completion).
- H. Guarantee all materials and labor for one (1) year from the final acceptance date of the Owner.

3.0 PROJECT MEETINGS

- 3.1 Pre Demolition Meeting: Contractor and all designated Subcontractors shall attend a pre-demolition meeting with Owner and Owner's Engineer prior to commencement of work to resolve questions pertaining to the work and to establish basic administrative procedures and schedules. The meeting shall be held at least three weeks prior to the start of demolition.
- 3.2 Progress Meetings: Once the demolition work has begun, Contractor shall schedule, administer, and attend meetings with Owner and Owner's Engineer once a week or as deemed necessary by Owner to maintain optimum degree of communications between interested parties. Contractor shall include selected Subcontractors at such times as their interests may be involved.

4.0 OCCUPANCY

- 4.1 The Meadowlands Sports Complex will remain operational including its normal schedule of events and function during the work. Contractor shall take any and all measures necessary to protect persons and properties associated with on-site

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activities and activities occurring on adjacent properties from harm and damage during work activities.

5.0 PROTECTION AND SAFETY

5.1 Protection and safety of the surrounding community and property shall take the highest priority during abatement operations. All operations shall be conducted so as to prevent damage to adjacent buildings, structures, and other facilities and injury to persons. This shall include but not necessarily be limited to the installation and maintenance of protective structures when necessary such as catch platforms, tarpaulin or plywood barriers, trailer boxes, sidewalk sheds (bridges), and other measures as required by the Owner.

5.2 Contractor shall make a careful examination of the structures to be abated and of the adjoining property and take whatever precautions are necessary to carry on operations so as to prevent any settlement, collapse, damage from falling debris or other impacts to adjacent buildings, structures, sidewalks, paving, utilities, and other existing features. Any damage inflicted upon adjacent property, construction, or utilities by Contractor's work must be corrected promptly by Contractor at no cost to Owner.

5.3 All work adjacent to occupied buildings which may produce fire hazards or create nuisances or safety and health hazards from noise, vibration, gases, vapors, fumes, dust, mists, or odors shall not be performed unless preventative controls or measures are implemented. Special attention is brought to adjacent building fresh air intakes, air conditioning units, etc., which need protection from dust. Such review shall in no way relieve Contractor from its responsibility to execute the work in a safe manner and in accordance with all applicable Federal, State, and Local requirements.

5.4 Contractor shall be responsible for executing the work in a manner that is safe for its workers and persons in and around the job site and shall ensure free and safe passage of persons around the area of work. Any possible hazards resulting from abatement activities shall be corrected prior to continuation of work in that specific area. Owner reserves the right to stop work at any time in cases where the safety of Contractor's operation is in question or is in conflict with the Contract Documents. Owner's Engineer does not have the right to stop Contractor's work at any time.

6.0 EXISTING UTILITIES

6.1 Prior to the start of abatement activities, Contractor shall confirm that all utilities that are to be abandoned as part of the contract have been disconnected or plugged, and that all utilities to remain have been identified and protected.

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7.0 TEMPORARY SERVICES AND FACILITIES

- 7.1 The provision of temporary water, electricity, interior lighting, phone lines, and all other services and facilities for abatement operations shall be the responsibility of Contractor. Contractor shall also provide all necessary services and facilities as required by Federal, State, and Local applicable regulations, and shall contact the appropriate utility companies to arrange or connections and permits. Contractor shall pay all necessary fees for connection, metering, utility charge, and disconnection without charge to Owner.

8.0 SEQUENCE OF WORK - ELECTRICAL

- 8.1 This scope of work shall be sequenced by the Contractor such that the new generator is fully operational at the NJSEA Pump Station Facility, except during electrical and mechanical cutovers. These cutovers shall be coordinated such that electrical and mechanical work is performed concurrently to minimize any downtime. Contractor shall furnish schedule for Owner approval prior to performing any cutover work.
- 8.2 Existing Gen-1 and Gen-2 shall be demolished.
- 8.3 Remove existing daytanks, fuel piping to main tank, intake air louver/dampers on west side, supply air fan, lights, heaters, etc. as shown on plans.
- 8.4 Contractor shall furnish and install new Gen-1 in same location as existing Gen-1. The new generator shall be tested and commissioned to the extent possible prior to cutting over. Reference mechanical cutover sequence for additional details.
- 8.5 The new Gen-1 shall be providing back-up power to the site.
- 8.6 Furnish and install necessary generator controls and start circuit from existing ATS controller.
- 8.7 Contractor shall provide fire detection system complete with local alarm indication and remote (wireless) alarms to site personnel.

9.0 SEQUENCE OF WORK - MECHANICAL

- 9.1 Disconnect and remove existing exhaust piping systems and silencers in their entirety. Dispose as per Owner's instructions and in accordance with local regulations.
- 9.2 Disconnect and remove existing ventilation discharge air louver(s) and dampers.

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- 9.3 Disconnect and remove existing planks blocking ventilation intake opening and dampers located on the west wall in their entirety. Preserve controls and wiring for re-use, if applicable.
- 9.4 Disconnect and remove actuators serving ventilation intake louvers and dampers located on the east wall. Bring dampers to closed position and install a sheet metal cap to cover the abandoned installation.
- 9.5 Disconnect and remove existing intake air fan with associated damper and hood in their entirety. Preserve controls and power wiring for re-use, if applicable.
- 9.6 Disconnect and remove existing fuel oil piping and day tanks as required up to main tank. Coordinate with Owner in field as required.
- 9.7 Cap and protect existing 4000 gal. fuel storage tank to be re-used. Coordinate with new work piping plans.
- 9.8 Mechanical Contractor shall disconnect and remove existing fuel oil piping and day tanks in organized sequence. Coordinate demolition work sequence with new work installation. Remove major equipment following Owner's approval at each stage. Follow the work stages listed below:
 - A. Modify existing generator room area in building #3 to accept new generator (Gen-1).
 - B. Install new pipe in pie fuel oil piping and day tank (DT-1) for new generator (Gen-1)
 - C. Install required louvers, dampers, actuators, and exhaust fan with new cooling thermostat controls. Test the new system installation and controls operation. Adjust in field, as required.
- 10.0 DEMOLITION**
- 10.1 The Contractor shall furnish all labor and materials as required to complete demolition and removal of all items as indicated or as otherwise directed by Owner including temporary protection as indicated below:
 - A. Provide temporary protections as required to preserve existing items indicated to remain and restore damaged work to the condition existing prior to the start of work, unless otherwise directed.
 - B. Control dust and dirt caused by demolition operations. Area outside the area of work shall be kept clean from dirt and dust.

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- C. All active mechanical, electrical, and plumbing systems to remain shall be fully protected from damage during demolition and construction.
- 10.2 Temporary bracing, shoring, centering, and similar work shall be provided as required to prevent damage to the existing construction and finishes.
- 10.3 The Contractor shall execute all work within the regulations of the Owner for demolition and removal of debris, including overtime work required.
- 10.4 All work demolished shall be removed from the premises except items to be reused or returned to Owner or as otherwise directed.
- 10.5 The Contractor shall at all times protect the property of the Owner, including but not limited to: windows, floor and ceiling tile, toilets, doors, bucks, electrical and air conditioning equipment, etc.
- 10.6 Upon completion of the demolition work, the general contractor shall provide that all areas be left mopped clean. Areas should be left daily broom cleaned.
- 10.7 All equipment shown on drawings to be demolished shall be coordinated with Owner. Owner to instruct Contractor as to disposal of all materials and equipment.
- 10.8 Contractor shall furnish records that demolition is in accordance with EPA and local environmental requirements.
- 12.0 CLEANING**
- 12.1 General: Execute cleaning during process of the Work and at completion of the Work, as required by the general conditions.
- 12.2 Disposal requirements: Conduct cleaning and disposal operations to comply with codes, ordinances, regulations, and anti-pollution laws and in full compliance with all NJDEP regulations.
- 12.3 Products: Use only those cleaning materials which will not create hazards to health or property, and which will not damage surfaces.
- 12.4 Use only those cleaning materials and methods recommended by the manufacturer of the surface material to be cleaned.
- 12.5 Use cleaning materials only on surfaces recommended by cleaning material manufacturer.

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- 12.6 Execution: Execute periodic cleaning to keep the Work, the site, and adjacent properties free from accumulations of waste materials, rubbish, and windblown debris resulting from construction operations.
- 12.7 Provide on-site containers for the collection of waste materials, debris, and rubbish. Remove waste materials, debris, and rubbish from the site periodically, and dispose of at legal disposal areas away from the site.
- 12.8 Dust Control: Clean interior spaces prior to the start of finish painting and continue cleaning on an as-needed basis until painting is finished.
- 12.9 Schedule operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly-coated surfaces.

13.0 FINAL CLEANING

- 13.1 Upon completion of work, Contractor will provide a broom clean and mopped down space. All new rubber base shall be free of construction dust, all enclosures cleaned down and free of all shoe marks and material fragments.
- 13.2 Remove grease, mastic, adhesives, dust stains, fingerprints, labels, and other foreign materials from site exposed interior and exterior surfaces.
- 13.3 Wash and shine glazing and mirrors. Polish glossy surfaces to a clear shine.
- 13.4 Prior to final completion or Owner occupancy, Contractor shall conduct an inspection of sight exposed interior and exterior surfaces, and all work areas, to verify that the entire Work is clean.

14.0 ELECTRICAL (GENERAL NOTES)

- 14.1 The following notes apply to the electrical system installation and are limited only by the requirements set forth in the latest adopted copy of the National Electrical Code, State, and Local codes.
- 14.2 The electrical system shown on drawings include plans, elevations, details, and diagrams. Any deviation from the drawings or standards must have the approval of the Owner's Engineer.
- 14.3 Conduit and cable runs are shown diagrammatically and are to be located approximately as shown on plan drawings where applicable.
- 14.4 Conduit and cable runs shall be at elevations shown in plans, details, and standards. Elevations may be varied to avoid interferences. Power conduits shall

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cross signal conduits at 90 degrees and shall maintain maximum clearance practical.

- 14.5 Before installing conduits and cables, a careful check shall be made to avoid interferences with piping, equipment, etc. If not otherwise specified, conduit runs must be kept at least 12" away from hot surfaces. A minimum clearance of 8" shall be kept where a conduit crosses a hot pipe.
- 14.6 Conduit and wiring not identified on drawings shall be determined as follows:
 - A. Minimum conduit size shall be 1" except as noted otherwise.
 - B. Minimum wire size shall be #12 AWG for power unless otherwise noted.
- 14.7 Conductors shall have insulation of the proper color to match standard color code system. As an alternative, the Contractor can use vinyl plastic electrical tape of the appropriate color around each cable at all termination points, junction, and pull boxes. Existing conductors involved with this scope of work all be corrected to match new. Color designations shall be in compliance with National Electric Code requirements and the following:
 - A. 480/277V (A, B, C, N): Brown, Orange, Yellow, Gray
 - B. 208/120V (A, B, C, N): Black, Red, Blue, White
- 14.8 Contractor shall tag every conduit at entrance to equipment, entrance and exit of each room the conduit passes through and at the point of final termination. Conduit shall be cleaned prior to applying. Label shall be a minimum of 12mm black/white Brady label with full size capital letter font. Tags shall match the equipment references in the construction documents herein.
- 14.9 Conduit runs not completely shown on drawings to equipment shall be routed in the field to suit.
- 14.10 Wire splices shall be kept to a minimum, and made in proper fittings. Splices shall be made with suitable insulated wire connectors. 3M or Burndy inline butt splices shall be used and double crimped on both sides with 3M cold shrink wrap covering.
- 14.11 All unused openings in fittings, boxes, etc., shall be plugged. During construction, all openings shall be kept closed to prevent moisture and foreign material, such as dirt and debris, from entering the conduit system.
- 14.12 All low points of the conduit system that may trap condensate, shall be suitably drained.

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- 14.13 All field drilled holes, cut edges, and welded areas of galvanized steel shall be deburred and touched up with galvo-weld paint, steel not furnished galvanized shall be painted.
- 14.14 All items not furnished by others and required to complete the installation in a good, workman-like manner shall be provided by the Contractor. These items may consist of miscellaneous steel supports, conduit straps, conduit clamps, wire connectors, conduit unions, insulating tapes, sealing compounds, masonry anchors, nuts and bolts, etc.
- 14.15 PVC sched. 80 conduit shall be installed underground unless otherwise noted for outdoor installations. EMT with steel compression type connectors may be used for indoor installations unless otherwise noted. Existing underground PVC conduits shall be cleaned and checked for obstructions.
- 14.16 Wire shall be type THWN copper except green insulated ground conductors run in conduit may be type TW copper.
- 14.17 All switchboard, panels, switches, and enclosed molded case breakers furnished by Contractor shall be listed. All equipment shall be copper bus interior.

15.0 GROUNDING NOTES

- 15.1 Contractor shall install new grounding electrode for the new generator in accordance with the requirements herein.
- 15.2 Contractor to furnish and install all fittings, rods, clamps, and wire, to establish ground connections between new equipment and the existing ground network.
- 15.3 A ground conductor shall be run in all conduits and raceways to bond electrical equipment to ground system unless otherwise noted.
- 15.4 Grounding shall be provided by a grounding cable connection from the equipment to the local ground network, at points indicated or other suitable ground points as required by the NEC.
- 15.5 Grounding and bonding for protection of the electrical system and equipment shall be installed to minimize damage in case of ground faults by providing low fault impedance, thereby limiting the voltage to ground and facilitating the operation of overcurrent devices. All equipment covered under this standard shall have ground lugs sized to accept one size smaller wire than its feeder.

