SCOPE OF WORK

Generator Upgrade Vocational High School Building No. 25

Marie Katzenbach School for the Deaf West Trenton, Mercer County, N.J.

Project No. E0390-00

STATE OF NEW JERSEY

Honorable Philip D. Murphy, Governor Honorable Sheila Y. Oliver, Lt. Governor

DEPARTMENT OF THE TREASURY

Elizabeth Maher Muoio, Treasurer



DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION

Christopher Chianese, Director

Date: OCTOBER 7, 2021

PROJECT LOCATION: Marie Katzenbach School, Vocational High School Bldg. No. 25

PROJECT NO: E0390-00 DATE: October 7, 2021

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I. OBJECTIVE

The objective of this project is to remove and replace the existing generator and underground storage tank at the Vocational High School Building No. 25 at Marie Katzenbach School for the Deaf.

II. CONSULTANT QUALIFICATIONS

A. CONSULTANT & SUB-CONSULTANT PRE-QUALIFICATIONS

The Consultant shall be a firm pre-qualified with the Division of Property Management & Construction (DPMC) in the following discipline(s):

• P002 Electrical Engineering

The Consultant shall also have in-house capabilities or Sub-Consultants pre-qualified with DPMC in:

- P005 Civil Engineering
- P011 Environmental Engineering
- P037 Asbestos Design
- P038 Asbestos Safety Control Monitoring
- P065 Lead Paint Evaluation

As well as, <u>any and all</u> other Architectural, Engineering and Specialty Disciplines necessary to complete the project as described in this Scope of Work (SOW).

III. PROJECT BUDGET

A. CONSTRUCTION COST ESTIMATE (CCE)

The initial Construction Cost Estimate (CCE) for this project is \$200,000.00

The Consultant shall review this Scope of Work and provide a narrative evaluation and analysis of the accuracy of the proposed project CCE in its technical proposal based on its professional experience and opinion.

B. CURRENT WORKING ESTIMATE (CWE)

The Current Working Estimate (CWE) for this project is \$316,000.00

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The CWE includes the construction cost estimate and all consulting, permitting and administrative fees.

The CWE is the Client Agency's financial budget based on this project Scope of Work and shall not be exceeded during the design and construction phases of the project unless DPMC approves the change in Scope of Work through a Contract amendment.

C. CONSULTANT'S FEES

The construction cost estimate for this project *shall not* be used as a basis for the Consultant's design and construction administration fees. The Consultant's fees shall be based on the information contained in this Scope of Work document and the observations made and/or the additional information received during the pre-proposal meeting.

IV. PROJECT SCHEDULE

A. SCOPE OF WORK DESIGN & CONSTRUCTION SCHEDULE

The following schedule identifies the estimated design and construction phases for this project and the estimated durations.

PROJECT PHASE **ESTIMATED DURATION (Calendar Days)** 1. Site Access Approvals & Schedule Design Kick-off Meeting 14 2. Design Development Phase **50%** (Minimum) 42 Project Team & DPMC Plan/Code Unit Review & Comment 14 3. Final Design Phase 100% 21 14 Project Team & DPMC Plan/Code Unit Review & Approval 4. Final Design Re-Submission to Address Comments 7 14 Project Team & DPMC Plan/Code Unit Review & Approval 5. Permit Application Phase 7 Issue Plan Release 6. Bid Phase 42 7. Award Phase 28 8. Construction Phase 120

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B. CONSULTANT'S PROPOSED DESIGN & CONSTRUCTION SCHEDULE

The Consultant shall submit a project design and construction bar chart schedule with its technical proposal that is similar in format and detail to the schedule depicted in **Exhibit 'A'**. The bar chart schedule developed by the Consultant shall reflect its recommended project phases, phase activities, activity durations.

The Consultant shall estimate the duration of the project Close-Out Phase based on the anticipated time required to complete each deliverable identified in Section XIV of this document entitled "Contract Deliverables - Project Close-Out Phase" and include this information in the bar chart schedule submitted.

A written narrative shall also be included with the technical proposal explaining the schedule submitted and the reasons why and how it can be completed in the time frame proposed by the Consultant.

This schedule and narrative will be reviewed by the Consultant Selection Committee as part of the evaluation process and will be assigned a score commensurate with clarity and comprehensiveness of the submission.

C. CONSULTANT DESIGN SCHEDULE

Based on the Notice to Proceed, Consultant shall update its approved schedule and shall distribute it at the design kickoff meeting. Note that this schedule shall be submitted in both paper format and on compact disk in a format compatible with *Microsoft Project*. This schedule will be binding for the Consultant's activities and will include the start and completion dates for each design activity. The Consultant and Project Team members shall use this schedule to ensure that all design milestone dates are being met for the project. The Consultant shall update the schedule to reflect performance periodically (minimally at each design phase) for the Project Team review and approval. Any recommendations for deviations from the approved design schedule must be explained in detail as to the causes for the deviation(s) and impact to the schedule.

D. BID DOCUMENT CONSTRUCTION SCHEDULE

The Consultant shall include a construction schedule in Division 1 of the specification bid document. This schedule shall contain, at minimum, the major activities and their durations for each trade specified for the project. This schedule shall be in "bar chart" format and will be used by the Contractors as an aid in determining their bid price. It shall reflect special sequencing or phased construction requirements including, but not limited to: special hours for building access, weather restrictions, imposed constraints caused by Client Agency program schedules, security

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needs, lead times for materials and equipment, anticipated delivery dates for critical items, utility interruption and shut-down constraints, and concurrent construction activities of other projects at the site and any other item identified by the Consultant during the design phases of the project.

E. CONTRACTOR CONSTRUCTION PROGRESS SCHEDULE

The Contractor shall be responsible for preparing a coordinated combined progress schedule with the Sub-Contractors after the award of the contract. This schedule shall meet all of the requirements identified in the Consultant's construction schedule. The construction schedule shall be completed in accordance with the latest edition of the Instructions to Bidders and General Conditions and Bulletins that may be issued on the project.

The Consultant must review and analyze this progress schedule and recommend approval/disapproval to the Project Team until a satisfactory version is approved by the Project Team. The Project Team must approve the baseline schedule prior to the start of construction and prior to the Contractor submitting invoices for payment.

The Consultant shall note in Division 1 of the specification that the State will not accept the progress schedule until it meets the project contract requirements and any delays to the start of the construction work will be against the Contractor until the date of acceptance by the State.

The construction progress schedule shall be reviewed, approved, and updated by the Contractor, Consultant, and Project Team members at each regularly scheduled construction job meeting and the Consultant shall note the date and trade(s) responsible for project delays (as applicable).

V. PROJECT SITE LOCATION & TEAM MEMBERS

A. PROJECT SITE ADDRESS

The location of the project site is:

Marie Katzenbach School for the Deaf 320 Sullivan Way, PO Box 535 West Trenton, New Jersey 08625

See Exhibit 'B' for the project site location map.

B. PROJECT TEAM MEMBER DIRECTORY

The following are the names, addresses, and phone numbers of the Project Team members.

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1. **DPMC Representative:**

Name: Cristina Zozzaro, Project Design Manager

Address: Division of Property Management & Construction

20 West State Street, 3rd Floor

Trenton, NJ 08608-1206

Phone No: (609) 777 – 4273

E-Mail No: Cristina.Zozzaro@treas.nj.gov

2. Client Agency Representative:

Name: <u>Joseph Vitelli, Project Manager</u>

Address: Department of Education

100 Riverview Plaza, PO Box 500

Trenton, NJ 08625

Phone No: <u>(609)</u> 376-3866

E-Mail No: Joseph.Vitelli@doe.nj.gov

VI. PROJECT DEFINITION

A. BACKGROUND

The Marie Katzenbach School for the Deaf (MKSD) was established in 1883 and is the largest school for the deaf in the State of New Jersey. It serves the needs of over 100 deaf students and is the only residential school for the deaf in the State. The 118-acre campus contains 34 buildings that are used as utility, storage, administrative, health, educational, and dormitory facilities. The majority of buildings are in generally good condition despite their age.

B. FUNCTIONAL DESCRIPTION

1. Vocational High School:

The Vocational High School, also known as Building No. 25, was built in 1977, with a total building area of 65,250 square feet, is a two-story multi-level concrete and glass structure with a flat roof, built into a sloping site containing classrooms, culinary kitchen, vocational shops, and related offices.

2. Existing Generator:

The existing generator is a KOHLER 30KW model that is powered by diesel fuel. It currently backs up hall lighting. The existing generator, currently located in the mechanical room in the

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basement of the Vocational High School, is failing. The water in the fuel tank is preventing the existing generator from working properly. The facility desires an upgrade to the existing system.

3. Existing Underground Storage Tank:

The existing underground diesel fuel storage tank has a hole and is taking in water. The facility desires the consultant to remove and properly dispose of the existing UST. For photos of the existing UST, see **Exhibit 'D'**.

VII. CONSULTANT DESIGN RESPONSIBILITIES

A. GENERATOR UPGRADE GENERAL DESIGN CRITERIA

The Consultant shall provide Design, Construction Administration, Permitting and Bid/Award services to replace the existing diesel fueled generator and remove the existing underground storage tank. The design shall follow all codes and standards applicable.

The Consultant shall determine the new generator's classification, power, size and fuel type. A new stand-by generator shall be natural gas powered, as desired by the client agency and by the facility. An emergency generator can only be natural gas powered, if there is (will be) an onsite gas fuel storage system automatically transferring natural gas allowing the generator to operate for a minimum of two (2) hours at full load as per requirements listed in NEC articles 700.12(b) & 701.12(b). Otherwise, an emergency generator shall be powered by diesel fuel, a new above ground diesel fuel storage tank will be then required, and its design and specifications shall be part of this scope of work.

The Contractor shall follow the facility's access regulations and shall arrange for all persons entering the facility to have a (*criminal/standard*) background check as required by the State of NJ Department of Education. Cost of background checks shall be borne by the Contractor. Background checks shall be through IdentoGO (https:nj.ibfingerprint.com)."

B. GENERATOR REPLACEMENT FUNCTIONAL DESIGN CRITERIA

The Consultant shall meet and coordinate with NJ Department of Education Staff and NJ MKSD Staff to outline all functional requirements necessary for the design to upgrade the generator system. The Consultant shall document interviews with the Client Agency Staff and with the MKSD Staff to identify their requirements and needs.

The design requirements of this project shall include but not be limited to the following items identified below. These items are meant to be used as a design guide; however, it shall be the responsibility of the Consultant to determine the final design criteria to make a complete working

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installation based on their experience with projects similar in size and scope to this one, and the equipment manufacturer's requirements.

1. Evaluation:

The Consultant shall investigate the existing conditions of the site and confirm the size, condition, ratings and arrangement of the existing electrical equipment and power distribution system.

Evaluate the existing emergency electrical distribution system and normal power interface. Check the adequacy of the existing equipment with proposed new equipment, if required by the facility and by the client agency, and make the necessary design changes to the electrical system to achieve the required connections for the capacity of the new generator unit.

2. Equipment Removal:

The Consultant shall provide a demolition plan, as necessary, specifying the existing equipment to be removed and disposed of by the contractor. Provide a phasing plan for equipment removal and provide for temporary backup generator power as necessary.

3. Underground Tank Removal, Closure & Disposal Procedure:

The Consultant shall prepare a DEP notification as required by the New Jersey Department of Environmental Protection ("NJDEP") Administrative Requirements for the Remediation of Contaminated Sites (N.J.A.C. 7:26C), and the Technical Requirements for Site Remediation (N.J.A.C. 7:26E) for the unregulated 550-gallon diesel fuel underground storage tank ("UST").

The Consultant shall prepare the local permit application for the removal of the UST and shall submit it to the local municipal offices and obtain all approvals necessary for the UST removal.

The Consultant shall oversee the tank cleaning, waste collection and disposal. Residual product and sludge from the UST shall be collected in a vac truck for off-site disposal. The work area shall be monitored for the presence of combustible vapors and oxygen during the field activities. The waste material including residual product and sludge shall be disposed at an off-site licensed facility for recycling. Waste manifests shall be obtained.

