

CONTRACT FOR HEAT PUMP DESIGNER SERVICES
(MSBA Accelerated Repair Program)

This Contract is made as of this ____ day of _____ in the year _____ between the

(Day) (Month) (Year)

_____, _____, _____, Massachusetts, _____,

(Owner) (Street) (City) (Zip Code)

hereinafter called “the Owner” and _____, _____,

(Designer) (Street)

_____, _____, _____ hereinafter called the “designer” for the

(City) (State) (Zip Code)

Designer to provide the designer services required to complete the Basic and Extra Services described herein at _____

_____.

(Name/Description of Project)

The Designer shall be compensated by the Owner for Basic Services in accordance with the Payment Schedule included as Attachment A.

Designer’s Project Architect/Engineer:

The Subconsultants to provide services, either as Basic or Extra Services, to the Designer under this contract may include the following:

	Name of Firm	Name of Principal	SDO Cert.
Structural Engineering			
Fire Protection Engineering			
Plumbing Engineering			
Mechanical / HVAC Engineering			
Geothermal Engineer			
Electrical/Lighting/			
Data/Communications			
Hazardous Materials			
Cost Estimating			
Specifications Consultant			
Sustainable/Green Design/Renewable Energy Consultant			
Code Consultant			
Accessibility/Universal Design Consultant			
Security Consultant			

IN WITNESS WHEREOF, the Owner and the Designer hereby agree to the terms of the Contract and have caused this Contract to be executed by their respective authorized officers or other authorized representatives.

OWNER

(print name)

(print title)

By _____
(signature)

Date _____

DESIGNER

(print name)

(print title)

By _____
(signature)

Date _____

TABLE OF CONTENTS

PROJECT DESCRIPTION, FEE, AND SIGNATURES

ARTICLE 1	DEFINITIONS	4
ARTICLE 2	RELATIONSHIP OF THE PARTIES.....	8
ARTICLE 3	RESPONSIBILITIES OF THE OWNER	8
ARTICLE 4	RESPONSIBILITIES OF THE DESIGNER	9
ARTICLE 5	SUBCONSULTANTS.....	14
ARTICLE 6	COMPENSATION	14
ARTICLE 7	BASIC SERVICES	17
ARTICLE 8	EXTRA SERVICES.....	40
ARTICLE 9	REIMBURSABLE EXPENSES	43
ARTICLE 10	COMPENSATION AND RESPONSIBILITY FOR CHANGE ORDERS	44
ARTICLE 11	RELEASE AND DISCHARGE	44
ARTICLE 12	ASSIGNMENT, SUSPENSION, TERMINATION, NO AWARD	44
ARTICLE 13	NOTICES.....	46
ARTICLE 14	INDEMNIFICATION	46
ARTICLE 15	INSURANCE.....	47
ARTICLE 16	OWNERSHIP OF DOCUMENTS	50
ARTICLE 17	STATUTORY REQUIREMENTS.....	51
ARTICLE 18	MISCELLANEOUS	54

ATTACHMENT A	PAYMENT SCHEDULE
ATTACHMENT B	NOT USED
ATTACHMENT C	SDO CERTIFIED ENTITIES PARTICIPATION SCHEDULE
ATTACHMENT D	LETTER OF INTERNAL CONTROL (DESIGNER)
ATTACHMENT E	LETTER FROM CPA ON INTERNAL CONTROLS
ATTACHMENT F	FORM OF DESIGNER CONTRACT AMENDMENT

ARTICLE 1: DEFINITIONS

All terms that this Contract defines may be used with or without initial capital letters. Other terms, abbreviations and references are defined as they appear herein. Words and abbreviations that are not defined in the Contract Documents, but which have recognized technical or trade meanings, are used in accordance with those meanings.

APPLICABLE LAWS – All applicable laws, statutes, ordinances, by-laws, codes, rules and regulations, of the Commonwealth of Massachusetts, its political subdivisions, and the Federal Government are applicable to the Project.

APPROVAL – A written communication from the Owner approving the work of the current Phase, as identified on Attachment A, or authorizing the Designer to proceed to the next Phase, or approving the scope and compensation for either Extra Services or Reimbursable Expenses.

AUTHORITY – Massachusetts School Building Authority or its authorized representative, created by St. 2004, c. 208.

BASIC SERVICES – The scope of services to be provided by the Designer under this Contract, unless the Contract is otherwise terminated pursuant to Article 12, as described in Article 7 of this Contract, and as it may be amended pursuant to Article 18.4.

CERTIFICATE OF FINAL COMPLETION – The certificate prepared by the Designer and approved by the Owner to the effect that the Work has reached Final Completion.

CERTIFICATE OF SUBSTANTIAL COMPLETION – The certificate prepared by the Designer and approved by the Owner to the effect that the Work has reached Substantial Completion.

CHANGE ORDER – A written instrument prepared by the Designer and signed by the Owner, Owner's Project Manager, Contractor, and Designer, stating their agreement on a change in the Construction Contract Documents, including, but not limited to, a change in the Contract Sum and/or Contract Time, and/or any other specification in the Construction Contract Documents.

COMMISSIONING CONSULTANT – A person or firm engaged by the Authority to provide building commissioning services, including advisory services during design, construction, and completion.

CONSTRUCTION CONTRACT DOCUMENTS – The Construction Contract Documents consist of the Owner-Contractor Agreement, Advertisement, Instructions to Bidders, Bidding Documents, Contract Forms, Conditions of the Contract, Drawings, Plans, Technical Specifications, all addenda issued prior to execution of the Construction Contract, and other documents approved after execution of the Owner-Contractor Agreement relating thereto.

CONTRACT – This Contract, inclusive of all Attachments, between the Owner and the Designer; all written amendments to this Contract; and all Approvals issued pursuant to this Contract.

CONTRACTOR OR GENERAL CONTRACTOR – The person or firm with whom the Owner has contracted pursuant to M.G.L. c. 149, §§ 44A-44M to perform the construction for this Project.

CONTRACTOR APPLICATION AND CERTIFICATE FOR PAYMENT – The form prescribed by the Owner which contains the Contractor's application or requisition for periodic or final payment for Work performed in accordance with the Construction Contract Documents and the Designer's certificate for payment as approved by the OPM and the Owner.

DESIGNER – The individual, corporation, partnership, sole proprietorship, joint stock company, joint venture or other entity identified as such on page one of this Contract performing architecture, landscape architecture, and/or engineering services under this Contract and which meets the qualifications set forth in M.G.L. c. 7C § 44.

DESIGNER SERVICES – The services to be performed by the Designer and its Subconsultants under this Contract, including developing and providing all data, designs, drawings, specifications, and estimates required for the Project.

DISTRICT – see "OWNER."

EXTRA SERVICES – Services requested by the Owner to be performed by the Designer, but which are additional (or "extra") to the services performed as Basic Services.

FEE FOR BASIC SERVICES – The fee to be paid to the Designer for satisfactorily performing the Basic Services required under this Contract, exclusive of the compensation to which the Designer may be entitled pursuant to Articles 8 (Extra Services) and 9 (Reimbursable Expenses).

FINAL COMPLETION – The Work has been completed in accordance with the Construction Contract Documents and the educational specifications, schematic plans and drawings, and the Project Funding Agreement approved by the Authority.

FINAL REQUEST AND CERTIFICATE FOR REIMBURSEMENT – The form prescribed by the Authority which contains the certification of the Designer, OPM, and the Owner certifying that the Project has reached Final Completion.

GENERAL LAWS – The Massachusetts General Laws as amended, including any rules, regulations, and administrative procedures implementing said laws.

GUIDELINES AND STANDARDS – Documents published by the Authority including regulations and procedures that supplement the tasks of Designers contracting with Owners for

projects receiving any funding from the Authority, as they may be amended from time to time by the Authority.

MATERIALS – The designs, drawings, project manual specifications, and other materials prepared by the Designer as defined in Article 16.1.

MBE/WBE/VBE/SDVOBE – A minority business enterprise (MBE), a women business enterprise (WBE), a veteran business (VBE), or a service-disabled veteran-owned business (SDVOBE) certified by the Supplier Diversity Office (SDO) in accordance with M.G.L. c. 7.

NOTICE TO PROCEED – The written communication issued by the Owner to the Contractor authorizing him to proceed with the construction contract and establishing the date for commencement of the contract time.

OWNER – The entity identified as such on page one of this Contract, or its authorized representative, that is the owner of the property that is the site of the Project, or has or will have exclusive control over the site for at least the duration of the useful life of the school facility that is the subject of the Project, and is responsible for administering this Contract.

OWNER-CONTRACTOR AGREEMENT or OWNER – GENERAL CONTRACTOR AGREEMENT – The contract between the Owner and one or more General Contractors and/or goods or services providers for construction of a whole or part of the Project, including approved change orders.

OWNER'S PROJECT MANAGER or OPM – The individual, corporation, partnership, sole proprietorship, joint stock company, joint venture, or other entity with whom the Owner has contracted to perform the Project Management Services for this Project, and who meets the qualifications of M.G.L. c. 149, § 44A ½ and has been approved by the Authority.

PHASE – A distinct portion of the work of this Contract and its associated duration, as identified on Attachment A. Prior Approval to proceed for each Phase is required from the Owner.

PRINCIPALS – The owner(s) and/or officer(s) of the Designer or Subconsultant who are in responsible charge of the Project.

PROJECT – All work that pertains to the study, planning, programming, design, construction, reconstruction, installation, commissioning, demolition, maintenance, and repair, if any, as described in the Project Funding Agreement.

PROJECT ARCHITECT AND/OR PROJECT ENGINEER – The individual designated by the Designer as its Project Architect or Project Engineer. Such Project Architect or Project Engineer shall be a registered architect, engineer, or landscape architect as required by the Request For Designer Services, shall be the person who shall oversee the performance of all services provided on the Project, and shall be certified in the Massachusetts Certified Public Purchasing

Official Program as administered by the Inspector General of the Commonwealth of Massachusetts.

PROJECT CONSTRUCTION BUDGET – That portion of the Total Project Budget that enumerates the cost of constructing the Project inclusive of all designed construction, demolition, and renovation work, all supportive and preparatory construction work required for the Project, the General Contractor and all subcontractors, suppliers, materials, equipment, general conditions, insurance, overhead, and profit, and all other expenditures that are ordinarily considered as construction cost allocations. The Project Construction Budget includes the design contingency, bidding contingency, and price escalation contingency, as appropriate to the phase of the Project.

PROJECT FUNDING AGREEMENT – The Project Funding Agreement described in the 963 CMR 2.02 and executed by the Authority and the Owner.

PROJECT SCHEDULE – A complete list of all activities, time, and sequence required to complete the Project, as defined in the Project Funding Agreement.

RECORD DRAWINGS – The drawings prepared by the Designer and its Subconsultants pursuant to Article 7 of this Contract which incorporate the design changes made during the construction period and which incorporate information on the marked-up prints, as-built drawings and other data furnished by the General Contractor and any subcontractors.

REIMBURSABLE EXPENSES – Costs and expenses incurred by the Designer that are reimbursable pursuant to the provisions of Article 9 of this Contract.

STANDARD OF CARE – The generally accepted professional standard of care ordinarily used by design professionals performing a similar scope of services in the same geographic area on projects of comparable size and complexity.

SUBCONSULTANT – The Subconsultants listed on page 2 of this Contract, together with any additional Subconsultants engaged by the Designer from time to time, which shall be an individual, company, firm, or business having a direct contractual relationship with the Designer, who provides services on the Project.

SUBCONTRACTOR – The person or entity having a direct contractual relationship with the Contractor, who has the contract to perform the construction of the Project, except as otherwise specifically provided or required herein or by law. Subcontractor, when used, also means “Trade Contractor” except when otherwise specified.

SUBSTANTIAL COMPLETION – The Work, as evidenced by the Certificate of Substantial Completion, is fully complete or substantially complete so that the value of the Work remaining to be done is, in the estimate of the Owner, less than one percent of the original contract price, or the Contractor substantially completes the work and the Owner takes possession for occupancy, whichever occurs first.

TOTAL PROJECT BUDGET – A complete and full enumeration of all costs of the Project, as defined in the Project Funding Agreement.

TRADE CONTRACTOR – A subcontractor having a direct contractual relationship with a Contractor to perform one or more so-called sub-bid classes of work listed in M.G.L. c.149, §44F, and any other sub-bid classes of work selected by the Owner for the Project in accordance with the provisions of either M.G.L. 149, §44F(1)(a) or M.G.L. c. 149A, §8(a).

WORK – The entire construction required to be furnished under the Construction Contract Documents. Work includes performing and furnishing any and all services, obligations, duties, responsibilities, labor, materials, equipment, temporary facilities, and incidentals necessary to complete the construction assigned to, or undertaken by the Contractor pursuant to the Construction Contract Documents.

ARTICLE 2: RELATIONSHIP OF THE PARTIES

- 2.1 The Owner's Project Manager shall act as an independent contractor of the Owner in providing certain project management services required for the Project except where the OPM is an existing public employee of the Owner as described in M.G.L. c. 149, § 44A1/2.
- 2.2 The Designer is solely responsible for providing the design for the Project and for performing in accordance with this Contract.
- 2.3 The Contractor shall be solely responsible for construction means, methods, techniques, sequences and procedures, the Contractor's schedules, and for safety precautions and programs in connection with the Project and for performing in accordance with the Owner-Contractor Agreement. The Designer shall be responsible for the Designer's negligent acts or omissions but shall not have control over or charge of acts or omissions of the Contractor, Subcontractors, or the agents or employees of the Contractor or Subcontractors, the Owner's Project Manager, the Authority or its Commissioning Consultant or other technical consultants.
- 2.4 Nothing in this Contract shall be construed as an assumption by the Designer of the responsibilities or duties of the Contractor or the Owner's Project Manager. It is the intention of the parties that the Designer's services shall be rendered in a manner compatible with and in coordination with the services provided by the Owner's Project Manager and the Commissioning Consultant. It is not intended that the services of the Designer and the Owner's Project Manager or the Commissioning Consultant be competitive or duplicative, but rather complementary. The Designer shall be entitled to rely upon the Owner's Project Manager, Commissioning Consultant, and Contractor for the proper performance of their obligations pursuant to their respective contracts with the Owner.

