DOCUMENTS AND SPECIFICATIONS

FOR

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE PHASE 3 SALEM, MA

CITY OF SALEM

100% Construction Documents

May 25, 2016

CBI Consulting Inc.

250 Dorchester Avenue Boston, Massachusetts 02127 (617) 268-8977 Fax (617) 464-2971 jdossantos@cbiconsultinginc.com

CBI JOB #: 11195-E

CBI Consulting Inc. Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE

OF PAGES

TABLE OF CONTENTS

2

SECTION

BIDDING DOCUMENTS	
00 00 40 - LEGAL NOTICE	1
00 00 50 - INVITATION TO BID	1
00 10 00 - INSTRUCTION TO BIDDERS	4
00 30 10 - CHECKLIST SUBMISSION REQUIREMENTS	1
00 30 20 - BID COVER SHEET	1
00 30 30 - FORM FOR GENERAL BID	5
00 30 35 - GENERAL BIDDER QUALIFICATIONS FORM	5
00 30 40 - CERTIFICATE OF NON-COLLUSION	1
00 30 50 - STATEMENT OF CORPORATE AUTHORITY	1
00 30 60 - OSHA CERTIFICATION	1
00 40 00 - GENERAL TERMS AND CONDITIONS	3
PREVAILING WAGE RATES SCHEDULES	33
CONTRACT DOCUMENTS	
00 50 00 - AIA STANDARD FORM OF AGREEMENT - A101	7
00 61 00 - AIA PERFORMANCE BOND AND PAYMENT - A312	8
00 63 00 - AIA APPLICATION AND CERTIFICATE FOR PAYMENT G702, G703	3 2
00 64 00 - AIA CERTIFICATE OF SUBSTANTIAL COMPLETION - G704	1
00 65 00 - AIA SUPPLEMENTAL ATTACHMENT FOR ACORD CERTIFICATE	
OF INSURANCE - G715	1
00 65 50 - AIA CHANGE ORDER - G701	1
00 66 00 - GENERAL RELEASE AND WAIVER OF LIEN-GENERAL	
CONTRACTOR	1
00 66 10 - GENERAL RELEASE AND WAIVER OF LIEN-GENERAL	
SUB-CONTRACTOR	1
00 70 00 - AIA GENERAL CONDITIONS - A201	40
00 85 10 - DRAWING LIST	1

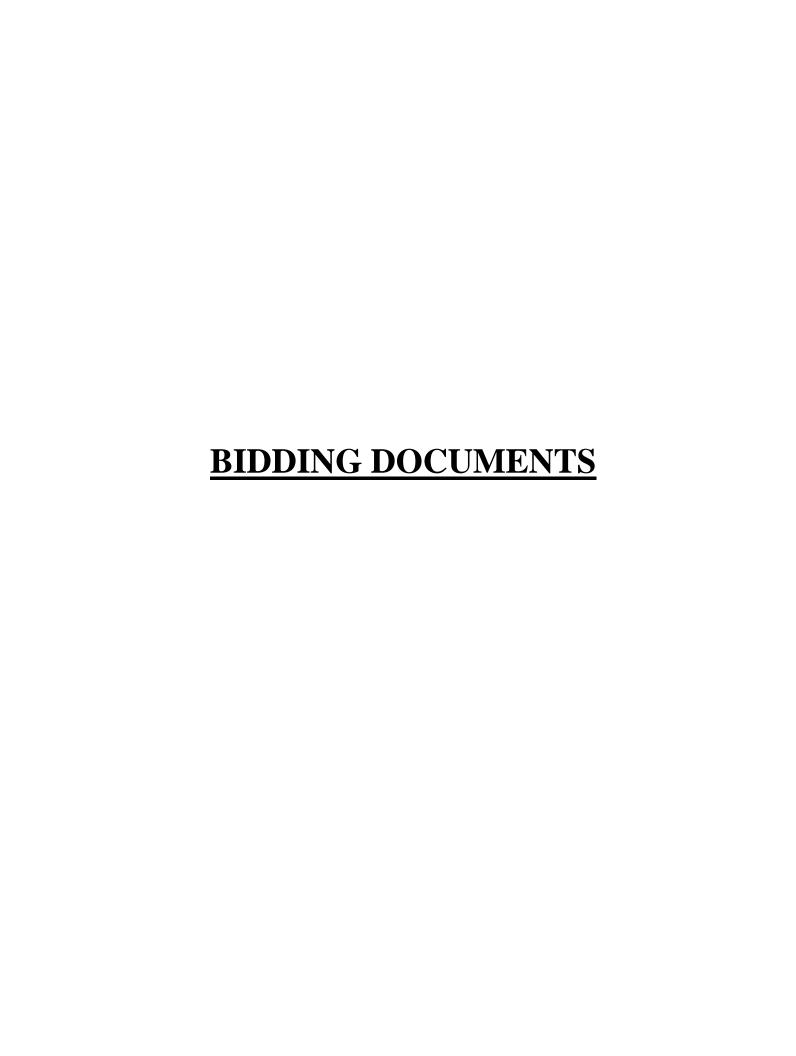
TECHNICAL SPECIFICATIONS

DIVISION 01	GENERAL REQUIREMENTS
01 01 00 - SUMMARY OF WORK	4
01 02 00 - UNIT PRICES	2
01 03 00 - SPECIAL PROJECT PROCEDURES	8
01 04 00 - CONDUCT OF WORK	2
01 05 00 - COORDINATION	4
01 09 00 - DEFINITIONS AND STANDARDS	3

TABLE OF CONTENTS

PAGE - 1

HISTORIC REPAIRS TO SALEM COMMON	CBI Consulting Inc.
CAST-IRON FENCE – PHASE 3	Boston, Massachusetts
SALEM, MA	Tel: (617) 268-8977
CBI JOB NO. 11195-C	Fax: (617) 464-2971
DIVISION 01 (CONT.)	GENERAL REQUIREMENTS
01 30 00 - SUBMITTALS	11
01 40 00 - QUALITY CONTROL	2
01 50 00 - TEMPORARY FACILITIES	6
01 51 00 - PROTECTION	3
01 70 00 - PROJECT CLOSEOUT	2
01 72 00 - SURVEYS AND RECORD DRAWING	
DIVISION 02 SUBSURFACE I	NVESTIGATION & DEMOLITION
02 20 00 - EXCAVATION AND BACKFILL	4
02 41 00 - SELECTIVE DEMOLITION	5
02 83 00 - LEAD PAINT CONSIDERATIONS	8
02 90 10 - LANDSCAPING REPAIR	10
DIVISION 05	METALS
05 59 90 - ORNAMETAL IRON	11
DIVISION 07 THERMA	I AND MOISTINE PROTECTION
	L AND MOISTURE PROTECTION
07 92 13 - ELASTOMERIC JOINT SEALANTS	3
DIVISION 09	FINISHES
09 91 00 - PAINTING	4



LEGAL NOTICE CITY OF SALEM BID # R-70

Sealed Bids will be received at the Office of the City Purchasing Agent, 93 Washington Street, 3rd floor, Salem, MA 01970, on or before **2:00 P.M., June 9, 2016** at which time and place they will be <u>publicly</u> opened and read aloud for the following:

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE

The **Bid** award is made by the Purchasing Agent and is subject to **Mayoral** approval. The City of Salem reserves the right to reject any and all bids or to waive any informalities in the Bid process, if deemed in the City's best interest. The site is listed in the National Register of Historic Places and the project is being partially funded with a grant from the Massachusetts Preservation Properties Fund, Massachusetts Historical Commission. State law prohibits discrimination. Awarding of this contract is subject to Affirmative Action and Equal Opportunity guidelines. All work must comply with the Secretary of the Interior's *Standards for the Treatment of Historic Properties with Guidelines for the Treatment of Cultural Landscapes*.

A pre-bid conference will be held on **June 1, 2016 at 9:00 A.M.** at 93 Washington Street 3rd floor, Salem. Contact Erin Schaeffer, Department of Planning and Community Development, for directions at (978) 619-5685.

Bid Documents containing Specifications, Requirements, and Conditions will be/are available to view after **10:00 AM**, **May 25, 2016**, at the Office of the City Purchasing Agent, 93 Washington Street 3rd Floor, Salem, MA and may be viewed and printed from www.comm-pass.com, search solicitations R-70, or www.salem.com within the Purchasing Department, under Bids and RFP's, R-70.

Office Hours:

Mon., Tues., Wed., 8:00AM – 4:00PM Thurs. 8:00AM – 7:00PM Fri. 8:00AM – 12:00PM (noon)

Whitney C. Haskell Purchasing Agent May 17, 2016

INVITATION FOR BID

The City of Salem invites sealed bids for **Historic Repairs to Salem Common Cast-Iron Fence**. The site is listed in the National Register of Historic Places and the project is being partially funded with a grant from the Massachusetts Preservation Properties Fund, Massachusetts Historical Commission. All work must comply with the Secretary of the Interior's *Standards for the Treatment of Historic Properties with Guidelines for the Treatment of Cultural Landscapes*. Bid Documents will be available for pick up during normal business hours **after 10:00AM on Wednesday, May 25, 2016** at the Office of the City Purchasing Agent, Salem City Hall, 93 Washington St, 3rd Floor, Salem. City Hall Office hours are as follows: Mondays - Wednesdays 8AM – 4PM, Thursdays 8AM – 7PM, and Fridays 8AM – 12PM (noon).

A pre-bid conference will be held on **Wednesday**, **June 1**, **2016 at 9:00AM** at Salem City Hall, 93 Washington St., 3rd floor Conference Room. Contact Erin Schaeffer, at the City of Salem Department of Planning & Community Development for directions at 978-619-5685.

Each bidder shall fully acquaint him/herself with and examine the Contract and Bidding Documents. Failure of any bidder to acquaint him/herself with these documents shall in no way relieve bidder from any obligation with respect to his/her bid.

Sealed bids shall be received **on or before 2:00 PM, Thursday, June 9, 2016** at the Office of the City Purchasing Agent, Salem City Hall, 93 Washington Street, 3rd floor, Salem, Massachusetts 01970.

Bids will be valid only when accompanied by a bid deposit in the form of a certified check, issued by a responsible bank or trust company, or a bid bond duly executed by the bidder as principal and having as surety thereon a surety company approved by the City, all in the amount of 5% of the total bid, payable to the "City of Salem".

Prior to the contract execution, the successful bidder will be required to furnish:

- 1. Labor and Materials Payment Bond and a Performance Bond being 100% of the amount of the Contract Price, issued by a company Licensed by the Division of Insurance of the Commonwealth of Massachusetts and in accordance with the requirements of the contract documents.
- 2. Certificate of Insurance with Workers Compensation Coverage in the amounts required by the contract documents.

This bid is solicited to the public pursuant to the rules set forth in M.G.L. 30,39M. The Awarding Authority reserves the right to waive any informalities and to reject any or all bids if it is in the public interest to do so

INSTRUCTIONS TO BIDDERS

All bidders must adhere to the following instruction. Bids that do not meet all the requirements of these instructions will not be considered.

1. Formal Cover Sheet and Bid Form

All information must be typewritten or printed in ink, including the price(s) that the successful contractor proposes in the space(s) provided on the official Cover Sheet and Bid Form. These forms must be signed by the contractor.

2. Other Required Forms

All contractors must sign and submit with their price quote the **Attestation Clause** regarding Massachusetts State tax returns and **Certificate of Non-Collusion.**

3. Bid Security Deposit

Bids will be valid only when accompanied by a bid deposit in the amount of 5% of the total bid, payable to the "City of Salem". The Bid Deposit shall not be enclosed in the sealed envelope containing the Bid, but shall be contained in a separate envelope attached to the bid

4. Payment Bond

If the Quote Total is greater than \$2,000, at the time of contract award the successful contractor shall present to the City of Salem a 100% Payment Bond issued by a company licensed by the Massachusetts Division of Insurance.

5. Bidder Qualifications

The bid will be awarded to the lowest and responsible bidders possessing the skill, ability and integrity necessary for the faithful performance of the work (applicable to M.G.L. c. 30, section 39M). Bidders are directed to complete to the Bidder Qualifications Form to provide information regarding the contractor's satisfaction of these requirements.

Qualified bidders shall demonstrate that they have the size and capacity to perform the restoration/preservation of large historic ironwork of this scale and complexity, and that they have been performing this type of work for a minimum of ten (10) years and that they have renovating at least three (3) fences of this size in the last ten (10) years.

6. Insurance

a. General - The Successful contractor shall before commencing performance of the Contract shall be responsible for providing and maintaining insurance coverage in force for the life of the Contract of the kind and in adequate amounts to secure all of the obligations under the Contract and with insurance companies licensed to write insurance in the Commonwealth of Massachusetts. All such insurance carried shall not be less than the kinds and amounts designated herein, and the Successful contractor agrees that the stipulation herein of the kinds and limits of coverage shall in no way limit the liability of the Successful contractor to any such kinds and amounts of insurance coverage. All

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policies issued shall indemnify and save harmless the City of Salem, its agents and employees from any and all claims for damages to persons or property as may arise out of the performance of this Contract.

Failure to provide and continue in force such insurance as aforesaid shall be deemed a material breach of this Contract, and may constitute sufficient grounds for immediate termination of the same. All insurance maintained as provided for in the above shall be taken out and maintained at the sole expense of the Successful contractor. Proof of such insurance shall be delivered to the Purchasing Agent within Five (5) days from the date of the Notice of Award.

No cancellations of such insurance, whether by the insurer or by the insured party shall be valid unless written notice thereof is given by the parties proposing cancellation to the other party and to the City of Salem at least fifteen- (15) days prior to the intended effective date thereof, which date shall be expressed in said notice, which shall be sent by registered mail, return receipt requested. These provisions shall apply to the legal representatives, trustee in bankruptcy, receiver, assignee, trustee, and the successor in interest of the Successful contractor.

- b. Successful contractor's Comprehensive General Public Liability and Property Damage Liability Insurance The Successful contractor shall carry Comprehensive General Liability Insurance providing for a limit of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of bodily injury to or death of one person, and subject to that limit for each person, a total limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries or death of two or more persons in any one accident; and Successful contractor's Comprehensive Property Damage Liability Insurance providing for a limit of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of injury to or destruction of property in any one accident, and subject to that limit per accident, a total (or aggregate) limit or not less than One Million Dollars (\$1,000,000.00) for all damages arising out of injury to or destruction of property during the policy period.
- c. <u>Workman's Compensation Insurance</u> The Successful contractor shall carry Workman's Compensation Insurance as prescribed under Massachusetts Law.
- d. <u>Automobile Liability Insurance</u> The Successful contractor shall carry comprehensive Automobile Liability Insurance covering all owned vehicles, hired vehicles or non-owned vehicles under the control of the Successful contractor while performing work under this Contract in the amount of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of bodily injuries to or death of one person and subject to that limit for each person, a total of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries to or death of two or more persons in any one accident; and Property Damage coverage in the amount of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of injury to or destruction of property.

e. All insurance coverage shall be placed with such company as may be acceptable to the City of Salem and shall constitute a material part of the Contract documents.

f. The <u>City of Salem</u> and <u>CBI Consulting Inc.</u> shall both be named as an additional insured on the General Contractor's liability insurance policy with a <u>waiver of subjugation</u>.

7. Prices

These shall encompass everything necessary to furnish and deliver all items, materials, supplies or services as specified. Prices quoted must include delivery FOB to the City of Salem. The City of Salem is exempt from sales tax.

8. Unit Price

In the event of a discrepancy between the Unit Price and the Extension, the Unit Price shall govern.

9. Explanation, Exceptions

Other information pertinent to the specifications may be made in the form of a letter included in the same envelope with the Bid Proposal.

10. Corrections

Bids that are submitted containing crossouts, whiteouts, or erasures <u>will be rejected</u>. All corrections or modifications to an original proposal are to be submitted in a separate envelope, properly marked, <u>prior to the bid opening only</u>. All documents will be incorporated into the contract documents.

11. Withdrawal of Quote

A quote may be withdrawn by written request prior to the schedule submission deadline.

12. Evaluation

Bids will be evaluated on price, quality, experience, and references.

13. Examination

By submitting a bid, the bidder warrants that he/she has thoroughly examined the specifications and is fully acquainted with all conditions and restrictions pertaining to the quote items. No claims for any extra work or extension of time will be allowed for failure to observe this requirement.

14. Payroll and Payment

In accordance with Massachusetts General Law c.149, s.27B, every Contractor and Subcontractor is required to submit a copy of their weekly payroll records to the awarding authority. The City reserves the right to hold payment of any monies outstanding under this contract until the Contractor of subcontractor complies with the requirements of this law.

The work is subject to MA Prevailing Wage Rates.

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15. Minority Procurement Goals

Under Massachusetts Executive Order 237, it is the policy of the Commonwealth to promote to the fullest participation of all citizens in resources provided by municipal government. Therefore, the City of Salem invites the participation of minority and women owned businesses in any and all parts of the contract.

16. Non-Discrimination In Employment

A contract for work under this proposal shall obligate the Contractors or Sub-Contractors not to discriminate in employment practices. Bidders must, if requested, submit compliance reports concerning their employment practices and policies in order to maintain their ability to receive an award of Contract. Bidders must, if requested, submit a list of all Sub-Contractors who will perform work on this Contract together with a "Certification of Bidder Regarding Equal Employment Opportunity" signed by the Contractor and/or his/her Sub-Contractors as requested.

17. Addenda and Interpretations

All questions by the prospective bidders as to any information contained within this bid must be submitted in writing at least five (5) business days prior to the bid deadline. Please send all questions via email to whaskell@salem.com. Copies of Addenda, if any, will be faxed or e-mailed to bidders of record without charge.

18. Rejection

THE CITY OF SALEM RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS OR WHICH IN THE OPINION OF THE AWARDING AUTHORITY SERVES THE BEST INTEREST OF THE CITY OF SALEM.

CHECKLIST
SUBMISSION REQUIREMENTS

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

This page is to be completed by the City of Salem and is also supplied to assist bidders in fulfilling the Bid Submission Requirements:

[] YES [] NO	COMPLETE BID COVER SHEET
[]YES[]NO	COMPLETE BID FORM
[]YES[]NO	CERTIFICATE OF NON-COLLUSION & ATTESTATION STATEMENT FORM
[]YES[]NO	STATEMENT OF CORPORATE AUTHORITY FORM
[]YES[]NO	OSHA CERTIFICATION FORM
	If all "YES" continue; if one "NO" may be cause for rejection.

[] YES [] NO 5% BID DEPOSIT

The bid deposit must be sealed in a separate envelope from the bid and attached to the bid containing envelope.

If all "YES" continue; if "NO" may be cause for rejection.

[] YES [] NO MEETS ALL MINIMUM EVALUATION CRITERIA

If "YES", continue; if "NO" then may be cause for rejection.

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BID COVER SHEET BID #R-70

Repairs of Salem Common Cast-Iron Fence

The City of Salem reserves the right to reject any or all Bids, to omit any item or items called for, or to accept the Bid deemed in the best interest of the City. One (1) original and two (2) copies of the Bid Proposal must be submitted **on or before 2:00 PM on Thursday, June 9, 2016** to:

Whitney C. Haskell
Purchasing Department
Salem City Hall
93 Washington Street, 3rd Floor
Salem, Massachusetts 01970

The envelope containing the bid and required information must be sealed and marked with the Bidder's Name, Title of BID, BID Number, and Date of Opening. The Bidder must sign all required signature pages in order for the proposal to be considered.

The City of Salem reserves the right to reject any and all bids, or to waive any informalities in the bidding process, if deemed in the City's best interest.

The Bidder acknowledges receipt of the following ADDENDA #
BUSINESS NAME
BUSINESS ADDRESS
CITY, STATE, & ZIP CODE
TELEPHONE & FAX NUMBERS
AUTHORIZED OFFICER SIGNATURE
AUTHORIZED OFFICER NAME (PRINT)
DATE

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FORM FOR GENERAL BID BID #R-70

Repairs of Salem Common Cast-Iron Fence

To The Awarding Authority:

1. The Undersigned proposes to furnish all labor and materials required for the Repairs of the Salem Common Cast-Iron Fence in accordance with the Contract Documents prepared by the Salem Purchasing Department for the Contract Price specified below, subject to additions and deductions according to the terms of the contract.

The undersigned hereby declares to have carefully examined the annexed form of Contract, Specifications, and Drawings therein referred to and also the sites upon which the project work is to be performed. Also, included in the Bid Form is a table requiring information on the Bidder's qualifications.

2.	The undersigned acknowledges receipt of addenda numbered	
3.	The Proposed Contract Price is: \$	
		dollars
	(insert words and numbers. In cases of conflict between words and number control)	
	Alternate Add 1, Fence Section #89 \$	
		dollars
	Alternate Add 2, Fence Section #90 \$	
		dollars
	Alternate Add 3, Fence Section #95 \$	
		dollars
	Alternate Add 4, Fence Section #96 \$	
		dollars

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Alternate Add 5, Fence Sect	ion #99 \$	
		dollars
Alternate Add 6, Fence Sect	ion #100 \$	
		dollars
Alternate Add 7, Fence Sect	ion #101 \$	
		dollars
Company Name:		
Company Address:		
	Fax Number:	
Signature:		
Print Name:		
Date:		

In conjunction with the words and figures submitted above for the requisite bid items, and as an integral part of said bid submission, the Undersigned certifies that:

The undersigned also hereby declares to be the only person interested in this Proposal; that it is made without any connection with any other person making any bid for the same work; that no person acting for, or employed by the Owner is directly or indirectly interested in this Proposal, or in any Contract which may be made under it, or in expected profits to arise therefrom; and it is made without directly or indirectly influencing or attempting to influence any other person or corporation to bid or to refrain from bidding or to influence the amount of the bid of any other person or corporation; and that this Proposal is made in good faith, without collusion or connection with any other person bidding for the same work; and that this Proposal is made with distinct reference and relation to the Bid Documents prepared for this case, and herein mentioned.

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If a notice of award and at least four (4) unsigned copies of the Contract (and all other applicable Contract Documents) is delivered to the Undersigned within ninety (90) days, not including Saturdays, Sundays, and legal holidays, after the date of receipt of such notification, he/she shall execute and return all copies of the Contract (and all other applicable Contract Documents) to the City. The premiums for all bonds required shall be paid by the Contractor and shall be included in the contract price.

Accompanying this Proposal is a bid deposit in the amount of 5% of the value of the Base Bid which shall become the property of the City of Salem (Owner) if, in case this Proposal shall be accepted by the said Owner, the undersigned shall fail to comply with the statutes as herein before specified, if it is a foreign corporation, or in any event fails to execute the Contract with, and give a bond to, said Owner, according to the requirements of the Notice to Contractor in the form annexed to said form of Contract, within the time hereinafter specified.

The Undersigned hereby agrees that the contract term shall not extend beyond January 21, 2017, unless an extension is provided, and to fully complete the work in accordance with the Contract as stipulated. The undersigned further agrees to pay the City, as liquidated damages, One Thousand Dollars (\$1000.00) per calendar day that the Contractor fails to complete the work in accordance with the Contract Documents.

Amounts shall be shown in both words and figures, where indicated. In case of discrepancy, the amount shown in words will govern. The above prices shall include all labor, materials, overhead, profit, insurance, and incidentals required to complete the Work.

The undersigned proposes to furnish all labor and materials in accordance with the Drawings and Specifications prepared by CBI CONSULTING, INC. for the Contract Price specified above, subject to additions and deductions according to the terms of the Specifications.

The Undersigned further certifies under the penalties 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.

Furthermore, pursuant to M.G.L., Chapter 62C, Section 49A, I certify under the penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid all state taxes required under the law.

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

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BID ITEMS

- A. Bidder Agrees to perform all the work including all incidental labor, materials and equipment necessary for the satisfactory completion of the work and in full compliance with the contents and intent of the specifications and/or plans of the work, for the following prices listed above.
- B. All prices, except item totals, shall be stated in both words and figures. In the event of a discrepancy between the price in words and figures, the words shall govern. In the event of a discrepancy between the total of the items and the total stated, the total stated shall govern.

Alteration may void the bid. All prices shall be typewritten or written by hand in ink.

Signed this	day, 2016.
Social Security Number or Federal Identification Number	Signature of Individual or Corporate Name Corporate Name
(seal)	By: Partner or Corporate Officer (if applicable)

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BID ITEMS BID #R-70

Repairs of Salem Common Cast-Iron Fence

The undersigned proposed to furnish all labor and materials required for the "Repairs of Salem Common Cast-Iron Fence" with the accompanying Drawings and Specifications, Notice to Bidders and other Contract Documents bound herewith as prepared by CBI Consulting, Inc., for the unit prices as follows:

	UNIT PRICE SCHEDULE				
#	DESCRIPTION OF WORK	UNIT	BASE BID QUANTITY	ADD PRICE	
1	Entire Fence Panel	EA	See Plans		
	(Excluding One Complete End Support Post)				
2	Entire End Support Post	EA	See Plans		
3	Top of End Support Post	EA	See Plans		
4	Single Picket (Either Style)	EA	See Plans		
5	Top Rail	EA	See Plans		
6	Bottom Rail	EA	See Plans		

Date:		
-	(Name of General Bidder)	
	Ву	
		(Print Name as Signed Above)
		(Title)
		(Business Address)

GENERAL BIDDER QUALIFICATIONS FORM

		-	
THE CITY MAY DERESPONSES TO THE	•	BIDDER WHO DOES	NOT SUPPLY SATISFACTORY
How many years has trepresentatives propose			ractor under the name in which its
the work and comply we City of Salem and Massa 10 years) related to the r	ith the terms and conc achusetts Historical C restoration/preservation	ditions of this Contract. Cor ommission that it has the ca on of large historic ironworl	o demonstrate its ability to perform ntractor must demonstrate to the spacity and experience (minimum of k fences and has successfully mmon Fence project in the last 10
EXPERIENCE: Bidd or cost, and reference to	-		ive location, date, type of work, size
Location	<u>Date</u>	Type of Work	<u>Size/Cost</u>
1.			

Reference:

2. Reference:____ 3. Reference: 4.

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Tel: (617) 268-8977

Fax: (617) 464-2971

Reference:

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Has the Contractor ever failed to complete any v	work awarded to it? If so, state when, where, and why:
State any additional related business experience:	
bidder is able to perform the work in accordance. Bidders are encouraged to supply complete infeattachments should be keyed by number to the bidders' efforts to supply succinct responses to	oregoing statements as necessary to satisfy the City that the e with the Contract Documents. formation in direct response to the preceding questions. Any e question to which they respond. The City will appreciate a avoid redundant material. Pre-printed brochures or other ely in favor of specifically targeted, straightforward, factually
detailed responses.	ry in favor of specifically targeted, straightforward, factually
Signed this day, 2016.	
Social Security Number or Federal Identification Number	Signature of Individual or Corporate Name
By:Partner or Corporate Officer	<u>—</u>
(seal if applicable)	

Tel: (617) 268-8977 Fax: (617) 464-2971

CBI Consulting Inc. Boston, Massachusetts

CERTIFICATE OF NON-COLLUSION (mandatory)

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 word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Date:	
	Company or Corporation
	Authorized Official's Signature
ATTE	STATION STATEMENT (mandatory)
	(aa.co.y)
of my knowledge and belief, am in co	9A, I certify under the penalties of perjury that I, to the best ompliance with all the laws of the Commonwealth relating to ontractors, and withholding and remitting child support.
State tax paid to	using Federal Identification Number or
Social Security Number	
Date:	
	Company of Corporation
	Authorized Official's Signature

STATEMENT OF CORPORATE AUTHORITY (mandatory)

At a duly authorized meeting of the Bo	ard of Directors of			
held on	at which time all voted that			
	be and 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 of obligation	in this Company's name on its behalf by such person			
	under seal of the Company, shall be valid and binding			
upon this Company.				
	A TRUE COPY,			
	ATTEST:			
	PLACE OF BUSINESS:			
	DATE OF THIS CONTRACT:			
I hereby certify that I am Clerk of	and that			
	is duly elected			
	ote has not been amended or rescinded and remains in			
full force and effect as of the date of th	is contract.			
(CODDODATE CEAT)	Clerk's Signature			
(CORPORATE SEAL)	Contract Number:			

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OSHA CERTIFICATION (mandatory)

City of Salem Historic Repairs of Salem Common Cast-Iron Fence

The undersigned agrees that if he is selected as the contractor, he will comply with the provisions of M.G.L. Chapter 30, Section 39M.

The undersigned certifies, under penalties of perjury, that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in 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.