Tank Removal and Disposal. The area around the tank shall be excavated and the tank shall be removed for examination. Excavated soils shall be temporarily stockpiled and the excavation area shall be examined for evidence of discharge of petroleum product and soil/groundwater contamination based on visual observations and field screening using an organic vapor meter (OVM). The tank and piping shall be disposed at a scrap yard.

Post-Excavation Soil Sampling and Laboratory Analysis shall be conducted pursuant to removal

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of the UST and piping, post-excavation soil sampling shall be performed in accordance with the "NJDEP Field Sampling Procedures Manual" and as per the summary of soil sampling and analysis required in accordance with N.J.A.C. 7:26E-6.3(b).

The excavation area shall be backfilled with excavated overburden soils and suitable fill material. A clean fill certificate for the backfill material shall be provided with the UST Closure Report.

Upon completion of the field activities and receipt of the laboratory analytical data, a Site Investigation ("SI") Report for the closure of the UST shall be submitted to NJDEP with a Response Action Outcome ("RAO"). The report shall describe the tank closure activities, observed condition of the UST upon removal, condition of the subsurface soils and groundwater, results of soil analysis, waste disposal documents, conclusions and recommendations. The SI Report shall be submitted to the client for review and signature prior to submission to the NJDEP.

4. New Generator:

The Consultant shall provide the Design, Construction Administration, Permitting and Bid/Award services to replace the existing 30KW diesel fuel powered generator with a new appropriate sized generator. The Consultant shall be responsible to classify and size the new generator according to the additional load requirements proposed by the facility, i.e. lighting, fire alarm, heating and air conditioning systems, etc. for the Vocational High School Building No. 25.

Investigate industry-recognized manufacturers of the replacement components to be specified in the design documents. Items to consider shall include, but not be limited to product reliability and performance, manufacturer's years of service, equipment costs, warranties, guarantees, delivery schedule, compatibility with the existing equipment and related components, physical size, etc. Note that the names of three "equal" manufacturers shall be identified and included in the design documents for reference.

5. Drawings:

Provide a Single- Line Diagram to show new generator tie-in details that identifies the name, location, and rating of all switchgears, transformers and generator control panel components. Include all demand factors, switch and panel schedules, wiring identification codes, drawing legends, etc. on the documents.

Provide short circuit study and selective coordination study of over-current protection devices. Provide details on the drawings of any special assembly, electrical tie in requirements, or any other governing or limiting factor of the manufacturer's system component. The drawings shall be prepared with sufficient flexibility to accommodate variations among the equipment manufacturers approved by the Project Team.

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6. Gas Service Changes:

Determine any modifications to the gas service required and provide the design and specifications for the gas piping to the new generator, in case it is determined the new generator is classified stand-by only and shall be powered by natural gas. The Consultant must coordinate with the utility company, if necessary, regarding changes to gas service.

Provide a Single- Line Diagram for the site to show service details and new general tie-in details.

7. New Aboveground Storage Tank (AST):

In case the new generator is classified as an emergency backup generator and a new aboveground storage tank for diesel fuel is required, the Consultant shall provide the design and specifications to install a new aboveground storage tank. The new AST shall be located outside of the building, location to be determined by the consultant.

8. Generator Pads:

The Consultant shall provide the design and specifications to construct concrete pads for the new generator and the new aboveground storage tank. Provide signed and sealed structural calculations, verifying that they will support the new equipment. Conduct geotechnical testing, if necessary, which would include soil borings and a geotechnical report as to satisfy DPMC code review permit requirements

9. Equipment Installation Schedule:

Develop a proposed sequenced phased construction schedule that identifies how the new generator, components and other related items are to be installed. Minimize the required downtime and switchover periods. Premium time and temporary emergency backup power shall be provided if required. The final approved schedule shall be included in Division 1 of the specification for Contractor reference during bidding.

Determine all construction schedule coordination requirements with the local Electrical Utility Company and representatives of the Marie Katzenbach School for the Deaf. Identify the need for a temporary emergency generator during the anticipated emergency power shutdown duration and include the information in the design documents for reference.

10. Equipment Tests:

The design documents shall include detailed test requirements of the new equipment and systems. The Contractor and a certified testing lab shall perform operational tests of the completed installation to certify their proper operation. All test results shall be bound in a booklet and three (3) copies presented to the Project Manager for record.

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11. Spare Parts:

A critical spare parts list shall be prepared for all appropriate items and purchased as part of this project. The Consultant shall include provisions for the manufacture/vendor of the equipment to provide critical spare and maintenance parts as part of this project. All of the critical parts shall be reviewed and approved by the Client Agency.

C. PERMIT APPLICATIONS

The Consultant is responsible to prepare permit application packages for all State and Federal Agencies that are required to complete the project. The Consultant shall identify any and all approvals needed, and any other costs associated with the new design and construction. The Consultant shall also develop a detailed estimate of construction costs.

D. ADDITIONAL DESIGN REQUIREMENTS

1. Construction Work Area Requirements:

Indicate the location and dimensioned details for any temporary construction barriers for security and/or safety, plastic barriers for dust and dirt containment, and special covers for equipment protection during the removal and installation of the new equipment and system components. The design documents shall describe all salvage items that are to be retained by Client Agencies.

2. Fire Protection:

Address the fire protection requirements during any demolition and installation of equipment and systems. Language shall be included in the design documents that states any acetylene, welding, brazing, and soldering equipment, or other potential source of fire ignition cannot be used on the construction site until a fire watch program has been submitted by the Contractor and approved by the Consultant and Project Team members. The Client Agencies will not perform the required fire watch.

3. Training:

The authorized service representative(s) shall train the facility personnel in the operation and maintenance of the new equipment and systems installed, including systematic troubleshooting with required test equipment. The representative shall be familiar with the installed items and have a minimum of 3 years of training experience.

Three (3) copies of the operation and maintenance manuals shall be prepared and presented to the Project Manager for reference.

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E. HAZARDOUS BUILDING MATERIALS

Consultant shall survey the building(s) and, if deemed necessary, collect samples of materials that will be impacted by the construction/demolition activities and analyze them for the presence of hazardous materials including:

- 1. Asbestos in accordance with N.J.A.C. 5:23-8, Asbestos Hazard Abatement Sub code.
- 2. Lead in accordance with N.J.A.C. 5:17, Lead Hazard Evaluation and Abatement Code.
- 3. PCB's in accordance with 40 CFR 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions. Consultant shall engage a firm certified in the testing and analysis of materials containing PCB's.

Consultant shall document their procedure, process and findings and prepare a "Hazardous Materials Survey Report" identifying building components impacted by construction activities requiring hazardous materials abatement. Consultant shall provide three copies of the "Hazardous Materials Survey Report" to the Project Manager.

Consultant shall estimate the cost of hazardous materials sample collection, destructive testing as necessary, tests and analysis and preparation of the Hazardous Materials Survey Report and include that amount in their fee proposal line item entitled "Hazardous Materials Testing and Report Allowance", refer to paragraph XI.B.

Based on the Hazardous Materials Survey Report, Consultant shall provide construction documents for abatement of the hazardous materials impacted by the work in accordance with the applicable code, sub code and Federal regulations.

Consultant shall estimate the cost to prepare construction documents for hazardous materials abatement and include that amount in their fee proposal line item entitled "Hazardous Materials Abatement Design Allowance", refer to paragraph XI.C.

Consultant shall estimate the cost to provide "Construction Monitoring and Administration Services" for hazardous materials abatement activities and include that amount in their fee proposal line item entitled "Hazardous Materials Construction Administration Allowance", refer to paragraph XI.D.

There shall be no "mark-up" of sub consultant or subcontractor fees if sub consultants or subcontractors are engaged to perform any of the work defined in paragraph VII.C "Hazardous Building Materials". All costs associated with managing, coordinating, observing and administrating sub consultants and subcontractors performing hazardous materials sampling, testing, analysis, report preparation, hazardous materials construction administration services shall be included in the consultant's lump sum fee proposal.

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F. GENERAL DESIGN OVERVIEW

1. Design Detail:

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The Consultant shall understand that construction documents submitted to DPMC shall go beyond the basic requirements set forth by the Uniform Construction Code N.J.A.C. 5:23-2.15(f). Drawings and specifications shall provide detail beyond that required to merely show the nature and character of the work to be performed. The construction documents shall provide sufficient information and detail to illustrate, describe and clearly delineate the design intent of the Consultant and enable all Contractors to uniformly bid the project.

The Consultant shall review and comply with the DPMC "Plan Review Instructions" which can be found on DPMC's web site at:

http://www.state.nj.us/treasury/dpmc/lists and publications.shtml

The Consultant shall ensure that all of the design items described in this scope of work are addressed and included in the project drawings and specification sections where appropriate.

It shall be the Consultant's responsibility to provide all of the design elements for this project. Under no circumstance may they delegate the responsibility of the design; or portions thereof, to the Contractor unless specifically allowed in this Scope of Work.

2. Specification Format:

The Consultant shall prepare the construction specifications in the Construction Specifications Institute (CSI) format entitled MasterFormat©, latest edition.

The project construction specifications shall include only those CSI MasterFormat© specification sections and divisions applicable to this specific project.

3. Submittal Schedule:

The Consultant shall include a submittal schedule in Division 1 of the specifications. The schedule (list of required submittals) shall identify the general conditions and/or specification section (number and name) and the type of submittal required (material data, product data, test

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results, calculations, etc.). The submittal schedule is a compilation of the submittals required on the project and is provided as an aid to the contractor.

4. Construction Cost Estimates:

The Consultant shall include with each design submittal phase identified in Paragraph IV.A, including the Permit Application Phase and Bid Phase, a detailed construction cost estimate itemized and summarized by the divisions and sections of the Construction Specification Institute (CSI) MasterFormat© latest edition applicable to the project.

The detailed breakdown of each work item shall include labor, equipment, material and total costs.

The construction estimate shall include all alternate bid items and all unit price items itemized and summarized by the divisions and sections of the specifications.

All cost estimates shall be adjusted for regional location, site factors, construction phasing, premium time, building use group, location of work within the building, temporary swing space, security issues, and inflation factors based on the year in which the work is to be performed.

The cost estimate shall include descriptions of all allowances and contingencies noted in the estimate.

All cost estimates must be submitted on a DPMC-38 Project Cost Analysis form at each design phase of the project supported by the detailed construction cost estimate. The Project Manager will provide cost figures for those items which may be in addition to the CCE such as art inclusion, CM services, etc. and must be included as part of the CWE. This cost analysis must be submitted for all projects regardless of the Construction Cost Estimate amount.

G. PROJECT COMMENCEMENT

A pre-design meeting shall be scheduled with the Consultant and the Project Team members at the commencement of the project to obtain and/or coordinate the following information:

1. Project Directory:

Develop a project directory that identifies the name and phone number of key designated representatives who may be contacted during the design and construction phases of this project.

2. Site Access:

Develop procedures to access the project site and provide the names and phone numbers of approved escorts when needed. Obtain copies of special security and policy procedures that

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must be followed during all work conducted at the facility and include this information in Division 1 of the specification.

3. Project Coordination:

Review and become familiar with any current and/or future projects at the site that may impact the design, construction, and scheduling requirements of this project. Incorporate all appropriate information and coordination requirements in Division 1 of the specification.

4. Existing Documentation:

Copies of the following documents will be provided to each Consulting firm at the pre-proposal meeting to assist in the bidding process.

• (DPMC Project E0384-00: **Domestic Hot Water System Upgrade**, dated October 19, 2020, prepared by Princeton Engineering Services)

Review these documents and any additional information that may be provided at a later date such as reports, studies, surveys, equipment manuals, as-built drawings, etc. The State does not attest to the accuracy of the information provided and accepts no responsibility for the consequences of errors by the use of any information and material contained in the documentation provided. It shall be the responsibility of the Consultant to verify the contents and assume full responsibility for any determination or conclusion drawn from the material used. If the information provided is insufficient, the Consultant shall take the appropriate actions necessary to obtain the additional information required.