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- 15.6 For aboveground work, ground conductors shall be solderless, pressure type (bolt on) as manufactured by Burndy or Anderson.
- 16.0 GENERAL SERVICES TO BE PROVIDED BY OWNER**
- 16.1 Electrical power - 480/277V & 208/120V, 60Hz power is available at site. Contractor will be responsible for extending power supply to satisfy his needs. No connections can be made without prior approval of the Owner or his representative. All other required utilities shall be provided by Contractor.
- 17.0 GENERAL CONDITIONS AND SERVICES PROVIDED BY CONTRACTOR**
- 17.1 Provide all utilities required for his work, not provided by the Owner.
- 17.2 The Contractor shall confine the storage of his material and equipment to his designated area and provide for his own field office, gang boxes, and storage area. The Contractor shall be prepared at all times to receive, unload, and handle items and any other materials, as may be required by this requisition without interference to other contractors or Owner. Contractor will be responsible for receiving, unloading, transferring, unpacking, and installing major equipment provided by Owner.
- 17.3 The Contractor shall advise the Owner's project representative immediately of any labor dispute being experienced or anticipated. Contractor shall also be responsible for the conduct of his employees and those of Contractor's subcontractors while such employees are on Owner's property.
- 17.4 Contractor's personnel shall maintain the schedule of starting, quitting, breaks, and lunch as directed by the Owner and in areas as designated by the Owner and work in harmony with other contractors, and/or Owner's own forces.
- 17.5 Contractor shall be responsible for layout and alignment of his work subject to review by the Owner of all work including all required interferences, checks of conduits, bus duct and equipment and providing pull boxes, fittings, etc.
- 17.6 Contractor shall have a full-time competent superintendent on the site who shall be fully authorized to act for the Contractor and to receive such orders as may be given by the Owner for the proper continuance of the work. Contractor shall submit with his proposal the name and resume of his superintendent.
- 17.7 Owner's engineers or representative shall have access at all times to the work at the site or at Contractor's offices or other's shops. If work is unsatisfactory, immediate steps shall be taken to revise the work to conform to the specifications when informed by Owner's engineers or representative.

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- 17.8 Contractor shall be responsible for maintaining a clean jobsite as required by Owner, OSHA, and any other governing legislation. The prompt collection and disposal of all wastes and/or scrap (not including old cable) shall be the responsibility of the Contractor. Owner may desire to designate a scrap area for waste resulting from Owner supplied materials. The Contractor shall turn equipment system over to the Owner free of trash and construction debris.
- 17.9 All modifications shall be carried out with due regard to Owner's operations and shall not cause loss of time to Owner's personnel by blockage of hallways, or access ways. All temporary conditions mentioned above shall be submitted to Owner's representative before implementation to avoid such problems.
- 17.10 Contractor shall assume responsibility for protecting from damage all existing facilities. He shall be responsible for the cost of repairing or restoring any damage to the Owner's property caused as a result of his work, to the satisfaction of the Owner, Owner's engineer or representative.
- 17.11 Contractor shall supply tools (capital and small) and consumable materials and shall be responsible for the security of same.
- 17.12 Smoking shall not be permitted within the project site at any time.
- 17.13 Materials furnished by Contractor shall be new and of first quality. Substitution shall not be made in either materials or manufacturer from those specified unless prior written approval has been obtained from the Owner.
- 17.14 Contractor shall provide identification badges for his employees to be worn at all times in plain view on outer garments during the work period.
- 17.15 Contractor shall provide adequate emergency medical facilities as required by law for the execution of his portion of the work.
- 17.16 Under no circumstances will drugs, alcoholic beverages, firearms, or weapons of any type be permitted on the jobsite. Possession of the above items on jobsite are considered grounds for immediate expulsion and discharge.
- 17.17 Contractor shall provide all material required for his work not specifically identified as being furnished by others.
- 17.18 Contractor shall:
 - A. Include the assistance of the manufacturer or vendor when necessary to make a satisfactory installation.

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- B. Remove all rust preventatives and oils used to protect the equipment during shipment and/or the construction period whenever these protective materials will be detrimental to operation.
- C. Remove all temporary supports, bracing, or other foreign objects that were installed in equipment to prevent damage during shipping, storage, and/or erection.
- D. Provide all materials not furnished by Owner required for the complete installation such as bolts, nuts, nails, lumber, anchor bolts, markers, touch up points, warning signs, and miscellaneous hardware.
- E. Provide on all wire and cable ends phase coding using 1/2 in. wide color tape spiraled for 12 in. of wire length.
- F. Provide manufactured plugs to seal box and conduit openings that resulted from alterations.
- G. Provide standby generator as maybe required to temporarily power equipment while modifications are being made to the power supply to the equipment.

18.0 INTERFERENCES AND COORDINATION WITH OTHERS

- 18.1 The Contractor shall obtain clearance from the Owner's project representative prior to installing equipment or material at any location where interferences might develop. Should the Contractor proceed without obtaining such clearances and interferences do develop, the Contractor must relocate his equipment, etc., and such relocation shall be completed at the Contractor's expense.
- 18.2 The plans are generally diagrammatic and the Contractor shall coordinate his work so that interferences between existing or new conduit, HVAC, sprinkler equipment, and structural work shall be avoided.
- 18.3 In no case shall the Contractor weld, cut, burn, or drill any structural member or mount electrical equipment or facilitate conduit installation without having previously received approval in writing from the Owner's representative. Contractor to provide patching and touch up paint and perform all required touch up painting of equipment and/or materials.
- 18.4 In the event of discrepancies between drawings and/or specifications, the price quoted by Contractor shall be based on the most complete drawings and/or specification requirements.

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18.5 Field Changes:

- A. All changes issued by the Owner shall be in writing. This authorization may take three forms:
 - 1. Drawing revision with a Transmittal Letter authorizing the Contractor to proceed pending submission of a request for change.
 - 2. Field order for minor work.
 - 3. Request for Change by Owner to Contractor with authorization to proceed upon approval of costs.
- B. Should the Contractor believe that a situation has developed that may be construed as a change, he shall notify the Owner by issuance of a properly executed Request for Change form with appropriate back-up of all costs involved.
- C. The Contractor shall maintain a list of scope changes. The items on the list will be discussed at the weekly progress meeting or at the end of shift meeting with Owner.
- D. Changes may be approved in one of the following forms:
 - 1. Negotiated lump sum.
 - 2. Unit price.
 - 3. Time and material with agreed overhead and agreed profit.
 - 4. Cost plus fee.
- E. Owner reserves the right to select the form.

18.6 Procedure for Change Order Request:

- A. The Requests for Change shall be submitted to Owner's Representative and processed in accordance with one of the following categories:
- B. Lump Sum: The Contractor shall submit lump sum estimate of the cost and time required to perform the work as specified. Markups shall be as stated in the purchase order. The Contractor shall number the estimate letters for reference.
- C. Time and Material: The Contractor's original copy of each time and material (T&M) sheet shall accompany the change order request and shall legibly include:
 - 1. The Contractor's company name preprinted.
 - 2. Date of work.
 - 3. Owner's purchase order number.

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4. Signature of Owner's Representative.
5. Signature of Contractor's Representative.
6. Owner's cost code.
7. Owner's authorized signature (if required)
8. Name of Contractor's personnel involved, including badge payroll number.

19.0 GENERAL NOTES AND CONDITIONS

- 19.1 All work herein shall be considered that of the Contractor. In any case of deviation or discrepancy within the construction documents the more stringent shall apply.
- 19.2 Contractor shall ensure that all sub-contractors fully investigate the jobsite to compare the Contract Documents and existing conditions relating to construction of new work and labor. The Contractor shall include all costs for all work described in the Contract Documents and required or implied by existing conditions.
- 19.3 The Contractor shall verify all dimensions and shall notify the Owner's Representative of any conflicts between the construction plans and existing conditions. The Contractor shall also notify the Owner's Representative of any omission or conflict in the drawings and any restrictions related to the execution of the work. All conflicts shall be resolved prior to the installation of any Work.
- 19.4 The Contractor shall thoroughly review the existing conditions to identify the impact on any existing function and shall coordinate his work schedules prior to commencement of new Work with Owner.
- 19.5 The Contractor shall be solely responsible for and have control over all constructions means, techniques, sequences, and procedures and for coordinating all portions of the Work required by the Contract Documents.
- 19.6 Unless specifically noted to the contrary, all new Work is in contract. Contractor shall furnish all labor, materials, equipment, and services necessary to complete the project outlined on this set of plans or reasonably inferable from them.
- 19.7 The Contractor shall exercise care and caution in removing all existing items noted to be removed.
- 19.8 The Contractor shall comply with all applicable federal, state, and local building codes and requirements.

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- 19.9 All work shall comply with good trade practice regulations of the county, state, and federal government agencies having jurisdiction.
- 19.10 The Contractor shall maintain a complete set of contract drawings on the project site at all times, and shall clearly and accurately record in color any changes or deviations in the originally specified work. Upon completion of the project, the Contractor shall forward a complete set of marked-up prints to the Owner for preparation as built drawings.
- 19.11 All Contractors shall provide and maintain proper and safe working conditions at all times, including but not limited to appropriate tools, equipment, scaffolding, shoring, etc.
- 19.12 No substitution of materials and/or construction items specified will be allowed without prior written approval of the Owner.
- 19.13 Substitutions will be allowed when the specified items cannot be obtained within the contract time. Specified items are to be used as a guideline for design. Samples are to be submitted to the Owner for approval before substitution.
- 19.14 Extra Costs: The Owner's written authorization must be obtained prior to the ordering of any materials, contracts, or the execution of any work in excess of original Contract.
- 19.15 Changes in the drawings or actual Work shall be issued in purchase order format by Owner's Representative.
- 19.16 All adjacent work shall be protected from damage caused by this Work. Any recurrent damage shall be the financial responsibility of the Contractor.
- 19.17 The Contractor shall schedule and perform all Work so as not to reasonably disturb any tenant in the building and shall be responsible for any Owner-related costs incurred thereby.
- 19.18 The Contractor shall keep the project site reasonably clean and free from hazards at all times. All existing egress requirements are to be maintained. The Contractor shall remove all trash and debris, broom clean the entire project area, and leave the site in a reasonably clean condition daily.
- 19.19 Two (2) weeks prior to completion, the Contractor shall notify the Owner to complete a punch list of corrections.

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- 19.20 The Contractor shall comply and coordinate all Work with Owner regarding heat, water, electricity, deliveries, access, elevator availability, noise control, trash and debris removal, hoisting and any other utilities or Owner's rules and regulations concerning the project site.
- 19.21 Contractor shall include in the bid the removal of debris and cleaning after all finish trades.
- 19.22 Contractor to verify acceptable building hours for all demolition work and removals prior to submitting bids.
- 19.23 After removals, all holes or defective plaster at columns, floor and perimeter, and interior partitions shall be patched free of all roughness and irregularities.
- 19.24 All items specified for reuse are assumed to be in good condition. Contractor to verify this and advise Owner of discrepancies prior to bidding. Contractor to store all above items so as not to damage them. Should damages occur, it is the responsibility of the Contractor to replace said items at his sole cost and expense.
- 19.25 Verify all dimensions in the field. Do not scale drawings. Dimensions shall govern. Large scale details govern over small scale details.
- 19.26 Submit for Owner's review prior to fabrication or purchase, shop drawings or major equipment (e.g. switchboards, ATS's, etc.), and all other items as required in the Contract Documents.
- 19.27 Patch all holes in existing walls caused by removal and/or alteration to match the adjacent surface. All damaged "existing areas to remain" and "existing areas" affected by demolition shall be patched as required to match immediate existing adjacent areas in material, fire rating, finish, and color.
- 19.28 Contractor shall do all cutting, fitting, and patching work that may be required to make all parts of the project come together properly.
- 19.29 The Contractor shall provide and install non-combustible bracing and blocking as required to support any wall-mounted fixtures, shelving, countertops, cabinets, etc. All wood blocking or bracing shall be pressure treated and fire-retardant.
- 19.30 All dimensions shown are finish to finish, unless otherwise noted.
- 19.31 Dimensions noted "+/-" are the only dimensions adjustable without approval of Owner's Representative.

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- 19.32 During the entire period of demolition, all existing exits, exit lighting, fire protection devices, and alarms shall be continuously maintained.
- 19.33 The Contractor shall provide and install fire extinguishers as required by the Federal Occupational Safety and Health Act (OSHA) by fire department regulations and as shown on the drawings.
- 19.34 Fire Barrier Penetrations: Where pipes pass through fire-rated walls, partitions, ceilings, and floors, Contractor shall maintain the fire-rated integrity.
- 19.35 This project is subject to the requirements of the Americans with Disabilities Act Accessibility Guidelines.

20.0 ELECTRICAL EQUIPMENT DEMOLITION NOTES

- 20.1 Disconnect power feeds from existing Generator 1 and Generator 2. Coordinate generator removal with other trades in field. Power feed connections to ATM are to be reused during new work phase.
- 20.2 Disconnect power from existing fan SF-1.
- 20.3 Disconnect power and remove power wiring to existing day tanks DT-1 and DT-2. Safe-off power feeds for re-use during new work phase.
- 20.4 Disconnect power from existing electric heater EH-1. Safe-off power feed for re-use during new work phase.
- 20.5 Disconnect power to existing damper actuators serving dampers on eastern wall. Safe-off power feeds securely as required.

21.0 MECHANICAL EQUIPMENT DEMOLITION NOTES

- 21.1 Disconnect and remove two (2) existing generators with associated existing exhaust air louvers and shutters and air discharge plenums. Install weather-tight seal for generator's discharge air opening not used during construction phase.
- 21.2 Drain remaining fuel, disconnect and remove existing generator's fuel lines with associated auxiliary installations in their entirety. Power connections shall be disconnected and wiring removed by the electrical contractor. Remove all equipment scheduled for demolition in an orderly sequence through openings created during demolition phase. Coordinate work in field as required.
- 21.3 Drain remaining fuel. Disconnect and remove existing day tanks with associated auxiliary installations in their entirety. Power connections shall be disconnected

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and wiring removed by the electrical contractor. Coordinate work in field as required.

- 21.4 Disconnect and remove existing OA louver with associated dampers. The existing damper actuators shall remain to be re-used during the new work construction phase. Protect existing actuators from damage and exposure to debris.
- 21.5 Disconnect and relocate existing electric heater EH-1 from the current location. Save and protect the heater for re-installation during the new work construction phase. Power connections shall be disconnected and removed in the electrical demolition phase. Coordinate work in field as required.
- 21.6 Disconnect and remove existing exhaust piping with associated silencers and supports in their entirety. Coordinate work in field as required.
- 21.7 Disconnect and remove existing wall mounted air supply fan SF-1 with associated hood and auxiliary installations. Power shall be disconnected by electrical contractor. Coordinate work in field as required.
- 21.8 Disconnect and remove existing space heaters EH-3 and EH-4 with paddle fan F-1 in their entirety. Power shall be disconnected and wiring removed and saved-off by electrical contractor. Coordinated work in field as required.