Date:	_	Name of General Bidder
	Ву:	Signature
		Name of person signing bid and title
		Business Address
		City and State

OSHA CERTIFICATION 00 30 60 - 1

Telephone Number

GENERAL TERMS AND CONDITIONS

- 1. The right is reserved to reject any and all bids or parts of bids and to make an award, in part or in whole, or by item, as may be determined to be in the best interest of the City of Salem.
- 2. Price quoted must include delivery Freight on Board (FOB) Destination.
- **3.** An award to a bidder may be canceled if the bidder shall fail to prosecute the work with promptness and diligence.
- 4. The Contractor shall be responsible for all permits, fees and licenses necessary for the proper execution of the required work. The City of Salem will waive all permit fees under its jurisdiction. Bidders must not include those fees in their pricing.
- 5. The successful bidder shall repair, replace, or make good, without cost to the City, any defects or faults arising within one (1) year after the date of acceptance of articles furnished hereunder resulting from imperfect or defective work done or materials furnished by the seller.
- 6. The seller shall indemnify and save harmless the City and all persons acting for or on behalf of it from all suits and claims against them or any of them, arising from or occasioned by the use of any material, equipment, or apparatus, or any part thereof, which infringes or is alleged to infringe on any patent rights. In case such material, equipment, or apparatus, or any part thereof, in any such suit is held to constitute an infringement, the seller within a reasonable time, will, at its expense and as the City may elect, replace such material, equipment, or apparatus, or remove the material, equipment, or apparatus and refund the suns paid thereof.
- 7. The successful bidder shall comply with all applicable Federal, State, or City of Salem statutes, rules, regulations and ordinances
- 8. All work shall be performed in accordance with OSHA standards and it shall be the contractor's responsibility to ensure that all required safety equipment is present and being utilized properly at the work site. All equipment utilized under this contract shall be tested in accordance with OSHA standards. The contractor shall notify the City in writing of items and procedures not in compliance with OSHA standards and shall immediately make correction thereof to comply.
- Purchases made by the City are EXEMPT from Massachusetts sales tax and Federal excise
 taxes and bid prices must exclude any such taxes. Tax exemption certificates will be
 furnished.
- **10.** The successful bidder is required to furnish Performance and Payment bonds from a Company, in the contract amount Licensed by the Division of Insurance of the Commonwealth of Massachusetts. Bidder must pay all costs. The Performance Bond shall be in the sum of one hundred percent (100%) of the Contract Price, the Payment

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Bond shall be in the sum of one hundred percent (100%) of the Contract Price. The bonds shall be provided by the Contractor to the City within ten (10) days of the contract award.

- 11. Bids must be accompanied by a certified check, issued by a responsible bank or trust company, or a bid bond duly executed by the bidder as principal and having as surety hereon a surety company approved by the City, all in the amount of 5% of the bid, payable to the "City of Salem" and must be filed with the original bid. The bid surety will be returned to the successful bidder within seven (7) days after the execution of the awarded contract and approval by the City of the Performance Bond. In the case of a default, the bid surety shall be forfeited to the City.
- **12.** Verbal orders are not binding on the City and deliveries made or work performed without formal order or written contract are at the risk of the seller or Contractor and may result in an unenforceable claim.
- 13. EQUALITY An item equal to that named or described in the specifications may be furnished by the vendor and the naming of any commercial name, trademark, or other identification shall not be construed to exclude any item or manufacturer not mentioned by name or as limiting competition, but shall establish a standard of equality only. An item shall be considered equal in quality, durability, appearance, strength, and design when: (a) it will perform at least equally the function imposed by the general design for the purpose being contracted for or the material being purchased; and (b) it conforms in a substantial way, even with deviations, to the detailed requirements for the item in the specifications. The name and identification of all materials other than the one named, shall be submitted to the City in writing for approval, prior purchase, use, or fabrication of such items. Subject to the provisions of M.G.L., Chapter 30, Section 39J, or other applicable statute, approval shall be in writing to be effective, and the decision of the City shall be final. The City may require tests of all materials so submitted to establish quality standards at the vendor's expense. All directions, specifications, and advice by the manufacturer for the proper installation, handling, storage, adjustment, or operation of their equipment shall be complied with and the responsibility for the proper performance shall continue to rest with the vendor.
- **14. MINORITY BUSINESS PARTICIPATION -** The City of Salem invites all qualified women and minority business firms to respond to bid invitations.
- **15. RIGHT TO KNOW LEGISLATION, M.G.L.**, Chapter Ill F and 454 CMR 21.06. All vendors furnish substances or mixtures that may be classified as toxic or hazardous, pursuant to M.G.L. Chapter Ill F, are cautioned to obtain and read the Law and the Regulations referred to above. Copies may be obtained from the State House Bookstore, State House, Room 117, Boston, Massachusetts 02133 for a fee.

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-E CBI Consulting Inc. Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

- **16. NON-COLLUSION AFFIDAVIT** any person submitting a bid for the sale, lease, or provision of equipment, supplies or materials, or services to any government unit shall certify that the bid is made without collusion or fraud with any other person. Failure to submit such statement will result in the bid being disqualified
- 17. PAYMENT OF TAXES TO THE COMMONWEALTH OF MASSACHUSETTS PURSUANT TO M.G.L. Chapter 62C, Section 49A no contract may be entered into with any party that has not filed and paid all taxes required under Law.
- 18. WEEKLY PAYROLL RECORDS REPORT In accordance with Massachusetts General Law, Chapter 149, Section 27B, a true and accurate record must be kept of all persons employed on a public works construction project for which the Prevailing Wage Rates have been provided. Every Contractor and Sub-Contractor must submit a copy of their weekly payroll records to the Awarding Authority. This is required to be done on a weekly basis. Failure to submit payrolls may result in delayed payment of monies outstanding, until contractor or subcontractor is in compliance with this law. Once collected, the Awarding Authority is required to preserve those records for a period of three years.
- 19. WARRANTIES/GUARANTEES All prospective bidders on items that carry warranties and/or guarantees must include with their sealed proposal a copy of the warranties and/or guarantees of major components as well as a copy of the warranties and/or guarantees on the items being bid, if applicable. The bidder must make arrangements to assure the owner that the warranties or guarantees can be assigned to the owner. The owner's intent is to use the extent of the coverage in the warranties and/or guarantees as part of the awarding procedure.
- **20. AIA GENERAL CONDITIONS** The attached AIA General Conditions of the Contract shall also apply. Please note that in any conflict between the General Terms and Conditions, above, and the AIA document, the more stringent requirement shall apply at the sole discretion of the Architect.

END OF SECTION



THE COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT DEPARTMENT OF LABOR STANDARDS

Prevailing Wage Rates

As determined by the Director under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H RONALD L. WALKER, II Secretary WILLIAM D MCKINNEY

Awarding Authority:

City of Salem

Contract Number:

11195-E / R-70

City/Town: SALEM

Description of Work:

Phase III Salem Common Fence - Restoration of the historic cast iron fence

Job Location: Washington Square

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule from the Department of Labor Standards ("DLS") if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 \u2208 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
- All apprentices working on the project are required to be registered with the Massachusetts Department of Labor Standards, Division of Apprentice Standards (DLS/DAS). Apprentice must keep his/her apprentice identification card on his/her person during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. Any apprentice not registered with DLS/DAS regardless of whether or not they are registered with any other federal, state, local, or private agency must be paid the journeyworker's rate for the trade.
- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule. Awarding authorities are required to request these updates no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F "rental of equipment" contracts.
- Every contractor or subcontractor which performs construction work on the project is required to submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. A sample of a payroll reporting form may be obtained at http://www.mass.gov/dols/pw.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
- Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and

Issue Date: 05/17/2016 Wage Request Number: 20160517-042

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2015	\$31.65	\$10.41	\$10.08	\$0.00	\$52.14
TEAMSTERS JOINT COUNCIL NO. 10 ZOINE B	06/01/2016	\$32.15	\$10.41	\$10.08	\$0.00	\$52.64
	08/01/2016	\$32.15	\$10.91	\$10.08	\$0.00	\$53.14
	12/01/2016	\$32.15	\$10.91	\$10.89	\$0.00	\$53.95
(3 AXLE) DRIVER - EQUIPMENT	12/01/2015	\$31.72	\$10.41	\$10.08	\$0.00	\$52.21
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	06/01/2016	\$32.22	\$10.41	\$10.08	\$0.00	\$52.71
	08/01/2016	\$32.22	\$10.91	\$10.08	\$0.00	\$53.21
	12/01/2016	\$32.22	\$10.91	\$10.89	\$0.00	\$54.02
(4 & 5 AXLE) DRIVER - EQUIPMENT	12/01/2015	\$31.84	\$10.41	\$10.08	\$0.00	\$52.33
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	06/01/2016	\$32.34	\$10.41	\$10.08	\$0.00	\$52.83
	08/01/2016	\$32.34	\$10.91	\$10.08	\$0.00	\$53.33
	12/01/2016	\$32.34	\$10.91	\$10.89	\$0.00	\$54.14
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$88.29	\$9.80	\$19.23	\$0.00	\$117.32
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR	12/01/2015	\$31.90	\$7.45	\$12.65	\$0.00	\$52.00
LABORERS - ZONE 2	06/01/2016	\$32.40	\$7.45	\$12.65	\$0.00	\$52.50
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$33.15	\$7.45	\$12.65	\$0.00	\$53.25
ASBESTOS REMOVER - PIPE / MECH. EQUIPT. HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	12/01/2015	\$34.38	\$10.40	\$5.95	\$0.00	\$50.73
ASPHALT RAKER	12/01/2015	\$31.40	\$7.45	\$12.65	\$0.00	\$51.50
LABORERS - ZONE 2	06/01/2016	\$31.90	\$7.45	\$12.65	\$0.00	\$52.00
	12/01/2016	\$32.65	\$7.45	\$12.65	\$0.00	\$52.75
For apprentice rates see "Apprentice- LABORER"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
	12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
	06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
	12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
	12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
	06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
	12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER LABORERS - ZONE 2	12/01/2015	\$31.40	\$7.45	\$12.65	\$0.00	\$51.50
LABORERS - ZOIVE 2	06/01/2016	\$31.90	\$7.45	\$12.65	\$0.00	\$52.00
	12/01/2016	\$32.65	\$7.45	\$12.65	\$0.00	\$52.75
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER LABORERS - ZONE 2	12/01/2015	\$31.90	\$7.45	\$12.65	\$0.00	\$52.00
E-100111110 - 201111 2	06/01/2016	\$32.40	\$7.45	\$12.65	\$0.00	\$52.50
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$33.15	\$7.45	\$12.65	\$0.00	\$53.25
The state of the s						

 Issue Date:
 05/17/2016
 Wage Request Number:
 20160517-042
 Page 2 of 33

Step	percent	01/01/2016 Apprei	ntice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	65		\$27.05	\$6.97	\$10.54	\$0.00	\$44.56	
2	65		\$27.05	\$6.97	\$10.54	\$0.00	\$44.56	
3	70		\$29.13	\$6.97	\$11.35	\$0.00	\$47.45	
4	75		\$31.22	\$6.97	\$12.16	\$0.00	\$50.35	
5	80		\$33.30	\$6.97	\$12.97	\$0.00	\$53.24	
6	85		\$35.38	\$6.97	\$13.78	\$0.00	\$56.13	
7	90		\$37.46	\$6.97	\$14.59	\$0.00	\$59.02	
8	95		\$39.54	\$6.97	\$15.40	\$0.00	\$61.91	
Effec Step	tive Date -	01/01/2017 Apprei	ntice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	65		\$27.90	\$6.97	\$10.54	\$0.00	\$45.41	
2	65		\$27.90	\$6.97	\$10.54	\$0.00	\$45.41	
3	70		\$30.04	\$6.97	\$11.35	\$0.00	\$48.36	
4	75		\$32.19	\$6.97	\$12.16	\$0.00	\$51.32	
5	80		\$34.34	\$6.97	\$12.97	\$0.00	\$54.28	
6	85		\$36.48	\$6.97	\$13.78	\$0.00	\$57.23	
7	90		\$38.63	\$6.97	\$14.59	\$0.00	\$60.19	
8	95		\$40.77	\$6.97	\$15.40	\$0.00	\$63.14	
Notes	::							
Appr	entice to Jo	urneyworker Ratio:1:5						
CTONE /A DTI	FICIAL MA	ASONRY (INCL. MASONRY	02/01/201	6 \$49.86	\$10.18	\$19.14	\$0.00	\$79.1
RPROOFING)								

Effective Date

01/01/2016

01/01/2017

Base Wage

\$41.62

\$42.92

Health

\$6.97

\$6.97

Pension

\$16.21

\$16.21

Classification

BOILER MAKER

BOILERMAKERS LOCAL 29

Supplemental

\$0.00

\$0.00

Unemployment

Total Rate

\$64.80

\$66.10

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 3 of 33**

20160517-042 Page 4 of 33

12/01/2015

06/01/2016

12/01/2016

\$31.40

\$31.90

\$32.65

\$7.45

\$7.45

\$7.45

\$12.65

\$12.65

\$12.65

\$0.00

\$0.00

\$0.00

\$51.50

\$52.00

\$52.75

CARBIDE CORE DRILL OPERATOR

For apprentice rates see "Apprentice- LABORER"

LABORERS - ZONE 2

			03/01/2017	7 \$39.05	\$9.80	\$16.82	\$0.00	\$65
			09/01/201			\$16.82	\$0.00	\$66
			03/01/2018			\$16.82	\$0.00	\$67
			09/01/2018			\$16.82	\$0.00	\$68
			03/01/2019			\$16.82	\$0.00	\$69
Annre	entice - C	ARPENTER - Zone 2 Eastern						
	ive Date -	03/01/2016				Supplemental		
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	50		\$18.55	\$9.80	\$1.63	\$0.00	\$29.98	
2	60		\$22.26	\$9.80	\$1.63	\$0.00	\$33.69	
3	70		\$25.97	\$9.80	\$11.93	\$0.00	\$47.70	
4	75		\$27.83	\$9.80	\$11.93	\$0.00	\$49.56	
5	80		\$29.68	\$9.80	\$13.56	\$0.00	\$53.04	
6	80		\$29.68	\$9.80	\$13.56	\$0.00	\$53.04	
7	90		\$33.39	\$9.80	\$15.19	\$0.00	\$58.38	
8	90		\$33.39	\$9.80	\$15.19	\$0.00	\$58.38	
	ive Date -	09/01/2016				Supplemental		
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	50		\$19.04	\$9.80	\$1.63	\$0.00	\$30.47	
2	60		\$22.85	\$9.80	\$1.63	\$0.00	\$34.28	
3	70		\$26.66	\$9.80	\$11.93	\$0.00	\$48.39	
4	75		\$28.56	\$9.80	\$11.93	\$0.00	\$50.29	
5	80		\$30.46	\$9.80	\$13.56	\$0.00	\$53.82	
6	80		\$30.46	\$9.80	\$13.56	\$0.00	\$53.82	
7	90		\$34.27	\$9.80	\$15.19	\$0.00	\$59.26	
	00		\$34.27	\$9.80	\$15.19	\$0.00	\$59.26	
8	90							
8								

Effective Date

03/01/2016

09/01/2016

Base Wage

\$37.10

\$38.08

Health

\$9.80

\$9.80

Classification

CARPENTER

CARPENTERS -ZONE 2 (Eastern Massachusetts)

Supplemental

\$0.00

\$0.00

Unemployment

Pension

\$16.82

\$16.82

Total Rate

\$63.72

\$64.70

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 5 of 33**

Pension

	PP							
	Effect Step	ive Date - 01/01/2016 percent	Apprentice Base Wage	Haalth	Pension	Supplemental Unemployment	Total Rate	
	1 step	*						
		50	\$23.22	\$10.90	\$12.21	\$0.00	\$46.33	
	2	60	\$27.86	\$10.90	\$13.71	\$1.30	\$53.77	
	3	65	\$30.19	\$10.90	\$14.71	\$1.30	\$57.10	
	4	70	\$32.51	\$10.90	\$15.71	\$1.30	\$60.42	
	5	75	\$34.83	\$10.90	\$16.71	\$1.30	\$63.74	
	6	80	\$37.15	\$10.90	\$17.71	\$1.30	\$67.06	
	7	90	\$41.80	\$10.90	\$18.71	\$1.30	\$72.71	
	Notes:	Steps 3,4 are 500 hrs. All other steps	are 1,000 hrs.					
	Appre	entice to Journeyworker Ratio:1:3						
CHAIN SAW OPERATOR ABORERS - ZONE 2			12/01/2015	\$31.40	\$7.45	\$12.65	\$0.00	\$51.50
ABOREKS - ZON	E 2		06/01/2016	\$31.90	\$7.45	\$12.65	\$0.00	\$52.00
			12/01/2016	\$32.65	\$7.45	\$12.65	\$0.00	\$52.75
		"Apprentice- LABORER"						
CLAM SHELL OPERATING ENG		RRY BUCKETS/HEADING MACHIN OCAL 4	12/01/2013			\$14.90	\$0.00	\$69.63
a Biurrin o Bivo	,221.02	00.12 /	06/01/2016	\$45.48	\$10.00	\$14.90	\$0.00	\$70.38
			12/01/2016	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
			06/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentic	e rates see	"Apprentice- OPERATING ENGINEERS"	12/01/2017	\$48.73	\$10.00	\$14.90	\$0.00	\$73.63
COMPRESSO			12/01/2015	5 \$30.13	\$10.00	\$14.90	\$0.00	\$55.03
PERATING ENG	GINEERS L	OCAL 4	06/01/2016			\$14.90	\$0.00	\$55.55
			12/01/2016			\$14.90	\$0.00	\$56.42
			06/01/2017			\$14.90	\$0.00	\$57.11
			12/01/2017			\$14.90	\$0.00	\$57.80
For apprentic	e rates see	"Apprentice- OPERATING ENGINEERS"						
DELEADER (<i>*</i>	01/01/2016	5 \$49.51	\$7.85	\$16.10	\$0.00	\$73.46
	L 35 - ZON	E 2	07/01/2014	\$50.46	¢7.05	\$16.10	\$0.00	\$74.41
PAINTERS LOCAL			07/01/2016	330.40	\$7.85	\$10.10	\$0.00	\$/4.41

Issue Date: 05/17/2016 Wage Request Number: 20160517-042 Page 6 of 33

	Effecti Step	ive Date - 01/01/2016 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Ra	te
	1	50	\$24.76	\$7.85	\$0.00	\$0.00	\$32.6	51
	2	55	\$27.23	\$7.85	\$3.66	\$0.00	\$38.7	' 4
	3	60	\$29.71	\$7.85	\$3.99	\$0.00	\$41.5	55
	4	65	\$32.18	\$7.85	\$4.32	\$0.00	\$44.3	15
	5	70	\$34.66	\$7.85	\$14.11	\$0.00	\$56.6	52
	6	75	\$37.13	\$7.85	\$14.44	\$0.00	\$59.4	12
	7	80	\$39.61	\$7.85	\$14.77	\$0.00	\$62.2	23
	8	90	\$44.56	\$7.85	\$15.44	\$0.00	\$67.8	35
	Effecti	ive Date - 07/01/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Ra	te
	1	50	\$25.23	\$7.85	\$0.00	\$0.00	\$33.0	8
	2	55	\$27.75	\$7.85	\$3.66	\$0.00	\$39.2	26
	3	60	\$30.28	\$7.85	\$3.99	\$0.00	\$42.1	2
	4	65	\$32.80	\$7.85	\$4.32	\$0.00	\$44.9	7
	5	70	\$35.32	\$7.85	\$14.11	\$0.00	\$57.2	28
	6	75	\$37.85	\$7.85	\$14.44	\$0.00	\$60.1	4
	7	80	\$40.37	\$7.85	\$14.77	\$0.00	\$62.9	19
	8	90	\$45.41	\$7.85	\$15.44	\$0.00	\$68.7	70
	Notes:	Steps are 750 hrs.						
	Appre	ntice to Journeyworker Ratio:1:1						
DEMO: ADZEI ABORERS - ZONE			12/01/2015	\$35.50	\$7.45	\$13.55	\$0.00	\$56.50
		'Apprentice- LABORER"						
DEMO: BACK ABORERS - ZONE		OADER/HAMMER OPERATOR	12/01/2015	\$36.50	\$7.45	\$13.55	\$0.00	\$57.50
		'Apprentice- LABORER"						
DEMO: BURN ABORERS - ZONE	-		12/01/2015	\$36.25	\$7.45	\$13.55	\$0.00	\$57.25
		'Apprentice- LABORER"						
DEMO: CONC Aborers - zone		CUTTER/SAWYER	12/01/2015	\$36.50	\$7.45	\$13.55	\$0.00	\$57.50
For apprentice	rates see '	'Apprentice- LABORER"						
DEMO: JACKI ABORERS - ZONE		ER OPERATOR	12/01/2015	\$36.25	\$7.45	\$13.55	\$0.00	\$57.25
For apprentice	rates see '	'Apprentice- LABORER"						
DEMO: WREC ABORERS - ZONE		ABORER	12/01/2015	\$35.50	\$7.45	\$13.55	\$0.00	\$56.50
For apprentice	rates see '	'Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DIRECTIONAL DRILL MACHINE OPERATOR	12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
	12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
	06/01/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
	12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$58.86	\$9.80	\$19.23	\$0.00	\$87.89
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$42.04	\$9.80	\$19.23	\$0.00	\$71.07
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$63.06	\$9.80	\$19.23	\$0.00	\$92.09
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$88.23	\$9.80	\$19.23	\$0.00	\$117.26
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) ELECTRICIANS LOCAL 103	03/01/2016	\$46.17	\$13.00	\$16.39	\$0.00	\$75.56
For apprentice rates see "Apprentice- ELECTRICIAN"						
ELECTRICIAN ELECTRICIANS LOCAL 103	03/01/2016	\$46.17	\$13.00	\$16.39	\$0.00	\$75.56

Step	p percent		Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total	Rate
1	40		\$18.47	\$13.00	\$0.55	\$0.00	\$3	32.02
2	40		\$18.47	\$13.00	\$0.55	\$0.00	\$3	32.02
3	45		\$20.78	\$13.00	\$12.34	\$0.00	\$4	16.12
4	45		\$20.78	\$13.00	\$12.34	\$0.00	\$4	16.12
5	50		\$23.09	\$13.00	\$12.71	\$0.00	\$4	18.80
6	55		\$25.39	\$13.00	\$13.07	\$0.00	\$5	51.46
7	60		\$27.70	\$13.00	\$13.44	\$0.00	\$5	54.14
8	65		\$30.01	\$13.00	\$13.81	\$0.00	\$5	56.82
9	70		\$32.32	\$13.00	\$14.18	\$0.00	\$5	59.50
10	75		\$34.63	\$13.00	\$14.55	\$0.00	\$6	52.18
 Not								\neg
İ	App Prio	r 1/1/03; 30/35/40/45/50/55/6	5/70/75/80					
App	prentice to Jo	ourneyworker Ratio:2:3***						<u> </u>
VATOR CONS			01/01/2016	\$54.53	\$14.43	\$14.96	\$0.00	\$83.92
YATOR CONSTRUCT	TORS LOCAL 4		01/01/2017	\$55.86	\$15.28	\$15.71	\$0.00	\$86.85

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 8 of 33**

Apprentice - ELEVATOR CONSTRUCTOR - Local 4

Total Rate

	• •	ive Date -	01/01/2016	T - Locui 4			Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	:
	1	50		\$27.27	\$14.43	\$0.00	\$0.00	\$41.70	
	2	55		\$29.99	\$14.43	\$14.96	\$0.00	\$59.38	
	3	65		\$35.44	\$14.43	\$14.96	\$0.00	\$64.83	
	4	70		\$38.17	\$14.43	\$14.96	\$0.00	\$67.56	
	5	80		\$43.62	\$14.43	\$14.96	\$0.00	\$73.01	
	Effecti Step	ive Date -	01/01/2017	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	:
	1	50		\$27.93	\$15.28	\$0.00	\$0.00	\$43.21	
	2	55		\$30.72	\$15.28	\$15.71	\$0.00	\$61.71	
	3	65		\$36.31	\$15.28	\$15.71	\$0.00	\$67.30	
	4	70		\$39.10	\$15.28	\$15.71	\$0.00	\$70.09	
	5	80		\$44.69	\$15.28	\$15.71	\$0.00	\$75.68	
	Notes:		are 6 mos.; Steps 3-5 are 1						
			urneyworker Ratio:1:1						
	ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 4		01/01/2010	6 \$38.17	\$14.43	\$14.96	\$0.00	\$67.56	
			ELEVATOR CONSTRUCTOR"	01/01/2017	7 \$39.10	\$15.28	\$15.71	\$0.00	\$70.09
FENCE & GUA				12/01/2014	5 021.40	ф7.45	¢12.65	\$0.00	
LABORERS - ZONE		IIL LICLE		12/01/201:			\$12.65 \$12.65	\$0.00 \$0.00	\$51.50
				06/01/2010 12/01/2010			\$12.65	\$0.00	\$52.00 \$52.75
For apprentice	rates see '	"Apprentice- I	LABORER"	12/01/2010	0 \$32.03	\$7.43	\$12.03	\$0.00	\$32.73
			OG,SITE,HVY/HWY	05/01/2010	6 \$41.03	\$10.00	\$14.90	\$0.00	\$65.93
OPERATING ENGL	NEERS LO	OCAL 4		11/01/2010	6 \$41.62	\$10.00	\$14.90	\$0.00	\$66.52
				05/01/2017	7 \$42.50	\$10.00	\$14.90	\$0.00	\$67.40
				11/01/2017	7 \$43.23	\$10.00	\$14.90	\$0.00	\$68.13
				05/01/2018	8 \$43.94	\$10.00	\$14.90	\$0.00	\$68.84
		••	OPERATING ENGINEERS"						
FIELD ENG.PA OPERATING ENGL			OG,SITE,HVY/HWY	05/01/2010	6 \$42.47	\$10.00	\$14.90	\$0.00	\$67.37
				11/01/2010	6 \$43.07	\$10.00	\$14.90	\$0.00	\$67.97
				05/01/2017	7 \$43.96	\$10.00	\$14.90	\$0.00	\$68.86
				11/01/2017	7 \$44.69	\$10.00	\$14.90	\$0.00	\$69.59
For apprentice	rates see '	"Apprentice- (OPERATING ENGINEERS"	05/01/2018	8 \$45.41	\$10.00	\$14.90	\$0.00	\$70.31
FIELD ENG.RO	DD PER	SON-BLD	G,SITE,HVY/HWY	05/01/2010	6 \$21.88	\$10.00	\$14.90	\$0.00	\$46.78
OPERATING ENGL	NEERS LO	OCAL 4		11/01/2016			\$14.90	\$0.00	\$47.13
				05/01/2017	7 \$22.76	\$10.00	\$14.90	\$0.00	\$47.66
				11/01/2017	7 \$23.18	\$10.00	\$14.90	\$0.00	\$48.08
				05/01/2018	8 \$23.61	\$10.00	\$14.90	\$0.00	\$48.51
For apprentice	rates see '	'Apprentice- (OPERATING ENGINEERS"						
		1.6			17.040				D 0 633

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 103	03/01/2016	\$46.17	\$13.00	\$16.39	\$0.00	\$75.56
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS	03/01/2016	\$34.63	\$13.00	\$14.55	\$0.00	\$62.18
LOCAL 103 For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER)	12/01/2015	\$36.34	\$10.00	\$14.90	\$0.00	\$61.24
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$36.96	\$10.00	\$14.90	\$0.00	\$61.86
	12/01/2016	\$38.00	\$10.00	\$14.90	\$0.00	\$62.90
	06/01/2017	\$38.84	\$10.00	\$14.90	\$0.00	\$63.74
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2017	\$39.67	\$10.00	\$14.90	\$0.00	\$64.57
FLAGGER & SIGNALER	12/01/2015	\$20.50	\$7.45	\$12.65	\$0.00	\$40.60
LABORERS - ZONE 2	06/01/2016	\$20.50	\$7.45	\$12.65	\$0.00	\$40.60
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$20.50	\$7.45	\$12.65	\$0.00	\$40.60
FLOORCOVERER FLOORCOVERERS LOCAL 2168 ZONE I	03/01/2016	\$42.13	\$9.80	\$17.62	\$0.00	\$69.55

	tive Date - 03/01/2016					Supplemental		
Step	percent	Apprentice Base	e Wage	Health	Pension	Unemployment	Total Rat	te
1	50	\$21.0	7	\$9.80	\$1.79	\$0.00	\$32.6	6
2	55	\$23.1	7	\$9.80	\$1.79	\$0.00	\$34.7	6
3	60	\$25.2	8	\$9.80	\$12.25	\$0.00	\$47.3	3
4	65	\$27.3	8	\$9.80	\$12.25	\$0.00	\$49.4	3
5	70	\$29.4	.9	\$9.80	\$14.04	\$0.00	\$53.3	3
6	75	\$31.6	0	\$9.80	\$14.04	\$0.00	\$55.4	4
7	80	\$33.7	0	\$9.80	\$15.83	\$0.00	\$59.3	3
8	85	\$35.8	1	\$9.80	\$15.83	\$0.00	\$61.4	4
Notes	<u> </u>							
j	Steps are 750 hrs.							
Appr	entice to Journeyworker	Ratio:1:1					'	
FORK LIFT/CHERRY		12/	/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
OPERATING ENGINEERS I	OCAL 4	06/	/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
		12/	/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
		06/	/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
For apprentice rates see	"Apprentice- OPERATING EN		/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
GENERATOR/LIGHT	TING PLANT/HEATERS	12/	/01/2015	\$30.13	\$10.00	\$14.90	\$0.00	\$55.03
OPERATING ENGINEERS I	OCAL 4		/01/2016	\$30.65	\$10.00	\$14.90	\$0.00	\$55.55
			01/2016	\$31.52	\$10.00	\$14.90	\$0.00	\$56.42
			01/2017	\$32.21	\$10.00	\$14.90	\$0.00	\$57.11
			01/2017	\$32.90	\$10.00	\$14.90	\$0.00	\$57.80
For apprentice rates see	"Apprentice- OPERATING EN		01/2017	Ψ52.90	Ψ10.00	4	+ 0 0	<i>\$27.00</i>
Issue Date: 05/17/20)16	Wage Request Number:	2016051	7-042				Page 10 of 33