ARTICLE 3: RESPONSIBILITIES OF THE OWNER

- 3.1 The Owner shall have the right to approve the Designer's work.
- 3.2 The Owner shall designate an individual who shall have the authority to act on behalf of the Owner under this Contract and who shall be responsible for day-to-day communication between the Owner and the Designer.
- 3.3 Upon satisfactory completion of services performed, the Owner shall make payments to the Designer as provided in Articles 6, 7, 8, 9, 10, and 11.
- 3.4 To the extent such data is available, the Owner shall furnish to the Designer existing surveys of the site, building plans, borings, test pits, structural, mechanical, chemical, or other test data, tests for air and water pollution and for hazardous materials, photographs, reports, and utility information, including historical energy consumption data. The Designer shall be entitled to reasonably rely upon the sufficiency and accuracy of the information furnished to the Designer under this Article 3.4 and under Article 4.11, provided that the Designer shall coordinate its services with the services of the Owner's consultants and shall notify the Owner in writing of any deficiencies in such data of which the Designer becomes aware.
- 3.5 Except as otherwise provided in this Contract, or when direct communications have been specially authorized, the Owner shall endeavor to communicate with the Contractor and the Designer's consultants through the Designer about matters arising out of or relating to the Construction Contract Documents. The Owner shall promptly notify the Designer of any direct communications that may affect the Designer's services.
- 3.6 The Owner shall provide the Designer access to the Project site prior to commencement of the Work and shall obligate the Contractor to provide the Designer access to the Work wherever it is in preparation or progress.
- 3.7 If the Owner requests the Designer to execute any certificates that are not readily available as of the effective date of this Contract, the proposed language of such certificates shall be submitted to the Designer for review at least 14 days prior to the requested dates of execution. The Designer shall not be required to execute certificates or consents that would require knowledge, services, or responsibilities beyond the scope of this Contract.
- 3.8 The Owner shall deliver to the Designer in a timely manner written copies of all Approvals required by this Contract. If Approval is withheld, the Owner shall notify the Designer in a timely manner, in writing, why such Approval is being withheld.
- 3.9 The Owner shall not unreasonably withhold, delay, condition, or deny any approval, acceptance, or consent required under this Contract, including any Approval.

ARTICLE 4: RESPONSIBILITIES OF THE DESIGNER

- 4.1 The Designer shall perform the Designer Services in accordance with the requirements of this Contract, and in accordance with the Standard of Care. The Designer shall exercise due care and diligence in the rendition of all services under this Contract in accordance with such professional standards and shall exercise the Standard of Care to provide the services required under this Contract in conformity with all Applicable Laws.
- 4.2 The Designer shall be responsible for the Designer Services including any changes to such Services that may be required in accordance with this Contract. The Designer shall furnish appropriate competent professional services for each of the Phases in accordance with the Standard of Care. Any changes, corrections, additions, or deletions requested by the Owner and the Authority shall be incorporated into the design of the Project unless detailed objections thereto are issued in writing by the Designer, subject to Article 7.8.2. Nothing herein shall be construed as an assumption by the Owner or the Authority of the responsibilities or duties of the Designer.
- 4.3 The Designer Services shall be performed as expeditiously as is consistent with orderly progress of the work, consistent with the agreed upon project design schedule as established under Article 7.4.2 and as it may thereafter be amended by the parties from time to time. In the event of delays due to causes outside of the Designer's control, the project design schedule may be extended as necessary, and Designer's compensation may be equitably adjusted pursuant to Article 6.6 to the extent that Designer incurs additional direct costs caused by the delay. Time is of the essence for the duration of this Contract.
- 4.4 The Designer shall provide the scope of services required by this Contract, as described in more detail in Attachment A and B.
- 4.5 The Designer shall comply with the terms and conditions of all project agreements executed between the Owner and the Authority and any and all administrative directives issued by the Authority, now in effect or hereafter promulgated during the term of this Contract, without any additional compensation, that are applicable to Designer's Services under this Contract and that have been provided or are readily available to Designer prior to such Services being performed. The Owner shall reasonably compensate the Designer for complying with any term or condition of a project agreement executed between the Owner and the Authority or any administrative directive issued by the Authority, that was not provided to or was not readily available to the Designer prior to such Services being performed and that materially impacts the Designer's scope or other aspect of its Services, Fee, schedule, or any obligations and responsibilities under this Contract.
- 4.6 The Designer acknowledges the importance that the Owner attributes to the abilities and qualifications of the key members of the Designer's team, including Subconsultants, and the continuity of key members' participation in the services to be provided under this Contract.

This Contract has been entered into in reliance on the Designer's representation that the individuals, consultants, assignments, and responsibilities will be maintained throughout the duration of this engagement. No substitution or replacement of individuals or change in the Subconsultants, listed on page 2 of this Contract, shall take place without the prior written approval of the Owner, except when necessitated by causes beyond the Designer's control (such causes shall include if an individual leaves or is no longer associated with the Designer's firm). If the Designer proposes to replace one of the members of the Designer's team, the Designer shall propose a person or consultant with qualifications at least equal to the person or firm the Designer proposes to replace. The Owner shall have the right to approve any substitution or replacement or change in status for the persons or Subconsultants listed on page 1-2 of this Contract and such approval shall not be unreasonably withheld. At the request of the Owner, the Designer shall consult with the Owner to resolve any situation in which the Owner determines that a member of the Designer's team is failing to perform services in an acceptable manner to the Owner. The Owner shall have the right to direct the removal of any such person or consultant. The Owner shall work in good faith with the Designer to resolve any material problems identified by the Owner in writing regarding the performance of the Designer's obligations under this Contract. No act or omission of the Owner made or permitted under this Article shall relieve the Designer of its responsibility for the performance of the services specified in this Contract.

- 4.7 The Designer shall compile and distribute a job directory which includes all names, addresses, phone numbers, and e-mail addresses of the representatives of the Designer and their Subconsultants. This shall be distributed upon commencement of the services and shall be updated and redistributed as project participants and/or contact information change.
- 4.8 The Designer shall employ at all times adequate professional and support personnel with requisite expertise and adequate numbers to assure the complete, timely performance of the obligations of the Designer. The Designer shall acquaint its employees and Subconsultants with all provisions of the General Laws governing public construction projects, including but not limited to, M.G.L. c. 149, and M.G.L. c. 30, that are relevant to the performance of Designer's obligations under this Contract. When directed by the Owner, the Designer shall fully cooperate with the Owner in obtaining the Criminal Offender Record Information (CORI) of the Designer and its employees and of any Subconsultants and their employees in accordance with the provisions of M.G.L. c. 71, § 38R, M.G.L. c. 6, §§ 167-178B (the so-called CORI Law), any other applicable law, and District policy. All contracts between the Designer and each Subconsultant shall include appropriate provisions requiring the Subconsultant to fully cooperate with the Owner in obtaining the Criminal Offender Record Information (CORI) of the Subconsultant and its employees as aforesaid. Designer shall also fully cooperate with Owner in obtaining any other out-of-state criminal record information, if applicable, pursuant to relevant state or federal laws.

4.9 The Designer shall be and shall remain liable to the Owner for all damages incurred by the Owner as a result of the failure of the Designer or its Subconsultants to perform in conformance with the terms and conditions of this Contract.

4.10 Design Within the Project Construction Budget

4.10.1 The Designer shall prepare cost estimates for the Project as described in Article 7 of this Contract. The cost estimates shall be considered Basic Services and the Designer is not eligible for any additional compensation for preparing the same. The format for cost estimates shall be in accordance with the requirements of the Authority.

4.10.2 The Designer shall produce a design for the Project meeting the requirements of the scope of work incorporated within the Project Construction Budget of the Total Project Budget, as defined in Article, provided that the Designer shall be permitted to recommend to the Owner such adjustments to the Project's design, consistent with the Project Funding Agreement, as the Designer reasonably believes may be required to adhere to the Project Construction Budget. In the event the Designer's cost estimate for the Project (as reconciled in accordance with the provisions of this Contract) exceeds the Project Construction Budget, the Owner may require the Designer to revise the design, drawings, and specifications to keep the cost estimate for the Project within the Project Construction Budget. The Designer shall not be entitled to extra compensation for making such revisions to contain costs within the Project Construction Budget.

4.10.3 In a Project constructed pursuant to M.G.L. c. 149, §§ 44A-44M, if the Project Construction Budget is exceeded by the lowest bona fide, responsible bid by any amount, the Owner shall direct the Designer to review and compare the Project Construction Budget with the bids received to identify the variances. Upon completion of this review and submission of the Designer's report to the Owner and Authority, the Owner shall, with the approval of the Authority:

- (a) direct the Designer to revise the Project scope and quality as required to reduce the estimated construction costs to be within the Project Construction Budget; or
- (b) give written approval to the Designer of an increase in the Project Construction Budget; or
- (c) authorize rebidding of the Project within a reasonable time; or
- (d) terminate this Contract in accordance with Article 12.3; or
- (e) implement any other mutually accepted alternative that the Owner and the Designer may agree on.

4.10.4 (a) If the Owner chooses to proceed under Article 4.10.3(a), the Designer and its Subconsultants, without receiving additional compensation, except if fewer than three bona fide, responsible bids were received (in the case of a Project constructed pursuant to M.G.L. c. 149, §§ 44A-44M) or if 4.10.5(b) and/or (c) applies, shall cooperate in revising the designs, drawings, and specifications as may be required to reduce or modify the quality or scope or both, of the Project so that they will comply with the Project Construction Budget as approved at the conclusion of the Construction Documents Phase or as amended. Upon completion of these revisions, the Designer shall also be required to produce a revised cost estimate demonstrating that the estimated cost of the Project does not exceed the Project Construction Budget. Revising the designs, drawings, and specifications and updating the cost estimate shall be the sole obligation on the part of the Designer with respect to 4.10.3(a);

(b) If the Owner elects to proceed with revisions that significantly increase the complexity either of the Construction Contract Documents themselves or the Construction Administration Phase services that the Designer will have to provide, then the Designer shall be entitled to an equitable adjustment in its Fee to reflect the impact on its services;

(c) If the bid or proposal referenced in 4.10.3 or 4.10.4 above was submitted on a date that is more than three (3) months after approval of the Construction Contract Documents then such revisions shall be Extra Services.

4.10.5 The Designer must receive written approval of the Owner and the Authority before the Project Construction Budget shall be considered amended.

4.11 Additional Tests and Surveys: The Designer shall be responsible under Article 7 for reviewing the surveys, investigations, testing, and reports completed by the Owner and as provided under Article 3.4, and determining the types of additional or expanded surveys, investigations, or testing required for the Project. Additional or expanded surveys, investigations, or testing required for the Project shall be provided by qualified specialty Subconsultants as necessary. Both the types of services and the Subconsultants shall be approved by the Owner. See Article 8 regarding Extra Services.

4.12 Commissioning Consultant:

(a) The Authority may engage the services of a Commissioning Consultant to provide building commissioning services, including advisory services, during design, construction, and completion of the Project. Commissioning activities may start from the Schematic Design Phase and continue through preparation of construction documents, bidding, construction, close-out, and warranty period.

- (b) The Designer and its Subconsultants shall collaborate with the Authority's Commissioning Consultant to develop design criteria to support the purposes of building commissioning and energy/resources conservation concepts as commonly understood and as prescribed by the Commissioning Consultant.
- (c) The Commissioning Consultant may review and provide input on the development of the design documentation including design intent, basis of design, commissioning specifications, sequences of operation, and testing requirements as prepared by the Designer. Any changes, corrections, additions, or deletions requested by the Commissioning Consultant to which the Designer makes no objection shall be incorporated into the design of the Project as part of Basic Services.

ARTICLE 5: SUBCONSULTANTS

- 5.1 The Designer may engage Subconsultants, subject to the prior written approval of the Owner and subject to Article 9.3, in order to perform services under this Contract. If Subconsultants are engaged, the person responsible for, and in control of, the Subconsultant services to be provided must be professionally registered or licensed in Massachusetts in the necessary disciplines for the services if such registration or licensing is required under the applicable General Laws. The engagement of Subconsultants shall not in any way relieve the Designer from its duties and responsibilities for its work, including, without limitation, coordinating all Designer Services furnished under this Contract by the Subconsultants.
- 5.2 Upon request, the Designer shall provide the Owner with copies of its agreements with Subconsultants, including any amendments thereto and copies of the Subconsultant's applicable certificates of insurance.
- 5.3 No substitution of Subconsultants and no use of additional Subconsultants or assignment of services shall be made without prior written approval of the Owner, which approval shall not be unreasonably withheld.

ARTICLE 6: COMPENSATION

- 6.1 For the satisfactory performance of all services required pursuant to this Contract, excluding those services specified under Articles 8 and 9, the Designer shall be compensated by the Owner in the amounts specified in Attachment A as that Fee may be amended by written amendment to this Contract.

6.2 When the Designer receives payment from the Owner, the Designer shall promptly make payment to each Subconsultant whose work was included in the work for which such payment was received unless payment has been theretofore made. The Owner shall have the contractual right to investigate any breach of performance of a Subconsultant and to initiate corrective measures it determines are necessary and in the best interest of the Owner. All contracts between the Designer and its Subconsultants shall include a provision in which the Owner's rights to initiate corrective action shall be stipulated.

6.3 Payment Schedule:

6.3.1 Payments for Basic Services shall be made monthly and, where applicable, shall be in proportion to services performed within each Phase. The amount of fees attributable to each Phase shall be as set out in the schedule in Attachment A. Payment for approved Reimbursable Expenses and/or Extra Services shall be made monthly upon receipt of an approved invoice from the Designer.