22.0 MECHANICAL FUEL PIPING DEMOLITION NOTES

- 22.1 Drain remaining fuel, disconnect, and remove existing piping sections.
- 22.2 Drain remaining fuel, disconnect, and remove existing fuel day tanks. Power supply connections shall be disconnected and removed in the electrical demolition phase. Coordinate work in field as required.
- 22.3 Disconnect and remove existing fuel gauge with associated tubing from the present location. Save for re-installation during new work project phase.

23.0 ELECTRICAL NEW WORK NOTES

- 23.1 Furnish and install new power connections between the new generator and the existing swgr. Furnish and install all controls necessary for new generator operation and monitoring. Provide flexible conduit connections to generator.
- 23.2 Re-connect existing power supply to new exhaust fan EF-1. Coordinate work with mechanical phase of construction.

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- 23.3 Connect power to the new day tank DT-1 using existing available circuits. Extend as required to new day tank. Coordinate work with mechanical phase of construction.
- 23.4 Re-connect power to relocated electric heater EH-1. Coordinate work with mechanical phase of construction.
- 23.5 Assist mechanical contractor in testing and replacing damper actuator serving the new OA louver on the west wall. Coordinate work with mechanical phase of construction.
- 23.6 Add/Alternate: Provide power and controls feeds to new fuel tank fuel level monitoring sensor, including new conduit(s) routed outdoors. Coordinate work with Owner and mechanical phase of construction.
- 23.7 Install two (2) 4" rigid Al. conduits through wall and cap for temporary connection of roll-up generator. Provide seal type sleeves in wall.

24.0 LIGHTING POWER NOTES

- 24.1 Unless otherwise noted, all devices and branch circuit wiring indicated on drawings is new. Existing homeruns to panels shall be reused.
- 24.2 Electrical contractor shall disconnect and remove existing lighting in generator room, including all fixtures, supports, wiring, home runs, and control devices and safe off. All new lighting shall be fed from existing panel "PP-1".

25.0 LIGHTING GENERAL NOTES

- 25.1 All electrical facilities shall comply with OSHA (Occupational Safety Health Act). The latest edition of the National Electrical Code, applicable state and local codes and regulations and electrical general specifications for this Contract.
- 25.2 Conduit, lighting panels, lighting fixtures, receptacles, and other items shall be located as shown on the drawings. If any deviation is required, approval shall be obtained from the Owner prior to change. Location of lighting fixtures and conduit runs shown on the drawings are in approximate, exact locations to be determined in the field to avoid interface with piping and structures, etc.
- 25.3 Conduit supports shall be provided where required such as fixture locations, receptacles, elevation changes, fittings, and boxes. All conduit support hardware shown as galvanized clamps, straps, clips, channel shall be hot-dipped galvanized steel finish.

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- 25.4 Contractor shall install unions, bushings, couplings, and nipples as required for proper conduit make up. Conduit fittings shall be installed with cover opening in the vertical plane or downward in the horizontal plane.
- 25.5 All unused openings in fixtures, boxes, and fittings shall be plugged.
- 25.6 Any field cuts, drilled holes, and welded areas of galvanized steel shall be deburred and touched up with galvo-weld paint. Steel not furnished galvanized should be painted in accordance with specifications for this contract.
- 25.7 Before installing lighting conduits, fixtures, etc., a careful check shall be made to avoid interferences with piping, equipment, etc., if not otherwise specified conduit runs must be kept at least 12" away from hot surfaces. A minimum clearance of 6" shall be kept where a conduit crosses a hot pipe. No electrical equipment, conduits, etc. shall be mounted directly above 26kV switchgear.
- 25.8 Conduit and wiring are identified on drawings only at:
 - A. Point of origin (usually panelboards)
 - B. Where a change occurs in conduit fill but only where necessary for clarity.
 - C. Continuation to or from other plans, elevations, details, or riser diagrams. Identification shall consist of conduit size, number and size of wires, panel tag number, and circuit number.
- 25.9 Conduit and wiring not identified on drawings shall be determined in field as follows:
 - A. Minimum conduit size shall be $\frac{3}{4}$ "
 - B. Minimum wire size shall be #12 AWG.
- 25.10 All above ground conduit shall be EMT unless otherwise noted. All above ground lighting conduit shall be $\frac{3}{4}$ " minimum or 1" maximum, where practical.
- 25.11 Lighting fixtures shall be mounted to existing structural steel. Minor variations to suit field conditions are allowable.
- 25.12 Horizontal or vertical conduit runs shall be supported from concrete walls with steel stud type expansion bolt and galvanized one-hole conduit clamp with galvanized clamp back spacer as required by NEC. Beam clamps shall be used to support conduits to roof structure.
- 25.13 Work all lighting drawings together with electrical construction and assembly drawings for applicable symbols, legends, fixture, and fixture schedule call-outs.

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- 25.14 EMT conduit shall be supported at least every 10' in addition to within 3' of each termination per NEC.

26.0 MECHANICAL NEW WORK NOTES

- 26.1 Furnish and install a new fuel day tank (DT-1) supplied by generator's vendor at location shown, following current regulations by authority having jurisdiction and manufacturer's recommendations. New power connections shall be performed by electrical contractor. Coordinate work with new generator installation in field as required. Tank shall be furnished by generator vendor and installed by mechanical contractor.
- 26.2 Furnish and install a new OA louver with associated dampers in the existing wall opening on the west side of the building. Verify wall opening dimensions in field prior to louver purchase. Investigate wall opening condition and conduct necessary repairs prior to louver installation. Reconnect existing actuators to new OA dampers. Re-position actuators and modify linkage as required to ensure proper operation as described in the mechanical specifications. Test actuators operation and replace damaged actuators with new units as required, similar to Honeywell Modutrol IV series, line voltage, spring return, normally open, matching existing actuators' sizes. Modify actuator controls of the damper located furthest away from the exhaust fan. The actuator power supply shall be modified to operate open when the generator or the exhaust fan (EF-1) are operating. All power connection modifications shall be performed by the electrical contractor. Coordinate work with new generator installation in field as required.
- 26.3 Furnish and install a new exhaust silencer with associated exhaust piping and fixtures following current regulations by the authority having jurisdiction and manufacturer's recommendations. Construct and install new silencer supports. Hire structural engineer's services for new suspended load analysis on roof supports prior to silencer supports construction. Coordinate work with new generator installation in field as required.
- 26.4 Assist the new generator unit installation. The installation shall follow current regulations by the authority having jurisdiction and manufacturer's recommendations. The new generator shall be aligned with existing discharge air and exhaust wall openings. All new power connections shall be installed by the electrical contractor. Protect surrounding installations from construction damage. Upon new generator installation completion, remove the temporary equipment ramps. Coordinate work with other equipment in field as required.
- 26.5 Furnish and install a new air exhaust louver with associated backdraft dampers and a discharge air plenum at the new generator. Construct a new air plenum to

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connect generator radiator discharge to the new exhaust louver. Confirm existing wall opening dimensions prior to the new louver purchase. Investigate wall opening condition and conduct necessary repairs prior to louver installation. Coordinate work with new generator installation in field as required.

- 26.6 Seal weather-tight back of the existing louvers and dampers located on the east wall with a galvanized sheet metal cap. Coordinate work in field as required.
- 26.7 Re-install existing electric heater (EH-1) at new location. All power connection modifications and reconnection shall be performed by the electrical contractor. Coordinate work in field as required.
- 26.8 Assist General Contractor in performing job site review for damages resulting from the new generator installation at the completion of the project. Conduct any necessary repairs. Match existing materials and finishes. Coordinate work in field as required.
- 26.9 Furnish and install a new exhaust fan (EF-1) in the existing wall opening. Verify opening size in field prior to equipment purchase. Power supply connections shall be performed by electrical contractor. Provide new exhaust fan with exhaust weather hood, bind screen, shutters, and line voltage cooling thermostat. Coordinate work in field as required.

27.0 MECHANICAL FUEL PIPING NEW WORK NOTES

- 27.1 Install new fuel piping sections connecting fuel storage tank with the new generator. Ensure that new fuel piping does not impact service access to equipment maintenance areas. All new piping installations shall conform to regulations by the local authority having jurisdiction and the equipment manufacturer's recommendations.
- 27.2 Install new vent and emergency vent piping to route fumes to the outdoors. Vent piping shall be installed to avoid bends that could trap fumes. Do not install valves in the vent piping. All new vent piping installations shall conform to regulations by the local authority having jurisdiction and the equipment manufacturer's recommendations.
- 27.3 Re-install fuel gauge at the new location. Test and repair the gauge as required to restore its operation. The current gauge is similar to model P-14 (hand pump type) by Pneumercator liquid level control systems. Coordinate in field with the site manager prior to start of work.
- 27.4 Prime new fuel lines prior to equipment testing.

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- 27.5 Add/Alternate: Furnish and install a fuel tank gauge monitoring system (similar to model TG-#L-D4B by Preferred Utilities Manufacturing Corp.) with associated fuel level sensor (similar to model TG-EL-WF-C by Preferred Utilities Manufacturing Corp.). Power supply to the new system shall be provided by electrical trade. Communications wiring and programming shall be by site controls vendor. Coordinate work with electrical contractor, communications vendor, and site Owner prior to new equipment purchase.
- 27.6 Add/Alternate: Test remaining fuel condition in the storage tank. Provide necessary fuel treatment and filtering or replace fuel with new, based on the fuel test results. Coordinate work with the Project Manager and Owner as required.

END OF SECTION 02000

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**SECTION 02100
TECHNICAL SPECIFICATIONS - MECHANICAL**

1.0 GENERAL

- 1.1 The latest edition of General Conditions of the Contract for Construction, or as required by the construction documents and/or the other engineer documents which are part of the Contract.
- 1.2 Bidders shall visit and carefully examine the area affected by this Work to familiarize themselves with the existing conditions and the difficulties that will affect the execution of this Work before submitting proposals. Submission of a proposal will be construed as evidence that such an examination has been made and later claims will not be recognized for extra labor, equipment, or materials required because of difficulties encountered which could have been foreseen had such an examination been made. Any discrepancies shall be brought to the Engineer's attention prior to bid. If discrepancies are not resolved to Contractor's satisfaction, they shall be qualified in their bid submission.
- 1.3 This Contractor shall review all construction documents associated with this project including general construction, demolition, architectural, mechanical, electrical, plumbing, and sprinkler plans and specifications. All work required in the bid which is indicated or implied to be performed by this trade in other sections of the Work shall be included in their bid. If a conflict occurs in the bid specifications and/or on the drawings, the more stringent situation shall apply.
- 1.4 Coordinate all work of the section with existing conditions and the work of other trades. The Contractor shall thoroughly acquaint himself with the Work involved and shall verify at the building all measurements necessary for the proper installation of the Work, obtaining the same when necessary, from the other Contractors and sections. Contractor shall also be prepared to promptly furnish to other Contractors any information relating to the Work of this section necessary for the proper installation of other contracts and shall cooperate to secure the best progress of, and harmony between, the work of the different contracts and sections in the interests of the installation as a whole. Confer with other contractors and Engineer for adjacent work to this section and arrange to have visible portions of work fit and harmonize in a manner satisfactory to the Owner's Representative.
- 1.5 The specifications are accompanied by drawings indicating the general location of equipment and connections thereto. Unless specifically dimensioned, locations of equipment and routings are approximate. Scales on drawings are indicated for bidding purposes only. Drawings shall not be scaled for constructions and manufacturing details. Certain systems are diagrammatic and give the general

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arrangement only. No added compensation will be permitted for variations due to field conditions. Exact locations and arrangements shall be determined in the field on the basis of details indicated on approved shop drawings, and supplementary information issued by the Engineer, and shall provide for operating efficiency, neatness of appearance, and ease of maintenance.

- 1.6 Guarantee: The Contractor shall guarantee and service the entire installation for a period of one year from the date of the final acceptance of the installation. The Contractor shall, during the period of the guarantee, replace or repair at his own expense any piece of equipment and/or materials which is found to be defective. The replacement or repair shall be performed the same day of notification in an emergency fashion when notified by the Owner or authorized representative. The Contractor shall also repair all damage to surrounding work caused by the failure, repair, or replacement of defective equipment. All refrigeration compressors shall have a factory guarantee including parts and labor for five years total. The final acceptance will be made after the Contractor has adjusted his equipment, balanced the various systems, demonstrated that it fulfills the requirements of the drawings and specifications, and has furnished all the required certificates of inspection and approvals.
- 1.7 Equipment and Materials: Most items of mechanical and electrical equipment and material are noted on the drawings or in the specifications with a manufacturer's name and catalog number. This designation is used to set the standard for construction, performance, operation, and appearance. Products of other manufacturers will be considered and ruled upon by the Engineer. The submission of a substitution implies that the item has all necessary Underwriters Laboratories, Board of Standards and Appeals, National Electrical Code, etc. approvals. Should the item be found not to have such approval, it shall be replaced by the Contractor at no additional cost to the Owner.
- 1.8 Substitutions: Deviations from Contract Documents and substitution of materials or equipment for those specified shall be requested individually in writing. Furnish information as required to demonstrate that the article, material, apparatus, product, or process to be used is adequately comparable to that specified in quality, finish, design, efficiency, durability, and general appearance, and has been elsewhere demonstrated to be serviceable for the purpose for which it is intended. If tests or demonstrations are required by the Owner's Representatives, the cost of such tests or demonstrations shall be borne by the Contractor. Describe reason for change, connections to adjacent materials, electrical services, service access requirements, differences in operating characteristics or cycles and all other points of deviation. Contractor to assume full responsibility for safety, coordination with other trades, operation, and performance of altered system.