LAZIER (GLASS PLANK/AIR BARRII	ER/INTERIOR 01/01/2	016 \$39.01	\$7.85	\$16.10	\$0.00	\$62.96
YSTEMS) LAZIERS LOCAL 35 (ZONE 2)	07/01/2	016 \$39.96	\$7.85	\$16.10	\$0.00	\$63.91
, ,	01/01/2	017 \$40.91	\$7.85	\$16.10	\$0.00	\$64.86
Apprentice - GLAZIER						
Effective Date - 01/01/				Supplemental		
Step percent	Apprentice Base Wa	ge Health	Pension	Unemployment	Total Rate	
1 50	\$19.51	\$7.85	\$0.00	\$0.00	\$27.36	
2 55	\$21.46	\$7.85	\$3.66	\$0.00	\$32.97	
3 60	\$23.41	\$7.85	\$3.99	\$0.00	\$35.25	
4 65	\$25.36	\$7.85	\$4.32	\$0.00	\$37.53	
5 70	\$27.31	\$7.85	\$14.11	\$0.00	\$49.27	
6 75	\$29.26	\$7.85	\$14.44	\$0.00	\$51.55	
7 80	\$31.21	\$7.85	\$14.77	\$0.00	\$53.83	
8 90	\$35.11	\$7.85	\$15.44	\$0.00	\$58.40	
Effective Date - 07/01/	2016			Supplemental		
Step percent	Apprentice Base Wa	ge Health	Pension	Unemployment	Total Rate	
1 50	\$19.98	\$7.85	\$0.00	\$0.00	\$27.83	
2 55	\$21.98	\$7.85	\$3.66	\$0.00	\$33.49	
3 60	\$23.98	\$7.85	\$3.99	\$0.00	\$35.82	
4 65	\$25.97	\$7.85	\$4.32	\$0.00	\$38.14	
5 70	\$27.97	\$7.85	\$14.11	\$0.00	\$49.93	
6 75	\$29.97	\$7.85	\$14.44	\$0.00	\$52.26	
7 80	\$31.97	\$7.85	\$14.77	\$0.00	\$54.59	
8 90	\$35.96	\$7.85	\$15.44	\$0.00	\$59.25	
Notes:						
Steps are 750 hrs.					i	
Apprentice to Journeyw						
DISTING ENGINEER/CRANES/GRAD Erating engineers local 4	DALLS 12/01/2	015 \$43.73	\$10.00	\$14.90	\$0.00	\$68.63
EMITING ENGINEERS LOCAL 4	06/01/2	016 \$44.48	\$10.00	\$14.90	\$0.00	\$69.38
	12/01/2	016 \$45.73	\$10.00	\$14.90	\$0.00	\$70.63
	06/01/2	017 \$46.73	\$10.00	\$14.90	\$0.00	\$71.63
	12/01/2	017 \$47.73	\$10.00	\$14.90	\$0.00	\$72.63

Effective Date

01/01/2016

Base Wage

\$39.01

Health

\$7.85

Classification

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR

Supplemental

\$0.00

Unemployment

Pension

\$16.10

Total Rate

\$62.96

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 11 of 33**

Apprentice - OPERATING ENGINEERS - Local 4

	Effecti	ve Date -	12/01/2015				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	55		\$24.05	\$10.00	\$0.00	\$0.00	\$34.05	
	2	60		\$26.24	\$10.00	\$14.90	\$0.00	\$51.14	
	3	65		\$28.42	\$10.00	\$14.90	\$0.00	\$53.32	
	4	70		\$30.61	\$10.00	\$14.90	\$0.00	\$55.51	
	5	75		\$32.80	\$10.00	\$14.90	\$0.00	\$57.70	
	6	80		\$34.98	\$10.00	\$14.90	\$0.00	\$59.88	
	7	85		\$37.17	\$10.00	\$14.90	\$0.00	\$62.07	
	8	90		\$39.36	\$10.00	\$14.90	\$0.00	\$64.26	
		ve Date -	06/01/2016				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	55		\$24.46	\$10.00	\$0.00	\$0.00	\$34.46	
	2	60		\$26.69	\$10.00	\$14.90	\$0.00	\$51.59	
	3	65		\$28.91	\$10.00	\$14.90	\$0.00	\$53.81	
	4	70		\$31.14	\$10.00	\$14.90	\$0.00	\$56.04	
	5	75		\$33.36	\$10.00	\$14.90	\$0.00	\$58.26	
	6	80		\$35.58	\$10.00	\$14.90	\$0.00	\$60.48	
	7	85		\$37.81	\$10.00	\$14.90	\$0.00	\$62.71	
	8	90		\$40.03	\$10.00	\$14.90	\$0.00	\$64.93	
İ	Notes:								
		ntice to Jo	urneyworker Ratio:1:6						
HVAC (DUCTW Sheetmetal wor		CAL 17 A		02/01/2016	5 \$43.31	\$10.70	\$21.95	\$2.28	\$78.24
SHEETMETAL WOR	KERS LC	CAL II - A		08/01/2016	5 \$44.46	\$10.70	\$21.95	\$2.28	\$79.39
				02/01/2017	7 \$45.56	\$10.70	\$21.95	\$2.28	\$80.49
				08/01/2017	7 \$46.66	\$10.70	\$21.95	\$2.28	\$81.59
For apprentice r	ates see ".	Apprentice- S	SHEET METAL WORKER"	02/01/2018	8 \$47.81	\$10.70	\$21.95	\$2.28	\$82.74
HVAC (ELECTI		CONTRO	LS)	03/01/2016	6 \$46.17	\$13.00	\$16.39	\$0.00	\$75.56
For apprentice r	ates see "	Apprentice- I	ELECTRICIAN"						
HVAC (TESTIN			CING - AIR)	02/01/2016	6 \$43.31	\$10.70	\$21.95	\$2.28	\$78.24
SHEETMETAL WOR	KERS LC	CAL 17 - A		08/01/2016	6 \$44.46	\$10.70	\$21.95	\$2.28	\$79.39
				02/01/2017	7 \$45.56	\$10.70	\$21.95	\$2.28	\$80.49
				08/01/2017	7 \$46.66	\$10.70	\$21.95	\$2.28	\$81.59
				02/01/2018	8 \$47.81	\$10.70	\$21.95	\$2.28	\$82.74
			SHEET METAL WORKER"						
HVAC (TESTIN PIPEFITTERS LOCA			CING -WATER)	03/01/2016	5 \$46.86	\$9.70	\$16.14	\$0.00	\$72.70
LI II ILIO LOCA	JJ/ (L)	.cm 130)		09/01/2016	6 \$47.86	\$9.70	\$16.14	\$0.00	\$73.70
Eog '	notos =: "	A	DIDEEUTTED# #DI LD 4DED /PU	03/01/2017	7 \$48.86	\$9.70	\$16.14	\$0.00	\$74.70
For apprentice r	ates see "	Apprentice- I	PIPEFITTER" or "PLUMBER/PIP	EF111EK" 					
Issue Date: 05	5/17/201	6	Wage Reni	est Number: 201605	17-042			P	Page 12 of 33

Classification			Effective I	ate	Base Wage	Health	Pension	Unemployment	Total Rat
HVAC MECH			03/01/20	16	\$46.86	\$9.70	\$16.14	\$0.00	\$72.70
PIPEFITTERS LO	CAL 53/ (I	Local 138)	09/01/20	16	\$47.86	\$9.70	\$16.14	\$0.00	\$73.70
			03/01/20	17	\$48.86	\$9.70	\$16.14	\$0.00	\$74.70
		"Apprentice- PIPEFITTER" or "PLUMBI	ER/PIPEFITTER"						
HYDRAULIC Laborers - zon		S	12/01/20	15	\$31.90	\$7.45	\$12.65	\$0.00	\$52.00
LABOKEKS - ZON	VE 2		06/01/20	16	\$32.40	\$7.45	\$12.65	\$0.00	\$52.50
			12/01/20	16	\$33.15	\$7.45	\$12.65	\$0.00	\$53.25
		"Apprentice- LABORER"							
NSULATOR (PIPES & TANKS) IEAT & FROST INSULATORS LOCAL 6 (BOSTON)		09/01/20		\$43.81	\$11.50	\$13.80	\$0.00	\$69.11	
			09/01/20		\$45.81	\$11.50	\$13.80	\$0.00	\$71.11
			09/01/20		\$47.81	\$11.50	\$13.80	\$0.00	\$73.11
			09/01/20		\$50.06	\$11.50	\$13.80	\$0.00	\$75.36
			09/01/20	19	\$52.56	\$11.50	\$13.80	\$0.00	\$77.86
	Step	percent	Apprentice Base Wag			Pension	Unemploymen	t Total Rat	
		ive Date - 09/01/2015 percent	Apprentice Base Wag	е Не	alth	Pension	Supplementa Unemploymen		e
	1	50	\$21.91	\$11	.50	\$10.05	\$0.00	\$43.4	6
	2	60	\$26.29	\$11	.50	\$10.80	\$0.00	\$48.5	9
	3	70	\$30.67	\$11	.50	\$11.55	\$0.00	\$53.7	2
	4	80	\$35.05	\$11	.50	\$12.30	\$0.00	\$58.8	5
		ive Date - 09/01/2016					Supplementa		
	Step	percent	Apprentice Base Wag	е Неа	alth	Pension	Unemploymen	t Total Rat	e
	1	50	\$22.91	\$11	.50	\$10.05	\$0.00	\$44.4	6
	2	60	\$27.49	\$11	.50	\$10.80	\$0.00	\$49.7	9
	3	70	\$32.07	\$11	.50	\$11.55	\$0.00	\$55.1	2
	4	80	\$36.65	\$11	.50	\$12.30	\$0.00	\$60.4	5
	Notes	<u> </u>							
	i	Steps are 1 year							
	Appro	entice to Journeyworker Ratio:1	:4						
IRONWORKI			03/16/20	16	\$43.40	\$7.80	\$20.85	\$0.00	\$72.05
IRONWORKERS I	LOCAL 7 (I	BUSI UN AREA)	09/16/20	16	\$44.05	\$7.80	\$20.85	\$0.00	\$72.70

Effective Date Base Wage Health

Classification

Supplemental

Pension

\$20.85

\$20.85

\$7.80

\$7.80

\$0.00

\$0.00

\$72.70

\$73.30

Total Rate

 Issue Date:
 05/17/2016
 Wage Request Number:
 20160517-042
 Page 13 of 33

09/16/2016

03/16/2017

\$44.05

\$44.65

Pension

		ve Date - 03/16/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	;
	1	60	\$26.04	\$7.80	\$20.85	\$0.00	\$54.69)
	2	70	\$30.38	\$7.80	\$20.85	\$0.00	\$59.03	}
	3	75	\$32.55	\$7.80	\$20.85	\$0.00	\$61.20)
	4	80	\$34.72	\$7.80	\$20.85	\$0.00	\$63.37	,
	5	85	\$36.89	\$7.80	\$20.85	\$0.00	\$65.54	ļ
	6	90	\$39.06	\$7.80	\$20.85	\$0.00	\$67.71	
	Effecti	ve Date - 09/16/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate)
	1	60	\$26.43	\$7.80	\$20.85	\$0.00	\$55.08	3
	2	70	\$30.84	\$7.80	\$20.85	\$0.00	\$59.49)
	3	75	\$33.04	\$7.80	\$20.85	\$0.00	\$61.69)
	4	80	\$35.24	\$7.80	\$20.85	\$0.00	\$63.89)
	5	85	\$37.44	\$7.80	\$20.85	\$0.00	\$66.09)
	6	90	\$39.65	\$7.80	\$20.85	\$0.00	\$68.30)
	Notes:	** Structural 1:6; Ornamental 1:4						
	Appre	ntice to Journeyworker Ratio:**						
		VING BREAKER OPERATOR	12/01/2015	\$31.40	\$7.45	\$12.65	\$0.00	\$51.50
RERS - ZONE	2		06/01/2016			\$12.65	\$0.00	\$52.0
			12/01/2016		\$7.45	\$12.65	\$0.00	\$52.73
	rates see "	Apprentice- LABORER"						
ORER	2		12/01/2015	\$31.15	\$7.45	\$12.65	\$0.00	\$51.23
RERS - ZONE	2		06/01/2016	\$31.65	\$7.45	\$12.65	\$0.00	\$51.73
			12/01/2016	\$32.40	\$7.45	\$12.65	\$0.00	\$52.50

Issue Date: 05/17/2016 Wage Request Number: 20160517-042 Page 14 of 33

	Effectiv		12/01/2015	Ammandia D 37	IItid.	D:	Supplemental	m.,.1n ·	
	Step	percent		Apprentice Base Wage		Pension	Unemployment	Total Rate	
	1	60		\$18.69	\$7.45	\$12.65	\$0.00	\$38.79	
	2	70		\$21.81	\$7.45	\$12.65	\$0.00	\$41.91	
	3	80		\$24.92	\$7.45	\$12.65	\$0.00	\$45.02	
	4	90		\$28.04	\$7.45	\$12.65	\$0.00	\$48.14	
	Effectiv	e Date -	06/01/2016				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	60		\$18.99	\$7.45	\$12.65	\$0.00	\$39.09	
	2	70		\$22.16	\$7.45	\$12.65	\$0.00	\$42.26	
	3	80		\$25.32	\$7.45	\$12.65	\$0.00	\$45.42	
	4	90		\$28.49	\$7.45	\$12.65	\$0.00	\$48.59	
	Notes:								
	ļ 								
			urneyworker Ratio:1:5				010.65		
BORER: CA		EK LENDI	EK	12/01/2015		\$7.45	\$12.65	\$0.00	\$51.2
				06/01/2016		\$7.45	\$12.65	\$0.00	\$51.7
For apprentice r	ates see "A	Apprentice- L.	ABORER"	12/01/2016	\$32.40	\$7.45	\$12.65	\$0.00	\$52.5
BORER: CEI	MENT I			12/01/2015	5 \$31.15	\$7.45	\$12.65	\$0.00	\$51.2
ORERS - ZONE	2			06/01/2016	\$31.65	\$7.45	\$12.65	\$0.00	\$51.7
F	. "	· · · ·	A DODER!	12/01/2016	\$32.40	\$7.45	\$12.65	\$0.00	\$52.50
For apprentice r BORER: HA ORERS - ZONE	ZARDO	••	TE/ASBESTOS REMOV	ER 12/01/2015	5 \$31.35	\$7.45	\$12.60	\$0.00	\$51.40
For apprentice r	ates see "A	Apprentice- L.	ABORER"						
BORER: MA		ENDER		12/01/2015	\$31.40	\$7.45	\$12.65	\$0.00	\$51.50
ORERS - ZONE	2			06/01/2016	\$31.90	\$7.45	\$12.65	\$0.00	\$52.0
				12/01/2016	\$32.65	\$7.45	\$12.65	\$0.00	\$52.7
For apprentice r		••							
BORER: MU <i>Orers - zone</i>		ADE TEN	DER	12/01/2015		\$7.45	\$12.65	\$0.00	\$51.2
				06/01/2016	\$31.65	\$7.45	\$12.65	\$0.00	\$51.73
For apprentice r	ates see "A	Apprentice- L.	ABORER"	12/01/2016	\$32.40	\$7.45	\$12.65	\$0.00	\$52.50
BORER: TRI		OVER		12/01/2015	5 \$31.15	\$7.45	\$12.65	\$0.00	\$51.23
ORERS - ZONE	2			06/01/2016		\$7.45	\$12.65	\$0.00	\$51.7
				12/01/2016		\$7.45	\$12.65	\$0.00	\$52.50
				f standing trees, and trimming and utility company equipment. For a	removal of branc	hes and limbs v	when the work is no	t done for	
SER BEAM			oracion, manucuance or repair or	12/01/2015		\$7.45	\$12.65	\$0.00	\$51.5
ORERS - ZONE				06/01/2010		\$7.45	\$12.65	\$0.00	\$52.00
				00/01/2010	, ψ51.70	Ψ1.73	Q12.00	~ · · · · ·	ΨυΔ.0

		02/01/201/	7 ¢20.24	¢10.10	\$17.78	¢0.00	0.7.20
		02/01/201	7 \$39.24	\$10.18	\$17.78	\$0.00	\$67.20
	ntice - <i>MARBLE & TILE FINISHER</i> ve Date - 02/01/2016	? - Local 3 Marble & Tile			Supplemental		
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	50	\$19.04	\$10.18	\$17.70	\$0.00	\$46.92	
2	60	\$22.85	\$10.18	\$17.70	\$0.00	\$50.73	
3	70	\$26.66	\$10.18	\$17.70	\$0.00	\$54.54	
4	80	\$30.46	\$10.18	\$17.70	\$0.00	\$58.34	
5	90	\$34.27	\$10.18	\$17.70	\$0.00	\$62.15	
Effective Step	ve Date - 08/01/2016 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	50	\$19.39	\$10.18	\$17.78	\$0.00	\$47.35	
2	60	\$23.27	\$10.18	\$17.78	\$0.00	\$51.23	
3	70	\$27.15	\$10.18	\$17.78	\$0.00	\$55.11	
4	80	\$31.02	\$10.18	\$17.78	\$0.00	\$58.98	
5	90	\$34.90	\$10.18	\$17.78	\$0.00	\$62.86	
Notes:							
Apprei	ntice to Journeyworker Ratio:1:3						
	LELAYERS & TERRAZZO MECH	02/01/2010	5 \$49.90	\$10.18	\$19.14	\$0.00	\$79.22
ERS LOCAL 3 - MA	AKBLE & TILE	08/01/2010	5 \$50.80	\$10.18	\$19.22	\$0.00	\$80.20
		02/01/2017	7 \$51.37	\$10.18	\$19.22	\$0.00	\$80.77

Effective Date

02/01/2016

08/01/2016

Base Wage

\$38.08

\$38.78

Health

\$10.18

\$10.18

Pension

\$17.70

\$17.78

Classification

MARBLE & TILE FINISHERS

BRICKLAYERS LOCAL 3 - MARBLE & TILE

Supplemental

\$0.00

\$0.00

Unemployment

Total Rate

\$65.96

\$66.74

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 16 of 33**

\$0.00

\$63.65

Total Rate

MILLWRIGHT (Zone 1)

MILLWRIGHTS LOCAL 1121 - Zone 1

Pension

Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile 02/01/2016 **Effective Date -**Supplemental Unemployment percent Apprentice Base Wage Health Pension Total Rate Step 1 50 \$24.95 \$10.18 \$19.14 \$54.27 \$0.00 2 60 \$29.94 \$10.18 \$19.14 \$0.00 \$59.26 3 70 \$34.93 \$10.18 \$19.14 \$0.00 \$64.25 4 80 \$39.92 \$10.18 \$19.14 \$0.00 \$69.24 5 90 \$44.91 \$10.18 \$0.00 \$74.23 \$19.14 **Effective Date -**08/01/2016 Supplemental Apprentice Base Wage Health Pension Unemployment Total Rate Step percent 1 50 \$25.40 \$10.18 \$19.22 \$0.00 \$54.80 2 60 \$30.48 \$10.18 \$19.22 \$0.00 \$59.88 3 70 \$35.56 \$10.18 \$19.22 \$0.00 \$64.96 4 80 \$40.64 \$10.18 \$19.22 \$0.00 \$70.04 5 90 \$45.72 \$0.00 \$75.12 \$10.18 \$19.22 Notes: Apprentice to Journeyworker Ratio:1:5 MECH. SWEEPER OPERATOR (ON CONST. SITES) 12/01/2015 \$43.31 \$10.00 \$14.90 \$0.00 \$68.21 OPERATING ENGINEERS LOCAL 4 \$14.90 \$0.00 06/01/2016 \$44.06 \$10.00 \$68.96 \$45.29 \$10.00 \$14.90 \$0.00 \$70.19 12/01/2016 \$0.00 06/01/2017 \$10.00 \$14.90 \$71.18 \$46.28 \$14.90 \$0.00 12/01/2017 \$47.27 \$10.00 \$72.17 For apprentice rates see "Apprentice- OPERATING ENGINEERS" MECHANICS MAINTENANCE 12/01/2015 \$14.90 \$0.00 \$43.31 \$10.00 \$68.21 OPERATING ENGINEERS LOCAL 4 \$14.90 \$0.00 06/01/2016 \$44.06 \$10.00 \$68.96 \$0.00 12/01/2016 \$14.90 \$45.29 \$10.00 \$70.19 06/01/2017 \$10.00 \$14.90 \$0.00 \$71.18 \$46.28 12/01/2017 \$14.90 \$0.00 \$47.27 \$10.00 \$72.17 For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Issue Date: 05/17/2016 Wage Request Number: 20160517-042 Page 17 of 33

04/01/2015

\$37.64

\$9.80

\$16.21

Pension

	Step	ve Date - 04/01/2015 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Ra	ite
	1	55	\$20.70	\$9.80	\$4.48	\$0.00	\$34.9	98
	2	65	\$24.47	\$9.80	\$13.36	\$0.00	\$47.0	63
	3	75	\$28.23	\$9.80	\$14.18	\$0.00	\$52.2	21
	4	85	\$31.99	\$9.80	\$14.99	\$0.00	\$56.7	78
	Notes:]
		Steps are 2,000 hours						ĺ
	Appre	ntice to Journeyworker Ratio:1:5						
MORTAR MI			12/01/2015	\$31.40	\$7.45	\$12.65	\$0.00	\$51.50
ABORERS - ZO	NE 2		06/01/2016	\$31.90	\$7.45	\$12.65	\$0.00	\$52.00
For apprentic	ce rates see '	'Apprentice- LABORER"	12/01/2016	\$32.65	\$7.45	\$12.65	\$0.00	\$52.75
,		N TRUCK CRANES,GRADALLS)	12/01/2015	\$22.27	\$10.00	\$14.90	\$0.00	\$47.17
PERATING EN	GINEERS LO	OCAL 4	06/01/2016	\$22.66	\$10.00	\$14.90	\$0.00	\$47.56
			12/01/2016	\$23.31	\$10.00	\$14.90	\$0.00	\$48.21
			06/01/2017	\$23.82	\$10.00	\$14.90	\$0.00	\$48.72
For apprenti	ce rates see '	'Apprentice- OPERATING ENGINEERS"	12/01/2017	\$24.34	\$10.00	\$14.90	\$0.00	\$49.24
ILER (TRU	CK CRA	NES, GRADALLS)	12/01/2015	\$26.08	\$10.00	\$14.90	\$0.00	\$50.98
PERATING EN	GINEERS LO	OCAL 4	06/01/2016	\$26.54	\$10.00	\$14.90	\$0.00	\$51.44
			12/01/2016	\$27.29	\$10.00	\$14.90	\$0.00	\$52.19
			06/01/2017	\$27.89	\$10.00	\$14.90	\$0.00	\$52.79
ъ .		ALL COMED ATTIVIS TO STATE THE	12/01/2017	\$28.50	\$10.00	\$14.90	\$0.00	\$53.40
		'Apprentice- OPERATING ENGINEERS"						
THER POW PERATING EN		YEN EQUIPMENT - CLASS II OCAL 4	12/01/2015	*	\$10.00	\$14.90	\$0.00	\$68.21
			06/01/2016		\$10.00	\$14.90	\$0.00	\$68.96
			12/01/2016		\$10.00	\$14.90	\$0.00	\$70.19
			06/01/2017		\$10.00	\$14.90	\$0.00	\$71.18
For apprentic	ce rates see '	'Apprentice- OPERATING ENGINEERS"	12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
AINTER (BI			01/01/2016	\$49.51	\$7.85	\$16.10	\$0.00	\$73.46
AINTERS LOCA						\$16.10	\$0.00	
			07/01/2016	\$50.46	\$7.85	\$10.1U	Φ 0.00	\$74.41

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

	Effect	ive Date -	01/01/2016				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	;
	1	50		\$24.76	\$7.85	\$0.00	\$0.00	\$32.61	
	2	55		\$27.23	\$7.85	\$3.66	\$0.00	\$38.74	
	3	60		\$29.71	\$7.85	\$3.99	\$0.00	\$41.55	
	4	65		\$32.18	\$7.85	\$4.32	\$0.00	\$44.35	
	5	70		\$34.66	\$7.85	\$14.11	\$0.00	\$56.62	
	6	75		\$37.13	\$7.85	\$14.44	\$0.00	\$59.42	
	7	80		\$39.61	\$7.85	\$14.77	\$0.00	\$62.23	
	8	90		\$44.56	\$7.85	\$15.44	\$0.00	\$67.85	
	Effect Step	ive Date -	07/01/2016	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	50		\$25.23	\$7.85	\$0.00	\$0.00	\$33.08	
	2	55		\$27.75	\$7.85	\$3.66	\$0.00	\$39.26	
	3	60		\$30.28	\$7.85	\$3.99	\$0.00	\$42.12	
	4	65		\$32.80	\$7.85	\$4.32	\$0.00	\$44.97	
	5	70		\$35.32	\$7.85	\$14.11	\$0.00	\$57.28	
	6	75		\$37.85	\$7.85	\$14.44	\$0.00	\$60.14	
	7	80		\$40.37	\$7.85	\$14.77	\$0.00	\$62.99	
	8	90		\$45.41	\$7.85	\$15.44	\$0.00	\$68.70	
	Notes:	 :							
		Steps are	750 hrs.						
	Appre	entice to Jo	urneyworker Ratio:1:1					'	
,			AST, NEW) *	01/01/2016	\$40.4	1 \$7.85	\$16.10	\$0.00	\$64.36
			painted are new construction	n, 07/01/2016	\$41.3	6 \$7.85	\$16.10	\$0.00	\$65.31
Ew paint rat	e snam be	usea. <i>PAIN</i>	TERS LOCAL 35 - ZONE 2	01/01/2017	\$42.3	1 \$7.85	\$16.10	\$0.00	\$66.26

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 19 of 33**

Pension Su

\$16.10

\$7.85

\$0.00

\$64.32

iental Total Rate

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	50	\$20.21	\$7.85	\$0.00	\$0.00	\$28.06	
2	55	\$22.23	\$7.85	\$3.66	\$0.00	\$33.74	
3	60	\$24.25	\$7.85	\$3.99	\$0.00	\$36.09	
4	65	\$26.27	\$7.85	\$4.32	\$0.00	\$38.44	
5	70	\$28.29	\$7.85	\$14.11	\$0.00	\$50.25	
6	75	\$30.31	\$7.85	\$14.44	\$0.00	\$52.60	
7	80	\$32.33	\$7.85	\$14.77	\$0.00	\$54.95	
8	90	\$36.37	\$7.85	\$15.44	\$0.00	\$59.66	
	ve Date - 07/01/2016				Supplemental		
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	50	\$20.68	\$7.85	\$0.00	\$0.00	\$28.53	
2	55	\$22.75	\$7.85	\$3.66	\$0.00	\$34.26	
3	60	\$24.82	\$7.85	\$3.99	\$0.00	\$36.66	
4	65	\$26.88	\$7.85	\$4.32	\$0.00	\$39.05	
5	70	\$28.95	\$7.85	\$14.11	\$0.00	\$50.91	
6	75	\$31.02	\$7.85	\$14.44	\$0.00	\$53.31	
7	80	\$33.09	\$7.85	\$14.77	\$0.00	\$55.71	
8	90	\$37.22	\$7.85	\$15.44	\$0.00	\$60.51	
Notes:							
į	Steps are 750 hrs.					İ	
Appre	ntice to Journeyworker Ratio:1:1						

01/01/2017

\$40.37

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 20 of 33**

Pension

Unemployment

	ffective						Supplemental		
S	tep p	ercent		Apprentice Base Wage	Health	Pension	Unemployment	Total F	late
1	1 :	50		\$19.24	\$7.85	\$0.00	\$0.00	\$27	.09
2	2 :	55		\$21.16	\$7.85	\$3.66	\$0.00	\$32	67
3	3 (50		\$23.08	\$7.85	\$3.99	\$0.00	\$34	.92
4	1 (55		\$25.01	\$7.85	\$4.32	\$0.00	\$37	.18
5	5	70		\$26.93	\$7.85	\$14.11	\$0.00	\$48	.89
ϵ	5	75		\$28.85	\$7.85	\$14.44	\$0.00	\$51	.14
7	7 8	30		\$30.78	\$7.85	\$14.77	\$0.00	\$53	.40
8	3 9	90		\$34.62	\$7.85	\$15.44	\$0.00	\$57	.91
	ffective				TT 1.1	ъ.	Supplemental	T . 1 T	. ,
_		ercent		Apprentice Base Wage		Pension	Unemployment	Total F	
1		50		\$19.71	\$7.85	\$0.00	\$0.00		.56
2		55		\$21.68	\$7.85	\$3.66	\$0.00	\$33	.19
3	·	50		\$23.65	\$7.85	\$3.99	\$0.00	\$35	.49
4	,	55		\$25.62	\$7.85	\$4.32	\$0.00	\$37	.79
5	5	70		\$27.59	\$7.85	\$14.11	\$0.00	\$49	2.55
ϵ	5	75		\$29.57	\$7.85	\$14.44	\$0.00	\$51	.86
7	7 8	30		\$31.54	\$7.85	\$14.77	\$0.00	\$54	.16
8	3 9	90		\$35.48	\$7.85	\$15.44	\$0.00	\$58	3.77
N	Notes:	teps are 750 hrs.		. — — — —					
A	pprenti	ce to Journeywo	orker Ratio:1:1						
NTER (TRAF	FIC MA	RKINGS)		12/01/2015	5 \$31.15	\$7.45	\$12.65	\$0.00	\$51.2
PRERS - ZONE 2				06/01/2016	\$31.65	\$7.45	\$12.65	\$0.00	\$51.7
				12/01/2016	\$32.40	\$7.45	\$12.65	\$0.00	\$52.5
		prentice- LABORER	<u>.</u> "						
NTER / TAPE			,	01/01/2016	\$39.01	\$7.85	\$16.10	\$0.00	\$62.9
		es to be painted a ed. <i>PAINTERS LOC</i> .	are new construction,	07/01/2016	\$39.96	\$7.85	\$16.10	\$0.00	\$63.9
· paint rate sil	an oc us	Ca.i miniens LOC	IL JJ = LOIYE 2	01/01/2017	\$40.91	\$7.85	\$16.10	\$0.00	\$64.8