6.3.2 The Owner shall make payments to the Designer within 30 days of the Owner's approval of an invoice from the Designer. The Owner's payment for any services provided under this Contract shall not be construed to operate as a waiver of any rights under the Contract or any cause of action arising out of performance of the Contract. The Owner shall not withhold payments to offset costs alleged to have been incurred by the Owner on account of allegedly negligent acts, errors, or omissions unless the Designer agrees or has been found liable for specific amounts in a binding agreement or court judgment, or unless the Designer fails to maintain the professional liability insurance required under Articles 15.7.1 and 15.7.2. The Owner may withhold approval of invoice items the Owner reasonably believes have not been performed in accordance with this Contract, including adjustments to payment amounts in instances where required submittals to the Authority may be found to be missing or incomplete. If Owner and Designer continue to disagree, the disagreement shall be immediately submitted to mediation in accordance with Article 18.5(b).

6.4 Installment Payments During Construction Administration Phase:

6.4.1 During the Construction Administration Phase, the Designer shall be paid the Fee for Basic Services stipulated in Attachment A.

6.4.2 Payments to the Designer during the Construction Administration Phase shall be made in equal monthly installments for the duration of the Construction Administration Phase. The amount of each payment shall be determined by dividing 95% of the fee for the Construction Administration Phase, as stipulated in Attachment A, by the number of months between the Notice to Proceed and the scheduled issuance of the Certificate of Substantial Completion, as indicated in the Project Schedule approved by the Owner. The Designer shall be entitled to Extra Services in

accordance with Article 8.3 if the Project is delayed beyond the 60-day period described in Article 8.3 for reasons beyond the control of the Designer.

6.5 Final Installment: The Designer shall be paid the unpaid balance of the fee for Completion Phase, as stipulated in Attachment A (as that fee may be amended), upon compliance with the following requirements:

- 6.5.1 Execution of the Final Request and Certificate for Reimbursement. In cases where a Certificate of Partial Release of Retainage is approved, the Designer shall be paid up to an amount commensurate with the percent of retainage released until a Final Request and Certificate for Reimbursement is approved; and
- 6.5.2 Delivery by the Designer to the Owner of the Record Drawings required by this Contract; and
- 6.5.3 Verification of payment to SDO certified Subconsultants (MBE/WBE/VBE/SDVBE) or Subconsultants identified on Attachment C and as required by Article 17.4; and
- 6.5.4 A written evaluation of the General Contractor by the Designer from which the Owner shall be able to complete its submission of the Contractor Evaluations as required by M.G.L. c.149 § 44D(7).
- 6.5.5 In the event the Designer is unable to comply with Articles 6.5.1 and 6.5.2 above due to reasons beyond the Designer's control, as determined by the Owner, Final Installment shall not be unreasonably withheld or delayed beyond 60 days after the date of Final Completion, provided that the Designer has complied with all other requirements.

6.6 Substantial Change:

- 6.6.1 If there is a substantial change in the services to be provided by the Designer under this Contract, the Designer and the Owner will mutually agree to a written amendment describing the services and an amended Fee for Basic Services to reflect the change and reasonable cost of such change. Such changes shall be designated on Attachment F and shall be executed by the Designer and the Owner.
- 6.6.2 Should the Designer and the Owner be unable to negotiate a mutually acceptable amendment to the Fee for Basic Services when there has been a substantial change in the specified services, the Owner shall unilaterally and promptly determine, in good faith and supported by a written explanation in sufficient detail, a reasonable maximum dollar amount for the services as amended and process payments to the Designer subject to said maximum amount, until an amendment to the Fee for Basic Services for such change is set by later agreement between the parties, provided that the Designer's acceptance of such payments shall not be considered a waiver by the Designer of its right to pursue a claim for additional compensation related to the change in services, and provided that such disagreement shall be immediately submitted to mediation in accordance with Article 18.5(b). In no event shall the Designer stop work under this Contract due to a disagreement with the Owner

regarding an amendment in the Designer's Fee for Basic Services, provided that the Owner complies with its payment obligations under this Article 6.6.

- 6.6.3 Notwithstanding the foregoing, the amendment to this Agreement described in Article 7.4.8 shall be negotiated and executed by both parties prior to the start of the subsequent Phase.

ARTICLE 7: BASIC SERVICES:

Basic Services include, but are not limited to, verification of existing record information including preparing measured drawings, details and general existing conditions, cost estimating, architecture, mechanical, electrical, plumbing, energy, fire protection, structural, basic environmental permitting, fire alarm, any specialty consultants for sustainable / renewable energy design (LEED-S/NE-CHPS), specifications, code compliance, accessibility/universal design, energy evaluations, detailed cost estimates, and other design and consulting services incidental and required to fulfill the project goals.

- 7.1 The Designer shall discuss with the Owner and the Authority the requirements for each Phase before beginning work on that Phase.
- 7.2 The Owner and the Authority will promptly review and approve the Designer's submittals. Upon completion of its review, the Owner shall promptly and in writing:
- (a) approve the submittal as made; or
 - (b) approve that part of the submittal that is acceptable and reject the remainder; or
 - (c) reject the submittal; or
 - (d) require the Designer to submit additional information or details in support of its submittal.
- 7.2.1 The description of Designer Services required during the various Phases as described hereinafter may include specification of the number of submittals the Designer will be required to make and estimate the approximate number of meetings that the Designer will be required to prepare for and attend during each Phase.
- 7.2.2 As a part of Basic Services, the Designer shall provide four copies of each submittal to the Owner, and one hard copy and one electronic copy of each submittal to the Authority. Drawings submitted to the Authority shall be reproduced at half full size. A graphic scale shall be placed upon all such drawings prior to construction documents phase submittals. If the Designer is required to make submittals in excess of the number specified, or if the Designer is required to prepare for and attend meetings in excess of the number specified for a Phase, the Designer shall be entitled to

compensation for Extra Services, provided, however, that the Designer shall not be entitled to such compensation if and to the extent the Owner or the Authority shall have reasonably determined that the additional submittals or the additional meetings were required due to either the Designer's lack of preparation, or other fault due to deficiencies or omissions in documents prepared by the Designer.

7.2.3 All document submittals shall be in the form of neatly bound printed material and delivered to the location or locations as indicated by the Owner and Authority. One or more document submittal components may be submitted in an approved electronic format, subject to specific authorization by the Owner and/or Authority.

7.2.4 Electronic Submittals: The Designer shall submit electronic copies on compact disks, thumb drives, or other approved electronic storage device for all required submissions of Deliverables called for by this Contract ("Electronic Submittals"). All Electronic Submittals shall be deemed to be Materials that are subject to all provisions of Article 16. The Electronic Submittals shall be provided in a format as approved by the Owner and Authority and as follows:

- (a) All drawings shall be provided in pdf format or other industry-standard format as approved by the Owner and acceptable to the Authority. Electronic file naming convention shall be acceptable to the Owner.
- (b) All other documents shall be provided in pdf format, Microsoft Word, Excel, Project, or PowerPoint, as applicable to the particular submittal.
- (c) All submittals shall be labeled identifying project name and number, file name, drawing title, software, and release. The Owner reserves the right to require the Designer to provide all electronic media as may be required at any time during the duration of this Contract due to technology upgrades and/or changes to the electronic systems used by the Owner or Authority, provided that if such requirement demands that the Designer purchase new software or train existing employees for the application of media or software such costs shall be a Reimbursable Expense but only to the extent that such purchase of new software or training of existing employees is unique or exclusive to the particular requirements of the Owner or the Authority for this particular Project.

The Designer's compliance with the terms of this Article shall be performed as part of the Basic Services under the Contract, and the Designer shall not receive any additional compensation for providing the Electronic Submittals, (including but not limited to conversions or copies of software), except as specified herein. The Designer shall not be responsible for any use of Electronic Submittals on hardware or software for which it was not intended.

- 7.2.5 In reviewing and preparing all documents for evaluation as part of the Schematic Design and/or any other design phase for which the Designer may be authorized, the Designer shall determine gross area and net areas in the following manner in order to maintain uniformity in computation and consistency of both gross and net square foot areas of buildings:

Gross Area: The area included within the outside faces of the exterior walls for all stories. Custodial areas such as janitor closets, building maintenance and building employees' locker rooms, circulation areas such as corridors, lobbies, stairs, and elevators, and mechanical areas such as those designated to house mechanical and electrical equipment, utility services, and non-private toilets shall be considered as part of the gross area, but not part of the net area.

Net Areas: In general, those areas which have a specific assignment and functional program use as determined by the facility, including, but not limited to, areas such as cafeterias, auditoriums, libraries, administrative and classrooms. These shall be measured from the inside finish of permanent outside walls to the inside finish of corridor walls, and to the inside finish of intermediate partitions.

7.3 Intentionally Omitted

7.4 Schematic Design Phase:

- 7.4.1 Upon receipt of an Approval to proceed to Schematic Design Phase, the Designer shall meet with the Owner to arrive at a mutual understanding of the requirements of the Schematic Design Phase approved in writing by the Owner and the Authority.
- 7.4.2 The Designer shall submit a proposed selected design work plan pursuant to this Contract including anticipated tasks and submittals. The Designer shall also submit to the Owner a proposed schedule modified as required by any subsequent schedule changes or delays outside of Designer's control. The schedule shall contain dates for submittals, deliverables, actions, milestones, design workshops, meetings, and the critical path through all design service activities. The work plan shall also include a presentation explaining the preliminary evaluation of proposed solutions (see Section 7.4.3) and a second presentation explaining the preferred solution during full schematic design (see Section 7.4.4). It shall include time for the Owner's and the Authority's review and approval of submittals and for necessary submissions for permits in connection with the Project. The work plan shall also include a work plan schedule of values consistent with Attachment A, which shall be the basis for which payments of the Fee for Basic Services within each Phase shall be made. The work plan schedule

of values shall identify deliverables within each Phase and percentages of the phase fee payable upon completion of such deliverable. When approved by the Owner as provided in Article 7.4.8, the work plan schedule of values shall govern the timing of payments of the Fee for Basic Services upon completion of deliverables within each Phase and as each Phase progresses.

- 7.4.3 The Designer shall conduct the following: Prepare a preliminary evaluation of proposed solutions to be studied pursuant to a process of evaluating options and their relative feasibility and cost; collect and study all available drawings, reports, maintenance reports, and other existing data pertaining to the Project; conduct a thorough on-site review of conditions relating to the Project; assure that the proposed solutions comply with all applicable codes and regulations, including any special design standards supplied by the Authority and its Commissioning Consultant; and meet with local building officials to identify and confirm applicable standards, codes, and any project specific criteria.

The preliminary evaluation of proposed solutions shall provide a comparison of three (3) or more design options and their relative feasibility and cost, including life cycle cost analysis. The preliminary evaluation shall include technical, constructability, operational, and maintenance requirements. Each option shall result in mechanical heating, cooling, and ventilation in all classrooms at minimum.

- 7.4.4. The Designer shall develop the **preferred solution** to a full schematic design level. Schematic design level documentation shall incorporate Owner and Authority comments and shall include each of the following:
- (a) Site Survey(s) and Environmental Assessment(s) – review the Site Survey(s) and Environmental Assessment(s) described in Article 3.4 and make any recommendations as may be required to complete the project site design.
 - (b) Code Analysis - determine the impact of all applicable federal, state, regional, and local codes, regulations, and ordinances, including a listing of permitting and other regulatory filing requirements. Develop design criteria and a written report to assure compliance with the Massachusetts Stretch Energy Code and the International Energy Conservation Code. Demonstrate compliance with technical criteria as applicable for Project work scope.

- (c) Utility Analysis - based on a review of the information provided in the Site Survey, determine the availability and capacity of all required building utilities.
- (d) Specific to roof projects, narrative shall address utility impacts resulting from making the roof solar ready.
- (e) Building Information Modeling - creation of a Building Information Model and quality control documents.
- (f) Accessibility - an analysis of the design's compliance with the Americans with Disabilities Act (ADA) and the Massachusetts Architectural Access Board requirements (MAAB).
- (g) Building Systems Descriptions - describe in narrative and on schematic plans basic information relative to:
 - 1. Building Structure - a written narrative of the design approach for any proposed changes and/or modifications to the structural systems including discussion of the feasible options for new work and equipment loads.
 - 2. Specific to roof projects – narrative shall address structural impacts resulting from making the roof solar ready.
 - 3. Mechanical/HVAC, Electrical and Plumbing - written narratives of the basic systems and proposed energy source(s) and a life cycle cost analysis pursuant to the criteria of M.G.L. c. 149 § 44(m). Describe sustainable design features and a plan for implementation or inclusion of any appropriate public utility energy conservation design programs. Provide schematic plans indicating basic distribution concepts and the location of major equipment items such as boilers, heat pumps, water heaters, cooling towers, chillers, air handling units, heat recovery units, exhaust stacks, building automation systems / building management systems, and special systems (e.g. fume exhausts, existing geothermal or test wells).
 - 4. Fire Protection - written narratives of the basic systems and design criteria. Provide schematic plans indicating basic distribution concepts and the location of major equipment items such as fire pumps, standpipes, and fire department connections.
 - 5. Electrical (including power, lighting, communications, fire alarm, and solar readiness) - written narratives of the proposed electrical systems resources, needs, and proposed scope including changes

required to make the roof solar ready. Provide schematic plans indicating basic distribution concepts and the location of major equipment items such as switchgear, standby generator, and control centers/panels.

6. Roof Restoration - For roof projects, written narrative describing the viability, design criteria, and cost effectiveness for roof restoration in lieu of full replacement of existing roof system.

(h) Outline / Summary Level specifications in accordance with applicable CSI Divisions that clearly define the scope of construction, identify the sub-trades pursuant to M.G.L. c. 149 § 44F, establish the quality of materials, finishes, products, equipment, and workmanship, and the special or unique conditions of construction.

(i) Project Schedule - provide a reasonable level of design-related input to the OPM such that the OPM can prepare a draft schedule for the proposed project for the Owner in the form of a graphic representation (Gantt Chart) of the duration of all tasks, activities, and phases of the design and construction processes against the progression of time up to a proposed occupancy date. Dependencies between activities and tasks will be delineated. Individual tasks and activities will be rolled up to the major project milestones. Provide input to the OPM regarding priority actions and activities that may have a major impact on the schedule. The OPM, not the Designer, is responsible for preparing and maintaining the draft and updated project schedule document, except as it pertains to the project design schedule developed under Article 7.4.2.