All original documentation shall be returned to the provider at the completion of the project.

5. Scope of Work:

Review the design and construction administration responsibilities and the submission requirements identified in this Scope of Work with the Project Team members. Items such as: contract deliverables, special sequencing or phased construction requirements, special hours for construction based on Client Agency programs or building occupancy, security needs, delivery dates of critical and long lead items, utility interruptions or shut down constraints for tie-ins, weather restrictions, and coordination with other project construction activities at the site shall be addressed.

This information and all general administrative information; including a narrative summary of the work for this project, *shall be included in Division 1* of the specification. The Consultant shall assure that there are no conflicts between the information contained in Division 1 of the specification and the DPMC General Conditions.

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6. Project Schedule:

Review and update the project design and construction schedule with the Project Team members.

H. BUILDING & SITE INFORMATION

The following information shall be included in the project design documents.

1. Building Classification:

Provide the building Use Group Classification and Construction Type on the appropriate design drawing.

2. Building Block & Lot Number:

Provide the site Block and Lot Number on the appropriate design drawing.

3. Building Site Plan:

Only when the project scope involves site work, or when the design triggers code issues that require site information to show code compliance, shall a site plan be provided that is drawn in accordance with an accurate boundary line survey. The site plan shall include, but not be limited to, the following as may be applicable:

- The size and location of new and existing buildings and additions as well as other structures.
- The distance between buildings and structures and to lot lines.
- Established and new site grades and contours as well as building finished floor elevations.
- New and existing site utilities, site vehicular and pedestrian roads, walkways and parking areas.

4. Site Location Map:

Provide a site location map on the drawing cover sheet that identifies the vehicular travel routes from major roadways to the project construction site and the approved access roads to the Contractor's worksite staging area.

I. DESIGN MEETINGS & PRESENTATIONS

1. Design Meetings:

Conduct the appropriate number of review meetings with the Project Team members during each design phase of the project so they may determine if the project meets their requirements,

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question any aspect of the contract deliverables, and make changes where appropriate. The Consultant shall describe the philosophy and process used in the development of the design criteria and the various alternatives considered to meet the project objectives. Selected studies, sketches, cost estimates, schedules, and other relevant information shall be presented to support the design solutions proposed. Special considerations shall also be addressed such as: Contractor site access limitations, utility shutdowns and switchover coordination, phased construction and schedule requirements, security restrictions, available swing space, material and equipment delivery dates, etc.

It shall also be the responsibility of the Consultant to arrange and require all critical Sub-Consultants to be in attendance at the design review meetings.

Record the minutes of each design meeting and distribute within seven (7) calendar days to all attendees and those persons specified to be on the distribution list by the Project Manager.

2. Design Presentations:

The minimum number of design presentations required for each phase of this project is identified below for reference:

Design Development Phase: One (1) oral presentation at phase completion.

Final Design Phase: One (1) oral presentation at phase completion.

J. CONSTRUCTION BID DOCUMENT SUBMITTAL

In addition to submitting construction bid documents as defined in Section XIV Contract Deliverables, Consultant shall submit both specifications and drawings on compact disk (CD) in *Adobe Portable Document Format* (.pdf).

VIII. CONSULTANT CONSTRUCTION RESPONSIBILITIES

A. GENERAL CONSTRUCTION ADMINISTRATION OVERVIEW

This section of the Scope of Work is intended as a guide for the Consultant to understand its overall basic construction administration responsibilities for the project and does not attempt to identify each specific activity or deliverable required during this phase. The Consultant shall obtain that information from the current publication of the DPMC Procedures for Architects and Engineers Manual and any additional information provided during the Consultant Selection Process.

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B. PRE-BID MEETING

The Consultant shall attend, chair, record and distribute minutes of the Contractor pre-bid meetings. When bidders ask questions that may affect the bid price of the project, the Consultant shall develop a Bulletin(s) to clarify the bid documents in the format described in the Procedures for Architects and Engineers Manual, Section 9.2 entitled "Bulletins." These Bulletins must be sent to DPMC at least seven (7) calendar days prior to the bid opening date. DPMC will then distribute the document to all bidders.

C. POST BID REVIEW MEETING, RECOMMENDATION FOR AWARD

The Consultant; in conjunction with the Project Manager, shall review the bid proposals submitted by the various Contractors to determine the low responsible bid for the project. The Consultant, in conjunction with the Project Manager and Project Team members, shall develop a post bid questionnaire based on the requirements below and schedule a post bid review meeting with the Contractor's representative to review the construction costs and schedule, staffing, and other pertinent information to ensure they understand the Scope of the Work and that their bid proposal is complete and inclusive of all requirements necessary to deliver the project in strict accordance with the plans and specifications.

1. Post Bid Review:

Review the project bid proposals including the alternates, unit prices, and allowances within seven (7) calendar days from the bid due date. Provide a bid tabulation matrix comparing all bids submitted and make a statement about the high, low, and average bids received. Include a comparison of the submitted bids to the approved current construction cost estimate. When applicable, provide an analysis with supporting data, detailing why the bids did not meet the construction cost estimate.

2. Review Meeting:

Arrange a meeting with the apparent low bid Contractor to discuss its bid proposal and other issues regarding the award of the contract. Remind the Contractor that this is a Lump Sum bid. Request the Contractor to confirm that its bid proposal does not contain errors. Review and confirm Alternate pricing and Unit pricing and document acceptance or rejection as appropriate.

Comment on all omissions, qualifications and unsolicited statements appearing in the proposals. Review any special circumstances of the project. Ensure the Contractor's signature appears on all post bid review documents.

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3. Substitutions:

Inquire about any potential substitutions being contemplated by the Contractor and advise them of the State's guidelines for the approval of substitutions and the documentation required. Review the deadline and advise the Contractor that partial submissions are not acceptable. Submission after the deadline may be rejected by the State.

Equal substitutions that are proposed by the Contractor that are of lesser value must have a credit change order attached with the submittal (See Article 4.7.5 "Substitutions" of the General Conditions). The State has the right to reject the submission if there is no agreement on the proposed credit. Contractor will be responsible to submit a specified item.

4. Schedule:

Confirm that the Contractor is aware of the number of calendar days listed in the contract documents for the project duration and that the Contractor's bid includes compliance with the schedule duration and completion dates. Particular attention shall be given to special working conditions, long lead items and projected delivery dates, etc. Review project milestones (if applicable). This could give an indication of Contractor performance, but not allow a rejection of the bid.

Review the submittal timeframes per the Contract documents. Ask the Contractor to identify what products will take over twenty-eight (28) calendar days to deliver from the point of submittal approval.

If a CPM Schedule is required, review the provisions and have Contractor acknowledge the responsibility. Ask for the name of the CPM Scheduler and the "ballpark" costs.

5. Performance:

Investigate the past performance of Contractor by contacting Architects and owners (generally three of each) that were listed in the DPMC pre-qualification package or other references that may have been provided. Inquire how the Contractor performed with workmanship, schedule, project management, change orders, cooperation, paper work, etc.

6. Letter of Recommendation:

The Consultant shall prepare a Letter of Recommendation for contract award to the Contractor submitting the lowest responsible bid within three (3) calendar days from the post bid review meeting. The document shall contain the project title, DPMC project number, bid due date and expiration date of the proposal. It shall include a detailed narrative describing each post bid meeting agenda item identified above and a recommendation to award the contract to the

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apparent low bid Contractor based on the information obtained during that meeting. Describe any acceptance or rejection of Alternate pricing and Unit pricing.

Comment on any discussion with the Contractor that provides a sense of its understanding of the project and any special difficulties that they see, and how they might approach those problems.

Attach all minutes of the Post bid meeting and any other relevant correspondence with the Letter of Recommendation and submit them to the Project Manager.

7. Conformed Drawings:

The Consultant shall prepare and distribute two (2) sets of drawings stamped "Conformed Drawings" to the Project Manager that reflect all Bulletins and/or required changes, additions, and deletions to the pertinent drawings within fourteen (14) calendar days of the construction contract award date.

Any changes made in Bulletins, meeting minutes, post bid review requirements shall also be reflected in the specification.

D. DIRECTOR'S HEARING

The Consultant must attend any Director's hearing(s) if a Contractor submits a bid protest. The Consultant shall be present to interpret the intent of the design documents and answer any technical questions that may result from the meeting. In cases where the bid protest is upheld, the Consultant shall submit a new "Letter of Recommendation" for contract award. The hours required to attend the potential hearings and to document the findings shall be estimated by the Consultant and the costs will be included in the base bid of its fee proposal.

E. CONSTRUCTION JOB MEETINGS, SCHEDULES, LOGS

The Consultant shall conduct all of the construction job meetings, to be held bi-weekly for the duration of construction, in accordance with the procedures identified in the A/E manual and those listed below.

1. Meetings:

The Consultant and Sub-Consultant(s) shall attend the pre-construction meeting and all construction job meetings during the construction phase of the project. The Consultant shall chair the meeting, transcribe and distribute the job-meeting minutes for every job meeting to all attendees and to those persons specified to be on the distribution list by the Project Manager. The Agenda for the meeting shall include, but not be limited to the items identified in the Procedures for Architects and Engineers Manual, Section 10.3.1, entitled "Agenda."

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Also, the Consultant is responsible for the preparation and distribution of minutes within three (3) working days of the meeting. The format to be used for the minutes shall comply with those identified in the "Procedures for Architects and Engineers Manual," Section 10.3.4, entitled, "Format of Minutes." All meeting minutes are to have an "action" column indicating the party that is responsible for the action indicated and a deadline to accomplish the assigned task. These tasks must be reviewed at each job progress meeting until it is completed and the completion date of each task shall be noted in the minutes of the meeting following the task completion.

2. Schedules:

The Consultant; with the input from the Client Agency Representative and Project Manager, shall review and recommend approval of the project construction schedule prepared by the Contractor. The schedule shall identify all necessary start and completion dates of construction, construction activities, submittal process activities, material deliveries and other milestones required to give a complete review of the project.

The Consultant shall record any schedule delays, the party responsible for the delay, the schedule activity affected, and the original and new date for reference.

The Consultant shall ensure that the Contractor provides a two (2) week "look ahead" construction schedule based upon the current monthly updated schedule as approved at the biweekly job meetings and that identifies the daily planned activities for that period. This Contractor requirement must also be included in Division 1 of the specification for reference.

3. Submittal Log:

Based on the Submittal Schedule in Division 1 of the specifications, the Consultant shall develop and implement a submittal log that includes all of the required project submittals as identified in the general conditions and technical specifications. The submittal log shall be provided to the contractor at the pre-construction meeting. The dates of submission shall be determined and approved by all affected parties during the pre-construction meeting.

Examples of the submissions to be reviewed and approved by the Consultant and Sub-Consultant (if required) include: project schedule, schedule of values, shop drawings, equipment and material catalog cuts, spec sheets, product data sheets, MSDS material safety data sheets, specification procedures, color charts, material samples, mock-ups, etc. The submittal review process must be conducted at each job progress meeting and shall include the Consultant, Sub-Consultant, Contractor, Project Manager, and designated representatives of the Client Agency.

The Consultant shall provide an updated submittal log at each job meeting that highlights the status of all required submissions.

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F. CONSTRUCTION SITE ADMINISTRATION SERVICES

The Consultant and Sub-Consultant(s) shall provide construction site administration services during the duration of the project. The Consultant and Sub-Consultant(s) do not necessarily have to be on site concurrently if there are no critical activities taking place that require the Sub-Consultant's participation.

The services required shall include, but not be limited to; field observations sufficient to verify the quality and progress of construction work, conformance and compliance with the contract documents, and to attend/chair meetings as may be required by the Project Manager to resolve special issues.

