

*If you have printed this bid from
the City of Quincy Website or
through an email, it is your
responsibility to check for
addenda at www.quincyma.gov
before you turn in your
proposal.*

*“Please send an
acknowledgment that you
printed out this bid, to:
ktrillcott@quincyma.gov”*

*The City of Quincy will not be
responsible any bids received
omitting addenda
acknowledgement.*

Thank you



INVITATION TO BID

CITY OF QUINCY, MASSACHUSETTS
PURCHASING DEPARTMENT
1305 HANCOCK ST., QUINCY, MA 02169

The City of Quincy invites sealed bids/proposals for:

PLANNING DEPT.

DEMOLITION OF 27 REVERE ROAD

JUNE 28, 2012 @ 11:00 a.m.

Detailed specifications are available on-line at the City of Quincy's website, www.quincyma.gov and also available at the office of the Purchasing Agent, Quincy City Hall, 1305 Hancock Street, Quincy, Massachusetts, 02169, between the hours of 8:30 ^{AM} and 4:30 ^{PM} for a non-refundable printing charge of \$50.00

A non-mandatory pre-bid walk thru will be held on June 11, 2012 at 10:00 a.m. at the site, 27 Revere Road, Quincy, MA 02169. DCAM is required in the DEMOLITION category.

All questions regarding this bid should be directed to Kathryn R. Hobin, Purchasing Agent through fax: 617-376-1074 and email: khobin@quincyma.gov and cc: to krillcott@quincyma.gov Questions will be accepted until June 20, 2012 at 4:00 p.m.

Bids/Proposals must be in a sealed envelope. The outside of the sealed envelope is to be clearly marked "**BID ENCLOSED**" with time/date of bid call.

The successful bidder will be required to conform to the payment of Prevailing Wage Rates, as determined by the Commissioner of Labor & Industries under the provision of M.G.L. Chapter 149, Section 26 to 27D as amended.

Firm bid prices will be given first consideration. Bids/Proposals will be received at the office of the Purchasing Agent until the time and date stated above, at which time and date they will be publicly opened and read. Late Bids/Proposals, delivered by mail or in person, will be rejected.

If applicable, bids shall be in accordance with M.G.L. Chapter 30B, Chapter 149 as amended, and Chapter 30, Sections 39A, 39B and 39F-R.

The right is reserved to reject any or all bids or to accept any part of a bid or the one deemed best for the City and waive any informality in the bidding if it is in the best interest of the City to do so.

Thomas P. Koch, MAYOR

Kathryn R. Hobin, PURCHASING AGENT

LEGAL: MAY 30, 2012
LEGAL: JUNE 7, 2012

CENTRAL REGISTER
P.O. # S062812

DEPT. CHARGED: PLANNING DEPARTMENT



CITY OF QUINCY, MASSACHUSETTS
PURCHASING DEPARTMENT, CITY HALL

INFORMATION AND INSTRUCTIONS TO BIDDERS

1. I. INVITING BIDS

2. (a) Sealed bids are invited for furnishing to the City of Quincy, Massachusetts, the described materials,
3. commodities or services all in accordance with the specifications and conditions attached hereto and made a part
4. thereof.

5. (b) Form of proposal to be used and copies of specifications and conditions are available at the Purchasing
6. Agent's office, 1305 Hancock Street.

7. (c) All bids must be filed with the Purchasing Agent of the City of Quincy, Massachusetts, at or before the
8. hour of time set forth in the legal and published advertisement, a copy of which is here attached, also at the definite
9. place so stated, and on the forms furnished by the Purchasing Agent. Each bid shall be accompanied by bid bond
10. or a certified check on, or a treasurer's or cashier's check issued by, a responsible bank or trust company, payable
11. to the City of Quincy, Massachusetts. The amount of such cash or check shall be not less than five percent (5%) of
12. the value of the proposed work, as estimated by the awarding authority, but in no event less than one hundred
13. dollars nor more than fifty thousand dollars. This deposit above mentioned shall be as a guarantee that the bidder
14. will enter into the proposed contract, if awarded to him. This requirement shall become effective unless stated to
15. the contrary or deleted under "Detailed Specifications and Requirements." This certified check will be returned
16. after the awarded contracts have been completely signed and proper delivery made, together with any performance
17. bond if required in the bid form.

18. (d) This proposal is genuine and not collusive or made in the interest of or in behalf of any person not
19. herein named, and that the bidder has not directly, or indirectly, induced or solicited any other bidder to put in a
20. sham bid or any other person, firm or corporation to refrain from bidding, and that the bidder has not in any
21. manner sought by collusion to secure for himself an advantage over any other bidder. Any bid made in violation
22. thereof, shall not be considered. This agreement in detail shall be found under paragraph XVIII (18) entitled
23. "Affidavit and/or Agreement."

24. (e) The successful bidder shall, within ten (10) days after the award, enter into a written contract with
25. said City in accordance with the draft of contract furnished by the City Solicitor for furnishing the described
26. materials, commodities or services and execute as a part of said contract, a satisfactory performance bond in the
27. amount of (100%) one hundred percent of the aggregate amount of the contract unless otherwise stated in the
28. "Detailed Specifications and Requirements," and shall be continued for the faithful performance of the contract
29. and executed by the Contractor and a responsible surety company.

30. (f) The right is reserved to reject any and all bids or to accept any bid or to accept any part of a bid or the
31. one deemed best for the City.

32. II. FORM OF PROPOSAL AND SIGNATURE

33. The proposal must be made on this form provided for that purpose, unless otherwise stated, enclosed in a
34. sealed envelope and plainly marked: "Bid Enclosed - Date: and Time of bid opening, (envelope provided,) and
35. addressed to the Purchasing Agent, 1305 Hancock Street, Quincy, Massachusetts. If the bid is made by an
36. individual it must be signed by the full name of the bidder, whose address must be given; if it is made by a firm -
37. (partnership) - it must be signed with the co-partnership name and by a member of the firm, and the name and
38. residential address of each member of the firm must be given. If made by a corporation it must be signed by the
39. proper officer in the corporate name, and the corporate seal must be attached to such signature. A certificate under
40. oath authorizing the proposal or contract signature as legal and binding upon the corporation must be submitted
41. with the proposal, especially before a contract is issued. No telegraphic or telephonic proposal will be considered
42. or accepted.

43. III. PROPOSALS

44. Blank spaces in the proposal must be properly filled in, using ink, indelible pencil or typewriter. Alterations
45. by erasure or interlineation must be explained or noted in the proposal over the signature of the bidder. Unless
46. otherwise stated bids will be received on one or more or all items, and the bidder may name a lump sum conditional
47. on two or more items being awarded to him. Bidders are invited to be present at the opening of proposals. Bidders
48. must specifically quote on units as shown on specification sheet. In case of error in extension of prices, the unit
49. price will govern.

50. IV. QUANTITIES

51. The quantities given are approximate, meaning more or less and are herein given and attached and are a
52. Part of the bid and/or proposal.

1. V. QUOTATION OFFERED:

2. (a) Firm price bids will be given first consideration. The city desires to have the advantage of any general
3. price decrease effective during the life of the contract, Will you, if the successful bidder, so grant?

4. (b) All quotations must be properly and correctly extended against each unit price offered.

5. (c) Every quotation sheet must be labeled at the bottom right hand section with the bidder's firm name, This
6. identification shall not be considered as a signature.

7. (d) Upon signing and offering his or their bid to the City, it shall be considered that he has seen, read and
8. had in his possession a full and complete bid call, all forms and information pertaining thereto.

9. VI. SAMPLES

10. Whenever samples are required, and so stated in specifications, all samples will be received at sender's risk
11. and expense. However, if samples are used by or retained as City Property, other than those considered as gift or
12. free or so stated in proposal, they will be paid for at the quoted unit price as offered in the proposal. Otherwise, all
13. samples will be returned with postage paid by the City. All samples must be properly marked or tagged with
14. complete identification and to also include: (1) firm name, (2) firm address, (3) catalogue number, and (4) quoted
15. price.

16. VII. PRODUCT

17. (a) The product shall meet the requirements and satisfaction of the City of Quincy and the using and/or
18. ordering department, Bidders must state and identify the product offered, such as manufacturer's name, trade
19. name, brand name and quality under each item on which they bid. If brand names are not given under each item, it
20. shall be considered "NO BID." WE MUST KNOW WHAT HAS BEEN OFFERED.

21. (b) Unless otherwise stated in writing under "Detailed Specifications" all products, material,
22. commodities, supplies or articles herein called for must be brand new, unused and the latest product manufactured
23. in the current year of any name and nature, whenever offered. Used or rebuilt or shopworn materials will not be
24. acceptable, unless otherwise stated in writing by the City.

25. VIII. BRAND NAMES

26. Wherever brand names are given or their particular specifications are mentioned or referred to, it is not the
27. City's intent to limit competition, but merely to indicate to the bidder the general type of commodity to be supplied.
28. The City invites bids on comparable commodities in all cases. All specifications and its basis are: "Or Equal."

29. IX. TERMS

30. The cash discount period shall not be less than twenty (20) days. All prices quoted or offered shall be net
31. and delivered F.O.B. using or ordering department. The cash discount will not be considered for a deciding factor
32. when determining the low bidder.

33. X. DELIVERY

34. All deliveries shall be as required and requested according to the using and/or ordering department. All
35. goods must be delivered in first class condition, if otherwise, they are subject to rejection. All deliveries shall con-
36. form in every respect with all laws applicable to the Federal Government and/or the Commonwealth of
37. Massachusetts and/or the City of Quincy.

38. The contractor shall be responsible for the delivery of the full net weight or count at the point of delivery for
39. which payment is made. Check weighing may be made by the City or any authorized representative at the point of
40. delivery or at any other point the City may elect. All original sworn certificates of weights at origin shall be attached
41. to the contractor's certificate of weight at time and place of delivery. The same shall be surrendered to the City of
42. Quincy.

43. Should the successful bidder fail to make delivery within a reasonable time after receipt of order, the City
44. Reserves the right to make the purchase on such orders at the open market and charge any excess over contract price
45. to the account of the successful bidder, who shall pay the same.

46. XI. TAXES

47. A tax exemption certificate will be issued in lieu of any refundable tax. It is desired that all prices be
48. quoted, exclusive of any tax applicable to this transaction. Such tax or taxes should be itemized and shown as a
49. separate rare item, preferably in dollars and cents, in both the proposal and on the invoices covering deliveries on a
50. contract. If the tax is applicable to this transaction, and is not definitely shown in the bidder's quotation, then such
51. quotation will be considered to be exclusive of such tax.

1. XII. INVOICING

2. Every commodity invoiced must be identified with the item number opposite such commodity shown and
3. Given on our bid form. All unit prices must be shown against each commodity invoiced; if not, invoice will be
4. returned for such information. This information will expedite the payment of all invoices. Invoices which do not
5. carry a cash discount period shall be rendered once a month. All invoices shall be rendered in triplicate to the
6. Purchasing Department, 1305 Hancock Street, Quincy, Massachusetts 02169.

7. XIII. PAYMENTS

8. Complete or partial payment on the contract will be made in approximately thirty days from date of
9. delivery or completion and acceptance, unless otherwise provided for in bidder's proposal or under "Detailed
10. Specifications."

11. XIV. FORCE MAJEURE CLAUSE

12. (a) The contractor will be excused from the performance of the contract in whole or in part, only by reason
13. of the following causes:

14. 1. When such performance is prevented by operation of law.
15. 2. When such performance is prevented by an irresistible super human cause.
16. 3. When such performance is prevented by an act of the public enemies of the Commonwealth of
17. Massachusetts, or of the United States of America, or by strike, mob violence, fire, delay in transportation beyond
18. the control of the contractor, or unavoidable casualty.
19. 4. When such performance is prevented by the inability of the contractor to secure necessary materials,
20. supplies or equipment by reason of:

21. (a) Appropriation or use thereof by the Federal Government; or

22. (b) Regulations imposed by the Federal Government.

23. (b) No other Force Majeure Clause or conditions may pertain to or become a part of this bid; and any
24. changes in the conditions stated herein will cause the bid to be rejected.

25. XV. ERRORS AND OMISSIONS

26. The contractor shall not be allowed to take advantage of any errors and/or omissions in these specifications
27. or in the contractor's specifications submitted with his proposal. Full instructions will always be given when such
28. errors or omissions are discovered.

29. XVI. PATENT RIGHTS

30. The contractor agrees to save, keep, bear harmless and fully indemnify the City and any of its officers or
31. agents from all damages, costs, or expenses in law or equity that may at any time arise or to be set up for any
32. infringement of the patent rights of any person or persons in consequence of the use of the City, or by any of its
33. officers or agents, of articles supplied under this contract, and of which the contractor is not the patentee or
34. assignee, or which the contractor is not lawfully entitled to sell.

35. XVII. DEFINITIONS

36. The following meanings are attached to the defined words when used in these specifications and the
37. contract:

38. (a) The word "City" means The City of Quincy, Massachusetts.

39. (b) The word "Bidder" means the person, firm or corporation submitting a bid on these specifications or
40. any part thereof.

41. (c) The word "Contractor" means the person, firm or corporation with whom the contract is made by
42. carrying out the provisions of these specifications and the contract.

43. (d) The words "Firm Price" shall mean a guarantee against price increase.

44. (e) Additional definitions may appear hereinafter under "Detailed Specifications."

45. XVIII. AFFIDAVIT and/or AGREEMENT

46. In all instances, the Affidavit terms and agreement contained herein shall become a part of the bid, and/or
47. proposal and/or contract in fact and without any reservation or secret evasion whatsoever.

48. The bidder named in the proposal and who has signed the same and who submits herewith to THE CITY
49. OF QUINCY, MASSACHUSETTS, the attached proposal states and agrees:

50. That he, she or they is (are) the person(s) whose name(s) is (are) signed to there hereto attached proposal; that
51. said proposal is genuine; that the same is not sham or collusive; that all statements of fact therein are true; that
52. such proposal was not made in the interest of behalf of any person, partnership, company, association, organization
53. or corporation not therein named or disclosed.

1. Affiant further deposes and says: That the bidder has not directly or indirectly by agreement,
2. communication or conference with anyone attempted to induce action prejudicial to the interest of the public body
3. which is to award the contract, or of any other bidder, or anyone else interested in the proposed contract; that the
4. bidder has not in any manner sought by collusion to secure for himself, itself, themselves, an advantage over any
5. other bidder.

6. Affiant further deposes and says that prior to the public opening and reading of bids the said bidder:

7. (a) did not, directly or indirectly, induce or solicit anyone else to submit a false or sham bid;

8. (b) did not, directly or indirectly, collude, conspire, connive or agree with anyone else that said bidder or
9. anyone else would submit a false or sham bid, or that anyone should refrain from bidding or withdraw his bid;

10. (c) did not, in any manner, directly or indirectly, seek by agreement, communication or conference with
11. anyone to raise or fix the bid price of said bidder or of anyone else, or to raise or fix any overhead, profit or cost
12. element of his, its, their price or that of anyone else;

13. (d) did not, directly or indirectly, submit his, its, their bid price or any breakdown thereof, or the
14. contents thereof, or divulge information or data relative thereto, to any corporation, partnership, company,
15. association, organization, bid, depository, or to any member or agent thereof, or to any individual or group of
16. individuals, except to the awarding authority or to any person or persons who have a partnership or other financial
17. interest with said bidder in his, its, their business.

18. Bidder shall strike out words not appropriate to his bid and initial same.

19. XIX. INSURANCE

20. An approved and satisfactory bona fide certificate of insurance in effect, to protect the insured, the con-
21. tractor and the City of Quincy resulting from this agreement, must be submitted to the City of Quincy through the
22. Purchasing Agent before any work of any name or nature can be started. This insurance must cover workmen's
23. compensation, public liability and property damage. The certificate of insurance must clearly state thereon that it
24. is a Certificate of Insurance, name of the insured and his or their address, kind of policies in effect, number of the
25. policy in effect for identification purposes, expiration date of said policy, limits of liability expressed in dollar value
26. for one person, for one accident, also the aggregate for each person and each accident, description of operations or
27. work covered and in what State or Commonwealth. There must also be a statement under signature to the effect
28. that, "in the event of cancellation of the said policies the company will mail notice thereof to the City of Quincy
29. Purchasing Agent, at 1305 Hancock Street, Quincy, Massachusetts at whose request this certificate is issued." This
30. certificate must be properly dated and legally signed by an authorized agent for the insurance company. This
31. certificate must state the name of the insurance company as underwriter and its home office address. All insurance
32. must satisfy all legal requirements as set forth in the laws, rules and regulations of the Commonwealth of
33. Massachusetts.

34. XX. CONTRACT

35. (a) The bidder to whom the award is made will be required to enter into a written contract with the City of
36. Quincy, in the form approved by the City Attorney. All materials or services given or supplied by the Contractor
37. shall conform to the applicable requirements of the City Charter, City Ordinances, or Commonwealth of
38. Massachusetts laws covering Labor, Wages, Insurance, Safety and all other legal requirements of any name or
39. Nature, as well as conforming to the specifications contained herein. In case of default by the Contractor, the City
40. reserves the right to procure the articles or services from other sources and to hold the Contractor responsible for
41. any and all excess costs occasioned by the City thereby.

42. (b) The period to be covered by the contract will be found under "Detailed Specifications."

43. (c) The City makes no guarantee as to the quantities to be delivered under the terms of the contract.

44. (d) The City reserves the right to order small quantities at the quoted prices prior to the execution of the
45. contract, as samples, testing, trial orders otherwise without any liability or commitment on the part of the City
46. whatsoever.

47. (e) Any qualifications or special information can be listed on a separate sheet and attached hereto with
48. signature.

49. (f) Any and all city purchases made as samples, testing, trial orders or of similar nature shall not be
50. considered a breach of contract or give cause for any legal action or litigation.

51. (g) Specifications, conditions, and Information and Instructions to Bidders are here attached and are a
52. part of the bid and/or proposal.

PROPOSAL TO CITY OF QUINCY, MASSACHUSETTS

1. To the Purchasing Agent
2. City of Quincy, Massachusetts

3. Date offered: _____ 20 _____

4. Gentlemen:

5. The undersigned hereby proposes to furnish the City of Quincy, complete or any part thereof, the listed services,
6. articles, commodities and materials, all in accordance with the attached list, conditions, specifications and the Information
7. and Instructions to Bidders made a part hereof.

8. The undersigned furthermore agrees that he will execute the necessary and satisfactory bond together with
9. necessary contract in sextuplicate within ten (10) days from the date when he shall have been notified that his proposal
10. has been accepted in whole or in part by the City of Quincy.

11. The undersigned furthermore agrees that, in case of default in executing such contract, with necessary bond, that
12. the check accompanying this bid, and the money payable thereon, shall be fortified thereby to and remain the property
13. of the City of Quincy.

14. This offer and/or proposal has been given after having had the complete bid call to work from and considered
15. the same.

16. This offer and bid has been made and given all in accordance with Article and Paragraph Number Eighteen
17. (XVIII) and made a part hereof.

18. TERMS:

- 19. (a) The discount period shall not be less than twenty (20) days.
- 20. (b) The City will receive the benefit of any general price decrease effective during the life of the contract.
- 21. (c) The City will be notified of all price decreases.
- 22. (d) This is a *firm price* meaning guarantee against price increase.
- 23. (e) Delivered F.O.B. to using department, as directed.

24. (f) This offer to be accepted on or before _____ 20 _____

25. Delivery Offered: _____

26. Priority Required: _____

27. Firm Name: _____

28. Signed by: _____
Signature and Title Corporate Seal or L.S.

29. Address: _____

30. Signature of Partners: 1. _____ 2. _____

31. " " " 3. _____ 4. _____

32. Name of Corporation President: _____

33. Name of Corporation Secretary: _____

34. Corporation organized under State of: _____ Date: _____

35. Partner's Residential Address:

36. 1. _____

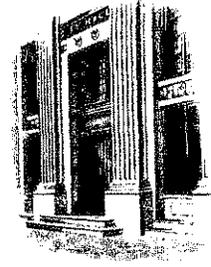
37. 2. _____

38. 3. _____

39. 4. _____



City of Quincy
City Hall
1305 Hancock Street
Quincy, Massachusetts 02169
Purchasing Department



THOMAS P. KOCH
Mayor

Kathryn R. Hobin
Purchasing Agent
Phone: (617) 376-1060
Fax: (617) 376-1074

Certificate of Non-Collusion

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the work "person" shall mean any natural person, business, partnership, corporation, union committee, club or other organization, entity or group of individuals.

Name: _____

Address: _____

City, Town & Zip: _____

Email #: _____

Name of Business: _____



CITY OF QUINCY
Purchasing Department
1305 Hancock Street, Quincy, MA 02169

Phone: 376-1060

Fax: 376-1074

TAX COMPLIANCE CERTIFICATE

MASS. GENERAL LAWS, CH. 62C, S: 49A(b)

I hereby certify that I have complied with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding of child support.

Signed under the pains and penalties of perjury.

(1) Individual Contractor

(Contractor's Name and Signature)

Social Security Number

(2) Corporation, Association
or Partnership

(Contractor's Name)

Federal Tax ID Number, or
Social Security Number

By:

(Authorized Signature)

Note to Contractor: Please sign at (1) or (2), whichever applies.

CHAPTER 62C. ADMINISTRATIVE PROVISIONS RELATIVE TO STATE TAXATION

Chapter 62C: Section 49A Certification of compliance with tax laws as prerequisite to obtaining license or governmental contract

Section 49A. (a) Any person applying to any department, board, commission, division, authority, district or other agency of the commonwealth or any subdivision of the commonwealth, including a city, town or district, for a right or license to conduct a profession, trade or business, or for the renewal of such right or license, shall certify upon such application, under penalties of perjury, that he has complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support. Such right or license shall not be issued or renewed unless such certification is made.

(b) No contract or other agreement for the purposes of providing goods, services or real estate space to any of the foregoing agencies shall be entered into, renewed or extended with any person unless such person certifies in writing, under penalties of perjury, that he had complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

(c) Any such agency, which has been notified by the commissioner pursuant to section forty-seven A that a person who holds a license or certificate of authority issued by such agency or who has agreed to furnish goods, services or real estate space to such agency has neglected or refused to file any returns or to pay any tax required under this chapter and that such person has not filed in good faith a pending application for abatement of such tax or a pending petition before the appellate tax board contesting such tax or has been penalized pursuant to section 9 of chapter 62E for failure to comply with the provisions under said chapter 62E relating to reporting of employees and contractors, or has been penalized pursuant to paragraph (3) of subsection (f) of section 12 of chapter 119A for failure to comply with the provisions under said chapter 119A relating to withholding and remitting child support, shall refuse to reissue, renew or extend such license, certificate of authority, contract or agreement until the agency receives a certificate issued by the commissioner that the person is in good standing with respect to any and all returns due and taxes payable to the commissioner as of the date of issuance of said certificate, including all returns and taxes referenced in the initial notification or, if the licensee has been penalized for failure to comply with the provisions relating to reporting of employees and contractors under chapter 62E or withholding and remitting child support under chapter 119A, a certificate issued by the commissioner that the licensee is in compliance with said provisions.

(d) Any person who owns or leases a motor vehicle or trailer that is required to be registered in the commonwealth under chapter 90 and improperly registers the motor vehicle or trailer in another state or misrepresents the place of garaging of the motor vehicle or trailer in another city or town, shall be considered in violation of laws of the commonwealth relating to taxes under chapter 60A, chapter 64H or chapter 64I. The right, license or contract provided for in subsections (a) and (b) shall not be issued or renewed until the person or business entity has paid all taxes due at the time of application for such right, license or contract.

(e) Any person who, for the purpose of evading payment of a tax pursuant to chapters 59 to 64J, inclusive, willfully makes and subscribes any return, form, statement or other document pursuant to subsection (a), (b) or (d) that contains or is verified by a written declaration that is made under the penalties of perjury, and that contains information that he does not believe to be true and correct as to every matter material to his compliance with all laws of the commonwealth relating to taxes, shall be subject to section 73.



CITY OF QUINCY
Purchasing Department
1305 Hancock Street, Quincy, MA 02169

Phone: 376-1060

Fax: 376-1074

SIGNATURE AUTHORIZATION

At a duly authorized meeting of the Board of Directors of the

(NAME OF CORPORATION)

held on _____, at which all the Directors were present or waived notice, it was
(DATE)

VOTED, that:

(NAME)

(OFFICER)

of this company, he and he/she hereby is authorized to execute Contracts and Bonds in the name and behalf of said Company, and affix its Corporate Seal thereto, and such execution of any Contract or obligation in this Company's name on its behalf by such _____ under seal of the Company, shall be valid
(OFFICER)

and binding upon this Company. It was further voted that the City of Quincy may rely on such authorization of future Contracts until notified to the contrary.

A true copy,

ATTEST: _____
(CLERK'S SIGNATURE)

PLACE OF BUSINESS: _____

DATE OF THIS CONTRACT: _____

I hereby certify that I am the Clerk of the:

_____ that _____ is the
(COMPANY) (NAME)

duly elected _____ of said Company, and that the above VOTE has not been
(TITLE)

amended or rescinded and remains in full force and effect as of the date of this Contract.