(j) Construction cost estimate - in CSI Master Format 6-digit format with aggregated unit rates and quantities supporting each item and the CSI MasterSpec format to Summary Level. If independent cost estimates are prepared for the Owner by the OPM in this or subsequent phases, then the Designer shall work with the OPM to resolve such any differences in a cost reconciliation process and shall involve any relevant parties in such process.

7.4.5 Schematic Design phase drawings, specifications, construction cost estimates and other submittals shall be subject to the written Approval of the Owner, which Approval shall not be unreasonably delayed, withheld, conditioned, or denied. Unless a lesser number is requested by the Owner, the Designer shall submit to the Owner for approval four (4) copies of schematic design drawings, specifications, cost estimates, and other submittals. One (1) additional copy shall be submitted to the Authority by

the Designer. One (1) additional electronic copy shall be submitted to the Commissioning Consultant by the Designer.

- 7.4.6 The Designer shall present and explain the Schematic Design's preferred solution to the Owner, the OPM, the Authority, and at a local public meeting, if any such meeting is scheduled, or in conference.
- 7.4.7 The Designer shall meet with the Owner during the Schematic Design Phase in accordance with the agreed upon project work plan.
- 7.4.8 Prior to the issuance of an Approval to proceed to the Construction Document Phase, the Designer and the Owner shall meet to finalize the design work plan, project schedule, and schedule of values described in Article 7.4.2. If necessary, they shall execute an amendment to the Contract to include all required modifications to govern the subsequent phases of the Designer's services.

7.5 Intentionally Omitted

7.6 Construction Documents Phase: Upon receipt of an Approval to proceed with the Construction Documents Phase of the Project from the Owner, the Designer shall do the following:

- 7.6.1 The Designer shall meet regularly and, as necessary, with the Owner, the Authority, the OPM, and the Commissioning Consultant. This shall include meeting in accordance with the agreed-upon project work plan (or more frequently if needed) with the Owner and the OPM during this Phase.
- 7.6.2 Based on the submittals approved in the Schematic Design Phase of the Project, the Designer shall update and refine the items previously submitted and shall submit the following on or before the date and time specified in the Project Schedule:
 - (a) Construction documents progress submittals as follows:
 - 1. 60% Construction Documents Submittal, with deliverables as defined in Article 7.6.3;
 - 2. Final Construction Documents Submittal, with deliverables as defined in Article 7.6.4
 - (b) As a part of each of the submittals required under Articles 7.6.3 and 7.6.5, an updated work plan and recommended updates for incorporation into the Project Schedule by the OPM;
 - (c) As part of each of the submittals required under Articles 7.6.3 and 7.6.5, a report on the status of applicable environmental, zoning, planning, building code, and

ADA/MAAB approvals and permitting processes, and a certified list of all required testing and all required permits identified in 7.5.2(a).

- (d) All submittals by the Designer shall be subject to the written approval of the Owner, which approval shall not be unreasonably delayed, withheld, conditioned, or denied. Unless a lesser number is requested by the Owner or is specifically provided hereinafter, the Designer shall furnish to the Owner for approval four (4) sets of the drawings, specifications, construction cost estimates, and all other submittals. Unless a lesser number is specifically provided hereinafter, the Designer shall furnish one (1) set to the Authority and one (1) set to the Commissioning Consultant of said drawings, specifications, construction cost estimates, and all other submittals. The Designer shall also furnish electronic media copies of the foregoing drawings and documents to the Owner and the Authority in such form as may be required by the Owner and Authority.
- (e) As part of each of the submittals required under Articles 7.6.3, 7.6.4, and 7.6.5, an updated work plan and recommended updates for incorporation into the Project Schedule by the OPM.

7.6.3 60 Percent Construction Documents Submittal:

- (a) The Designer shall provide, on or before the date and time specified in the Project Schedule, a 60 % Construction Documents Submittal (60% CD Submittal), which shall include:
 - 1. Construction Documents and other deliverables, as defined in this Article 7.6.3 and as further defined in Articles 7.6.2, 7.6.7, 7.6.8, and 7.6.9, advanced to a level of intermediate (60 percent) completion and incorporating corrections to indicate compliance with Owner and Authority review comments related to prior submittals.
 - 2. A written summary comparing the 60% Construction Document drawings, specifications, and estimated construction cost with the submittal made during the Schematic Design Phase, explaining any significant deviations.
 - 3. The Basis of Design that accompanied the Outline Specifications in the Schematic Design Phase shall be updated and expanded to include all proposed architectural, structural, fire protection, plumbing, mechanical, solar readiness, and electrical design concepts for the Project.
 - 4. Keying of graphics shall be sufficient to allow a reviewer to navigate through the set easily.
 - 5. A list of all drawings related to the Project.

6. Large scale plans of all mechanical and electrical spaces with major equipment indicated when impacted by the work.
 7. Project Manual, in CSI Master Format (full-length, current version), including all sections to be included in final technical specifications, developed to include a list of all materials in the building with their manufacturers. Identify all specifications sections which need to be filed sub-bid.
 8. Identify all proposed bid alternates by inclusion in a project manual section titled "Alternates." Alternates shall be listed in sequence as approved by the Owner. Work required under bid alternates shall be described and/or drawn, as appropriate, to clearly define the design criteria and extent of work involved for implementation of the bid alternate. In each instance, the existing conditions and/or new design criteria for base bid work shall also be described and indicated in documents.
 9. Code analysis: Provide a building code analysis. Any deviation from methods of compliance described in earlier submittals shall be indicated. The Code analysis shall identify its preparer, code edition referenced, and include a comprehensive description of operative building code provisions.
- (b) As a requirement of the 60% CD Submittal, and in accordance with the provisions of this Article 7.6.3 and Article 7.6.9, the Designer shall provide a construction cost estimate prepared using the CSI MasterFormat 6-digit format to Level 3 and MGL c.149 §44F (filed sub-bid) format, including quantities of all materials and unit prices of labor, equipment, and materials, as well as a cost estimate for each item of work, for review by the Owner and the Authority. The estimated cost shall be projected to the mid-point of the construction period. The development of said construction cost estimate shall under no circumstances delay the timely submission of the remainder of the 60% CD Submittal.

7.6.4 Final Construction Documents Submittal:

- (a) The Designer shall provide, on or before the date and time specified in the Project Schedule, a Final Construction Documents Submittal, which shall include:
 1. Construction documents and other deliverables as defined in this Article 7.6.5 and as further defined in Articles 7.6.2, 7.6.7., 7.6.8, and 7.6.9, advanced to a level of final (100 percent) completion, and incorporating corrections to indicate compliance with Owner review comments related to prior submittals.
 2. Complete construction drawings and specifications, certified by the Designer as having satisfied the firm's quality control review process as previously confirmed with the Owner, in sufficient detail to permit fixed-price bids in open competition for construction of the Project when documents have been approved for issuance for bidding.

3. No later than at the 100 percent stage of completion of the final drawings and specifications, two (2) sets of the final drawings and specifications that shall be provided to the local building official to be signed and stamped “Approved” by the local building official; two (2) sets of plumbing drawings and specifications that shall be provided to the local plumbing inspector to be signed and stamped “Approved” by the local plumbing inspector; two (2) sets of the fire protection, HVAC, and electrical construction documents that shall be provided to the local fire official to be signed and stamped “Approved” by the local fire official; two (2) sets of the electrical construction documents that shall be provided to the local electrical inspector to be signed and stamped “Approved” by the local electrical inspector. Notwithstanding the foregoing, the Owner acknowledges that building officials, department inspectors, and fire officials have varying policies on approvals and submittal procedures, and the only obligation of the Designer in this regard is to promptly make the submittals described herein and assist the Owner in receiving the approvals to the extent available.
4. At the 100 percent stage of completion of final drawings and specifications, a written summary comparing the final construction drawings and specifications and final estimated construction cost with the submittals made during the Schematic Design Phase and earlier in the Construction Documents Phase, explaining any significant deviations.
5. A certification that all applicable local, state, and utility officials have been contacted by the Designer regarding each utility connection and that the persons responsible for permits or connection approval have agreed to the systems' use.
6. From the construction drawings and specifications approved by the Owner, incorporating such changes as the Owner or the Authority requires, a set of reproducible black and white drawings and original specifications on high quality white bond paper, single-sided, properly packaged, suitable for reproduction, stamped and signed by all disciplines, that shall be prepared by the Designer and transmitted to the Owner; which documents shall become the property of the Owner as provided under Article 16. Other suitable reproducible media, having the same content shall be substituted, when so directed or authorized by the Owner.
7. Upon receipt of Owner authorization to advance to reproduction of the approved documents for distribution to bidders and, upon reproduction thereof, the Designer shall promptly submit complete sets of bid documents to the Owner (two sets), the Authority (one set - half size for Drawings) and the Commissioning Consultant (one set). Any subsequent addenda shall be promptly submitted to the Owner and the Authority.

7.6.5 Drawing Requirements:

- (a) The documents prepared during the Construction Documents Phase shall set forth the requirements for construction of the Project to a level of detail that is customary and standard and shall include, but not be limited to:
1. General information showing drawing index, symbols, abbreviations, notes, locations map.
 2. Site drawings shall be complete to define the extent and detail of site work. Show the following:
 - a. Layout and location of all proposed work including buildings, structures, retaining walls, parking, walls, geothermal wells, and all other site improvements, with details.
 - b. Contract Limit Line and Storage Area for construction materials.
 - c. All existing foundations, obstructions, and other physical characteristics of the site which may affect the construction work.
 3. Demolition drawings and temporary work required.
 4. Architectural drawings to display the Work shall include at a minimum:
 - a. Floor plans of each floor, including basement and lofts or attic with room and corridors, column locations, mechanical and electrical openings, door and window designations.
 - b. Large scale floor plans, as required, to illustrate detailed requirements of rooms.
 - c. Roof plans showing openings, drainage, slopes, expansion joints, and all projections, including equipment.
 - d. Key plans on all floor plans and section drawings, where appropriate.
 - e. Building elevations; all building elevations shall be fully developed and hidden elevations shall be shown. Elevations shall be shown in a sequence as unfolded from a certain point.
 - f. Exterior details, for roofing, flashing, expansion control, construction joints, water stops, and other details showing all conditions both vertical and horizontal, including schedules.
 - g. Door, window, entrance, and storefront schedules and details.
 - h. Reflected ceiling plans coordinated with fire protection, mechanical and electrical drawings, and ceiling details.
 - i. Schedules, where impacted (clearly define new or existing):

- i. Doors
- ii. Equipment, e.g. for services
- iii. Partitions
- iv. Finishes

5. Structural drawings shall indicate the following:

- a. Floor and roof plans of structural systems including framing, grades of finished floors and depressed areas, with locations and dimensions for all openings. Also indicate design floor loads and indicate proposed areas for solar panels to make the roof solar-ready.
- b. Complete details and sections with dimensions for all construction including expansion and construction joints, reinforcing, and other embedded items.
- c. Schedules (with dimensions) for all lintels, beams, joists, and columns.
- d. Unless detailed on the Drawings, the following information shall appear in the general notes: class and 28-day strength of concrete for each portion, structural steel and concrete reinforcing design stresses for each type of structural member, concrete cover for each type of structural member, shrinkage and temperature steel requirements, reinforcing laps for main reinforcing and temperature steel; bendpoint, cutoff, and hook locations for all members, minimum beam and lintel bearing. Reinforcing steel fabrication shall be in accordance with most recent ACI, "Manual of Standard Practice for Detailing Reinforced Concrete." Structural steel fabrication shall be in accordance with the AISC "Manual of Steel Construction."

6. Fire protection drawings shall indicate standpipe systems, sprinkler systems, suppression systems, access panels, fire pumps, accessories, and piping. All piping, equipment, fixtures, and devices shall be located and sized. Design criteria shall be provided on the drawings in accordance with NFPA requirements.

- a. Fire protection work, other than site work, shall not be combined on the same sheets with the Plumbing, HVAC, Electrical, or other drawings, except with the prior approval of the Owner.

7. Plumbing drawings shall indicate the following:

- a. All work done by the Plumbing Subcontractor, which includes all water, gas, sanitary and storm wastes, and accessories.

- b. Plumbing work, other than site work, shall not be combined on the same sheets with the Fire Protection, HVAC, Electrical, or other drawings except with the prior approval of the Owner.
- c. Trapping and venting of all plumbing fixtures, including floor drains.
- d. Water and gas supply sources, storm and sanitary discharge mains.
- e. All piping shall be carefully sized, and all sizes shall be indicated on drawings and riser diagrams. Indicate all directions of flow and pitch on piping.
- f. All accessories, valves, and fixtures, including all drinking fountains, grease traps for kitchen waste, and all necessary panels, identified as to type and size.
- g. All piping and connections required for other trades (e.g., kitchen equipment, HVAC make-up water, etc.).
- h. Plumbing Legend and/or graphical symbols on the first sheet of the Plumbing Drawings in accordance with the American National Standards Institute (ANSI).
- i. Plumbing riser diagrams for structures two or more stories in height above the ground level.
- j. Domestic water booster pumps, boiler feed water, meter location, hose bibbs, and wall hydrants.
- k. Domestic hot water: storage tanks, piping material, hanger details.
- l. All required access panels shall be indicated.
- m. Backflow preventors and cleanouts. Verify that access and clearance provisions for periodically inspected devices, including backflow prevention, are adequate to satisfy requirements of inspecting agencies.

8. Heating, Ventilating and Air Conditioning Drawings shall indicate the following:

- a. HVAC work, other than site work, shall not be combined on the same sheets with Fire Protection, Plumbing, Electrical, or other drawings, except with the prior approval of the Owner.
- b. All piping and ductwork systems shall be located and sized. All ductwork shall be shown double line.
- c. All systems shall be sized at all reductions and riser diagrams of piping and duct systems shall be indicated.