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- 1.9 This Contractor, where applicable, is to obtain a copy of the site rules and regulations prior to bid submission. All work must be installed in accordance with the building rules and regulations. Determine requirements and the extent of premium time work required by the site. For the purpose of the bid, assume critical work (e.g. welding, braising, soldering, generator transfer, etc.) and critical services interruptions are to be performed outside normal business hours.
- 1.10 Removal, temporary connections, and relocation of certain existing work will be necessary for the installation of the new systems. All existing conditions are not completely detailed on the drawings. The Contractor shall survey the site and make all necessary changes required based on existing conditions for proper installation of new Work.
- 1.11 All necessary cutting and patching in floor slabs and walls for the new fuel oil piping and equipment work shall be performed by this Contractor. Perform work to match existing conditions.
- 1.12 Where pipe and/or controls conduits penetrate rated walls, the space between the insulation and the wall shall be caulked with non-combustible material in an approved manner. The Contractor shall coordinate elevations with existing remaining installations.
- 1.13 Access doors in finished construction: The Contractor shall prepare a list of all access doors (minimum 18"x18") required for operation and maintenance of all concealed equipment and other devices, which shall be supplied for installation. The cost to furnish and install access doors shall be included in this Contractor's bid.
- 1.14 New discharge air plenum shall arrive on the construction site sealed and remain protected from debris throughout construction prior to final installation. All volatile organic compound (VOC) limits of adhesives, sealants, and sealant primers must comply with current air quality OSHA requirements.

2.0 SCOPE OF WORK - PROJECT OBJECTIVES

- 2.1 Work by E.C., M.C., GC, etc.:
 - A. Disconnect and remove the existing generators. This work shall include removing existing exhaust air louvers and shutters associated with the existing generators and sealing the wall exhaust openings that are not to be re-used during construction phase.
 - B. The general contractor shall furnish and install the new power generator in the existing space. The new generator shall be supplied with a new day

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thank by the generator's vendor. Refer to mechanical equipment schedule for more day tank information.

2.2 Work by Mechanical Contractor:

- A. Mechanical contractor shall remove the existing OA intake dampers, existing supply air fan (SF-1), existing generator' exhaust piping with silencers, sections of existing fuel piping, existing day tanks and the associated auxiliary systems.
- B. Mechanical contractor shall install the new day tank (furnished by the general contractor as part of the new generator package), day tank controls, the necessary sections of new fuel oil piping distribution and auxiliary equipment. The new work shall also include the new discharge air plenum, new exhaust piping with a silencer, insulation, and controls, accessories and the associate auxiliary installations.
- C. Mechanical contractor shall install all necessary new piping connections between the new generator, the new day tank, and the main fuel storage tank to construct a complete functional fuel supply system for the new generator. Refer to "Purchase and Installation Specifications for a New Indoor Standby Engine/Generator System" document for more information. All work shall be performed in accordance with the New Jersey Building Code, and regulations by all national, state, and local authorities having jurisdiction, building management requirements, construction documentation drawings, and these specifications.

2.3 The Work shall include all labor, materials, equipment, hoisting and rigging, breakdown and setup of equipment for installation, scaffolding, and services to complete the installation and provide the Owner with a fully operational system. Any equipment, parts, materials, accessories, or labor that is necessary for proper performance of the mechanical work, although not specifically mentioned herein or shown on the Drawings, shall be furnished and installed without additional costs. When installation of a part of any system (fuel distribution, electrical or otherwise) requires a shutdown of any operating system, connect the partial system only after notification to and with approval of the Owner. Coordinate activities with those of subcontractors so the operation is restricted to as short an interval as possible and "Out of Service" time of these facilities is kept to a minimum. Any shutdown of the electrical system affecting the site shall be done outside of the site operating hours as approved by Owner.

2.4 The site management requires not less than seven (7) days notice for shutdown of any critical site systems.

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- 2.5 Make an accurate take-off all existing equipment, air plenums, piping, louvers, dampers, conduits, panelboards, wiring devices, and other accessories being removed during demolition and include the cost for disconnecting and removal of stated equipment, etc. into the base bid. Removals shall be as specified and/or noted as indicated on the drawings. In certain cases, equipment or materials designated for removal shall remain the property of the Owner and shall be turned over at locations on the site as directed by the Owner.
- 2.6 Plan installation of new Work and connections to existing installations to ensure minimum interference with regular operation of existing facilities. All system shutdowns affecting other areas shall be coordinated with project management.
- 2.7 This Owner shall procure the services of a third-party inspection company to perform all special inspections in accordance with the site requirements. Secure all required permits and approvals and transmit same to the Owner. Contractor shall be responsible for all fees.
- 2.8 This Contractor shall include as part of the contract demolition, removal or relocation of existing equipment, materials, appurtenances, etc. as indicated on the drawings or as herein specified or required. Where all piping, ducts, and outlets are removed, interrupted, or broken, provide the required relocation, reconnection, or replacement to restore service to all items not made obsolete by this Work.
- 2.9 All equipment, material, etc. removed under this contract and not intended for final use in the final installation shall be immediately removed from the premises and turned over to or disposed of, as directed by the Owner.
- 2.10 Any demolition or modification work, as indicated in the drawings and not herein specified, or vice-versa, shall be completed by this Contractor and shall be included as part of the contract.
- 2.11 The Contractor shall relocate and reconnect all new and existing lines and equipment interfering with new installation. Verify all existing conduits and related appurtenance installation heights with that of the new installation, maintaining access to all existing points of access.
- 3.0 SHOP DRAWINGS, EQUIPMENT SUBMISSION, MAINTENANCE MANUALS**
- 3.1 Submit one (1) reproducible and one (1) print of the sheet metal and piping shop drawings, 1/4" = 1'-0" or 3/8" = 1'-0" scale, certified by all trades that coordination has been established.

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- 3.2 Submit three (3) copies of all sheet metal and piping shop standards leakage test certifications and certified equipment cuts with construction wiring diagrams, and automatic temperature control shop drawings including control and power wiring diagrams, sequence of operations, and all cuts of equipment and devices.
- 3.3 Submit four (4) book bound installation, operation, and maintenance (IOM) manuals which shall include copies of all as-built shop drawings folded and placed into binder pockets, as-built drawings in electronic format, copies of reviewed equipment cuts for installed equipment, copies of equipment start-up checklists, leak tests, fuel lines hydrostatic tests, and fuel treatment certification. Contractor shall instruct Owner's personnel on the operation of all newly installed fuel supply systems.
- 3.4 As work progresses and for duration of the Contract, Contractor to maintain a complete separate set of prints of contract drawings at the job site. Record work completed and all changes from original Contract Drawings clearly and accurately, including work installed as a modification or addition to the original design. Record valve tags as they are installed. Final submission of reproducible as-built drawings are to be signed and certified by Contractor confirming the as-built condition of the work. As-built shop drawings shall be submitted in drawing and electronic format (AutoCAD 2007 minimum)

4.0 PRODUCT/APPLICATION

- 4.1 Discharge Air Plenum: Provide a new discharge air plenum to connect the new generator radiator discharge side to the outdoor exhaust louver with associated service access doors and supports and perform leak test per latest SMACNA standards and NFPA 37 requirements. All discharge air plenum joints shall be sealed airtight with approved duct sealant, similar to 3M-900 or better.
- 4.2 Contractor shall adhere to the full inside cross sectional discharge air plenum areas shown on the drawings and provide all transitions as required to meet field conditions, accommodate equipment maintenance requirements, and coordinate with all trades. All field conditions which require modified transitions shall not be approved without prior engineering review and approval through shop drawing submittal or RFI.
- 4.3 New discharge air plenum shall meet pressure classification, sealing requirements, and leakage testing as listed below unless otherwise specified or shown on the drawings:
 - A. 4" class: All air plenums from discharge of generator's radiator to outdoor exhaust louvers. Seal class A, leakage class 6, provide TDF flange connections for all system 4" pressure class and above.

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- 4.4 Materials:
- A. Sheetmetal: Hot-dipped galvanized sheetmetal with G90 commercial coating according to ASTM A653 & A924 for all ductwork unless otherwise specified.
 - B. Flexible connections at fans shall be neoprene coated, flame retardant glass fabric (complying with NFPA 90), 30 oz./sq. yd. with sewed and cemented seams.
- 4.5 Motorized dampers located in outdoor air intakes or exposed to moisture shall conform to the following:
- A. Extruded aluminum damper frame shall not be less than 0.080" (2.03 mm) in thickness. Damper frame shall be a minimum of 4" with duct mounting flanges on both sides of frame. Damper frame shall have a minimum of 2" (50.8 mm) mounting flange on the rear of the damper, when installed as extended rear flange install type. Frame to be assembled using zinc-plated steel mounting fasteners. Welded frames shall not be acceptable.
 - B. Blades shall be maximum 6.4" deep extruded aluminum air-foil profiles with a minimum wall thickness of 0.06". All blades shall be symmetrically pivoted.
 - C. Blade seals shall be extruded EPDM, secured in an integral slot within the aluminum blade extrusions and shall be mechanically fastened to prevent shrinkage and movement over the life of the damper. Adhesive or clip-on type blade seals will not be approved.
 - D. Frame seals shall be extruded silicone, secured in an integral slot within the aluminum frame extrusions and shall be mechanically fastened to prevent shrinkage and movement over the life of the damper. Metallic compression type jamb seals will not be approved.
 - E. Linkage hardware shall be corrosion-resistant zinc-plated steel, installed to be easily accessible after installation.
- 4.6 Piping: Provide piping which is schematically indicated and sized on drawings. Piping to be installed to meet specified headroom or field conditions and shall conform to latest ASME codes for fuel oil piping. Pipe materials and fitting materials shall be as per the pipe and fitting schedule shown on drawings. All new indoor fuel piping installations shall comply with NFPA 37 requirements.

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- 4.7 Piping, fittings, and all pipe appurtenances shall be suitable for the pressure and temperature of service.
- 4.8 Provide dielectric fittings to connect different piping materials.
- 4.9 Provide air vents with caps at each high point and drain valves with caps at each low point to allow for fuel lines priming and draining.
- 4.10 Support piping with hangers equipped with insulation saddles from approved concrete inserts, expansion shields beam clamps, and/or supplementary steel angles, planes, and channels. Contractor shall submit method of piping support signed and sealed by a licensed professional engineer for review.
- 4.11 Unions with removable sections of piping shall be installed at all equipment to permit ease of disconnection for equipment service/removals without dismantling of major portions of connected piping.
- 4.12 All pipe sleeves shall be schedule 40 galvanized steel. Annulus between pipe or pipe insulation and sleeve shall be caulked with a non-combustible material to within 1/4" of wall faces and filled with caulking compound for interior sleeves. Exterior sleeves or waterproof sleeves shall utilize link seal (LS) type to fill the annulus.
- 4.13 Provide securely fastened labeling of all piping (both exposed and concealed) in accordance with ANSI standards and color-coded as per building management standards. Labeling should be provided 20 feet on centers and/or at least once in each enclosed space or room where the walls extend above the ceiling.
- 4.14 All piping shall comply with the current International Mechanical Code and the provisions of the following:
 - A. ASME B 31.9 "Building Services Piping" for materials, products, and installation. Safety valves and pressure valves shall bear the appropriate ASME label.
 - B. ASME "Boiler and Pressure Vessel Code", Section IX, "Welding and Brazing Qualification" for qualifications for welding processes and operators.
- 4.15 Fuel Oil Piping:
 - A. Fuel oil supply and return piping 3" and smaller to be schedule 40, ASTM A539, black steel, threaded ends.

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- B. Fuel oil piping fittings 3" and smaller to be 150# malleable iron, threaded ends W/1 bead of weld to seal joint.
 - C. Fuel oil unions 2-1/2" and smaller to be 150# malleable iron ground joints, threaded.
 - D. Dielectric unions to be threaded and connections to suit application. Unions shall be constructed to isolate dissimilar metals, prevent galvanic action, and prevent corrosion.
 - E. Fuel oil piping routed over areas not protected by fuel spill containment installations shall be protected by a secondary shell (double wall piping) capable of containing the leaking fuel. The secondary shell shall be constructed and installed to allow for controlled removal of the collected fuel oil.
- 4.16 Provide valve tags and charts:
- A. Each valve shall have a 2-inch diameter brass tag with 1-inch-high numeral stamped thereon, secured to the valve by means of brass hook or brass chain. Each system to have a letter designation indicating service.
 - B. The Contractor shall furnish an approved neatly drawn valve chart, properly framed, showing the use and location of each valve that is tagged.
- 4.17 Valves and Strainers:
- A. Valves, strainers, etc. shall not contain asbestos and have the name of the manufacturer and guaranteed working pressure cast or stamped on bodies. Valves of similar type shall be by a single manufacturer. All valves and fixtures shall be fire-tested to meet American Petroleum Institute (API) Standards 607 & 608, 4th Edition, and ASME Standard B16.34.
 - B. Valves shall have working pressure and temperature ratings same as pipe fittings specified for the service. Regardless of service, valves shall not be designed for less than 125 psi working pressure.
 - C. Gate valves – through 2-1/2" shall be bronze body and trim, non-rising stem, inside screw, screwed bonnet, solid wedge, back seating, screwed or soldered ends as manufactured by Crane, Jenkins, Nibco, Morrison Bros or approved equal.
 - D. Ball valves – through 2-1/2" shall be bronze body, silicone bronze ball, steel handle, Teflon packaging, screwed or sweat ends, 125lb, WSP, 400#

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WOG, as manufactured by Milwaukee, Apollo, Watts, Nibco, Morrison Bros or approved equal.

- E. Relief valves – Provide over pressure relief valve as an integral part of the fuel pump assembly. Relief valves as manufactured by Morrison Bros or approved equal.
- F. Strainers – Threaded cast steel for 150 psig working pressure, Y-pattern with 1/32-inch stainless steel perforated screen, as manufactured by Morrison Bros or approved equal.
- G. Emergency Isolation Valves – Threaded cast steel for 150 psig working pressure, as manufactured by Morrison Bros or approved equal.

4.18 Piping Testing:

- A. Pneumatically test tanks in accordance with manufacturer's recommendations upon arrival at the project site and after tank installation to assure tank integrity.
- B. Subject piping system to 1.5 times the maximum working pressure for a minimum of 2 hours, the test pressure shall not exceed the maximum pressure for any component in the system under the test. Inspect the system and tighten, repair, or replace leaking components as necessary. Repeat test until there are no more leaks. Flush system thoroughly with diesel fuel until all moisture or debris is removed and diesel is clear. Fill system with clean diesel fuel, close end valves and allow system to remain filled. Legally dispose of flush diesel.
- C. Secondary containment piping test: Seal secondary containment piping to primary piping at both ends with concentric termination fittings as recommended by the manufacturer. Provide test gauge and pipe connection at this point for pneumatic testing. Pneumatically test system at 15 psi for ten (10) minutes, then soap all joints and check for leaks. Retest until there are no leaks and system is proven tight.
- C. No testing shall be conducted until pipe cleaning and pretreatment has been completed and recorded.
- D. All testing shall be coordinated by the Contractor and shall be witnessed by a building Owner's Representative. All systems which fail the pressure tests shall be fixed and retested at no expense to the Owner.