Issue Date: 05/17/2016 Page 21 of 33 Wage Request Number: 20160517-042

Pension

\$16.10

\$16.10

\$0.00

\$0.00

\$61.97

\$62.92

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW 01/01/2016 **Effective Date -**Supplemental Unemployment Total Rate Step percent Apprentice Base Wage Health Pension 1 50 \$19.51 \$7.85 \$0.00 \$0.00 \$27.36 2 55 \$21.46 \$7.85 \$3.66 \$0.00 \$32.97 3 60 \$23.41 \$7.85 \$3.99 \$0.00 \$35.25 4 65 \$25.36 \$7.85 \$4.32 \$0.00 \$37.53 5 70 \$27.31 \$7.85 \$0.00 \$49.27 \$14.11 6 75 \$29.26 \$7.85 \$14.44 \$0.00 \$51.55 7 80 \$0.00 \$31.21 \$7.85 \$14.77 \$53.83 8 90 \$35.11 \$7.85 \$15.44 \$0.00 \$58.40 07/01/2016 **Effective Date -**Supplemental Apprentice Base Wage Health Pension Unemployment Total Rate Step percent 1 50 \$19.98 \$7.85 \$0.00 \$0.00 \$27.83 2 55 \$21.98 \$7.85 \$3.66 \$0.00 \$33.49 3 60 \$23.98 \$7.85 \$3.99 \$0.00 \$35.82 4 65 \$25.97 \$0.00 \$7.85 \$4.32 \$38.14 5 70 \$27.97 \$7.85 \$14.11 \$0.00 \$49.93 6 75 \$29.97 \$7.85 \$0.00 \$14.44 \$52.26 7 80 \$31.97 \$0.00 \$7.85 \$14.77 \$54.59 8 90 \$35.96 \$7.85 \$0.00 \$59.25 \$15.44 Notes: Steps are 750 hrs. Apprentice to Journeyworker Ratio:1:1 PAINTER / TAPER (BRUSH, REPAINT) \$0.00 01/01/2016 \$16.10 \$37.07 \$7.85 \$61.02 PAINTERS LOCAL 35 - ZONE 2

07/01/2016

01/01/2017

\$38.02

\$38.97

\$7.85

\$7.85

Issue Date: 05/17/2016 Wage Request Number: 20160517-042 Page 22 of 33

DECK)

PILE DRIVER

PILE DRIVER LOCAL 56 (ZONE 1)

PILE DRIVER LOCAL 56 (ZONE 1)

For apprentice rates see "Apprentice- PILE DRIVER"

Pension

\$19.23

\$0.00

\$71.07

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT 01/01/2016 **Effective Date -**Supplemental Unemployment percent Apprentice Base Wage Health Pension Total Rate Step 1 50 \$18.54 \$0.00 \$26.39 \$7.85 \$0.00 2 55 \$20.39 \$7.85 \$0.00 \$31.90 \$3.66 3 60 \$22.24 \$7.85 \$3.99 \$0.00 \$34.08 4 65 \$24.10 \$7.85 \$4.32 \$0.00 \$36.27 5 70 \$25.95 \$0.00 \$7.85 \$14.11 \$47.91 6 75 \$27.80 \$7.85 \$14.44 \$0.00 \$50.09 7 80 \$29.66 \$7.85 \$14.77 \$0.00 \$52.28 8 90 \$33.36 \$7.85 \$15.44 \$0.00 \$56.65 07/01/2016 **Effective Date -**Supplemental Apprentice Base Wage Health Pension Unemployment Total Rate Step percent 1 50 \$19.01 \$7.85 \$0.00 \$0.00 \$26.86 2 55 \$20.91 \$0.00 \$7.85 \$3.66 \$32.42 3 60 \$22.81 \$7.85 \$3.99 \$0.00 \$34.65 4 65 \$24.71 \$7.85 \$4.32 \$0.00 \$36.88 5 70 \$26.61 \$7.85 \$14.11 \$0.00 \$48.57 6 75 \$28.52 \$0.00 \$7.85 \$14.44 \$50.81 80 \$30.42 \$7.85 \$14.77 \$0.00 \$53.04 8 90 \$34.22 \$0.00 \$7.85 \$15.44 \$57.51 Notes: Steps are 750 hrs. Apprentice to Journeyworker Ratio:1:1 PANEL & PICKUP TRUCKS DRIVER \$8.00 \$0.00 12/01/2012 \$30.28 \$9.07 \$47.35 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND \$19.23 \$0.00 08/01/2015 \$9.80 \$71.07 \$42.04

Issue Date: 05/17/2016 Wage Request Number: 20160517-042 Page 23 of 33

08/01/2015

\$42.04

\$9.80

	Effecti Step	ve Date - 08/01/2015 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	50	\$21.02	\$9.80	\$19.23	\$0.00	\$50.05	
	2	60	\$25.22	\$9.80	\$19.23	\$0.00	\$54.25	
	3	70	\$29.43	\$9.80	\$19.23	\$0.00	\$58.46	
	4	75	\$31.53	\$9.80	\$19.23	\$0.00	\$60.56	
	5	80	\$33.63	\$9.80	\$19.23	\$0.00	\$62.66	
	6	80	\$33.63	\$9.80	\$19.23	\$0.00	\$62.66	
	7	90	\$37.84	\$9.80	\$19.23	\$0.00	\$66.87	
	8	90	\$37.84	\$9.80	\$19.23	\$0.00	\$66.87	
	Notes:							
		ntice to Journeyworker Ratio:1	:3					
IPEFITTER & PEFITTERS LOCA			03/01/2016	\$46.86	\$9.70	\$16.14	\$0.00	\$72.70
. D. 111 D. D. D. C.	.12007 (2		09/01/2016	\$47.86	\$9.70	\$16.14	\$0.00	\$73.70
			02/01/2017	# 10 0 6	¢0.70	\$16.14	\$0.00	\$74.70
	Effecti	ntice - PIPEFITTER Local 537 ve Date - 03/01/2016			\$9.70	Supplemental		
	Effecti Step	ve Date - 03/01/2016 percent			Pension		Total Rate	
	Effecti Step	ve Date - 03/01/2016 percent 40	Apprentice Base Wage	Health \$9.70	Pension \$5.50	Supplemental Unemployment \$0.00	Total Rate \$33.94	
	Step 1 2	ve Date - 03/01/2016 percent 40 45	Apprentice Base Wage \$18.74 \$21.09	Health \$9.70 \$9.70	Pension \$5.50 \$16.14	Supplemental Unemployment \$0.00 \$0.00	Total Rate \$33.94 \$46.93	
	Step 1 2 3	ve Date - 03/01/2016 percent 40 45 60	Apprentice Base Wage \$18.74 \$21.09 \$28.12	Health \$9.70 \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96	
	Step 1 2 3 4	ve Date - 03/01/2016 percent 40 45 60 70	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80	Health \$9.70 \$9.70 \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96 \$58.64	
	Step 1 2 3	ve Date - 03/01/2016 percent 40 45 60	Apprentice Base Wage \$18.74 \$21.09 \$28.12	Health \$9.70 \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96	
	Effecti Step 1 2 3 4 5	ve Date - 03/01/2016 percent 40 45 60 70	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96 \$58.64	
	Step 1 2 3 4 5 Effecti	ve Date - 03/01/2016 percent 40 45 60 70 80 ve Date - 09/01/2016	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80 \$37.49	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96 \$58.64 \$63.33	
	Effecti Step 1 2 3 4 5 Effecti Step	ve Date - 03/01/2016 percent 40 45 60 70 80 ve Date - 09/01/2016 percent	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80 \$37.49 Apprentice Base Wage	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 Health	Pension \$5.50 \$16.14 \$16.14 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment	Total Rate \$33.94 \$46.93 \$53.96 \$58.64 \$63.33	
	Step 1 2 3 4 5 Step 1	ve Date - 03/01/2016 percent 40 45 60 70 80 ve Date - 09/01/2016 percent 40	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80 \$37.49 Apprentice Base Wage	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 Health \$9.70	Pension \$5.50 \$16.14 \$16.14 \$16.14 \$16.14 Pension \$5.50	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00	Total Rate \$33.94 \$46.93 \$53.96 \$58.64 \$63.33 Total Rate \$34.34	
	Step 1 2 3 4 5	ve Date - 03/01/2016 percent 40 45 60 70 80 ve Date - 09/01/2016 percent 40 45	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80 \$37.49 Apprentice Base Wage \$19.14 \$21.54	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 Health \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14 \$16.14 \$16.14 Pension \$5.50 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96 \$58.64 \$63.33 Total Rate \$34.34 \$47.38	
	Effecti Step 1 2 3 4 5 Effecti Step 1 2 3 3 4 5	ve Date - 03/01/2016 percent 40 45 60 70 80 ve Date - 09/01/2016 percent 40 45 60	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80 \$37.49 Apprentice Base Wage \$19.14 \$21.54 \$28.72	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 Health \$9.70 \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14 \$16.14 \$16.14 Pension \$5.50 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96 \$58.64 \$63.33 Total Rate \$34.34 \$47.38 \$54.56	
	Effecti Step 1 2 3 4 5 Effecti Step 1 2 3 4 5	ve Date - 03/01/2016 percent 40 45 60 70 80 ve Date - 09/01/2016 percent 40 45 60 70 80 *** 1:3; 3:15; 1:10 thereafter / Si	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80 \$37.49 Apprentice Base Wage \$19.14 \$21.54 \$28.72 \$33.50 \$38.29 teps are 1 yr.	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14 \$16.14 \$16.14 Pension \$5.50 \$16.14 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96 \$58.64 \$63.33 Total Rate \$34.34 \$47.38 \$54.56 \$59.34	
	Effecti Step 1 2 3 4 5 Effecti Step 1 2 3 4 5 Notes:	ve Date - 03/01/2016 percent 40 45 60 70 80 ve Date - 09/01/2016 percent 40 45 60 70 80 70 80	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80 \$37.49 Apprentice Base Wage \$19.14 \$21.54 \$28.72 \$33.50 \$38.29 teps are 1 yr. ;2:4;3:6;4:8;5:10;6:12;7:14;8:17	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14 \$16.14 \$16.14 Pension \$5.50 \$16.14 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96 \$58.64 \$63.33 Total Rate \$34.34 \$47.38 \$54.56 \$59.34	
	Step 1 2 3 4 5	ve Date - 03/01/2016 percent 40 45 60 70 80 ve Date - 09/01/2016 percent 40 45 60 70 80 ** 1:3; 3:15; 1:10 thereafter / St Refrig/AC Mechanic **1:1;1:2;	Apprentice Base Wage \$18.74 \$21.09 \$28.12 \$32.80 \$37.49 Apprentice Base Wage \$19.14 \$21.54 \$28.72 \$33.50 \$38.29 teps are 1 yr. ;2:4;3:6;4:8;5:10;6:12;7:14;8:17	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 \$9.70	Pension \$5.50 \$16.14 \$16.14 \$16.14 \$16.14 Pension \$5.50 \$16.14 \$16.14 \$16.14	Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00	Total Rate \$33.94 \$46.93 \$53.96 \$58.64 \$63.33 Total Rate \$34.34 \$47.38 \$54.56 \$59.34	

PLUMBER			02/04/204	· • • • • •	φ		¢o oo	Ф 72 4С	
	SFITTERS	LOCAL 12 (Local 138	?)	03/01/2016		\$11.07	\$15.14	\$0.00	\$73.49
				09/01/2016		\$11.07	\$15.14	\$0.00	\$74.54
				03/01/2017	7 \$49.33	\$11.07	\$15.14	\$0.00	\$75.54
		DLUMD	ED/CACEUTTED I	12 (11 120)					
			ER/GASFITTER - Local I 1/2016	2 (Local 138)					
	Step	percent		prentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	35		\$16.55	\$11.07	\$5.63	\$0.00	\$33.25	
	2	40		\$18.91	\$11.07	\$6.37	\$0.00	\$36.35	
	3	55		\$26.00	\$11.07	\$8.56	\$0.00	\$45.63	
	4	65		\$30.73	\$11.07	\$10.03	\$0.00	\$51.83	
	5	75		\$35.46	\$11.07	\$10.03	\$0.00	\$58.01	
	-	7.5		\$33.40	\$11.07	\$11.40	\$0.00	\$36.01	
	Effect	ive Date - 09/0	1/2016				Supplemental		
	Step	percent	Aŗ	prentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	35		\$16.92	\$11.07	\$5.63	\$0.00	\$33.62	
	2	40		\$19.33	\$11.07	\$6.37	\$0.00	\$36.77	
	3	55		\$26.58	\$11.07	\$8.56	\$0.00	\$46.21	
	4	65		\$31.41	\$11.07	\$10.03	\$0.00	\$52.51	
	5	75		\$36.25	\$10.82	\$11.48	\$0.00	\$58.55	
	Notes:								
		Steps are 1 yr	54.02 Gr 5 - 14.11 0.61.1	0					
	Annre	ntice to Journey	54.93 Step5 with lic\$61.1						
PNEUMATIC (voikei Ratio.1.3	02 (04 (0.04)		#0. = 0	Φ1 C 1 A	Ф0.00	4-2-
PIPEFITTERS LOC		` /		03/01/2016		\$9.70	\$16.14	\$0.00	\$72.70
				09/01/2016		\$9.70	\$16.14	\$0.00	\$73.70
For apprentice	rates see '	'Apprentice- PIPEFIT'	ΓER" or "PLUMBER/PIPEFITΤ	03/01/2017 TER"	7 \$48.86	\$9.70	\$16.14	\$0.00	\$74.70
		TOOL OPERATO		12/01/2015	5 \$31.40	\$7.45	\$12.65	\$0.00	\$51.50
LABORERS - ZONE	2			06/01/2016		\$7.45	\$12.65	\$0.00	\$52.00
				12/01/2016		\$7.45	\$12.65	\$0.00	\$52.75
For apprentice	rates see	'Apprentice- LABORI	ER"						
POWDERMAN		ASTER		12/01/2015	\$32.15	\$7.45	\$12.65	\$0.00	\$52.25
LABORERS - ZONE	2			06/01/2016	\$32.65	\$7.45	\$12.65	\$0.00	\$52.75
				12/01/2016	\$33.40	\$7.45	\$12.65	\$0.00	\$53.50
		'Apprentice- LABORI							
POWER SHOV OPERATING ENGL		RRICK/TRENCH OCAL 4	ING MACHINE	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
				06/01/2016	5 \$44.48	\$10.00	\$14.90	\$0.00	\$69.38
				12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
				06/01/2017	7 \$46.73	\$10.00	\$14.90	\$0.00	\$71.63
_				12/01/2017	7 \$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice	rates see	'Apprentice- OPERAT	'ING ENGINEERS"						

Effective Date Base Wage Health

Classification

Supplemental

Unemployment

Pension

Total Rate

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 25 of 33**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PUMP OPERATOR (CONCRETE)	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
	12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
	06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
	12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER)	12/01/2015	\$30.13	\$10.00	\$14.90	\$0.00	\$55.03
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$30.65	\$10.00	\$14.90	\$0.00	\$55.55
	12/01/2016	\$31.52	\$10.00	\$14.90	\$0.00	\$56.42
	06/01/2017	\$32.21	\$10.00	\$14.90	\$0.00	\$57.11
	12/01/2017	\$32.90	\$10.00	\$14.90	\$0.00	\$57.80
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER	05/01/2016	\$24.15	\$8.49	\$10.68	\$0.00	\$43.32
EAMSTERS LOCAL 42	04/30/2017	\$24.15	\$8.49	\$11.07	\$0.00	\$43.71
	05/01/2017	\$24.21	\$8.49	\$11.54	\$0.00	\$44.24
	04/30/2018	\$24.21	\$8.49	\$11.96	\$0.00	\$44.66
	05/01/2018	\$24.24	\$8.49	\$12.46	\$0.00	\$45.19
	04/30/2019	\$24.24	\$8.49	\$12.92	\$0.00	\$45.65
RECLAIMERS	12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
	12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
	06/01/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
	12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
RESIDENTIAL WOOD FRAME (All Other Work) CARPENTERS - ZONE 2 (Residential Wood)	04/01/2011	\$24.24	\$8.67	\$15.51	\$0.00	\$48.42
RESIDENTIAL WOOD FRAME CARPENTER ** ** The Residential Wood Frame Carpenter classification applies	05/01/2011	\$24.24	\$6.34	\$6.23	\$0.00	\$36.81

^{**} The Residential Wood Frame Carpenter classification applies only to the construction of new, wood frame residences that do not exceed four stories including the basement. CARPENTERS -ZONE

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 26 of 33**

^{2 (}Residential Wood)

As of 9/1/09 Carpentry work on wood-frame residential WEATHERIZATION projects shall be paid the RESIDENTIAL WOOD FRAME CARPENTER rate.

\$0.00

\$64.26

\$11.00

\$40.36

\$12.90

Step percent	Step	tive Date -	4RPENTER (Residential Wo 05/01/2011				Supplemental		
2 60	r	percent		Apprentice Base Wage	Health	Pension		Total Rate	
3 65 S15.76 S6.34 S6.23 S0.00 \$29.54 4 70 S16.97 S6.34 S6.23 S0.00 \$29.54 5 75 S18.18 S6.34 S6.23 S0.00 \$30.75 6 80 S19.39 S6.34 S6.23 S0.00 S31.96 7 85 S20.60 S6.34 S6.23 S0.00 S31.96 Notes: Notes:	1	60		\$14.54	\$6.34	\$0.00	\$0.00	\$20.88	
## 70	2	60		\$14.54	\$6.34	\$6.23	\$0.00	\$27.11	
Size Size	3	65		\$15.76	\$6.34	\$6.23	\$0.00	\$28.33	
6 80 \$19.39 \$6.34 \$6.23 \$0.00 \$331.96 \$7 85 \$20.60 \$6.34 \$6.23 \$0.00 \$331.75 \$8 90 \$21.82 \$6.34 \$6.23 \$0.00 \$331.77 \$85 \$90 \$21.82 \$6.34 \$6.23 \$0.00 \$331.77 \$85 \$90 \$21.82 \$6.34 \$6.23 \$0.00 \$331.77 \$85 \$90 \$21.82 \$6.34 \$6.23 \$0.00 \$331.77 \$85 \$90 \$331.77 \$85 \$90 \$31.80 \$90.00 \$331.77 \$85 \$90.00 \$331.79 \$80.745 \$90.00 \$331.79 \$80.745 \$90.00 \$331.79 \$80.745 \$90.00 \$331.79 \$80.745 \$90.00 \$31.59 \$90.00 \$31.59 \$90.00 \$31.59 \$90.00	4	70		\$16.97	\$6.34	\$6.23	\$0.00	\$29.54	
Notes:	5	75		\$18.18	\$6.34	\$6.23	\$0.00	\$30.75	
Notes:	6	80		\$19.39	\$6.34	\$6.23	\$0.00	\$31.96	
Notes:	7	85		\$20.60	\$6.34	\$6.23	\$0.00	\$33.17	
Apprentice to Journeyworker Ratio:1:5 DE-ON MOTORIZED BUGGY OPERATOR 12/01/2016	8	90		\$21.82	\$6.34	\$6.23	\$0.00	\$34.39	
DE-ON MOTORIZED BUGGY OPERATOR 12/01/2015 \$31.40 \$7.45 \$12.65 \$0.00 \$51.5	Notes	S:							
DOLLER/SPREADER/MULCHING MACHINE 12/01/2016 \$31.90 \$7.45 \$12.65 \$0.00 \$52.7	Appr	entice to Jo	urneyworker Ratio:1:5					'	
12/01/2016 \$31.90 \$7.45 \$12.65 \$0.00 \$52.0		ED BUGGY	OPERATOR	12/01/2015	\$31.40	\$7.45	\$12.65	\$0.00	\$51.50
Total Rate	IBORERS - ZONE 2			06/01/2016	\$31.90	\$7.45	\$12.65	\$0.00	\$52.00
DULER/SPREADER/MULCHING MACHINE 12/01/2015 \$43.31 \$10.00 \$14.90 \$0.00 \$68.2				12/01/2016	\$32.65	\$7.45	\$12.65	\$0.00	\$52.7
1201/2016 \$44.06 \$10.00 \$14.90 \$0.00 \$68.9 12/01/2016 \$45.29 \$10.00 \$14.90 \$0.00 \$70.1 06/01/2017 \$46.28 \$10.00 \$14.90 \$0.00 \$71.1 12/01/2017 \$47.27 \$10.00 \$14.90 \$0.00 \$71.1 12/01/2017 \$47.27 \$10.00 \$14.90 \$0.00 \$71.1 12/01/2017 \$47.27 \$10.00 \$14.90 \$0.00 \$72.1 For apprentice rates see "Apprentice- OPERATING ENGINEERS" ODFER (Inc.Roofer Waterproofing & Roofer Damproofg) 02/01/2016 \$40.11 \$11.00 \$12.90 \$0.00 \$64.0 ODFER LOCAL 33							****		
12/01/2016			IG MACHINE						
COPERATING ENGINEERS" 12/01/2017 \$46.28 \$10.00 \$14.90 \$0.00 \$71.1									
12/01/2017 \$47.27 \$10.00 \$14.90 \$0.00 \$72.11									
Apprentice - ROOFER - Local 33 Effective Date - 02/01/2016 Section 20.00									
Apprentice - ROOFER - Local 33 Effective Date - 02/01/2016 Step percent	For apprentice rates see	e "Apprentice- (OPERATING ENGINEERS"	12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.1
Apprentice - ROOFER - Local 33 Effective Date - 02/01/2016 Apprentice Base Wage Health Pension Supplemental Unemployment Total Rate 1 50 \$20.06 \$11.00 \$3.39 \$0.00 \$34.45 2 60 \$24.07 \$11.00 \$12.90 \$0.00 \$47.97 3 65 \$26.07 \$11.00 \$12.90 \$0.00 \$49.97 4 75 \$30.08 \$11.00 \$12.90 \$0.00 \$53.98 5 85 \$34.09 \$11.00 \$12.90 \$0.00 \$57.99 Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1		Waterproofi	ng &Roofer Damproofg)	02/01/2016	\$40.11	\$11.00	\$12.90	\$0.00	\$64.01
1 50 \$20.06 \$11.00 \$3.39 \$0.00 \$34.45 2 60 \$24.07 \$11.00 \$12.90 \$0.00 \$47.97 3 65 \$26.07 \$11.00 \$12.90 \$0.00 \$49.97 4 75 \$30.08 \$11.00 \$12.90 \$0.00 \$53.98 5 85 \$34.09 \$11.00 \$12.90 \$0.00 \$57.99	Appro	tive Date -		Anguatica Deca Wasa	IIld.	Danier		Tatal Data	
2 60 \$24.07 \$11.00 \$12.90 \$0.00 \$47.97 3 65 \$26.07 \$11.00 \$12.90 \$0.00 \$49.97 4 75 \$30.08 \$11.00 \$12.90 \$0.00 \$53.98 5 85 \$34.09 \$11.00 \$12.90 \$0.00 \$57.99	Cton								
3 65 \$26.07 \$11.00 \$12.90 \$0.00 \$49.97 4 75 \$30.08 \$11.00 \$12.90 \$0.00 \$53.98 5 85 \$34.09 \$11.00 \$12.90 \$0.00 \$57.99									
4 75 \$30.08 \$11.00 \$12.90 \$0.00 \$53.98 5 85 \$34.09 \$11.00 \$12.90 \$0.00 \$57.99 Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1	1			824 O7	\$11.00	\$12.90			
5 85 \$34.09 \$11.00 \$12.90 \$0.00 \$57.99 Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1	1 2	60			¢11.00	Ø13 00			
Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1	1 2 3	60 65		\$26.07					
	1 2 3 4	60 65 75		\$26.07 \$30.08	\$11.00	\$12.90	\$0.00	\$53.98	
	1 2 3 4	60 65 75		\$26.07 \$30.08	\$11.00	\$12.90	\$0.00	\$53.98	

02/01/2016

ROOFER SLATE / TILE / PRECAST CONCRETE

For apprentice rates see "Apprentice- ROOFER"

ROOFERS LOCAL 33

SHEETMETAL			02/01/201	6 \$43.31	\$10.70	\$21.95	\$2.28	\$78.24
SHEETMETAL WO	RKERS L	OCAL 17 - A	08/01/201	6 \$44.46	\$10.70	\$21.95	\$2.28	\$79.39
			02/01/201	7 \$45.56	\$10.70	\$21.95	\$2.28	\$80.49
			08/01/201	7 \$46.66	\$10.70	\$21.95	\$2.28	\$81.59
			02/01/201	8 \$47.81	\$10.70	\$21.95	\$2.28	\$82.74
	Appre	ntice - SHEET METAL W	ORKER - Local 17-A					
		ive Date - 02/01/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	40	\$17.32	\$10.70	\$4.90	\$0.00	\$32.92	
	2	40	\$17.32	\$10.70	\$4.90	\$0.00	\$32.92	
	3	45	\$19.49	\$10.70	\$9.79	\$1.20	\$41.18	
	4	45	\$19.49	\$10.70	\$9.79	\$1.20	\$41.18	
	5	50	\$21.66	\$10.70	\$10.65	\$1.29	\$44.30	
	6	50	\$21.66	\$10.70	\$10.90	\$1.30	\$44.56	
	7	60	\$25.99	\$10.70	\$12.37	\$1.47	\$50.53	
	8	65	\$28.15	\$10.70	\$13.24	\$1.56	\$53.65	
	9	75	\$32.48	\$10.70	\$14.97	\$1.74	\$59.89	
	10	85	\$36.81	\$10.70	\$16.18	\$1.91	\$65.60	
	Effect	ive Date - 08/01/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	40	\$17.78	\$10.70	\$4.90	\$0.00	\$33.38	
	2	40	\$17.78	\$10.70	\$4.90	\$0.00	\$33.38	
	3	45	\$20.01	\$10.70	\$9.79	\$1.22	\$41.72	
	4	45	\$20.01	\$10.70	\$9.79	\$1.22	\$41.72	
	5	50	\$22.23	\$10.70	\$10.65	\$1.31	\$44.89	
	6	50	\$22.23	\$10.70	\$10.90	\$1.31	\$45.14	
	7	60	\$26.68	\$10.70	\$12.37	\$1.49	\$51.24	
	8	65	\$28.90	\$10.70	\$13.24	\$1.59	\$54.43	
	9	75	\$33.35	\$10.70	\$14.97	\$1.77	\$60.79	
	10	85	\$37.79	\$10.70	\$16.18	\$1.94	\$66.61	
	Notes:							
		Steps are 6 mos.					i	
aran en sacción	_ ^ ^	entice to Journeyworker Ra	atio:1:4					
SIGN ERECTO	K		06/01/201	3 \$25.81	\$7.07	\$7.05	\$0.00	\$39.93

Effective Date Base Wage

Health

Pension

Classification

PAINTERS LOCAL 35 - ZONE 2

Supplemental

Unemployment

Total Rate

Issue Date: 05/17/2016 Wage Request Number: 20160517-042 Page 28 of 33

Pension

Apprentice -	SIGN ERECTOR - Local	' 35 Zone 2
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	Effecti	ive Date - 06/01/2013				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$12.91	\$7.07	\$0.00	\$0.00	\$19.98	
	2	55	\$14.20	\$7.07	\$2.45	\$0.00	\$23.72	
	3	60	\$15.49	\$7.07	\$2.45	\$0.00	\$25.01	
	4	65	\$16.78	\$7.07	\$2.45	\$0.00	\$26.30	
	5	70	\$18.07	\$7.07	\$7.05	\$0.00	\$32.19	
	6	75	\$19.36	\$7.07	\$7.05	\$0.00	\$33.48	
	7	80	\$20.65	\$7.07	\$7.05	\$0.00	\$34.77	
	8	85	\$21.94	\$7.07	\$7.05	\$0.00	\$36.06	
	9	90	\$23.23	\$7.07	\$7.05	\$0.00	\$37.35	
	Notes:							
		Steps are 4 mos.						
	Appre	ntice to Journeyworker Ratio:1:1						
		H MOVING EQUIP < 35 TONS	12/01/2015	\$31.9	4 \$10.41	\$10.08	\$0.00	\$52.43
TEAMSTERS JOIN	VI COUNC	IL NO. 10 ZONE B	06/01/2016	\$32.4	4 \$10.41	\$10.08	\$0.00	\$52.93
			08/01/2016	\$32.4	4 \$10.91	\$10.08	\$0.00	\$53.43
			12/01/2016	\$32.4	4 \$10.91	\$10.89	\$0.00	\$54.24
		H MOVING EQUIP > 35 TONS	12/01/2015	\$32.2	3 \$10.41	\$10.08	\$0.00	\$52.72
TEAMSTERS JOIN	NT COUNC	IL NO. 10 ZONE B	06/01/2016	\$32.7	3 \$10.41	\$10.08	\$0.00	\$53.22
			08/01/2016	\$32.7	3 \$10.91	\$10.08	\$0.00	\$53.72
			12/01/2016	\$32.7	3 \$10.91	\$10.89	\$0.00	\$54.53
SPRINKLER I			03/01/2016	5 \$48.9	9 \$8.67	\$16.80	\$0.00	\$74.46
SPRINKLER FITT	ERS LOCA	L 550 - (Section B) Zone 2	10/01/2016	\$49.9	8 \$8.67	\$16.80	\$0.00	\$75.45
			03/01/2017			\$16.80	\$0.00	

Issue Date: 05/17/2016 Wage Request Number: 20160517-042 Page 29 of 33

Supplemental

Total Rate

	ective Date -	03/01/2016				Supplemental		
Ste			Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	35		\$17.15	\$8.67	\$8.55	\$0.00	\$34.37	
2	40		\$19.60	\$8.67	\$8.55	\$0.00	\$36.82	
3	45		\$22.05	\$8.67	\$8.55	\$0.00	\$39.27	
4	50		\$24.50	\$8.67	\$8.55	\$0.00	\$41.72	
5	55		\$26.94	\$8.67	\$8.55	\$0.00	\$44.16	
6	60		\$29.39	\$8.67	\$8.55	\$0.00	\$46.61	
7	65		\$31.84	\$8.67	\$8.55	\$0.00	\$49.06	
8	70		\$34.29	\$8.67	\$8.55	\$0.00	\$51.51	
9	75		\$36.74	\$8.67	\$8.55	\$0.00	\$53.96	
10	80		\$39.19	\$8.67	\$8.55	\$0.00	\$56.41	
	ective Date -	10/01/2016				Supplemental		
Ste			Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	35		\$17.49	\$8.67	\$8.55	\$0.00	\$34.71	
2	40		\$19.99	\$8.67	\$8.55	\$0.00	\$37.21	
3	45		\$22.49	\$8.67	\$8.55	\$0.00	\$39.71	
4	50		\$24.99	\$8.67	\$8.55	\$0.00	\$42.21	
5	55		\$27.49	\$8.67	\$8.55	\$0.00	\$44.71	
6	60		\$29.99	\$8.67	\$8.55	\$0.00	\$47.21	
7	65		\$32.49	\$8.67	\$8.55	\$0.00	\$49.71	
8	70		\$34.99	\$8.67	\$8.55	\$0.00	\$52.21	
9	75		\$37.49	\$8.67	\$8.55	\$0.00	\$54.71	
10	80		\$39.98	\$8.67	\$8.55	\$0.00	\$57.20	
Not	40/45/50	ee entered prior 9/30/10: /55/60/65/70/75/80/85 850 hours						
Ap	orentice to Jo	ourneyworker Ratio:1:3						
M BOILER O			12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.
TING ENGINEER	S LOCAL 4		06/01/2016			\$14.90	\$0.00	\$68.
			12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.