- d. All directions of flow and pitch on piping, and direction of flow, volumes for duct systems shall be indicated.
- e. All equipment shall have sufficient servicing and/or replacement space indicated on drawings.
- f. All equipment, accessories, valves, and dampers with all necessary access panels, identified as to type and size. Access panels, where required for access to valves and dampers, shall be indicated on drawings.
- g. Cooling system pumps, chillers, cooling towers, air handling units, heat pumps, ductwork system and dampers, fan details, temperature control system, air and hydronic balancing equipment, and schedules shall be indicated.
- h. Cooling tower design shall be indicated on the drawings showing site location, elevations, and floor plan of equipment layout and typical flow diagram as related to the total HVAC system.
- i. All fire and smoke dampers, access panels, and doors.
- j. Mechanical room designs:
 - i. Vent pipes for safety valves, relief valves, back pressure valves, and tanks shall be extended above flat roofs in accordance with all governing authorities.
 - ii. In all designs for boiler and refrigeration plants, include a complete floor plan indicating location of all major mechanical equipment and sufficient service space.
 - iii. In designs of new and/or replacement boiler and refrigeration plants, provide a flow diagram detailing steam or hot water distribution systems, return systems, including all existing equipment and their function, as well as any proposed expansions with all necessary instrumentation and controls.

9. Electrical Drawings shall indicate the following:

- a. Site utilities shall be indicated on separate electrical site drawings unless ample space is available on common site for utility drawings.
- b. Electrical work, other than site work, shall not be combined on the same sheets with Fire Protection, Plumbing, HVAC, or other drawings, except with the prior approval of the Owner.

- c. General arrangement: Outline layout of each floor. Typical sections through the structure shall be indicated when necessary to define requirements, floor and ceiling heights, elevations, and type construction, including concrete pads, shall be indicated. Indicate interface with other systems. Identify any work by general contractor or other trades.
- d. Interior lighting system: Light fixture schedules, circuiting location and mounting heights of all fixtures, receptacle and switch outlets, sizes and types of all lamps, conduits, all other accessories and riser diagrams shall be indicated on drawings. Indicate details and method of supporting electrical fixtures and conduits. Designer shall specify that all electrical lighting fixtures be supported from the building structure, and shall be independent of ducts, pipes, ceilings, and their supporting members comply with seismic design criteria.
- e. Power system: locations, types, and method of control for all motors, heaters, solar panels, appliances, controllers, starters, branch circuits, feeder conductors, conduits, and solar panels. Indicate riser diagrams. Show details and indicate method of supporting electrical conduit. For larger projects, thermostats and control wiring are normally covered under the HVAC sub-contract, assure coordination.
- f. Fire Alarm, Data, Communications, CATV/CCTV Systems: Locations and types of all devices, outlets and equipment, service connections, wiring diagrams, and all other essential details.
- g. Services: Location and details of all services, whether overhead or underground, feeder sizes, plans and elevations of switchgear and transformers, metering and service switchboard arrangements, wiring and ground fault diagram, and bus ducts.
- h. General and sub-stations: Location, size, method of connection and protection of all generators, transformers, exciters, motor generators, switch gear, and associated equipment, current characteristics, and equipment capacities. Indicate equipment connections by means of one line and/on wiring diagrams and schedule all major items of equipment and all instruments.
- i. Underground work: Shall include specifying (1) the size and locations of manholes, (2) types of cables, (3) numbers, sizes, and locations of ducts, (4) locations, sizes, and types of cable supports, fireproofing, duct line profile, and (5) one line diagram of connections.
- j. Pole line work: If required as contract work, indicate location, length, treatment, and class of poles, guying, cross arms, insulators, circuiting,

transformers, protective and switching devices, lightning arresters, special structures, diagrams, current characteristics, and grounding.

- k. Exterior lighting: Location, size, and type of transformers, luminary, poles, light standards, cables, ducts, and manholes, details of control equipment and connection diagrams.
- l. Emergency system details include transfer switch, type of fuel.
- m. One line diagram indicating load KVA, and available short circuit amperes at each transformer, switchboard, distribution panel board, branch circuit panel board, and at major pieces of equipment.
- n. Riser diagrams for all systems.

7.6.6 Project Manual Requirements

- (a) The format for the Project Manual, including its technical specifications, shall be in accordance with the current CSI MasterFormat with separate sections for each of class of work required by M.G.L. c. 149 §44F.
- (b) The following general information applies to the development of final Specifications:
 - 1. Describe the extent of the work, the materials and workmanship, and include the work under the proper section. If any portion of the work included in a section of the Specifications is to be performed by a trade covered by another section, there shall be clear and distinct cross-referencing between the sections. Merely to state “by others” is not acceptable.
 - 2. For each item of material or equipment, the specifications shall provide for a minimum of three named brands of material or equipment and the words “or equal” or a description of material or equipment which can be met by a minimum of three manufacturers or producers, and the words “or equal.” Proprietary products shall not be specified except as provided by M.G.L. c. 30, § 39M; however, when they are specified, proprietary specifications are subject to the “or equal” provisions of M.G.L. c.30, § 39M.
 - 3. Specify materials mined or manufactured in Massachusetts first and the United States of America second whenever possible.
 - 4. Do not use general clauses intended to be all-inclusive lieu of complete descriptions.

5. Do not duplicate standard requirements that are contained in the contract form.
6. Use consistency throughout. The word “will” shall be used to designate what the Owner, Authority, Owner’s Project Manager, Commissioning Consultant, or the Designer can be expected to do, and the word “shall” shall be used to designate what is mandatory for the Contractor or subcontractors to do.
7. Use the same term throughout for the same subject and the term shall be the same as that used on the drawings.
8. Do not use the term “etc.”
9. Avoid terms as “to the satisfaction of the Designer,” “as directed by the Designer,” “as approved,” and “as required.”
10. Specify work in appropriate Sections according to local trade jurisdiction.

11. Avoid the use of the following symbols:

<u>Symbol</u>	<u>Use Instead</u>
#	number, no., or pounds
%	Percent
“	inch or in.
X	by
‘	feet or ft.
o	degree
/	per or at

12. In sections for which filed sub-bids are required, refrain from using such terms as “the Contractor,” the “Heating Contractor,” or “the Plumbing Contractor,” but where necessary for clarity refer to the “HVAC Subcontractor,” the “General Contractor” and the like.

13. Do not give numbers both in words and figures. Numbers less than 10 shall be written in words, 10 and higher numbers shall be written in figures. In expressing dimensions, figures such as 2 in., 16 in., 7 ft., 6 in., shall be used.
14. Each filed sub-bid section shall detail all labor and materials required by the particular sub-trade and list, by number, those drawings (and only those drawings) indicating the work of that sub-trade. In addition, list drawings indicating the work of a particular trade that appears on drawings that are not customarily included in the work of the trade, when applicable.
15. Do not specify that a product or system shall require prequalification or advance approval for use prior to bidding.
16. Established unit price items shall be used for work categories which cannot be ascertained for exact quantities in bid documents (e.g. earthwork removal and/or replacement items). In such cases, the Designer shall establish ranges of quantities with associated unit price values for each range. Unit price values shall be established for added work, for deleted work, and for base bid quantities when conditions so-suggest. Unit price values shall be ascertained through consultation with cost estimators, be current, equitable, and well defined as to elements of work, overhead, like issues to be encompassed. Established unit prices shall be published within the applicable technical specification sections and referenced from general conditions as being operative as the basis for determining values to be used for payment or recovery for change order work.
17. Staging, scaffolding, cutting, and patching, refuse collection and disposal, demolition work and cleaning task, allocation policy, and proposed language shall be carefully assigned to avoid duplication or omission.
18. A final draft of Project Advertisement, Notice to Bidders, Instructions to Bidders, Contract Forms, General Conditions, Supplementary General Conditions, and other “front end” documents shall be included in the 90% construction documents submittal, along with a final version of all text to appear in Division 1, General Requirements. The Designer may defer insertion of final advertising / bid dates and wage rates, understanding that they are to be established and inserted immediately prior to release of documents for bidding.

7.6.7 Construction Cost Estimate Requirements:

The Designer shall provide the construction cost estimates described in Article 7, in accordance with the following provisions:

- (a) The Designer shall review its construction cost estimate in comparison with the detailed construction cost estimate, and any updated cost estimates, provided by the OPM, and shall work in good faith and in cooperation and coordination with the OPM to reconcile any differences between the cost estimates, to clarify assumptions upon which the cost estimates are based, and to address any concerns or questions with the cost estimates that are raised by the Owner, the OPM, or the Authority. If the Designer is unable to reconcile all differences between the two construction cost estimates with the OPM, then the Designer shall provide a detailed explanation of the differences to the Owner and the Authority. If, in any case, the agreed-upon, reconciled construction cost estimate exceeds the Project Construction Budget, the Designer shall cooperate with the Owner and the OPM in identifying, specifying, and recommending changes in materials, equipment, component systems, and types of construction, or other adjustments in the scope or materials selections for the Project, including contingencies or alternative bid items, so as to facilitate revision of the design of the Project to reduce the cost of construction so as to comply with the Project Construction Budget.
- (b) Cost estimate data shall be organized to identify elements of project work which may be proposed to be advanced under separate construction phases and/or separate bidding packages. When so proposed, estimates shall develop cost data relative to corresponding bidding and work execution dates established in project schedules.
- (c) Cost estimates shall be projected to the mid-point of the construction period.
- (d) The summary sheets shall contain the following:
 - 1. The date that the estimate was prepared. (Value Date)
 - 2. The anticipated bid date.
 - 3. The project and contract number.
 - 4. The title and location of the project.
 - 5. The name of the Designer
 - 6. The name of the Estimator.
 - 7. The site work cost (including all utilities).
 - 8. The building cost (including fixed equipment).
 - 9. The estimated construction cost of each Phase of the work, totaled.

- 7.6.8 The Designer shall participate in a final review of the Construction Documents with the Owner, the OPM, and the Commissioning Consultant, and the Designer shall incorporate such changes, as necessary, to satisfy the Owner's review comments.

7.7 Bidding Phase:

- 7.7.1 The Designer shall, when authorized by the Owner, prepare for reproduction and distribution the construction bid documents, including advertisements, for receipt of proposals from construction contractors, and for execution of the Owner-Contractor Agreement. The Designer shall prepare all addenda (to include bidder questions and Designer responses), subject to the Approval of the Owner and the Authority. The Designer shall attend the pre-bid conference if one is scheduled, taking note of all questions asked. Relevant questions submitted in writing shall be answered by the Designer by means of written addenda to the bid documents as required. The Designer shall attend each bid opening and, with the assistance of the OPM, conduct a review of the qualifications of the low filed sub-bidders and general bidder (and of other bidders if necessary) and shall, within five working days of the respective bid opening dates, advise the Owner in writing of the Designer's opinions as to the sub-bidders' bids and as to which general bidder is the responsible and eligible bidder that has submitted the lowest bid.
- 7.7.2 The Designer shall assist the Owner in the prequalification of prime contractors and subcontractors in the filed sub-bidder or trade contractor scopes of work pursuant to M.G.L. c. 149, §§44D½ and 44D¾, including participation as a member of the Owner's Prequalification Committee.
- 7.7.3 The Designer shall receive all inquiries relating to the bid documents and, when necessary, answer questions by preparing and issuing written addenda. The Owner shall review and approve all such addenda prior to issuance to bidders.
- 7.7.4 When sub-bids are required:
- (a) Attend sub-bid openings.
 - (b) Assist in reviewing sub-bids with the Owner for completeness and accuracy.
 - (c) Assess sub-bid amounts relative to cost estimates.
 - (d) Assist in checking references of sub-bidders and make written recommendations as to their qualifications, only required for projects in which pre-qualification has not occurred.
 - (e) Issue a letter of recommendation to Owner upon acceptance of sub-bids, identify any categories to be re-bid and reason(s) therefor.