_____ CORPORATE SEAL

CERTIFICATION RELATING TO DEBARMENT AND SUSPENSION

The undersigned contractor certifies to the City of Quincy that neither it nor its principals, officers or any affiliated entities has been debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction in accordance with the requirements of OMB Circular A-87 and with Executive Order 12549, "Debarment and Suspension."

Furthermore, the contractor certifies that it shall not make any subcontract or permit any subcontract to be made with any party which is debarred or suspended or is otherwise excluded in accordance with said OMB Circular and with Executive Order 12549.

This certification shall be for the benefit of the City of Quincy and its successors and/or assigns and is binding upon the contractor, its successors and assigned.

Executed under seal this _____ day of _____, _____.

Contractor Name
By its duly authorized agent,

Contract Number _____

(Authorized Signature)

INDEMNITY AGREEMENT

In consideration of the award of Contract No. _____
by the City of Quincy, hereinafter referred to as INDEMNITEE, to the CONTRACTOR/BIDDER:

hereinafter referred to as INDEMNITOR, and for other good and valuable consideration, said
INDEMNITOR agrees to hold INDEMNITEE, City of Quincy, and its various department and
employees harmless from any and all liability, loss or damage that INDEMNITEE may suffer as the
result of claims, demands, costs, including attorneys fees, or judgement or other actions against it by
reason of any and all work done by or on behalf of the INDEMNITOR in connection with the above-
referenced contract.

INDEMNITOR,

By Duly Authorized Agent

Date: _____

**CERTIFICATION OF GENERAL BIDDERS ON PUBLIC CONSTRUCTION
PROJECTS**

I. CERTIFICATION REGARDING HEALTH AND SAFETY

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least ten hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations application to awards made subject to section 44A.

II. CERTIFICATION REGARDING NON-COLLUSION AND DEBARMENT

The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

Date: _____

Name of General Bidder

By _____
Signature

Print name and title

Business Address

Street Address City and State

**CERTIFICATION OF SUB- BIDDERS (IF ANY) ON PUBLIC CONSTRUCTION
PROJECTS**

I. CERTIFICATION REGARDING HEALTH AND SAFETY

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupation Safety and Health Administration that is at least ten hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards of subcontracts subject to section 44F.

II. CERTIFICATION REGARDING NON-COLLUSION AND DEBARMENT

The undersigned further certifies under penalties of perjury that this subbid is in all responses bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

Date _____

Name of Sub-bidder

By _____
Signature

Print Name and Title

Business Name

Street Address, City and State

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Demolition Plan

**SECTION 01010
SUMMARY OF WORK**

PART 1 – GENERAL

1.01 PROJECT IDENTIFICATION

- A. The name of the Project is the American Legion Hall Remediation and Demolition - 27 Revere Road, Quincy, MA.

1.02 SCHEDULE AND PHASING

- A. The Contractor will be required to submit a schedule per Section 01300.
- B. The Contractor shall complete the work of this contract within 75 calendar days of receiving Notice to Proceed. The City may extend the Contract Time should coordination with the Town Brook Enhancement project or other City of Quincy projects necessitate an extension. Contract extensions shall be at the discretion of the City of Quincy.
- C. The Contractor shall coordinate his schedule with other projects that may be conducted concurrently by the City of Quincy, including the Town Brook Enhancement Project. No additional compensation will be considered for delays or scheduling issues due to coordination with the Town Brook Enhancement project or other City of Quincy projects.
- D. The Contractor shall comply with all provisions of the Order of Conditions dated August 9, 2011 and the Superseding Order of Conditions dated December 2, 2011 for the Town Brook Enhancement Project, including the referenced Notice of Intent (NOI) Plans. The Contractor shall also comply with the forthcoming Final Order of Conditions.
- E. In accordance with referenced documents and the requirements of the Department of Marine Fisheries, the Contractor shall not cause or allow any discharge to Town Brook during the smelt run between March 1 and June 30.

1.03 DESCRIPTION OF WORK

- A. The City of Quincy wishes to demolish the American Legion Hall building at 27 Revere Road. Prior to demolition, asbestos abatement and hazardous material abatement is required. All wastes will be managed by the Contractor in accordance with applicable federal, state, and local regulations.
- B. Where Work is described, but not specifically located and/or shown on the Drawings, the Contractor shall determine the exact location and extent of the Work.
- C. The Work contemplated by the Contract Documents includes the Work of all trades required and all labor, equipment, materials, and supervision necessary and incidental to the Work indicated. The description of the Work in this Section represents a brief summary of the project. For additional and more complete information, refer to the Drawings and Specifications.
- D. The Work includes all miscellaneous costs associated with completion of work in accordance with the Construction Documents. This shall include, but not be limited to, incidental shoring,

barricades, cleanup, dust and fume control, layout, equipment, waste disposal, documentation, obstruction removal and replacement, temporary heat, sound barriers, etc.

1.04 **VERIFICATION**

- A. Verify all site conditions and dimensions by field measurements. Contractor shall base his bid on actual field conditions. Notify the Engineer and Owner immediately of any inconsistency between field conditions found and those shown in Contract Drawings.

1.05 **CODES, STANDARDS AND PERMITS**

- A. The proposed demolition work is in regulated jurisdictional areas and shall not commence until all required permits are approved for the Town Brook Enhancement Project. Interior abatement work may proceed with appropriate approvals and notifications for that work.
- B. All work under this Contract shall conform to all codes and standards in effect as of the date of receipt of Bids which are applicable to this Project. All work shall further conform to specific requirements and interpretations of local authorities having jurisdiction over the Project. These codes, standards and authorities are referred to collectively as "the governing codes and authorities", and similar terms, throughout the Specifications. Determination of applicable codes and standards, and authorities having jurisdiction, shall be the responsibility of the Contractor, as shall be the analysis of all such codes and standards with regard to their applicability to the Project. In the case of conflicts between the requirements of different codes and standards, the most restrictive or stringent requirements shall be met.
- C. Code Enforcement and Approvals: The Contractor shall pay for and secure the general building permit for the work, and Contractor shall conform to all conditions and requirements of the permit and code enforcement authority. Contractor shall provide names and license numbers of its responsible representatives to complete application for permit, and shall receive permit and promptly distribute copies thereof to Owner and Engineer.
- D. Contractor shall identify all permits, including the general building permit, required from authorities having jurisdiction over the Project for the construction of the Project, shall prepare the necessary applications and submit required plans and documents to obtain such permits in a timely manner, and shall pay all fees and charges in connection therewith.
1. Contractor shall display all permit cards as required by the authorities, and shall deliver photocopies of all permits to the Owner and Engineer promptly upon receipt.
 2. Contractor shall arrange for all inspections, testing and approvals required for all permits, and shall notify the Owner and Engineer of such inspections at least three business days in advance, so they may arrange to observe.
 3. Contractor shall comply with all conditions and provide all notices required by all permits.
 4. Contractor shall perform and/or arrange for and pay for all testing and inspections required by governing codes and authorities, other than those provided by the Owner, and shall notify the Owner and Engineer of such inspections at least three business days in advance of all such testing or inspection, so they may arrange to observe.

5. Where inspecting authorities require corrective work in conjunction with applicable codes and authorities, Contractor shall promptly comply with such requirements, except in cases in which requirements clearly exceed the requirements of the Contract Documents in which case the Contractor shall proceed in accordance with the procedures for modifications or changes in the work established in the Contract Documents, as amended.

1.06 **CONTRACTOR'S USE OF PREMISES**

- A. All work must be coordinated with the City of Quincy.
- B. The City of Quincy may direct the Contractor to cease work if the work will interfere with other concurrent projects. The Contractor shall not be entitled to any additional payment due to coordination with other City of Quincy projects.
- C. The General Contractor shall keep all public and private access roads and walks clear of debris caused by this work during the entire term of the Contract, except where portions of public walks and/or roadways are closed consistent with the approved Traffic Management Plan. He shall repair all public and private streets, drives, curbs, walks, and other improvements where disturbed by work of this project.
- D. No parking will be provided on the Site for the personal vehicles of employees. Contractor may use municipal parking lots at his expense.
- E. The General Contractor shall endeavor at all times to maintain as low a level of construction noise as practicable in order not to create a disturbance in the neighborhood.
 1. All workers on the project are required to conduct themselves in a professional manner. Abusive or obscene language will not be tolerated. No obscene gestures, whistles, or cat-calls will be allowed. No soliciting or harassing any person for any reason. The Owner reserves the right to have any worker barred from the construction site.
 2. Use of alcohol or drugs is prohibited. Smoking is prohibited.
 3. Workers shall wear shirts at all times.
- F. Work shall be conducted during normal working hours, 7:00 am to 5:00 pm, Monday through Friday. Any work outside these hours is subject to approval by the City of Quincy. The Traffic Management Plan may impact allowable hours of some activities.
- G. The Site shall be maintained in a safe, orderly condition at all times.
- H. As a condition of Substantial Completion, restore any areas off the site damaged by work under this Contract to their condition existing condition at the start of the work unless otherwise directed by the Owner.
- I. The Contractor is responsible for incorporating climate and weather conditions normally experienced in the locale of the project. The Contractor is responsible for meeting the completion date and the contract completion date will not be extended for reasonably anticipated weather and climate events.
- J. The General Contractor is responsible for all snow removal on the Site if required.

1.07 **EXAMINATION OF SITE**

- A. Prior to bidding the Contractor shall carefully examine the site and the Contract Documents to ensure their knowledge of conditions and requirements affecting the work. No claim for extra compensation or extension of time will be allowed for the Contractor's failure to comply with this requirement nor will any condition at the site, whether or not in agreement with conditions shown or called for on the Contract Documents, be allowed as a basis or such claims, except as otherwise specifically provided for.

1.10 Basis for Payment

- A. All of the work of this Section is incidental to the Lump Sum Contract Price.

PART 2 – PRODUCTS

Not used.

PART 3 – EXECUTION

Not used.

END OF SECTION

**SECTION 01300
SUBMITTALS**

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section specifies administrative and procedural requirements for submittals required for performance of Work.
- B. Administrative Submittals: Refer to requirements specified in other Division 1 Specification Sections and other Contract Documents for administrative submittals, including, but not limited to:
 - 1. Permits.
 - 2. Applications for payment.
 - 3. Performance and payment bonds.
 - 4. Insurance certificates.
 - 5. List of subcontractors.

1.02 RELATED REQUIREMENTS

- A. Examine Contract Documents for requirements that affect Work of this Section. Other Specification Sections that directly relate to Work of this Section include, but are not limited to:
 - 1. Section 01010 – Summary of Work.
 - 2. Section 01500 – Construction Facilities and Temporary Controls
 - 3. Section 01570 – Traffic Management Plan
 - 4. Section 02040 – Construction Noise and Odor Control
 - 5. Section 02050 – Demolition Dust Control
 - 6. Section 02051 – Demolition of Building
 - 7. Section 02052 – Pest Control
 - 8. Section 02054 - Hazardous Material Abatement
 - 9. Section 02055 – Soil Materials
 - 10. Section 02080 – Asbestos Abatement

11. Section 02090 – Lead Based Paint Management
12. Section 02277 – Erosion Control

1.03 **SUBMITTAL PROCEDURES**

- A. Coordination of Submittals: Coordinate preparation and processing of submittals with related construction activities. Transmit submittals sufficiently in advance of performance of Work to avoid delays.
 1. Engineer may reject, or withhold action on submittals requiring coordination with other submittals until related submittals are received.
- B. Processing of Submittals: Allow sufficient review time to ensure installation will not be delayed because of time required to process submittals. Minimum processing times are as follows:
 1. Review by Engineer's Office Only: Allow fifteen (15) business days for review and processing
 2. Review by Engineer and Consultant: Allow fifteen (15) business days for review and processing of submittals by Architect, and an additional ten (10) business days for review by each consultant.
 3. Reprocessing of Submittals: For submittals not approved initially, allow ten (10) business days for review and reprocessing of submittals by Engineer, and an additional five (5) business days for review by each consultant.
 4. No extension of Contract Time will be authorized due to failure to transmit submittals sufficiently in advance of scheduled performance of Work.
- C. Contractor's Preparation of Submittals: Place permanent label or title block on each submittal for identification. Indicate Project Name, Owner's Project Number, Specification Section number and title, date of submittal, name and address of Engineer, name and Address of Contractor, name and address of subcontractor and/or supplier, name of manufacturer, and Specification number.
 1. Contractor's Review and Action Stamp: Provide suitable space on label or title block for Contractor's review and action stamp. Stamp and sign each submittal to show Contractor's review and approval prior to transmittal to Engineer. Submittals not signed and stamped by Contractor will be returned without action.
 2. Only submittals received from the General Contractor will be considered for review by the Engineer. All submittals prepared by subcontractors or suppliers shall be processed through the Contractor. The Contractor shall review each submittal carefully for accuracy and conformance with the requirements of the Contract Documents, and particularly for field measurements and proper fit with adjoining work, and shall affix a stamp containing the following wording, or a similar statement approved in advance by the Engineer:

"APPROVED FOR CONFORMANCE WITH THE
CONTRACT DOCUMENTS.

All Dimensions and Quantities Have Been Reviewed and Are Accepted by
<Here insert name of General Contractor>. All Dimensions and Field
Conditions Have Been or Will Be Verified PRIOR to Fabrication of the Items
Described Herein.”

3. Submittals shall be signed by a responsible representative of the Contractor. Items not bearing an acceptable certification will be returned unchecked. Submittals improperly prepared or inadequately reviewed by the Contractor will be returned unchecked. Claims for delay due to the return of uncertified, improperly prepared, or inadequately reviewed submittals will be rejected.
 4. Engineer's Review and Action Stamp: Provide minimum 4 in. x 4 in. space on label or title block for Engineer's review and action stamp. Deliver submittals to Engineer at address listed on cover of Project Manual.
 5. Modify and customize submittals as required to show interface with adjacent work and attachment to building.
- D. Transmittal of Submittals: Transmit each item with a transmittal form. Identify Project, Contractor, subcontractor, and major supplier; identify pertinent Specification section number, as appropriate, on transmittal form.
1. Source: Submittals received from sources other than Contractor will be returned without action.
 2. Deviations from Contract Documents: When products, materials, or systems submitted deviate from Contract Documents, record deviations clearly on transmittal form, or separate attached sheet.
- E. Comply with progress schedule for submittals related to Work progress.
- F. After Engineer reviews submittal, revise and resubmit as required. Identify changes made since previous submittal. Changes not marked will be treated as having not been made, even if change is consistent with Contract Documents.
- G. Distribute copies of reviewed submittals to concerned persons. Instruct recipients to promptly report inability to comply with provisions.

1.04 **CONSTRUCTION PROGRESS SCHEDULE**

- A. Timing: Submit Construction Progress Schedule within fifteen (15) calendar days of Award of Contract.
- B. Preparation of Construction Progress Schedule: Prepare individual fully developed, bar chart construction schedule.
- C. Format of Listings: Order chronologically by start of each unit of Work. List units of Work by Specification Section title.
- D. Content of Construction Progress Schedule: Show complete sequence of construction by activity. Show dates of beginning and completion of each major element of construction.

- E. Distribution: Print and distribute Construction Progress Schedule to Engineer, Owner, subcontractors, and other parties affected. Provide an electronic copy on diskette to the Engineer. Post copies in field office. Instruct recipients to report promptly to Contractor in writing problems apparent from projections shown on schedule.
- F. Revisions: Update and reissue Construction Progress Schedule monthly in conjunction with Application for Payment. Submit an updated electronic copy on diskette to the Engineer each month.
- G. Progress schedule, submittal schedule, and schedule of values shall be submitted simultaneously with each application for payment. Payment will be contingent on approval of these submittals.

1.05 **SUBMITTAL SCHEDULE**

- A. Within fifteen (15) calendar days following the award of the Contract, the Contractor shall submit a detailed Schedule of Submittals, identifying the date by which the submittals required under each Section of the Specifications, including Administrative Submittals required in this Section or elsewhere, will be delivered to the Engineer. The schedule shall relate submittals to the orderly progress of the work, indicating critical dates for approval of materials.
- B. In preparing the schedule, the Contractor shall allow reasonable time for normal checking and processing of each submittal or resubmittal.
- C. Content of Submittal Schedule: Prepare schedule in order by Specification Section. Provide the following information for each submittal:
 - 1. Scheduled date of initial submittal.
 - 2. Specification Section number.
 - 3. Submittal type.
 - 4. Name of subcontractor or supplier.
- D. Upon approval of this schedule by the Engineer, The Contractor shall ensure that all submittals are properly prepared and delivered to the Engineer by the scheduled dates. Failure to adhere to the Schedule of Submittals may be considered by the Engineer in reviewing the progress of the work for purposes of approving payments or evaluating claims for delays or additional cost.
- E. Contractor shall use a computerized system for tracking the submittal process. Software systems similar to Expedition or Prolog will be acceptable. The system shall uniquely number and track each submittal. At a minimum, the following reports shall be published on a biweekly basis: complete listing of required submittals, complete listing of submittals to date, complete listing of approved submittals, complete listing of rejected submittals, complete listing of submittals returned for correction, both with and without resubmittal required, and listing of outstanding submittals. Reports shall be capable of being sorted by approval status, by subcontractor/supplier, by submission date and by days late, days under review, etc.

- F. Update the submittal schedule periodically as the work progresses. Submit an updated copy of the Submittal Schedule as part of each application for payment.
- G. Distribution: Print and distribute Submittal Schedule to Engineer, Owner, subcontractors, and other parties affected. Post copies in field office.
- H. Revisions: Update and reissue Submittal Schedule monthly in conjunction with Application for Payment.

1.06 **PRODUCT DATA**

- A. Definition: Product data includes manufacturer's standard published literature, such as installation instructions, catalog cuts, color charts, rough-in diagrams, and wiring diagrams. When product data must be prepared specifically because standard published data is not suitable for use, submit as shop drawing.
- B. Preparation: Mark each copy of product data to show applicable choices and options. Where published product data includes information on several products and choices, mark copies to clearly indicate information applicable to this Project.
- C. Do not submit product data until compliance with requirements of Contract Documents has been confirmed.

1.07 **SAMPLES**

- A. Submit samples identical with materials and products to be installed. Where indicated, prepare samples to match Engineer's sample. Label sample with description, source, manufacturer's name, and catalog number. Submit samples along with certifications that products comply with referenced standards.
- B. Engineer Review: Engineer will review samples for confirmation of visual intent, color, pattern, texture, and type. Engineer will not test samples for compliance with other specified requirements, which shall remain exclusive responsibility of Contractor. Submit two samples to Engineer.
- C. Distribution: Distribute additional sets of approved samples to subcontractors, suppliers, installers, and others required for proper performance of Work. Indicate distribution on transmittal forms.

1.08 **DAILY PROGRESS REPORTS**

- A. Prepare daily construction Progress Reports. Record following information concerning events on Project Site:
 - 1. List of subcontractors at site.
 - 2. General weather conditions.
 - 3. Accidents and unusual events.
 - 4. Meetings and significant decisions.
 - 5. Orders and requests by governing authorities.

6. Change orders received.
7. Equipment or system tests and start-ups.
8. Partial completions and occupancies.
9. Authorized substantial completions.
10. Visitors.
11. Manpower by trade and by Contractor.
12. Work performed.

B. Distribution: Distribute copies to Engineer weekly.

1.09 **WEEKLY REPORTS**

A. Beginning immediately after starting work on the Project, submit a weekly report on each Monday before 12:00 noon for all work performed the previous week. Each report shall be prepared and signed by the Contractor's Superintendent, and shall contain the following information:

1. Contractor: the type of materials and/or major equipment being installed and the average number of employees working in each category that particular week. Payroll records shall be submitted showing wages paid in conformance with minimum wage rates in effect.
2. Subcontractors: the names of the subcontractors working and the type of materials and/or major equipment being installed by each, together with the average number of employees of each subcontractor working in each category that particular week.
3. Equipment: the Contractor's construction equipment on site. Identify as idle or approximate hours in use, rental or owned.

1.10 **SCHEDULE OF VALUES**

- A. Timing: Submit Schedule of Values allocated to the various portions of the Work within ten (10) working days after award of Contract.
- B. When requested by Engineer, submit substantiating data supporting the values submitted.
- C. Intent: Unless objections are stated by Engineer, the Schedule of Values will be used as the basis for the Contractor's Applications for Payment.
- D. Refer to Section 01027 – Applications for Payment for requirements for form and content of Schedule of Values.

1.11 **ENGINEER'S ACTION**

A. General: Engineer will review submittals, stamp and indicate action, and return to Contractor. Engineer will review submittals for conformance with design intent only. Engineer's review and approval of submittals shall be held to limitations stated in the Conditions of the Contract.

In no case shall approval or acceptance by Engineer be interpreted as release of Contractor of responsibility to fulfill requirements of Contract Documents. No acceptance or approval of submittals, nor any indication or note marked by Engineer on submittals, shall constitute authorization for increase in Contract Sum.

- B. Stamp indicates action taken as follows:
1. "NO EXCEPTIONS TAKEN": No corrections, no marks: Resubmission not required.
 2. "MAKE CORRECTIONS NOTED": Minor amount of corrections; all items can be fabricated without further corrections to original submittal; checking is complete and all corrections are deemed obvious without ambiguity. Resubmission not required.
 3. "REVISE AND RESUBMIT": Minor corrections required; items noted shall not be fabricated until further corrections of original submittal is completed and Engineer-approval is obtained; checking is complete; clarify details of items noted by checker for approval. Resubmission is required. Do not fabricate.
 4. "REJECTED": Submittal does not conform to Contract Documents, and requires too many corrections, or is rejected for other justifiable reasons. Engineer will state reasons for rejection. Correct and resubmit. Do not fabricate.
- C. Other Action: Submittal for information or record purposes will be returned with no action marked.
- D. Required Resubmittals: Make corrections or changes to submittals required by Engineer and resubmit until approved. Revise initial shop drawings or product data, and resubmit as specified for initial submittal. Indicate changes made other than those requested by Engineer. Submit new samples as required for initial submittal.

1.12 REPETITIVE REVIEW

- A. Shop Drawings, Product Data, and Samples submitted for each item will be reviewed no more than two times at Owner's expense. Submittals failing to comply with Contract requirements will be reviewed at times convenient to the Engineer and its consultants and at the Contractor's expense, based upon a flat rate of \$125 per hour. Contractor shall reimburse Owner for such additional submittal reviews monthly, and the Owner reserves the right to deduct said reimbursement from Contractor's periodic application for payment and the Contract Sum.

1.13 OSHA SAFETY AND HEALTH COURSE DOCUMENTATION

- A. OSHA Safety and Health Course Documentation Records: Chapter 306 of the Massachusetts Acts of 2004 requires that everyone employed at the jobsite must complete a minimum 10-hour long course in construction safety and health approved by the U.S. Occupational Safety and Health Administration (OSHA) prior to working at the jobsite. Compliance is required of contractors' and subcontractors' on-site employees at all levels whether stationed in the trailer or working in the field. Unless the Massachusetts Attorney General's office indicates otherwise, this requirement does not apply to home-office employees visiting the site or to suppliers' employees who are making deliveries.
- B. Documentation records shall be initially compiled by the Contractor and Subcontractors as part of their certified payrolls, and the Contractor shall create and maintain a copy of the

documentation on site at all times. On-site documentation shall be filed in alphabetical order and immediately available to Massachusetts inspectors, OSHA inspectors, and the Owner's representatives. Fines imposed for non-compliance shall be promptly paid by the Contractor at no additional expense to the Awarding Agency. Delays in the progress of the Work caused by such non-compliance will not be acceptable as the basis for an extension of contract time or change order request.

- C. Contractor shall submit a Safety Plan for Owner's review. The Safety Plan shall outline the guidelines that the Contractor proposes to follow. Provide contact information in case of an emergency. Outline the use of safety equipment on the jobsite and provide a narrative of how the Safety Plan will be enforced.

PART 2 – PRODUCTS

Not used.

PART 3 – EXECUTION

Not used.

END OF SECTION

**SECTION 01500
CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS**

PART 1 GENERAL

1.1 SUMMARY

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS which are hereby made a part of this Section of the Specifications.
- B. The Contractor shall coordinate the work of this Section with Section 01570 Traffic Management Plan and other Sections.

1.2 REQUIREMENTS

- A. Sanitary Facilities
- B. Construction Barriers

1.3 SANITARY FACILITIES

- A. The General Contractor shall provide suitable toilet facilities for its staff, the Engineer, and additional facilities for workmen on the job, including personnel of sub-contractors.
- B. Provide chemical toilets where work is in progress and in quantity required by OSHA Code.
- C. Chemical toilets and their maintenance shall meet requirements of state and local health regulations and shall be subject to approval by the Engineer and the Owner.

1.4 CONSTRUCTION BARRIERS

- A. The Contractor shall install and maintain fencing as required for site security.
- B. The Contractor shall provide locked gates at the entrances to the work site, and shall control access to the Site for the duration of the Contract.
- C. The Contractor shall provide traffic cones, ribbons, tapes, wood barriers, warning signs, directional signs and other traffic material to keep traffic from area of construction, consistent with the Contractor's Traffic Management Plan.