		12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING EN	GINEERS"						
TAMPERS, SELF-PROPELLED OR TRACTO	R DRAWN	12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING ENGINEERS LOCAL 4		06/01/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
		12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
		06/01/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
		12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING EN	GINEERS"						
TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 103		03/01/2016	\$34.63	\$13.00	\$14.55	\$0.00	\$62.18
Issue Date: 05/17/2016	Wage Request Number:	20160517-	042				Page 30 of 33

BRICKLAYERS LOCAL 3 - MARBLE & TILE

Pension

\$19.22

\$19.22

\$0.00

\$0.00

\$79.10

\$79.67

\$10.18

\$10.18

	ve Date - 03/01/2016				Supplemental	
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	40	\$13.85	\$13.00	\$0.42	\$0.00	\$27.27
2	40	\$13.85	\$13.00	\$0.42	\$0.00	\$27.27
3	45	\$15.58	\$13.00	\$11.52	\$0.00	\$40.10
4	45	\$15.58	\$13.00	\$11.52	\$0.00	\$40.10
5	50	\$17.32	\$13.00	\$11.79	\$0.00	\$42.11
6	55	\$19.05	\$13.00	\$12.06	\$0.00	\$44.11
7	60	\$20.78	\$13.00	\$12.34	\$0.00	\$46.12
8	65	\$22.51	\$13.00	\$12.62	\$0.00	\$48.13
9	70	\$24.24	\$13.00	\$12.90	\$0.00	\$50.14
10	75	\$25.97	\$13.00	\$13.17	\$0.00	\$52.14
Notes:						
						j
Appre	ntice to Journeyworker Ra	ntio:1:1				
RAZZO FINISHE	RS	02/01/2016	\$48.	80 \$10.18	\$19.14 \$	50.00 \$78.12

08/01/2016

02/01/2017

\$49.70

\$50.27

Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effecti	ive Date -	02/01/2016				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50		\$24.40	\$10.18	\$19.14	\$0.00	\$53.72
2	60		\$29.28	\$10.18	\$19.14	\$0.00	\$58.60
3	70		\$34.16	\$10.18	\$19.14	\$0.00	\$63.48
4	80		\$39.04	\$10.18	\$19.14	\$0.00	\$68.36
5	90		\$43.92	\$10.18	\$19.14	\$0.00	\$73.24
Effective Date -		08/01/2016				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50		\$24.85	\$10.18	\$19.22	\$0.00	\$54.25
2	60		\$29.82	\$10.18	\$19.22	\$0.00	\$59.22
3	70		\$34.79	\$10.18	\$19.22	\$0.00	\$64.19
4	80		\$39.76	\$10.18	\$19.22	\$0.00	\$69.16
5	90		\$44.73	\$10.18	\$19.22	\$0.00	\$74.13
Notes:							- — — —
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Apprentice to Journeyworker Ratio:1:3

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING DRILLER	12/01/2015	\$36.70	\$7.45	\$13.75	\$0.00	\$57.90
LABORERS - FOUNDATION AND MARINE	06/01/2016	\$37.45	\$7.45	\$13.75	\$0.00	\$58.65
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$38.45	\$7.45	\$13.75	\$0.00	\$59.65
TEST BORING DRILLER HELPER	10/01/0017	***	A-1-	012.75	ФО ОО	0.5.4.40
LABORERS - FOUNDATION AND MARINE	12/01/2015	\$35.42	\$7.45	\$13.75	\$0.00	\$56.62
	06/01/2016	\$36.17	\$7.45	\$13.75	\$0.00	\$57.37
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$37.17	\$7.45	\$13.75	\$0.00	\$58.37
TEST BORING LABORER	12/01/2015	\$35.30	\$7.45	\$13.75	\$0.00	\$56.50
LABORERS - FOUNDATION AND MARINE	06/01/2016	\$36.05	\$7.45	\$13.75	\$0.00	\$57.25
	12/01/2016	\$37.05	\$7.45	\$13.75	\$0.00	\$58.25
For apprentice rates see "Apprentice- LABORER"		40,110	4,,,,			44.0.20
TRACTORS/PORTABLE STEAM GENERATORS	12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
	12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
	06/01/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
	12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT	12/01/2015	\$32.52	\$10.41	\$10.08	\$0.00	\$53.01
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	06/01/2016	\$33.02	\$10.41	\$10.08	\$0.00	\$53.51
	08/01/2016	\$33.02	\$10.91	\$10.08	\$0.00	\$54.01
	12/01/2016	\$33.02	\$10.91	\$10.89	\$0.00	\$54.82
TUNNEL WORK - COMPRESSED AIR	12/01/2015	\$47.58	\$7.45	\$14.15	\$0.00	\$69.18
LABORERS (COMPRESSED AIR)	06/01/2016	\$48.33	\$7.45	\$14.15	\$0.00	\$69.93
	12/01/2016	\$49.33	\$7.45	\$14.15	\$0.00	\$70.93
For apprentice rates see "Apprentice- LABORER"		4 13 10 0	4,,,,			4,000
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	12/01/2015	\$49.58	\$7.45	\$14.15	\$0.00	\$71.18
LABORERS (COMPRESSED AIR)	06/01/2016	\$50.33	\$7.45	\$14.15	\$0.00	\$71.93
	12/01/2016	\$51.33	\$7.45	\$14.15	\$0.00	\$72.93
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR	12/01/2015	\$39.65	\$7.45	\$14.15	\$0.00	\$61.25
LABORERS (FREE AIR TUNNEL)	06/01/2016	\$40.40	\$7.45	\$14.15	\$0.00	\$62.00
	12/01/2016	\$41.40	\$7.45	\$14.15	\$0.00	\$63.00
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE)	12/01/2015	\$41.65	\$7.45	\$14.15	\$0.00	\$63.25
LABORERS (FREE AIR TUNNEL)	06/01/2016	\$42.40	\$7.45	\$14.15	\$0.00	\$64.00
	12/01/2016	\$43.40	\$7.45	\$14.15	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2015	\$31.94	\$10.41	\$10.08	\$0.00	\$52.43
ILLIMBILIO JOHNI COUNCIL INO. 10 ZONE D	06/01/2016	\$32.44	\$10.41	\$10.08	\$0.00	\$52.93
	08/01/2016	\$32.44	\$10.91	\$10.08	\$0.00	\$53.43
	12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24
WAGON DRILL OPERATOR	12/01/2015	\$31.40	\$7.45	\$12.65	\$0.00	\$51.50
LABORERS - ZONE 2	06/01/2016	\$31.90	\$7.45	\$12.65	\$0.00	\$52.00
	12/01/2016	\$32.65	\$7.45	\$12.65	\$0.00	\$52.75
For apprentice rates see "Apprentice- LABORER"						

 Issue Date:
 05/17/2016
 Wage Request Number:
 20160517-042
 Page 32 of 33

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
WASTE WATER PUMP OPERATOR	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
	12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
	06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
WATER METER INSTALLER	03/01/2016	\$47.28	\$11.07	\$15.14	\$0.00	\$73.49
PLUMBERS & GASFITTERS LOCAL 12 (Local 138)	09/01/2016	\$48.33	\$11.07	\$15.14	\$0.00	\$74.54
For convention rates one "Ampropries Di LIMDED/DIDECITTED" or "DI	03/01/2017	\$49.33	\$11.07	\$15.14	\$0.00	\$75.54
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PI	LUMBER/GASFII IER"					

Additional Apprentice Information:

Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the M.G.L. c. 149, ss. 26-27D. Apprentice ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

All apprentices must be registered with the Division of Apprenticeship Training in accordance with M.G.L. c. 23, ss. 11E-11L.

All steps are six months (1000 hours.)

Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified.

- ** Multiple ratios are listed in the comment field.
- *** APP to JM; 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.
- **** APP to JM; 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.

Issue Date: 05/17/2016 **Wage Request Number:** 20160517-042 **Page 33 of 33**





Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the day of (In words, indicate day, month and year)

in the year

BETWEEN the Owner: (Name, address and other information)

and the Contractor: (Name, address and other information)

for the following Project: (Name, location and detailed description)

The Architect: (Name, address and other information)

The Owner and Contractor agree as follows.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

AIA Document A201™–2007, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

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TABLE OF ARTICLES

- 1 THE CONTRACT DOCUMENTS
- 2 THE WORK OF THIS CONTRACT
- 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
- 4 CONTRACT SUM
- 5 PAYMENTS
- 6 DISPUTE RESOLUTION
- 7 TERMINATION OR SUSPENSION
- 8 MISCELLANEOUS PROVISIONS
- 9 ENUMERATION OF CONTRACT DOCUMENTS
- 10 INSURANCE AND BONDS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be the date of this Agreement unless a different date is stated below or provision is made for the date to be fixed in a notice to proceed issued by the Owner. (Insert the date of commencement if it differs from the date of this Agreement or, if applicable, state that the date will be fixed in a notice to proceed.)

If, prior to the commencement of the Work, the Owner requires time to file mortgages and other security interests, the Owner's time requirement shall be as follows:

§ 3.2 The Contract Time shall be measured from the date of commencement.

§ 3.3 The Contractor shall achieve Substantial Completion of the entire Work not later than date of commencement, or as follows:

(Insert number of calendar days. Alternatively, a calendar date may be used when coordinated with the date of commencement. If appropriate, insert requirements for earlier Substantial Completion of certain portions of the Work.)

Init.

Portion of Work

Substantial Completion Date

, subject to adjustments of this Contract Time as provided in the Contract Documents. (Insert provisions, if any, for liquidated damages relating to failure to achieve Substantial Completion on time or for bonus payments for early completion of the Work.)

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be (\$), subject to additions and deductions as provided in the Contract Documents.

§ 4.2 The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:

(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)

§ 4.3 Unit prices, if any:

(Identify and state the unit price; state quantity limitations, if any, to which the unit price will be applicable.)

Units and Limitations

Price Per Unit

§ 4.4 Allowances included in the Contract Sum, if any: (Identify allowance and state exclusions, if any, from the allowance price.)

Item

Price

ARTICLE 5 PAYMENTS

§ 5.1 PROGRESS PAYMENTS

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

§ 5.1.3 Provided that an Application for Payment is received by the Architect not later than the day of a month, the Owner shall make payment of the certified amount to the Contractor not later than the day of the same month. If an Application for Payment is received by the Architect after the application date fixed above, payment shall be made by the Owner not later than () days after the Architect receives the Application for Payment. (Federal, state or local laws may require payment within a certain period of time.)

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form and supported

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by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

- .1 Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included as provided in Section 7.3.9 of AIA Document A201TM-2007, General Conditions of the Contract for Construction;
- .2 Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage of ();
- .3 Subtract the aggregate of previous payments made by the Owner; and
- Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment .4 as provided in Section 9.5 of AIA Document A201-2007.

§ 5.1.7 The progress payment amount determined in accordance with Section 5.1.6 shall be further modified under the following circumstances:

- Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to the full amount of the Contract Sum, less such amounts as the Architect shall determine for incomplete Work, retainage applicable to such work and unsettled claims; and (Section 9.8.5 of AIA Document A201-2007 requires release of applicable retainage upon Substantial Completion of Work with consent of surety, if any.)
- .2 Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Section 9.10.3 of AIA Document A201-2007.

§ 5.1.8 Reduction or limitation of retainage, if any, shall be as follows:

(If it is intended, prior to Substantial Completion of the entire Work, to reduce or limit the retainage resulting from the percentages inserted in Sections 5.1.6.1 and 5.1.6.2 above, and this is not explained elsewhere in the Contract Documents, insert here provisions for such reduction or limitation.)

§ 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 FINAL PAYMENT

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

- the Contractor has fully performed the Contract except for the Contractor's responsibility to correct .1 Work as provided in Section 12.2.2 of AIA Document A201-2007, and to satisfy other requirements, if any, which extend beyond final payment; and
- .2 a final Certificate for Payment has been issued by the Architect.

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

(3992038406)

ARTICLE 6 DISPUTE RESOLUTION § 6.1 INITIAL DECISION MAKER

The Architect will serve as Initial Decision Maker pursuant to Section 15.2 of AIA Document A201-2007, unless the parties appoint below another individual, not a party to this Agreement, to serve as Initial Decision Maker. (If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

§ 6.2 BINDING DISPUTE RESOLUTION

For any Claim subject to, but not resolved by, mediation pursuant to Section 15.3 of AIA Document A201-2007, the method of binding dispute resolution shall be as follows:

(Check the appropriate box. If the Owner and Contractor do not select a method of binding dispute resolution below, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.)

]]	Arbitration pursuant to Section 15.4 of AIA Document A201-2007
]]	Litigation in a court of competent jurisdiction
]]	Other (Specify)

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201-2007.

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2007.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201-2007 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is

(Insert rate of interest agreed upon, if any.)

per annum

§ 8.3 The Owner's representative: (Name, address and other information)

§ 8.4 The Contractor's representative: (Name, address and other information)

(3992038406)

§ 8.5 Neither the Owner's nor the Contractor's representative shall be changed without ten days written notice to the other party.

§ 8.6 Other provisions:

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 The Contract Documents, except for Modifications issued after execution of this Agreement, are enumerated in the sections below.

§ 9.1.1 The Agreement is this executed AIA Document A101-2007, Standard Form of Agreement Between Owner and Contractor.

§ 9.1.2 The General Conditions are AIA Document A201-2007, General Conditions of the Contract for Construction.

§ 9.1.3 The Supplementary and other Conditions of the Contract:

Document

Title

Date

Pages

§ 9.1.4 The Specifications:

(Either list the Specifications here or refer to an exhibit attached to this Agreement.)

Title of Specifications exhibit:

(Table deleted)

§ 9.1.5 The Drawings:

(Either list the Drawings here or refer to an exhibit attached to this Agreement.)

Title of Drawings exhibit:

(Table deleted)

§ 9.1.6 The Addenda, if any:

Number

Date

Pages

Portions of Addenda relating to bidding requirements are not part of the Contract Documents unless the bidding requirements are also enumerated in this Article 9.

§ 9.1.7 Additional documents, if any, forming part of the Contract Documents:

- AIA Document E201TM-2007, Digital Data Protocol Exhibit, if completed by the parties, or the following:
- Other documents, if any, listed below: (List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201-2007 provides that bidding requirements such as advertisement or invitation to bid, Instructions to Bidders, sample forms and the Contractor's bid are not part of the Contract Documents unless enumerated in this Agreement. They should be listed here only if intended to be part of the Contract Documents.)

ARTICLE 10 INSURANCE AND BONDS

The Contractor shall purchase and maintain insurance and provide bonds as set forth in Article 11 of AIA Document A201-2007.

Init.

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(3992038406)

(State bonding requirements, if any, and limits of liability for insurance required in Article 11 of AIA Document A201-2007.)

Type of insurance or bond

This Agreement entered into as of the day and year first written above.

Limit of liability or bond amount (\$ 0.00)

OWNER (Signature)	CONTRACTOR (Signature)	
(Printed name and title)	(Printed name and title)	

User Notes:

(3992038406)

Performance Bond

CONTRACTOR:		SURETY:		
(Name, legal status and addre	ess)		and principal place	
Sample		of business)		
Sample		Sample		This document has important legal
Sample		Sample		consequences. Consultation with an attorney is encouraged with
OWNER: (Name, legal status and address	ess)	Sample		respect to its completion or modification.
Sample				Any singular reference to
Sample Sample				Contractor, Surety, Owner or other party shall be considered
CONSTRUCTION CONTRACT				plural where applicable.
Date:				AIA Document A312–2010 combines two separate bonds, a
Amount:				Performance Bond and a Payment Bond, into one form.
Description: (Name and location)				This is not a single combined Performance and Payment Bond.
Sample				
Sample				
BOND Date: (Not earlier than Constructio	n Contract Date	·)		
(Not earlier than Construction	n Comraci Baic	•/		
Amount:				
Modifications to this Bond:	□ None	☐ See Section 16		
CONTRACTOR AS PRINCIPAL		CUDETY		
CONTRACTOR AS PRINCIPAL Company: (C	orporate Seal)	SURETY Company:	(Corporate Seal)	
Signature:Name and Title:		Signature: Name and Title:		
(Any additional signatures ap	ppear on the last	t page of this Perforn	nance Bond.)	
(FOR INFORMATION ONL) AGENT or BROKER:	Y — Name, addr	ess and telephone) OWNER'S REPRESE	ENTATIVE:	

(Architect, Engineer or other party:)

- § 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.
- § 2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Section 3.
- § 3 If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after
 - the Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Section 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default:
 - .2 the Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and
 - .3 the Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.
- § 4 Failure on the part of the Owner to comply with the notice requirement in Section 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.
- § 5 When the Owner has satisfied the conditions of Section 3, the Surety shall promptly and at the Surety's expense take one of the following actions:
- § 5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;
- § 5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;
- § 5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Section 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or
- § 5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:
 - .1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or
 - .2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.
- § 6 If the Surety does not proceed as provided in Section 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Section 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

- § 7 If the Surety elects to act under Section 5.1, 5.2 or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication, for
 - .1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;
 - .2 additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Section 5; and
 - .3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.
- § 8 If the Surety elects to act under Section 5.1, 5.3 or 5.4, the Surety's liability is limited to the amount of this Bond.
- § 9 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors and assigns.
- § 10 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.
- § 11 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.
- § 12 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.
- § 13 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 14 Definitions

- § 14.1 Balance of the Contract Price. The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.
- § 14.2 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.
- § 14.3 Contractor Default. Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.
- § 14.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.
- § 14.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.
- § 15 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 16 Modifications to this bond are as follows: (Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL	man bignamin es of animer	SURETY	77 8	1 0 /
Company:	(Corporate Seal)	Company:		(Corporate Seal)
Signature:		Signature:		
Name and Title:		Name and Title:		
Address:		Address:		

$\blacksquare AIA^{\circ}$ Document A312 $^{\text{TM}}$ – 2010

Payment Bond

CONTRACTOR: (Name, legal status and addressample	ess)	SURETY: (Name, legal status of business)	s and principal place	
Sample Sample OWNER: (Name, legal status and address)	ess)	Sample Sample Sample		This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.
Sample Sample				Any singular reference to Contractor, Surety, Owner or other party shall be considered
CONSTRUCTION CONTRACT Date:				plural where applicable. AIA Document A312–2010 combines two separate bonds, a
Amount:				Performance Bond and a Payment Bond, into one form. This is not a single combined
Description: (Name and location) Sample Sample				Performance and Payment Bond.
BOND Date: (Not earlier than Construction	n Contract Date	?)		
Amount:				
Modifications to this Bond:	□ None	☐ See Section 18		
CONTRACTOR AS PRINCIPAL Company: (Company)	orporate Seal)	SURETY Company:	(Corporate Seal)	
Signature:Name and Title: (Any additional signatures ap	opear on the last	Signature: Name and Title: page of this Payme	ent Bond.)	
(FOR INFORMATION ONL) AGENT or BROKER:	Y — Name, addr	ess and telephone) OWNER'S REPRES	SENTATIVE:	

(Architect, Engineer or other party:)

- § 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner to pay for labor, materials and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.
- § 2 If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.
- § 3 If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Section 13) of claims, demands, liens or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract and tendered defense of such claims, demands, liens or suits to the Contractor and the Surety.
- § 4 When the Owner has satisfied the conditions in Section 3, the Surety shall promptly and at the Surety's expense defend, indemnify and hold harmless the Owner against a duly tendered claim, demand, lien or suit.
- § 5 The Surety's obligations to a Claimant under this Bond shall arise after the following:
- § 5.1 Claimants, who do not have a direct contract with the Contractor.
 - have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and
 - .2 have sent a Claim to the Surety (at the address described in Section 13).
- § 5.2 Claimants, who are employed by or have a direct contract with the Contractor, have sent a Claim to the Surety (at the address described in Section 13).
- § 6 If a notice of non-payment required by Section 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Section 5.1.1.
- § 7 When a Claimant has satisfied the conditions of Sections 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:
- § 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and
- § 7.2 Pay or arrange for payment of any undisputed amounts.
- § 7.3 The Surety's failure to discharge its obligations under Section 7.1 or Section 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Section 7.1 or Section 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.
- § 8 The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Section 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.
- § 9 Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.

- § 10 The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to, or give notice on behalf of, Claimants or otherwise have any obligations to Claimants under this Bond.
- § 11 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.
- § 12 No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Section 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.
- § 13 Notice and Claims to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.
- § 14 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.
- § 15 Upon request by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.

§ 16 Definitions

- § 16.1 Claim. A written statement by the Claimant including at a minimum:
 - .1 the name of the Claimant;
 - .2 the name of the person for whom the labor was done, or materials or equipment furnished;
 - a copy of the agreement or purchase order pursuant to which labor, materials or equipment was furnished for use in the performance of the Construction Contract;
 - .4 a brief description of the labor, materials or equipment furnished;
 - .5 the date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
 - .6 the total amount earned by the Claimant for labor, materials or equipment furnished as of the date of the Claim;
 - .7 the total amount of previous payments received by the Claimant; and
 - .8 the total amount due and unpaid to the Claimant for labor, materials or equipment furnished as of the date of the Claim.
- § 16.2 Claimant. An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.
- § 16.3 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.

- § 16.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.
- § 16.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.
- § 17 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.
- § 18 Modifications to this bond are as follows:

(Space is provided below for addition CONTRACTOR AS PRINCIPAL	onal signatures of addec	l parties, other than those SURETY	e appearing on the cover page.)
Company:	(Corporate Seal)	Company:	(Corporate Seal)
Signatura		Signature:	
Signature: Name and Title: Address:		Name and Title: Address:	



Application and Certificate for Payment

		Contract Constitution of Contract Contr	and the second desired construction of the second s
TO OWNER:	PROJECT:		APPLICATION NO: 001 Distribution to: DEBIOD TO: DMNER-
FROM CONTRACTOR:	VIA ARCHITECT:		FOR: General Construction ARC DATE: CONTR
			OTHER:
CONTRACTOR'S APPLICATION FOR PAYMENT	PAYMENT		The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and balish the Work coursed by this Application for Payment has been completed in accordance
Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.	nnection with the Contract.		with the Contract Documents, that all processes been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and
1, ORIGINAL CONTRACT SUM	→	0.00	that current payment shown herein is now due.
2. Net change by Change Orders		0.00	CONTRACTOR:
3, CONTRACT SUM TO DATE (Line 1 ± 2)	↔	0.00	By:
4, TOTAL COMPLETED & STORED TO DATE (Column G on G703)	on G703) \$	0.00	State of:
5. RETAINAGE:			County of:
a. 0 % of Completed Work			bed and sw
(Column D + E on G703)	0.00	~ 1	me this day of
b. 0 % of Stored Material			
(Column F on G703)	\$ 0.00	0.1	Notary Public:
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	of G703)\$	00.00	My Commission expires:
6. TOTAL EARNED LESS RETAINAGE	69	0.00	ARCHITECT'S CERTIFICATE FOR PAYMENT
(Line 4 Less Line 5 Total) 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT	69	0.00	In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge.
(Line 6 from prior Certificate)			accordance with the Contract Documents, and the Contractor is entitled to payment of the
8. CURRENT PAYMENT DUE	\$	00.00	AMOUNT CERTIFIED.
9. BALANCE TO FINISH, INCLUDING RETAINAGE			AMOUNT CERTIFIED \$ 0.00
(Line 3 less Line 6)	\$ 0.00	C.I	(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)
CHANGE ORDER SUMMARY	ADDITIONS DED	DEDUCTIONS	HITECT:
Total changes approved in previous months by Owner	\$ 00.00	0.00	By:
		0.00	This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor
TOTALS	\$ 00.00	0.00	named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of
NET CHANGES by Change Order	€9	0.00	the Owner or Contractor under this Contract

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Confinuation Sheet

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, Use Column I on Contracts where variable retainage for line items may apply. In tabulations below, amounts are stated to the nearest dollar. containing Contractor's signed certification is attached.

APPLICATION NO: 001 APPLICATION DATE:

BALANCE TO RETAINAGE FINISH (IF VARIABLE FINISH (C-G) H ARCHITECT'S PROJECT NO: $(G \div C)$ % PERIOD TO: AND STORED COMPLETED TOTAL MATERIALS PRESENTLY L WORK COMPLETED 田 **PREVIOUS** FROM 9 SCHEDULED C DESCRIPTION OF WORK 2

\$ 0.00

\$ 0.00

0.00 %

\$ 0.00

\$ 0.00

\$ 0.00

\$ 0.00

\$ 0.00

GRAND TOTAL

RATE)

TO DATE (D+E+F)

STORED (NOT INDORE)

THIS PERIOD

APPLICATION

VALUE

ITEM NO.

ď

(D+E)

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Certificate of Substantial Completion

coverage.)

PROJECT: (Name and address):	PROJECT NUMBER: / CONTRACT FOR: General Construction CONTRACT DATE:	OWNER: ARCHITECT: CONTRACTOR:					
TO OWNER:	TO CONTRACTOR:	FIELD:					
(Name and address):	(Name and address):	OTHER:					
PROJECT OR PORTION OF THE PROJECT	DESIGNATED FOR PARTIAL OCCUPANCY	_					
to be substantially complete. Substantial C portion is sufficiently complete in accorda its intended use. The date of Substantial C	Completion is the stage in the progress of the completion is the Contract Documents so that the Completion of the Project or portion designates the completion of the Project or portion designates.	ect's best knowledge, information and belief, ne Work when the Work or designated he Owner can occupy or utilize the Work for ated above is the date of issuance established required by the Contract Documents, except					
Warranty	Date of Commen	cement					
responsibility of the Contractor to comple	BY d is attached hereto. The failure to include te all Work in accordance with the Contract reprises for items on the attached list will be	t Documents. Unless otherwise agreed to in					
writing, the date of commencement of warranties for items on the attached list will be the date of issuance of the final Certificate of Payment or the date of final payment.							
Cost estimate of Work that is incomple	te or defective: \$ 0.00						
The Contractor will complete or correct the of Substantial Completion.	e Work on the list of items attached hereto	within Zero (0) days from the above date					
CONTRACTOR	ВУ	DATE					
The Owner accepts the Work or designate (date).	d portion as substantially complete and wil	l assume full possession at (time) on					
OWNER	ВУ	DATE					
shall be as follows:	ntractor for security, maintenance, heat, util						



Supplemental Attachment for ACORD Certificate of Insurance 25-S

(This document replaces AIA Document G705, Certificate of Insurance.)