- (f) Prepare and distribute the filed sub-bid tabulation to all prospective bidders. The tabulation shall be reviewed and approved by the Owner prior to its issuance to bidders.
- 7.7.5 Unless otherwise directed by the Owner, attend and conduct the general bid opening.
- 7.7.6 Review with the Owner and the OPM's general bids for completeness and accuracy.
- 7.7.7 Review bidder responses for alternates and make written recommendations as to their acceptance.
- 7.7.8 If the Project must be re-bid because of a defect in the bid documents prepared by the Designer, or in procedures proposed by the Designer, the Designer shall correct the defect and take the necessary actions for re-bidding the Project on proper bid documents without any additional compensation to the Designer.
- 7.7.9 If within three (3) months after approval of Construction Contract Documents, in final form, the bids of the lowest responsible and eligible bidders or negotiated proposals exceed the approved Project Construction Budget, the provisions of Article 4.10 shall apply.
- 7.7.10 If the Owner awards a construction contract for an amount that exceeds the amount established in the Project Construction Budget, such an award will not affect the Fee for Basic Services.
- 7.8 Construction Administration Phase – Obligations During Construction:
 - 7.8.1 Upon commencement of construction activities for the Work or early bid packages or at times established in Project schedules, the Designer shall:
 - (a) Furnish the General Contractor with information for establishing lines and grades and such supplemental drawings as are reasonably needed to implement the intent of the Construction Contract Documents;
 - (b) With reasonable promptness, and in accordance with schedules agreed upon by the Designer and Contractor, observe testing when required under this Contract, and review and act upon samples, schedules, shop drawings, and other submissions from the General Contractor;
 - (c) Prepare, maintain, and update logs for all submittals;
 - (d) Visit the site at intervals appropriate to the stage of construction, weekly or as otherwise agreed to by the parties, and observe the progress of the Work, issue written progress reports, attend job meetings, and review and respond to meeting minutes prepared by the OPM, and to determine in general if the Work observed is

being built in a manner indicating the Work when completed will be in accordance with approved Construction Contract Documents;

- (e) Collaborate with the on-site Project Representative of the OPM to identify and monitor issues of concern relative to the progress of the Work, and establish communications processes to help assure that matters of mutual concern are exchanged on a timely basis with one another, the OPM, Commissioning Consultant, and Owner;
- (f) On a weekly basis, make specific recommendations on rejection of any Work observed by the Designer that fails to conform to the Construction Contract Documents, and observe corrected Work;
- (g) Require each Subconsultant engaged in accordance with Article 5 to make visits weekly or as otherwise agreed to by the parties during the progress of any work to which that Subconsultant 's services relate, and to report upon it in writing to the Designer;
- (h) Recommend actions to be taken which may include condemnation or rejection of any work that the Designer determines fails to conform to the Owner-Contractor Agreement;
- (i) Review and recommend appropriate action for proposed requests for changes and where required by the Owner, prepare documents associated with requests for a change in any Construction Contract Documents. Compensation for change order work by the Designer shall be determined in accordance with Article 10;
- (j) Conduct semi-final and final inspections of the Project and report the results of such inspections in writing to the Owner;
- (k) In association with the Commissioning Consultant, review the report by such Commissioning Consultant on the balancing of air and water circulation systems;
- (l) In association with the Commissioning Consultant, review the report by such Commissioning Consultant on the setting and adjustment of automatic controls;
- (m) In a timely manner, decide all questions regarding interpretation of, or compliance with, the Construction Contract Documents, except as the Owner may, in writing, otherwise determine;
- (n) In association with the Commissioning Consultant, review the recommendations of such Consultant for requirements upon operating and maintenance documents and building user training events and instructional media as established in the Construction Contract Documents; such Consultant or OPM shall coordinate involvement of contracting parties, the Designer, and Owner;

- (o) Furnish the Record Drawings as submitted by the General Contractor in accordance with 7.8.3, and other required documents;
- (p) Assist the Owner in providing the written Contractor Evaluations required of the Owner pursuant to M.G.L. c.149 §44D(7) at the completion of approximately 50% of the Construction Phase on forms prescribed by M.G.L. c.149 §44D(16);
- (q) Perform inspections of the work as necessary to prepare a punch list identifying each incomplete or deficient Work item and performing re-inspections to authorize removal of satisfactorily completed Work items from the punch list, or to determine that the Project is complete. In association with the OPM, a cost shall be assigned to each incomplete or deficient Work item when it has been determined that the Project has reached Substantial Completion; and
- (r) Receive from the General Contractor all maintenance and operating manuals, occupancy permits, guarantees and other similar relevant materials.

7.8.2 The Designer shall submit to the OPM within 48 hours all requisitions for payment submitted by the General Contractor in the form required by the Owner. The Designer may establish procedures with the Contractor for advance notification of requisition and/or draft version processing. With respect to each such requisition, the Designer shall certify to the best of its knowledge that the percentage of Work included in the requisition is accurate and that the work performed is in accordance with the Construction Contract Documents. In the event the Designer does not approve the requisition exactly as submitted by the General Contractor, the Designer shall forward it for payment to the Owner's Project Manager dated and signed with corrections and with an accompanying letter of explanation setting forth the Designer's objections and recommended changes. The Designer shall coordinate the required visits of its own staff and those of its Subconsultants, to the construction site, so as to enable the Designer to submit to the OPM the General Contractor's monthly requisition for payment. Timely payments to the Contractor are required by M.G.L. c. 30, § 39K. Therefore, the Designer shall establish procedures to help assure either immediate mail or messenger delivery of the requisition for payment to the OPM, and shall process requisitions for payment within five (5) business days after receipt of the same, provided the Contractor has submitted a full and complete requisition for payment in the correct form.

7.8.3 Prior to issuance of the Certificate of Substantial Completion, the Designer shall obtain from the General Contractor as-built drawings, including drawings showing the actual installation of the site utilities, plumbing, heating, ventilating, and electrical work under the Owner-Contractor Agreement, and recording all changes. The Designer shall ascertain that changes authorized by change orders are shown on the General Contractor's as-built drawings, but Designer shall be entitled to rely upon the

accuracy and completeness of the Contractor's as-built information, and shall forward such to the Owner as Record Drawings.

7.8.4 Issue the Certificate of Substantial Completion of Construction.

7.8.5 The Designer shall meet with the Owner monthly during this Phase.

7.9 Completion Phase: Upon acceptance of the Certificate of Substantial Completion of Construction by the Owner, the Designer shall thereafter provide the following services:

7.9.1 With respect to a completed Project, preparing a Certificate of Final Completion.

7.9.2 With respect to a punch list, re-inspecting the work up to three (3) times in order to determine that the punch list work is satisfactorily completed.

7.9.3 Reviewing and certifying the Contractor's Application(s) and Certificate(s) for Payment as necessary.

7.9.4 Attending meetings, as reasonably necessary in the opinion of the OPM, unless such meetings involve continued discussions of incomplete or deficient work and the Basic Services punch list site visits have been expended. In such instance, the meetings shall be paid for as Extra Services.

7.9.5 Using the as-built information maintained by the General Contractor during construction referred to in Article 7.8.3, and revising the applicable original reproducible drawings and electronic media drawings on the basis of the as-built drawings, provided that Designer shall be entitled to rely upon the accuracy and completeness of the Contractor's as-built information. Upon completion of the required drafting and editing, provide one (1) set of Record Drawing mylar reproducibles, two (2) sets of Record Drawing prints, and two (2) electronic version Record Drawing copies to the Owner which shall become the property of the Owner. The cost for printing the mylar reproducibles and two sets of prints are Reimbursable Expenses. Upon completion of the required drafting and editing, provide one (1) set of Record Drawing prints and one (1) electronic version copies to the Authority.

7.9.6 Ten (10) months after the date of substantial completion, performing one (1) site inspection and preparing a list of construction warranty deficiencies. The Designer shall consult with the Commissioning Consultant upon the acceptability of warranty compliance requirements and response actions.

7.9.7 Informing the Owner, in writing, through the OPM, of all such warranty deficiencies that should be addressed.

7.9.8 Performing one (1) site inspection within a further sixty (60) days to see that all such warranty deficiencies have been corrected.

- 7.9.9 Evaluation of Contractor: The Designer shall assist the Owner with providing the written Contractor Evaluations required of the Owner pursuant to M.G.L. c.149 § 44D(7) within seventy (70) days of the date of Substantial Completion for construction, on forms prescribed by M.G.L. c.149 § 44D(16).
- 7.9.10 Two (2) suitably bound legible copies of all original design and quantity calculations, including those pertinent to change orders and shop drawings, if applicable, shall be furnished by the Designer to the Owner at the conclusion of the Owner-Contractor Agreement.
- 7.10 Intentionally Omitted
- 7.11 Intentionally Omitted

ARTICLE 8: EXTRA SERVICES

8.1 General

- 8.1.1 Extra Services are those services requested by the Owner to be performed by the Designer, but which are additional (or “extra”) to the services performed as Basic Services. Such services are not included in the Fee for Basic Services and shall be invoiced and paid for separately. Extra services shall not be deemed authorized until a written Approval is received from the Owner, which Approvals shall not be unreasonably delayed, withheld, denied, or conditioned.
 - 8.1.2 The proposed cost, scope, and schedule of all Extra Services shall be presented and approved by the Owner, in writing, prior to the performance of any Extra Services.
 - 8.1.3 Cost proposals for Extra Services shall be computed in accordance with Attachment A.
- 8.2 Unless specifically stated elsewhere and only with the prior written Approval of the Owner, the Designer shall perform any of the following services as Extra Services:
- 8.2.1 Substantially revising previously approved reports, drawings, specifications, or other documents to address changes authorized or requested by the Owner, including substantial changes in its size, quality, complexity, design, Budget, and/or bidding method or bid packages, and changes in Applicable Laws;
 - (a) Notwithstanding the provisions of 8.2.1, revisions prepared by the Designer to keep construction costs within the Project Budget that are required pursuant to Article 4.10 of this Contract to be without additional compensation, or to correct incorrect items for which the Designer has responsibility, shall not be Extra Services;

- 8.2.2 Preparing documents for separate bid packages or bidding alternates requested by the Owner, except for a reasonable number and extent of alternates to keep construction costs within the Project Budget which shall be Basic Services;
- 8.2.3 Revising Construction Contract Documents which have been initially submitted and approved in their final and complete form, if general bids or subcontractor bids for work required thereunder are not advertised based on such Construction Contract Documents within four months after initial submission;
- 8.2.4 Services in connection with rebidding if the need to rebid is not attributable to the Designer;
- 8.2.5 Attending meetings with the Owner, Owner's Project Manager, the Authority, Department of Labor and Workforce Development, the Office of Attorney General, the Office of the Inspector General in matters of dispute if attendance is required by the Owner, provided such dispute did not arise due to the fault of the Designer;
- 8.2.6 Furnishing other services in excess of Basic Services made necessary by the default or failure of performance of the General Contractor or Subcontractors;
- 8.2.7 Providing consultation with respect to replacement of work damaged by fire or other casualty during construction;
- 8.2.8 Preparing change orders and supporting data in accordance with Article 10, or modifying the Construction Documents in response to an unreasonable amount of substitutions proposed by the Contractor, or responding to unreasonable and excessive requests for information (RFIs) by the Contractor where such information is available from a careful study and review of the Construction Documents;
- 8.2.9 Assisting the Owner in litigation or claims arising out of the Owner-Contractor Agreement, provided such litigation or claims did not arise due to the fault of the Designer;
- 8.2.10 Performing Construction Administration Phase services during a construction period extended beyond the additional 60 calendar day period, specified in Article 8.3;
- 8.2.11 Performing professional services which are not otherwise required under this Contract as Basic Services;
- 8.2.12 Providing services in connection with partial completion or partial systems completion inspections at the time of Substantial Completion of the Work or of a project construction phase and/or separate bidding package due to delay by the Contractor in completing the Work on schedule;
- 8.2.13 Providing services in connection with Contractor or Bidder disputes or questions arising out of the bidding process unless such protest is a result of an act or omission

of the Designer. Such services include research and preparation for and appearance at bid protest hearings and similar proceedings;

8.2.14 Providing services related to identification, testing, or remediation of existing building hazardous materials; and

8.2.15 Providing master planning services.

8.3 Construction Phase Services Provided after the Original Construction Completion Date

8.3.1 If construction of the Work, or of a project construction phase and/or separate bidding package has not reached substantial completion within the original construction period (as set forth in the Owner-Contractor and as agreed to by the Designer), there shall be added to said construction period a period of sixty (60) calendar days, during which period the Designer shall continue to provide Construction Administration Phase services for which no extra compensation shall be paid for the services described in Articles 7.8 and 7.9.1 through 7.9.4.

8.3.2 If construction has not reached Substantial Completion after the 60 additional calendar days, the Designer shall thereafter be entitled to Extra Services compensation for providing the services described in Articles 8.2.10 (which are fully defined under Article 7.9) or for the services described in Articles 7.9.3 and 7.9.4. The Designer may also be entitled to Extra Services compensation for tasks performed beyond the added sixty (60) calendar days period for tasks related to Article 7.8.1(d) through (i). In any event, the Designer is required to identify and present the anticipated Extra Services contemplated under Article 8.3.2 in accordance with Article 8.1. In no event shall the Designer be entitled to any additional compensation on account of an extended construction period if and to the extent that a binding agreement or decision that results from a dispute resolution proceeding determines that the Designer's acts or inactions caused the construction period to be extended.

8.4 In the event of an emergency, the Designer may proceed to perform Extra Services as required to meet the emergency after obtaining the verbal approval of the Owner. The Designer shall provide a written report to the Owner as soon as possible after the emergency arises. This report shall describe the emergency and the Extra Services that were performed.

8.5 Invoices for Extra Services shall be accompanied by a breakdown listing the name, payroll title, date, number of hours by day, hourly rate, and extended amount, per specified task of Extra Services performed. Hourly rates shall be in accordance with the Hourly Rate Schedule in Attachment A.

ARTICLE 9: REIMBURSABLE EXPENSES

- 9.1 For coordination and responsibility for the services, materials, and costs described in 9.1.1 through 9.1.5, the Designer shall be reimbursed its actual costs and those of its Subconsultants, supported by invoices or receipts, plus 10%. The following are reimbursable expenses, when previously approved in writing by the Owner:
 - 9.1.1 The cost of printing more than five (5) sets of design submittals, or more than two electronic versions thereof per design submission deliverable phase or sub-phase.
 - 9.1.2 The related copying, postage, and handling services during a prequalification or bid period.
 - 9.1.3 The cost of reproducing the mylar reproducible of the construction drawings for use by the General Contractor in preparing the record drawings.
 - 9.1.4 Out of pocket expenses paid by the Designer such as filing fees, testing, and permit fees if such fees would be normally paid by the Owner.
 - 9.1.5 Other expenses deemed necessary or appropriate by the Owner in writing.
- 9.2 Non-Reimbursable Expenses: The Owner shall not reimburse the Designer or its Subconsultants for travel expenses, sustenance, telephone, copying, facsimiles, electronic mails, postage, and delivery expenses, unless specifically required elsewhere in this Contract.
- 9.3 The Designer shall not be entitled to compensation under this Article for the services of Subconsultants hired to perform Basic Services under this Contract.

ARTICLE 10: COMPENSATION AND RESPONSIBILITY FOR CHANGE ORDERS

- 10.1 The Designer shall be entitled to Extra Services compensation for preparing Change Orders initiated by the Owner except as provided in Article 10.3.
- 10.2 The Designer shall not be entitled to Extra Services compensation for preparing Change Orders to adjust the scope of construction work which arises from existing conditions for which unit prices have been specified in the Construction Contract Documents.
- 10.3 The Designer shall not be entitled to Extra Services compensation for preparing Change Orders necessary to address errors or omissions by the Designer.
- 10.4 Change Orders for which the Designer is not entitled to compensation are to be referred to as “no fee change orders.”