END OF SECTION

**SECTION 01570
TRAFFIC MANAGEMENT PLAN**

PART 1 GENERAL

1.1 SUMMARY

- A. The Contractor shall prepare a Traffic Management Plan for review by the Engineer and the City of Quincy to address potential lane closures on Mechanic Street and Revere Road. The Plan shall also address pedestrian traffic.
- B. The Traffic Management Plan shall be coordinated with the Traffic Management Plan for the Town Brook Enhancement Project.
- C. The work consists of providing daily lane closures for purposes of safely directing traffic, by approved methods, away from and/or through areas affected by the Contractor's operations. The work shall be done in accordance with the approved Traffic Management Plan or as directed by the Engineer.
- D. The work shall include furnishing, installing positioning, repositioning and maintaining various traffic control devices for the protection of the traveling public and working personnel during construction operations in compliance with the plans, specifications and as directed by the Engineer.
- E. The Contractor shall be available, at no additional compensation, 24 hours per day, 7 days per week, for the duration of the project, to immediately reset or replace any damaged or displaced traffic control devices, as directed by the Engineer.

1.2 MEASUREMENT AND PAYMENT

- A. The Traffic Management Plan, Traffic Management Activities, and Safety Controls shall be incidental to the Lump Sum Contract Price.

END OF SECTION

**SECTION 02040
CONSTRUCTION NOISE AND ODOR CONTROL**

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The CONTRACT AND GENERAL CONDITIONS and applicable parts of Division 1 are hereby made part of this Section.
- B. Examine all other Sections of the specifications for requirements which affect Work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with that of all other trades affecting, or affected by Work of this Section. Cooperate with such trades to assure the steady progress of all Work under the Contract.

1.02 SUMMARY

- A. This section includes requirements for controlling odors generated during Work of this Contract. The Contractor is responsible for controlling hazardous odors and nuisance odors encountered or created during Work of this Contract. The Contractor shall also investigate odor complaints, ascertain the odor source, and promptly implement appropriate odor control measures.
- B. This section includes the control of all sound and vibration originating within the limits of the project. Compliance with this section may require the use of equipment with efficient noise reduction devices or enclosures, construction of temporary noise barriers, and scheduling of activities to avoid noise sensitive time periods.

1.03 RELATED WORK SPECIFIED IN OTHER SECTIONS

- A. Section 02050 – Construction Dust Control and Site Sanitation for Pest Control

1.04 SUBMITTALS

- A. Make submittals per the provisions in Division 1.
- B. Prior to the use of any odor suppression agent, submit literature and a Material Safety Data Sheet to the Engineer.
- C. Furnish monitoring results and logs of complaints as requested by the Owner.

1.05 REFERENCES AND STANDARDS

- A. The Contractor shall perform work in compliance with the Massachusetts Department of Environmental Protection, Code of Massachusetts Regulations (CMR) 310 CMR 7.00, "Air Pollution Control Regulations" specifically 310 CMR 7.09, "Dust, Odor, Construction and Demolition" and 310 CMR 7.11, "Transportation Media."

1.06 PERFORMANCE REQUIREMENTS

A. Noise Limits

1. The Contractor shall meet all applicable noise limits at the Site and at the lot line. The Contractor shall demonstrate that the work meets all state and local requirements and ordinances. The Contractor shall provide evidence of compliance to the Engineer and the Owner.
2. Work shall be performed in a manner to limit nuisance conditions such as noise which exhibits a specific readily audible frequency or tone, or impact noises.

PART 2 - MATERIALS

2.01 ODOR SUPPRESSION AGENTS

- A. Odor suppression agents shall be water soluble, non-toxic, non-reactive, and non-volatile.
- B. The use of petroleum based products for odor suppression is strictly prohibited for this Project.

2.02 NOISE MONITORING EQUIPMENT

- A. All noise measurements shall be performed with an instrument that is in compliance with the criteria for a Type 1 (Precision) or Type 2 (General Purpose) Sound Level Meter as defined in the current revision of ANSI Standard S1.4.
- B. The sound level meter shall be capable of measuring dBA noise levels and operating on the SLOW respond setting.
- C. Sound level meters shall be capable of measuring Lmax and L10.
- D. All sound level meters, microphones, and calibrators shall undergo certified laboratory calibration conformance testing at least once a year.
- E. The sound level meter shall be on-site and readily accessible at all times.

2.03 NOISE REDUCTION MATERIALS AND EQUIPMENT

- A. Noise reduction materials may be new or used. Used materials shall be of a quality and condition to perform their designed function.
- B. Noise reduction equipment and materials may include, but not be limited to:
 1. Shields, shrouds, or intake and exhaust mufflers.
 2. Noise-deadening material to line hoppers, conveyor transfer points, storage bins, or chutes.

3. Noise barriers using materials consistent with typical Temporary Noise Barrier materials.
4. All jackhammers and pavement breakers used on the construction site shall be fitted with manufacturer's approved exhaust mufflers.

PART 3 - EXECUTION

3.01 NUISANCE ODOR CONTROL

- A. Methods that shall be used by the Contractor to control nuisance odors associated with demolition include:
 1. Preventing standing water from remaining in low areas.
 2. Covering stockpiles of demolition debris with polyethylene sheeting and securing it with sandbags or an equivalent method to prevent the cover from being dislodged by the wind. The Contractor shall repair or replace covers whenever damaged or dislodged, at no additional cost to the Owner.
 3. Reducing the amount of time that demolition debris is on-site and exposed to the atmosphere.
 4. Maintaining the construction site free of trash, garbage, and debris.
 5. Fully covering and securing haul truck cargos during material transport on public roadways.
 6. Cleaning up and properly disposing of debris.
 7. Turning off diesel combustion engines on construction equipment not in active use and on dump trucks that are idling while waiting to load or unload material for amounts of time deemed excessive by the Engineer.

3.02 ODOR MONITORING

- A. Sensory detection of odors (smelling) shall be performed to assess the effectiveness of odor control measures.

3.03 CONTRACTOR COMPLAINTS

- A. The Contractor shall notify the Engineer of all internal complaints originating from Contractor personnel regarding odors at the construction site. The Engineer will notify the Contractor of all external complaints from regulatory agencies or the public.
- B. The Contractor shall document and maintain a log of all complaints originating from Contractor personnel and from the Engineer regarding odors at the construction site.

- C. For odors that are determined to be nuisance odors (non-hazardous), the Contractor shall implement appropriate control measures.

3.04 NOISE MONITORING METHODS

A. General

- 1. The contractor shall monitor construction noise using a sound level meter. The sound level meter shall be field calibrated using an acoustic calibrator, according to the manufacturer's specifications, prior to and after each measurement.

B. Construction Noise Monitoring

- 1. Noise level measurements shall be taken daily during demolition activities.

3.05 REPORTING

- A. Background, construction and complaint response noise data shall be recorded by the Contractor. All activities occurring while performing noise measurements shall be noted.

3.06 NOISE REDUCTION METHODS

- A. The contractor shall use all reasonable efforts to include noise reduction methods listed below to minimize construction noise emission levels. Noise reduction methods shall include, but not be limited to:
 - 1. Limiting the number and duration of equipment idling on the site and the use of air or gasoline-driven hand tools.
 - 2. Operating the demolition activity to minimize the impact on noise-sensitive receptors

PART 4 - COMPENSATION

4.01 METHOD OF MEASUREMENT

- A. No separate measurement will be made for the work of this section.

4.02 BASIS OF PAYMENT

- A. All odor control and noise measures will be considered incidental to the Work and will not be measured or paid for separately.

END OF SECTION

**SECTION 02051
DEMOLITION OF BUILDING**

PART 1 – GENERAL

1.01 DESCRIPTION

- A. This Section specifies the requirements for demolition of the American Legion building at 27 Revere Road, Quincy, Massachusetts. The Contractor shall examine the property and building prior to submitting a bid. This Section also includes requirements of the work for dismantling, removal and disposal/reuse of all structures, equipment, piping, fixtures, cables, conduits, electrical buses and supporting hardware and other ancillary equipment associated with the building.
- B. The Contractor shall coordinate his schedule with other projects that may be conducted concurrently by the City of Quincy, including the Town Brook Enhancement Project. No additional compensation will be considered for delays or scheduling issues due to coordination with the Town Brook Enhancement project or other City of Quincy projects.
- C. The Contractor shall identify a contact person to be accessible by the Owner any time of the day to handle any and all inquiries about the demolition project. The contact person shall be available to handle requests 24 hours/day. The contractor shall submit the name, telephone number, cell phone number, and email address of the contact person within one week of the notice to proceed.
- D. Abatement of asbestos containing materials and other hazardous materials are to be performed in accordance with Section 02080 Asbestos Abatement and Section 02054 Hazardous Materials prior to the start of demolition. Compliance with Section 02090 Lead Based Paint Management regarding potentially lead containing paint is required during all work.
- E. The Contractor shall comply with the Order of Conditions and Superseding Order of Conditions attached with these documents, as well as the forthcoming Final Order of Conditions during all phases of the work.
- F. The Contractor shall develop a Traffic Management Plan (Section 01570) to include any possible lane closures required to complete the demolition work. Space on the Site is limited. The Contractor's plan shall include possible closures of Mechanic Street and lane closures on Revere Road. The Traffic Management Plan shall be subject to the approval of the City of Quincy.
- G. The Contractor shall notify Dig Safe at 1-800-DIG-SAFE (1-800-344-7233) at least 72 hours prior to the start of subgrade activities. Maintain a valid Dig Safe ticket number during all subgrade work.
- H. Due to the limited space available, demolition debris shall be live loaded for shipment to receiving facilities. Demolition debris shall be sufficiently characterized prior to the start of demolition to allow live loading. The Traffic Management Plan shall include provisions for staging trucks to accept demolition debris.
- I. The Contractor shall obtain all required permits to complete demolition of the structure and appurtenances.

- J. The Contractor shall coordinate with utility companies for cutting, capping, and demolition of utilities. Services shall be cut and capped as required by the utility company or local authority. The Contractor shall confirm the utility is inactive prior to removal. Coordinate removal of any fire protection equipment with the Quincy Fire Department. Coordinate capping of existing gas utilities with the gas company. The location of the cap shall be determined by the gas company in coordination with the Contractor.
- K. The Contractor shall demolish the building down to existing grade, leaving the foundation in place. The building shall be demolished to approximately elevation 19.04 at the north corner, 19.06 at the west corner, 19.46 at the south corner, and to existing grade at the east corner. All elevations relative to NGVD 29.
- L. The building shall be filled with imported ordinary borrow, compacted in 6 inch lifts, and finished with a minimum 1 foot thickness of 3/4" clean-washed crushed stone.
- M. All dust and debris tracked from the site shall be cleaned daily. The Contractor shall perform street sweeping as needed to maintain adjacent roadways free of dust and debris.
- N. Demolish, remove and properly dispose of all structures, trash, rubbish, debris, walls, and floors from Site building. Remove steps, walkways, sidewalks, and rails and steps from the exterior of the building. The paved parking area shall remain.
- O. Remove the existing flag pole at the front of the building, and protect it during removal. Provide the flagpole to the City who will return it to the American Legion.
- P. The Contractor shall install a 6' construction fence around the operation and in locations required to maintain Site security. The Contractor shall be required to include a Security Plan in the Demolition Plan indicating locations of fencing and gates to maintain security throughout the project. The Contractor shall provide locked gates at the Site entrances and control access to the Site for the duration of the Contract.

1.02 SUBMITTALS

- A. Within 10 Calendar days of the Notice to proceed, the Contractor shall submit a Demolition Plan detailing procedures for the safe demolition, dismantling and removal of all building components and debris. The Contractor shall submit the Demolition Plan to the Owner or their authorized representative for review and approval prior to initiating demolition activities. Submittal of the Contractor's Demolition Plan shall not relieve the Contractor of their responsibility to conduct the work of this Contract in accordance with all applicable laws and regulations. The Contractor's Demolition Plan shall describe, but not necessarily be limited to the following:
 - 1. A detailed schedule.
 - 2. A Site Security Plan, including procedures for site security, means of access, health and safety, emergency response, and site operations. The plan shall indicate locations of fencing and gates.
 - 3. Procedures for complying with all applicable federal, state and local regulations, permits and approvals.

4. Procedures for controlling nuisances at the site including: fugitive dust, dirt, mud and noise resulting from all activities associated with the demolition work.
 5. Procedures for waste management including: identifying, removing, segregating, storing and transporting of demolished material generated during the work.
 - a. The Contractor shall establish procedures for transport and disposal/recycling of demolished material from each waste stream to permitted waste receiving facilities (disposal/recycling sites). The Contractor shall provide certified waste acceptance documentation to the Owner for each waste stream from each proposed waste receiving facility. The certified documentation shall include any special precautions relating to each waste stream.
 - b. Coordination with the Contractor's Traffic Management Plan.
 6. Procedures for segregating material and waste streams, addressing limited available area on the Site.
 7. Procedures for hazardous waste management including: identifying, removing, handling, managing, storing, transporting, and/or disposing/recycling demolished material known or found to contain hazardous materials. The Contractor shall provide certified waste acceptance documentation to the Owner for each waste stream from each proposed hazardous waste receiving facility. The certified documentation shall include any special precautions relating to hazardous waste streams.
- B. No demolition work may be initiated by the Contractor until the Demolition Plan as described herein is submitted to and reviewed by the Owner or their authorized representative, and the Owner issues an approval to proceed.
- C. All permits and approvals necessary for the demolition activities shall be obtained by the Contractor from all appropriate regulatory agencies. The Contractor shall also coordinate all utility clearances through Dig Safe System, Inc. The Contractor shall provide copies of all permits and related correspondence to the Owner prior to commencement of activities requiring a permit or approval. The Contractor shall be responsible for maintaining compliance with all required permits and approvals for the duration of the work.
- D. The Contractor shall discontinue (shutoff, cap, or otherwise control) all utility services to the building and arrange and coordinate utility work with the appropriate utility companies, state authorities, and/or municipal departments prior to commencing the demolition work. The Contractor shall give advance written notice to all involved utility companies, state authorities, and municipal departments requesting discontinuance of service to structures scheduled for demolition. The Contractor shall provide copies of all correspondence to the Owner prior to commencement of the work.
1. The Contractor shall provide temporary water and power during the work, and any other utilities required to perform the work.
 2. The Contractor shall arrange and coordinate all work required to provide temporary service to the site. The Contractor shall provide the Owner with an engineering drawing (as-built) that indicates the location of all temporary service lines and the means for their control.

- E. All demolition work must be performed under the direction of a licensed building wrecker. Demolition work shall be conducted in accordance with the applicable Massachusetts State Regulations, including 780 CMR Chapter 33. The Contractor shall provide copies of all necessary licenses to the Owner prior to commencement of the work.

1.03 JOBSITE CONDITION

- A. The building proposed for demolition is located at 27 Revere Road in Quincy, Massachusetts. The Site is bounded by Revere Road to the west, Town Brook to the north, Mechanic Street to the south, and a residential property to the east.
- B. There is little land area beyond the building footprint on the Site. The Contractor shall plan his work to minimize impact to neighboring properties and roadways. All work shall be conducted in accordance with the Contractor's Traffic Management Plan. Town Brook, the neighboring residential property, and adjacent roadways shall be protected during all phases of the work.
- C. Town Brook flows in an open channel immediately north of the Site. The Contractor shall protect the walls that form the banks of Town Brook during all work. The Contractor shall ensure that activities associated with the demolition work do not adversely impact the brook. All provisions of the Order of Conditions and Superseding Order of Conditions shall be followed. Any damage or nuisance caused to the brook and/or associated structures shall be repaired/mitigated by the Contractor at no additional cost to the Owner.
- D. The Contractor shall not rely solely on the general information provided in Part 1.03 as an accurate description of existing conditions. The Contractor shall conduct an inspection of the site to his satisfaction to verify actual conditions prior to commencing the work.

1.04 ADDITIONAL REQUIREMENTS

- A. The Contractor shall protect all adjacent existing buildings, roadways, facilities, utilities, manholes, water resources, drainage structures, and other structures from nuisance or damage during the demolition work. Any nuisance or damage caused to the above mentioned existing items shall be repaired/mitigated by the Contractor at no additional cost to the Owner.
- B. The Contractor shall monitor air quality and other nuisances at the site in accordance with all applicable federal, state, and/or local regulations. The Contractor shall also control dust and other nuisances during the demolition work in accordance with all applicable federal, state and/or local regulations and requirements.
- C. All employees of the Contractor engaged in the demolition work shall be familiar with the approved Demolition Plan. All employees of the Contractor and any subcontractors shall comply with the demolition plan.
- D. The Contractor shall verify that all electric, gas, water, steam, sewer, and other utility/service lines are decommissioned (shutoff, capped or otherwise controlled) prior to demolition. If any live wires, cables, or other utilities are identified at any Site, the Contractor shall notify the Owner immediately. If the identified live wires, cable or other utilities are part of the utilities and structures associated with the site, the Contractor will decommission them. If the identified live wires, cables, or other utilities are owned by a

local utility, state authority, or municipal department, the Contractor shall make arrangements to notify the affected authority and have the utility decommissioned.

- E. The Contractor shall manage all waste disposal and recycling. Quantities of all waste streams shall be provided to the Owner.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION

3.01 PRESERVATION OF REFERENCES

- A. The locations and designations of survey markers and monuments shall be recorded. Survey markers shall be maintained where feasible. The Contractor shall provide three reference points for each survey marker and monument removed. Such reference points shall be established by a licensed land surveyor.

3.02 DEMOLITION

- A. The Contractor shall perform all demolition work in accordance with the approved Demolition Plan and in accordance with all applicable federal, state, and local regulations.
- B. Demolition shall include but not be limited to the items described below. The Contractor shall perform any work necessary to complete the demolition work in accordance with the terms and provisions of the Contract. The Contractor shall refer to Section 02090 of the specification. The Contractor shall perform the following demolition work; the sequence of the work shall be determined by the Contractor.
 1. All structures, equipment, piping, fixtures, conduits, supporting hardware, and materials associated with the building shall be removed to the specified elevation, or as described in the Contract Documents.
 2. The Contractor shall control and/or eliminate all hazards including hazardous building conditions, materials, hazardous chemicals, gases, explosives, flammable materials, or dangerous substances, pipes or other equipment at the site.
 3. The Contractor shall remove all piping, drains, conduits, and sumps. Underground piping, drains and sumps shall be cut and capped at the property line and removed. Building sewer lines shall be decommissioned, cut and capped as required by the local sewer authority.
 4. All manholes, sumps, and vaults within the property line shall be excavated and removed.
 5. Debris, dirt, muck, sludge, waste, water, and all foreign matter shall be removed by the Contractor from all piping, drains, conduits, vaults, sumps, manholes, basement, and/or other subsurface structures prior to removal. All waste materials shall be properly disposed by the Contractor and copies of approvals,

permits or other documentation shall be furnished to the Owner or their authorized representative.

6. The Contractor shall remove all structures, equipment, stairs, rails, cables, fences, and walkways associated with the building structure.
 6. The Contractor shall fill all pockets, voids, and local depressions in demolition areas with specified compacted backfill material. The Contractor shall grade demolition areas to match existing grades.
 10. Demolition debris shall be loaded, hauled or otherwise managed in a manner to minimize nuisances and the spread of dust onsite and along the hauling route. This shall include at a minimum, spraying the debris with water and covering with hauling covers. Other nuisance and/or dust suppression means shall be applied as necessary by the Contractor and/or under the direction of the Owner or their authorized representative.
- C. The Contractor shall ensure that all flame cutting or welding of metal work or equipment shall be conducted in a manner compliant with all applicable federal, state and/or local regulations. The Contractor shall obtain a hot work permit if required.
- D. At the completion of demolition, the Contractor shall fill demolition area to match existing grade. The contractor shall grade the site so that demolition elevations approximate pre-demolition elevations. The Contractor shall use acceptable solid fill materials as backfill.
1. Class I soil shall include any acceptable bank run gravel or equivalent granular imported fill soils brought to the site from an off-site source processed so the maximum length of the largest dimension of any piece is one inch. Class I soils imported from an off-site source shall not contain deleterious materials (silt, clay, wood, etc.) or concentrations of oil or hazardous materials in exceedance of reportable concentrations (RCS-1) and established site background concentrations in accordance with the Massachusetts Contingency Plan (310 CMR 40.0032 (3)). The Contractor shall provide, at a minimum, the following supporting documentation for all Class I soils proposed for use at the site. No imported soil shall be brought to the site by the Contractor without the approval of the Owner or their authorized representative.
 - a. The Contractor shall notify the Owner or their authorized representative of the source of any fill material to be brought onsite and supply sufficient documentation to support the use of the material at the site.
 - b. The Contractor shall submit a minimum of one sample for laboratory analysis at a Massachusetts certified laboratory to support the use of the material at the site. The analysis shall include but is not limited to: grain size analysis (via ASTM Method D422), volatile organic compounds (via EPA Method 8260-low level), semi-volatile organic compounds (via EPA Method 8270), extractable petroleum hydrocarbons and volatile petroleum hydrocarbons (via MADEP Method MADEP-98-1), and total RCRA 8 Metals.
 - c. The Owner or their authorized representative shall be able to obtain confirmatory samples of the fill material to verify that the material does not exceed site background concentrations. Should the results of

physical observations and/or sampling indicate that the material does contain deleterious materials or exceeds the site background concentrations the Owner reserves the right to reject the fill soils. The Contractor shall promptly remove and replace any rejected fill material with acceptable Class I soil at no additional cost to the Owner. The replacement of the material shall in no way alleviate the need of the Contractor to fulfill the terms of this Section of the Contract Specification.

- F. The Contractor shall apply all fill materials in approximately one foot lifts and compact with a 10-ton vibratory roller or equivalent piece of heavy equipment. Compaction shall be conducted to the satisfaction of the Owner or their authorized representative.
- G. After all demolition work is complete the Contractor shall backfill, grade, and compact demolition areas to match surrounding elevations. All areas disturbed by the demolition shall be stabilized with a minimum one foot thickness of $\frac{3}{4}$ " clean-washed crushed stone.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

- A. All costs associated with the work described herein shall be included in the Lump Sum price for Demolition except as otherwise noted. All preparation and incidental work necessary to accomplish the Demolition is considered incidental to the Lump Sum price.

4.02 PAYMENT

- A. Payment for Demolition will be made at the Contract Lump Sum Price as specified above.

END OF SECTION

**SECTION 02054
HAZARDOUS MATERIALS ABATEMENT**

PART 1 – GENERAL

1.01 SUMMARY

- A. The Work of this Section includes, but is not limited to, furnishing all labor, equipment, materials, and services necessary to remove, transport and dispose of hazardous materials in preparation for demolition at 27 Revere Road in Quincy, Massachusetts.
- B. The work of this Section must be coordinated with the work of Section 02051 Demolition, Section 02080 Asbestos Abatement, and Section 02090 Lead Paint Management.
- C. The Contractor shall be responsible for the characterization, handling, stockpiling, transportation and disposal/reuse/recycling of oil or hazardous materials (OHM), including those materials listed in the attached Hazardous Materials Inventory Table.
- D. The Contractor shall have the opportunity to observe the building and the locations, quantity, and condition of oil and hazardous materials located in the building. The work of this section includes the removal of all materials from the building in order to allow for complete demolition of the building.

1.02 SUBMITTALS

- A. 10 working days prior to the start of the work of this Section, the Contractor shall submit the names and qualifications of any subcontractors required to complete the work.
- B. 10 working days prior to the start of the work of this Section, the Contractor shall submit the name and qualifications of the facilities permitted to accept the categories of waste to be generated as a result of the removal of hazardous materials under this section.
- C. 10 working days prior to the start of the work of this Section, the Contractor shall submit the names and qualifications of hazardous waste transporters.

1.03 QUALIFICATIONS

- A. All personnel handling or working in the vicinity of hazardous materials shall be trained in accordance with the OSHA Hazardous Waste Operator and Emergency Response (HAZWOPER) Standard 29 CFR 1910.120, and the training requirements of the Massachusetts Hazardous Waste Regulation at 310 CMR 30.516 as applicable.

1.04 REMOVAL OF FLUORESCENT BULBS

- A. The Contractor shall carefully remove the fluorescent light fixtures from their installation location. The fluorescent bulbs shall be packaged for disposal as Universal Waste in

accordance with Massachusetts Hazardous Waste Regulations 310 CMR 30.1000.

1.05 REMOVAL OF LIGHT BALLASTS

- A. The Contractor shall carefully remove the fixtures from their installation location and remove the ballasts from the fixtures. The contractor shall place the ballasts in a drum or drums for disposal. The attached Hazardous Materials Inventory Table indicates the approximate number of ballasts identified as PCB containing and non-PCB containing. The Contractor shall handle and dispose of each type of ballast in accordance with applicable regulations.
- B. The Contractor shall remove, transport, and dispose of PCB containing ballasts at a facility approved to accept PCB waste.
- C. All PCB and potentially PCB containing ballasts shall be handled and disposed of in accordance with the Toxic Substance Control Act (TSCA) 40 CFR 761.

1.06 REMOVAL OF HIGH INTENSITY LIGHT BULBS

- A. High intensity light bulbs are potentially mercury containing. The Contractor shall remove, containerize, and dispose of potentially mercury containing light bulbs in accordance with 310 CMR 30.0000 and other applicable regulations. Approximate numbers and locations of potentially mercury containing light bulbs are listed in the attached Hazardous Materials Inventory Table.