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Change Order

PROJECT (Name and address):	CHANGE ORDER NUMBER: 001	OWNER: □	
	DATE: May 22, 2003	ARCHITECT: □	
	ARCHITECT'S PROJECT NUMBER:	CONTRACTOR: □	
TO CONTRACTOR (Name and address):	CONTRACT DATE:	FIELD: □	
	CONTRACT FOR: General Construction	OTHER:	
THE CONTRACT IS CHANGED AS FOLLOW (Include, where applicable, any undispute	VS: ed amount attributable to previously execute	ed Construction Change Directives)	
The original Contract Sum was The net change by previously authorized The Contract Sum prior to this Change O. The Contract Sum will be increased by th The new Contract Sum including this Change	rder was is Change Order in the amount of	\$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00	
The Contract Time will be increased by Z	Zero (0) days. the date of this Change Order therefore is		
have been authorized by Construction Ch Contractor, in which case a Change Orde	de changes in the Contract Sum, Contract T range Directive until the cost and time have r is executed to supersede the Construction RCHITECT, CONTRACTOR AND OWNER.	been agreed upon by both the Owner and Change Directive.	
ARCHITECT (Firm name)	CONTRACTOR (Firm name)	OWNER (Firm name)	
ADDRESS	ADDRESS		
BY (Signature) BY (Signature) BY (Signature)			
(Typed name) (Typed name) (Typed name)			
DATE	DATE	DATE	

(Seal)

CBI Consulting Inc. Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

SECTIO	ON 00 66 00 - GENERAL RELEASE AND	WAIVER OF LIEN
NAME:	(Contractor)	
ADDRE	SS:	
	City of Salem	Date:
V 9	City Hall Office of the City Purchasing Agent Whitney C. Haskell, City Purchasing Agent 3 Washington Street, 3 rd Floor Salem, Massachusetts 01970	
Project:	Historic Repairs to Salem Common Cast-Iron Fence Salem, Massachusetts	
all action of Salem us in con property historic i	We, the undersigned, in consideration of payrus, debts, claims, and demands against, on account of all work, services, equipment an ection with the construction of a building, which was a construction of the City of Salem at the Historic repairs to the cast-iron fence, or pursuant to out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem and amondments and out the City of Salem a	(General Contractor) and the City it, and materials performed or furnished by improvements, and facilities on real Salem Fence and in connection with the our contract, dated
V file any s	th the City of Salem, and amendments and converge waive and release any mechanics's such lien in the future, against said real properties and materials performed or furnished by use the converge was also become and materials performed or furnished by use the converge was also become and materials performed or furnished by use the converge was also become and th	, materialman's, or like lien, and all rights to erty on account of said work, services,
Date:		
Ву:		
Title:		

(Seal)

CBI Consulting Inc. Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

SECTIO	ON 00 66 10 - GENERAL RELEASE ANI	WAIVER OF LIEN
NAME:	(Sub-Contractor/Material Supplier)	
ADDRE	ESS:	
	City of Salem	Date:
() ()	City Hall Office of the City Purchasing Agent Whitney C. Haskell, City Purchasing Agent Office Washington Street, 3 rd Floor Salem, Massachusetts 01970	
Project:	Historic Repairs to Salem Common Cast-Iron Fence Salem, Massachusetts	
all action of Salen us in comproperty historic	We, the undersigned, in consideration of payers, debts, claims, and demands against, on account of all work, services, equipment nection with the construction of a building, wowned by The City of Salem at the Historic repairs to the cast-iron fence, or pursuant to eath the City of Salem, and amendments and countries.	(General Contractor) and the City at, and materials performed or furnished by improvements, and facilities on real Salem Fence and in connection with the our contract, dated
file any	We hereby waive and release any mechanics' such lien in the future, against said real propent and materials performed or furnished by	erty on account of said work, services,
Date:		
By:		
Title:		



General Conditions of the Contract for Construction

for the following PROJECT: (Name and location or address)

THE OWNER: (Name and address)

THE ARCHITECT: (Name and address)

TABLE OF ARTICLES

- 1 GENERAL PROVISIONS
- 2 OWNER
- 3 CONTRACTOR
- 4 ARCHITECT
- 5 SUBCONTRACTORS
- CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS
- 7 CHANGES IN THE WORK
- 8 TIME
- 9 PAYMENTS AND COMPLETION
- 10 PROTECTION OF PERSONS AND PROPERTY
- 11 INSURANCE AND BONDS
- 12 UNCOVERING AND CORRECTION OF WORK
- 13 MISCELLANEOUS PROVISIONS
- 14 TERMINATION OR SUSPENSION OF THE CONTRACT
- 15 CLAIMS AND DISPUTES

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

1

(Numbers and Topics in Bold are Section Headings) Acceptance of Nonconforming Work 9.6.6, 9.9.3, 12.3 Acceptance of Work 9.6.6, 9.8.2, 9.9.3, 9.10.1, 9.10.3, 12.3 Access to Work 3.16, 6.2.1, 12.1 Accident Prevention 10 Acts and Omissions 3.2, 3.3.2, 3.12.8, 3.18, 4.2.3, 8.3.1, 9.5.1, 10.2.5, 10.2.8, 13.4.2, 13.7.1, 14.1, 15.2 Addenda 1.1.1, 3.11.1 Additional Costs, Claims for 3.7.4, 3.7.5, 6.1.1, 7.3.7.5, 10.3, 15.1.4 Additional Inspections and Testing 9.4.2, 9.8.3, 12.2.1, 13.5 Additional Insured 11.1.4 Additional Time, Claims for 3.2.4, 3.7.4, 3.7.5, 3.10.2, 8.3.2, 15.1.5 **Administration of the Contract** 3.1.3, 4.2, 9.4, 9.5 Advertisement or Invitation to Bid 1.1.1 Aesthetic Effect 4.2.13 Allowances 3.8, 7.3.8 All-risk Insurance 11.3.1, 11.3.1.1 **Applications for Payment** 4.2.5, 7.3.9, 9.2, 9.3, 9.4, 9.5.1, 9.6.3, 9.7.1, 9.10, 11.1.3 Approvals 2.1.1, 2.2.2, 2.4, 3.1.3, 3.10.2, 3.12.8, 3.12.9, 3.12.10, 4.2.7, 9.3.2, 13.5.1 Arbitration 8.3.1, 11.3.10, 13.1.1, 15.3.2, 15.4 ARCHITECT Architect, Definition of Architect, Extent of Authority 2.4.1, 3.12.7, 4.1, 4.2, 5.2, 6.3.1, 7.1.2, 7.3.7, 7.4, 9.2.1, 9.3.1, 9.4, 9.5, 9.6.3, 9.8, 9.10.1, 9.10.3, 12.1, 12.2.1, 13.5.1, 13.5.2, 14.2.2, 14.2.4, 15.1.3, 15.2.1 Architect, Limitations of Authority and Responsibility

2.1.1, 3.12.4, 3.12.8, 3.12.10, 4.1.2, 4.2.1, 4.2.2,

9.4.2, 9.5.3, 9.6.4, 15.1.3, 15.2

User Notes:

4.2.3, 4.2.6, 4.2.7, 4.2.10, 4.2.12, 4.2.13, 5.2.1, 7.4.1,

Architect's Additional Services and Expenses 2.4.1, 11.3.1.1, 12.2.1, 13.5.2, 13.5.3, 14.2.4 Architect's Administration of the Contract 3.1.3, 4.2, 3.7.4, 15.2, 9.4.1, 9.5 Architect's Approvals 2.4.1, 3.1.3, 3.5.1, 3.10.2, 4.2.7 Architect's Authority to Reject Work 3.5.1, 4.2.6, 12.1.2, 12.2.1 Architect's Copyright 1.1.7, 1.5 Architect's Decisions 3.7.4, 4.2.6, 4.2.7, 4.2.11, 4.2.12, 4.2.13, 4.2.14, 6.3.1, 7.3.7, 7.3.9, 8.1.3, 8.3.1, 9.2.1, 9.4.1, 9.5, 9.8.4, 9.9.1, 13.5.2, 15.2, 15.3 Architect's Inspections 3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.8.3, 9.9.2, 9.10.1, 13.5 Architect's Instructions 3.2.4, 3.3.1, 4.2.6, 4.2.7, 13.5.2 Architect's Interpretations 4.2.11, 4.2.12 Architect's Project Representative 4.2.10 Architect's Relationship with Contractor 1.1.2, 1.5, 3.1.3, 3.2.2, 3.2.3, 3.2.4, 3.3.1, 3.4.2, 3.5.1, 3.7.4, 3.7.5, 3.9.2, 3.9.3, 3.10, 3.11, 3.12, 3.16, 3.18, 4.1.2, 4.1.3, 4.2, 5.2, 6.2.2, 7, 8.3.1, 9.2, 9.3, 9.4, 9.5, 9.7, 9.8, 9.9, 10.2.6, 10.3, 11.3.7, 12, 13.4.2, 13.5, Architect's Relationship with Subcontractors 1.1.2, 4.2.3, 4.2.4, 4.2.6, 9.6.3, 9.6.4, 11.3.7 Architect's Representations 9.4.2, 9.5.1, 9.10.1 Architect's Site Visits 3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.5.1, 9.9.2, 9.10.1, 13.5 Asbestos 10.3.1 Attorneys' Fees 3.18.1, 9.10.2, 10.3.3 Award of Separate Contracts 6.1.1, 6.1.2 Award of Subcontracts and Other Contracts for Portions of the Work 5.2 **Basic Definitions** 1.1 Bidding Requirements 1.1.1, 5.2.1, 11.4.1 Binding Dispute Resolution 9.7.1, 11.3.9, 11.3.10, 13.1.1, 15.2.5, 15.2.6.1, 15.3.1, 15.3.2, 15.4.1 **Boiler and Machinery Insurance** 11.3.2 Bonds, Lien 7.3.7.4, 9.10.2, 9.10.3 Bonds, Performance, and Payment 7.3.7.4, 9.6.7, 9.10.3, 11.3.9, 11.4

Init.

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Building Permit	Completion, Substantial
3.7.1	4.2.9, 8.1.1, 8.1.3, 8.2.3, 9.4.2, 9.8, 9.9.1, 9.10.3,
Capitalization	12.2, 13.7
1.3	Compliance with Laws
Certificate of Substantial Completion	1.6.1, 3.2.3, 3.6, 3.7, 3.12.10, 3.13, 4.1.1, 9.6.4,
9.8.3, 9.8.4, 9.8.5	10.2.2, 11.1, 11.3, 13.1, 13.4, 13.5.1, 13.5.2, 13.6,
Certificates for Payment	14.1.1, 14.2.1.3, 15.2.8, 15.4.2, 15.4.3
4.2.1, 4.2.5, 4.2.9, 9.3.3, 9.4, 9.5, 9.6.1, 9.6.6, 9.7.1,	Concealed or Unknown Conditions
9.10.1, 9.10.3, 14.1.1.3, 14.2.4, 15.1.3	3.7.4, 4.2.8, 8.3.1, 10.3
Certificates of Inspection, Testing or Approval	Conditions of the Contract
13.5.4	1.1.1, 6.1.1, 6.1.4
Certificates of Insurance	Consent, Written
9.10.2, 11.1.3	
Change Orders	3.4.2, 3.7.4, 3.12.8, 3.14.2, 4.1.2, 9.3.2, 9.8.5, 9.9.1,
	9.10.2, 9.10.3, 11.3.1, 13.2, 13.4.2, 15.4.4.2
1.1.1, 2.4.1, 3.4.2, 3.7.4, 3.8.2.3, 3.11.1, 3.12.8, 4.2.8,	Consolidation or Joinder
5.2.3, 7.1.2, 7.1.3, 7.2 , 7.3.2, 7.3.6, 7.3.9, 7.3.10,	15.4.4
8.3.1, 9.3.1.1, 9.10.3, 10.3.2, 11.3.1.2, 11.3.4, 11.3.9,	CONSTRUCTION BY OWNER OR BY
12.1.2, 15.1.3	SEPARATE CONTRACTORS
Change Orders, Definition of	1.1.4, 6
7.2.1	Construction Change Directive, Definition of
CHANGES IN THE WORK	7.3.1
2.2.1, 3.11, 4.2.8, 7, 7.2.1, 7.3.1, 7.4, 7.4.1, 8.3.1,	Construction Change Directives
9.3.1.1, 11.3.9	1.1.1, 3.4.2, 3.12.8, 4.2.8, 7.1.1, 7.1.2, 7.1.3, 7.3 ,
Claims, Definition of	9.3.1.1
15.1.1	Construction Schedules, Contractor's
CLAIMS AND DISPUTES	3.10, 3.12.1, 3.12.2, 6.1.3, 15.1.5.2
3.2.4, 6.1.1, 6.3.1, 7.3.9, 9.3.3, 9.10.4, 10.3.3, 15 ,	Contingent Assignment of Subcontracts
15.4	5.4, 14.2.2.2
Claims and Timely Assertion of Claims	Continuing Contract Performance
15.4.1	15.1.3
Claims for Additional Cost	Contract, Definition of
3.2.4, 3.7.4, 6.1.1, 7.3.9, 10.3.2, 15.1.4	1.1.2
Claims for Additional Time	CONTRACT, TERMINATION OR
3.2.4, 3.7.46.1.1, 8.3.2, 10.3.2, 15.1.5	SUSPENSION OF THE
Concealed or Unknown Conditions, Claims for	5.4.1.1, 11.3.9, 14
3.7.4	Contract Administration
Claims for Damages	3.1.3, 4, 9.4, 9.5
3.2.4, 3.18, 6.1.1, 8.3.3, 9.5.1, 9.6.7, 10.3.3, 11.1.1,	Contract Award and Execution, Conditions Relating
11.3.5, 11.3.7, 14.1.3, 14.2.4, 15.1.6	to
Claims Subject to Arbitration	3.7.1, 3.10, 5.2, 6.1, 11.1.3, 11.3.6, 11.4.1
15.3.1, 15.4.1	Contract Documents, The
Cleaning Up	1.1.1
3.15 , 6.3	Contract Documents, Copies Furnished and Use of
Commencement of the Work, Conditions Relating to	1.5.2, 2.2.5, 5.3
2.2.1, 3.2.2, 3.4.1, 3.7.1, 3.10.1, 3.12.6, 5.2.1, 5.2.3,	Contract Documents, Definition of
6.2.2, 8.1.2, 8.2.2, 8.3.1, 11.1, 11.3.1, 11.3.6, 11.4.1,	1.1.1
15.1.4	Contract Sum
Commencement of the Work, Definition of	3.7.4, 3.8, 5.2.3, 7.2, 7.3, 7.4, 9.1, 9.4.2, 9.5.1.4,
8.1.2	9.6.7, 9.7, 10.3.2, 11.3.1, 14.2.4, 14.3.2, 15.1.4,
Communications Facilitating Contract	15.2.5
Administration	Contract Sum, Definition of
3.9.1, 4.2.4	9.1
Completion, Conditions Relating to	Contract Time
3.4.1, 3.11, 3.15, 4.2.2, 4.2.9, 8.2, 9.4.2, 9.8, 9.9.1,	3.7.4, 3.7.5, 3.10.2, 5.2.3, 7.2.1.3, 7.3.1, 7.3.5, 7.4,
9.10, 12.2, 13.7, 14.1.2	8.1.1, 8.2.1, 8.3.1, 9.5.1, 9.7.1, 10.3.2, 12.1.1, 14.3.2,
COMPLETION, PAYMENTS AND	15.1.5.1, 15.2.5
9	Contract Time, Definition of
	8

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8.1.1	Costs
CONTRACTOR	2.4.1, 3.2.4, 3.7.3, 3.8.2, 3.15.2, 5.4.2, 6.1.1, 6.2.3,
3	7.3.3.3, 7.3.7, 7.3.8, 7.3.9, 9.10.2, 10.3.2, 10.3.6,
Contractor, Definition of	11.3, 12.1.2, 12.2.1, 12.2.4, 13.5, 14
3.1, 6.1.2	Cutting and Patching
Contractor's Construction Schedules	3.14, 6.2.5
3.10, 3.12.1, 3.12.2, 6.1.3, 15.1.5.2	Damage to Construction of Owner or Separate
Contractor's Employees	Contractors
3.3.2, 3.4.3, 3.8.1, 3.9, 3.18.2, 4.2.3, 4.2.6, 10.2, 10.3,	3.14.2, 6.2.4, 10.2.1.2, 10.2.5, 10.4, 11.1.1, 11.3,
11.1.1, 11.3.7, 14.1, 14.2.1.1,	12.2.4
Contractor's Liability Insurance	
11.1	Damage to the Work
Contractor's Relationship with Separate Contractors	3.14.2, 9.9.1, 10.2.1.2, 10.2.5, 10.4.1, 11.3.1, 12.2.4
and Owner's Forces	Damages, Claims for
3.12.5, 3.14.2, 4.2.4, 6, 11.3.7, 12.1.2, 12.2.4	3.2.4, 3.18, 6.1.1, 8.3.3, 9.5.1, 9.6.7, 10.3.3, 11.1.1,
Contractor's Relationship with Subcontractors	11.3.5, 11.3.7, 14.1.3, 14.2.4, 15.1.6
1.2.2, 3.3.2, 3.18.1, 3.18.2, 5, 9.6.2, 9.6.7, 9.10.2,	Damages for Delay
11.3.1.2, 11.3.7, 11.3.8	6.1.1, 8.3.3, 9.5.1.6, 9.7, 10.3.2
	Date of Commencement of the Work, Definition o
Contractor's Relationship with the Architect	8.1.2
1.1.2, 1.5, 3.1.3, 3.2.2, 3.2.3, 3.2.4, 3.3.1, 3.4.2, 3.5.1,	Date of Substantial Completion, Definition of
3.7.4, 3.10, 3.11, 3.12, 3.16, 3.18, 4.1.3, 4.2, 5.2,	8.1.3
6.2.2, 7, 8.3.1, 9.2, 9.3, 9.4, 9.5, 9.7, 9.8, 9.9, 10.2.6,	Day, Definition of
10.3, 11.3.7, 12, 13.5, 15.1.2, 15.2.1	8.1.4
Contractor's Representations	Decisions of the Architect
3.2.1, 3.2.2, 3.5.1, 3.12.6, 6.2.2, 8.2.1, 9.3.3, 9.8.2	3.7.4, 4.2.6, 4.2.7, 4.2.11, 4.2.12, 4.2.13, 15.2, 6.3,
Contractor's Responsibility for Those Performing the	7.3.7, 7.3.9, 8.1.3, 8.3.1, 9.2.1, 9.4, 9.5.1, 9.8.4, 9.9.1
Work	13.5.2, 14.2.2, 14.2.4, 15.1, 15.2
3.3.2, 3.18, 5.3.1, 6.1.3, 6.2, 9.5.1, 10.2.8	Decisions to Withhold Certification
Contractor's Review of Contract Documents	9.4.1, 9.5 , 9.7, 14.1.1.3
3.2	Defective or Nonconforming Work, Acceptance,
Contractor's Right to Stop the Work	Rejection and Correction of
9.7	2.3.1, 2.4.1, 3.5.1, 4.2.6, 6.2.5, 9.5.1, 9.5.2, 9.6.6,
Contractor's Right to Terminate the Contract	9.8.2, 9.9.3, 9.10.4, 12.2.1
14.1, 15.1.6	Defective Work, Definition of
Contractor's Submittals	3.5.1
3.10, 3.11, 3.12.4, 4.2.7, 5.2.1, 5.2.3, 9.2, 9.3, 9.8.2,	Definitions
9.8.3, 9.9.1, 9.10.2, 9.10.3, 11.1.3, 11.4.2	1.1, 2.1.1, 3.1.1, 3.5.1, 3.12.1, 3.12.2, 3.12.3, 4.1.1,
Contractor's Superintendent	15.1.1, 5.1, 6.1.2, 7.2.1, 7.3.1, 8.1, 9.1, 9.8.1
3.9, 10.2.6	Delays and Extensions of Time
Contractor's Supervision and Construction	3.2., 3.7.4, 5.2.3, 7.2.1, 7.3.1, 7.4.1, 8.3 , 9.5.1, 9.7.1,
Procedures	10.3.2, 10.4.1, 14.3.2, 15.1.5, 15.2.5
1.2.2, 3.3, 3.4, 3.12.10, 4.2.2, 4.2.7, 6.1.3, 6.2.4,	Disputes
7.1.3, 7.3.5, 7.3.7, 8.2, 10, 12, 14, 15.1.3	6.3.1, 7.3.9, 15.1, 15.2
Contractual Liability Insurance	Documents and Samples at the Site
11.1.1.8, 11.2	3.11
Coordination and Correlation	Drawings, Definition of
1.2, 3.2.1, 3.3.1, 3.10, 3.12.6, 6.1.3, 6.2.1	1.1.5
Copies Furnished of Drawings and Specifications	Drawings and Specifications, Use and Ownership of
1.5, 2.2.5, 3.11	3.11
Copyrights	Effective Date of Insurance
1.5, 3.17	8.2.2, 11.1.2
Correction of Work	Emergencies
2.3, 2.4, 3.7.3, 9.4.2, 9.8.2, 9.8.3, 9.9.1, 12.1.2, 12.2	10.4 , 14.1.1.2, 15.1.4
Correlation and Intent of the Contract Documents	
1.2	Employees, Contractor's
Cost, Definition of	3.3.2, 3.4.3, 3.8.1, 3.9, 3.18.2, 4.2.3, 4.2.6, 10.2,
7.3.7	10.3.3, 11.1.1, 11.3.7, 14.1, 14.2.1.1
1,3,1	Equipment, Labor, Materials or

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1.1.3, 1.1.6, 3.4, 3.5.1, 3.8.2, 3.8.3, 3.12, 3.13.1, Insurance 3.15.1, 4.2.6, 4.2.7, 5.2.1, 6.2.1, 7.3.7, 9.3.2, 9.3.3, 3.18.1, 6.1.1, 7.3.7, 9.3.2, 9.8.4, 9.9.1, 9.10.2, 11 9.5.1.3, 9.10.2, 10.2.1, 10.2.4, 14.2.1.1, 14.2.1.2 Insurance, Boiler and Machinery Execution and Progress of the Work 1.1.3, 1.2.1, 1.2.2, 2.2.3, 2.2.5, 3.1, 3.3.1, 3.4.1, 3.5.1, Insurance, Contractor's Liability 3.7.1, 3.10.1, 3.12, 3.14, 4.2, 6.2.2, 7.1.3, 7.3.5, 8.2, 9.5.1, 9.9.1, 10.2, 10.3, 12.2, 14.2, 14.3.1, 15.1.3 Insurance, Effective Date of Extensions of Time 8.2.2, 11.1.2 3.2.4, 3.7.4, 5.2.3, 7.2.1, 7.3, 7.4.1, 9.5.1, 9.7.1, Insurance, Loss of Use 10.3.2, 10.4.1, 14.3, 15.1.5, 15.2.5 11.3.3 Failure of Payment Insurance, Owner's Liability 9.5.1.3, 9.7, 9.10.2, 13.6, 14.1.1.3, 14.2.1.2 11.2 Faulty Work Insurance, Property (See Defective or Nonconforming Work) 10.2.5, 11.3 **Final Completion and Final Payment** Insurance, Stored Materials 4.2.1, 4.2.9, 9.8.2, 9.10, 11.1.2, 11.1.3, 11.3.1, 11.3.5, 9.3.2, 11.4.1.4 12.3.1, 14.2.4, 14.4.3 INSURANCE AND BONDS Financial Arrangements, Owner's 2.2.1, 13.2.2, 14.1.1.4 Insurance Companies, Consent to Partial Occupancy Fire and Extended Coverage Insurance 9.9.1, 11.4.1.5 11.3.1.1 Insurance Companies, Settlement with **GENERAL PROVISIONS** 11.4.10 Intent of the Contract Documents **Governing Law** 1.2.1, 4.2.7, 4.2.12, 4.2.13, 7.4 Interest Guarantees (See Warranty) 13.6 **Hazardous Materials** Interpretation 10.2.4, 10.3 1.2.3, 1.4, 4.1.1, 5.1, 6.1.2, 15.1.1 Identification of Subcontractors and Suppliers Interpretations, Written 5.2.1 4.2.11, 4.2.12, 15.1.4 Indemnification Judgment on Final Award 3.17.1, 3.18, 9.10.2, 10.3.3, 10.3.5, 10.3.6, 11.3.1.2, 15.4.2 11.3.7 Labor and Materials, Equipment Information and Services Required of the Owner 1.1.3, 1.1.6, 3.4, 3.5.1, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1, 2.1.2, 2.2, 3.2.2, 3.12.4, 3.12.10, 6.1.3, 6.1.4, 6.2.5, 4.2.6, 4.2.7, 5.2.1, 6.2.1, 7.3.7, 9.3.2, 9.3.3, 9.5.1.3, 9.6.1, 9.6.4, 9.9.2, 9.10.3, 10.3.3, 11.2.1, 11.4, 13.5.1, 9.10.2, 10.2.1, 10.2.4, 14.2.1.1, 14.2.1.2 13.5.2, 14.1.1.4, 14.1.4, 15.1.3 Labor Disputes **Initial Decision** 8.3.1 15.2 Laws and Regulations Initial Decision Maker, Definition of 1.5, 3.2.3, 3.6, 3.7, 3.12.10, 3.13.1, 4.1.1, 9.6.4, 9.9.1,10.2.2, 11.1.1, 11.3, 13.1.1, 13.4, 13.5.1, 13.5.2, Initial Decision Maker, Decisions 13.6.1, 14, 15.2.8, 15.4 14.2.2, 14.2.4, 15.2.1, 15.2.2, 15.2.3, 15.2.4, 15.2.5 Liens Initial Decision Maker, Extent of Authority 2.1.2, 9.3.3, 9.10.2, 9.10.4, 15.2.8 14.2.2, 14.2.4, 15.1.3, 15.2.1, 15.2.2, 15.2.3, 15.2.4, Limitations, Statutes of 15.2.5 12.2.5, 13.7, 15.4.1.1 Injury or Damage to Person or Property Limitations of Liability 10.2.8, 10.4.1 2.3.1, 3.2.2, 3.5.1, 3.12.10, 3.17.1, 3.18.1, 4.2.6, Inspections 4.2.7, 4.2.12, 6.2.2, 9.4.2, 9.6.4, 9.6.7, 10.2.5, 10.3.3, 3.1.3, 3.3.3, 3.7.1, 4.2.2, 4.2.6, 4.2.9, 9.4.2, 9.8.3, 11.1.2, 11.2.1, 11.3.7, 12.2.5, 13.4.2 9.9.2, 9.10.1, 12.2.1, 13.5 Limitations of Time Instructions to Bidders 2.1.2, 2.2, 2.4, 3.2.2, 3.10, 3.11, 3.12.5, 3.15.1, 4.2.7, 1.1.1 5.2, 5.3.1, 5.4.1, 6.2.4, 7.3, 7.4, 8.2, 9.2.1, 9.3.1, Instructions to the Contractor 9.3.3, 9.4.1, 9.5, 9.6, 9.7.1, 9.8, 9.9, 9.10, 11.1.3, 3.2.4, 3.3.1, 3.8.1, 5.2.1, 7, 8.2.2, 12, 13.5.2 11.3.1.5, 11.3.6, 11.3.10, 12.2, 13.5, 13.7, 14, 15 Instruments of Service, Definition of Loss of Use Insurance 1.1.7 11.3.3

Init.