- 10.5 The fact that the Designer is not entitled to compensation for preparing a Change Order shall not limit any legal remedies which the Owner may have for recovering its additional costs necessitated by the Change Order.

ARTICLE 11: RELEASE AND DISCHARGE

- 11.1 The acceptance by the Designer of the last payment under the provisions of Article 6.5 or Article 12, in the event of termination of the Contract, shall, in each instance, operate as and be a release to the Owner and the Authority and their employees and officers from all claims of the Designer and its Subconsultants for payment for services performed and/or furnished, except for those written claims submitted by the Designer to the Owner with, or prior to, the last invoice.

ARTICLE 12: ASSIGNMENT, SUSPENSION, TERMINATION, NO AWARD

12.1 Assignment:

- 12.1.1 The Designer shall not assign or transfer any part of its services or obligations under this Contract (other than as specified in this Article 12), without the prior written approval of the Owner. Likewise, any successor to the Designer must first be approved by the Owner before performing any services under this Contract. Such written consent shall not in any way relieve the Designer or their assignee from their responsibilities under this Contract. The Owner and the Authority shall have the right to approve any assignment or transfer or change in status for the persons or Subconsultants listed on pages 1-2 of this Contract and such approval shall not be unreasonably withheld. The Owner shall not assign this Contract without the written consent of the Designer.

12.2 Suspension

- 12.2.1 The Owner may, at any time, effective upon fifteen (15) business days written notice to the Designer, suspend this Contract. If the Owner provides such written notice, the Designer shall be compensated for Services satisfactorily performed in accordance with the Contract terms prior to the effective date of such suspension; invoices for such Services shall be properly submitted, but may be submitted after the date of such notice up to the effective date of suspension.
- 12.2.2 If a written notice of suspension issued pursuant to Article 12.2.1 lasts for more than ninety (90) consecutive calendar days, the Designer may, upon resumption of the Contract, be entitled to additional compensation for actual costs incurred due to such suspension, provided that the suspension was not attributable to the Designer's fault.

12.3 Termination

12.3.1 (a) By written notice to the Designer, pursuant to Article 13 Notices, the Owner may terminate this Contract effective on five (5) calendar days notice without cause. All compensation and reimbursement due to the Designer in accordance with the Contract terms, for services satisfactorily performed up to the date of termination, including proportionate payment for portions of the services started but incomplete at the time of termination, shall be paid to the Designer, provided no payment shall be made for services not yet performed or for anticipated profit on unperformed services.

12.3.2 (b) Pursuant to Article 13 Notices, the Owner may terminate this Contract effective on five (5) calendar days notice for cause, and no further payment shall be due to the Designer to the extent the Owner can reasonably identify damages in specific amounts for which the Designer is liable under this Contract; Owner shall pay other amounts otherwise due and owing to the Designer.

12.4 Suspension or Termination by Designer: The Designer may suspend or terminate this Contract by providing written notice to the Owner and the Authority, pursuant to Article 13 Notices, at the Designer's sole option, under the following circumstances:

12.4.1 If the Owner, within thirty (30) days following written notice from the Designer of any material default by the Owner under the Contract (including failure to pay in accordance with the Contract), fails to cure such default; or

12.4.2 If, after the Designer has performed all services required during any Phase prior to construction and at least three (3) months have elapsed without the Designer receiving receipt of Approval to proceed with the next Phase of the Project, provided the delay was not the fault of the Designer. This provision shall not apply to a Designer who has received a notice of suspension pursuant to 12.2.

12.4.3 Upon a proper termination by the Designer, the Designer shall be compensated as provided in 12.3.1 above regarding termination without cause.

12.5 No Award of Owner-Contractor Agreement: If the Project is constructed pursuant to M.G.L. c. 149, §§ 44A-44M, and the Owner-Contractor Agreement is not awarded by the Owner within one hundred twenty (120) days after the receipt of general bids for the Project and the bids have not been rejected and the Project has not been suspended, the Designer shall be paid through the Bidding Phase as if a contract for construction were awarded according to the payment schedule provided in Attachment A. This Article 12.5 does not apply, however, if the Designer has been directed to perform design revisions pursuant to 4.10.2, for the purposes of bringing the design of the Project within the Project Construction Budget.

ARTICLE 13: NOTICES

- 13.1 Any notices required or permitted to be given hereunder shall be given in writing and shall be delivered (a) in person; (b) by certified mail, postage prepaid, return receipt requested; (c) by facsimile; or (d) by a commercial overnight courier that guarantees next day delivery and provides a receipt, and such notices shall be addressed as follows:

If to _[]_;

If to _[]_;

If to _[]_;

or to such other address as the Owner, Authority and Designer may from time to time specify in writing. Any notice shall be effective only upon delivery, which for any notice given by facsimile shall mean notice that has been received by the party to whom it is sent as evidenced by confirmation slip that bears the time and date of request.

ARTICLE 14: INDEMNIFICATION

- 14.1 For claims arising out of or relating to negligent errors and omissions in the performance of professional services rendered by the Designer, the Designer shall indemnify and hold harmless the Owner and its officers and employees to the fullest extent permitted by law. This includes all claims, damages, liabilities, injuries, costs, fees, expenses, or losses, including, without limitation, reasonable attorney's fees and costs of investigation and litigation, whatsoever which may be incurred by the Owner to the extent caused by the negligence of, or the breach of this Contract by, the Designer, or a person employed by the Designer, or Subconsultant for whom the Designer is responsible under this Contract.
- 14.2 For all other claims, the Designer shall defend, indemnify, and hold harmless the Owner and the Authority and their officers and employees to the fullest extent permitted by law. This includes all claims, damages, liabilities, injuries, costs, fees, expenses, or losses, including, without limitation, reasonable attorney's fees and costs of investigation and litigation, whatsoever which may be incurred by the Owner or the Authority to the extent they result from the performance of its services, provided that such claims, damages, liabilities, injuries, costs, fees, expenses, or losses are attributable to bodily injury or death or injury to or destruction of tangible property and are caused by an act or omission of the Designer, or a person or Subconsultant for whom the Designer is responsible under this Contract.

ARTICLE 15: INSURANCE

- 15.1 The Designer shall obtain and maintain at its sole expense all insurance required by law and as may be required by the Owner and by the Authority under the terms of this Contract. The insurance required hereunder shall be provided at the sole expense of the Designer or its Subconsultant, as the case may be, and shall be in full force and effect for the full term of the Contract between the Owner and the Designer or for such longer period as required under this Contract.
- 15.2 All policies shall be issued by companies lawfully authorized to write that type of insurance under the laws of the Commonwealth of Massachusetts with a financial strength rating of “A” or better as assigned by A.M. Best Company, or an equivalent rating assigned by a similar rating agency acceptable to the Owner and the Authority.
- 15.3 The Designer, and any of its Subconsultants, shall submit to the Owner originals of the required certificates of insurance simultaneously with the execution of this Contract. Certificates of insurance evidencing the coverage required hereunder, together with evidence that all premiums for such insurance have been fully paid, shall be filed with the Owner and shall be made available to the Authority upon request. Certificates shall show each type of insurance, insurance company, policy number, amount of insurance, deductibles/self-insured retentions, and policy effective and expiration dates. The Designer shall submit updated certificates to the Owner prior to the expiration of any of the policies referenced in the certificates so that the Owner shall at all times possess certificates indicating current coverage and said certificates shall be made available to the Authority upon request. Failure by the Designer to obtain and maintain the insurance required by this Article, to obtain all policy renewals, or to provide the respective insurance certificates as required shall constitute a material breach of the Contract and shall be just cause for termination of the services of the Designer under this Contract.
- 15.4 Termination, cancellation, or modification or reduction of coverage or limits by endorsement of any insurance required by this Contract, whether by the insurer or the insured, shall not be valid unless written notice thereof is given to the Owner and the Authority at least thirty (30) days prior to the effective date thereof, which shall be expressed in said notice.
- 15.5 The Designer, or its Subconsultant, as the case may be, is responsible for the payment of any and all deductibles under all of the insurance required below. Neither the Owner nor the Authority shall be responsible for the payment of deductibles, self-insured retentions, or any portion thereof.
- 15.6 Workers’ Compensation, Commercial General Liability, Automobile Liability, and Valuable Papers

15.6.1 The Designer shall purchase and maintain at its own expense during the life of this Contract, or such other time period as provided herein, the following types and amounts of insurance, at a minimum:

- (a) Workers' Compensation Insurance in accordance with General Laws Chapter 152. The policy shall be endorsed to waive the insurer's rights of subrogation against the Owner and the Authority.
- (b) Commercial General Liability Insurance (including Premises/Operations; Products/Completed Operations; Contractual; Independent Contractors; Broad Form Property Damage; and Personal Injury) with a minimum limit of \$1,000,000 per occurrence, \$2,000,000 aggregate. The Designer shall maintain such insurance in full force and effect for a minimum period of one year after final payment and shall continue to provide evidence of such coverage to the Owner and the Authority. The Owner and the Authority shall be included as an additional insured in this policy. The policy shall be endorsed to waive the insurer's rights of subrogation against the Owner and the Authority.
- (c) Automobile Liability Insurance (including owned, non-owned and hired vehicles) at limits of not less than \$1,000,000 combined single limit per accident.
- (d) Valuable Papers Insurance in an amount sufficient to assure the restoration of any plans, drawings, computations, field notes, or other similar data relating to the work covered by the Agreement between the Owner and the Designer in the event of loss or destruction while in the custody of the Designer until the final fee payment is made or all data is turned over to the Owner, and this coverage shall include coverage for relevant electronic media, including, but not limited to, documents stored in computer systems.

15.7 Professional Liability

15.7.1 The Designer shall maintain professional liability insurance covering negligent errors and omissions and negligent acts of the Designer and of any person or entity for whose performance the Designer is legally liable at all times while services are being performed under this Contract and for a period of six (6) years thereafter (as calculated in accordance with the terms below in this 15.7.2). The minimum amount of such insurance shall be \$2,000,000 per claim/\$2,000,000 annual aggregate.

15.7.2 If the policy is in a "claims made" format, it shall include a retroactive date that is no later than the effective date of this Contract, and an extended reporting period of at least six years after the earlier of: (1) the date of official acceptance of the completed Project by the Owner; (2) the date of the opening of the Project to public use; (3) the date of the acceptance by the general contractor of a final pay estimate prepared by the Owner pursuant to M.G.L. chapter 30; or (4) the date of substantial completion of the

Owner-Contractor Agreement and the taking of possession of the Project for occupancy by the Owner, which requirement can be met by providing renewal certificates of professional liability insurance to the Owner as evidence that this coverage is being maintained.

15.8 Subconsultants

- 15.8.1 The Designer shall require by contractual obligation, and shall exercise due diligence to enforce, that any professional engineering or landscape architecture Subconsultant hired in connection with the services to be provided under this Contract shall, unless otherwise agreed in writing by the Owner, obtain and maintain all insurance required by law and as may be required by the Owner under the terms of this Contract, except that the limit of Subconsultant's professional liability insurance shall be not less than \$2,000,000 per claim/\$2,000,000 annual aggregate.
- 15.8.2 All professional liability policies obtained by Subconsultants shall be issued by companies lawfully authorized to write that type of insurance under the laws of the Commonwealth of Massachusetts with a financial strength rating of "A" or better as assigned by A.M. Best Company, or an equivalent rating assigned by a similar rating agency acceptable to the Owner and the Authority.
- 15.8.3 If the Subconsultant's insurance policy is in a "claims made" format, it shall include a retroactive date that is no later than the effective date of its contract with the Designer, and an extended reporting period of at least six (6) years after the earlier of: (1) the date of official acceptance of the completed Project by the Owner; (2) the date of the opening of the Project to public use; (3) the date of the acceptance by the General Contractor of a final pay estimate prepared by the Owner pursuant to M.G.L. chapter 30; or (4) the date of substantial completion of the Owner-General Contractor Agreement and the taking of possession of the Project for occupancy by the Owner, which requirement can be met by providing renewal certificates of professional liability insurance to the Owner as evidence that this coverage is being maintained.
- 15.8.4 Other nonprofessional Subconsultants shall be required to maintain insurance in the types and amounts that they routinely carry in the course of their practice.

15.9 Liability of the Designer

Insufficient insurance shall not release the Designer from any liability for breach of its obligations under this Contract. Without limitation, the Designer shall bear the risk of any loss if its valuable papers insurance coverage is insufficient to cover the loss of any work covered by this Contract.

15.10 Asbestos and Hazardous Materials

- 15.10.1 Unless otherwise provided in Article 8 Extra Services, the Designer shall have no responsibility for the discovery, presence, handling, removal, or disposal of or for the exposure of persons to oil or hazardous materials in any form at the Project, including but not limited to asbestos-containing materials or other hazardous materials, as defined in MGL c.21E §2.
- 15.10.2 In the event that the Designer employs the services of a subconsultant to provide services related to either the testing for asbestos-containing materials or oil or hazardous materials or related to the specification of methods and procedures for the removal or remediation of such asbestos-containing materials or oil or hazardous materials, the Designer shall employ such Subconsultants who have liability insurance coverage covering such services, to the extent that such insurance coverage is generally available to Subconsultants. Upon the Owner's written request, the Designer shall assign to the Owner the Designer's contractual right to pursue a claim against such Subconsultants. Such services shall be paid for as provided in Article 8 Extra Services.