1.07 REMOVAL OF AST AND PETROLEUM PRODUCTS

- A. The Contractor shall remove all fuel and residue from the existing 500 gallon aboveground storage tank (AST). The tank shall be cleaned in accordance with applicable regulations and all product, wash water, and oily solids shall be collected and disposed of. The AST shall be removed from the building and disposed. The Contractor shall document appropriate handling and disposal of all AST related wastes
- B. The Contractor shall remove, containerize, and dispose of lubricating oil and other oils from equipment in the building. Approximate locations of equipment containing lubricating oil are listed in the attached Hazardous Materials Inventory Table.

1.08 REMOVAL OF FIRE EXTINGUISHERS

- A. The Contractor shall remove, containerize, and dispose of fire extinguishers in the building. Approximate numbers and locations of fire extinguishers are listed in the attached Hazardous Materials Inventory Table.

1.09 REMOVAL OF BATTERIES

- A. The Contractor shall remove, containerize, and dispose of batteries in the building. Approximate numbers and locations of batteries are listed in the attached Hazardous

Materials Inventory Table.

1.10 REMOVAL OF REFRIGERANTS AND COOLANTS

- A. The Contractor shall recover, containerize, and dispose of refrigerants and coolants from equipment in the building. Equipment in the building that is likely to contain coolants and/or refrigerants includes HVAC units, cooling towers, refrigerators, water fountains, and similar equipment.
- B. The Contractor shall identify the type and quantity of refrigerant contained in each piece of equipment, and shall select, supply and operate appropriate equipment for recovery of each refrigerant. Each type of refrigerant must be collected in a separate tank or container.
- C. The Contractor shall make necessary arrangements to reclaim or dispose of recovered refrigerants as needed and in compliance with applicable regulations.
- D. All activities related to the removal of refrigerants must be performed in compliance with 40 CFR 82 Subpart F, and applicable regulations.

1.11 REMOVAL OF POTENTIAL MERCURY SWITCHES/THERMOMETERS

- A. Thermostats and switches can contain mercury, and are considered Universal Waste in accordance with 310 CMR 30.1000. The Contractor shall dispose of all potentially mercury containing switches and thermostats as Universal Waste. Approximate locations and quantities of potential mercury switches and thermometers are indicated in the attached Hazardous Materials Inventory Table.

1.12 REMOVAL OF HYDRAULIC SYSTEMS

- A. The Contractor shall remove, containerize and dispose of hydraulic fluid lifts, elevators, and dock levelers.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION

3.01 GENERAL

- A. A representative of the Owner will sign all manifests and other applicable documentation as required. The Contractor shall prepare waste profiles for each type of waste for review by the Owner. Waste profiles shall include analytical data if required for characterization. The applicable documents will be prepared by the Contractor and may be subject to applicable local, state and federal agency review and approval.

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- B. Utilization of a hazardous material manifest shall require the use of a licensed hazardous material transporter in conformance with the Massachusetts Hazardous Material Regulations 310 CMR 30.0000.

3.02 CHARACTERIZATION OF WASTES

- A. The Contractor shall be responsible for all waste characterization, sampling and analysis.
- B. The Contractor is responsible to ensure that materials are characterized to meet disposal facility requirements.

3.03 WASTE PROFILES AND MANIFESTS

- A. The Contractor shall be responsible for preparing and submitting to the Owner for review all waste profile applications and questionnaires, and coordination with disposal facilities and all Federal and State Environmental Agencies as applicable. The Contractor shall provide completed copies of all waste profile applications and questionnaires prior to transportation off site.
- B. The Contractor shall be responsible for preparing all hazardous material manifests, bills of lading and any other applicable paperwork with all applicable analytical backup, notification, and control forms. The Contractor shall be responsible for coordination with the disposal facilities.
- C. The Contractor shall also provide certified tare and gross weight slips or certified liquid volume measurements for each load received at the designated facility, which shall be attached to each completed manifest and/or bill of lading. The completed manifest and/or bill of lading, with supporting documentation, shall be submitted to the Owner.
- D. The Contractor shall furnish all generator copies of the hazardous material manifest to the Owner. The Contractor shall submit copies to the applicable local, state and federal authorities.
- E. The Contractor shall submit to the Owner, prior to receiving progress payment, documentation certifying that all materials were transported to, accepted, and disposed of, at the selected disposal facility. The documentation shall include, at a minimum, the following:
 - 1. Documentation shall be provided for each load from the site to the disposal facility, including all manifests and any other transfer documentation as applicable.
 - 2. Certified tare and gross weight slips and/or certified liquid quantity measurements for each load, as applicable.

3.04 TRANSPORT OF CONTAMINATED MATERIAL

- A. The Contractor shall transport contaminated materials from the site to the disposal or recycling facility in accordance with all DOT, USEPA, OSHA, MADEP regulations and any other applicable regulations.
- B. The Hauler(s) shall be licensed in all states affected by transport.
- C. The Contractor shall coordinate the schedule for truck arrivals and departures at the disposal site to meet the approved schedule.
- D. The Contractor shall not deliver waste to any facility other than the disposal facility(ies) listed on the shipping manifest, bills of lading, and/or other applicable documentation.
- E. The Contractor shall be responsible for inspecting the access routes for road conditions, overhead clearance, and weight restrictions, and shall provide traffic control when needed.
- F. The Contractor shall provide to the Owner copies of all weight slips (both tare and gross) and certified liquid quantity measurements, for every load disposed of at the accepted disposal facility.
- G. The Contractor shall be responsible for any and all actions and costs necessary to remedy situations involving material spilled in transit. This cleanup and other ancillary activities shall be accomplished at the Contractor's expense.
- H. All trucks and containers shall be covered during transport as required by applicable law.

3.05 OFF-SITE DISPOSAL

- A. The Contractor shall be responsible for the disposal of contaminated materials at licensed disposal/recycling facilities in accordance with all federal, state and local regulations, laws, codes, policies or requirements.
- B. The Contractor shall be responsible for acceptance of the specific material at an approved treatment, disposal, or recovery facility. The Contractor shall be responsible for ensuring that the facility is properly permitted to accept the stated material, and that the facility provides the stated treatment and/or disposal services.
- C. All hazardous wastes, as characterized by the Contractor, shall be disposed of at a RCRA or RCRA/TSCA permitted facility as appropriate.
- D. The Owner reserves the right to contact and visit the disposal facilities and regulatory agencies to verify their agreement to accept the stated material and to verify any other information provided. This does not in any way relieve the Contractor of any responsibilities under this contract.

- E. In the event that the identified and approved facility(ies) ceases to accept the stated materials or the facility(ies) ceases operations, it is the Contractor's responsibility to locate an alternate approved and permitted facility(ies) for accepting materials. No additional compensation shall be provided to the Contractor for having to utilize alternative facilities. The Contractor is responsible for making the necessary arrangements to utilize alternate facility(ies), and the alternate facility(ies) must be approved by the Owner in the same manner and with the same requirements as for the original facility(ies).
- F. All materials collected under this contract must be segregated and kept physically separate from any other items until the disposal facility is reached. The items must be so marked, so that they are readily identified to this contract throughout this period. In addition, the Contractor must ensure that there is a clear audit trail for all items until final treatment/disposal is accomplished.
- G. The Contractor shall dispose of work generated waste materials which may be contaminated. These waste materials include, but are not limited to, decontamination rinse water, disposable PPE, and miscellaneous disposable support equipment. Disposal of Contractor generated waste shall be done at no additional cost to the Owner.
- H. Mere acceptance of a waste at a properly permitted treatment, storage, or disposal facility (TSDf) does not meet the definition of final treatment/disposal under this contract. It is the Contractor's responsibility to obtain all necessary documentation to prove that the final treatment/disposal of all items has been accomplished. This documentation shall be attached to the certificate of disposal and submitted with, or prior to, the payment requests.

3.10 SPILL RESPONSIBILITY

- A. The Contractor is solely responsible for any and all spills or leaks during the performance of work under this contract, which occur as a result of or are contributed to by the actions of its agents, employees or subcontractors. The Contractor agrees to clean up such spills or leaks to the satisfaction of the Owner or its representative, and in a manner that complies with applicable federal, state and local laws, codes, policies and regulations. The spill cleanup shall be at no cost to the Owner or its representatives.
- B. As required, the Contractor shall notify all applicable local, state and federal authorities immediately if a transport vehicle is involved in an accident and a reportable quantity of OSM is released or suspected to have been released.
- C. The Contractor shall report all such spills or leaks, regardless of their quantity, to the Owner immediately upon discovery. A written follow-up report shall be submitted to the Owner as soon as possible, but not later than 24 hours after the initial telephone report. The written report shall be in narrative form and, at a minimum, include the following:
 - 1. Description of item spilled (including identity, quantity, manifest number., etc.).
 - 2. Exact time and location of spill, including a description of the area involved.

3. Containment procedures initiated.
4. Description of cleanup procedures employed or to be employed at the site, including location of disposal of spill residues, and corrective measures to prevent recurrences.

3.11 DECONTAMINATION PROCEDURES

- A. General: The Contractor shall furnish labor, materials, tools, and equipment for decontamination of all personnel, equipment and supplies that enter a contaminated work area or are exposed to contaminated material. The Contractor shall provide equipment and decontamination pads, etc. necessary for the decontamination of equipment and personnel.
- B. Methods: The decontamination procedure shall follow the requirements of 29 CFR 1926.65/1910.120.
- C. Rinse water used for decontamination which contains which contains contaminants from the equipment which was decontaminated shall be collected, characterized, handled and disposed of, by the Contractor, at no additional cost to the Owner.
- D. The Contractor is responsible for any sampling and characterization as required by local, state, federal or facility requirements.
- E. The Contractor shall provide, maintain, and pay for all permits or monitoring necessary of the disposal/discharge of decontamination wastewaters.
- F. The Contractor shall be responsible for all costs such as penalties and fines related to materials transported and or disposed of in a manner not consistent with governing laws and regulations.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT AND PAYMENT

- A. All costs associated with the work described herein shall be included in the Lump Sum price. All preparation and incidental work necessary to accomplish the work of this section shall be included in the Lump Sum price.

SEE ATTACHED TABLE

Hazardous Material Inventory Table	
Material Description	Estimated Quantity
Potentially PCB or DEHP Containing Equipment	
Ballasts from 4-foot by 2-foot, 4-bulb fluorescent light fixtures	30
Ballasts from 8-foot, 2-bulb fluorescent light fixtures	20
Ballasts from 4-foot, 2-bulb fluorescent light fixtures	10
Ballasts from 4-foot, 1-bulb fluorescent light fixtures	10
Ballasts from 10-inch diameter fluorescent light fixture	10
Pole-mounted transformers	1
Mercury-containing Devices	
Bulbs from 4-foot by 2-foot, 4-bulb fluorescent light fixtures	120
Bulbs from 8-foot, 2-bulb fluorescent light fixtures	40
Bulbs from 4-foot, 2-bulb fluorescent light fixtures	20
Bulbs from 4-foot, 1-bulb fluorescent light fixtures	10
Bulbs from 10-inch diameter fluorescent light fixture	10
Uninstalled 4' fluorescent light bulbs	30
Mercury Thermostats	5
Chlorofluorocarbons, Refrigerants, and Coolants	
Commercial roof-mounted HVAC units	2
Residential refrigerator	4
Commercial ice machine	2
Commercial display-type refrigerator - vertical	2
Residential size A/C unit	4
Commercial display-type refrigerator - horizontal	2
Petroleum Containing Equipment	
500-gallon AST	1
Waste oil, 1-gallon	1
Paints, Paint Thinner, Polyurethane, and Related	
Various 1-gallon to 5-gallon containers	30
Waste Batteries	
Exit Sign Batteries	10
Emergency Light Batteries	10
Cathode Ray Tubes	
Computer monitors	5
White Goods	
Microwave ovens	3
Household cleaning supplies, various items in small quantities	25
Miscellaneous Items	
6-inch diameter incandescent light fixtures	50
Commercial dish washer	2
Household cleaning/maintenance supplies, various items <1-gallon containers	30
Other	
Fire extinguisher	10
Smoke Detectors	10

END OF SECTION

HAZARDOUS MATERIALS ABATEMENT
02054-8

**SECTION 02055
SOIL MATERIALS**

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes producing, removing, and stockpiling subsoil and topsoil materials referenced by other sections for fill and grading purposes.

1.02 REFERENCES

- B. AASHTO T180 - Moisture-Density Relations of Soils Using a 10-lb (4.54 kg) Rammer and an 18-in. (457 mm) Drop.
- C. ASTM D698 - Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures, Using 5.5-lb. (2.49 Kg) Rammer and 12-inch (304.8 mm) Drop.
- D. ASTM D1556 - Test Method for Density of Soil in Place by the Sand-Cone Method.
- E. ASTM D1557 - Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10-lb (4.54 Kg) Rammer and 18-inch (457 mm) Drop.
- F. ASTM D2167 - Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
- G. ASTM D2487 - Classification of Soils for Engineering Purposes.
- H. ASTM D2922 - Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
- I. ASTM D3017 - Test Method for Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).

1.03 SUBMITTALS

- A. Make submittals per provisions in Division 1.
- B. Submit in airtight containers a 10 lb sample of each type of soil to testing laboratory as requested by the Engineer/Owner.
- C. Materials Source: Submit name of materials source.

1.04 QUALITY ASSURANCE

A. All work under this Section shall conform to the latest edition of each of the following Reference Standards as applicable:

1. Massachusetts Highway Department (MHD) Standard Specifications (for Highways and Bridges), 1988 ed. including all addendum.
2. Local Municipality Standard Details and Specifications.

Maintain one copy of each on site.

PART 2 PRODUCTS

2.01 SUBSOIL MATERIALS

A. Ordinary Borrow: Conform to MHD Specification M1.01.0. Ordinary Borrow shall be a granular material, well-graded from fine to coarse with a maximum size of six (6) inches, obtained from approved natural deposits and shall be unprocessed except for the removal of unacceptable material and stones larger than the maximum size permitted. Borrow shall not contain vegetation, masses of roots, or individual roots more than eighteen (18) inches long or more than ½ inch in diameter, and shall be substantially free from loam and other organic matter, clay, or other fine or harmful substances. Ordinary Borrow shall consist of a material satisfactory to the Engineer/Owner and shall have properties such that it may be readily spread and compacted.

2.02 TOPSOIL MATERIALS

A. Crushed Stone: Conform to MHD Specification M2.01.4. Crushed stone shall be uniformly blended clean-washed crushed stone, and shall be subject to the approval of the Owner and the Engineer.

2.03 SOURCE QUALITY CONTROL

- A. Prior to the general placement of fill, and during such placement, the Engineer may select areas within the limits of the fill for testing soils quality. The Contractor shall cooperate fully in obtaining the information desired.
- B. Payment for testing will be made by the Owner. If test results are unsatisfactory, all costs involved in correcting deficiencies in compacted materials to the satisfaction of the Engineer, will be borne by the Contractor.

PART 3 EXECUTION

3.01 SOIL REMOVAL

A. Excavate subsoil and topsoil from areas required to complete the work.

3.02 STOCKPILING

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- A. Potential stockpile locations on the Site are severely limited. The Contractor shall avoid stockpiling soil materials on the Site.

PART 4 COMPENSATION

4.01 METHOD OF MEASUREMENT

- A. No separate measurement will be made for the work of this section.

4.02 BASIS OF PAYMENT

- A. All soil materials will be considered incidental to the Work and will not be measured or paid for separately.

END OF SECTION

**SECTION 02080
ASBESTOS ABATEMENT**

PART 1 – GENERAL

1.01 SUMMARY

- A. Furnish all labor, equipment, materials, and services necessary to remove, transport and dispose of asbestos containing materials in preparation for demolition of the building at 27 Revere Road in Quincy, Massachusetts.
- B. The Contractor shall remove all asbestos containing materials to allow for building demolition. The identified asbestos containing materials and approximate quantities are included in Table 1 on page 3 of this specification.
- C. The work of this Section must be coordinated with the work of Section 02051 Demolition of Building, Section 02054 Hazardous Material, and Section 02090 Lead Based Paint Management.
- D. The Contractor shall have the opportunity to observe the building and the Site, and the quantity and conditions of asbestos containing materials located in the building. The work of this section includes the removal of all materials from the building in order to allow for complete demolition of the building. The Contractor's bid price shall include removal and disposal of all such materials.

1.02 SUBMITTALS

- A. 30 days prior to the commencement of asbestos abatement work, the Contractor shall submit the qualifications described in 1.03 Qualifications.
- B. 30 days prior to the commencement of the asbestos abatement work, the Contractor shall submit an Asbestos Abatement Plan. The plan shall include the specific location and layout of decontamination areas and negative air units; location of lighting and power outlets; distribution of amended water; the sequencing of asbestos work; detailed schedules by dates, shift times, and work activities during that shift; the interface of trades involved in the performance of work; the name of the selected asbestos waste disposal facility and waste hauler; and a detailed description of the methods to be employed to control pollution.
- C. 10 days prior to the commencement of the asbestos work, the Contractor shall submit to the Engineer a copy of the asbestos notification form for the project (ANF-001). The ANF-001 form must be completed by the asbestos abatement Contractor and submitted to Massachusetts DEP Bureau of Waste Prevention 10 working days prior to the start of abatement activities.

1.03 QUALIFICATIONS

- A. 30 days prior to commencement of asbestos abatement work, the Contractor shall submit

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to the Engineer its qualifications for conducting asbestos abatement and resumes of proposed project managers. This submittal shall include a copy of the abatement firm's Asbestos Contractor License in accordance with 453 CMR 6.05, the Asbestos Supervisor certification for the Supervisor assigned to the project in accordance with 453 CMR 6.06, the Asbestos Worker certifications for the abatement crew assigned to the project in accordance with 453 CMR 6.06, medical surveillance documentation and fit test documentation for all asbestos abatement personnel.

- B. 30 days prior to commencement of asbestos abatement work, the Contractor shall submit to the Engineer for approval the name and qualifications of the asbestos waste disposal facility and the asbestos waste hauler.

1.04 ASBESTOS ABATEMENT

- A. The asbestos abatement Contractor shall conduct asbestos abatement in accordance with applicable local, state, and federal regulations to remove asbestos containing materials from the site building. Table 1 lists the identified asbestos containing materials identified in the building and approximate quantities.
- B. The Contractor shall remove asbestos containing materials in preparation for the demolition of the building in accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAPs) 40 CFR 61 and Massachusetts Department of Environmental Protection Air Regulation 310 CMR 7.15 and other applicable regulations.
- C. The Contractor shall be responsible for the health and safety of all workers engaged in the asbestos abatement work.
- D. The Contractor shall demolish any boilers in the site building and remove and dispose of asbestos containing material encountered, including insulation, gaskets, and packing material.
- E. Asbestos containing adhesive was identified between the roof insulation and plywood roof deck. The entire roofing system shall be removed as asbestos containing material including the wood deck. The Contractor shall conduct roof removal immediately prior to demolition so the building is not exposed to the weather after abatement. Contractor is responsible for building security throughout the Contract.
- F. The asbestos inspection report prepared by Tetra Tech for the City of Quincy shall be available for the Contractor's review during the bid period.
- G. The Contractor shall conduct selective demolition prior to and during asbestos abatement to identify asbestos containing materials that may be hidden within or behind walls, ceilings, and floors. If additional asbestos containing materials are identified, their removal shall be paid at Contract Unit Prices under the Allowance item for Additional Asbestos Abatement. The Contractor shall be responsible for abatement of all asbestos containing materials prior to demobilization of the asbestos contractor and prior to the start of general demolition.

Table 1 - Asbestos Containing Materials Identified at 27 Revere Road, Quincy, MA.					
Material Description	Material Number	Location	Asbestos Content (% wt)	Quantity	Unit
Wood panel adhesive	27R-015	2nd level dance floor	3%	1,400	SF (wall paneling)
Wood panel adhesive	27R-016	2nd level dance floor	3%		
9" x 9" checkerboard floor tile - brown	27R-058	1st level pool hall/bar	10%	2,000	SF
9" x 9" checkerboard floor tile - brown	27R-059	1st level pool hall/bar	10%		
9" x 9" checkerboard floor tile - beige	27R-060	1st level pool hall/bar	10%		
9" x 9" checkerboard floor tile - beige	27R-061	1st level pool hall/bar	10%		
9" x 9" white floor tile (replacement strip)	27R-062	1st level pool hall/bar	3%		
Mastic associated with 27R-058 to 27R-062	27R-063	1st level pool hall/bar	10%		
Mastic associated with 27R-058 to 27R-062	27R-064	1st level pool hall/bar	10%	2,000	SF
Mastic associated with 27R-058 to 27R-062	27R-065	1st level pool hall/bar	10%		
Window caulking	27R-068	1st level exterior windows	3-5%	350	LF
Window caulking	27R-069	1st level exterior windows	3-5%		
Window caulking	27R-070	1st level exterior windows	3-5%		
Window caulking	27R-071	1st level exterior windows	3-5%		
Window caulking	27R-072	1st level exterior windows	3-5%		
Window caulking	27R-073	2nd level exterior windows	5%		
Window caulking	27R-074	2nd level exterior windows	5%	200	LF
Window caulking	27R-075	2nd level exterior windows	5%		
Window glazing	27R-076	1st level exterior windows	2%	1,500	LF
Window glazing	27R-077	1st level exterior windows	2%		
Window glazing	27R-078	1st level exterior windows	2%		
Door caulking	27R-079	Exterior 2nd level door (Revere Rd side)	2%	40	LF (2 doors)
Door caulking	27R-081	Exterior 2nd level door (Mechanic St side)	2%	20	LF
Air cell insulation	27R-091	Boiler room	65%	20	LF
Air cell insulation	27R-092	Boiler room	65%		
Mudded elbows/fittings	27R-093	Boiler room	35%	12	EA
Mudded elbows/fittings	27R-094	Boiler room	35%		
Parapet wall flashing caulking (dark grey vertical strip)	27R-098	Roof, parapet wall (interior side), and around chimney	10%	60	SF
Parapet wall flashing caulking (dark grey vertical strip)	27R-099	Roof, parapet wall (interior side), and around chimney	10%		
Parapet wall flashing caulking (dark grey vertical strip)	27R-100	Roof, parapet wall (interior side), and around chimney	10%		
Cement board slates	27R-104	Roof, parapet wall (exterior side)	18%	1,000	SF
Cement board slates	27R-105	Roof, parapet wall (exterior side)	18%		
Roofing material including plywood deck	27R-114	Roof field	10%	3,500	SF
Roofing material including plywood deck	27R-115	Roof field	10%		
Asbestos containing pipe insulation	Assumed	Behind fixed walls and ceilings	Assumed	1,000	LF
Asbestos containing elbow and fitting insulation	Assumed	Behind fixed walls and ceilings	Assumed	300	EA
Paper below hardwood floor	Assumed	Below dance floor	Assumed	2,000	SF
Weather proofing	Assumed	Exterior side of subgrade foundation components	Assumed	2,000	SF

1.05 GENERAL APPLICABILITY OF CODES, REGULATIONS AND STANDARDS

- A. Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable codes, regulations, and standards have the same force and effect (and are made part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound within.
- B. The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State, and local regulations pertaining to work practices and the protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor shall hold the Owner and its representatives harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.
- C. Federal Requirements: Which govern asbestos abatement work or hauling and disposal of asbestos waste materials include the following:
1. U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA) including but not limited to:
 - a. Asbestos Standard for the Construction Industry
Title 29, Part 1926, Section 1101 of the Code of Federal Regulations
 - b. Respiratory Protection Standard

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Title 29, Part 1910, Section 134 of the Code of Federal Regulations

- c. Construction Industry
Title 29, Part 1926, of the Code of Federal Regulations
- d. Access to Employee Exposure and Medical Records
Title 29, Part 1910, Section 2 of the Code of Federal Regulations
- e. Hazard Communication
Title 29, Part 1910, Section 1200 of the Code of Federal Regulations
- f. Specifications for Accident Prevention Signs and Tags
Title 29, Part 1910, Section 145 of the Code of Federal Regulations

2. U.S. Environmental Protection Agency (EPA) including but not limited to:

- a. Asbestos Hazard Emergency Response Act
Title 40, Part 763 of the Code of Federal Regulations
- b. National Emission Standard for Asbestos
Title 40, Part 61, including Subpart A and Subpart M (Revised Subpart B) of
the Code of Federal Regulations
- c. Resource Conservation and Recovery Act
Hazardous Waste Regulation
Title 40, Parts 260-265

3. U.S. Department of Transportation, Title 49, Parts 172 and 173:

D. State Requirements: Which govern asbestos abatement work or hauling and disposal of
asbestos waste materials include the following:

- 1. Massachusetts Department of Labor and Workforce Development Regulations for the
Removal, Containment or Encapsulation of Asbestos Title 453 Section 6.00 of the
Code of Massachusetts Regulations
- 2. Massachusetts Department of Environmental Protection:
 - a. Air Pollution Control Regulations
Title 310, Chapter 7, Section 7.15 of the Code of Massachusetts Regulations
 - b. Solid Waste Regulations
Title 310, Chapters 16 and 19 of the Code of Massachusetts Regulations
 - c. Sewer Use Regulations
Title 360, Chapter 10 of the Code of Massachusetts Regulations
 - d. Massachusetts Contingency Plan
Title 310, Chapter 40 of the Code of Massachusetts Regulations

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- E. Local Requirements: The Contractor shall comply with local requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials.
- F. Reference Guidelines: Which govern asbestos abatement work or hauling and disposal of asbestos waste materials include the following:
 - 1. American National Standards Institute (ANSI)
1430 Broadway
New York, New York 10018
(212) 354-3300
 - a. Fundamentals Governing the Design and Operation of Local Exhaust Systems, ANSI Publication Z9.2-79
 - b. Practices for Respiratory Protection, ANSI Publication Z288.2-80

1.06 AVAILABILITY OF TRAINED PERSONNEL

- A. The Contractor shall provide a sufficient number of trained, licensed and qualified workers, foremen and superintendents to accomplish the work within the required schedule. No untrained, unlicensed, or non-qualified personnel shall be engaged in the abatement work.