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5

Material Suppliers 2.1.2, 2.2, 3.2.2, 3.12.10, 6.1.3, 6.1.4, 6.2.5, 9.3.2, 1.5, 3.12.1, 4.2.4, 4.2.6, 5.2.1, 9.3, 9.4.2, 9.6, 9.10.5 9.6.1, 9.6.4, 9.9.2, 9.10.3, 10.3.3, 11.2.1, 11.3, 13.5.1, Materials, Hazardous 13.5.2, 14.1.1.4, 14.1.4, 15.1.3 10.2.4, 10.3 Owner's Authority Materials, Labor, Equipment and 1.5, 2.1.1, 2.3.1, 2.4.1, 3.4.2, 3.8.1, 3.12.10, 3.14.2, 1.1.3, 1.1.6, 1.5.1, 3.4.1, 3.5.1, 3.8.2, 3.8.3, 3.12, 4.1.2, 4.1.3, 4.2.4, 4.2.9, 5.2.1, 5.2.4, 5.4.1, 6.1, 6.3.1, 3.13.1, 3.15.1, 4.2.6, 4.2.7, 5.2.1, 6.2.1, 7.3.7, 9.3.2, 7.2.1, 7.3.1, 8.2.2, 8.3.1, 9.3.1, 9.3.2, 9.5.1, 9.6.4, 9.3.3, 9.5.1.3, 9.10.2, 10.2.1.2, 10.2.4, 14.2.1.1, 9.9.1, 9.10.2, 10.3.2, 11.1.3, 11.3.3, 11.3.10, 12.2.2, 14.2.1.2 12.3.1, 13.2.2, 14.3, 14.4, 15.2.7 Means, Methods, Techniques, Sequences and Owner's Financial Capability Procedures of Construction 2.2.1, 13.2.2, 14.1.1.4 3.3.1, 3.12.10, 4.2.2, 4.2.7, 9.4.2 Owner's Liability Insurance Mechanic's Lien 11.2 2.1.2, 15.2.8 Owner's Loss of Use Insurance Mediation 11.3.3 8.3.1, 10.3.5, 10.3.6, 15.2.1, 15.2.5, 15.2.6, 15.3, Owner's Relationship with Subcontractors 1.1.2, 5.2, 5.3, 5.4, 9.6.4, 9.10.2, 14.2.2 Minor Changes in the Work Owner's Right to Carry Out the Work 1.1.1, 3.12.8, 4.2.8, 7.1, 7.4 2.4, 14.2.2 MISCELLANEOUS PROVISIONS Owner's Right to Clean Up Modifications, Definition of Owner's Right to Perform Construction and to 1.1.1 **Award Separate Contracts** Modifications to the Contract 1.1.1, 1.1.2, 3.11, 4.1.2, 4.2.1, 5.2.3, 7, 8.3.1, 9.7.1, Owner's Right to Stop the Work 10.3.2, 11.3.1 Mutual Responsibility Owner's Right to Suspend the Work Nonconforming Work, Acceptance of Owner's Right to Terminate the Contract 9.6.6, 9.9.3, 12.3 Nonconforming Work, Rejection and Correction of Ownership and Use of Drawings, Specifications 2.3.1, 2.4.1, 3.5.1, 4.2.6, 6.2.4, 9.5.1, 9.8.2, 9.9.3, and Other Instruments of Service 9.10.4, 12.2.1 1.1.1, 1.1.6, 1.1.7, **1.5**, 2.2.5, 3.2.2, 3.11.1, 3.17.1, Notice 4.2.12, 5.3.1 2.2.1, 2.3.1, 2.4.1, 3.2.4, 3.3.1, 3.7.2, 3.12.9, 5.2.1, Partial Occupancy or Use 9.7.1, 9.10, 10.2.2, 11.1.3, 11.4.6, 12.2.2.1, 13.3, 9.6.6, **9.9**, 11.3.1.5 13.5.1, 13.5.2, 14.1, 14.2, 15.2.8, 15.4.1 Patching, Cutting and Notice, Written 3.14, 6.2.5 2.3.1, 2.4.1, 3.3.1, 3.9.2, 3.12.9, 3.12.10, 5.2.1, 9.7.1, Patents 9.10, 10.2.2, 10.3, 11.1.3, 11.3.6, 12.2.2.1, 13.3, 14, 3.17 15.2.8, 15.4.1 Payment, Applications for **Notice of Claims** 4.2.5, 7.3.9, 9.2.1, 9.3, 9.4, 9.5, 9.6.3, 9.7.1, 9.8.5, 3.7.4, 4.5, 10.2.8, 15.1.2, 15.4 9.10.1, 14.2.3, 14.2.4, 14.4.3 Notice of Testing and Inspections Payment, Certificates for 13.5.1, 13.5.2 4.2.5, 4.2.9, 9.3.3, 9.4, 9.5, 9.6.1, 9.6.6, 9.7.1, 9.10.1, Observations, Contractor's 9.10.3, 13.7, 14.1.1.3, 14.2.4 3.2, 3.7.4 Payment, Failure of Occupancy 9.5.1.3, 9.7, 9.10.2, 13.6, 14.1.1.3, 14.2.1.2 2.2.2, 9.6.6, 9.8, 11.3.1.5 Payment, Final Orders, Written 4.2.1, 4.2.9, 9.8.2, 9.10, 11.1.2, 11.1.3, 11.4.1, 11.4.5, 1.1.1, 2.3, 3.9.2, 7, 8.2.2, 11.3.9, 12.1, 12.2.2.1, 12.3.1, 13.7, 14.2.4, 14.4.3 13.5.2, 14.3.1 Payment Bond, Performance Bond and OWNER 7.3.7.4, 9.6.7, 9.10.3, 11.4.9, 11.4 Payments, Progress Owner, Definition of 9.3, 9.6, 9.8.5, 9.10.3, 13.6, 14.2.3, 15.1.3 PAYMENTS AND COMPLETION Owner, Information and Services Required of the

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Payments to Subcontractors **Rights and Remedies** 5.4.2, 9.5.1.3, 9.6.2, 9.6.3, 9.6.4, 9.6.7, 11.4.8, 1.1.2, 2.3, 2.4, 3.5.1, 3.7.4, 3.15.2, 4.2.6, 4.5, 5.3, 5.4, 14.2.1.2 6.1, 6.3, 7.3.1, 8.3, 9.5.1, 9.7, 10.2.5, 10.3, 12.2.2, PCB 12.2.4, 13.4, 14, 15.4 10.3.1 Royalties, Patents and Copyrights Performance Bond and Payment Bond 3.17 7.3.7.4, 9.6.7, 9.10.3, 11.4.9, 11.4 Rules and Notices for Arbitration Permits, Fees, Notices and Compliance with Laws 15.4.1 2.2.2, 3.7, 3.13, 7.3.7.4, 10.2.2 Safety of Persons and Property PERSONS AND PROPERTY, PROTECTION 10.2, 10.4 OF Safety Precautions and Programs 10 3.3.1, 4.2.2, 4.2.7, 5.3.1, 10.1, 10.2, 10.4 Polychlorinated Biphenyl Samples, Definition of 10.3.1 3.12.3 Product Data, Definition of Samples, Shop Drawings, Product Data and 3.11, 3.12, 4.2.7 Product Data and Samples, Shop Drawings Samples at the Site, Documents and 3.11, 3.12, 4.2.7 3.11 **Progress and Completion** Schedule of Values 4.2.2, 8.2, 9.8, 9.9.1, 14.1.4, 15.1.3 9.2, 9.3.1 **Progress Payments** Schedules, Construction 9.3, 9.6, 9.8.5, 9.10.3, 13.6, 14.2.3, 15.1.3 1.4.1.2, 3.10, 3.12.1, 3.12.2, 6.1.3, 15.1.5.2 Project, Definition of the Separate Contracts and Contractors 1.1.4 1.1.4, 3.12.5, 3.14.2, 4.2.4, 4.2.7, 6, 8.3.1, 11.4.7, **Project Representatives** 12.1.2 4.2.10 Shop Drawings, Definition of **Property Insurance** 3.12.1 10.2.5, 11.3 Shop Drawings, Product Data and Samples PROTECTION OF PERSONS AND PROPERTY 3.11, 3.12, 4.2.7 Site, Use of Regulations and Laws 3.13, 6.1.1, 6.2.1 1.5, 3.2.3, 3.6, 3.7, 3.12.10, 3.13, 4.1.1, 9.6.4, 9.9.1, Site Inspections 10.2.2, 11.1, 11.4, 13.1, 13.4, 13.5.1, 13.5.2, 13.6, 14, 3.2.2, 3.3.3, 3.7.1, 3.7.4, 4.2, 9.4.2, 9.10.1, 13.5 15.2.8, 15.4 Site Visits, Architect's Rejection of Work 3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.5.1, 9.9.2, 9.10.1, 13.5 3.5.1, 4.2.6, 12.2.1 Special Inspections and Testing Releases and Waivers of Liens 4.2.6, 12.2.1, 13.5 9.10.2 Specifications, Definition of the Representations 3.2.1, 3.5.1, 3.12.6, 6.2.2, 8.2.1, 9.3.3, 9.4.2, 9.5.1, Specifications, The 9.8.2, 9.10.1 1.1.1, **1.1.6**, 1.2.2, 1.5, 3.11, 3.12.10, 3.17, 4.2.14 Representatives Statute of Limitations 2.1.1, 3.1.1, 3.9, 4.1.1, 4.2.1, 4.2.2, 4.2.10, 5.1.1, 13.7, 15.4.1.1 5.1.2, 13.2.1 Stopping the Work Responsibility for Those Performing the Work 2.3, 9.7, 10.3, 14.1 3.3.2, 3.18, 4.2.3, 5.3.1, 6.1.3, 6.2, 6.3, 9.5.1, 10 Stored Materials Retainage 6.2.1, 9.3.2, 10.2.1.2, 10.2.4, 11.4.1.4 9.3.1, 9.6.2, 9.8.5, 9.9.1, 9.10.2, 9.10.3 Subcontractor, Definition of Review of Contract Documents and Field 5.1.1 **Conditions by Contractor SUBCONTRACTORS** 3.2, 3.12.7, 6.1.3 Review of Contractor's Submittals by Owner and Subcontractors, Work by Architect 1.2.2, 3.3.2, 3.12.1, 4.2.3, 5.2.3, 5.3, 5.4, 9.3.1.2, 3.10.1, 3.10.2, 3.11, 3.12, 4.2, 5.2, 6.1.3, 9.2, 9.8.2 9.6.7 Review of Shop Drawings, Product Data and **Subcontractual Relations** Samples by Contractor **5.3**, 5.4, 9.3.1.2, 9.6, 9.10, 10.2.1, 11.4.7, 11.4.8, 3.12 14.1, 14.2.1

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Submittals 3.1.3, 3.3.3, 4.2.2, 4.2.6, 4.2.9, 9.4.2, 9.8.3, 9.9.2, 3.10, 3.11, 3.12, 4.2.7, 5.2.1, 5.2.3, 7.3.7, 9.2, 9.3, 9.10.1, 10.3.2, 11.4.1.1, 12.2.1, 13.5 9.8, 9.9.1, 9.10.2, 9.10.3, 11.1.3 TIME Submittal Schedule 8 3.10.2, 3.12.5, 4.2.7 Time, Delays and Extensions of Subrogation, Waivers of 3.2.4, 3.7.4, 5.2.3, 7.2.1, 7.3.1, 7.4.1, 8.3, 9.5.1, 9.7.1, 6.1.1, 11.4.5, 11.3.7 10.3.2, 10.4.1, 14.3.2, 15.1.5, 15.2.5 **Substantial Completion** Time Limits 4.2.9, 8.1.1, 8.1.3, 8.2.3, 9.4.2, 9.8, 9.9.1, 9.10.3, 2.1.2, 2.2, 2.4, 3.2.2, 3.10, 3.11, 3.12.5, 3.15.1, 4.2, 12.2, 13.7 4.4, 4.5, 5.2, 5.3, 5.4, 6.2.4, 7.3, 7.4, 8.2, 9.2, 9.3.1, Substantial Completion, Definition of 9.3.3, 9.4.1, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 11.1.3, 9.8.1 11.4.1.5, 11.4.6, 11.4.10, 12.2, 13.5, 13.7, 14, 15.1.2, Substitution of Subcontractors 15.4 5.2.3, 5.2.4 Time Limits on Claims Substitution of Architect 3.7.4, 10.2.8, 13.7, 15.1.2 4.1.3 Title to Work Substitutions of Materials 9.3.2, 9.3.3 3.4.2, 3.5.1, 7.3.8 Transmission of Data in Digital Form Sub-subcontractor, Definition of 5.1.2 UNCOVERING AND CORRECTION OF Subsurface Conditions WORK 3.7.4 12 Successors and Assigns Uncovering of Work 13.2 Superintendent Unforeseen Conditions, Concealed or Unknown 3.9, 10.2.6 3.7.4, 8.3.1, 10.3 **Supervision and Construction Procedures Unit Prices** 1.2.2, 3.3, 3.4, 3.12.10, 4.2.2, 4.2.7, 6.1.3, 6.2.4, 7.3.3.2, 7.3.4 7.1.3, 7.3.7, 8.2, 8.3.1, 9.4.2, 10, 12, 14, 15.1.3 Use of Documents Surety 1.1.1, 1.5, 2.2.5, 3.12.6, 5.3 5.4.1.2, 9.8.5, 9.10.2, 9.10.3, 14.2.2, 15.2.7 Use of Site Surety, Consent of **3.13**, 6.1.1, 6.2.1 9.10.2, 9.10.3 Values, Schedule of Surveys 9.2, 9.3.1 2.2.3 Waiver of Claims by the Architect Suspension by the Owner for Convenience 13.4.2 Waiver of Claims by the Contractor Suspension of the Work 9.10.5, 11.4.7, 13.4.2, 15.1.6 5.4.2, 14.3 Waiver of Claims by the Owner Suspension or Termination of the Contract 9.9.3, 9.10.3, 9.10.4, 11.4.3, 11.4.5, 11.4.7, 12.2.2.1, 5.4.1.1, 11.4.9, 14 13.4.2, 14.2.4, 15.1.6 Taxes Waiver of Consequential Damages 3.6, 3.8.2.1, 7.3.7.4 14.2.4, 15.1.6 Termination by the Contractor Waiver of Liens 14.1, 15.1.6 9.10.2, 9.10.4 Termination by the Owner for Cause Waivers of Subrogation 5.4.1.1, 14.2, 15.1.6 6.1.1, 11.4.5, **11.3.7** Termination by the Owner for Convenience Warranty 14.4 3.5, 4.2.9, 9.3.3, 9.8.4, 9.9.1, 9.10.4, 12.2.2, 13.7.1 Termination of the Architect Weather Delays 4.1.3 15.1.5.2 Termination of the Contractor Work, Definition of 14.2.2 1.1.3 TERMINATION OR SUSPENSION OF THE Written Consent CONTRACT 1.5.2, 3.4.2, 3.7.4, 3.12.8, 3.14.2, 4.1.2, 9.3.2, 9.8.5, 9.9.1, 9.10.2, 9.10.3, 11.4.1, 13.2, 13.4.2, 15.4.4.2 **Tests and Inspections** Written Interpretations

Init.

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4.2.11, 4.2.12 Written Notice 2.3, 2.4, 3.3.1, 3.9, 3.12.9, 3.12.10, 5.2.1, 8.2.2, 9.7,9.10, 10.2.2, 10.3, 11.1.3, 11.4.6, 12.2.2, 12.2.4, 13.3, 14, 15.4.1

Written Orders 1.1.1, 2.3, 3.9, 7, 8.2.2, 11.4.9, 12.1, 12.2, 13.5.2,14.3.1, 15.1.2



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9

ARTICLE 1 GENERAL PROVISIONS § 1.1 BASIC DEFINITIONS

§ 1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding requirements.

§ 1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 THE WORK

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 THE PROJECT

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by separate contractors.

§ 1.1.5 THE DRAWINGS

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

§ 1.1.6 THE SPECIFICATIONS

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 INSTRUMENTS OF SERVICE

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 INITIAL DECISION MAKER

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2 and certify termination of the Agreement under Section 14.2.2.

§ 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 CAPITALIZATION

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 INTERPRETATION

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and will retain all common law, statutory and other reserved rights, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

§ 1.6 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Agreement or the Contract Documents.

ARTICLE 2 OWNER

§ 2.1 GENERAL

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.

§ 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

§ 2.2.1 Prior to commencement of the Work, the Contractor may request in writing that the Owner provide reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. Thereafter, the Contractor may only request such evidence if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) a change in the Work materially changes the Contract Sum; or (3) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due. The Owner shall furnish such evidence as a condition precedent to commencement or continuation of the Work or

the portion of the Work affected by a material change. After the Owner furnishes the evidence, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

- § 2.2.2 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.
- § 2.2.3 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.
- § 2.2.4 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.
- § 2.2.5 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.3 OWNER'S RIGHT TO STOP THE WORK

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.4 OWNER'S RIGHT TO CARRY OUT THE WORK

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect or failure. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

ARTICLE 3 CONTRACTOR § 3.1 GENERAL

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

- § 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.
- § 3.1.3 The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.2.3, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall make Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely written notice to the Owner and Architect and shall not proceed with that portion of the Work without further written instructions from the Architect. If the Contractor is then instructed to proceed with the required means, methods, techniques, sequences or procedures without acceptance of changes proposed by the Contractor, the Owner shall be solely responsible for any loss or damage arising solely from those Owner-required means, methods, techniques, sequences or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 LABOR AND MATERIALS

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other

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facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work authorized by the Architect in accordance with Sections 3.12.8 or 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.5 WARRANTY

The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.6 TAXES

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 PERMITS, FEES, NOTICES, AND COMPLIANCE WITH LAWS

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions. If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature, that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 21 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend an equitable adjustment in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor in writing, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may proceed as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume

the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 ALLOWANCES

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- .2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
- whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.
- § 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 SUPERINTENDENT

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the name and qualifications of a proposed superintendent. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to the proposed superintendent or (2) that the Architect requires additional time to review. Failure of the Architect to reply within the 14 day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall prepare and submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.2 The Contractor shall prepare a submittal schedule, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, and shall submit the schedule(s) for the Architect's approval. The Architect's approval shall not unreasonably be delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 DOCUMENTS AND SAMPLES AT THE SITE

The Contractor shall maintain at the site for the Owner one copy of the Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and one copy of approved Shop Drawings, Product Data, Samples and similar required submittals. These shall be available to the Architect and shall be delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

§ 3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

- § 3.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.
- § 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.
- § 3.12.3 Samples are physical examples that illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.
- § 3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. Their purpose is to demonstrate the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.
- § 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors.
- § 3.12.6 By submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.
- § 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect.
- § 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof.
- § 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such written notice, the Architect's approval of a resubmission shall not apply to such revisions.
- § 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. The Contractor shall not be

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required to provide professional services in violation of applicable law. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor all performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review, approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Contractor shall not be responsible for the adequacy of the performance and design criteria specified in the Contract Documents.

§ 3.13 USE OF SITE

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 CUTTING AND PATCHING

§ 3.14.1 The Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

§ 3.15 CLEANING UP

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 ACCESS TO WORK

The Contractor shall provide the Owner and Architect access to the Work in preparation and progress wherever located.

§ 3.17 ROYALTIES, PATENTS AND COPYRIGHTS

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Architect.

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§ 3.18 INDEMNIFICATION

§ 3.18.1 To the fullest extent permitted by law the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 GENERAL

§ 4.1.1 The Owner shall retain an architect lawfully licensed to practice architecture or an entity lawfully practicing architecture in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 4.1.2 Duties, responsibilities and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Contractor and Architect. Consent shall not be unreasonably withheld.

§ 4.1.3 If the employment of the Architect is terminated, the Owner shall employ a successor architect as to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 4.2 ADMINISTRATION OF THE CONTRACT

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate For Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents, except as provided in Section 3.3.1.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents and from the most recent construction schedule submitted by the Contractor, and (2) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 COMMUNICATIONS FACILITATING CONTRACT ADMINISTRATION

Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the Owner and Contractor shall endeavor to communicate with each other through the Architect about matters arising out of or relating to the Contract. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner.

- § 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.
- § 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.
- § 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5 and 3.12. The Architect's review shall not constitute approval of safety precautions or, unless otherwise specifically stated by the Architect, of any construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.
- § 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may authorize minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.
- § 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.
- § 4.2.10 If the Owner and Architect agree, the Architect will provide one or more project representatives to assist in carrying out the Architect's responsibilities at the site. The duties, responsibilities and limitations of authority of such project representatives shall be as set forth in an exhibit to be incorporated in the Contract Documents.
- § 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.
- § 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either and will not be liable for results of interpretations or decisions rendered in good faith.
- § 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS § 5.1 DEFINITIONS

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

§ 5.2.1 Unless otherwise stated in the Contract Documents or the bidding requirements, the Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to any such proposed person or entity or (2) that the Architect requires additional time for review. Failure of the Owner or Architect to reply within the 14 day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person or entity previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 SUBCONTRACTUAL RELATIONS

By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by these Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may

be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

- assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor in writing; and
- 2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon such assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

§ 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Contractor claims that delay or additional cost is involved because of such action by the Owner, the Contractor shall make such Claim as provided in Article 15.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces, the Owner shall be deemed to be subject to the same obligations and to have the same rights that apply to the Contractor under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6 and Articles 10, 11 and 12.

§ 6.2 MUTUAL RESPONSIBILITY

§ 6.2.1 The Contractor shall afford the Owner and separate contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Architect apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Contractor so to report shall constitute an acknowledgment that

the Owner's or separate contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work, except as to defects not then reasonably discoverable.

- § 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a separate contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a separate contractor's delays, improperly timed activities, damage to the Work or defective construction.
- § 6.2.4 The Contractor shall promptly remedy damage the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or separate contractors as provided in Section 10.2.5.
- § 6.2.5 The Owner and each separate contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 OWNER'S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 GENERAL

- § 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.
- § 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor and Architect; a Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor; an order for a minor change in the Work may be issued by the Architect alone.
- § 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Construction Change Directive or order for a minor change in the Work.

§ 7.2 CHANGE ORDERS

- § 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor and Architect stating their agreement upon all of the following:
 - .1 The change in the Work;
 - .2 The amount of the adjustment, if any, in the Contract Sum; and
 - .3 The extent of the adjustment, if any, in the Contract Time.

§ 7.3 CONSTRUCTION CHANGE DIRECTIVES

- § 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and Contract Time being adjusted accordingly.
- § 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.
- § 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:
 - .1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
 - .2 Unit prices stated in the Contract Documents or subsequently agreed upon;
 - .3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or

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.4 As provided in Section 7.3.7.

§ 7.3.4 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 7.3.5 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.6 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.7 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the method and the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.7 shall be limited to the following:

- Costs of labor, including social security, old age and unemployment insurance, fringe benefits required by agreement or custom, and workers' compensation insurance;
- .2 Costs of materials, supplies and equipment, including cost of transportation, whether incorporated or consumed;
- .3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;
- .4 Costs of premiums for all bonds and insurance, permit fees, and sales, use or similar taxes related to the Work; and
- .5 Additional costs of supervision and field office personnel directly attributable to the change.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 MINOR CHANGES IN THE WORK

The Architect has authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes will be effected by written order signed by the Architect and shall be binding on the Owner and Contractor.

ARTICLE 8 TIME

§ 8.1 DEFINITIONS

- § 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.
- § 8.1.2 The date of commencement of the Work is the date established in the Agreement.
- § 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.
- § 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 PROGRESS AND COMPLETION

- § 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.
- § 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance.
- § 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 DELAYS AND EXTENSIONS OF TIME

- § 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by an act or neglect of the Owner or Architect, or of an employee of either, or of a separate contractor employed by the Owner; or by changes ordered in the Work; or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control; or by delay authorized by the Owner pending mediation and arbitration; or by other causes that the Architect determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Architect may determine.
- § 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.
- § 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 CONTRACT SUM

The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.2 SCHEDULE OF VALUES

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit to the Architect, before the first Application for Payment, a schedule of values allocating the entire Contract Sum to the various portions of the Work and prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 9.3 APPLICATIONS FOR PAYMENT

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2., for completed portions of the Work. Such application shall be notarized, if required, and supported by such data substantiating the Contractor's right to payment as the Owner or Architect may require, such as copies of requisitions from Subcontractors and material suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or material supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage and transportation to the site for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

§ 9.4 CERTIFICATES FOR PAYMENT

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Architect determines is properly due, or notify the Contractor and Owner in writing of the Architect's reasons for withholding certification in whole or in part as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data comprising the Application for Payment, that, to the best of the Architect's knowledge, information and belief, the Work has progressed to the point indicated and that the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, (2) reviewed construction means, methods, techniques, sequences or procedures, (3) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 DECISIONS TO WITHHOLD CERTIFICATION

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- .1 defective Work not remedied;
- .2 third party claims filed or reasonable evidence indicating probable filing of such claims unless security acceptable to the Owner is provided by the Contractor;

- .3 failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- 5 damage to the Owner or a separate contractor;
- reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 repeated failure to carry out the Work in accordance with the Contract Documents.
- § 9.5.2 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.
- § 9.5.3 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or material or equipment suppliers to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Architect will reflect such payment on the next Certificate for Payment.

§ 9.6 PROGRESS PAYMENTS

- § 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.
- § 9.6.2 The Contractor shall pay each Subcontractor no later than seven days after receipt of payment from the Owner the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.
- § 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.
- § 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.
- § 9.6.5 Contractor payments to material and equipment suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.
- § 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.
- § 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors and suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, shall create any fiduciary liability or tort liability on the part of the Contractor for breach of trust or shall entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.7 FAILURE OF PAYMENT

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' written notice to the Owner and Architect,

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stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 SUBSTANTIAL COMPLETION

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to such Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 9.9 PARTIAL OCCUPANCY OR USE

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer as required under Section 11.3.1.5 and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 FINAL COMPLETION AND FINAL PAYMENT

§ 9.10.1 Upon receipt of the Contractor's written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection and, when the

Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- .1 liens, Claims, security interests or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents; or
- .3 terms of special warranties required by the Contract Documents.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY § 10.1 SAFETY PRECAUTIONS AND PROGRAMS

The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 SAFETY OF PERSONS AND PROPERTY

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Subsubcontractors; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

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§ 10.2.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.

§ 10.2.3 The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3, except damage or loss attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 INJURY OR DAMAGE TO PERSON OR PROPERTY

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 HAZARDOUS MATERIALS

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Architect in writing.

§ 10.3.2 Upon receipt of the Contractor's written notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shut-down, delay and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall indemnify the Owner for the cost and expense the Owner incurs (1) for remediation of a material or substance the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall indemnify the Contractor for all cost and expense thereby incurred.

§ 10.4 EMERGENCIES

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 CONTRACTOR'S LIABILITY INSURANCE

§ 11.1.1 The Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect the Contractor from claims set forth below which may arise out of or result from the Contractor's operations and completed operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

- .1 Claims under workers' compensation, disability benefit and other similar employee benefit acts that are applicable to the Work to be performed;
- .2 Claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;
- .3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees;
- .4 Claims for damages insured by usual personal injury liability coverage;
- .5 Claims for damages, other than to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom;
- .6 Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle;
- .7 Claims for bodily injury or property damage arising out of completed operations; and
- .8 Claims involving contractual liability insurance applicable to the Contractor's obligations under Section 3.18.

§ 11.1.2 The insurance required by Section 11.1.1 shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment, and, with respect to the Contractor's completed operations coverage, until the expiration of the period for correction

of Work or for such other period for maintenance of completed operations coverage as specified in the Contract Documents.

§ 11.1.3 Certificates of insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work and thereafter upon renewal or replacement of each required policy of insurance. These certificates and the insurance policies required by this Section 11.1 shall contain a provision that coverages afforded under the policies will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment as required by Section 9.10.2 and thereafter upon renewal or replacement of such coverage until the expiration of the time required by Section 11.1.2. Information concerning reduction of coverage on account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness.

§ 11.1.4 The Contractor shall cause the commercial liability coverage required by the Contract Documents to include (1) the Owner, the Architect and the Architect's Consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's completed operations.

§ 11.2 OWNER'S LIABILITY INSURANCE

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance.

§ 11.3 PROPERTY INSURANCE

§ 11.3.1 Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurable interest in the property required by this Section 11.3 to be covered, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors and Subsubcontractors in the Project.

§ 11.3.1.1 Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, falsework, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss.

§ 11.3.1.2 If the Owner does not intend to purchase such property insurance required by the Contract and with all of the coverages in the amount described above, the Owner shall so inform the Contractor in writing prior to commencement of the Work. The Contractor may then effect insurance that will protect the interests of the Contractor, Subcontractors and Sub-subcontractors in the Work, and by appropriate Change Order the cost thereof shall be charged to the Owner. If the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain insurance as described above, without so notifying the Contractor in writing, then the Owner shall bear all reasonable costs properly attributable thereto.

§ 11.3.1.3 If the property insurance requires deductibles, the Owner shall pay costs not covered because of such deductibles.

§ 11.3.1.4 This property insurance shall cover portions of the Work stored off the site, and also portions of the Work in transit.

§ 11.3.1.5 Partial occupancy or use in accordance with Section 9.9 shall not commence until the insurance company or companies providing property insurance have consented to such partial occupancy or use by endorsement or

otherwise. The Owner and the Contractor shall take reasonable steps to obtain consent of the insurance company or companies and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.

§ 11.3.2 BOILER AND MACHINERY INSURANCE

The Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor, Subcontractors and Sub-subcontractors in the Work, and the Owner and Contractor shall be named insureds.

§ 11.3.3 LOSS OF USE INSURANCE

The Owner, at the Owner's option, may purchase and maintain such insurance as will insure the Owner against loss of use of the Owner's property due to fire or other hazards, however caused. The Owner waives all rights of action against the Contractor for loss of use of the Owner's property, including consequential losses due to fire or other hazards however caused.

§ 11.3.4 If the Contractor requests in writing that insurance for risks other than those described herein or other special causes of loss be included in the property insurance policy, the Owner shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.

§ 11.3.5 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, the Owner shall waive all rights in accordance with the terms of Section 11.3.7 for damages caused by fire or other causes of loss covered by this separate property insurance. All separate policies shall provide this waiver of subrogation by endorsement or otherwise.

§ 11.3.6 Before an exposure to loss may occur, the Owner shall file with the Contractor a copy of each policy that includes insurance coverages required by this Section 11.3. Each policy shall contain all generally applicable conditions, definitions, exclusions and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire, and that its limits will not be reduced, until at least 30 days' prior written notice has been given to the Contractor.

§ 11.3.7 WAIVERS OF SUBROGATION

The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, subsubcontractors, agents and employees, each of the other, and (2) the Architect, Architect's consultants, separate contractors described in Article 6, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to this Section 11.3 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as appropriate, shall require of the Architect, Architect's consultants, separate contractors described in Article 6, if any, and the subcontractors, subsubcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

§ 11.3.8 A loss insured under the Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.3.10. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner.

§ 11.3.9 If required in writing by a party in interest, the Owner as fiduciary shall, upon occurrence of an insured loss, give bond for proper performance of the Owner's duties. The cost of required bonds shall be charged against proceeds received as fiduciary. The Owner shall deposit in a separate account proceeds so received, which the

Owner shall distribute in accordance with such agreement as the parties in interest may reach, or as determined in accordance with the method of binding dispute resolution selected in the Agreement between the Owner and Contractor. If after such loss no other special agreement is made and unless the Owner terminates the Contract for convenience, replacement of damaged property shall be performed by the Contractor after notification of a Change in the Work in accordance with Article 7.

§ 11.3.10 The Owner as fiduciary shall have power to adjust and settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to the Owner's exercise of this power; if such objection is made, the dispute shall be resolved in the manner selected by the Owner and Contractor as the method of binding dispute resolution in the Agreement. If the Owner and Contractor have selected arbitration as the method of binding dispute resolution, the Owner as fiduciary shall make settlement with insurers or, in the case of a dispute over distribution of insurance proceeds, in accordance with the directions of the arbitrators.

§ 11.4 PERFORMANCE BOND AND PAYMENT BOND

§ 11.4.1 The Owner shall have the right to require the Contractor to furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract.

§ 11.4.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 UNCOVERING OF WORK

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, such costs and the cost of correction shall be at the Contractor's expense unless the condition was caused by the Owner or a separate contractor in which event the Owner shall be responsible for payment of such costs.

§ 12.2 CORRECTION OF WORK

§ 12.2.1 BEFORE OR AFTER SUBSTANTIAL COMPLETION

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 AFTER SUBSTANTIAL COMPLETION

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.4.

- § 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.
- § 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.
- § 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.
- § 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.
- § 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 ACCEPTANCE OF NONCONFORMING WORK

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 GOVERNING LAW

The Contract shall be governed by the law of the place where the Project is located except that, if the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.2 SUCCESSORS AND ASSIGNS

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to covenants, agreements and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

§ 13.3 WRITTEN NOTICE

Written notice shall be deemed to have been duly served if delivered in person to the individual, to a member of the firm or entity, or to an officer of the corporation for which it was intended; or if delivered at, or sent by registered or certified mail or by courier service providing proof of delivery to, the last business address known to the party giving notice.

§ 13.4 RIGHTS AND REMEDIES

§ 13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

§ 13.4.2 No action or failure to act by the Owner, Architect or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

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§ 13.5 TESTS AND INSPECTIONS

§ 13.5.1 Tests, inspections and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating their cost to the Contractor.

§ 13.5.2 If the Architect, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure including those of repeated procedures and compensation for the Architect's services and expenses shall be at the Contractor's expense.