Consultant and Sub-Consultant(s) shall conduct weekly site inspection/field observation visits. Site inspection/field observation visits may be conducted in conjunction with regularly scheduled bi-weekly construction job meetings, depending on the progress of work, for weeks that construction job meetings are scheduled. The Consultant and its Sub-Consultant(s) shall submit a field observation report for each site inspection to the Project Manager within three (3) calendar days of the site visit. Also, they shall conduct inspections during major construction activities including, but not limited to the following examples: concrete pours, steel and truss installations, code inspections, final testing of systems, achievement of each major milestone required on the construction schedule, and requests from the Project Manager. The assignment of a full time on-site Sub-Consultant does not relieve the Consultant of its site visit obligation.

The Consultant shall refer to Section XIV. Contract Deliverables of this Scope of Work subsection entitled "Construction Phase" to determine the extent of services and deliverables required during this phase of the project.

G. SUB-CONSULTANT PARTICIPATION

It is the responsibility of the Consultant to ensure that they have provided adequate hours and/or time allotted in its technical proposal so that Sub-Consultants may participate in all appropriate phases and activities of this project or whenever requested by the Project Manager. This includes the pre-proposal site visit and the various design meetings and construction job meetings, site visits, and close-out activities described in this Scope of Work. Field observation reports and/or meeting minutes are required to be submitted to the Project Manager within three (3) calendar days of the site visit or meeting. All costs associated with such services shall be included in the base bid of the Consultant's fee proposal.

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H. DRAWINGS

1. Shop Drawings:

Each Contractor shall review the specifications and determine the numbers and nature of each shop drawing submittal. Five (5) sets of the documents shall be submitted with reference made to the appropriate section of the specification. The Consultant shall review the Contractor's shop drawing submissions for conformity with the construction documents within seven (7) calendar days of receipt. The Consultant shall return each shop drawing submittal stamped with the appropriate action, i.e. "Approved", "Approved as Noted", "Approved as Noted Resubmit for Records", "Rejected", etc.

2. As-Built & Record Set Drawings:

The Contractor(s) shall keep the contract drawings up-to-date at all times during construction and upon completion of the project, submit AS-BUILT drawings to the Consultant with the Contractor(s) certification as to the accuracy of the information prior to final payment. All AS-BUILT drawings submitted shall be entitled AS-BUILT above the title block and dated.

The Consultant shall review the Contractor(s)' AS-BUILT drawings at each job progress meeting to ensure that they are up-to-date. Any deficiencies shall be noted in the progress meeting minutes.

The Consultant shall acknowledge acceptance of the AS-BUILT drawings by signing a transmittal indicating they have reviewed them and that they reflect the AS-BUILT conditions as they exist.

Upon receipt of the AS-BUILT drawings from the Contractor(s), the Consultant shall obtain the original reproducible drawings from DPMC and transfer the AS-BUILT conditions to the original full sized signed reproducible drawings to reflect RECORD conditions within fourteen (14) calendar days of receipt of the AS-BUILT information.

The Consultant shall note the following statement on the original RECORD-SET drawings. "The AS-BUILT information added to this drawing(s) has been supplied by the Contractor(s). The Architect/Engineer does not assume the responsibility for its accuracy other than conformity with the design concept and general adequacy of the AS-BUILT information to the best of the Architect's/Engineer's knowledge."

Upon completion, The Consultant shall deliver the RECORD-SET original reproducible drawings to DPMC who will acknowledge receipt in writing. This hard copy set of drawings and two (2) sets of current release AUTO CAD discs shall be submitted to DPMC. The discs shall contain all AS-BUILT drawings in both ".dwg" (native file format for AUTO CAD) and ".pdf" (*Adobe* portable document format) file formats.

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I. CONSTRUCTION DEFICIENCY LIST

The Consultant shall prepare, maintain and continuously distribute an on-going deficiency list to the Contractor, Project Manager, and Client Agency Representative during the construction phase of the project. This list shall be separate correspondence from the field observation reports and shall not be considered as a punch list.

J. INSPECTIONS: SUBSTANTIAL & FINAL COMPLETION

The Consultant and Sub-Consultant(s) accompanied by the Project Manager, Code Inspection Group, Client Agency Representative and Contractor shall conduct site inspections to determine the dates of substantial and final completion. The Project Manager will issue the only recognized official notice of substantial completion. The Consultant shall prepare and distribute the coordinated punch list, written warranties and other related DPMC forms and documents, supplied by the Contractor, to the Project Manager for review and certification of final contract acceptance.

If applicable, the punch list shall include a list of attic stock and spare parts.

K. CLOSE-OUT DOCUMENTS

The Consultant shall review all project close-out documents as submitted by the Contractors to ensure that they comply with the requirements listed in the "Procedure for Architects and Engineers' Manual." The Consultant shall forward the package to the Project Manager within fourteen (14) calendar days from the date the Certificate of Occupancy/Certificate of Approval is issued. The Consultant shall also submit a letter certifying that the project was completed in accordance with the contract documents, etc.

L. CLOSE-OUT ACTIVITY TIME

The Consultant shall provide all activities and deliverables associated with the "Close-Out Phase" of this project as part of its Lump Sum base bid. The Consultant and/or Sub-Consultant(s) may not use this time for additional job meetings or extended administrative services during the Construction Phase of the project.

M. TESTING, TRAINING, MANUALS AND ATTIC STOCK

The Consultant shall ensure that all equipment testing, training sessions and equipment manuals required for this project comply with the requirements identified below.

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1. Testing:

All equipment and product testing conducted during the course of construction is the responsibility of the Contractor. However, the Consultant shall ensure the testing procedures comply with manufacturers recommendations. The Consultant shall review the final test reports and provide a written recommendation of the acceptance/rejection of the material, products or equipment tested within seven (7) calendar days of receipt of the report.

2. Training:

The Consultant shall include in the specification that the Contractor shall schedule and coordinate all equipment training with the Project Manager and Client Agency representatives. It shall state that the Contractor shall submit the Operation and Maintenance (O&M) manuals, training plan contents, and training durations to the Consultant, Project Manager and Client Agency Representative for review and approval prior to the training session.

The Consultant shall ensure that the training session is video recorded by the Contractor. A copy of the recording shall be transmitted to the Project Manager on compact disk who will forward the material to the Client Agency for future reference.

All costs associated with the training sessions shall be borne by the Contractor installing the equipment. A signed letter shall be prepared stating when the training was completed and must be accompanied with the training session sign-in sheet as part of the project close-out package.

3. Operation & Maintenance Manuals:

The Consultant shall coordinate and review the preparation and issuance of the equipment manuals provided by the Contractor(s) ensuring that they contain the operating procedures, maintenance procedures and frequency, cut sheets, parts lists, warranties, guarantees, and detailed drawings for all equipment installed at the facility.

A troubleshooting guide shall be included that lists problems that may arise, possible causes with solutions, and criteria for deciding when equipment shall be repaired and when it must be replaced.

Include a list of the manufacturer's recommended spare parts for all equipment being supplied for this project.

A list of names, addresses and telephone numbers of the Contractors involved in the installations and firms capable of performing services for each mechanical item shall be included. The content of the manuals shall be reviewed and approved by the Project Manager and Client Agency Representative.

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The Consultant shall include in the specification that the Contractor must provide a minimum of ten (10) "throwaway" copies of the manual for use at the training seminar and seven (7) hardbound copies as part of the project close-out package.

4. Attic Stock:

The Consultant shall determine and recommend whether "attic stock" should be included for all aspects of the project. If required, the Consultant shall specify attic stock items to be included in the project.

Prior to project close-out, the Consultant must prepare a comprehensive listing of all items for delivery by the Contractor to the Owner and in accordance with the appropriate specification/plan section. Items shall include, but not be limited to: training sessions, O&M manuals, as-built drawings, itemized attic stock requirements, and manufacturer guarantees/warranties.

N. CHANGE ORDERS

The Consultant shall review and process all change orders in accordance with the contract documents and procedures described below.

1. Consultant:

The Consultant shall prepare a detailed request for Change Order including a detailed description of the change(s) along with appropriate drawings, specifications, and related documentation and submit the information to the Contractor for the change order request submission. This will require the use of the current DPMC 9b form.

2. Contractor:

The Contractor shall submit a DPMC 9b Change Order Request form to the Project Manager within seven (7) calendar days after receiving the Change Order from the Consultant. The document shall identify the changed work in a manner that will allow a clear understanding of the necessity for the change. Copies of the original design drawings, sketches, etc. and specification pages shall be highlighted to clarify and show entitlement to the Change Order.

Copies shall be provided of job minutes or correspondence with all relative information highlighted to show the origin of the Change Order. Supplementary drawings from the Consultant shall be included if applicable that indicate the manner to be used to complete the changed work. A detailed breakdown of all costs associated with the change, i.e. material, labor, equipment, overhead, Sub-Contractor work, profit and bond, and certification of increased bond shall be provided.

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If the Change Order will impact the time of the project, the Contractor shall include a request for an extension of time. This request shall include a copy of the original approved project schedule and a proposed revised schedule that reflects the impact on the project completion date. Documentation to account for the added time requested shall be included to support entitlement of the request such as additional work, weather, other Contractors, etc. This documentation shall contain dates, weather data and all other relative information.

3. Recommendation for Approval:

The Consultant shall evaluate the reason for the change in work and provide a detailed written recommendation for approval or disapproval of the Change Order Request including backup documentation of costs in CSI format and all other considerations to substantiate that decision.

4. Code Review:

The Consultant shall determine if the Change Order request will require Code review and shall submit six (6) sets of signed and sealed modified drawings and specifications to the DPMC Plan & Code Review Unit for approval, if required. The Consultant must also determine and produce a permit amendment request if required.

5. Cost Estimate:

The Consultant shall provide a detailed cost estimate of the proposed Change Order Request, as submitted by the Contractor, in CSI format (latest edition) for all appropriate divisions and subdivisions using a recognized estimating formula. The estimate shall then be compared with that of the Contractor's estimate. If any line item in the Consultant's estimate is lower than the corresponding line item in the Contractor's estimate, the Consultant in conjunction with the Project Manager is to contact the Contractor by telephone and negotiate the cost differences. The Consultant shall document the negotiated agreement on the Change Order Request form. If the Contractor's total dollar value changes based on the negotiations, the Consultant shall identify the changes on the Change Order Request form accordingly.

When recommending approval or disapproval of the change order, the Consultant shall be required to prepare and process a Change Order package that contains at a minimum the following documents:

- DPMC 9b Change Order Request
- DPMC 10 Consultant's Evaluation of Contractor's Change Order Request
- Consultant's Independent Detailed Cost Estimate
- Notes of Negotiations

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6. Time Extension:

When a Change Order Request is submitted with both cost and time factors, the Consultant's independent cost estimate is to take into consideration time factors associated with the changed work. The Consultant is to compare its time element with that of the Contractor's time request and if there is a significant difference, the Consultant in conjunction with the Project Manager is to contact the Contractor by telephone and negotiate the difference.

When a Change Order Request is submitted for time only, the Consultant is to do an independent evaluation of the time extension request using a recognized scheduling formula.

Requests for extension of contract time must be done in accordance with the General Conditions Article 10.1 "Changes in the Work".

7. Submission:

The Consultant shall complete all of the DPMC Change Order Request forms provided and submit a completed package to the Project Manager with all appropriate backup documentation within seven (7) calendar days from receipt of the Contractor's change order request. The Consultant shall resubmit the package at no cost to the State if the change order package contents are deemed insufficient by the Project Manager.

8. Meetings:

The Consultant shall attend and actively participate at all administrative hearings or settlement conferences as may be called by Project Manager in connection with such Change Orders and provide minutes of those meetings to the Project Manager for distribution.

9. Consultant Fee:

All costs associated with the potential Contractor Change Order Requests shall be anticipated by the Consultant and included in the base bid of its fee proposal.

If the Client Agency Representative requests a scope change; and it is approved by the Project Manager, the Consultant may be entitled to be reimbursed through an amendment and in accordance with the requirements stated in paragraph 10.01 of this Scope of Work.