1.07 RESPIRATORY PROTECTION

- A. The Contractor shall provide all workers, foremen, superintendents, authorized visitors, and inspectors personally-issued and marked respiratory protective equipment approved by NIOSH and OSHA. When respirators with disposable filters are employed, the Contractor shall provide sufficient filters for replacement as needed. The Contractor shall provide respirator filters for all workers, foremen, superintendents, authorized visitors, and inspectors. Filters shall be disposed of as asbestos waste.
- B. The Contractor shall instruct and train each worker involved in asbestos abatement in proper respiratory use and require that each worker always wear a respirator, properly fitted on the face in the work area from the start of any operation which may cause asbestos fibers to become airborne until the work area is completely decontaminated. The Contractor shall use respiratory protection appropriate for the fiber level encountered in the work place. The respiratory protection provided by the Contractor shall be suitable for the work environment.
- C. Respiratory protection provided by the Contractor shall conform to the most current standards of the American National Standards Institute (ANSI), the National Institute for Occupational Safety and Health (NIOSH), and the Mine Safety and Health Administration (MSHA).
- D. Initial Exposure Assessment
 - 1. The Contractor shall employ a Competent Person as defined by OSHA to conduct an exposure assessment immediately before, or at the initiation of work to determine expected exposures during the work. For Class I asbestos work, until the Contractor conducts exposure monitoring and documents that workers on the job will not be

exposed in excess of the Permissible Exposure Limit (PEL), or otherwise makes a negative exposure assessment, the Contractor shall assume that workers are exposed in excess of the PEL or excursion limit.

E. Respiratory Protection Selection:

1. The Contractor shall provide the appropriate respirator to all workers (and ensure that the employee uses the respirator provided) as specified below:

<u>Airborne Concentration of Asbestos</u>	<u>Required Respirator</u>
Not in excess of 1 f/cc (10 X PEL)	Half-mask air-purifying respirator equipped with HEPA filters.
Not in excess of 5 f/cc (50 X PEL)	Full face piece air-purifying respirator equipped with HEPA filters.
Not in excess of 10 f/cc (100 X PEL)	Any Powered Air Purifying Respirator (PAPR) equipped with high efficiency filters or any supplied air respirator operated in continuous flow mode.
Not in excess of 100 f/cc (1,000 X PEL)	Full face piece supplied air respirator operated in pressure demand mode.
Greater than 100 f/cc (1,000 X PEL) or	Full face piece supplied air respirator unknown concentration operated in pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus.

2. The Contractor shall provide a half-face air purifying respirator equipped with high efficiency filters whenever a worker performs Class II asbestos abatement where a negative exposure assessment is not produced.
3. The Contractor shall provide a full face powered air purifying respirator (PAPR) for all workers within a regulated area where Class I work is being performed for which a negative assessment has not been produced or if the TWA exposure to asbestos exceeds 1 fiber/cc.
4. Single-use, disposable respirators shall not be used on the work site.
5. Half- or Full-Face Air Purifying Respirators shall only be worn by personnel when approved by a physician, and after a quantitative or qualitative fit test is performed by an experienced industrial hygienist pursuant to OSHA regulations. Written copies of the results of these fit tests shall be provided to the Owner before any work activities begin.

E. Respiratory protection as specified herein shall be worn at all times, including preparation of the

work areas, loading and unloading of waste containers in the work area or at the transport truck, cleaning of work areas, and performance of glove bag removal work.

- F. Facial hair such as beards, long sideburns, and mustaches, which could interfere with the seal of air purifying type respirators, shall not be worn.
- G. Respiratory protection maintenance and decontamination procedures shall meet the following requirements:
 - 1. Respiratory protection shall be inspected and decontaminated on a daily shift basis in accordance with OSHA 29 CFR 1910. 134(b).
 - 2. HEPA filters for negative pressure air filtering respirators shall be changed after each shower.
 - 3. Respiratory protection shall be the last piece of worker protection equipment to be removed. Workers must wear respirators in the shower when going through decontamination procedures as stated herein.
 - 4. Powered air-purifying respirator face pieces shall be worn into the shower. Filter/power pack assemblies shall be decontaminated in accordance with manufacturer's recommendations.
 - 5. Respirators shall be stored in a dry place and in such a manner that the face piece and exhalation valves are not distorted.
 - 6. Organic solvents shall not be used for washing of respirators.
 - 7. For negative pressure respirators, workers shall perform a positive and negative air pressure fit check each time a respirator is worn. Powered air-purifying respirators shall be tested for adequate flow (using the methods specified by the manufacturer) every four (4) hours of use and each time the worker enters or exits the work area. Written logs of these tests shall be maintained by the Contractor.
 - 8. The Contractor shall furnish to the Owner written documentation that each worker is medically approved to wear respirators and has been properly trained in their use, inspection, care, maintenance, and fitting testing pursuant to the Contractor's written Respirator Plan and applicable regulations.

1.07 AIR MONITORING

- A. Clearance air monitoring as required by 453 CMR 6.00 will be conducted by the Contractor's Project Monitoring firm.
- B. The Contractor shall perform air monitoring as required to meet OSHA requirements for maintenance of Time-Weighted Average (TWA) fiber counts or airborne concentration of lead for types of respiratory protection provided.

1.08 COMPLETION DOCUMENTATION

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- A. At the completion of the asbestos abatement, the Contractor shall provide to the Engineer and Owner a documentation package including certifications, medical surveillance, and fit tests for all personnel involved in the project; daily sign in logs; daily supervisor's logs, waste shipment records indicating receipt of waste by the landfill; and results of Clearance Air Monitoring and OSHA monitoring.

PART 2 – PRODUCTS

2.01 TEMPORARY FACILITIES

- A. The Contractor shall provide water and electric service sufficient to perform and complete the work of this Specification. The Contractor shall obtain all necessary permits and approvals to provide temporary power and water. The Contractor shall use qualified tradesmen for installation of temporary services and facilities. The Contractor shall locate temporary services and facilities where they will serve the project adequately and result in minimum interference with the performance of the work. The Contractor shall relocate, modify and extend services and facilities as required during the course of work so as to accommodate the entire work of the project.
- C. Water Service: The Contractor shall provide hot and cold water service to the Site. Service shall be sufficient to provide water for abatement and decontamination of workers and equipment. Sufficient hot water for all workers shall be supplied by Contractor at a minimum temperature of 100 degrees F.
1. Temporary Water Service Connection: All connections to the water system shall include backflow protection. Valves shall be temperature and pressure rated for operation of the temperatures and pressures encountered. After completion of use, connections and fittings shall be removed without damage or alteration to existing water piping and equipment.
 2. Water Hoses: The Contractor shall use heavy-duty abrasion-resistant hoses with a pressure rating greater than the maximum pressure of the water distribution system to provide water into each work area and to each decontamination unit. The Contractor shall provide temporary water heating equipment, branch piping, showers, shut-off nozzles and equipment. The Contractor shall maintain hose connections and outlet valves in leak proof condition.
 3. Hot Water Heater: The Contractor shall provide a UL rated 40 - 80 gallon electric hot water heater to supply hot water for the decontamination unit shower. The heater shall be activated from 30 amp circuit breaker located within the decontamination unit. The Contractor shall provide a relief valve compatible with water heater operation, including a relief valve piped to drip pan on the floor. Drip pans shall consist of a 12" X 12" X 6" deep pan, made of 19 gauge galvanized steel, with handles. Wiring of the hot water heater shall be in compliance with the National Electric Code (NEC), Massachusetts modifications to the NEC, and UL standards.

- D. **Electrical Service:** The Contractor shall comply with applicable NEC, Massachusetts modifications to the NEC, and UL standard and governing regulations for materials and layout of temporary electric service. The Contractor shall provide a weatherproof, grounded temporary electric power service and distribution system of sufficient size, capacity, and power characteristics to accommodate performance of work during the construction period. Install temporary lighting adequate to provide sufficient illumination for safe work and traffic conditions in every area of work and acceptable to the Owner.
1. **Temporary Power:** Provide service to decontamination unit sub-panel with minimum 60 amp, 2 pole circuit breaker or fused disconnect connected to the main distribution panel. Sub-panel and disconnect shall be sized and equipped to accommodate all electrical equipment required for completion of the work.
 2. Provide electrical outlets (and extension cords) in the clean room, equipment room, and at locations inside and outside the work area for the use of the air monitoring firm for air monitoring purposes.
- E. **Temporary Lighting:** The Contractor shall provide sufficient temporary lighting to ensure proper workmanship throughout the work area, by combined use of daylight and portable task lighting. Protect lamps with guard cages or tempered glass enclosures, where fixtures are exposed to breakage by construction operations. Provide exterior fixtures where fixtures are exposed to the weather or moisture.
- F. **Sanitary Facilities:** The Contractor shall provide one self-contained chemical toilet for each ten workers (as a minimum). Toilets shall be located outside the asbestos abatement work areas.
- G. **Temporary Heating:** The Contractor shall provide temporary heat where indicated or needed for performance of the work. Provide temporary heating units that have been tested and labeled by UL, FM or other recognized trade association.
- H. **Fire Extinguishers:** Comply with the applicable recommendation of NFPA Standard 10 "Standard for Portable Fire Extinguishers." Locate fire extinguishers where they are most convenient and effective for their intended purpose, but provide no less than one extinguisher in the corner of each work area, one in each Equipment Room, and one outside each work area in the Clean Room.

2.02 DECONTAMINATION FACILITIES

- A. The Contractor shall construct a decontamination facility that is adjacent and connected to the regulated area for the decontamination of workers. The decontamination facility shall consist of an equipment room, shower area and clean room in series. The Contractor shall ensure that workers enter and exit the regulated area through the decontamination area. The Contractor shall provide the following:
1. **Equipment Room (Dirty Room):** Provide an equipment room with airlocks to

the work area and shower room, large enough for all workers to remove and dispose of contaminated protective clothing, and for storage of contaminated Contractor equipment.

2. Shower Room: Provide a completely watertight operational shower to be used for transit by cleanly dressed workers heading for the work area from the clean room, and for showering by workers leaving the work area after undressing in the equipment room. The shower room facilities and size shall be adequate to allow decontamination and thorough washing of all the workers and visitors.
 - a. Construct room by providing a shower pan and 2 shower walls in a configuration that will cause water running down walls to drip into pan. Install a freely draining wooden floor in shower pan at elevation of top of pan.
 - b. Provide shower head with flexible hose and controls.
 - c. Provide temporary extensions of existing hot and cold water and drainage, as necessary for a complete and operable shower.
 - d. Provide a soap dish and a continuously adequate supply of soap and maintain in sanitary condition.
 - e. Arrange so that water from showering does not splash into the clean room or equipment room.
 - f. Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the work area.
 - g. The Contractor shall provide 20 micron and 5 micron waste water filters in line to treat decontamination water. Treated water shall be discharged to a sanitary sewer, or stored in a temporary tank for off-site disposal. Change filters daily or more often if necessary. Locate filters inside shower unit so that water lost during filter changes is caught by shower pan. The Contractor shall obtain necessary approvals to discharge or dispose of treated decontamination water.
3. Clean Room: Provide a room that is physically and visually separated from the rest of the building for the purpose of changing into protective clothing. Locate so that access to work area from clean room is through shower room.
 - a. Require workers to remove all street clothes in this room, dress in clean disposable coveralls, and don respiratory protection equipment. Do not allow asbestos contaminated items to enter this room. Require workers to enter this room either from outside the structure dressed in street clothes, or from the showers.
 - b. Maintain floor of clean room dry and clean at all times. Do not allow

overflow water from shower to wet floor in clean room.

- c. Damp wipe all surfaces twice after each shift change with a disinfectant solution.
 - d. Provide a continuously adequate supply of disposable bath towels.
 - e. The Contractor shall post information with all emergency phone numbers and procedures in the clean room.
- C. Construction: Decontamination facilities shall be located in areas acceptable to the Owner and as shown on the Contractor's Asbestos Abatement Plan. The decontamination facility shall be fully lined using two layers of 6-mil opaque polyethylene sheeting at a minimum. The entire floor of the decontamination facility shall be covered with two (2) layers of 6-mil polyethylene sheeting turned up 12-16" on the wall layers. The upper layer of floor polyethylene sheeting shall be replaced as wear necessitates. The floor of the shower room shall be sealed and maintained watertight at all times. Leaks shall be immediately cleaned up and then the cause repaired. The interior surfaces of the walls, floor, and ceiling shall then be covered with an additional two layers of 6-mil polyethylene sheeting sealed water and airtight with duct tape at all overlapping seams.
- D. Air Locks: Shall be constructed by placing three overlapping sheets of plastic over a framed doorway, securing each along the top of the doorway. The first and third sheets shall be secured on one side of the doorway and the middle sheet shall be secured on the other side of the doorway. The distance between doorways must allow enough space for one doorway to be closed before the next doorway is opened (i.e., approximately three (3) feet).
- E. Provide heating and HEPA-filtered exhaust ventilation for all decontamination systems so that air flow will be from the clean outside towards the contaminated workspace.
- F. Cleaning: The decontamination facility shall be cleaned using a HEPA-filtered vacuum at least once every shift, or more frequently if needed to prevent residue accumulation.
- G. Prohibitions: Smoking, drinking, or eating shall not be permitted in the work area, Shower Room or Equipment Room. Personal equipment such as radios or flashlights shall not be permitted in the work area, Shower Room or Equipment Room unless they can be washed in the shower.
- H. The Contractor shall post or have available the following items in each clean room of the worker decontamination facility.
- 1. A copy of the U.S. Environmental Protection Agency Regulations for Asbestos, 40 CFR 61 Subparts A and M; and a copy of OSHA Asbestos Regulations, 29 CFR 1926.1101;
 - 2. A copy of the Massachusetts Department of Labor and Workforce Development Regulations for Asbestos, 453 CMR 6.00.

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3. A list of telephone numbers for local hospital, location of hospital and/or emergency squad, local fire department, and the name and telephone number of the Engineer.
 4. A copy of the asbestos abatement Specifications.
 5. A copy of the respirator protection program which conforms to the requirements of 29 CFR 1910.134(b).
 6. A listing of all employees, by name, social security number and Massachusetts Asbestos Abatement Worker or Supervisor/Foreperson Certification Number working on the Project.
 7. A legible copy of each assigned employee's Massachusetts Asbestos License.
 8. A daily sign in/out log which identifies persons by name and Massachusetts Asbestos Certification Number, who are/were at the site, and the length of the time each spent at the site.
- I. A solid, hinged door with a lock shall be installed at the outside entrance to the decontamination facility. Provide a shutter which opens on make-up air inflow and seals on air flow cessation. This door shall be closed and locked whenever the work area is unattended. Two sets of keys for the lock shall be distributed to the Owner.
 - J. Ensure that barriers and plastic linings are effectively sealed and taped at all times, and that the Shower Room floor is watertight. Repair damaged barriers, and remedy defects immediately upon discovery. Visually inspect the facility at the beginning of each work period.
 - K. Maintain emergency and fire exits from the work areas, or establish alternative exits satisfactory to local fire officials and the Engineer. Exits shall be checked daily for exterior blockages or impediments to exiting.
 - L. Signs: Post an approximately 20 inch by 14 inch manufactured caution sign at each entrance to the work area displaying the following legend with letter sizes and styles of a visibility required by 29 CFR 1926:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED
IN THIS AREA

Provide spacing between respective lines at least equal to the height of the respective upper line.

- M. Equipment and Waste Decontamination Facility – The Contractor shall provide a
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separate decontamination facility consisting of a serial arrangement of a holding area and wash room for removal of equipment and material from the work area. No person shall enter or exit work area through Equipment decontamination facility.

2.03 PERSONNEL PROTECTION AND DECONTAMINATION

- A. Protective Clothing
1. Coveralls: Provide disposable full-body coveralls and disposable head covers, and require that they be worn by all workers in the work area. Provide a sufficient number for all required changes, for all workers in the work area.
 2. Boots: Provide work boots with non-skid soles, compliant with OSHA requirements for all workers. Work boots used in asbestos abatement shall be dedicated to use in the work area, and shall not be removed from the work area for any reason. Dispose of boots as asbestos contaminated waste at the end of the work or seal in 6-mil polyethylene bags (with labels) for transportation to another work area.
 3. Goggles: Provide eye protection (goggles) as required by OSHA for all workers involved in scraping, spraying, or any other activity which may potentially cause eye injury.
 4. Gloves: Provide work gloves to all workers and require that they be worn at all times in the work area. Do not remove gloves from work area and dispose of as asbestos-contaminated waste at the end of the work.
 5. Hard Hats: Provide hard hats to all workers and authorized visitors and require that they be worn at all times in the work area. Hard hats shall be worn over the hood of the coveralls.
 6. Additional Protective Equipment: Respirators, disposable coveralls, head covers, and footwear covers shall be provided by the Contractor for the Engineer, and other authorized visitors who may inspect the job site.
- B. Each Time Work Area is Entered: Remove all street clothes in the Changing Room of the Personnel decontamination unit and put on new disposable coverall, new head cover, and a clean respirator. Proceed through Shower Room to Equipment Room and put on work boots.
- C. Decontamination Procedures: All workers shall use the following decontamination procedure as a minimum requirement whenever leaving the work area with a half or full face cartridge type respirator:
1. When exiting area, remove disposable coveralls, disposable head covers, and disposable footwear covers or boots in the Equipment Room.
 2. Still wearing respirators, proceed to showers. Showering is mandatory.

Care must be taken to follow reasonable procedures in removing the respirator and filters to avoid asbestos fibers while showering. The following procedure is required as a minimum:

3. Thoroughly wet body from neck down.
 4. Wet hair as thoroughly as possible without wetting the respirator filter if using an air purifying type respirator.
 5. Take a deep breath, hold it and/or exhale slowly, complete wetting of hair, thoroughly wetting face, respirator and filter (air purifying respirator). While still holding breath, remove respirator and hold it away from face before starting to breathe.
 6. Dispose of wet filters from air purifying respirator.
 7. Carefully wash face piece of respirator inside and out.
 8. Shower completely with soap and water.
 9. Rinse thoroughly.
 10. Rinse Shower Room walls and floor prior to exit.
 11. Proceed from shower to Changing Room and change into street clothes or into new disposable work items.
- D. Workers shall NOT eat, drink, smoke, chew gum or tobacco, or use toilet facilities (either existing or temporary) in the work area. To eat, chew, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-work areas of the building.
- E. The Contractor shall post written procedures in work place and train all personnel on the procedures for the evacuation of the injured and the handling of potential fires. Provide aid to a seriously injured worker without delay for decontamination. Make provisions to minimize exposure of rescue workers and to minimize spreading of contamination during evacuations and fire procedures.
- F. The Contractor shall instruct all employees and workers in the proper care of their personally issued respiratory equipment, including daily maintenance, sanitizing procedures, etc.
- G. All respiratory equipment shall be inspected by Contractor's project supervisory personnel at the beginning of each work period, including breaks and lunch periods. Written records of these inspections shall be maintained for review by the Engineer.

2.04 EXPOSURE CONTROLS AND HEPA-FILTERED EXHAUST VENTILATION

- A. The Contractor shall install inside each work area portable HEPA-filtered exhaust units

to maintain the area, including the Decontamination (and Waste Transfer) Facilities, under negative air pressure, and to reduce and control airborne asbestos fiber concentrations. Exhaust systems shall be operated twenty-four hours per day at all times from the time the Contractor establishes a negative pressure environment until air clearance is achieved.

- B. Each unit shall be serviced by a dedicated minimum 115V-20A circuit with overload device.
- C. The exhaust system must be capable of providing: 1) at least four (4) full air changes per hour in each work area; 2) an inward velocity through any openings, including the decontamination facilities, of at least 200 fpm; and 3) a static negative air pressure inside the area of a minimum of 0.02 inches water column.
- D. The Contractor shall determine number of units needed to achieve the requirements above. Capacity of a unit for purposes of this Section is the capacity, in cubic feet per minute with fully loaded filters, (pressure differential which causes loaded filter warning light to come on) in the machines labeled operating characteristics. Add a minimum of one (1) additional unit as a backup in case of equipment failure or machine shutdown for filter changing.
- E. All exhaust air shall pass through HEPA-filters before being discharged to the exterior of a building. The Contractor shall securely install (and seal with caulking) a solid window or door insert with cutouts sized for the exhaust air duct from each HEPA-exhaust unit. The exterior exhaust discharge point shall be at least 40 feet from a receptor such as an air intake port, louvers, or entrances to the building or an adjoining building.
- F. Locate exhaust unit(s) so that makeup air enters work area primarily through decontamination facilities and traverses work area as much as possible. This may be accomplished by positioning the exhaust unit(s) at a maximum distance from the worker access opening or other makeup air sources.
- G. If there are multiple sealed areas or partition walls within a work area, the exhaust systems shall be arranged so that air flows from the least to most contaminated area, and to prevent spaces from having poor or dead air movement.
- H. Testing the System: Test the negative pressure system before any asbestos-containing material is wetted or removed. After the work area has been prepared, the decontamination facility set up, and the exhaust unit(s) installed, start the unit(s) one at a time. Demonstrate operation and testing of negative pressure system to the Engineer. Demonstrating and testing the operation of the negative pressure system will include, but not be limited to, the following:
 - 1. Plastic barriers and sheeting move lightly in toward work area.
 - 2. Curtain of decontamination units move lightly in toward work area.
 - 3. There is a noticeable movement of air through the decontamination unit. Use

smoke tube to demonstrate air movement from Clean Room to Shower Room, from Shower Room to Equipment Room, and from Equipment Room to work area.

4. Use a differential pressure meter or manometer to demonstrate a pressure difference of at least 0.02 (0.04 desirable) inches of water across every barrier separating the work area from the balance of the building or outside.
 5. The Engineer may use smoke generators to confirm that air flowing through all open areas is directed into the decontamination facilities and isolation barrier, and good air turnover conditions exist within the work area. If deficient air flows are reported to the Contractor, the Contractor shall cease work and promptly correct the deficiency.
- I. Use of System During Abatement Operations:
1. Start exhaust units before beginning work (before any asbestos-containing material is disturbed). After abatement work has begun, run units continuously to maintain a constant negative pressure until final air clearance of the work area is complete. Do not turn off units at the end of the work shift or when abatement operations temporarily stop.
 2. Start abatement work at a location farthest from the exhaust units and proceed toward them. If an electric power failure occurs, immediately stop all abatement work and do not resume until power is restored and exhaust units are operating again.
 3. At completion of abatement work, allow exhaust units to run to remove airborne fibers that may have been generated during abatement work and cleanup and to purge the work area with clean makeup air. The units may be required to run for a longer time after decontamination, if dry or only partially wetted asbestos material was encountered during any abatement work.
- J. On loss of negative air pressure or electric power, all work activities in an area shall stop immediately and shall not resume until power is restored and the HEPA-exhaust systems are operating again. When power failure or loss of negative pressure lasts, or is expected to last, longer than one hour, and then the following shall occur:
1. The make-up air inlets in the decontamination facilities shall be sealed airtight.
 2. The decontamination facilities shall be sealed airtight after the evacuation of all personnel from the work area.
 3. All adjacent areas shall be monitored for asbestos fiber concentration upon discovery of, and subsequently throughout, the power failure.
- K. Monitoring: Continuously monitor and record pressure differential between the work area and the building outside the work area with a monitoring device incorporating a

continuous recorder. Meter shall be equipped with a warning buzzer which will sound if pressure differential drops below 0.02 inches of water. The Contractor shall provide a record of the pressure differential monitoring including date and time to the Owner.

2.05 MATERIALS, TOOLS, AND EQUIPMENT

- A. Negative Air Machines: Supply the required number of asbestos air filtration units to the site in accordance with these specifications. Each unit shall include the following:
1. Cabinet: Constructed of steel or other durable materials able to withstand damage from rough handling and transportation. The width of the cabinet should be less than 30 inches to fit through standard-size doorways. Cabinet shall be factory sealed to prevent asbestos-containing dust from being released during use, transport, or maintenance. Access to and replacement of all air filters shall be from intake end. Unit shall be mounted on casters or wheels.
 2. Fans: Rate capacity of fan according to useable air-moving capacity under actual operating conditions. Use centrifugal-type fan.
 3. HEPA Filters: The final filter shall be the HEPA type. The filter media (folded into closely pleated panels) must be completely sealed on all edges with a structurally rigid frame.
 - a. A continuous rubber gasket shall be located between the filter and the filter housing to form a tight seal.
 - b. Each filter shall be individually tested and certified by the manufacturer to have an efficiency of not less than 99.97 percent when challenged with 0.3 um dioctylphthalate (DOP) particles. Testing shall be in accordance with Military Standard Number 282 and Army Instructions Manual 136-300-175A. Each filter shall bear a UL586 label to indicate ability to perform under specified conditions.
 - c. Each filter shall be marked with: the name of the manufacturer, serial number, air flow rating, efficiency and resistance, and the direction of test air flow.
 4. Pre-filters, which protect the final filter by removing the larger particles, are required to prolong the operating life of the HEPA filter. Two stages of pre-filtration are required. The first-stage pre-filter shall be a low-efficiency type (e.g., for particles 10 um and larger). The second-stage (or intermediate) filter shall have efficiency (eg. effective for particles down to 5 um). Pre-filters and intermediate filters shall be installed either on or in the intake grid of the unit and held in place with special housings or clamps. Pre-filters shall be checked for accumulation at least twice per shift, and shall be changed as frequently as conditions require, especially during asbestos removal or during times of dust creation.