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- E. Isolate all equipment which is to be excluded from the pressure test and provide all temporary piping connections, fittings, valves, equipment, labor, etc., to pressure test all systems.
- 4.19 Insulation Requirements: Insulation shall be applied to exhaust piping and silencer constructed of materials as specified herein. Insulation shall have a flame spread rating not exceeding 25 and a smoke developed index of 50 or less and shall meet the requirements of ASTM, NFPA.
- 4.20 Where insulation is specified for piping, insulate similarly all connections, flanges, and fittings and other parts of the system. Prevent excessive heat dissipation to space.
- 4.21 All equipment, fittings, devices, etc. requiring servicing or inspection shall have removable insulation which can be replaced without damage.
- 4.22 All leak and pressure tests shall be completed prior to the installation of any insulation.
- 4.23 Exhaust pipe installation:
 - A. Insulation shall be composed of 100% type "E" glass fibers needled together into mat form, encapsulated with 304 SS mesh and covered with 32 oz./sq. yd. silicone fabric. It shall be non-respirable, incombustible, asbestos free and shall contain no resinous or inorganic binders. Insulation materials shall conform to ASTM E84, rated for 1200 degrees Fahrenheit temperature and minimum 2" thickness with thermal conductivity "K" factor of 0.60 BTU/inch/hr./ft²/°F at 700 °F. Insulation to be provided with reinforced foil faced, flame resistant, aluminum metal barrier. All insulation shall be secured and seams sealed by two-inch sealing lip with adhesive and fastened with 16-gauge rust resistant wire or fiberglass cord on 12" centers. On vessels over 24" wide, welded pins and clips shall be used on the underside for fastening insulation. The insulation shall limit the surface temperature to approximately 400 °F.
 - B. Connections: Tacks; temperature resistant color matching tape.
 - C. Installation, Examination, and Preparation:
 - 1. Verify that all piping has been leak tested per the specifications before applying covering materials.
 - 2. Verify that all surfaces are clean, dry and free of foreign material.
 - 3. Install materials in accordance with manufacturers recommendations, building codes, and industry standards.

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4. Locate cover seams in least visible locations. Neatly finish insulation at supports, protrusions, and interruptions.
 5. For pipes (other than exhaust) exposed to abuse in finished spaces or exposed to outdoor sun and wind action, provide Johns Manville Zeston 2000 PVC jacket and fitting covers or aluminum jacket. Jacket seams shall be located on side of fittings and horizontal pipe runs.
- 4.24 Seismic Restraints: All equipment and piping shall be adequately restrained to resist seismic forces. This specification is in addition to the specified vibration isolation for this project. Restraint devices shall be designed and selected to meet seismic requirements as defined in the latest issue of the State and Local Code having jurisdiction.
- 4.25 Seismic-Restraint Performance Criteria:
- A. Piping:
 1. Piping 1" in diameter exposed in generator rooms does not require seismic restraint.
 2. Piping 2 1/2" and less in all other areas does not require seismic restraint.
 3. Piping with hangers less than 12" long does not require seismic restraint.
 - B. Non-Standard Piping: All other piping, other than listed above, requires seismic restraint to be selected based on the following requirements:
 1. Component seismic coefficient: 0.67.
 2. Performance criteria factor: 1.0.
 3. Attached amplification factor: 1.0.
 4. WC = Weight distributed to each hanger.
- 4.26 Vibration Isolation Systems: All rotating, revolving, or reciprocating equipment, including piping connections to this equipment shall be acoustically isolated to prevent the transmission of objectionable noises, sound, or vibrations to the occupied spaces and to the building structures. All vibration isolation products shall be specifically designed for their intended use.
- 4.27 Static deflection of isolators shall be a minimum of 90% efficient.
- 4.28 Manufacturer of vibration isolation equipment shall determine vibration isolator sizes and locations, provide suitable piping and equipment vibration isolation systems, guarantee specified isolation system attenuation and deflection, and provide installation instructions, drawings, and field supervision to assure proper installation and performance.

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- 4.29 Mounting Types:
- A. Floor supported piping isolators (type SLR).
 - B. Vertical riser piping anchor and guides (type ADA).
 - C. Ceiling supported piping isolators (type 30N).
- 4.30 Provide flexible connections between fan outlet and discharge air plenum inlet as per air plenum specifications.
- 4.31 Flexible hose connectors shall be installed at inlet and discharge connections to all powered equipment.
- 4.32 Spring type 30N hangers shall be provided for piping for a distance of 50 feet or 50 pipe diameters, whichever is greater, up and downstream of all power-driven equipment. The hanger shall provide 1" of static deflection for pipes 4" of outside diameter and larger and 1/2" static deflection for pipes smaller than 4" with outside diameter.
- 4.33 Vibration isolators for floor or ceiling supported equipment shall have a maximum lateral motion under equipment start-up or shut-down conditions of 1/4" and motions in excess shall be restrained by spring type mountings.
- 4.34 Vibration isolator shall be provided by Mason Industries, Vibration Eliminator Co., Consolidated Kinetics Co., or approved equal.

5.0 EQUIPMENT

5.1 General:

- A. The Contractor shall be responsible for transporting equipment to job site, rigging, breakdown, and set-up of equipment as required for location of equipment, installation, and all guarantee and warranties of equipment and workmanship. Delivery of equipment should be coordinated with Owner, manufacturer, and site management.
- B. Provide all equipment and accessories of the sizes and capacities as indicated on the drawings.
- C. Install equipment in accordance with approved shop drawings, manufacturer's instructions, and regulations which apply.
- D. All equipment power supply shall be wired by electrical trade, in accordance with manufacturer's instructions and regulations which apply.

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- E. Provide and install all equipment and accessories of the sizes and capacities as scheduled and as indicated on the drawings and in accordance with approved shop drawings and manufacturer's recommendations. Provide all motor starters as required. Motor starters will be installed by this Contractor and wired by electrical trade.
 - F. Contractor installing equipment is responsible for maintaining all required clearances for servicing and maintenance. Coordinate requirements with all trades.
- 5.2 Rectangular Simplex STS Double Wall Fuel Storage Tank (Day tank supplied with generator):
- A. Provide and install a Simplex day tank, model STS, thermally insulated, rectangular double-wall steel construction.
 - B. The tank shall be designed for open space storage of flammable and combustible liquids at atmospheric pressure. Tank shall include integral steel secondary containment and thermal insulation that provides a minimum two-hour fire rating.
 - C. The tank shall be delivered as a complete UL-listed assembly with two factory supplied, welded-on saddles. Size and location of saddles shall be as required by equipment manufacturer. Saddles to be set level on a solid foundation.
 - D. Tank shall be designed for possible relocation at a future date.
- 5.3 STS Day Tank Options:
- A. Day tank shall be constructed in compliance with UL142, secondary containment tank (double wall construction) of required capacity, with factory standard pipe fittings.
 - B. The tank shall be factory equipped with the following:
 - 1. Tank leak sensor
 - 2. UL508A level controller with point sensing float switch array
 - 3. Duplex fill pump, 2 gpm, 120VAC, single phase, 60 Hz.
 - 4. Simplex return pump, 7 gpm, 120VAC, single phase, 60 Hz.
 - 5. Fill check valve
 - 6. Packaged for indoor installation
 - C. Tank finish: Coated Simplex Carolina Vermillion.

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- D. Controller finish: Coated Simplex Costal Haze.
- 5.4 STS Day Tank Fuel Level Controller (Indoor):
- A. The controller shall be packaged in type 1 enclosure with hinge-open and lockable front door constructed in compliance with UL508A.
 - B. The controller shall be equipped with the following functions:
 - 1. Auto-off-manual control switch
 - 2. Press-to-test pushbutton
 - 3. Tank fill automatic differential level
 - 4. Overfill control backup
 - 5. Leak detection
 - C. STS controller indication functions (LED) shall include:
 - 1. Fuel level
 - 2. Power available
 - 3. Not in auto (flashing)
 - 4. Tank filling
 - 5. Low level alarm
 - 6. High level alarm
 - 7. Tank leak
 - D. STS controller output functions shall include:
 - 1. Fill start-stop
 - 2. Low level alarm
 - 3. High level alarm
 - 4. Tank leak
 - 5. Not in auto
 - E. Tank construction shall comply with the latest edition of National Fire Protection Association NFPA 30 Flammable and Combustible Liquids code. The tank's secondary containment must be tested for tightness in the factory and in the field before commissioning. Tank shall be supplied with emergency vents for the primary and the secondary containment tanks. Emergency venting by "form of construction" is not equal and will not be permitted.
 - F. Inner and outer tank shall be manufactured in accordance with UL-142 standard for steel aboveground tanks for flammable and combustible liquids. Entire tank shall be labeled for Underwriters Laboratories UL 2085 Standard for Insulated Secondary Containment Aboveground tank for Flammable Liquids. The tank shall be tested for ballistics, impact, hose stream, and pool fire UL-2085 performance standards.

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- G. Tank shall be manufactured and labeled in strict accordance with the Steel Tank Institute (STI), thermally insulated, double wall steel aboveground storage tank standards as applied by a licensee of the STI. Tank shall be subject to the STI's Quality Assurance program and shall be backed by the STI 30 year limited warranty.
- 5.5 Fuel Day Tank Construction:
- A. Tank shall be fabricated per UL-142 of mild carbon steel with shell seams of continuous lap weld construction.
 - B. Tank shall be of double wall construction and provide complete secondary containment of the primary storage tank's contents by an impervious steel outer wall.
- 5.6 Diesel Engine Exhaust System
- A. The exhaust system shall be constructed and installed in field by the Contractor. Pipe assembly and components shall be listed by the Underwriters Laboratories, Inc. for use with stationary engines burning gas or liquid fuels, as described in NFPA 37 Chapter 8.1, which produce exhausted flue gases at a temperature not exceeding 1000 degrees under continuous operating circumstances.
 - B. The exhaust piping route between the silencer and the outdoors shall be as short and as straight as possible. The exhaust discharge shall be located a minimum of 36" from the wall. Any turns and offsets shall be constructed with the long radius ells. Under no circumstances the exhaust gas static pressure inside the exhaust pipe shall exceed the engine back-pressure.
 - C. The double wall (insulated) exhaust piping shall be installed inside the generator room and shall have an outer jacket of aluminum coated steel .025" thick in 6" through 24" diameters and .034" thick for larger diameters. There shall be minimum 2-1/2" insulation between the walls. The inner gas carrying pipe shall be schedule 40 black steel.
 - D. All fittings and appurtenances outside the generator's enclosure shall be constructed with schedule 40 black steel. The outdoor sections shall be of single wall construction.
 - E. Connections to silencers and expansion joints shall be made with matching flanges. Matching flanges shall be of the same size, thickness, bolt hole spacing, and pressure rating as the flanges to which the connections are made.

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- F. All flanged connections shall be gasketed. Gaskets shall be suitable for temperatures up to 1200 degrees Fahrenheit, minimum 1/16" thick.
 - G. Each expansion joint shall be wrapped with an insulation blanket similar to blankets manufactured by Miratech Corp. (Tulsa, OK), or equal. The outer jacket shall be woven fiber glass with silicone rubber impregnation. The insulation shall be similar to Miratech Corp. (Tulsa, OK) type-2 fiberglass insulation blanket encapsulated in 304 SS mesh, suitable for temperatures of up to 1200 degrees Fahrenheit, or equal.
- 5.7 Installation:
- A. The stack system shall be installed according to and shall comply with the following additional codes or standards:
 - 1. NFPA-37 - Chapters 8.2 and 8.3
 - B. Inner pipe joints shall be welded according to ASME B31 Code (High temperature gas application).
 - C. The piping and its supporting system shall resist side loads (whether system is horizontal or vertical) at least 1.5 times the weight per foot of the piping. The piping shall be reinforced and installed to withstand the seismic and wind forces, as required by Local authority having jurisdiction.
 - D. Provide all hangers, supports, expansion joints, anchors, etc. and appurtenances thereto for a complete system.
- 6.0 **EXECUTION**
- 6.1 Contractor's Responsibilities: Provide and install all equipment and accessories of the sizes and capacities as scheduled and as indicated on the drawings and in accordance with approved shop drawings and manufacturer's recommendations. Provide all motor starters as required; motor starters will be installed by this Contractor and wired by electrical trade.
- 6.2 Contractor is responsible for maintaining all required clearances for servicing and maintenance. Coordinate requirements with all trades.
- 6.3 Identification of Equipment and Controls:
- A. All equipment shall be stenciled or labeled with lamacoid plates screwed thereon which shall indicate systems service.

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- B. Motor starters shall be provided with lamacoid plates which indicate system served.
 - C. Contractor to submit list of equipment to receive labels and the coordinated designations, size of label lettering, plate size, and color for review prior to installation.
- 6.4 For all floor mounted equipment, provide a 4" high concrete house-keeping pad; where floor stands are indicated, provide floor stand of structural steel or steel pipes and fittings and bolt to pad; for roof mounted or surface mounted equipment, provide supports with approved anchors directly from building steel structure. Provide supplementary steel as required to adequately support the load.
- 6.5 Fuel Day Tank Installation: Tank shall be installed on a reinforce concrete base constructed by General Contractor. Installation and testing shall be in strict accordance with Steel Tank Institute (STI) installation and testing instructions for thermally insulated, lightweight, double wall aboveground storage tanks.
- 6.6 Approved Manufacturer: Tank shall be manufactured by Simplex, Inc., or equal.
- 6.7 The day tank shall be positioned and installed according to the main fuel storage tank and engine location. In general, locate the day tank as close to the engine as possible consistent with applicable National and Local plumbing and electrical codes. Position the day tank so that the highest fuel level in the tank is lower than the engine injectors. The day tank shall be located not farther than 200 feet from the main fuel tank. The day tank shall not be more than 18 feet higher than the lowest fuel level in the main fuel tank. Day tank location in a confined space shall consider accidental fuel spillage and use a rupture basin when necessary. Do not locate the day tank near a surface or object which may be adversely affected by fuel oil.
- 6.8 Clean and flush day tanks prior to delivery to the project site. Seal until pipe connections are made.
- 6.9 Provide piping connections to tanks with unions and swing joints. Provide venting as per code.
- 6.10 Fuel Piping Installation: Installation shall meet or exceed all applicable federal, state and local requirements, referenced standards and conform to codes and ordinances of authorities having jurisdiction.