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IX. PERMITS & APPROVALS

A. NJ UNIFORM CONSTRUCTION CODE PERMIT

The project construction documents must comply with the latest adopted edition of the NJ Uniform Construction Code (NJUCC).

The latest NJUCC Adopted Codes and Standards can be found at:

http://www.state.nj.us/dca/divisions/codes/codreg/

The Consultant shall complete the NJUCC permit application and all applicable technical subcode sections with all technical site data required. The Agent section of the application and certification section of the building sub-code section shall be signed. These documents shall be forwarded to the DPMC Project Manager.

The Consultant may obtain copies of all NJUCC permit applications at the following website:

http://www.state.nj.us/dca/divisions/codes/forms/

All other required project permits shall be obtained and paid for by the Consultant in accordance with the procedures described in Paragraph IX.B.

1. Prior Approval Certification Letters:

The issuance of a construction permit for this project may be contingent upon acquiring various "prior approvals" as defined by N.J.A.C. 5:23-1.4. It is the Consultant's responsibility to determine which prior approvals, if any, are required. The Consultant shall submit a general certification letter to the DPMC Plan & Code Review Unit Manager during the Permit Phase of this project that certifies all required prior approvals have been obtained.

In addition to the general certification letter discussed above, the following specific prior approval certification letters, where applicable, shall be submitted by the Consultant to the DPMC Plan & Code Review Unit Manager: Soil Erosion & Sediment Control, Water & Sewer Treatment Works Approval, Coastal Areas Facilities Review, Compliance of Underground Storage Tank Systems with N.J.A.C. 7:14B, Pinelands Commission, Highlands Council, Well Construction and Maintenance; Sealing of Abandoned Wells with N.J.A.C. 7:9D, Certification that all utilities have been disconnected from structures to be demolished, Board of Health Approval for Potable Water Wells, Health Department Approval for Septic Systems. It shall be noted that in accordance with N.J.A.C. 5:23-2.15(a)5, a permit cannot be issued until the letter(s) of certification is received.

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2. Multi-building or Multi-site Permits:

A project that involves many buildings and/or sites requires that a separate permit shall be issued for each building or site. The Consultant must determine the construction cost estimate for *each* building and/or site location and submit that amount where indicated on the permit application.

3. Special Inspections:

In accordance with the requirements of the New Jersey Uniform Construction Code N.J.A.C. 5:23-2.20(b), Bulletin 03-5 and Chapter 17 of the International Building Code, the Consultant shall be responsible for the coordination of all special inspections during the construction phase of the project.

Bulletin 03-5 can be found at:

http://www.state.nj.us/dca/divisions/codes/publications/pdf bulletins/b 03 5.pdf

a. Definition:

Special inspections are defined as an independent verification by a certified Special Inspector for Class I buildings and smoke control systems in any class building. The special inspector is to be independent from the Contractor and responsible to the Consultant so that there is no possible conflict of interest.

Special inspectors shall be certified in accordance with the requirements in the New Jersey Uniform Construction Code.

b. Responsibilities:

The Consultant shall submit with the permit application, a list of special inspections and the agencies or special inspectors that will be responsible to carry out the inspections required for the project. The list shall be a separate document, on letter head, signed and sealed.

B. OTHER REGULATORY AGENCY PERMITS, CERTIFICATES AND APPROVALS

The Consultant shall identify and obtain all other State Regulatory Agency permits, certificates, and approvals that will govern and affect the work described in this Scope of Work. An itemized list of these permits, certificates, and approvals shall be included with the Consultant's Technical Proposal and the total amount of the application fees should be entered in the Fee Proposal line item entitled, "Permit Fee Allowance."

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The Consultant may refer to the Division of Property Management and Construction "Procedures for Architects and Engineers Manual", Section 6.4.8, which presents a compendium of State permits, certificates, and approvals that may be required for this project.

The Consultant shall determine the appropriate phase of the project to submit the permit application(s) in order to meet the approved project milestone dates.

Where reference to an established industry standard is made, it shall be understood to mean the most recent edition of the standard unless otherwise noted. If an industry standard is found to be revoked, or should the standard have undergone substantial change or revision from the time that the Scope of Work was developed, the Consultant shall comply with the most recent edition of the standard.

C. STATE INSURANCE APPROVAL

If requested by the using agency or DPMC design management, plans and specifications shall be submitted to the State insurance underwriter for review and comment. The plans shall be sent directly by the consultant and a copy of the comments, if any, shall be provided to the DPMC Plan & Code Review Unit for its information. The Consultant shall review all the comments and, with agreement of the Project Team, modify the documents while adhering to the project's SOW requirements, State code requirements, schedule, budget, and Consultant fee.

D. PUBLIC EMPLOYEES OCCUPATIONAL SAFETY & HEALTH PROGRAM

A paragraph shall be included in the design documents, if applicable to this project that states: The Contractor shall comply with all the requirements stipulated in the Public Employees Occupational Safety & Health Program (PEOSHA) document, paragraph 12:100-13.5 entitled "Air quality during renovation and remodeling". The Contractor shall submit a plan demonstrating the measures to be utilized to confine the dust, debris, and air contaminants in the renovation or construction area of the project site to the Project Team prior to the start of construction.

The link to the document is:

http://www.nj.gov/health/workplacehealthandsafety/peosh/peosh-health-standards/iaq.shtml

E. PERMIT MEETINGS

The Consultant shall attend and chair all meetings with Permitting Agencies necessary to explain and obtain the required permits.

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F. MANDATORY NOTIFICATIONS

The Consultant shall include language in Division 1 of the specification that states the Contractor shall assure compliance with the New Jersey "One Call" Program (1-800-272-1000) if any excavation is to occur at the project site.

The One Call Program is known as the "New Jersey Underground Facility Protection Act", refer to N.J.A.C. 14:2.

G. CONSULTANT FEE

The Consultant shall determine the efforts required to complete and submit all permit applications, obtain and prepare supporting documentation, attend meetings, etc., and include the total cost in the base bid of its fee proposal under the "Permit Phase".

X. GENERAL REQUIREMENTS

A. SCOPE CHANGES

The Consultant must request any changes to this Scope of Work in writing. An approved DPMC 9c Consultant Amendment Request form reflecting authorized scope changes must be received by the Consultant prior to undertaking any additional work. The DPMC 9c form must be approved and signed by the Director of DPMC and written authorization issued from the Project Manager prior to any work being performed by the Consultant. Any work performed without the executed DPMC 9c form is done at the Consultant's own financial risk.

B. ERRORS AND OMISSIONS

The errors and omissions curve and the corresponding sections of the "Procedures for Architects and Engineers Manual" are eliminated. All claims for errors and omissions will be pursued by the State on an individual basis. The State will review each error or omission with the Consultant and determine the actual amount of damages, if any, resulting from each negligent act, error or omission.

C. ENERGY INCENTIVE PROGRAM

The Consultant shall review the programs described on the "New Jersey's Clean Energy Program" website at: http://www.njcleanenergy.com to determine if any proposed upgrades to the mechanical and/or electrical equipment and systems for this project qualify for "New Jersey Clean Energy Program" rebates and incentives such as SmartStart, Pay4Performance, Direct Install or any other incentives.

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The Consultant shall be responsible to complete the appropriate registration forms and applications, provide any applicable worksheets, manufacturer's specification sheets, calculations, attend meetings, and participate in all activities with designated representatives of the programs and utility companies to obtain the entitled financial incentives and rebates for this project. All costs associated with this work shall be estimated by the Consultant and the amount included in the base bid of its fee proposal.

XI. ALLOWANCES

A. PERMIT FEE ALLOWANCE

The Consultant shall obtain and pay for all of the project permits in accordance with the guidelines identified below.

1. Permits:

The Consultant shall determine the various permits, certificates, and approvals required to complete this project.

2. Permit Costs:

The Consultant shall estimate the application fee costs for all of the required project permits, certificates, and approvals (excluding the NJ Uniform Construction Code permit) and include that amount in its fee proposal line item entitled "Permit Fee Allowance", refer to Paragraph IX.A. A breakdown of each permit and application fee shall be attached to the fee proposal for reference.

NOTE: The NJ Uniform Construction Code permit is excluded since it will be paid for by the State.

3. Applications:

The Consultant shall complete and submit all permit applications to the appropriate permitting authorities and the costs shall be paid from the Consultant's permit fee allowance. A copy of the application(s) and the original permit(s) obtained by the Consultant shall be given to the DPMC Project Manager for distribution during construction.

4. Consultant Fee:

The Consultant shall determine what is required to complete and submit the permit applications, obtain supporting documentation, attend meetings, etc., and include the total cost in the base bid of its fee proposal under the "Permit Phase" column.

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Any funds remaining in the permit allowance will be returned to the State at the close of the project.

B. HAZARDOUS MATERIALS TESTING AND REPORT ALLOWANCE

Consultant shall estimate the costs to complete the hazardous materials survey, sample collection, testing and analysis and preparation of a "Hazardous Materials Survey Report" noted in paragraph VII.C and enter that amount on their fee proposal line item entitled "Hazardous Materials Testing and Report Allowance". Consultant shall attach a detailed cost breakdown sheet for use by DPMC during the proposal review and potential fee negotiations. The cost breakdown sheet shall include, but not be limited to, the following information:

- Description of tasks and estimated cost for the following:
 - Sample collection
 - o Sample testing
 - o Preparation of an Hazardous Materials Survey Report

Any funds remaining in the Hazardous Materials Testing and Report Allowance will be returned to the State at the close of the project.

C. HAZARDOUS MATERIALS ABATEMENT DESIGN ALLOWANCE

Consultant shall estimate the costs to prepare construction documents for hazardous materials abatement noted in paragraph VII.C and enter that amount on their fee proposal line item entitled "Hazardous Materials Abatement Design Allowance". Consultant shall attach a detailed cost breakdown sheet for use by DPMC during the proposal review and potential fee negotiations. The cost breakdown sheet shall include a description of the tasks to be performed and the estimated cost of each task.

Any funds remaining in the Hazardous Materials Abatement Design Allowance will be returned to the State at the close of the project.

D. HAZARDOUS MATERIALS CONSTRUCTION ADMINISTRATION ALLOWANCE

Consultant shall estimate the cost to provide Construction Monitoring and Administration Services for hazardous materials abatement as noted in paragraph VII.C and enter that amount on their fee proposal line item entitled "Hazardous Materials Construction Administration Allowance". Consultant shall attach a detailed cost breakdown sheet for use by DPMC during the proposal review and potential fee negotiations. The cost breakdown sheet shall include a description of the tasks to be performed and the estimated cost of each task.

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Any funds remaining in the Hazardous Materials Construction Administration Allowance will be returned to the State at the close of the project.

XII. SUBMITTAL REQUIREMENTS

A. CONTRACT DELIVERABLES

All submissions shall include the Contract Deliverables identified in Section XIV of this Scope of Work and described in the DPMC Procedures for Architects and Engineers Manual.

B. CATALOG CUTS

The Consultant shall provide catalog cuts as required by the DPMC Plan & Code Review Unit during the design document review submissions. Examples of catalog cuts include, but are not limited to: mechanical equipment, hardware devices, plumbing fixtures, fire suppression and alarm components, specialized building materials, electrical devices, etc.

C. PROJECT DOCUMENT BOOKLET

The Consultant shall submit all of the required Contract Deliverables to the Project Manager at the completion of each phase of the project. All reports, meeting minutes, plan review comments, project schedule, cost estimate in CSI format (latest edition), correspondence, calculations, and other appropriate items identified on the Submission Checklist form provided in the A/E Manual shall be presented in an 8½" x 11" bound "booklet" format.

D. DESIGN DOCUMENT CHANGES

Any corrections, additions, or omissions made to the submitted drawings and specifications at the Permit Phase of the project must be submitted to DPMC Plan & Code Review Unit as a complete document. Corrected pages or drawings may not be submitted separately unless the Consultant inserts the changed page or drawing in the original documents. No Addendums or Bulletins will be accepted as a substitution to the original specification page or drawing.