5. Safety and Warning Devices: The unit shall have an electrical (or mechanical) lockout to prevent fan from operating without a HEPA filter or with a filter installed backwards. Units shall be equipped with automatic shutdown system to stop fan in the event of a major rupture in the HEPA filter or blocked air discharge. Warning lights and audible alarms are required to indicate normal operation, too high a pressure drop across the filters (i.e., filter overloading), and too low of a pressure drop (i.e., major rupture is HEPA filter or obstructed discharge).
 6. Flexible hoses (ducts) of sufficient length must be provided to allow the units to discharge outside of building (where possible).
 7. Electrical components shall be approved by the National Electrical Manufacturers Association (NEMA) and Underwriter's Laboratories (UL). Each unit shall be equipped with overload protection sized for the equipment. The motor, fan, fan housing, and cabinet shall be grounded.
- B. Wetting Materials: The contractor shall use water amended with a surfactant to wet asbestos containing materials prior to disturbance. The surfactant shall be intended for use in asbestos abatement projects. The material must be odorless, non-flammable, non-toxic, non-irritating, and non-carcinogenic. It shall be applied as a mist using a low pressure sprayer recommended by the manufacturer. The Contractor shall use a mixture of surfactant and water which results in wetting of the asbestos containing material and retardation of fiber release during disturbance of the material equal to or greater than that provided by the use of one ounce of a surfactant consisting of 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with five gallons of water.
- C. Encapsulants: The Contractor shall provide penetrating or lock-down type encapsulants specifically designed for the use intended. The material shall not contain organic solvents and be non-flammable, non-toxic, non-irritating, and non-carcinogenic.
- D. Polyethylene Sheeting: Provide flame resistant 6 mil polyethylene film that conforms to requirements set forth by the National Fire Protection Association Standard 701, Small Scale Fire Test for Flame-resistant Textiles and Films. Provide largest size possible to minimize seams.
- E. Duct Tape: Provide duct tape in 2" or 3" widths, with an adhesive which is formulated to aggressively stick to sheet polyethylene.
- F. Spray Cement: Provide spray adhesive in aerosol cans which is specifically formulated to stick tenaciously to sheet polyethylene.
- G. Waste Containers: For asbestos waste, provide 6 mil thick leak-tight polyethylene bags labeled with required EPA, DOT, OSHA labels. If the waste material contains sharp edges or may otherwise puncture polyethylene bags, provide drums or other closed containers for storage, transportation, and disposal.
- H. Fans and Leaf Blowers: Provide two leaf blowers and one 20" diameter fan per 10,000

cubic feet of work area volume to be used for aggressive sampling techniques for clearance air testing.

- I. Filters: Provide cascaded filter units on drain lines from showers or any other water source carrying asbestos contaminated water from the work area. Provide units with disposable filter elements as indicated below. Connect so that discharged water passes primary filter and output of primary filter passes through secondary filter.
 - Primary Filter – Capable of filtering particles down to 20 microns in size
 - Secondary Filter – Capable of filtering particles down to 5 microns in size.
- J. Sump Pump: The Contractor shall provide a totally submersible waterproof sump pump with integral float switch. Provide unit sized to pump 2 times the flow capacity of all showers or hoses supplying water to the sump, through the filters specified herein when they are loaded to the extent that replacement is required. Provide unit capable of pumping debris, sand, plaster or other materials washed off during decontamination procedures without damage to mechanism of pump. Adjust float switch so that a minimum of 3" remains between top of liquid and top of sump pan.
- K. Warning Signs and Labels - Shall comply with 29 CFR 1926.1101, and all other federal, state, or local codes and regulations.
- L. Ladders or Scaffolds - Shall be OSHA-approved, and be of sufficient dimensions and quantities so that all work surfaces can be easily and safely accessed by representatives of the Owner. Scaffold joints and ends shall be sealed with tape to prevent incursion of asbestos fibers.
- M. Hand Power Tools - Shall be equipped with HEPA-filtered local exhaust ventilation if used to drill, cut into, or otherwise disturb ACM.
- N. Pressure-Differential Recorder - Provide air pressure sensing devices equipped with recorders for continuous monitoring of work area pressure differential. Provide sufficient quantities of chart paper and maintain devices until completion of work.
- O. Lumber and Plywood - All lumber and plywood used for temporary barriers, platforms, and Decontamination Facilities shall be new and of fire retardant grade to comply with the requirement for a flame spread of 25 or less with no evidence of significant progressive combustion when tested for thirty minutes duration under the Standard Test Method for surface burning characteristics of building materials (ASTM E-84, NFPA 255, UL 723 and AWPA C-20 and C-27). Lumber shall have minimum dimensions of 2" x 4" or as specified. Tongue and groove plywood shall be minimum 3/4 inch thickness; other plywood shall be minimum 1/2 inch thickness.
- P. Vacuum Cleaning Equipment - Shall be industrial type designed for such use, equipped with High Efficiency Particulate Air (HEPA) filters. Separate dedicated vacuum cleaners shall be used for asbestos work and shall be clearly labeled for their intended use. Vacuuming equipment shall be Model GA72 or GA73 as manufactured by NILFISK of America, Inc.; Model CMP-1500-P as manufactured by Car-Mon Products,

Inc.; equipment manufactured by J. D. Brophy, Inc. or equal. Each vacuum cleaner shall be emptied and thoroughly cleaned (inside the work area) at the conclusion of the project, or each use.

PART 3 – EXECUTION

3.01 PRE-ASBESTOS ABATEMENT PREPARATIONS

- A. The Contractor shall prepare each work area as described in this section. Preparation of the work shall be performed according to the following general sequence of steps and procedures to insure that proper containment and protection systems are installed prior to any work that could disturb asbestos-containing materials and generate airborne asbestos fibers:
1. Erect decontamination facilities and install HEPA exhaust units.
 2. Cover any windows, glass doors, or other openings with plywood and plastic sheets; erect any required barriers, coverings, tunnels, or access platforms/scaffolding; post access restriction signs; seal all openings into the work area; install any temporary access openings; and install polyethylene sheeting on all floors and walls (except where noted).
 3. Provide temporary power and lighting as required for work areas.
 4. Clean and remove any non-fixed items from the work area. Items that cannot be cleaned shall be disposed of as asbestos waste.
 5. Carefully clean all surfaces in the work area which may be contaminated with any dust or debris by using a vacuum equipped with a HEPA-filter.
 6. Misting of the area shall be conducted throughout all stages of pre-cleaning and asbestos removal to minimize the generation of airborne fibers.

3.02 ISOLATION OF WORK AREAS

- A. The Contractor shall isolate each work area for the duration of work by completely closing and sealing all openings and doorways into the work area including, but not limited to doorways, corridors, windows, floors and ceiling penetrations, and lighting. Critical isolation/sealing shall be accomplished by using two (2) layers of 6-mil plastic sheeting taped securely in place, or by caulking, including temporary construction as noted in Paragraph C below. The work area shall be protected and sealed airtight to the extent possible.
- B. Emergency and fire exits shall be maintained, or alternative exits shall be established in accordance with applicable codes and regulations. Exits shall be checked daily against blockages or impediments to exiting. Entrances which will not be used by workers shall be locked against unauthorized entry. Arrange exit door so that it is secure from outside the work area but permits exiting from the work area. Mark outline of door on

Primary and Critical Barriers with luminescent paint at least 1" wide. Hang a razor knife on a string beside outline. Arrange Critical and Primary barriers so that they can be easily cut with one pass of razor knife. Paint words "EMERGENCY EXIT" inside outline with luminescent paint in letters at least one foot high and 2" thick. Provide lighted EXIT sign at each exit. Provide battery-operated emergency lighting that switches on automatically in the event of a power failure. Paint arrows on walls and floor with luminescent paint to direct workers to nearest emergency exit.

- C. Isolation Partitions and Barriers - Open doorways etc. shall be sealed airtight with temporary structural partitions as follows:
 - 1. Erect wood or metal studs, 16" o.c., and then cover the opening with 1/2" plywood sheathing (or equivalent) on work area side only.
 - 2. Cover the work side of this partition with a double layer of plastic sheeting with joints staggered and sealed with tape partition at floor, walls, ceiling, and all joints shall be caulked airtight.
- D. Construct rigid enclosures and install Decontamination Facilities as required.
- E. Provide temporary power and lighting to work areas, and ensure safe installation of temporary power sources and equipment per applicable electrical code requirements and OSHA requirements for temporary lighting in the environmental normal to asbestos abatement work areas.
- F. Thoroughly pre-clean all dust or debris from any fixed objects, floors, or other equipment within the work area using HEPA-vacuuming equipment and/or wet washing. Do not use brooms, brushes, mops, or non-HEPA vacuum cleaners for this pre-cleaning work. Seal all seams, joints, covers or casings with tape, and enclose fixed objects or equipment with a minimum of two layers of 6-mil plastic sheeting secured and sealed airtight with duct tape.
- G. Cover floors and walls with two (2) layers of 6-mil polyethylene sheeting. Use strapping to secure 6-mil polyethylene sheeting to walls where needed. Joints in plastic sheets shall be taped and glued in a manner to prohibit air movement, and to prevent passage of water or other liquids. Any floor drains or other openings shall be sealed individually with two (2) layers of 6-mil sheeting and tape. Pits, sumps, and other openings shall be covered with plywood sheathing secured so as to prevent a tripping hazard and then covered with two (2) layers of 6-mil sheeting.
- H. Install work area HEPA-filtered exhaust systems as previously specified.
- I. Warning Signs: The Contractor shall post warning signs in English meeting the requirements of OSHA 29 CFR 1926.1101 at the outside doorway to the decontamination facility which shall be the only non-emergency entrance into the work area. Warning signs shall be readily visible to any person attempting to enter the work area.

- J. Access Restrictions: The Contractor's Supervisor shall at all times monitor the entrance to the decontamination facility to prevent unauthorized people from entering, and to maintain a written log of all people entering the work area.

3.03 CLEANING OF ASBESTOS-CONTAMINATED SURFACES

- A. This section pertains to the cleaning of surfaces which are potentially contaminated with asbestos-containing dust and debris. Cleaning actions shall be performed as preliminary exposure control procedures after performing all other actions which are required to prepare the work area, including installation of Decontamination Facilities, negative air, and an air-tight work area containment. Cleaning shall consist of HEPA-vacuuuming followed by wet mopping of surfaces in a manner which prevents dust generation but effectively rids the surface of all visible debris, dust, film and grime.
- B. Each HEPA-vacuum cleaner shall be separately equipped with an airtight, securely attached hose, of proper length, and a collection wand, brush, and other special attachments appropriate to the required cleaning tasks. The equipment shall be properly operated at all times and shall contain no air leaks. The Engineer may inspect all vacuuming equipment prior to its use, and may request verification of the efficiency of the equipment's filtration.
- C. Cleaning Procedure:
1. Remove large pieces of debris by hand, and then vacuum all specified surfaces using HEPA-filtered equipment and a collection attachment which minimizes dust generation. Surfaces shall be cleaned by working outward from the point of access so that workers do not walk on or disrupt uncleaned surfaces.
 2. Lightly wet the surface of any material that could produce airborne fibers by using an airless sprayer and amended water. Continuously mist the area to minimize airborne fiber concentration.
 3. Collect, package, label, and dispose of vacuumed material as asbestos waste.
 4. Thoroughly wet wipe or mop all surfaces to remove any remaining dirt or grime, being careful not to wet or damage any electrical equipment, furniture, or other sensitive surfaces.
 5. Allow surfaces to completely dry, and then inspect them for any visible remaining dirt or fibrous material.
 6. HEPA-vacuum any remaining dirt or fibers using an efficient collection attachment.
 7. Collect and pump all wastewater through a 5.0 micron filter. Properly dispose of filtered material (and the filter).

3.04 ASBESTOS REMOVAL UNDER GENERAL CONTAINMENT PROCEDURES

- A. This section covers the removal of asbestos-containing materials where conducted inside of a removal area which has been isolated and protected with polyethylene coverings, and has a HEPA-exhaust system and 3-room decontamination facility.
- B. Amended water (wetting agent) mixed and carefully applied using an airless sprayer as specified by the manufacturer, shall continuously be used to control the release of asbestos fibers from the friable material prior to and during removal. The amended water shall be applied in sufficient quantity to fully penetrate and saturate the friable material before it is removed.
- C. Removal:
1. No asbestos removal work shall begin until the work area has been prepared as required by applicable regulations and this Specification. Removal workers shall wear respirators and protective clothing as previously described throughout all removal, cleanup, and waste handling operations.
 2. Small test patches of asbestos material shall be wetted, and then removed and examined to determine degree of saturation prior to removing the bulk of the material. The Contractor may use removal encapsulants instead of amended water; applied per manufacturer's and federal guidelines. Use of high rpm power equipment pressure washers or hydro-blasters for removal of asbestos materials is not acceptable.
 3. The asbestos shall be carefully removed in small sections by hand using scrapers or other suitable tools.
 4. As the material is removed, it shall be promptly wetted and packed into impermeable, labeled 6-mil polyethylene disposal bags and/or appropriate disposable drums. When each bag is full, the packaged material shall be sprayed with amended water, sealed, and transported to a temporary storage area inside of the work area. The Contractor shall not allow accumulations of standing or free water to collect on the work area floor.
 5. The Contractor shall repeatedly mist the work area and spray the friable material to prevent it from drying out. Metal shovels shall not be used to pick up or move waste on a floor.
 6. Once the majority of the asbestos is removed, the Contractor shall scrub the substrate surface and then thoroughly wash all surfaces to remove all remaining material.
 7. The Contractor shall not seal substrate surfaces from which asbestos material was removed with lockdown encapsulants.
 8. The Contractor shall minimize contamination of the work floor, the exterior of disposal containers, and all other surfaces within the work area. At the end of

each shift, all surfaces shall be cleaned of all materials and then HEPA-vacuumed or wet mopped and all debris packaged in 6-mil polyethylene bags.

10. The decontamination facility shall be wet cleaned twice per shift using wet cleaning methods upon completion of any waste removal.
11. Excessive water accumulation or flooding in the work area shall require work to

3.05 CLEANING AND FINAL DECONTAMINATION

- A. This section applies to cleaning all work areas where asbestos removal work has been performed. After all asbestos-containing (or contaminated) materials have been removed, the Contractor shall remove all wastes and perform a thorough multi-stage final cleanup and decontamination of each work area per the methods indicated below. Final cleaning shall be performed only after all waste is packaged and removed, but prior to dismantling any barrier, decontamination facility, or protective coverings. Cleaning shall be subject to the acceptance of the Contractor's project monitoring firm and the Owner's representative based on a visual inspection. HEPA-exhaust systems shall operate continuously throughout the cleaning and air testing processes. The Contractor shall notify the Owner in writing at least 12 hours in advance of the expected completion time of site cleaning to allow for scheduling air clearance testing.
- B. Methods and Approvals: Cleaning methods and approvals shall consist of the following tasks performed in the listed order:
 1. Remove all visible accumulations of asbestos debris on the protective coverings on floors, walls, and other surfaces, and then HEPA vacuum all surfaces to pick up excess water and gross saturated debris. A wet-dry shop vacuum, dedicated to asbestos abatement, may be used before HEPA vacuuming.
 2. After HEPA-vacuuming, the work area air shall be lightly misted, and then all protective coverings on ceilings, walls, floors, and other items in the work area shall be wiped thoroughly clean (first cleaning).
 3. The waste bags shall then be removed from the work area using the procedures described herein. The bottom layer of protective poly coverings, the Decontamination Facilities, the HEPA exhaust systems and all barrier walls shall remain in place and in use. The Contractor shall not apply any encapsulants to any surfaces except where noted herein.
 4. The Contractor shall carefully remove the upper layer of all protective poly coverings on walls and other surfaces and package them in 6-mil waste bags. After these upper protective coverings are removed, the work area shall be completely vacated for at least twelve (12) hours to allow fiber settling.
 5. The Contractor shall then perform a second cleaning of all surfaces in the work area by HEPA-vacuuming and wet washing. After this cleaning, all remaining protective poly coverings shall be carefully removed and disposed of as

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described herein. However, the barrier walls, decontamination facilities, HEPA-exhaust systems, and primary isolation seals shall remain in place and in use. The Contractor shall then perform a third cleaning of all surfaces in the Work Area.

6. The Contractor's project monitoring firm will conduct final clearance sampling. After successful completion of the final air clearance testing, the Contractor shall carefully remove the decontamination facilities and any temporary barrier walls or tunnels. The HEPA-exhaust systems shall be removed only after all other items are removed. A HEPA-vacuum shall be kept on-site during this final disassembly work to cleanup any dust or debris.
9. If any of the PCM air sample results are above 0.01 fibers/cc, additional cleaning and decontamination will be required at no additional cost to the Owner. The above inspection and air tests shall be repeated.
10. Workers shall wear approved respiratory and personal protective equipment throughout all cleanup and waste disposal activities.

3.06 MONITORING, TESTING AND INSPECTION

- A. The Contractor shall hire an Asbestos Project Monitoring Firm to check the integrity of the containment, perform visual inspections, and conduct clearance air monitoring. The performance and execution of the work will also be monitored by the Owner and its representatives. The Contractor shall provide full cooperation and support to the Owner throughout the work.
- B. Upon completion of removal work, but prior to commencing encapsulation or cleaning of the work area, the Contractor's Project Monitor shall conduct a final visual inspection for any visible debris.
- C. Following a successful final visual inspection, the final clearance testing shall be conducted by the Contractor's project monitor place using aggressive air sampling techniques as specified in 453 CMR 6.00. The Contractor shall supply and operate additional circulating fans and leaf blowers as directed by the project monitor during this final testing to ensure effective air circulation. The final test shall consist of taking PCM or TEM air samples in the work area, and analyzing the samples per 453 CMR 6.00.
- C. After achieving the level of cleanliness and decontamination as specified herein and as confirmed by the final inspections and testing, the Contractor shall carefully remove the decontamination facilities and any temporary barriers and Decontamination Facilities. Use HEPA vacuums during final disassemble work to cleanup any dust or debris.
- D. Clearance air monitoring shall be conducted by the Contractor's project monitoring firm and all costs associated with clearance air monitoring shall be included in the Contractor's Lump Sum price. Any costs of subsequent final air clearance testing resulting from an unsatisfactory visual inspection or unsatisfactory air monitoring results

laboratory (i.e., airborne fiber concentrations greater than 0.01 f/cc) shall also be borne by the Contractor.

3.07 REMOVAL AND DISPOSAL OF ASBESTOS ROOFING AND FLASHING MATERIALS

- A. This paragraph specifies the removal, handling, and disposal of asbestos-containing asphaltic and felt built-up roofing, flashing, tar, and other roofing products. The term roofing materials, as used in this Section, refers to all ACM roofing, flashing, tar etc. products found at the site. Use all appropriate care when working on the roof.
- B. As part of the Contractor's Asbestos Abatement Plan, the Contractor shall submit roofing materials removal plans for review and acceptance.
- C. Removal of the roofing materials shall be performed in accordance with all applicable OSHA, DEP, EPA, and MDLWD regulations and policy statements.
- D. Removal of roofing materials will be in a manner that minimizes overall destruction of the roofing components and ensures that no visible emission of asbestos or other dusts occurs. Roofing materials cannot be drilled, sawed, or mechanically abraded in any fashion.
- E. Once removed from the substrate, roofing materials will be immediately prepared for transportation to the approved landfill. The Contractor shall remove no more roofing material than can be transported from the site by the end of daily operations.
- F. Roofing materials will be handled in accordance with the following:
 - 1. Roofing materials will be maintained in a wet condition during all handling/removal procedures.
 - 2. Large roofing material components will be placed into approved dumpsters or transport vehicles immediately upon removal from the building.
 - 3. All roofing material debris or rubble (items small enough to be placed into standard asbestos disposal bags) will be bagged and labeled for disposal as asbestos waste.
- G. Transportation and disposal of roofing materials will be as specified in this Section, 310 CMR 16.00 and 19.00, other applicable regulations, and the following:
 - 1. Contractor shall provide the following types of waste dumpsters:
 - a. Fully enclosed units for all roofing material that is bagged or wrapped and labeled for disposal as asbestos waste.
 - b. Fully enclosed or covered open-top units for large, unwrapped sections of roofing material.
 - 2. All roofing material that is bagged or wrapped and labeled as asbestos waste

will be disposed of at a landfill approved for disposal of asbestos waste. Large, unwrapped sections of roofing material may be transported to an approved landfill and disposed of as general demolition debris, provided the landfill will accept such waste. All open-top dumpsters into which roofing material has been placed will be removed from the work site by the end of the daily operations and transported to the approved landfill site.

- H. A representative of the Owner will visually inspect the roof and roof components for any remaining ACM roofing materials. Contractor shall clean-up any remaining debris/residue to the point of no visible debris.

3.08 WINDOW CAULKING AND GLAZING REMOVAL

- A. Caulking and glazing on the interior and exterior of windows and caulking on exterior door frames have been identified as ACM in the building to be demolished as listed in Table 1. The window caulking and glazing and door caulking shall be removed in accordance with all applicable federal, state, and local requirements and this Section.
- B. Removal of these materials must be performed in a manner that precludes the creation of visible dust or any asbestos from becoming airborne. No sanding, grinding, or mechanical equipment is permitted to be used in removing these materials. Wet the material and remove using hand tools only. Debris shall not be allowed to fall from the building component. All windows and window components and any remaining residue as well as all caulking/glazing waste shall be removed, bagged and disposed in accordance with this Section.
- C. A regulated area shall be established, and polyethylene sheeting placed around the exterior of the building and on floors inside the building at each removal location. Any debris or loose pieces of caulking shall be collected and bagged for disposal each shift.
- D. Workers shall wear protective clothing and respiratory protection suitable for this work activity.
- E. Where staging, scaffolding and/or mechanical lifts are used to access the ACM, the working surfaces shall be protected from contamination.

3.09 ASBESTOS WASTE DISPOSAL PROCEDURES

- A. The Contractor shall package, label, and remove all asbestos waste from the work area as specified below. Packaging shall be accomplished in a manner that minimizes waste volume, but insures waste containers shall not tear or break. Transportation and disposal of the containerized waste at an approved landfill shall be the responsibility of the Contractor. Containers/trailers of bulk loaded asbestos debris materials cross contaminated by other hazardous materials shall display the DOT required orange placards at all times.
- B. Definition: Wastes are defined as all asbestos-containing or potentially contaminated

materials or other items which have not been completely cleaned, and must be removed from the job site. Asbestos wastes may include building materials, insulation, disposable clothing and protective equipment, plastic sheeting and tape, exhaust systems or vacuum filters, contractor equipment, or other materials which have been potentially contaminated with asbestos and have not been fully cleaned.

C. Waste Labeling:

1. Warning labels, having waterproof print and permanent adhesive in compliance with OSHA, EPA and Department of Transportation requirements, shall be affixed to or printed on the sides of all waste bags or transfer containers. Warning labels shall be conspicuous and legible.
2. In compliance with NESHAPS, 40 CFR, Part 61.150, all waste containers or bags shall be labeled with the following generator information:
 - Name of waste generator.
 - Location of where waste was generated.

D. Wetting of Waste: A fine water spray shall be used to keep the top layers of waste in containers thoroughly wet at all times. When a waste bag is full, air within the bags shall be evacuated with a HEPA equipped vacuum and be securely sealed with tape or other secure fastener.

E. Waste Container decontamination and Removal Procedures: The following procedures shall be followed whenever containers or equipment are removed from the work area.

1. The clean room shall be considered a holding area only during the period of active waste transfer for the purpose of the loading of carts or drums. Storage of waste and carts (or drums) in the clean room is prohibited.
2. Waste removal shall not occur during worker shift changes or when workers are showering or changing. Care shall be taken to prevent short circuiting and cycling of air outward through the shower and clean room when used for waste removal.
3. Workers are to be stationed in each room/area of the decontamination facility to transfer the containers and equipment to or from adjacent sections. These workers shall not cross the airlocks into the adjacent areas/rooms until the waste or equipment transfer is finished for that period and the workers have gone through decontamination as required by these Specifications. The workers in the clean room or holding area shall enter from uncontaminated areas with appropriate personal protective equipment; or prior to the start of waste transfer, these workers shall exit the work area, fully decontaminated, and subsequently don clean personal protective equipment.
4. External surfaces of contaminated containers and equipment shall be cleaned by wet cleaning and/or HEPA vacuuming in the work area before moving such

items into the decontamination facility airlock. Workers shall not enter the airlock during this procedure.