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- 6.11 All installation shall be in accordance with manufacturer's published recommendations.
- 6.12 Piping Connections: use compatible sealant when assembling all threaded joints and fittings.
- 6.13 Route piping in orderly manner and maintain gradient.
- 6.14 Install piping to conserve building space and not interfere with use of space.
- 6.15 Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
- 6.16 Provide clearance for access to valves and fittings.
- 6.17 Provide access where valves and fittings are not exposed.
- 6.18 Identify piping systems with metal tags or approved equal.
- 6.19 Install valves with stems upright or horizontal, not inverted.
- 6.20 Protect piping systems from entry of foreign materials during construction by installing temporary covers, completing sections of the work that can be isolated and isolating parts of completed system.
- 6.21 Installation of piping shall conform to NPFA 31 or NFPA 37, as applicable, and the following:
 - A. Install piping in as short and direct arrangement as possible to minimize pressure drop.
 - B. Install piping for minimum number of joints using as few elbows and other fittings as possible to minimize pressure drop.
 - C. Use fittings for all changes in direction and all branch connections.
 - D. Install dielectric unions to join dissimilar metals.
 - E. Install exposed piping at right angles or parallel to building walls. Diagonal runs are not permitted, unless expressly indicated.
 - F. Install piping free of sags or bends and with all ample space between piping to permit proper insulation applications.

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- G. Locate groups of pipe parallel to each other, spaced to permit applying insulation and servicing of valves.
 - H. Install fuel piping with adequate sloping to allow gravity fuel draining towards the nearest fuel tank.
 - I. Secondary Piping (Double Wall Piping Installations): Secondary containment pipe shall be positioned over primary pipe prior to bonding. The secondary piping shall be assembled from components that can be disassembled and re-assembled for servicing of the primary pipe. The secondary pipe diameter shall allow for installation of the required spacers (in place of the primary piping insulation). After testing the primary pipe the containment fittings shall be assembled. The containment system shall then be tested for leaks.
- 6.22 Cleaning and Pretreatment: Cleaning of piping shall be performed in the presence of a building representative.
- 6.23 Check each system following flushing to ensure cleaning medium has been removed from each system and test to ensure that there are no contaminants remaining.
- 6.24 Equipment Start-up and Testing: Upon completion of the installation, Contractor shall ensure that all equipment and systems are tested and adjusted under field operating conditions to demonstrate its compliance with specification requirements.
- 6.25 Should any part of the equipment or system fail to meet the contract requirements, this Contractor shall adjust, repair, or replace all defective or inoperative parts and again conduct the complete start-up test.
- 6.26 Submit system start up sheets and test results to the Owner and Engineer.
- 6.27 Performance Tests and Commissioning: Commissioning is more detailed than equipment start-up testing and shall be performed on this project to demonstrate to the commissioning authority (CxA) a complete and successful working installation in all operational modes as outlined in the sequence of operations. This Contractor shall:
- A. Attend all pre-commissioning and any subsequent commissioning meetings with associated sub-contractors and manufacturer's representatives that are required to complete the commissioning of the equipment and systems provided.

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- B. Review the commissioning plan typically prepared and issued by the commissioning authority.
 - C. Complete pre-startup and startup on all installed equipment prior to all commissioning activities.
 - D. Complete and submit a pre-functional checklist distributed by the commissioning authority for each piece of equipment and system to be commissioned. Any issues encountered during start-up should be listed in the comment section.
 - E. Perform functional performance testing outlined in the commissioning plan.
 - F. Work closely with the commissioning authority in identifying all operating, maintenance, failure mods that must be demonstrated as part of the commissioning process.
 - G. Coordinate, schedule, and complete commissioning tasks with the commissioning authority.
 - H. Be responsible for all costs for testing, including re-testing due to deficiencies/non-compliance with the specifications. Re-testing costs shall be the responsibility of the Contractor and shall not constitute justification for additional costs to the Owner.
 - I. Include overtime labor as needed for testing.
 - J. Responsible to supply and connect all testing equipment required for any part of the commissioning process (i.e. load banks, cables, infrared scanning, temporary cooling means, testing materials and chemicals, etc.)
 - K. Submit manufacturer acceptance testing documentation (startup and manual documents) to the commissioning authority.
- 6.28 Functional Performance Testing:
- A. Start-up of systems and components shall be performed by Contractor and manufacturer technicians as applicable prior to functional performance testing (FPT) in the presence of the commissioning authority. All power, safeties, and control interlocks shall be made operational. Pre-test verification by the Contractor of components and systems is mandatory to verify operation beforehand and avoid last minute corrective work or

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repeat testing. Submission of pre-function checklists shall communicate that such process has occurred.

- B. Once pre-function checklists have been submitted to and reviewed by the commissioning authority, functional testing can be scheduled by the commissioning authority.
- C. The commissioning authority must be kept informed of the construction schedule and given two (2) weeks' notice of the anticipated functional testing timeframe window.
- D. Functional testing should follow the systems testing and balancing process.
- E. Performance test procedures are intended to demonstrate and record the performances of equipment and systems under safety and operational scenarios as applicable including:
 - 1. Response to safeties in manual and automatic mode
 - 2. Signals to fire alarm, security, and user alarm panels
 - 3. Sequence of operation, step by step
 - 4. Interlock with other pieces of equipment (valves, fuel leak detectors, etc.)
 - 5. Control system response and annunciation of sensor/monitor points.
- F. The functional testing procedures are executed by the Contractor, under the direction of, and recorded by the commissioning authority. The Contractor shall provide a field technician and a representative from the automatic controls contractor to operate equipment and confirm responses in the presence of the commissioning authority and Owner's appointed representative.
- G. Any non-compliance items found shall be listed in a commissioning issues log prepared by the commissioning authority. Contractor shall ensure that corrective action of listed deficiencies is implemented and shall respond upon completion of such to the commissioning authority via the provided areas in the commissioning issues log.
- H. Items of non-compliance in material, installation, or setup are corrected at the Contractor's expense.
- I. Once the Contractor indicates that all deficiencies have been addressed, the systems shall be retested.

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- 6.29 Systems to be Commissioned:
- A. Fuel day tank (DT-1) with fuel transfer pump module
 - B. Exhaust fan (EF-1) with associated OA intake dampers (D-1 for SAL-1, SAL-2)
 - C. Generator
- 6.30 Electrical Work: Contractor shall be responsible for power wiring under a separate division of contract work. Automatic temperature, safety, and interlocking controls for motors, motor starters, and other electrical apparatus and devices shall be provided during the mechanical phase. Control wiring shall include but not be limited to all 12-, 24-, and 120-volt wiring.
- 6.31 Controls Wiring: Mechanical contractor shall coordinate all control and interlock wiring including conduits, with the electrical contractor's installation. All work shall be in compliance with all applicable codes. Submit point to point wiring diagram and all controls components for review and approval, including all switches, relays, thermostats, control panels, safeties, transformers, controllers, instrumentation, and programming and all devices for a full operational system. This Contractor shall verify proper system operation.
- 6.32 Provide all control, power, and interlock wiring including conduits and install per National Electric Code. Submit terminal to terminal wiring diagram, sequence of operation, and cuts of all components for approval. Provide all relays, switches, dampers and actuators, pilot positioners, thermostats, panels, limit safeties, transformers, time clocks, control valves, and other devices to accomplish the desired sequence of operation.
- 6.33 All temperature control systems and components are to be fully modulating type, except where noted otherwise.
- 6.34 All controls shall be the product of one manufacturer. All automatic control valves and damper operators shall be manufactured by the temperature control manufacturer.
- 6.35 The manufacturer of the automatic control equipment shall submit the following for approval: A schematic diagram of operation and range of the controls for all cycles, provide terminal point to terminal point electrical wiring diagrams for approval, a complete description of the automatic operation of each system where the description includes the duty of each thermostat, valve, switch, etc., incorporated in the control system with a schedule and illustration of all control instruments and equipment including control panels and devices for each system.

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- 6.36 Specific wiring diagrams of factory installed equipment wiring shall also be submitted for approval and furnished to the electrical Contractor for installation requirements and other uses.
- 6.37 Contractor shall maintain all existing control connections for starters to be reused. Contractor shall coordinate existing conditions and provide all contacts and relays required for existing starters to be replaced with new.

7.0 SEQUENCE OF OPERATIONS

- 7.1 The intent is to create an autonomous fuel supply system to the new back-up power generator which can operate without direct human involvement. The human operators shall have capability to monitor system's operation from a remote location. Sequence of operation shall be in accordance with but not limited to the following:
 - 7.2 Day Tank (DT-1):
 - A. The day tank fuel level controls shall be energized and maintain minimum 50% (adj) fuel level inside the tank at all times.
 - B. The day tank fuel pumps shall be energized and ready to run at all times. The power supply system powering the day tank controls and pumps shall automatically transfer to the generator power upon generator's start. The pump's power shall automatically transfer back to the network power when generator stops.
 - C. Upon depleting fuel level to 50% (adj.) of tank capacity, the day tank controls, based on high level float switch signal, shall activate one (1) supply fuel oil pump to transfer additional fuel from the main fuel storage tank (ST-1).
 - D. Upon reaching fuel level of 90% (adj.) of tank capacity, the day tank controls, based on high level float switch signal, shall stop the fuel oil supply pump operation.
 - E. The two (2) fuel supply pumps shall operate in lead-lag setting. Upon sensing fall of day tank fuel level below 50% (adj.), the day tank controls shall display a "lead pump failure" alarm and the "lag" supply pump shall activate and maintain operation until the fuel level rises to 70% (adj.) of day tank capacity. The controls shall rotate pump's lead-lag function periodically to ensure uniform pump usage.
 - E. Upon activation of "overflow" alarm, the fuel return pump shall activate and transfer fuel out of the day tank to main storage tank until the day

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tank fuel level reaches 70% (adj.) level. Upon reaching the fuel level setpoint, the fuel return pump shall stop.

- F. When fuel temperature inside tank reaches 140°F (adj.), the day tank controls shall activate one (1) supply and one (1) return fuel pump to cycle fuel between day tank and the storage tank (ST-1) until the fuel temperature falls to acceptable level (120°F, adj.). Upon further temperature rise to 145°F (adj.), despite fuel cycling, the fuel cooler fan shall activate. Both pumps and the fuel cooler fan shall stop upon reaching the desired fuel temperature setpoint.

7.3 Generator Outdoor Air Intake Dampers (D-1)

- A. The OA intake dampers (D-1, associated with SAL-1) shall energize and open upon generator activation. The OA intake dampers shall close when generator is powered down. Each damper actuator shall be normally open (N.O.) type, held closed when generator is not running. Whenever power is applied, the damper actuators shall close and remain in closed position. Whenever power is removed, the actuators shall open under return spring power and remain in closed position. Whenever power is removed, the actuators shall open under return spring power and remain in open position until power supply is restored.

7.4 Cooling Exhaust Fan (EF-1)

- B. The exhaust fan EF-1 system shall be engaged and ready at all times. When the space temperature exceeds the set point of 85°F (adj.) based on space thermostat readings, one of the outdoor air dampers (D-1), located furthest away from the exhaust fan, shall open and the exhaust fan (EF-1) shall run. The fan shall shut-off and the OA damper shall close when the space temperature falls below the 85°F (adj.) setpoint.

7.5 Electric Space Heaters (EH-1, EH-2): The electric heaters (EH-1, EH-2) system shall be engaged and ready to operate at all times. When the space temperature falls below the setpoint at 55°F (adj.) the space heater shall activate. The heater shall shut off when the space temperature reaches 60°F (adj.) setpoint.

7.6 Fuel Oil Water Separator Filter Set: Fuel oil water separator filter set shall be installed following generator engine manufacturer's recommendations. The filter set shall be designed to allow filter replacement while the engine is running.

7.7 Add/Alternate: Main Tank (ST-1) Fuel Level Monitoring System: Fuel level sensor shall monitor main fuel storage tank (ST-1) capacity at all times and display current fuel level via a digital tank gauge system. When the tank reaches 25% (adj) capacity, the system shall generate a "fuel low level" alarm. When the

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tank reaches 95% (adj) capacity, the system shall generate an “overfill” alarm. When the system detects high fuel level loss in tank idle condition (when generator is not running), the system shall generate “fuel loss” alarm. The system shall also have ability to verify fuel delivery capacity and log the actual fuel quantity delivered to the

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**SECTION 02200
ASBESTOS ABATEMENT PROCEDURES**

1.0 GENERAL

- 1.1 This specification covers the proper and legal removal and disposal of asbestos containing materials (ACM) caulking from select locations of the Pump House Generator Room at the Meadowlands Sports Complex, East Rutherford, New Jersey. The abatement activities shall comply with all aspects of the contract documents and Federal, State and local requirements.
- 1.2 Whenever there is a conflict or overlap within these specifications and between applicable codes and regulations, the most stringent provision shall apply.
- 1.3 The Contractor shall be responsible for obtaining all necessary or required permits from the Federal, State and local agencies having jurisdiction over this asbestos abatement project. Failure on behalf of the Contractor to obtain these permits shall not result in any extension for the timely results of completion of the work set forth in the Contract. The Contractor shall be responsible and shall be required to pay any administrative penalties imposed on the owner for actions taken or lack thereof by the Contractor.
- 1.4 Upon completion of asbestos removal, the Contractor shall provide a completed, signed and notarized statement stating that all known and identified asbestos-containing materials (ACM) included in the scope of work were properly removed and disposed in accordance with applicable Federal, State, and Local rules and regulations.
- 1.5 Contractors submitting bid for this work shall attend a pre-bid meeting and site walk-through to be scheduled by the Owner, and familiarize them with the work in its entirety. The Contractor's pre-meeting attendance and bid submission affirms his/her acceptance of the work, site and building conditions as-is.
- 1.6 The contractor shall be responsible to provide all temporary utility connections and hook-ups as well as obtaining permits and paying all fees for making such services available for his work as is necessary.
- 1.7 All Contractor personnel involved with asbestos removal work must be thoroughly familiar with the applicable Federal and State regulations governing asbestos removal work.
- 1.8 All abatement work activities related to the louver caulk must be performed from building exteriors. Critical barriers shall be installed on the inside before initiating louver caulk removal from the exterior.