E. SINGLE-PRIME CONTRACT

All references to "separate contracts" in the Procedures for Architects and Engineers Manual, Chapter 8, shall be deleted since this project will be advertised as a "Single Bid" (Lump Sum All Trades) contract. The single prime Contractor will be responsible for all work identified in the drawings and specifications.

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The drawings shall have the required prefix designations and the specification sections shall have the color codes as specified for each trade in the DPMC Procedure for Architects and Engineers Manual.

The Consultant must still develop the Construction Cost Estimate (CCE) for each trade and the amount shall be included on the DPMC-38 Project Cost Analysis form where indicated. This document shall be submitted at each design phase of the project and updated immediately prior to the advertisement to bid.

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XIII. SOW SIGNATURE APPROVAL SHEET

This Scope of Work shall not be considered a valid document unless all signatures appear in each designated area below.

The Client Agency approval signature on this page indicates that they have reviewed the design criteria and construction schedule described in this project Scope of Work and verifies that the work will not conflict with the existing or future construction activities of other projects at the site.

SOW PREPARED BY:	10/07/2021
DOAA ABOUELELA, PROJECT MANAGER DPMC PROJECT PLANNING & INITIATION	DATE
DI METROJECT LANNING & INTIATION	
SOW APPROVED BY: James W. Wright JAMES WRIGHT, MANAGER	10/7/2021
JAMES WRIGHT, MANAGER DPMC PROJECT PLANNING & INITIATION	DATE
DPMC PROJECT PLANNING & INTTIATION	
SOW APPROVED BY: Joseph Vitelli	10/8/2021
JOSEPH VITELLI, PROJECT MANAGER DEPARTMENT OF EDUCATION	DATE
SOW APPROVED BY: Cotiltudo	10/14/21
CRISTINA ZOZZARO, PROJECT MANAGER DPMC PROJECT MANAGEMENT GROUP	DATE
SOW APPROVED BY: Kidad & Hodand	10/18/21
RICHARD FLODMAND, DEPUTY DIRECTOR DIV PROPERTY MGT & CONSTRUCTION	DATE

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XIV. CONTRACT DELIVERABLES

The following is a listing of Contract Deliverables that are required at the completion of each phase of this project. The Consultant shall refer to the DPMC publication entitled, "Procedures for Architects and Engineers," Volumes I and II, 2nd Edition, dated January, 1991 to obtain a more detailed description of the deliverables required for each item listed below.

The numbering system used in this "Contract Deliverables" section of the scope of work corresponds to the numbering system used in the "Procedures for Architects and Engineers" manual and some may have been deleted if they do not apply to this project.

DESIGN DEVELOPMENT PHASE: 50% Complete Design Documents (Minimum)

- 7.1 Project Schedule (Update Bar Chart Schedule)
- 7.2 Meetings & Minutes (Minutes within seven (7) calendar days of meeting)
- 7.3 Correspondence
- 7.4 Submission Requirements
 - 7.4.1 A/E Statement of Site Visit, As-Built Drawing Verification (if available)
 - 7.4.2 Space Analysis & Program Requirements
 - 7.4.3 Special Features Description: communications, security, fire protection, special structural features, etc.
 - 7.4.4 Site Evaluation
 - 7.4.7 Design Rendering/Sketches
 - 7.4.8 Regulatory Agency Approvals (See Section 6.4.8 for listing)
 - 7.4.9 Confirm Utility Availability (On Site & Public)

Gas Service

Tank Locations & Sizes

7.4.10 Drawings: 6 sets

Cover Sheet (See A/E Manual for format)

Site Plan

Site Utility Plan

Floor Plans

Elevations

Sections/Details

Structural Drawings, Seismic Design Load Criteria

Economic Comparison of Proposed vs. Alternate Fueled System

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Electrical Drawings, Riser Diagram, Panel Schedules, Service Size, Lighting Design

Emergency Power Equipment & Source

- 7.4.11 Specifications: 6 sets (See A/E Manual for format, include Division 1 and edit to describe the administrative and general requirements of the project)
- 7.4.12 Current Working Estimate in CSI Format & Cost Analysis 38 Form
- 7.4.13 Bar Chart of Design and Construction Schedule
- 7.4.14 Oral Presentation of Submission to Project Team
- 7.4.15 SOW Compliance Statement
- 7.4.16 This Submission Checklist (See A/E Manual, Figure 6.4.16 for format)
- 7.4.17 Deliverables Submission in Booklet Form: 7 sets

7.5 Approval

7.5.1 Respond to Submission Comments

7.6 Submission Forms

- Figure 7.4.12 Current Working Estimate/Cost Analysis
- Figure 7.4.16 Submission Checklist

FINAL DESIGN PHASE 100% Complete Construction Documents

This Final Design Phase may require more than one submission based on the technical quality and code conformance of the design documents.

- 8.1 Schedule (Update Bar Chart Schedule)
- 8.2 Meeting & Minutes (Minutes within seven (7) calendar days of meeting)
- 8.3 Correspondence

8.4 Submission Requirements

- 8.4.1 A/E Statement of Site Visit
- 8.4.8 Regulatory Agency Approvals (Include itemized list specific to this project)
- 8.4.10 Drawings: 6 sets
- 8.4.11 Specifications: 6 sets
- 8.4.12 Current Working Estimate in CSI Format & Cost Analysis 38 Form
- 8.4.13 Bar Chart of Design and Construction Schedule
- 8.4.14 Oral Presentation of this Submission to Project Team
- 8.4.15 Plan Review/SOW Compliance Statement
- 8.4.16 This Submission Checklist

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8.4.17 Deliverables Submission in Booklet Form: 7 sets

8.5 Approvals

8.5.1 Respond to Submission Comments

PERMIT APPLICATION PHASE

This Permit Application Phase should not include any additional design issues. Design documents shall be 100% complete at the Final Design Phase.

8.6 Permit Application Submission Requirements

- 8.6.1 8.6.7: If all of the deliverables of these sections have been previously submitted to DPMC and approved there are no further deliverables due at this time
- 8.6.8 Regulatory Agency Approvals(a) UCC Permit Application & Technical Sub-codes completed by A/E
- 8.6.9 Utility Availability Confirmation
- 8.6.10 Signed and Sealed Drawings: 6 sets
- 8.6.11 Signed and Sealed Specifications: 6 sets
- 8.6.12 Current Working Estimate/Cost Analysis
- 8.6.13 Bar Chart Schedule
- 8.6.14 Project Presentation (N/A this Project)
- 8.6.15 Plan Review/SOW Compliance Statement
- 8/6.16 Submission Checklist

8.7 Approvals

8.8 Submission Forms

Figure 8.4.12	Current Working Estimate/Cost Analysis
Figure 8.4.16	Submission Checklist (Final Review Phase)
Figure 8.6.12-b	Bid Proposal Form (Form DPMC -3)
Figure 8.6.12-c	Notice of Advertising (Form DPMC -31)
Figure 8.6.16	Submission Checklist (Permit Phase)
Figure 8.7	Bid Clearance Form (Form DPMC -601)

BIDDING AND CONTRACT AWARD

9.0 Bidding Phase Requirements

9.01 Original Drawings signed & sealed by A/E and drawings on compact disk (CD) in *Adobe Portable Document Format* (.pdf)

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9.02 One Unbound Specification Color Coded per A/E Manual Section 8.4.11 and specifications on compact disk (CD) in Adobe Portable Document Format (.pdf) 9.03 Bid Documents Checklist 9.04 Bid Proposal Form 9.05 Notice for Advertising 9.1 Chair Pre-Bid Conference/Mandatory Site Visit 9.2 Prepare Bulletins 9.3 Attend Bid Opening 9.4 Recommendation for Contract Award 9.4.1 Prepare Letter of Recommendation for Award & Cost Analysis 9.5 Attend Pre-Construction Meeting 9.6 Submission Checklist 9.7 Submission Forms Figure 9.4.1 Cost Analysis Figure 9.6 Submission Checklist CONSTRUCTION PHASE 10.1 Site Construction Administration 10.2 Pre-Construction Meeting 10.3.1 Agenda: Schedule and Chair Construction Job Meetings 10.3.2 Minutes: Prepare and Distribute Minutes within 5 working days of meeting 10.3.3 Schedules; Approve Contractors' Schedule & Update 10.3.4 Minutes Format: Prepare Job Meeting Minutes in approved format, figure			
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 10.3 Construction Job Meetings 10.3.1 Agenda: Schedule and Chair Construction Job Meetings 10.3.2 Minutes: Prepare and Distribute Minutes within 5 working days of meeting 10.3.3 Schedules; Approve Contractors' Schedule & Update 10.3.4 Minutes Format: Prepare Job Meeting Minutes in approved format, figure 	10.1	Site Co	nstruction Administration
10.3.1 Agenda: Schedule and Chair Construction Job Meetings 10.3.2 Minutes: Prepare and Distribute Minutes within 5 working days of meeting 10.3.3 Schedules; Approve Contractors' Schedule & Update 10.3.4 Minutes Format: Prepare Job Meeting Minutes in approved format, figure	10.2	Pre-Co	nstruction Meeting
 Minutes: Prepare and Distribute Minutes within 5 working days of meeting Schedules; Approve Contractors' Schedule & Update Minutes Format: Prepare Job Meeting Minutes in approved format, figure 	10.3	Constr	uction Job Meetings
		10.3.2 10.3.3	Minutes: Prepare and Distribute Minutes within 5 working days of meeting Schedules; Approve Contractors' Schedule & Update
10.4 Correspondence	10.4		

- 10.4 Correspondence
- 10.5 Prepare and Deliver Conformed Drawings
- 10.7 Approve Contractors Invoicing and Payment Process
- 10.8 Approve Contractors 12/13 Form for Subs, Samples and Materials

PROJECT LOCATION: Marie Katzenbach School, Vocational High School Bldg. No. 25

PROJECT NO: E0390-00 DATE: October 7, 2021

10.10	Approve	Test	Reports	š
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10.11 Approve Shop Drawings

10.12 Construction Progress Schedule

10.12.1 Construction Progress Schedule

10.13 Review & Recommend or Reject Change Orders

- 10.13.1 Scope Changes
- 10.13.2 Construction Change Orders
- 10.13.3 Field Changes

10.14 Construction Photographs

10.15 Submit Field Observation Reports

10.16 Submission Forms

Figure 10	.3.4-a	Job Meeting Format of Minutes
Figure 10	.3.4-b	Field Report
Figure 10	.6	DPMC Insurance Form-24
Figure 10	.6-a	Unit Schedule Breakdown
Figure 10	.6-b	Monthly Estimate for Payment to Contractor DPMC 11-2
Figure 10	.6-c	Monthly Estimate for Payment to Contractor DPMC 11-2A
Figure 10	.6-d	Invoice DPMC 11
Figure 10	.6-е	Prime Contractor Summary of Stored Materials DPMC 11-3
Figure 10	.6-f	Agreement & Bill of Sale certificate for Stored Materials DPMC 3A
Figure 10	.7-a	Approval Form for Subs, Samples & Materials DPMC 12
Figure 10	.7-b	Request for Change Order DPMC 9b
Figure 10	.9	Transmittal Form DPMC 13
Figure 10	10	Submission Charlist

PROJECT CLOSE-OUT PHASE

- 11.1 Responsibilities: Plan, Schedule and Execute Close-Out Activities
- 11.2 Commencement: Initiate Close-Out w/DPMC 20A Project Close-Out Form
- 11.3 Develop Punch List & Inspection Reports
- 11.4 Verify Correction of Punch List Items

11.5 Determination of Substantial Completion

PROJECT LOCATION: Marie Katzenbach School, Vocational High School Bldg. No. 25

PROJECT NO: E0390-00 DATE: October 7, 2021

11.6 Ensure Issuance of "Temporary Certificate of Occupancy or Approval"

11.7 Initiation of Final Contract Acceptance Process

11.8 Submission of Close-Out Documentation

- 11.8.1 As-Built & Record Set Drawings, 3 sets AUTOCAD Discs Delivered to DPMC
- 11.8.2 (a) Maintenance and Operating manuals, Warranties, etc.: 7 sets each
 - (b) Guarantees
 - (c) Testing Reports
 - (d) Shop Drawings
 - (e) Letter of Contract Performance
- 11.8.3 Final Cost Analysis-Insurance Transfer DPMC 25
- 11.8.4 This Submission Checklist

11.9 Final Payment

11.9.1 Contractors Final Payment

Figure 11.8.4 Submission Checklist

11.9.2 A/E Invoice and Close-Out Forms for Final Payment

11.10 Final Performance Evaluation of the A/E and the Contractors

11.11 Ensure Issuance of a "Certificate of Occupancy or Approval"

11.12 Submission Forms

Figure 11.2	Project Close-Out Documentation List DPMC 20A
Figure 11.3-a	Certificate of Substantial Completion DPMC 20D
Figure 11.3-b	Final Acceptance of Consultant Contract DPMC 20C
Figure 11.5	Request for Contract Transition Close-Out DPMC 20X
Figure 11.7	Final Contract Acceptance Form DPMC 20
Figure 11.8.3-a	Final Cost Analysis
Figure 11.8.3-b	Insurance Transfer Form DPMC 25

PROJECT LOCATION: Marie Katzenbach School, Vocational High School Bldg. No. 25

PROJECT NO: E0390-00 DATE: October 7, 2021

XV. EXHIBITS

The attached exhibits in this section will include a sample project schedule, and any supporting documentation to assist the Consultant in the design of the project such as maps, drawings, photographs, floor plans, studies, reports, etc.