ARTICLE 16: OWNERSHIP OF DOCUMENTS

- 16.1 Unless provided otherwise by law, ownership and possession of all information, data, reports, studies, designs, drawings, specifications, materials, computer programs, documents, models, inventions, equipment, and any other documentation, product of tangible materials to the extent authored or prepared, in whole or in part, by the Designer pursuant to this Contract (collectively, the "Materials"), other than the Designer's administrative communications, records, and files relating to this Contract, shall be the sole property of, and shall vest in, the Owner and the Authority as "works made for hire" or otherwise, provided that the Owner complies with its payment obligations under this Contract. The Owner and the Authority will own the exclusive rights, worldwide and royalty-free, to and in all Materials prepared and produced by the Designer pursuant to this Contract, including, but not limited to, United States and International patents, copyrights, trade secrets, know-how and any other intellectual property rights, and the Owner and the Authority shall have the exclusive, unlimited and unrestricted right, worldwide and royalty-free, to publish, reproduce, distribute, transmit, and publicly display all Materials prepared by the Designer. The Owner and the Authority shall provide appropriate credit to the Designer, in terms agreed upon by the Designer, in any publicity about or plaque at the Project. The Designer shall have a license to publish and publicly display all Materials prepared by the Designer in its normal marketing and related professional and academic activities. The Designer shall have a license to use the typical or standard details and all other replicable elements of the Materials for this Project on other future projects. At the completion or termination of the Designer's services required pursuant to this Contract,

copies of all original Materials shall be promptly turned over to the Owner and the Authority.

- 16.2 The Owner and the Authority agree to waive any and all claims against the Designer and, to the fullest extent permitted by law, to jointly and severally defend, indemnify and hold the Designer harmless from and against any and all claims, losses, liabilities, and damages incurred by the Owner or asserted by any other entity or individual arising out of or resulting from any use of the Materials on other projects, modifications of the Materials made by the Owner or others and used on this Project, or any reuse or modification of the Materials or any of Designer's designs, drawings, and specifications. The Authority shall be a party to this Contract solely for the purposes of enforcing its rights and obligations under this Article 16.

ARTICLE 17: STATUTORY REQUIREMENTS

- 17.1 Agent for Service of Process: If the Designer's principal place of business is outside of the Commonwealth of Massachusetts, the Designer shall appoint an agent for the service of process as provided in M.G.L. c.227, §5. The power of attorney reflecting such appointment shall be filed with the Secretary of State as provided in M.G.L. c.227, §5. Copies of the power shall be provided to the Owner. There shall be no lapse in such agency as long as the Designer may have potential liability.
- 17.2 Truth-in-Negotiations Certificate (M.G.L. c.7C, §51)
- 17.2.1 If the Designer's fee has been negotiated, the Designer must file a truth-in-negotiations certificate prior to execution of this Contract by the Owner. The certificate shall contain the following certifications:
- (a) that wage rates and other costs used to support the Designer's compensation are accurate, complete, and current at the time of contracting; and
 - (b) that the Contract price and any additions to the Contract may be adjusted within one year of completion of the Contract to exclude any significant amounts if the Owner determines that the fee was increased by such amounts due to inaccurate, incomplete, or noncurrent wage rates or other costs.
- 17.3 Certification Pursuant to M.G.L. c.7C §51 (d): In accordance with M.G.L. c.7C §51(d), the person signing this contract certifies, as a duly authorized signatory of the Designer, that the Designer has not given, offered, or agreed to give any person, corporation, or other entity any gift, contribution, or offer of employment as an inducement for, or in connection with, the award of this Contract; no Consultant to or Subconsultant for the Designer has given, offered, or agreed to give any gift, contribution, or offer of employment to the Designer, or to any other person, corporation, or entity as an inducement for, or in connection with, the

award to the Designer or Subconsultant of a contract by the Designer; and no person, corporation, or other entity, other than a bona fide full-time employee of the Designer, has been retained or hired by the Designer to solicit for or in any way assist the Designer in obtaining this Contract upon an agreement or understanding that such person, corporation, or other entity be paid a fee or other consideration contingent upon the award of this Contract.

17.4 Minority-Owned and Woman-Owned Business Participation: Pursuant to M.G.L. c. 7C, § 6, the Designer shall subcontract with minority-owned business enterprises (MBE), Veteran Business Enterprise (VBE) and Service-Disabled Veteran Business Enterprise (SDVOBE) and women-owned business enterprises (WBE), as certified by the Supplier Diversity Office; such participation goals shall be based on the Municipal Construction Affirmative Marketing Program administered by the Supplier Diversity Office. If the Designer is an SDO-certified MBE, WBE, or SDVOBE the Designer must bring a reasonable amount of program participation goals for such businesses that hold the certification which is not held by the prime Designer on the project.

17.4.1 The Designer shall complete and submit at the time of contract execution a completed Participation Schedule which is attached to this contract as Attachment C in order to be in compliance with Article 17.4 above.

17.5 Accounting Requirements: The Designer shall cause to be maintained complete, accurate, and detailed records of all time devoted to the Project by the Designer and each Subconsultant employed by the Designer. The Owner, the Authority, and the Commonwealth's Inspector General may at all reasonable times audit such records that directly pertain to this Contract. On a Contract where the Fee for Basic Services exceeds \$100,000 the Designer shall comply with M.G.L. c.30 §39R which requires the Designer to:

17.5.1 Maintain accurate and detailed accounts for a six-year period after the final payment;

17.5.2 File with the Owner a statement of management on internal accounting controls on its letterhead as prescribed in Attachment D and a statement from an independent certified public accountant (CPA) on its letterhead as prescribed in Attachment E to this Contract.

17.5.3 File with the Owner a statement of management on internal accounting controls on its letterhead as prescribed in Attachment D and a statement from an independent certified public accountant (CPA) on its letterhead as prescribed in Attachment E to this Contract.

17.6 Revenue Enforcement and Protection Program (REAP): Pursuant to M.G.L. c. 62C §49A, the undersigned certifies under the penalties of perjury that to the best of his/her knowledge and belief that the firm and/or individuals in the firm are in compliance with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

- 17.7 Interest of Designer: The Designer hereby certifies that it is in compliance with the provisions of M.G.L. c. 268A whenever applicable. The Designer covenants that 1) neither he/she nor any member of the Designer firm presently has any financial interest and shall not acquire any such interest direct or indirect, which would conflict in any manner or degree with the services required to be performed under this Contract or which would violate M.G.L. Chapter 268A, as amended from time-to-time; 2) in the performance of this Contract, no person having any such interest shall be employed by the Designer; and 3) no partner or employee of the Designer firm is related by blood or marriage to any officer, official, or employee of the Owner.
- 17.8 Equal Opportunity: The Designer shall not discriminate in employment against any person on the basis of race, color, religion, national origin, sex, sexual orientation, age, genetics, ancestry, disability, marital status, veteran status, membership in the armed forces, presence of children, or political beliefs. Each shall comply with all provisions of Title VII of the Civil Rights Act of 1964 and M.G.L. c.151B.
- 17.9 Certification of Non-Collusion: The signatory certifies under penalties of perjury that the Designer's proposal has been made in and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.
- 17.10 Minority and Women Workforce Participation: Pursuant to M.G.L. c. 7C, s. 6 and M.G.L. c. 149, s. 44A(2)(G) the Designer shall be required to provide regular reports of the gender and race/ethnicity of employees engaged in work under this contract, for both prime and subconsultants, in the form and format required by the District, including but not limited to, by electronic reporting through the requested means and with the frequency required by the District.

ARTICLE 18: MISCELLANEOUS

- 18.1 Governing Law: This Contract shall be governed by the laws of the Commonwealth of Massachusetts.
- 18.2 Venue: Any suit by either party arising under this Contract shall be brought only in the Superior Court in the county where the Project is located. The parties hereto waive any argument that this venue is improper or that the forum is inconvenient.
- 18.3 Non-Waiver: Neither the Owner's review, approval, or acceptance of, nor payment for any of the services furnished under this Contract shall be construed to operate as a waiver of any rights under the Contract or any cause of action arising out of the performance of the Contract.

- 18.4 Entire Agreement: This Contract represents the entire and integrated agreement between the Owner and the Designer and, except as otherwise provided herein, supersedes all prior negotiations, representations, or agreements, either written or oral. This Contract may be amended only by written agreement signed by both the Owner and the Designer, and approved by the Authority, which approval shall not unreasonably be delayed, denied, conditioned, or withheld.
- 18.5 Dispute Resolution: If a dispute arises between the parties related to this Contract, the parties agree to use the following procedures to resolve the dispute: (a) Negotiation. A meeting shall be held between representatives of the parties with decision-making authority regarding the dispute to attempt in good faith to negotiate a resolution of the dispute; such meeting shall be held within fourteen (14) calendar days of a party's written request for such a meeting; (b) Mediation. If the parties fail to negotiate a resolution of the dispute, they shall submit the dispute to mediation as a condition precedent to litigation and shall bear equally the costs of the mediation. The parties shall jointly appoint a mutually acceptable mediator; they shall seek assistance from an independent third party in such appointment if they have been unable to agree upon such appointment within thirty (30) days of the meeting just noted in (a) above; (c) Litigation. If the parties fail to resolve the dispute through mediation, then either party may file suit in accordance with Article 18.2; and (d) This Article of dispute resolution provisions shall survive termination of this Contract.
- 18.6 Waiver of Subrogation: (a) To the extent damages are covered by property insurance, the Owner and the Designer waive all rights against each other and against the General Contractor, Subcontractors, consultants, agents, and employees of the other for damages caused by fire or other causes of loss, except such rights as they may have to the proceeds of such insurance as set forth in the Owner-Contractor Agreement. The Owner shall require of the General Contractor, Subcontractors, Owner's Project Manager, consultants, Subconsultants, and agents and employees, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.
- (b) Nothing in this Contract shall create a contractual relationship with or create a cause of action in favor of a third party against the Owner or the Designer.

ATTACHMENT A

PAYMENT SCHEDULE

Payments shall be made in accordance with the provisions outlined in the Contract and with the following schedule:

Basic Services

Schematic Design Phase
.....
Construction Documents Phase
Bidding Phase.....
Construction Administration Phase
Completion Phase
TOTAL

Extra Services

Extra Services provided pursuant to Article 8 shall be compensated as determined by the Owner (a) by a lump sum fee agreed upon in advance in writing by the Owner and the Designer, or (b) on an hourly basis in accordance with the rate schedule set forth below for time expended, up to a not to exceed amount.

Hourly Rates:

ATTACHMENT B

Not Used

ATTACHMENT C

**PARTICIPATION SCHEDULE FOR DESIGNER CONTRACTS
BY SDO CERTIFIED ENTERPRISES**

This form shall be submitted to the Owner by the Designer upon execution of the Contract for Designer Services attached hereto.

Owner _____

Project No: _____

<u>Name of Company</u>	<u>Description of Work</u>	<u>Participation</u>	<u>Dollar Value</u>
1. _____	_____	_____	\$ _____
2. _____	_____	_____	\$ _____
3. _____	_____	_____	\$ _____
4. _____	_____	_____	\$ _____
5. _____	_____	_____	\$ _____
6. _____	_____	_____	\$ _____

Dollar Value of MBE Commitment: \$ _____

Dollar Value of WBE Commitment: \$ _____

Dollar Value of VBE Commitment \$ _____

Dollar Value of SDVBE Commitment \$ _____

Total Dollar Value Commitment: \$ _____

Original Fee for Basic Services Amount \$ _____

DESIGNER CERTIFICATION

The undersigned certifies under the penalties of perjury that (1) it intends to subcontract with the above listed firms for the identified work and dollar amounts and (2) certifies that he/she has read the terms and conditions of the Designer Contract with regards to SDO certified entities participation and is authorized to bind the Designer to the commitment set forth above.

Date _____

Name of Architect/Engineer

Authorized Signature

Address

City, State & Zip Code

ATTACHMENT D

M.G.L. c.30 §39R - INTERNAL ACCOUNTING CONTROLS

APPLIES TO CONTRACTS OF \$100,000 OR MORE

SAMPLE LETTER TO BE PREPARED ON DESIGNER'S LETTERHEAD

Date

CEO

Owner

123 Reservoir Street

Enfield, MA 01234

RE: Enfield High School

Dear:

This Statement of Internal Accounting Controls is being submitted in accordance with Article 17.5.3 of the Contract for Design Services for the above captioned project. Please be advised that our firm, the Designer under the Contract, has a system of internal accounting controls which assures that:

1. transactions are executed in accordance with management's general and specific authorization;
2. transactions are recorded as necessary, to permit preparation of financial statements in conformity with generally accepted accounting principles, and to maintain accountability for assets;
3. access to assets is permitted only in accordance with management's general or specific authorization; and
4. the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action was taken with respect to any difference.

Sincerely,

ATTACHMENT E

MGL c.30 §39R – INTERNAL ACCOUNTING CONTROLS

APPLIES TO CONTRACTS OF \$100,000 OR MORE

SAMPLE LETTER TO BE PREPARED ON CPA's LETTERHEAD

CEO

Owner

123 Reservoir Street

Enfield, MA 01234

RE:

Dear

Please be advised that we have reviewed the Statement of Internal Accounting Controls prepared by the

_____ in connection with the

Name of Designer

above-captioned project. This statement is required under M.G.L. c.30 §39R. In our opinion, representations of management are consistent with our evaluations of the system of internal accounting controls. In addition, we believe that they are reasonable with respect to transactions and assets in the amount which would be material when measured in relation to the firm's financial statements.

Sincerely,

(CPA)

ATTACHMENT F

CONTRACT FOR HEAT PUMP DESIGNER SERVICES

AMENDMENT NO. _____

WHEREAS, the _____ (“Owner”) and
_____, (the “Designer”) (collectively, the “Parties”)
entered into a Contract for Heat Pump Designer Services for the _____
Project (Project Number _____) at the _____ School on
_____.
“Contract”; and

WHEREAS, effective as of _____, the Parties wish to amend the Contract:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

Fee for Basic Services:	Original Contract	After this Amendment
Schematic Design Phase	\$ _____	\$ _____
Construction Document Phase	\$ _____	\$ _____
Bidding Phase	\$ _____	\$ _____
Construction Administration Phase	\$ _____	\$ _____
Completion Phase	\$ _____	\$ _____
Total Fee	\$ _____	\$ _____

This Amendment is a result of: _____

3. The Construction Budget shall be as follows:

Original Budget: \$ _____

Amended Budget \$ _____

4. The Project Schedule shall be as follows:

Original Schedule: \$ _____

Amended Schedule \$ _____

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

(print name)

(print title)

By _____
(signature)

Date _____

DESIGNER

(print name)

(print title)

By _____
(signature)

Date _____