5. The containers of waste and the equipment shall be removed from the airlock by workers stationed in the washroom during waste removal operations.
 6. Once in the washroom, external surfaces of contaminated containers and equipment shall be cleaned a second time by wet cleaning.
 7. The cleaned containers of waste and equipment shall be placed in uncontaminated leak-tight plastic bags (or 6-mil sheeting if physical characteristics necessitate and permit). Air volumes shall be minimized, and the bags or sheeting shall be sealed.
 8. The clean re-containerized items shall be moved into the airlock for subsequent transfer to the holding area. The washroom workers shall not enter this airlock or the work area until waste removal is finished for the period.
 9. Re-containerized items and cleaned equipment shall be removed from the airlock to the holding area by workers who have entered from uncontaminated areas with appropriate personal protective equipment.
 10. The re-containerized items of waste and cleaned, bagged equipment shall be placed in closed top, watertight plastic carts or drums. These carts or drums shall be held in the holding area pending removal. The carts or drums shall be HEPA-vacuumed or wet-cleaned following the removal of the containers of waste from them.
 11. The exit from the decontamination facility shall be monitored and secured at all times to prevent unauthorized entry.
 12. The carts or drums may be temporarily stored in a holding area at the work site outside the workplace until a transport vehicle arrives, but such storage areas must be acceptable to the Owner.
- F. If a separate equipment and waste decontamination unit is provided, take all equipment and waste material from the work area through the decontamination facility according to the following procedures:
1. Thoroughly wet clean contaminated equipment or waste container in work area and pass into Wash Room.
 2. Once inside the wash room, wet clean equipment or waste containers. Place poly bags in a second clean poly bag. Wrap large items in a second layer of 6-mil poly.
 3. When cleaning is complete, pass items into holding area. Worker stationed in Wash Room shall not enter the holding area. This worker shall exit via the work area through the personnel/decontamination facility.

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4. Require worker stationed in holding area to wear full protective clothing and appropriate respiratory protection. These workers shall not enter the waste wash area.

- G. Waste Container Storage: The container used for the storage of bagged contaminated waste shall be enclosed. Containers shall have a solid metal roof, solid metal door with padlock. Line the cargo area with two layers of a 6 mil polyethylene sheeting to prevent contamination from damaged or leaking containers. Floor sheeting shall be installed first and shall extend up the sidewalls 24 inches minimum. Wall sheeting shall be overlapped and taped securely into place. No unbagged contaminated waste or non-asbestos waste shall be stored in asbestos waste containers. Ensure that bags placed in containers are undamaged. Warning signs shall be posed on the container in accordance with Sections 29 CFR 1926.1101 of the OSHA regulations.

- H. Waste Removal Scheduling: All waste containers shall be decontaminated and removed from the site before final cleanup is started and isolation barriers are taken down. The Contractor shall record the quantity on the Waste Shipment Record, and arrange for the original of these forms to accompany the waste as it is transported to the landfill.

- I. Waste Transportation and Disposal Regulations: It is the responsibility of the Contractor to determine and insure that he is complying with: 1) the current waste handling regulations applicable to each work site; and 2) the current regulations for transporting and disposing waste at each ultimate disposal landfill. The Contractor must comply fully with these regulations; and with all U.S. Department of Transportation, state, local, and EPA requirements. Where required, the Contractor's waste hauler and disposal contractor shall maintain a valid hazardous waste transporter's permit and identification number; and obtain, complete, and fully comply with any other local hazardous waste manifesting requirements. A copy of all Waste Shipment Records shall be sent to the Owner after disposal is completed and all required data and signatures have been obtained.

3.10 AIR MONITORING BY CONTRACTOR

- A. The Contractor shall perform air monitoring as required to meet OSHA Requirements for maintenance of Time Weighted Average (TWA) fiber counts for types of respiratory protection provided. The Contractor's Project Monitor shall conduct final visual inspections and clearance air monitoring.

- B. The sampling person and analysis laboratory performing this work shall be an independent party not financially or managerially connected to the Contractor, acceptable to the Engineer, and shall meet all requirements of 453 CMR 6.00 and this Specification. The Contractor shall re-clean the area and bear all costs for the additional inspections, testing, and cleaning until the area passes final air clearance.

- C. The laboratory shall be successfully participating in the AIHA/NIOSH Proficiency Analytical Testing (PAT) program and be certified by the Commonwealth of

Massachusetts.

- D. Air sampling materials and equipment requirements are as follows:
1. Sampling for analysis by phase contract microscopy shall employ cellulose ester collection filters with 0.8 micron pore size or less. Cassettes shall be loaded with filters under clean laboratory conditions. A 5.0 micron pore-size cellulose ester backing filter shall be placed behind the collecting filter, followed by the cellulose support pad and the cassette base. A metal cowl or an electrically conductive cowl shall be used in conjunction with the sampling train.
 2. The filter assembly shall be upstream of all other components in the sampling train. An air flow measuring device (when used) shall be downstream of the filter and the pump assembly, or integral with the pump assembly.
 3. Sampling pumps shall supply constant flow.
 4. An air flow measuring/metering device shall be used, and shall be high quality rotometer, mass flow, dry gas meter or critical orifice. Measuring devices shall have a range of at least 1.5 times the desired flow rate and be readable to at least + 5% of the desired flow rate. They shall be calibrated against standards of higher accuracy before and after sampling. The calibrations shall be recorded.
- E. Numbers and frequencies of personal air sampling shall be as required by OSHA regulations but not less than one (1) sample per eight (8) hour work shift during times of asbestos removal work.
- F. Results of sample analysis shall be provided to the Engineer within twenty-four (24) hours of collection.
- G. The Contractor shall use a pre-approved "chain-of-custody" form for all personal air samples he collects.
- H. Personal sampling, including all costs, shall be the complete responsibility of the Contractor.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT AND PAYMENT

- A. All costs associated with the work described herein shall be included in the Lump Sum price. All preparation and incidental work necessary to accomplish the work of this section shall be included in the Lump Sum price.
- B. The Contractor shall include in his bid an allowance of \$20,000 for abatement of additional asbestos containing materials discovered during selective demolition and/or general demolition.

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END OF SECTION

ASBESTOS ABATEMENT
02080- 32

**SECTION 02090
LEAD BASED PAINT MANAGEMENT**

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Furnish all labor, equipment, and materials to maintain compliance with codes and regulations, and health and safety practices with regard to lead containing paint, during demolition of the building at 27 Revere Road in Quincy, Massachusetts. Paint chip sampling and analysis was conducted and the results are attached to this Section. The Contractor must maintain compliance with OSHA and RCRA as they pertain to lead throughout the work.
- B. Examine all Drawings and all other Sections of the Specifications for requirements of related Sections affecting the work of this Section.
- C. The Contractor shall comply with all codes, regulations, and guidelines regarding all work involving the presence of lead-containing paint.
- D. The Contractor shall select means and methods of construction to minimize the generation of lead waste. All lead containing paint management and disposal activities are included in the bid price.
- E. The procedures described herein apply to all demolition work where a worker may be occupationally exposed to lead. It shall be the Contractor's responsibility to protect workers performing under this Contract.
- F. The Contractor shall be responsible for compliance with all codes and regulations pertaining to work practices, hauling and disposal of hazardous waste, hauling and recycling, protection of workers and visitors to the site, and persons occupying areas adjacent to the site.
- G. The Contractor is required to ensure the protection of workers performing any related demolition work that will affect surfaces coated with lead-containing paint as well as protecting the public and the environment from exposure to lead dust.

1.02 RELATED WORK

- A. Division 1: General Requirements
- B. Section 02051: Demolition
- C. Section 02054: Hazardous Material Abatement
- D. Section 02080: Asbestos Abatement
- E. Portions of the work herein require direct coordination with the work of the above noted Related Sections. The General Contractor shall coordinate this with the work of other trades, subcontractors and filed sub-contractors on the site.

1.03 SUBMITTALS

- A. Submit the following in accordance with Division 1.
- B. The Contractor's Health and Safety Plan, including a written respiratory protection plan.
- C. Copies of written medical opinions for each employee who may be occupationally exposed to lead as required by 29 CFR 1926.62 (j)(3)(v).
- D. Employer's Lead Compliance Program as required by 29 CFR 1926.62, including proposed worker training, respiratory protection program and medical monitoring for all employees potentially exposed to lead, including make, model and NIOSH approval numbers of respirators to be used; worker orientation plan; written description of all proposed procedures, methods, or equipment to be utilized, including those that may differ from the Contract Specifications. In all instances, Contractor must comply with all applicable federal, state and local regulations.
- E. Personnel monitoring results if required based on the Contractor's selected Method of Compliance per the OSHA lead standard.
- F. TCLP testing results based on selected means and methods.

1.04 GENERAL APPLICABILITY OF CODES, REGULATIONS AND STANDARDS

- A. Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable codes, regulations, and standards have the same force and effect (and are made part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound within.
- B. The Contractor shall be responsible for compliance with all applicable codes and regulations pertaining to work practices and the protection of workers, visitors to the site, and persons occupying areas adjacent to the site.
- C. US Federal Requirements: The following US Federal Requirements that govern work involving lead paint work or hauling and disposal of lead waste materials apply to this work:
 - 1. U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA) including but not limited to:
 - a. General Industry Standard
Title 29, Part 1910 Code of Federal Regulations
 - b. Respiratory Protection Standard
Title 29, Part 1910, Section 134 of the Code of Federal Regulations
 - c. Construction Industry

Title 29, Part 1926, of the Code of Federal Regulations

- d. Access to Employee Exposure and Medical Records
Title 29, Part 1910, Section 2 of the Code of Federal Regulations
 - e. Hazard Communication
Title 29, Part 1910, Section 1200 of the Code of Federal Regulations
 - f. Specifications for Accident Prevention Signs and Tags
Title 29, Part 1910, Section 145 of the Code of Federal Regulations
2. U.S. Environmental Protection Agency (EPA) including but not limited to:
- a. National Primary and Secondary Ambient Air Quality Standards for Lead
Title 40, Part 50 of the Code of Federal Regulations
 - b. Resource Conservation and Recovery Act
Hazardous Waste Regulation
Title 40, Parts 260-265 of the Code of Federal Regulations
 - c. Guidelines for the Land Disposal of Solid Wastes
Title 40, Parts 241 of the Code of Federal Regulations
 - d. Criteria for Classification of Solid Waste
Title 40, Parts 257 of the Code of Federal Regulations

1.05 DEFINITIONS

- A. The following definitions apply to the performance of the work of this project.
- 1. Action Level: An airborne concentration of lead above 30 micrograms/cubic meter (μm^3) as a time weighted average (TWA) for more than 30 days per year.
 - 2. Area Monitoring: Sampling of lead concentrations within the work area and outside the work area which is representative of the airborne concentrations of lead.
 - 3. Clean Room: An uncontaminated change room directly adjacent to the work area having facilities for storage of employees' personal clothing and uncontaminated work clothes, materials and equipment provided when the airborne exposure to lead is above the PEL.
 - 4. Consultant: Authorized representatives who are under contract with the Owner or the Engineer to perform Lead Paint Consulting services.
 - 5. Decontamination Area: A contained area adjacent to or connected to the work area and consisting of an equipment room, shower area, and clean

room which is used for decontamination of workers, materials and equipment.

6. HEPA Filter Equipment: High efficiency particulate air (HEPA) filtered vacuuming or exhaust ventilation equipment with a UL 586 filter system. Filters shall be of 99.97 percent efficiency for retaining 0.3-micrometer diameter particles.
7. Lead Containing Paint: Paint, varnish, or stain that contains lead in excess of 0.0 mg/cm² or 0.0% lead by weight.
8. Lead Permissible Exposure Limit (PEL): 50 micrograms per cubic meter (µg/m³) of air, based upon an 8-hour time weighted average.
9. Sample Location: Area or place where an air sample is collected.
10. Time Weighted Average (TWA): The TWA is an 8-hour time weighted average for the test of the concentration of lead for worker exposure.
11. Wet Cleaning: The process of removing lead contamination from building surfaces, equipment and other objects by using cloths, mops, or other cleaning tools which have been dampened with water, and by afterwards disposing of these cleaning tools as lead contaminated wastes.
12. Work Area: A controlled-access work area which has plastic sheeting or other containment barriers erected to separate the trades.

1.06 TESTING FOR LEAD BASED PAINT

- A. Paint chip sampling has been conducted for the building. The results of the testing are attached with this Section.
- B. The Contractor shall follow the requirements of this Section regarding demolition/renovation, worker exposure and protection, work area cleaning, and waste disposal.
- C. Work Affected: In general, the following activities are minimum requirements of this Section and affect the demolition/renovation performed on the painted components:
 1. No demolition or renovation activities shall occur which increase the workers' exposure above the Action Level of 30 µg/m³. Contractor shall fully comply with the OSHA lead standard at 29 CFR 1926.62.
 2. Workers shall be informed of the components to be impacted during renovation or demolition that have been identified as containing lead.
 3. Worker protection, at a minimum, shall comply with the OSHA Lead Standard 29 CFR 1926.62. Worker Right to Know and Health and Safety Standards of 1926.62 shall also apply to the work of this Section.

4. Separation of Trades: Unprotected, untrained workers or trades shall not perform any related work within the same vicinity as work involving components identified with lead.

1.07 FEES, PERMITS & LICENSES

- A. The Contractor shall pay all licensing fees, royalties, and other costs necessary for the use of any copyrighted or patented product, design, invention, or process in the performance of the work specified in this Section. The Contractor shall be solely responsible for costs, damages, or losses resulting from any infringement of these patent rights or copyrights. If the Specification requests the use of any product, design, invention, or process that requires a licensing, patent or royalty fee for use in the performance of the job, the Contractor shall be responsible for the fee or royalty fee and shall disclose the existence of such rights.
- B. Contractor shall be responsible for costs for all licensing requirements, where applicable, all notification requirements, and all other fees related to the Contractor's ability to perform the work in this Section.
- C. Secure all necessary permits for work under this Section, including hauling, removal, and disposal, fire, and materials usage, or any other permits required to perform the specified work.

1.08 CLEAN-UP

- A. Maintain the work site in a neat and orderly manner at all times, so as not to interrupt or infringe upon the work of other trades.
- B. Comply with all requirements for release of work areas as described in the project specification.
- C. It is the prerogative of the Owner and/or the Engineer to inspect whenever deemed necessary and the Contractor is responsible for meeting and correcting any deficiencies discovered which do not meet the current applicable regulations and requirements of these specifications.

1.09 COORDINATION

- A. Extend full cooperation to the Owner in all matters involving the use of the Owner's facilities. At no time shall Contractor cause or allow to be caused conditions which may cause risk or hazard to the general public or conditions that might impair safe use of the facility. The use of the facility's electricity, water or like utilities by the Contractor shall be as specified in Division 1.
- B. Coordinate the work of this Section with that of all other trades. Phasing and scheduling of this project shall be subject to the approval of the Owner. The work of this Section shall be scheduled and performed so as not to impede the progress of the project as a whole. Work shall not proceed in any area without the express consent of the Engineer.

- C. Unless specifically authorized by the Owner, the work of this project shall be conducted in accordance with the working hours agreed upon in the Pre-Construction Meeting.
- D. The Engineer may perform visual inspections during the work of this Section at the Engineer's discretion.

1.10 EMERGENCY PRECAUTIONS

- A. The Contractor shall establish emergency and fire exits from the work area.
- B. When an injury occurs, the Contractor shall stop work until the injured person has been removed from the work area.

1.11 DISPOSAL OF WASTE MATERIAL

- A. General
 - 1. The Contractor shall comply with the Resource Conservation and Recovery ACT (RCRA), and applicable local and state regulations.
 - 2. The Contractor shall determine which painted building components that are to be demolished and disposed of require testing by Toxicity Characteristic Leachate Procedure (TCLP) to determine whether the components are a characteristic hazardous waste. The Contractor shall arrange for appropriate disposal of building components. All testing and disposal shall be included in the Contractor's bid price.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. All materials and equipment proposed to be used on this project shall be subject to the acceptance of the Owner and the Engineer. The required materials shall include, but not necessarily limited to the following:
 - 1. Fire retardant polyethylene sheeting, minimum thickness of six (6)-mil.
 - 2. Plastic bags, minimum thickness of six (6)-mil.
 - 3. Duct Tape, up to 3 inch width
 - 4. Lead Warning Signs, as required by Section 3.02, the MA DLWD Regulations, and OSHA Hazard Communication requirements.
 - 5. Flexible duct for ventilation units (if required)
 - 6. Spray adhesive, fire retardant
 - 7. Personal Protective Equipment, NIOSH approved respirators
 - 8. Ventilation units with HEPA filtration and exhaust fans.

9. HEPA vacuums

2.03 TOOLS AND EQUIPMENT

- A. Transportation Equipment: Transportation equipment, as required, shall be suitable for loading, temporary storage, transporting, and unloading waste without exposure to persons or property. All over-the-road transportation equipment must carry the appropriate hazardous waste transport licenses and insurance.
- B. Vacuum Equipment: All vacuum equipment utilized in the work area shall utilize HEPA filtration systems.
- C. Water Sprayer: The water sprayer shall be an airless or other low-pressure sprayer for water application.
- D. Other Tools and Equipment: The Contractor shall provide other suitable tools including but not limited to: rounded edge shovels, rakes, brooms, and carts.
- E. The Contractor shall provide ground fault circuit interrupters (GFCI) to protect all electrical cord and connections.
- F. Approved lighting equipment for use in the work area.
- G. Scaffolding: Scaffolding, as required to accomplish specified work, shall meet all applicable Federal, State and local safety regulations and used in accordance with manufacturer's specifications.

PART 3 - EXECUTION

3.01 SCHEDULING

- A. The Contractor shall coordinate all scheduling with the Owner and the Engineer. A schedule of work shall be submitted to the Owner, prior to contract performance.

3.02 IDENTIFICATION OF HAZARDS

- A. Prior to any work involving lead-containing items, the contractor shall identify all work activities in which a worker may be occupationally exposed to lead.
- B. The Contractor shall initially determine if any worker may be exposed to lead above the action level.

3.03 APPROVALS AND INSPECTIONS

- A. All temporary facilities, work procedures, equipment, materials, services, and agreements must strictly adhere to and meet this Section along with EPA, OSHA, regulations and recommendations as well as federal, state, and local regulations. Where there exists overlap of these regulations, the most stringent one applies. All work performed by the Contractor is further subject to approval of the Owner and/or the Engineer.

3.04 PERSONNEL SAMPLING – CONTRACTOR

- A. Perform personnel air sampling during all demolition work to determine worker exposure limits. The results of such sampling shall be posted, provided to individual workers, and submitted to the Owner and Consultant as described herein.
- B. Provide sampling to check personal exposure levels. Representative sampling shall be taken for the duration of the work shift or for eight hours, whichever is less. Personal samples need not be taken for repeated working conditions if working conditions remain unchanged, but must be taken every time there is a change in the removal operation, either in terms of the location or the type of work. Sampling will be used to determine eight-hour Time-Weighted-Averages (TWA). Personal sampling shall be as outlined in OSHA Standard 29 CFR 1926.62.
- C. Air sampling results shall be transmitted to the Owner and individual workers available at the job site in written form no more than forty-eight (48) hours after the completion of a sampling cycle. The reporting document shall list each sample's result, sampling time and date, personnel monitored and their social security numbers, flow rate, sample duration, sample yield, cassette size, and analyst's name and company, and shall include an interpretation of the results. Air sample analysis results will be reported in micrograms/cubic meter ($\mu\text{g}/\text{m}^3$).
- D. The Contractor's testing lab shall be AIHA accredited for analysis of metals. Contractor shall submit for the Owner's review and acceptance the name and address of the laboratory, certification(s) of AIHA accreditation for metal analysis, listing of relevant experience in air lead analysis, and presentation of a documented Quality Assurance and Quality Control program.
- E. Air monitoring frequency will be established in accordance with the requirements set forth in 29 CFR 1926.62.

3.05 WORK PROCEDURES

- A. The contractor shall initiate, and continue, sufficient engineering and work practice controls, as described in the Contractor's Lead Compliance Program, to reduce and maintain worker exposures to lead at or below the Action Level.
- B. The following work practices are specifically required by these specifications:
 - 1. All persons except those directly involved in the work shall be excluded from the work area. Physical barriers shall be used, where necessary, to limit access to the work area for the duration of the demolition operations. (Warning signs may need to be posted in accordance with applicable regulations.)
 - 2. Provide hand washing facilities and assure that all workers thoroughly wash their hands and face upon exiting the work area. Workers shall pay careful attention to cleanse the hands and face when decontaminating (Provide hygiene facilities, including shower, as required based on initial assessment and continued monitoring.)
 - 3. Thoroughly wet the areas to be demolished and mist the air to reduce the potential for creating airborne lead and dust.

4. All equipment used by the workers inside the work area shall be either left in the work area or thoroughly decontaminated before being removed from the area. Extra work clothing (in addition to the disposable suits supplied by the Contractor) shall be left in the clean area until the completion of work in that area. The clean area shall be cleaned of all visible debris and disposable materials daily.
5. Under no circumstances shall workers or supervisory personnel eat, drink, smoke, chew gum, or chew tobacco in the work area; to do so shall be grounds for the Engineer to stop all demolition operations. Only in the case of life threatening emergency shall workers or supervisory personnel be allowed to remove their protective respirators, if applicable, while in the work area. In this situation, respirators are to be removed for as short a duration as possible.

3.06 DEMOLITION PROCEDURES

- A. Feasible engineering controls shall be implemented by the Contractor as described in the Lead Compliance Program to minimize the possibility of contamination of areas adjacent to the work area. The following activities are the minimum requirements of this Section and affect the demolition performed on the painted components:
 1. No demolition activities may occur which increase the workers exposure above the Action Level of $30 \mu\text{g}/\text{m}^3$. Contractor shall fully comply with the OSHA lead standard 29 CFR 1926.62.
- B. Workers shall be informed of the components to be impacted during demolition that are identified as containing lead.
- C. Separation of Trades: Unprotected, untrained workers or trades shall not perform any related work within the same areas as demolition involving components identified as containing lead. Other trades may not enter these areas until clean-up procedures are completed.

3.08 STORAGE OF WASTE

- A. Use of waste and recycling containers on site shall be controlled under the following requirements:
 1. Location of waste and recycling containers on site shall be coordinated with the Contractor, subject to the Owner's approval.
 2. Waste containers shall be lined with two layers of six-mil polyethylene sheeting, be solid, enclosed containers, locked and sealed at all times. This requirement applies to waste classified as hazardous based on TCLP testing.
 3. Contractor shall comply with all federal, state, and local regulations and ordinances regarding lead waste and recyclable storage.

American Legion Hall
Remediation and Demolition
27 Revere Road
Quincy, Massachusetts
May 30, 2012

PART 4 - MEASUREMENT AND PAYMENT

4.01 MEASUREMENT AND PAYMENT

- A. All costs associated with the work described herein shall be included in the Lump Sum price. All preparation and incidental work necessary to accomplish the work of this section shall be included in the Lump Sum price.

SEE ATTACHED TABLE

**SECTION 02277
EROSION CONTROL**

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes producing, installing, and maintaining haybales, silt fence, and temporary catch basin inlet protection. All erosion control measures shall comply with the Order of Conditions dated August 9, 2011, the Superseding Order of Conditions dated December 2, 2011, and the forthcoming Final Order of Conditions for the Town Brook Enhancement Project. Installation of erosion control measures shall be as shown on the referenced Notice of Intent plans. All provisions of all permits shall be followed.
- B. The demolition work is in a regulated jurisdictional area and shall not commence prior to all relevant permits being obtained for the Town Brook Enhancement project.

1.02 SUBMITTALS

- A. Submit samples and/or materials certification, and test results in accordance with provisions of Division 1.

1.03 QUALITY ASSURANCE

- A. All work under this Section shall conform to the latest edition of each of the following Reference Standards as applicable:
 - 1. Massachusetts Highway Department (MHD) Standard Specifications (for Highways and Bridges), 1988 ed. including all addendum.
 - 2. Local Municipality Standard Details and Specifications.Maintain one copy of each on site.
- B. The Contractor shall adhere to the Order of Conditions dated August 9, 2011 and the Superseding Order of Conditions dated December 2, 2011, and other applicable requirements.

1.04 CONTRACT DRAWINGS

- A. Conforming to Contract requirements, furnish and keep at the job site a set of Contract Documents, which illustrate proposed erosion control procedures.
- B. Clearly, neatly and accurately note on the designated set of the Contract Drawings all changes, revisions, and additions to the work.
- C. Update the designated set of the Contract Drawings promptly as work progresses.

- D. Furnish and keep posted at all times on the job site a copy of the Order of Conditions issued by the Conservation Commission and the Superseding Order of Conditions issued by Massachusetts DEP.

1.05 JOB CONDITIONS

- A. Install soil erosion and sediment control devices (hay bales and silt fence) prior to any soil disturbance, or in proper sequence, and maintain until permanent protection/stabilization is established.
- B. Stabilize disturbed areas within seven (7) days of final grading or within two (2) days if area is not to be final graded immediately.
- C. Maintain disturbed areas until the establishment of permanent grass.