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- 1.9 The Supervisor and Asbestos Abatement workers shall be accredited in accordance with EPA regulation 40 CFR Part 763, New Jersey Departments of Health (NJDOH), and New Jersey Department of Labor (NJDOL) requirements.
- 1.10 All Personnel Handling Hazardous Waste shall maintain Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) training/certification.
- 1.11 Project Name "Meadowlands Sports Complex" must be included on all hazardous waste manifests.
- 1.12 Copies of Asbestos Waste Manifests must be included with the Contractor's application for payment in order to receive payment approval.

2.0 REFERENCE STANDARDS AND NOTICES

- 2.1 Except to the extent that more explicit or more stringent requirements are written directly into these Specifications, all applicable codes, regulations, and standards have the same force and effect (and are made a part of these specifications by reference) as if copied directly into these Specifications, or as if published copies are bound herewith. The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State, local and city regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable Federal, State, and local regulations. The Contractor shall hold the Owner, Architect, and Owner's Engineer harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.

2.2 Federal Regulations:

- 1. 29 CFR 1910.1001, "Asbestos" (OSHA)
- 2. 29 CFR 1910.1200, "Hazard Communication" (OSHA)
- 3. 29 CFR 1910.134, "Respiratory Protection" (OSHA)
- 4. 29 CFR 1910.145, "Specification for Accident Prevention Signs and Tags" (OSHA)
- 5. 29 CFR 1926, "Construction Industry" (OSHA)
- 6. 29 CFR 1926.1101, "Asbestos, Tremolite, Anthophyllite, and Actinolite" (OSHA)
- 7. 29 CFR 1926.500 "Guardrails, Handrails and Covers" (OSHA)
- 8. 40 CFR 61, Subpart A, "General Provisions" (EPA)
- 9. 40 CFR 61, Subpart M, "National Emission Standard for Asbestos" (EPA)

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10. 49 CFR 171-172, Transportation Standards (DOT)
- 2.3 New Jersey Regulations: State requirements which govern asbestos abatement work and hauling and disposal of asbestos waste materials include but are not necessarily limited to the following:
1. N.J.A.C. 7:26
 2. N.J.A.C. 12:120
 3. N.J.A.C. 8:60
- 2.4 Local Requirements: Local agencies which may govern or have certain requirements regarding asbestos abatement work or hauling and disposal of asbestos waste materials include but are not necessarily limited to the following:
1. Building Department
 2. Health Department
 3. Fire Department
- 2.5 Standards and Guidance Documents: Standards and guidance documents which apply to asbestos abatement work or hauling and disposal of asbestos waste material include but are not necessarily limited to the following:
1. American National Standards Institute (ANSI)
 - a.) Fundamentals Governing the Design and Operation of Local Exhaust Systems Publication Z9.2-79
 - b.) American National Standard Institute (ANSI) Z88.2-80, Practices for Respiratory Protection
 2. American Society for Testing and Materials (ASTM)
 - a.) Safety and Health Requirements Relating to Occupational Exposure to Asbestos E 849-82.
 3. Underwriters Laboratories, Inc. (UL)
Standards: 586 (High Efficiency Particulate Air filter units).
- 2.6 Notices:
1. The Contractor shall send by certified mail, all required notifications to all applicable governing agencies as required by Federal, State, and local regulations. Failure on behalf of the Contractor to file notifications as required shall not result in any extension of the completion date set forth in the Contract. Also, at least 7 days prior to initiation of abatement work, required signs must be posted.

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2. U.S. Environmental Protection Agency: Send Written Notification as required by USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) Asbestos Regulations (40 CFR 61, Subpart M) to the regional Asbestos NESHAP. Contact at least 10 working days prior to beginning any work on asbestos-containing materials. Send notification to the following address:
- a.) USEPA Region II
Asbestos NESHAPS Contact Air and Waste Management Division
290 Broadway
New York, New York 10007
 - b.) The following information shall be included in notification to the NESHAPS contact, as a minimum:
 - Name, address, and telephone number of Owner or operator;
 - Name, address, telephone number, and asbestos license number of the asbestos abatement contractor;
 - Description of the facility being demolished or renovated, including the size, age, and prior use of the facility;
 - Estimate of the approximate amount of friable asbestos material present in the facility in terms of linear feet of pipe, and surface area on other facility components. For facilities in which the amount of friable asbestos materials is less than 80 linear meters (260 linear feet) on pipes and less than 15 square meters (160 square feet) on other facility components, explain techniques of estimation;
 - Location of the facility being demolished or renovated;
 - Scheduled starting and completion dates of demolition or renovation;
 - Nature of planned demolition and method(s) to be used;
 - Procedures to be used to comply with the requirements of USEPA National Emission Standards for Hazardous Air Pollutants (NESHAPS) Asbestos Regulations (40 CFR 61 Subpart M);
 - Name and location of the waste disposal site where the friable asbestos waste material will be deposited;
 - Name and license number of the waste hauler;
 - The nature of asbestos abatement;
 - Amount of asbestos-containing materials to be removed;
 - Update the notification whenever the amount changes by at least 20 percent; and,
 - Re-notify EPA if start date changes from originally given date.

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3. State and Local Agencies: Send notification at least 10 working days prior to beginning any abatement work to NJDOL, NJDOH, and NJDEP. Also obtain abatement permit from the Local Building Department.
4. The Contractor shall post all notices required by applicable Federal, State and local regulations. Maintain a copy of applicable Federal, State and local regulations and standards at the site.
5. The Contractor shall notify other entities at the job site of the nature of the asbestos abatement activities, location of asbestos-containing materials, requirements relative to asbestos set forth in these specifications, and applicable regulations. All notification shall first be cleared through the Owner's Representative.
6. The Contractor shall notify emergency service agencies including fire, ambulance, police, or other agency that may service the abatement work site in case of an emergency. Notification is to include methods of entering work area, emergency entry and exit locations, modifications to fire notification or fire fighting equipment, and other information needed by agencies providing emergency services. The Contractor shall clearly post telephone numbers and locations of emergency services including but not limited to fire, ambulance, doctor, hospital, police, and power and telephone Companies.

3.0 SCOPE OF WORK

- 3.1 Work includes filing and permitting all necessary applications, notifications, requirements and fees; insurance; necessary design services; providing skilled, licensed and certified labor; materials; and equipment necessary for proper preparation, handling, removal and legal disposal of asbestos-containing caulking.
- 3.2 The estimated quantity of ACM to be removed from the buildings are listed below:

TABLE 1
ESTIMATED QUANTITY OF ACM TO BE REMOVED

Material	Survey Results	Estimated Quantity to be Removed		ACM Removal Method
PUMP HOUSE - GENERATOR ROOM				
Exterior louver caulk	ACM	180	LF	Non-friable removal procedures

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4.0 RELATED DOCUMENTS AND SECTIONS

4.1 The following Contract Drawings specifically apply to the Work under this Section:

<u>Drawing Title</u>	<u>Drawing No.</u>	<u>Date</u>
Asbestos Containing Materials (ACM) Identification Plan	H-101.00	5/11/2022

5.0 SUBMITTALS

5.1 The Contractor shall submit copies of the following Pre-Work submittals:

1. Valid Contractor's Asbestos Removal license issued by New Jersey Department of Labor (NJ-DOL).
2. Certificate of insurance covering work of this Contract Endorsement and waiver of subrogation as required by The Meadowlands Sports Complex.
3. List and copies of all permits, variances, licenses, and notifications (certified receipts) which are necessary to be applied for by the Contractor, obtained, and posted.
4. Name, address, applicable permits and certificate of insurance for the asbestos waste hauling company.
5. Name, location, and applicable licenses of landfill for disposal of asbestos-containing material and asbestos contaminated waste.
6. Name, experience of supervisors, and copies of valid Asbestos Supervisor permits issued by the NJDOL.
7. Proof that all on-site employees have passed appropriate medical examinations as required by OSHA regulations.
8. Certification that each on-site employee has been properly fit tested with a NIOSH approved respirator.
9. Contractor's Abatement Work Plan: Provide plans that clearly indicate the following:
 - a. Location and types of decontamination enclosures.
 - b. Type of abatement activity/technique for each Work Area/Containment.
 - c. Waste transport routes through the building to the waste storage container.
 - d. Locations of emergency exits, fire exits, and fire extinguishers.

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- e. Source of access (Scaffolding, boom lift, etc.).
- 10. Summary of the Contractor's workforce by disciplines: Include a notarized statement signed by the Contractor documenting that all proposed workers, by name, have received all required medical examinations and have been properly trained and certified in asbestos removal work, respirator use, in accordance with EPA and OSHA standards for asbestos removal.

All of the above listed items shall be submitted within 10 days of contract award.

- 5.2 On-Site Submittals/Posting: The following submittals, documentation, and postings shall be maintained on-site by the Contractor during abatement activities at a location approved by the Owner:

- 1. Contractor's License
- 2. NJDOL Asbestos Handler certification cards for each person employed in the removal, handling, or disturbance of asbestos.
- 3. Daily OSHA personal air monitoring results.
- 4. Certification for the laboratory that will be analyzing the OSHA personnel air samples.
- 5. Waste Transporter's Permit.
- 6. Project documents (inspection reports, specifications and drawings.)
- 7. Notifications (US-EPA, NJDOL).
- 8. Asbestos Abatement Permit from Local Building Department (If applicable)
- 9. Applicable Federal, State and Local regulations.
- 10. Safety Data Sheets (SDS) of supplies/chemicals used on the Project.
- 11. Approved Contractor's Abatement Work Plan
- 12. List of emergency telephone numbers.
- 13. Daily Project Log.
- 14. Workers Acknowledgement Certification

Ensure that a copy of the most up-to-date notifications and Variances petition is maintained on-site.

- 5.3 Project Close-out Submittals: Within 30 days of the completion of each abatement phase, the Contractor shall submit two copies of the documents listed below. One set of the documents shall be transmitted to the Architect and one set to the Owner for review and approval prior to the Contractor's final payment.

- 1. Original of all waste disposal manifests and disposal logs.
- 2. OSHA compliance air monitoring records conducted during the Work.
- 3. Daily progress log, including the entry/exit log.

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4. Provide Contractor's Acknowledgement Statement indicating that employees involved with the abatement: a) have received the medical examinations required by OSHA 29 CFR 1926.1101; b) have been fit tested specifically for respirators used on the Project; and c) have received training as required by OSHA 29 CFR 1926.1101 in the proper handling of asbestos containing materials, including the health implications and risks involved, as well as the use and limitations of the respiratory equipment to be used. The Statement shall be signed by the Contractor and notarized.

6.0 INDEMNIFICATION

- 6.1 The Contractor and its sub-contractors shall indemnify and hold harmless the Owner, Owner's Representative, Architect, Engineer, and their directors, officers, agents, employees from and against all claims, damages, losses, liabilities and expenses, out of or resulting from the performance of the work specified herein.
- 6.2 Nothing in these specifications shall be inferred to transfer the Contractor's responsibility for a thorough and safe job to the Owner, Owner's Engineer or their representatives.

7.0 PRODUCTS

- 7.1 All products, equipment, and material used by the Contractor shall be of sufficient size, configuration, and quality to perform the tasks required.
- 7.2 Provide disposable protective whole body clothing, head coverings, gloves and foot coverings for the project personnel. Provide disposable plastic or rubber gloves to protect hands. Cloth gloves may be worn inside the plastic or rubber for comfort, but shall not be used alone. Make sleeves secure at the wrists and make foot coverings secure at the ankles by the use of tape, or provide disposable coverings with elastic wrists or tops.
- 7.3 Provide sufficient quantities of protective clothing to assure a minimum of four (4) complete disposable outfits per day for each individual performing abatement Work.
- 7.4 Eye protection and hard hats shall be provided and made available for all personnel entering any Work Area.
- 7.5 Authorized visitors shall be provided with suitable protective clothing, headgear, eye protection, and footwear whenever they enter the Work Area.

8.0 WORKER AND WASTE DECONTAMINATION SYSTEM FOR ASBESTOS ABATEMENT

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8.1 The following requirements shall be followed for full containment decontamination unit:

1. All asbestos abatement projects shall be equipped with decontamination facilities consisting of: a clean room, a shower room, and an equipment room. This system shall be located adjacent to the work area.
 - a. Clean Room: In this room, persons remove and leave all street clothes and put on clean disposable coveralls. Approved respiratory protection equipment is stored in this area. The floor of the clean room must be kept dry at all times. At the end of each shift, the room must be cleaned using wet rags. Also, a lockable door may be installed. No asbestos-containing materials are allowed in this room. The clean room shall be equipped with suitable hooks, lockers, shelves, etc. for workers to store personal articles and clothing. THIS IS NOT A CONTAMINATED AREA.
 - b. Shower Room: Provide a completely watertight operational shower to be used by cleanly dressed workers heading for the Work area from the clean room or for showering workers headed out of the Work Area after dressing in the Equipment Room. Shower must be constructed so that water leakage is minimized. The shower shall have one shower per eight full shift abatement person, calculated on the basis of the largest shift. Any leaking water must be cleaned immediately. Showers must be equipped with hot and cold running water adjustable at the tap, soap and sufficient disposable towels for the number of workers at the job site. Arrange water shut off and drain pump operation controls, so that a single individual can shower without assistance from either inside or outside the Work Area. THIS IS A CONTAMINATED AREA.
 - c. Pump wastewater into a polyethylene lined 55-gallon drum located in the Work Area to be added to the asbestos waste. If the water is allowed by the city and work treatment workers to be pumped into a drain, provide 20 micron and 5 micron waste water filters in line to drain. Change filters at a minimum of once a day. Locate filters inside the shower unit, so that the shower pan catches the water lost during filter change. A permit shall be obtained from the local department if the filtered water is scheduled to be disposed into the City sewer.
 - d. Equipment Room: Work equipment, footwear, and all other contaminated work clothing are to be left here upon exiting Work Area. A walk-off pan filled with water shall be located in the work

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area just outside the equipment room for workers to clean foot coverings while exiting the work area. This is a change and transit area for workers. Provide a drop cloth layer of sheet plastic on the floor of the Equipment Room for every shift change. Roll drop cloth layer in upon itself at the end of each shift and dispose of as contaminated waste. THIS IS A CONTAMINATED AREA.