END OF SCOPE OF WORK

February 7, 1997 **Rev.**: January 29, 2002

Responsible Group Code Table

The codes below are used in the schedule field "GRP" that identifies the group responsible for the activity. The table consists of groups in the Division of Property Management & Construction (DPMC), as well as groups outside of the DPMC that have responsibility for specific activities on a project that could delay the project if not completed in the time specified. For reporting purposes, the groups within the DPMC have been defined to the supervisory level of management (i.e., third level of management, the level below the Associate Director) to identify the "functional group" responsible for the activity.

CODE	DESCRIPTION	REPORTS TO ASSOCIATE DIRECTOR OF:
СМ	Contract Management Group	Contract Management
CA	Client Agency	N/A
CSP	Consultant Selection and Prequalification Group	Technical Services
A/E	Architect/Engineer	N/A
PR	Plan Review Group	Technical Services
CP	Construction Procurement	Planning & Administration
CON	Construction Contractor	N/A
FM	Financial Management Group	Planning & Administration
OEU	Office of Energy and Utility Management	N/A
PD	Project Development Group	Planning & Administration

EXHIBIT 'A'

а	Description	Rspn		Weeks				
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Design	u							
CV3001	Schedule/Conduct Predesign/Project Kick-Off Mtg.	X				## ## ## ## ## ## ## ## ## ## ## ## ##		
CV3020	Prepare Program Phase Submittal	AB						
CV3021	Distribute Program Submittal for Review	85			THE THE TANK			
CV3027	Prepare & Submit Pròject Cost Analysis (DPMC-38)	8		The second of th				
CV3022	Review & Approve Program Submittal	**************************************		The same and the s				
CV3023	Review & Approve Program Submittal	PR						
CV3024	Review & Approve Program Submittal	8						
CV3025	Consolidate & Return Program Submittal Comments	8		The second secon				
CV3030	Prepare Schematic Phase Submittal	AE .						
CV3031	Distribute Schematic Submittal for Review	8						
CV3037	Prepare & Submit Project Cost Analysis (DPMC-38)	CM						F
CV3032	Review & Approve Schematic Submittal	8						
CV3033	Review & Approve Schematic Submittal	PR				THE THE TANK OF TH		The second of
CV3034	Review & Approve Schematic Submittal	8				A STATE OF THE STA		The same of the sa
CV3035	Consolidate & Return Schematic Submittal Comment	8						
CV3040	Prepare Design Development Phase Submittal	AE						1
CV3041	Distribute D. D. Submittal for Review	8						
CV3047	Prepare & Submit Project Cost Analysis (DPMC-38)	8				**************************************		
CV3042	Review & Approve Design Development Submittal	4						,
CV3043	Review & Approve Design Development Submittal	A				The transmission of the control of t		
CV3044	Review & Approve Design Development Submittal	Š					A COLUMN TO THE PARTY OF THE PA	
CV3045	Consolidate & Return D.D. Submittal Comments	8						
CV3050	Prepare Final Design Phase Submittal	AE		200 Table 100 Ta	The second secon		The second of th	
CV3051	Distribute Final Design Submittal for Review	र्ड		Control of the contro	The second secon			
CV3052	Review & Approve Final Design Submittal	8		and the second s	The second secon	The second of th		and the same of th
CV3053	Review & Approve Final Design Submittal	æ						
CV3054	Review Final Design Submitl for Constructability	\$30						
NOTE	23.	DBCA - TEST		Cheef 1 of 3				
Red	Refer to section "IV Project Schedule" of the Scope of Work for contract phase durations,	Bureau of Design	Bureau of Design & Construction Services		, c	, , ,	* * * * * * * * * * * * * * * * * * *	-
		Non	nne rroject					

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Acview of Approve rinal Design Submittal	omittal	CM										ABELLES DE SELL	THE PERSON	A THE STATE OF THE
CV3056 Consolidate & Return Final Design Comments	Comments	GM	1 1/10 1/1				200 mm m 200 mm m 300 mm m 300 mm m 300 mm m 300 mm m 300 mm m 300 mm m		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100 mm	AND THE STATE OF T		
CV3060 Prepare & Submit Permit Application Documents	n Documents	AE	and and a											
CV3068 Prepare & Submit Bidding Cost Analysis (DPMC-38)	lysis (DPMC-38)	CM												
×														
CV4001 Review Constr. Documents & Secure UCC Permit	UCC Permit	æ			10 10 10 10 10 10 10 10 10 10 10 10 10 1	The second secon						The teachers and		
CV4010 Provide Funding for Construction Contracts	ntracts	CA							The sale				# 44	
CV4020 Secure Bid Clearance		δ				The transfer of the transfer o								
Advertise-Bid-Award														
CV5001 Advertise Project & Bid Construction Contracts	n Contracts	පි				*** *** *** ***			-			- 14. 14. - 14. 14.		
CV5010 Open Construction Bids		ච												
CV5011 Evaluate Bids & Prep. Recommendation for Award	tion for Award	CM							## and					7 14 44 - 14 44 - 14 44
CV5012 Evaluate Bids & Prep. Recommendation for Award	tion for Award	AE												20 00 00 20 00 00 20 00 00
CV5014 Complete Recommendation for Award	rd .	පී	The second secon									100 Mar 100 Ma		
CV3020 Award Construction Contracts/Issue NTP	NTP	වී												
Construction														
CV6000 Project Construction Start/Issue NTP		₹		The state of the s						100 ap. 0	**************************************	70 MAY 1		
CV6001 Contract Start/Contract Work (25%) Complete	Complete	CON				o de seu		m was to						
CV6002 Preconstruction Meeting		CM							* *** * *** * *** * *** * *** *** *** *** *** *** **		10 pm	70 Pro 10	Water designation	
CV6003 Begin Preconstruction Submittals		CON				*** *** *** *** *** *** *** *** *** **	en ser s	777 AND 1						
CV6004 Longest Lead Procurement Item Ordered	ared	CON									**************************************			
CV6005 Lead Time for Longest Lead Procurement Item	ment Item	CON												
CV6006 Prepare & Submit Shop Drawings		CON				martine receptor	**************************************							
CV6007 Complete Construction Submittals		CON							Attended to	*** *** ***				
CV6011 Roughing Work Start		CON				The second secon	90 10 00 00 00 00 00 00 00 00 00 00 00 00		desire m	100 100 1				o o o
CV6012 Perform Roughing Work		CON				A ST OF ST								100 mm 100 mm
CV6010 Contract Work (50%+) Complete		CON												
CV6013 Longest Lead Procurement Item Delivered	vered	CON			The other as									
CV6020 Contract Work (75%) Complete		SON								AN AN ANY	*** **** **** **** **** **** **** **** ****			
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NOTE: Refer to section "IV Project Schedule" of the Scope of Work for contract phase durations.	hedule" of the se durations.	T - Vaga		Bureau of Design & Construction Services	onstruction	ı Servic		Sheet 2 of 3		• } <u>•</u> •	•	•	•	_
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Activity							A SAME OF A SAME	
A	Description	RSpn (RSpn	Weeks					
CV6014	Roughing Work Compl	CON					THE PROPERTY OF PERSONS	
CV6021	Interior Finishes Start	NO			and grant or any			
CV6022	Install Interior Finishes	NOO						
CV6030	Contract Work to Substantial Completion	NOO						
CV6031	Substantial Completion Declared	8						
CV6075	Complete Deferred Punch List/Seasonal Activities	NOO		The second secon		The second secon		700 FF 10
CV6079	Project Construction Complete							on the same
CV6080	Close Out Construction Contracts	W C						
CV6089	Construction Contracts Complete		The second secon		AND	The state of the s		
CV6090	Close Out A/E Contract							
CV6092	Project Completion Declared	8				The same of the sa		
NOTE	Ŧ.	DBCA - TEST	Shad 2013					
Scc	Refer to section "IV Project Schedule" of the Scope of Work for contract phase durations. © Primavera Systems, Inc.	Bureau of Design & Construction Services Routine Project		EX	Exhibit"	it ".	A :	

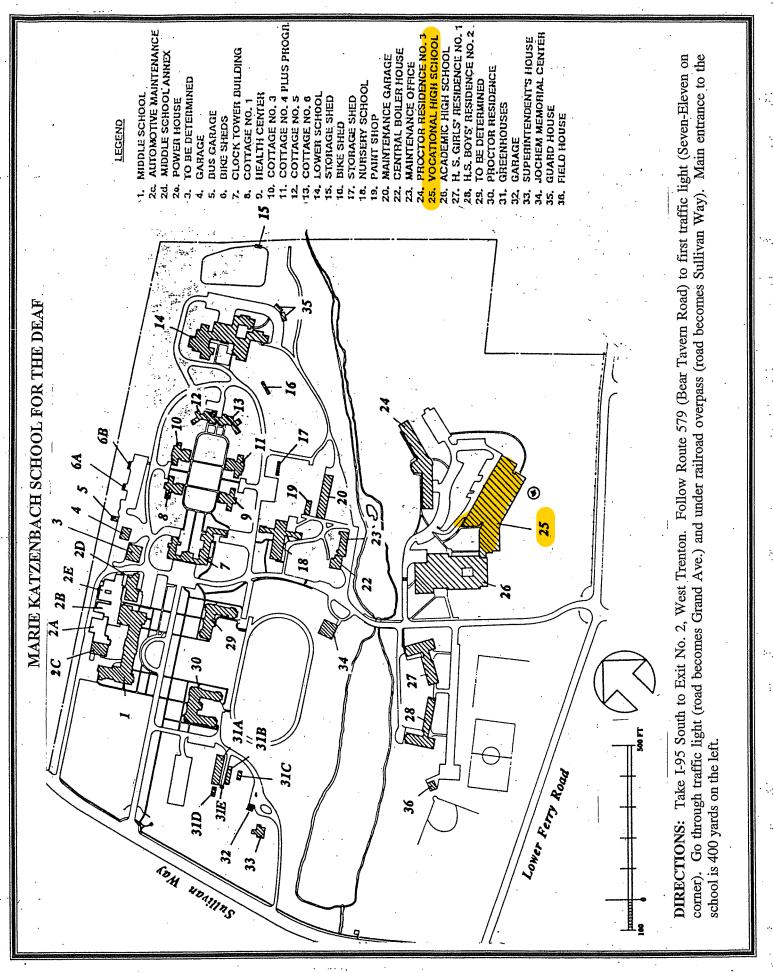
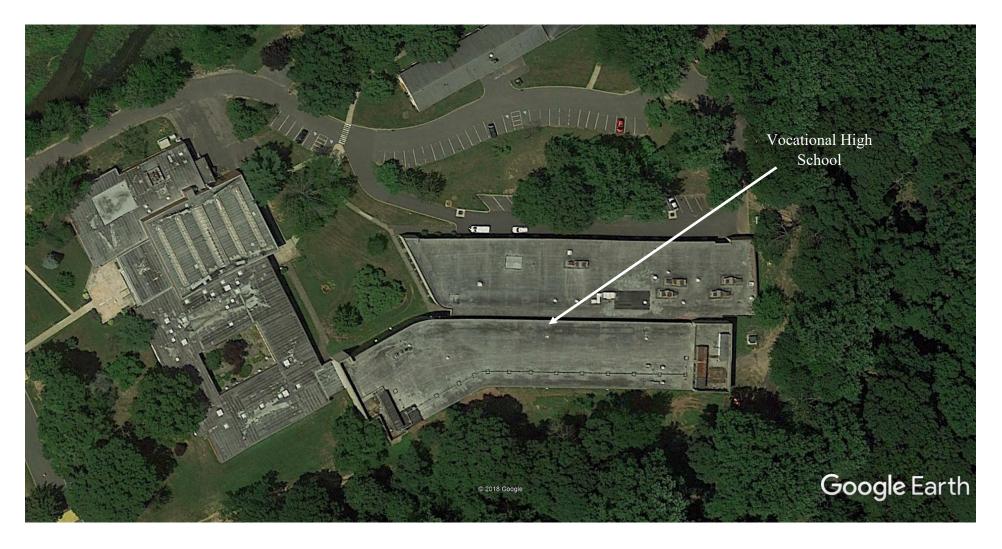