PART 2 — PRODUCTS

2.01 MATERIALS

- A. Hay Bales: Hay bales for construction of erosion control devices shall be new firm, wire or nylon-bound livestock feed-grade and be at least 14 x 18 x 30 inches in size.
- B. Filter Fabric: Filter fabric used for catch basin inlet protection shall be non-biodegradable, non-woven fabric made from fibers of polypropylene and polyethylene type which will effectively retain soil particles while allowing for unimpeded flow of water, such as Mirafi 140N by Mirafi, Inc., Charlotte, NC, 1-800-438-1855, or approved equal.
- C. Crushed Stone: Conform to MHD Specification M2.01.4. Crushed stone shall be uniformly blended clean-washed crushed stone, and shall be subject to the approval of the Owner and the Engineer.

PART 3 — EXECUTION

3.01 EXAMINATION

- A. Examine areas in which work is to be performed. Report in writing to the Engineer all prevailing conditions that will adversely affect satisfactory execution of work.
- B. Verify the locations of proposed erosion control measures.

3.02 INSTALLATION

- A. Install materials and measures required to control soil erosion resulting from construction operations, stormwater runoff, and wind. Such work includes installation of erosion control devices or mulching areas as directed by the Engineer to provide temporary protection.
- B. Hay Bales: Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. Each bale shall be securely anchored by at least two 48-inch long wooden stakes driven through the bales. The first stake in each bale shall be angled toward the previously laid bale to force the bales together. Soil should be compacted on the upslope side of the bales.

- C. Catch Inlet Protection: Catch Basin Inlet Protection shall be placed at all catch basins and/or inlets to drainage structures.

3.03 MAINTENANCE

- A. The Contractor shall inspect all erosion control devices on a weekly basis and after every rainstorm. The Contractor shall be responsible for removing silt deposits greater than six (6) inches deep, and for replacing/repairing any damaged or deteriorated erosion control devices.
- B. Erosion control devices shall be maintained by the Contractor until all disturbed earth has been paved or fully stabilized. Areas disturbed as a result of removing erosion control devices shall be fully stabilized.
- C. The Contractor shall be responsible for the removal of all erosion control devices subsequent to the establishment of grass vegetation as determined by the Engineer.
- D. Erosion control problems created by the Contractor, and beyond the scope of work, shall be immediately corrected by the Contractor at no additional cost to the Owner.

PART 4 COMPENSATION

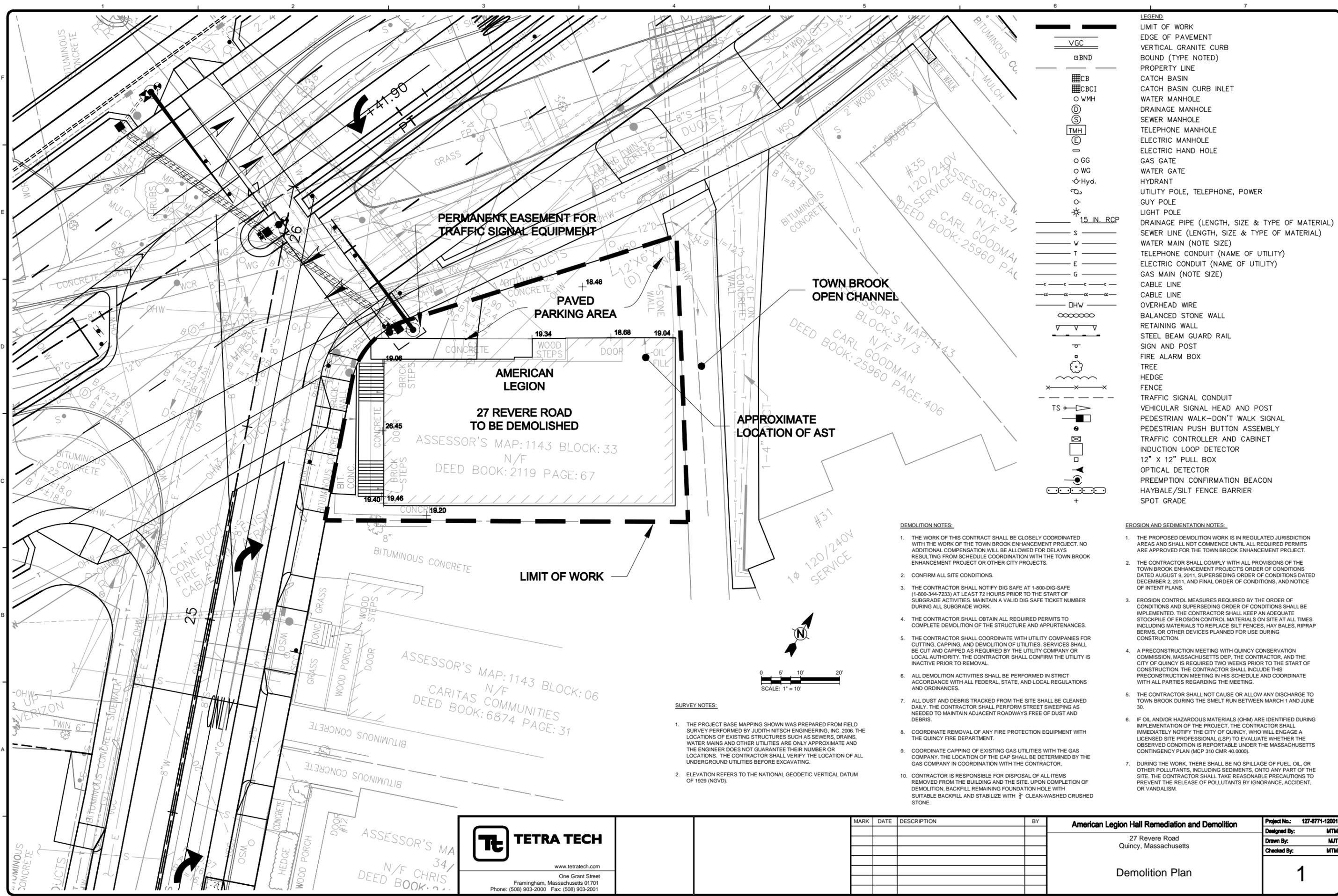
4.01 METHOD OF MEASUREMENT

- A. No separate measurement will be made for the work of this section.

4.02 BASIS OF PAYMENT

- A. All erosion control measures will be considered incidental to the Work and will not be measured or paid for separately.

END OF SECTION



LEGEND	
	LIMIT OF WORK
	EDGE OF PAVEMENT
	VERTICAL GRANITE CURB
	BOUND (TYPE NOTED)
	PROPERTY LINE
	CATCH BASIN
	CATCH BASIN CURB INLET
	WATER MANHOLE
	DRAINAGE MANHOLE
	SEWER MANHOLE
	TELEPHONE MANHOLE
	ELECTRIC MANHOLE
	ELECTRIC HAND HOLE
	GAS GATE
	WATER GATE
	HYDRANT
	UTILITY POLE, TELEPHONE, POWER
	GUY POLE
	LIGHT POLE
	DRAINAGE PIPE (LENGTH, SIZE & TYPE OF MATERIAL)
	SEWER LINE (LENGTH, SIZE & TYPE OF MATERIAL)
	WATER MAIN (NOTE SIZE)
	TELEPHONE CONDUIT (NAME OF UTILITY)
	ELECTRIC CONDUIT (NAME OF UTILITY)
	GAS MAIN (NOTE SIZE)
	CABLE LINE
	CABLE LINE
	OVERHEAD WIRE
	BALANCED STONE WALL
	RETAINING WALL
	STEEL BEAM GUARD RAIL
	SIGN AND POST
	FIRE ALARM BOX
	TREE
	HEDGE
	FENCE
	TRAFFIC SIGNAL CONDUIT
	VEHICULAR SIGNAL HEAD AND POST
	PEDESTRIAN WALK-DON'T WALK SIGNAL
	PEDESTRIAN PUSH BUTTON ASSEMBLY
	TRAFFIC CONTROLLER AND CABINET
	INDUCTION LOOP DETECTOR
	12" X 12" POOL BOX
	OPTICAL DETECTOR
	PREEMPTION CONFIRMATION BEACON
	HAYBALE/SILT FENCE BARRIER
	SPOT GRADE

DEMOLITION NOTES:

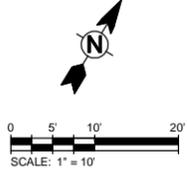
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2. CONFIRM ALL SITE CONDITIONS.
3. THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-800-DIG-SAFE (1-800-344-7233) AT LEAST 72 HOURS PRIOR TO THE START OF SUBGRADE ACTIVITIES. MAINTAIN A VALID DIG SAFE TICKET NUMBER DURING ALL SUBGRADE WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS TO COMPLETE DEMOLITION OF THE STRUCTURE AND APPURTENANCES.
5. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR CUTTING, CAPPING, AND DEMOLITION OF UTILITIES. SERVICES SHALL BE CUT AND CAPPED AS REQUIRED BY THE UTILITY COMPANY OR LOCAL AUTHORITY. THE CONTRACTOR SHALL CONFIRM THE UTILITY IS INACTIVE PRIOR TO REMOVAL.
6. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND ORDINANCES.
7. ALL DUST AND DEBRIS TRACKED FROM THE SITE SHALL BE CLEANED DAILY. THE CONTRACTOR SHALL PERFORM STREET SWEEPING AS NEEDED TO MAINTAIN ADJACENT ROADWAYS FREE OF DUST AND DEBRIS.
8. COORDINATE REMOVAL OF ANY FIRE PROTECTION EQUIPMENT WITH THE QUINCY FIRE DEPARTMENT.
9. COORDINATE CAPPING OF EXISTING GAS UTILITIES WITH THE GAS COMPANY. THE LOCATION OF THE CAP SHALL BE DETERMINED BY THE GAS COMPANY IN COORDINATION WITH THE CONTRACTOR.
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EROSION AND SEDIMENTATION NOTES:

1. THE PROPOSED DEMOLITION WORK IS IN REGULATED JURISDICTION AREAS AND SHALL NOT COMMENCE UNTIL ALL REQUIRED PERMITS ARE APPROVED FOR THE TOWN BROOK ENHANCEMENT PROJECT.
2. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE TOWN BROOK ENHANCEMENT PROJECT'S ORDER OF CONDITIONS DATED AUGUST 9, 2011, SUPERSEDING ORDER OF CONDITIONS DATED DECEMBER 2, 2011, AND FINAL ORDER OF CONDITIONS, AND NOTICE OF INTENT PLANS.
3. EROSION CONTROL MEASURES REQUIRED BY THE ORDER OF CONDITIONS AND SUPERSEDING ORDER OF CONDITIONS SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL KEEP AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS ON SITE AT ALL TIMES INCLUDING MATERIALS TO REPLACE SILT FENCES, HAY BALES, RIPRAP BERMS, OR OTHER DEVICES PLANNED FOR USE DURING CONSTRUCTION.
4. A PRECONSTRUCTION MEETING WITH QUINCY CONSERVATION COMMISSION, MASSACHUSETTS DEP, THE CONTRACTOR, AND THE CITY OF QUINCY IS REQUIRED TWO WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE THIS PRECONSTRUCTION MEETING IN HIS SCHEDULE AND COORDINATE WITH ALL PARTIES REGARDING THE MEETING.
5. THE CONTRACTOR SHALL NOT CAUSE OR ALLOW ANY DISCHARGE TO TOWN BROOK DURING THE SMELT RUN BETWEEN MARCH 1 AND JUNE 30.
6. IF OIL AND/OR HAZARDOUS MATERIALS (OHM) ARE IDENTIFIED DURING IMPLEMENTATION OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF QUINCY, WHO WILL ENGAGE A LICENSED SITE PROFESSIONAL (LSP) TO EVALUATE WHETHER THE OBSERVED CONDITION IS REPORTABLE UNDER THE MASSACHUSETTS CONTINGENCY PLAN (MCP 310 CMR 40.0000).
7. DURING THE WORK, THERE SHALL BE NO SPILLAGE OF FUEL, OIL OR OTHER POLLUTANTS, INCLUDING SEDIMENTS, ONTO ANY PART OF THE SITE. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT THE RELEASE OF POLLUTANTS BY IGNORANCE, ACCIDENT, OR VANDALISM.

SURVEY NOTES:

1. THE PROJECT BASE MAPPING SHOWN WAS PREPARED FROM FIELD SURVEY PERFORMED BY JUDITH NITSCH ENGINEERING, INC. 2006. THE LOCATIONS OF EXISTING STRUCTURES SUCH AS SEWERS, DRAINS, WATER MAINS AND OTHER UTILITIES ARE ONLY APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR NUMBER OR LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE EXCAVATING.
2. ELEVATION REFERS TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).



TETRA TECH
 www.tetrattech.com
 One Grant Street
 Framingham, Massachusetts 01701
 Phone: (508) 903-2000 Fax: (508) 903-2001

MARK	DATE	DESCRIPTION	BY

American Legion Hall Remediation and Demolition
 27 Revere Road
 Quincy, Massachusetts

Demolition Plan

Project No: 127-8771-12001
 Designed By: MTM
 Drawn By: MJT
 Checked By: MTM

1

Copyright: Tetra Tech
 Bar Measures 1 inch

5/8/2012 3:16:49 PM - P:\6771\127-8771-12001\CAD\SHSHEET\FILES\XP-SHEET1_DEMOPLAN_PLOT.DWG - TUMOLO, MICHAEL

FORM FOR GENERAL BID

To the Awarding Authority:

A. The undersigned proposes to furnish all labor and materials required for

Project No. _____ Contract No. _____

Project Name: **American Legion Hall Remediation and Demolition** _____

in Quincy, Massachusetts, in accordance with the accompanying plans and specifications prepared by Tetra Tech, Inc. for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

B. This bid includes addenda numbered _____

C. The proposed contract price is _____

_____ (total bid in words) dollars (\$ _____).

Name of General Bidder _____

BASE BID

The Base Bid is subdivided as follows:

SECT.	ITEM	ESTIMATED QUANTITY	UNIT MEASURE	UNIT PRICE DOLLARS/CENTS	TOTAL AMOUNT DOLLARS/CENTS
02051 and all related Sections*	Demolition of Building	1	Lump Sum	\$ _____	\$ _____
02054	Hazardous Materials Abatement	1	Lump Sum	\$ _____	\$ _____
02080	Asbestos Abatement-Base Bid	1	Lump Sum	\$ _____	\$ _____
02080	Asbestos Abatement-Allowance	1	Allowance	\$20,0000	\$20.000
02090	Lead Paint Management	1	Lump Sum	\$ _____	\$ _____
02277	Erosion Control	1	Lump Sum	\$ _____	\$ _____
TOTAL BASE BID					\$ _____

*Includes the work of all Division 0 and Division 1 and Sections 02040, 02050, 02052, and 02055.

UNIT PRICES

Unit add/deduct prices are to be provided by the Contractor, for the removal and proper disposal of asbestos-containing materials as specified in Section 02080, including but not limited to the costs for labor, materials, and administrative requirements required for work area preparation and removing and disposing the following materials:

Type of asbestos-containing material or other hazardous material to be removed	Price (\$) Add/ Deduct
1. Asbestos containing floor tile - single layer	/sf
2. Asbestos containing floor tile - additional layer	/sf
3. Asbestos containing floor tile and mastic adhesive	/sf
4. Asbestos containing floor tile and mastic adhesives (2 layers)	/sf
5. Asbestos-containing linoleum floor sheeting and mastic adhesive	/sf
6. Asbestos-containing linoleum floor sheeting and mastic adhesive (2 layers)	/sf
7. Asbestos-containing mastic adhesive and associated floor boards	/sf
8. Asbestos-containing thermal system pipe insulation	/lf
9. Asbestos-containing thermal system mudded pipe fitting insulation	/fitting
10. Asbestos-containing boiler insulation	/sf
11. Asbestos-containing sink basin condensate	/sink
12. Asbestos-containing window caulking	/lf
13. Asbestos-containing window glazing compound	/window
14. Demolition of boilers/furnaces to access for internal asbestos-containing components	/boiler
15. Abatement of roof tar flashing	/sf
16. Abatement of roof felts	/sf
17. Abatement of rolled roofing	/sf
18. Cost to remobilize to the site to remove additional asbestos	/ea.

D. The undersigned agrees that, if it is selected as general contractor, it will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this bid and furnish a performance bond and also a labor and materials or payment bond, each of a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the awarding authority and each in the sum of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price.

The undersigned hereby certifies that it is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that it will comply fully with all laws and regulations applicable to awards made subject to section 39M of Chapter 30 of the General Laws.

The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

The undersigned further certifies under penalties of perjury that the undersigned is not debarred from doing public construction work under any law, rule or regulation of the federal government.

The undersigned hereby declares that the undersigned has carefully examined the Advertisement, Instructions to Bidders, Owner - Contractor Agreement, General Conditions of the Contract, Special Conditions (if any), Plans and Specifications, all other Contract Documents, and also the Site upon which the proposed work is to be performed. The undersigned further declares that in regard to the conditions affecting the work to be done and the labor and materials needed, this proposal is based solely on the undersigned's own investigation and research and not in reliance upon any representation of any employee, officer or agent of the Commonwealth.

The undersigned further certifies under the penalties of perjury that:

- this bid is in all respects bona fide, fair and made without collusion or fraud with any other person;
 - we are the only persons interested in this proposal;
 - that it is made without any connection with any other person making any bid for the same work and without directly or indirectly influencing or attempting to influence any other person to bid to refrain from bidding or to influence the amount of the bid of any other person or corporation;
 - that no person acting for, or employed by, the Commonwealth of Massachusetts is directly or indirectly interested in this proposal, or in any contract which be made under it, or in expected profits to arise therefrom.
- As used above the word "person" shall mean natural person, joint venture, partnership, corporation or other business or legal entity.

The undersigned certifies that it shall comply with the provisions of the Equal Employment Opportunity, Non-Discrimination, and Affirmative Action Program set forth in Article XII of the General Conditions of the Contract.

Should the Contract Documents require submission of special data to accompany the bid, the Awarding Authority reserves the right to rule the bidder's failure to submit such data an informality and to receive said data subsequently within a reasonable time as set by the Awarding Authority.

Date _____, 2012.

(Name of General Bidder)

By _____
(Name of Person Signing Bid and Title)

(Business Address)

(City and State)

(Telephone Number)

(Facsimile Number)

The following information is furnished by the Bidder for the information of the Division of Capital Asset Management and Maintenance.

Is Bidder a corporation? ____ If so, incorporated in what state? _____

President _____

Secretary or Clerk _____

Treasurer _____

If Bidder is a foreign corporation, is it registered to do business in Massachusetts? ____

If Bidder is a foreign corporation and is selected, Bidder is required under M.G.L. c. 30, s. 39L to obtain from the Massachusetts Secretary of State, One Ashburton Place, 17th floor, a certificate stating that the corporation is registered to do business in Massachusetts, and to furnish said certificate to the awarding authority prior to the award.

Is Bidder a general partnership or joint venture? ____ If so, name each partner or venturer _____

Is Bidder a limited partnership? _____

Is Bidder registered in Massachusetts? ____ If so, name each general partner ____

If Bidder is a foreign limited partnership and is selected, Bidder is required under M.G.L. c. 30, s. 39L to obtain from the Massachusetts Secretary of State, One Ashburton Place, 17th floor, a certificate stating that the partnership is registered to do business in Massachusetts, and to furnish said certificate to the awarding authority prior to the award.

For each general partner or venturer that is a corporation, provide the following information (use additional sheets if necessary):

Name of corporation _____

State of incorporation _____

President _____

Secretary or Clerk _____

Treasurer _____

Name of corporation _____

State of incorporation _____

President _____

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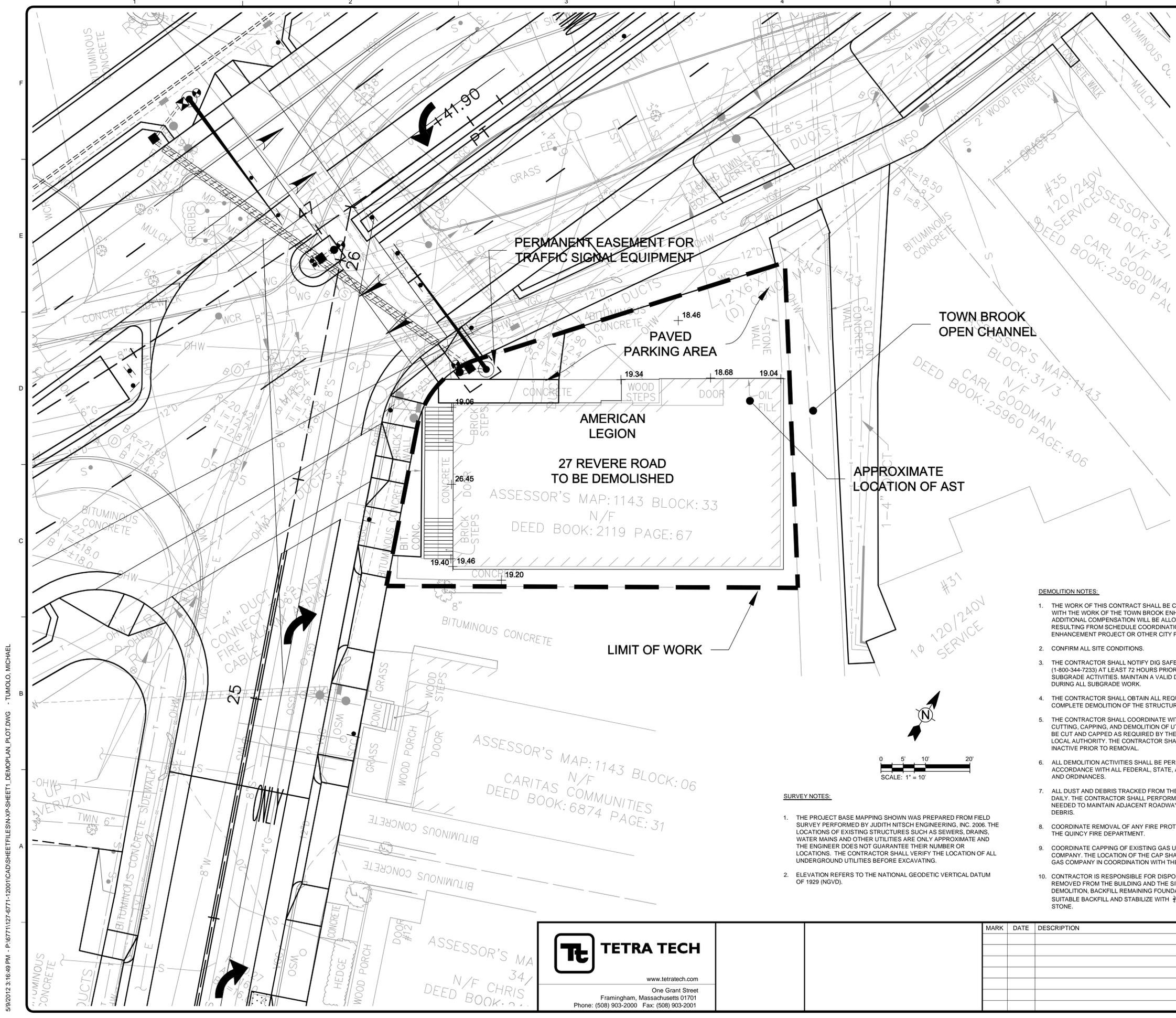
Is Bidder an individual? _____

Residence Address _____

Name under which Bidder does business _____

Business Address _____

If selected Bidder is an individual doing business under a different name then Bidder must furnish evidence of any required DBA filing.



LEGEND	
	LIMIT OF WORK
	EDGE OF PAVEMENT
	VERTICAL GRANITE CURB
	BOUND (TYPE NOTED)
	PROPERTY LINE
	CATCH BASIN
	CATCH BASIN CURB INLET
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	12" X 12" PULL BOX
	OPTICAL DETECTOR
	PREEMPTION CONFIRMATION BEACON
	HAYBALE/SILT FENCE BARRIER
	SPOT GRADE

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6. IF OIL AND/OR HAZARDOUS MATERIALS (OHM) ARE IDENTIFIED DURING IMPLEMENTATION OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF QUINCY, WHO WILL ENGAGE A LICENSED SITE PROFESSIONAL (LSP) TO EVALUATE WHETHER THE OBSERVED CONDITION IS REPORTABLE UNDER THE MASSACHUSETTS CONTINGENCY PLAN (MCP 310 CMR 40.0000).
7. DURING THE WORK, THERE SHALL BE NO SPILLAGE OF FUEL, OIL, OR OTHER POLLUTANTS, INCLUDING SEDIMENTS, ONTO ANY PART OF THE SITE. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT THE RELEASE OF POLLUTANTS BY IGNORANCE, ACCIDENT, OR VANDALISM.

SURVEY NOTES:

1. THE PROJECT BASE MAPPING SHOWN WAS PREPARED FROM FIELD SURVEY PERFORMED BY JUDITH NITSCH ENGINEERING, INC. 2006. THE LOCATIONS OF EXISTING STRUCTURES SUCH AS SEWERS, DRAINS, WATER MAINS AND OTHER UTILITIES ARE ONLY APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR NUMBER OR LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE EXCAVATING.
2. ELEVATION REFERS TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).

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MARK	DATE	DESCRIPTION	BY

American Legion Hall Remediation and Demolition
27 Revere Road
Quincy, Massachusetts

Demolition Plan

Project No.:	127-6771-12001
Designed By:	MTM
Drawn By:	MJT
Checked By:	MTM
1	

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Bar Measures 1 inch