- e. Each room shall be separated from the other and from the work area by airlocks such as will prevent the free passage of air or asbestos fibers and shall be accessible through doorways protected with three (3) overlapping 6 mil polyethylene sheets which shall be weighed, so as to fall into place when people pass through the area. The shower room shall be contiguous to the clean room and equipment room. All personnel entering or leaving the work area shall pass through the shower room. The number of showers provided shall satisfy the requirements of OSHA 29 CFR 1910.141(de)(3)(11). Hot and cold water shall be supplied to the showers. The equipment room (dirty room) shall be situated between the shower room and the work area and separated from both by means of suitable barriers or overlapping flaps such as will prevent the free passage of air or asbestos fibers.
 - f. Decontamination chamber doors shall be of sufficient height and width to enable replacement of equipment which may fall and to safely stretch or carry an injured worker from the site without destruction of the chamber or unnecessary risk to the integrity of the work area. Such doors must be at least four (4) feet wide, and the distance between sets of doors must be at least four (4) feet.
- 2. No person or equipment shall leave the asbestos abatement project work area unless first decontaminated by showering, wet washing, or HEPA vacuuming to remove all asbestos debris. No asbestos contaminated materials or persons shall enter the clean room.
 - 3. In specific situations where the asbestos contractor determines that it is not feasible to establish a contiguous decontamination system at a work site, the asbestos contractor shall utilize a remote decontamination system. Such systems must be operated in conformance with 29 CFR 1926.1101.
- 8.2 Waste/Equipment Decontamination Enclosure System: This system shall be located adjacent to the work area. The equipment decontamination enclosure system, consisting of two totally enclosed spaces, shall be constructed as follows:

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1. Equipment Washroom: An equipment washroom shall have two air locks: one adjacent to the work area and one common air lock which separates it from the holding area. The washroom shall have facilities for washing materials containers and equipment. Gross removal of dust and debris from contaminated materials containers and equipment shall be accomplished in the work area, prior to moving to the washroom.
2. Holding Area: A holding area shall share a common air lock with the equipment washroom and shall have a curtained doorway to outside areas. A hinged, lockable door shall be placed at the holding area entrance to prevent unauthorized access into the work area.

9.0 ABATEMENT PROCEDURES

9.1 The following procedures shall be followed while performing abatement of asbestos-containing louver caulking:

1. The asbestos abatement contractor shall inspect and verify all ACM planned for removal from the subject building as described in Scope of Work.
2. No asbestos abatement work including preparation shall be performed or continued without having proper notification and a NJDOL certified asbestos supervisor at the work site.
3. Workers performing the work must receive HAZWOPER and OSHA awareness training, and work practices training related to asbestos disturbances and handling and must have a valid NJDOL asbestos worker license.
4. Provide and display danger signs at every entrance to the work areas in clearly visible locations indicating that asbestos removal work is being conducted and unauthorized and not protected persons should not enter.

Provide danger signs in vertical format conforming to 29 CFR 1926.1101, minimum 20" x 14" displaying the following legend:

**DANGER
ASBESTOS
CANCER AND LUNG HAZARD
RESPIRATORS AND PROTECTIVE CLOTHINGS
ARE REQUIRED IN THIS AREA**

Signs shall be posted which meet the specifications set forth in 29 CFR 1926.1101 at all approaches to the work area. Signs shall be posted a

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sufficient distance from the work area to permit a person to read the sign and take precautionary measures to avoid exposure to asbestos.

5. A restricted area shall be established using warning tape extending at least 25 feet from the affected areas of the building or to the nearest vertical obstruction or the curb. Provide 3" wide red barrier tape printed with black lettered, "DANGER ASBESTOS REMOVAL". Locate barrier tape across all corridors, entrances and access routes to asbestos Work Area. Install tape 3' to 4' above the ground level.
6. The restricted area may be entered only by certified workers or authorized visitors.
7. All openings to the building or structure's interior which are within 25 feet of the affected ACM shall be closed and made airtight.
8. Prior to initiating louver caulk removal activities, the interior of the louver opening shall be covered with a layer of fire retardant 6-mil plastic sheeting sealed with tape (masking tape is preferred to avoid damage to interior painted surfaces). Do not use spray glue to install the plastic sheeting.
9. Contractor shall install and utilize fixed scaffolding or a man lift to facilitate removal of caulking materials associated with louver units from outside the building. Comply with all applicable OSHA fall protection requirements. All removal activities must be performed from building exteriors.
10. A remote worker and waste decontamination unit shall be constructed outside the work area, and attached to common spaces leading to individual work areas.
11. The worker and waste decontamination unit shall be installed or constructed prior to the commencement of gross removal work.
12. The remote worker decontamination unit shall consist of, at least, a shower room, and a clean room separated from each other by an airlock.
13. In addition to the showerheads, the shower room shall be provided with a flexible hose for equipment and waste decontamination.
14. The decontamination system shall be in place for the entire duration of the abatement activities.

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15. All asbestos handlers shall wear two disposable suits, including gloves, hood and footwear, and appropriate respiratory equipment, after removing street clothes in the clean room.
16. The exterior ground level within 10 feet of the affected ACM shall be covered with a layer of 6-mil plastic sheeting.
17. Do not conduct work on the exterior if wind speeds are greater than 20 miles per hour. Work must stop and clean up must occur before rain begins.
18. Each abatement team shall be equipped with appropriate tools, rags, a portable supply of amended water, and a HEPA vacuum. After the ACM caulking material is adequately wetted, it shall be striped using hand tools, with the ACM caulking material being directly bagged or dropped into a flexible catch basin and promptly bagged. The stripped joints shall then be HEPA vacuumed, and then wet-wiped, to remove any loose debris still in place. All exposed joints shall be coated with an encapsulant.
19. Abatement of asbestos-containing materials shall be done by wet methods only.
20. ACM shall be sprayed with amended water in sufficient frequency and quantity for enhanced penetration. Sufficient time shall be allowed for penetration to occur prior to removal action or other disturbance-taking place. Dry removal of asbestos materials is prohibited.
21. Do not allow bags of ACM to be dropped or thrown to the ground. For asbestos materials, dropped distances greater than 10 feet, dust tight, enclosed, inclined chutes must be used.
22. Upon completion of the ACM removal at a location and before moving to the next, the surfaces of the immediate work area shall be rendered free of visible debris. The plastic covering of the platform or flooring shall be carefully bagged, and a new plastic sheet applied, and secured, at the next work area.
23. After the ACM removal and bagging, the bagged waste shall be HEPA-vacuumed then wet cleaned and transferred into the airlock or into the shower room for double bagging, and thereafter the double-bagged waste shall be transferred outside the airlock or outside the clean room for its final transfer for storage in an enclosed waste container.

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10.0 ASBESTOS WASTE DISPOSAL

- 10.1 The Contractor shall package, label, and remove all asbestos waste from the work area and transport to the landfill in accordance with the regulations set forth by the EPA, NJDEP, DOT, and the states through which the waste is being transported and disposed. Packaging shall be accomplished in a manner that minimizes waste volume, but insures waste containers shall not tear or break.
- 10.2 Asbestos wastes may include building materials, insulation, disposable clothing and protective equipment, plastic sheeting and tape, exhaust systems or vacuum filters, contractor equipment, or other materials designated by state or local authorities which have been potentially contaminated with asbestos and have not been fully cleaned.
- 10.3 Waste Container Storage: As a minimum, line the container with two layers of a 6-mil polyethylene sheeting to prevent contamination from damaged or leaking containers. Warning signs shall be posted on the Dumpster in accordance with Sections 29 CFR 1926.1101.
- 10.4 Waste Transportation and Disposal:
1. It is the responsibility of the Contractor to determine and insure that the Contractor and his/her subcontractor are complying with: a) current waste handling regulations; and b) the current regulations for transporting and disposing waste at the ultimate disposal landfill. The Contractor must comply fully with these regulations, and with all U.S. Department of Transportation, State, local, and EPA requirements.
 2. The louver caulk was confirmed to be ACM. All caulk including contaminated waste that is generated during the removal/abatement shall be disposed of at a certified landfill that accepts ACM containing waste.
 3. The Contractor's waste hauler and disposal contractor shall maintain a valid hazardous waste transporter's permit and identification number; and obtain complete, and fully comply with any other local hazardous waste manifesting requirements.
 4. Exercise care before and during transport to ensure that no unauthorized persons have access to the containerized ACW.
 5. Do not transport ACW on open trucks. Treat and dispose of drums that have been contaminated as asbestos-containing waste.

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6. A copy of ACW manifest forms shall be sent to the Owner after each disposal is completed and all required data and signatures have been inserted.
7. The Contractor shall return the original Disposal Certificate (landfill receipt) to the Owner within 10 working days of waste shipment from the site.

11.0 AIR MONITORING

11.1 Personal OSHA Monitoring:

1. The Contractor is solely responsible for performing personal air monitoring as specified by the OSHA 29 CFR 1926.1101 and the OSHA Respiratory Protection Standard 29 CFR 1926.134.
2. A minimum of 20% of all workers in each working category (i.e., gross removal, final clearance, etc.) must be monitored each day of asbestos removal activities.
3. Phase Contrast Microscopy may be used to analyze personal air samples. The Contractor shall arrange and pay for all costs of the testing. Laboratories used shall be currently enrolled in the American Industrial Hygiene Association Proficiency Analytical Testing Program or an equivalent recognized program.

11.2 Post-Abatement Clearance Criteria:

A final clearance visual inspection shall be performed by the Contractor and the environmental consultant retained by the Owner. This final inspection shall include a thorough visual inspection of the work site. All identified ACM shall be removed down to the substrate.

Post abatement air testing will be performed to document airborne fiber concentrations following abatement completion. Post abatement air samples will be analyzed using Transmission Electron Microscopy (TEM) for abatement activities involving greater than 160 square feet. For abatement actions less than 160 sf air samples will be analyzed using Phase Contrast Microscopy (PCM).

Abatement activities will be considered complete if the air test results are equal to or less than 0.010 f/cc by either PCM or less than 70 structures/cm² via TEM analysis.

The Contractor shall also request the Owners Engineer to perform the final clearance inspection upon completion of all abatement activities.

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12.0 POST-PROJECT CLOSE OUT

- 12.1 The Contractor shall provide all required documentation as required by this specification once his/her work is complete and waste disposed of. This should include but not limited to: bound copy of the daily log containing log of daily work activities, waste shipment records, personal air monitoring laboratory reports and chain-of-custody documentation, and project completion certificate. Final payment shall not be made to the Contractor until all required documentation is submitted and verified.

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CONTRACTOR'S ACKNOWLEDGEMENT STATEMENT

Contractor Name: _____

Re: **Abatement of Asbestos Containing Materials**

Project Title: _____

Project Location:

In consideration of the following individuals' employment in connection with the abatement, handling, and disposal of asbestos containing materials at the referenced project, I hereby certify that the employees: a) have received the medical examinations required by OSHA 29 CFR 1926.1101; b) have been fit tested specifically for respirators used on the Project; and c) have received training as required by OSHA 29 CFR 1926.1101 in the proper handling of asbestos containing materials, including the health implications and risks involved, as well as the use and limitations of the respiratory equipment to be used.

Employee Name	Asbestos License Number/Expiration Date

Owner/Officer's Signature: _____

Printed Name: _____

Title: _____

(Notary block here)

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WASTE SHIPMENT RECORD LOG

Facility: _____

Building: _____

Project: _____

Project Number: _____

Asbestos Contractor: _____

Environmental Consultant: _____

Load No.	Hauler		License Plate No.	Size of Container		DATES (Chain of Events)		
						Dptr from Site	Rec'd at Landfill	Manifest Returned
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
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ASBESTOS WASTE SHIPMENT RECORD - See attached instructions

GENERATOR (Retain copy of form)	1. Work site: Name: Mailing Address: City/State/Zip:		<u>Owner's Name</u>		<u>Owner's Telephone #</u>	
	2. Remover's name and address: Name: Mailing Address: City/State/Zip: Asbestos Project Permit #					<u>Remover's Telephone #</u>
	3. Waste Disposal Site (WDS), meaning the facility that will receive the waste: Name: Mailing Address: City/State/Zip: Physical Location:					<u>WDS Telephone #</u>
	4. Name and address of responsible agency: NJ DEP ASBESTOS SECTION 120 SOUTH STOCKTON STREET, TRENTON, NEW JERSEY					
	5. Description of waste:		6. Containers: No. Type		7. Total quantity (sq ft, ln ft, m³, yd³):	
8. Special handling instructions and additional information (provided by generator):					<u>Emergency Telephone #</u>	
9. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name, and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. I declare that the waste is adequately wet and will be transported and disposed of by a DEQ-accredited asbestos project contractor supervisor or project worker.						
<u>Printed/typed name & title</u>		<u>Signature</u>		<u>Month</u> <u>Day</u> <u>Year</u>		
TRANSPORTER (Retain copy of form)	10. Transporter 1 (Acknowledgment of receipt of waste):					
	<u>Printed/typed name & title</u>		<u>Address and telephone #</u>		<u>Month</u> <u>Day</u> <u>Year</u>	
	Signature					
	11. Transporter 2 (Acknowledgment of receipt of waste):					
<u>Printed/typed name & title</u>		<u>Address and telephone #</u>		<u>Month</u> <u>Day</u> <u>Year</u>		
Signature						
DISPOSAL SITE (Retain copy of form & return original to 2 above)	12. Discrepancy indication space:				<u>Rejected:</u> Yes <input type="checkbox"/> No <input type="checkbox"/>	
	<u>Destination</u>					
	13. Waste disposal site owner or operator: Certification of receipt of asbestos waste covered by this manifest except as noted in item 12.					
<u>Printed/typed name & title</u>		<u>Signature</u>		<u>Month</u> <u>Day</u> <u>Year</u>		