EXHIBIT 'B'



Vocational High School Marie Katzenbach School for the Deaf

EXHIBIT 'C'



Existing Building Diesel Powered Generator to be replaced.







Existing Building Diesel Powered Generator to be replaced.



Existing Vent of the Generator at rear of Building #25.



Existing Underground Diesel Fuel Storage Tank to be removed.











Existing Electric Panels.









Existing information of Existing Meters.





Existing Gas Meter/ Gas Flow Data.

Project:

AHERA Sixth Month Periodic Surveillance

ASBESTOS HAZARD EMERGENCY RESPONSE ACT (AHERA)

Client:

NJ Department of Human Services

Trenton, NJ

Job Location:

Bldg.#25 - Vocational High School

Marie Katzenbach School

320 Sullivan Way

Trenton, NJ 08625

Attention:

Allwyn Baskin

Business Administrator

Project #:

19023-02

Survey Date:

August 2019

Bldg. Inspector(s):

Mike Moore

Asbestos Building Inspector

Certification #55162 Expiration May 15, 2020

Confirmed Asbestos Containing Materials (ACM) Index

Project #:

18023-02

Client:

NJ Department of Human Services

Job Location:

Marie Katzenbach School

Building:

Bldg.#25 - Vocational High School

Homogeneous

Mat'l ID Material Type

Material Description

03

Paste - M

Paste Applied to Ends of Fiberglass Pipe Insulation

Assumed Asbestos Containing Materials (ACM) Index

Project #:

18023-02

Client:

NJ Department of Human Services

Job Location:

Marie Katzenbach School

Building:

Bldg.#25 - Vocational High School

Homogeneous

Mat'l ID

Material Type

Material Description

02

Fitting Insulation - T

Cementitious Pipe-Fitting Insulation

Non-Asbestos Containing Materials (Non-ACM) Index

Project #:

18023-02

Client:

NJ Department of Human Services

Job Location:

Marie Katzenbach School

Building: Bldg.#25 - Vocational High School

ood Location.	Watte Ratzelloach School	Bullung: Bldg.#23 - Vocational High School
Homogeneous Mat'l ID	Material Type	Material Description
01	Floor Tile - M	1' x 1' White Floor Tile with Blue Specks and Streaks / Mastic
04	Duct Collar-M	Cloth Duct Collar
05	Drywall-M	Drywall
05A	Joint Compound-M	Joint Compound to Drywall
06	Ceiling Tile-M	2' x 4' Ceiling Tile with Dots and Fissures

EC Environmental Connection Inc 120 N. Warren Street Trenton, NJ 08608 Tel. (609) 392-4200 Fax (609) 392-1216

Room Index

Project #: Job Location: 18023-02

Marie Katzenbach School

Client:

NJ Department of Human Services

Building: Bldg.#25 - Vocational High School

Room Number	Room Description
1001	Counseling - Room 101
1002	Counseling - Room 102
1003	Library
1004	Room 103
1005	Support Services Office - Room 105
1006	Secretary - Room 107
1007	Office
1008	Office - Room 111
1009	Psychologist Room
1009A	Storage
1010	Bathroom
1011	Bathroom
1012	Art Supply Room
1012A	Telephone Room
1012B	Generator Room
1012C	Bathroom
1013	Graphic Arts Classroom

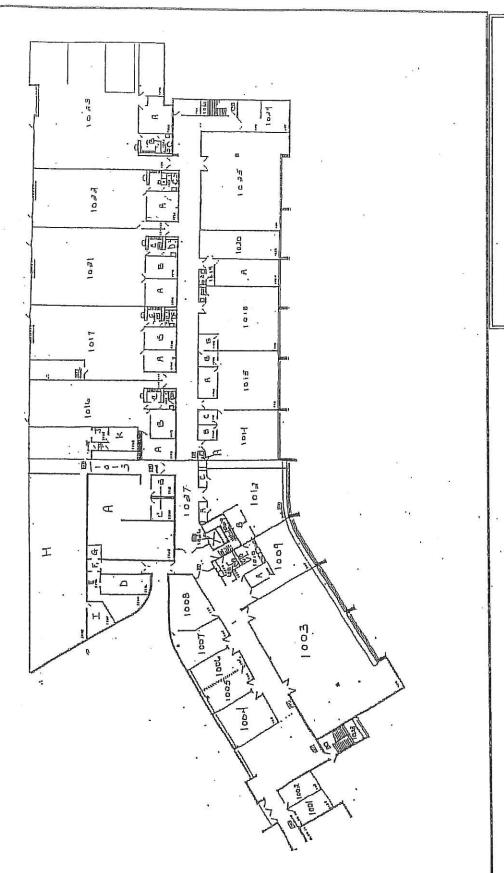
Room Number	Room Description
1013A	Work Area / Paper Storage
1013B	Women's Room
1013C	Men's Room
1013D	Photography Room
1013E	Darkroom
1013F	Foyer
1013G	Photography Room
1013Н	Printing Room
1013I	Office
1013J	Office
1013K	Storage
1014	Room 116
1014A	Bathroom
1014B	Office
1014C	Storage
1015	Drivers Education Room - Room 118
1015A	Office
1015B	Storage
1016	Robotics
1016A	Electrical Room
1016B	Office
1016C	Locker

Room Number	Room Description
1016D	Bathroom
1017	Construction Trades Room
1017A	Construction Trades Room
1017B	Construction Trades Room
1017C	Lockers
1017D	Bathroom
1018	Room 120
1018A	Bathroom
1018B	Storage
1019	Foyer - Room 122
1019A	Classroom 122
1019B	Bathroom
1020	Classroom
1021	Metal Shop
1021A	Storage
1021B	Office
1021C	Lockers
1021D	Bathroom
1022	Welding Room
1022A	Office
1022B	Locker
1022C	Bathroom

Room Number	Room Description
1023	Auto Shop - Room 125
1023A	Office
1023B	Locker
1023C	Bathroom
1024	Custodial Office / Storage
1025	Mechanical Room
1026	Elevator
1027	Corridor
1028	Stairway
1029	Stairway
1030	Stairway
2001	Cafeteria - Room 226
2001A	Electrical Closet
2001B	Bathroom
2001C	Bathroom
2002	Custodial Closet
2003	Home Economics - Room 222
2003A	Bathroom
2003B	Storage
2004	Room 220
2004A	Kitchen / Laundry
2004B	Bathroom

Room Number	Room Description
2005	Vocational Assessment - Room 218
2005A	Closet
2005B	Alcove
2005C	Bathroom
2006	Room 216
2006A	Bathroom
2007	Power Sewing - Room 212
2007A	Bathroom
2008	Bathroom
2009	Room 208
2009A	Closet
2009B	Bathroom
2010	Room 209
2011	Office
2012	Room 206
2012A	Bathroom
2013	Business Machines - Rooms 202 and 204
2013A	Bathroom
2014	Electrical Closet
2015	Bathroom
2016	Faculty Lounge - Room 201
2016A	Bathroom

Room Number	Room Description	
2016B	Bathroom	
2017	Corridor	

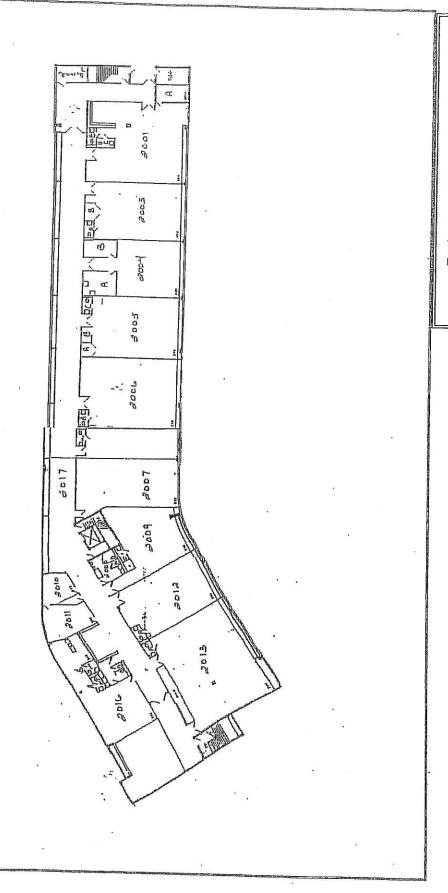


Environmental Connections Inc. 122-4 Hamilton Avenue P.O. Box 3885 Trenton NJ 08629-0885 Phone: (609)587-5656 Fax: (509)392-1216

Marie H. Katzenback School for the Deaf Bldg.#25 - Vocational High School First Floor

Figure 1

'EXHIBIT E'



Environmental Connections Inc.
1224 Hamilton Avenue
P.O. Box 3885
Trenton NJ 08629-0885
Phone: (609)587-5656
Fax: (609)392-1216

Figure 2

Marie H. Katzenback School for the Deaf

Bldg.#25 - Vocational High School

Second Floor

Page 1 of 1

Environmental Connection Inc 120 N. Warren Street Trenton, NJ 08608 Tel. (609) 392-4200 Fax (609) 392-1216

Assessment Report

vices	chool	Comment				Fiberglass					
NJ Department of Human Services Bldg.#25 - Vocational High School	Response Asbestos? Action		Yes - Assumed O&M		Yes - Assumed N/A Fil	Yes-Tested O&M		Yes - Assumed O&M		Yes - Assumed O&M	
Client:	Building:	Level of Damage		No Damage		No Damage	No Damage				No Damage
		Damage Type of Amount Unit Damage		0 LF		0 LF	0 SF		0 LF		0 LF
		Total Da Amount Ar		6		14	40		∞		∞
		Functional Space		Occupiable Space		Mechanical Space	Mechanical Space	a	Above Drop Ceiling		Above Drop Ceiling
18023-02	Marie Katzenbach School	<i>Description</i> D Material Type	S	Fitting Insulation - T	Mechanical Room	Fitting Insulation - T	Paste - M	Cafeteria - Room 226	Fitting Insulation - T	Business Machines - Rooms 202 and 204	Fitting Insulation - T
Project#:	Job Location:	Room # Room Description Homo ID Materi	1016 Robotics	02	1025 Mechani	8 F 3	8 7 L	2001 Cafeteri	20 'I	2013 Business	E'