§ 13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.5.5 If the Architect is to observe tests, inspections or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.6 INTEREST

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

§ 13.7 TIME LIMITS ON CLAIMS

The Owner and Contractor shall commence all claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in the Agreement within the time period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all claims and causes of action not commenced in accordance with this Section 13.7.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 TERMINATION BY THE CONTRACTOR

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped:

An act of government, such as a declaration of national emergency that requires all Work to be stopped;

- 3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or
- The Owner has failed to furnish to the Contractor promptly, upon the Contractor's request, reasonable evidence as required by Section 2.2.1.
- § 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, repeated suspensions, delays or interruptions of the entire Work by the Owner as described in Section 14.3 constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.
- § 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' written notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, including reasonable overhead and profit, costs incurred by reason of such termination, and damages.
- § 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Contractor because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' written notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 TERMINATION BY THE OWNER FOR CAUSE

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- .1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- .3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.
- § 14.2.2 When any of the above reasons exist, the Owner, upon certification by the Initial Decision Maker that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:
 - .1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
 - .2 Accept assignment of subcontracts pursuant to Section 5.4; and
 - .3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.
- § 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.
- § 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 SUSPENSION BY THE OWNER FOR CONVENIENCE

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay or interruption as described in Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

- that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Contractor is responsible; or
- .2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- .1 cease operations as directed by the Owner in the notice;
- take actions necessary, or that the Owner may direct, for the protection and preservation of the Work;
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 CLAIMS

§ 15.1.1 DEFINITION

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim.

§ 15.1.2 NOTICE OF CLAIMS

Claims by either the Owner or Contractor must be initiated by written notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party must be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 15.1.3 CONTINUING CONTRACT PERFORMANCE

Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents. The Architect will prepare Change Orders and issue Certificates for Payment in accordance with the decisions of the Initial Decision Maker.

§ 15.1.4 CLAIMS FOR ADDITIONAL COST

If the Contractor wishes to make a Claim for an increase in the Contract Sum, written notice as provided herein shall be given before proceeding to execute the Work. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.5 CLAIMS FOR ADDITIONAL TIME

§ 15.1.5.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, written notice as provided herein shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.5.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction.

§ 15.1.6 CLAIMS FOR CONSEQUENTIAL DAMAGES

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

- damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- .2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.6 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 INITIAL DECISION

§ 15.2.1 Claims, excluding those arising under Sections 10.3, 10.4, 11.3.9, and 11.3.10, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim arising prior to the date final payment is due, unless 30 days have passed after the Claim has been referred to the Initial Decision Maker with no decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of such request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of an initial decision, demand in writing that the other party file for mediation within 60 days of the initial decision. If such a demand is made and the party receiving the demand fails to file for mediation within the time required, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

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§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 MEDIATION

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.6 shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 ARBITRATION

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 CONSOLIDATION OR JOINDER

§ 15.4.4.1 Either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Either party, at its sole discretion, may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an

additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as the Owner and Contractor under this Agreement.



HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-C

SECTION 00 85 10 -DRAWING LIST

1.01 Drawings (All drawings are 24" x 36").

G0-01	COVER SHEET
L1-01	SALEM COMMON SITE PLAN
A1-01	FENCE SEGMENT ELEVATIONS
A1-02	FENCE SEGMENT ELEVATIONS
A1-03	FENCE SEGMENT ELEVATIONS
A1-04	FENCE SEGMENT ELEVATIONS
A1-05	TYPICAL FENCE SEGMENT ELEVATION AND DETAILS
A1-06	TYPICAL FENCE SECTION AND DETAILS

END OF SECTION

CBI Consulting Inc. Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971



GENERAL REQUIREMENTS

DIVISION 01

SECTION 01 01 00

SUMMARY OF WORK

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that the equipment to be furnished complete in every respect, and that this Contractor shall provide all equipment needed and usually furnished in connection with such systems to provide a complete installation. Equipment, materials, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 DESCRIPTION OF WORK - GENERAL

- A. In general, the Contractor shall supply all material, labor, equipment, insurance, temporary protection, tools and appliances necessary for the proper completion of the work as described in the Plans and Specifications, in accordance with good construction practice, and as required by the materials manufacturers.
- B. Supply all shoring and protection necessary to protect the occupants, building area, building systems, and landscape areas. All means and methods are the responsibility of the contractor. The Contractor is solely responsible for safety on the job site.
- C. In general, the work includes, but is not limited to:
 - 1. Carefully disconnect and transport selected fence sections to the shop for renovation and repair. Pad all sections to avoid breakage and scratching.
 - 2. Sandblast all parts of each fence section to remove all paint, rust and scale.
 - 3. Properly dispose of paint and sand blast debris as lead paint. Provide disposal manifest. See Specification Section 02 83 00.

SUMMARY OF WORK 01 01 00 - 1

- 4. Replace missing or damaged pieces of the fence. Cast all new cast-iron to match existing to replace missing parts from existing patterns.
- 5. Straighten the fence so that it stands plumb, level, and true.
- 6. Replace missing or damaged pieces of top rail from mild steel.
- 7. Install new expansion joints at the ends of each top rail as the connection.
- 8. Assemble all the parts into a unified assembly.
- 9. Brush blast the entire assembly to remove any "blush rust".
- 10. Paint the entire fence assembly with a 3-coat high tech paint system including a zinc rich primer (Gray), an epoxy intermediate coat (Red), and a polyurethane top coat (Black). Do not proceed with subsequent coats until the previous coat has been completely covered. Provide minimum mil thickness as recommended by the manufacturer. However, coverage is the measure of completeness of the paint.
- 11. Apply continuous black silicone sealant over the clean, cured painting at the locations noted on the details.
- 12. Carefully pad and protect the finish and transport to the site.
- 13. Carefully install on site to be level, plumb, and true.
- 14. Touch-up the paint finish to the complete satisfaction of the Architect. Excessive damage to the factory finish will be cause for rejection of the work and the fence will be required to be returned and repainted in the shop at no additional cost to the Owner.
- 15. Fence sections to be included in the scope are # 76, 77, 78, 79, 80, 88, 91, 92, 93, 94, 97, 98, and 104.
- 16. Carefully remove and dispose of three (3) existing bollards at Section 78.
- 17. At Section #78, furnish three (3) new bollards and install in the same location as those removed. Replacement bollards shall be Ironsmith "Salem Bollards" (www.ironsmith.com) or approved equal.
- 18. Grind down bolt flush with granite threshold.
- 19. Add Alternate #1 work shall include fence section #89.
- 20. Add Alternate #2 work shall include fence section #90.

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- 21. Add Alternate #3 work shall include fence section #95.
- 21. Add Alternate #4 work shall include fence section #96.
- 22. Add Alternate #5 work shall include fence section #99.
- 23. Add Alternate #6 work shall include fence section #100.
- 24. Add Alternate #7 work shall include fence section #101.
- 25. Add Alternate #8 work shall include fence section #102.
- 26. Add Alternate #9 work shall include fence section #103.
- D. All repair work shall conform with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for the Treatment of Cultural Landscapes.

1.03 INTENT OF THE PROJECT MANUAL

- A. Whenever "Furnish", "Install", or "Provide" is used in the Contract Documents, it shall mean to erect, install, connect, make operative, and supply all labor and materials, including miscellaneous fittings, hardware, and accessories necessary to complete the installation of the specified item.
- B. The scope of work is indicated in the Project Manual. Areas of required work indicated on the drawings are for illustration and are not to be interpreted as representing quantities, exact locations, and/or the extent of work required. The Owner makes no representation of the exact quantities of work required. It shall be the responsibility of the Contractor to do all work to the complete fulfillment of the requirements of the Project Manual.

1.04 ERRORS, OMISSIONS, AND CONFLICTS IN THE PROJECT MANUAL

A. In the case of conflicts in the Drawings and the Specifications noticed by the Contractor, the Architect shall be notified immediately in writing of such errors and/or omissions. In no case shall the Contractor proceed without written authorization from the Architect.

1.05 UNFORESEEN FIELD CONDITIONS

A. In the case of unforeseen field conditions, the Contractor shall notify the Owner and Architect immediately in writing of such conditions. In no case shall the Contractor proceed without written authorization from the Architect. If such unforeseen conditions result in additional expense, the Contractor shall not proceed without the written approval of the Owner.

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PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

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DIVISION 01

GENERAL REQUIREMENTS

SECTION 01 02 00

UNIT PRICES

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. The Unit Prices for items set forth in the Schedule of Unit Prices shall be used to determine adjustments to the Contract Sum when changes in the Work involving said items are made in accordance with Article 8 of the General Conditions and other sections of the Contract Documents.
- B. Unit Prices listed under ADDITIONS have been computed to include net cost plus overhead, profit, and bond and all other charges required to complete the work item.
- C. Unit Prices net cost includes the cost of all labor, materials, equipment, disposal, and all other costs required to complete the work item.
- D. Materials, methods of installation, and definitions of terms set forth under the various Unit Price items in the Schedule of Unit Prices shall be as indicated in the Contract Documents.
- E. Unit costs will <u>not</u> be adjusted if the quantities approved in the field by the Architect vary from the base contract quantities listed in the Project Manual.

1.02. APPLICABILITY OF UNIT PRICES

- A. The payment lines shall be determined in the field by the Architect.
- B. Unit Prices are for more work or less work than is included in the base contract for the various tasks included. Quantities to be included in the base contract are listed in the Unit Price Schedule.
- C. Prior to commencing removal or placement of materials set forth in the Schedule of Unit Prices, the Contractor shall notify the Architect in sufficient time to permit proper measurements to be taken on behalf of the Owner. Only quantities which have been approved in writing by the Architect will be considered in the determination of adjustments to the Contract Sum. Unit costs shall include the pro rata share of all costs associated with doing the work, including staging, insurance, overhead, and profit, as well.
- D. Performance of Work which is not required under the Contract Documents or which is not authorized by Change Order, whether or not such Work item is set forth hereunder as a Unit Price item, shall not be considered cause for extra

payment. The Contractor will be held fully responsible for such unauthorized work, including the performance of all corrective measures required by the Architect.

E. See attached Unit Price Schedule.

UNIT PRICE SCHEDULE

#	DESCRIPTION OF WORK	UNIT	BASE BID QUANTITY	ADD PRICE
1	Complete Fence	EA	See Plans	
2	Entire End Support Post	EA	See Plans	
3	Top of End Support Post	EA	See Plans	
4	Single Picket	EA	See Plans	
5	Top Rail	EA	See Plans	
6	Bottom Rail	EA	See Plans	

- F. *Indicates that the quantity listed is in addition to all the scope areas noted on the plans.
- G. All repair locations will be determined and marked in the field by the Engineer. Repairs will be located at small individual locations throughout the entire scope area. Unit Price work performed without the approval of the Engineer will not be paid for.
- H. The Owner reserves that right to increase or decrease the unit cost quantities without any adjustment in the unit costs.
- I. Unit costs include pro-rata share of Contractor's, general conditions, staging, insurance, bond, overhead, and profit, etc.

END OF SECTION

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CBI Consulting Inc.

DIVISION 01

GENERAL REQUIREMENTS

SECTION 01 03 00

SPECIAL PROJECT PROCEDURES

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be furnished complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually furnished in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 BIDDERS EXAMINATION AND INSPECTION OF EXISTING BUILDING AND SITE

- A. All bidders must inspect the existing site and make their own assessment of the work required to achieve the complete, finished conditions specified in the Contract Documents.
- B. Failure to adequately inspect the site and/or correctly assess existing conditions shall not be cause for additional payment.
- C. Every contractor will be bound by the scope of work of the Contract Documents and shall make the inspections necessary to assure that the bid price includes the complete scope.

1.03 HOURS OF WORK

A. Work may commence at 7:00 A.M. and continue until 5:00 P.M., Monday through Saturday.

B. The contractor shall be completely and fully responsible for the security and safety of the job site at all times.

1.04 CONTRACTOR USE OF THE BUILDINGS, ACCESSIBILITY AND SCHEDULES FOR WORK

A. The work of the Contractor and all Subcontractors shall be performed during the hours of operation as specified herein and in and around areas of the site used while occupied by the Owner and the public. The Contractor shall execute the Work with the least possible disturbance to the use and continuous functioning of the site. The Contractor and each Subcontractor take all necessary measures to assure the safety of the staff, visitors, and the general public. The General Contractor is solely responsible for safety on the job site including securing and making safe all construction areas during construction hours as well as during non-construction hours.

B. Schedule of Work and Site Use

- 1. The Contractor shall schedule the work of this Contract so as to perform and complete the Work of the Contract according to the following schedule. The Contractor shall within seven (7) days of the Notice of Contract Award, submit a schedule to the Owner and Architect for review.
- 2. Between the time period of the general bid due date and Construction Commencement, the Contractor shall take all necessary measures to complete the Work of this Contract. It is expected that the Contractor utilize the time period between the bid date and construction start date to schedule and coordinate the work and work sequence, prepare shop drawings and submittals for approval and order materials. The Owner shall issue a Notice to Proceed. If the work is not complete by the completion date, the Contractor will be subject to liquidated damages.
- 3. The Contractor shall be responsible for providing any and all measures and/or temporary construction required to control the transmission of dust, particles, and fumes from construction activities.
- 4. The Contractor shall be responsible on a daily basis for informing the designated Owner's representative of all persons on-site that day associated with the Work. The Contractor shall establish a daily reporting system of all activities which is acceptable to the Owner.
- 5. The Construction schedule shall indicate the dates for start and completion of each work item or task required with all milestones using a Bar Chart subject to approval by the Architect.

- 6. The Awarding Authority's review of the project construction schedule shall not extend to the accuracy or other matters dealt with in the schedule, including but not limited to whether work is omitted, whether duration of activity is reasonable, the level of labor, materials or equipment, the Contractor's means, methods, techniques, procedures or sequence of construction, or whether the sequence and timing for work remaining are practical. The accuracy, correctness of all work, sequencing, and schedules shall remain the sole responsibility of the Contractor. Neither the Awarding Authority's review of a schedule nor a statement of resubmittal not required shall relieve the Contractor for the responsibility for complying with the contract schedule, adhering to sequences of work, or from completing any omitted work with the Contract Time.
- 7. The Contractor shall provide, erect and maintain barricades with any required egress, guard rails and all other appurtenances required to protect the general public, visitors, staff, and workers while construction is in progress. Safety is the sole responsibility of the Contractor on the job site.
- 8. All work shall be substantially complete in 120 days.

1.05 HOUSEKEEPING AND PROTECTION OF EXISTING CONDITIONS

- A. Maintain the premises in a safe, orderly condition at all times. Protect construction, equipment and other items.
- B. Property Protection: The General Contractor shall take all measures necessary to protect the Owner's property.
- C. Security: The General Contractor shall take every possible precaution to maintain the security of the site. The Contractor shall cooperate with the Owner fully and follow the Owner's directions as issued. The Contractor shall control and restrict access to areas of work to prevent injury to persons and property.
- D. The Contractor shall properly cover, protect and maintain finished surfaces to prevent damage. Replace protective coverings which become wet, torn or ineffective.

E. Finished Surfaces Protection:

- 1. The Contractor shall restrict traffic on finished surfaces to that required to perform the work of this Contract and permit traffic only required to properly complete the Work.
- 2. Effectively protect surfaces to prevent damages to existing substrates and new finishes. Provide temporary walkways and work platforms as needed.

3. Load distribution: The Contractor and any Subcontractor shall not load or permit any part of the structure to be loaded in any manner that will damage the existing structure or endanger the safety of persons or property. Such loads shall include live and dead loads and all moving, vibratory, temporary and impact loads.

F. Correction by the Contractor

1. At no additional cost to the Owner, the General Contractor shall immediately correct all deficiencies, including damages to the site and site surfaces, damages to equipment or systems, damage to adjacent properties, and all other damage caused by the General Contractor or its Subcontractors during the execution of the Work of this Contract. Any and all damages resulting from inadequate, insufficient or defective temporary protections installed by the Contractor during the work of this Contract, shall be corrected by the General Contractor at no additional cost to the Owner.

G. Vehicular Access:

1. Construction vehicles can be driven along the outside paths of the Common where sprinkler heads are not located.

H. Temporary Fencing:

1. A temporary fence is not required.

1.06 REQUIREMENTS RELATED TO BUILDING USERS' FURNISHINGS, EQUIPMENT AND OTHER ITEMS

- A. The General Contractor is responsible for protecting all furnishings, equipment and items from damage (including construction generated dust) during the entire construction period.
- B. The General Contractor shall be responsible for moving and re-setting up all fixed and movable equipment, boxes, and all other items to accomplish the work of both the General Contractor and the Subcontractors in its entirety.

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1.07 DUST, DIRT, AND FUME CONTROL

A. The Contractor shall take all necessary precautions and provide all necessary temporary construction to effectively contain dust, dirt and fumes within the areas of work and within the work limits. Temporary construction shall be provided to effectively prevent dust and dirt from entering areas of the adjacent buildings, satisfying all City, State and Federal laws, codes, and requirements.

1.08 RUBBISH REMOVAL

- A. The Contractor shall remove all rubbish, waste, tools, equipment and appurtenances caused by and used in the execution of the Work; but this shall in no way be construed to relieve the Contractor of his primary responsibility for maintaining the building and Project site clean and free of debris, leaving all work in a clean condition and satisfactory to the Official.
- B. Immediately after unpacking, the Contractor shall collect and remove from the Project site all packing materials, case lumber, excelsior, wrapping and other rubbish.
- C. Rubbish removal shall occur so that trash and debris are contained in closed and secured waste containers.

1.09 SITE DRAINAGE AND PUMPING

- A. The Contractor shall be responsible at all times for proper and sufficient site drainage and shall maintain such drainage during the life of the Contract in a manner acceptable to the Owner and so as not to adversely affect the adjacent areas or adjacent properties.
- B. The Contractor shall provide and maintain all pumps, suction and discharge lines, and power in sufficient number and capacity to keep all excavations, pits, trenches, foundations and the entire property area free from accumulation of water from any source whatsoever at all times and under way and all circumstances and contingencies that may arise.

1.10 SNOW AND ICE REMOVAL

A. The Contractor shall promptly remove all snow and ice which may impede the work, damage the finishes or materials, be detrimental to all/any crafts or trade, or impede trucking, delivery or moving of materials at the site, or prevent adequate drainage of the site or adjoining areas.

1.11 WINTER CONSTRUCTION

- A. The Contractor shall provide protection against damage to materials and work installed in freezing weather, including special heat and coverings to prevent damage by the elements. Therefore, the Contractor is completely responsible for any and all winter conditions protection, including but not limited to: The ground surface, under footings, under pipe lines, under masonry, under concrete, and other work subject to damage shall be protected against freezing or ice formations.
- B. Refer to SECTION 01500--TEMPORARY FACILITIES, for additional requirements applicable to winter construction.

1.12 CLEANING AND POLISHING

- A. The Contractor shall at all times keep the Project site free from accumulation of waste materials or rubbish.
- B. Immediately prior to final inspection, the entire surrounding Project areas shall be thoroughly cleaned by the Contractor including, without limitation:
 - 1. All construction facilities, tools, equipment, surplus materials, debris and rubbish shall be removed from the Project site and the entire Work shall be left broom clean.
 - 2. All finished surfaces shall be left in perfect condition, free of stains, spots, marks, dirt, and other defects. The Contractor shall be responsible for the cleaning and polishing of the Work of all trades, whether or not cleaning by such trades is included in their respective Selection of the Specifications.
 - 3. All metals, hardware shall be left in an undamaged condition.
- C. Any damage to finishes caused by cleaning operations shall be corrected and repaired by the Contractor at no increase in Contract Price.

1.13 OR-EQUAL

- A. Where materials, equipment, apparatus, or other products are specified by Manufacturer, brand name, type or catalog number, such designation is to establish standards or performance, quality, type and style.
- B. If the General or Subcontractor wishes to use materials or equipment other than these specifically designated herein, as being equal to those so specifically designated, he shall submit the proposed substitution before purchasing and/or

fabrication in accordance with the requirement of the General Conditions for approval.

- C. It is the responsibility of the Contractor to submit all back-up material and data needed to prove that the proposed product is an "or-equal". The Architect will not review an alternative product without proper documentation. Alternative products and assemblies will be rejected immediately without proper documentation.
- D. The schedule of the project is not subject to the availability of products submitted as "or approved equal" or the review needed to certify an "or approved equal" product.

1.14 PERMITS AND POLICE DETAILS

A. The Contractor is responsible for procuring all applicable permits and police details throughout the entire project. Fees for the building permit will be waived.

1.15 COORDINATION

A. The Contractor shall coordinate locations of all items to be installed with the Architect. If an item is not dimensioned, for height or location, contact the Architect for the installation information. Installation of items without the proper dimensional information may result in reinstallation at no additional charge by the contractor.

1.16 GENERAL NOTES

- A. Contractor shall be responsible for checking and coordinating all dimensions with architectural drawings. In case of conflict, the architect shall be notified and shall resolve the conflict.
- B. In any case of conflict between the drawings and the project specifications, the more stringent requirements shall govern.
- C. The Contractor Shall Make No Deviation From Design Drawings Without Prior Review By The Architect.
- D. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated.
- E. All work shall comply with applicable codes and local laws and regulations.
- F. General contractor shall coordinate locations of openings, pits, boxes, sumps, trenches, sleeves, depressions, grooves, and chamfers, with mechanical, electrical and plumbing trades.

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-E

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- G. The structural design is based on the full interaction of all its component parts. No provisions have been made for conditions occurring during construction. It is the sole responsibility of the contractor to make proper and adequate provisions for stability of, and all stresses to the structure due to any cause during construction.
- H. Contractor shall not scale drawings. Contractor shall request all dimensions or information required to perform the work from the architect. Work completed by the contractor without dimensions or information shall be done at their own risk and, if deemed incorrect by the architect, shall be removed and reinstalled to the specifications of the architect at no additional cost to the owner.
- I. Codes: the project is based on the requirements of the Massachusetts state building code eighth edition.
- J. The plans were compiled from various sources. The contractor is responsible for verifying all existing conditions and dimensions.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

DIVISION 01

GENERAL REQUIREMENTS

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SECTION 01 04 00

CONDUCT OF THE WORK

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be furnished complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually furnished in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 PROJECT MANAGEMENT

- A. The Contractor's attention is directed to the General Conditions.
- B. The fence is located on historic Salem Common which is an area of high public use. The Contractor is solely responsible for safety and security on the job site. The Contractor shall take all necessary precautions to ensure the public safety and convenience of the visitors during construction.
- C. The work must be completed in a continuous uninterrupted operation. The Contractor must use sufficient personnel and adequate equipment to complete all the necessary work requirements within a minimum period of time.
- D. Unless specifically authorized by the Owner, in writing, the work must be conducted between the hours of 7:00 a.m. and 5:00 p.m. on Monday through Saturday. No work is to be done on holidays or Sundays unless approved by the Owner in advance.
- E. The Contractor is responsible for the security and stability of partially completed work until the project is accepted by the Owner.

SALEM, MA

CBI JOB NO. 11195-E

Fax: (617) 464-2971

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1.03 SHUTDOWN OF SERVICES

A. If site utility services to the neighborhood are cut by the contractor, he shall supply all labor, materials or whatever may be required to supply said temporary utility services at no extra cost to the neighborhood and in accordance with the state and local regulations on health and safety, working around the clock, until they are reinstated. The contractor shall also repair the damaged utility immediately at no cost to the owner.

1.04 COORDINATION

- A. The Contractor shall submit for approval to the Owner a detailed operational plan showing the sequence of operations prior to commencement of any work at the site. Any changes to this operational plan must be approved by the Owner.
- B. The Contractor must retain on the Work during its progress a competent full time representative, satisfactory to the Owner. This representative shall not be changed, except with the consent of the Owner. The representative shall be in full charge of the work and all instructions given to this person by the Architect shall be binding.
- C. The Contractor must supply to the Owner the home telephone number of a responsible person who may be contacted during non-work-hours for emergencies on the Project.

1.05 OWNER'S COOPERATION

- A. The Owner shall assist the Contractor to perform the Work in accordance with the approved operational plan.
- B. The Contractor shall provide:
 - 1. Notification to the Owner two (2) weeks before any work is scheduled at the site/building.
 - 2. Notification to the Owner in writing forty-eight (48) hours before work is scheduled in any particular area.
 - 3. An updated schedule monthly with the application for payment. Payments will not be authorized until the updated schedule is received and approved.

END OF SECTION

DIVISION 01

GENERAL REQUIREMENTS

SECTION 01 05 00

COORDINATION

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that the equipment to be furnished complete in every respect, and that this Contractor shall provide all equipment needed and usually furnished in connection with such systems to provide a complete installation. Equipment, materials, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 COORDINATION WITH OWNER AND PROCEDURES

- A. Safety is the sole responsibility of the Contractor on the jobsite. Extraordinary care must be taken throughout the project to coordinate work activities with the adjacent public way, and Common activities.
- B. Pre-construction meetings shall be held with the Owner, the Contractor and Architect, to coordinate locations for dumpsters and chutes, deliveries, worker parking, material storage, as well as to discuss safety, scheduling, and procedures.
- C. Contractor shall restrict hazardous items and activities to locations that will have the least impact on the daily operations of the public. All material storage, locations of cranes, dumpsters, workers access, etc. will be only in areas approved by the Owner.
- D. Contractor shall provide signage and other safety barriers at the site adequate to support their safety program.
- E. Contractor shall update the Construction schedule monthly. Requisitions for payment must be accompanied by an updated schedule. The on-site

COORDINATION 01 05 00 - 1

superintendent shall meet with the City representative regularly to inform them of the daily progress and review the schedule for the next week.

1.03 SCHEDULING

- A. Time is of the essence in this project.
- B. Temperature is a critical factor in the construction work. Adhere to manufacturer's specifications.
- C. Within five (5) days after the Contractor has received the Owner's Notice to Proceed, and before the commencement of any work, the Contractor shall transmit the proposed construction schedule to the Owner and Architect for review. If any change in the work will alter agreed upon schedules, the Contractor shall immediately notify the Owner and Architect in writing.
- D. The Contractor shall confine his/her apparatus, storage of materials, and operation of his/her workmen to limits as required by the Owner, and shall not unreasonably encumber the site with these materials. He/she shall keep all access roads and walks clear of construction equipment, materials, and debris of any kind. He shall repair any and all damage to access roads and walks caused by construction operations, and leave them in at least as good condition as originally found. All operations shall be confined within the property. All delivery and construction operations shall be conducted so as to avoid all possible obstruction of the work and site operations. The Contractor shall meet regularly with the Owner to coordinate the use of the Site.

1.04 SUBCONTRACTORS

A. Subcontractors are subject to approval by the Owner.

1.05 CONSTRUCTION REVIEW

- A. All materials and workmanship shall be subject to review by the Architect and all designated representatives of the Owner. Such review may take place at any time during the construction, and wherever work relating to this project is underway. The Contractor shall notify the Architect of any approaching stage of the work likely to require his/her attention, and the Architect shall have the right to reject all defective or non-conforming workmanship and material, and to require its replacement.
- B. If any unreviewed work is covered up without approval, the Contractor shall bear the costs of uncovering it upon request.

1.06 CODES

A. Codes, standards, and publications of private and public bodies mentioned in these specifications, and other such standards and specifications, refer to the latest edition thereof at the time of taking bids unless a specific edition is designated, and shall be considered and integral part of the Contract Documents.

1.07 COORDINATION OF WORK

- A. Contractor shall coordinate all construction work with the City of Salem Department of Public Works and Planning Department.
- B. Contractor is responsible for all building and sidewalk permits, police details as required as well as any other requirements that may be imposed by the City of Salem D.P.W. and Planning Department.

1.08 SPECIFICATION DISTRIBUTION TO WORKMEN

- A. A complete copy of the project manual, including plans and specifications shall be kept at the construction site at all times.
- B. At the direction of the Architect, the Contractor shall photocopy various parts of pertinent Sections of the Project Manual to be handed out to each tradesman.

1.09 FIELD MEASUREMENTS

A. Before ordering any materials or performing any work, the Contractor or his/her subcontractors shall inspect all existing conditions and perform all measurements at the building. No extra charge or compensation will be allowed because of differences between the drawings and the actual dimensions. Any differences between the Project Manual and the actual conditions found shall be submitted to the Architect for his/her decision before proceeding with the work.

1.10 CUTTING AND PATCHING

A. The work to be performed under this Contract shall include all cutting and patching necessary to accommodate new work.

1.11 PERMITS

A. All fees and procurement of building permits shall be the responsibility of the Contractor. Requests for inspections by the Building Inspector and the obtaining of required signatures by Inspection on permits is the responsibility of the Contractor.

1.12 DUMPING

A. The contractor shall submit an affidavit certifying legal and proper dumping and disposal (including locations) of all materials from the project.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

DIVISION 01

GENERAL REQUIREMENTS

SECTION 01 09 00

DEFINITIONS & STANDARDS

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that the equipment to be furnished complete in every respect, and that this Contractor shall provide all equipment needed and usually furnished in connection with such systems to provide a complete installation. Equipment, materials, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 DELIVERY AND STORAGE

- A. Materials shall be delivered dry, in their original, unopened containers, clearly labeled with manufacturer's name, brand name, and such identifying numbers as are appropriate. Materials shall be stored as required by the Manufacturer's specifications.
 - 1. All materials shall be stored flat, or in the case of rolls, standing on end, elevated from the ground or deck, and protected with approved waterproof covers to keep the materials dry and protected from sunlight and moisture, and ventilated to prevent excessive temperature.
 - 2. Flammable materials shall be stored in a cool, dry area away from sparks and open flames.
 - 3. Damaged or deteriorated materials shall not be used and shall be removed from the job site.
 - 4. All cardboard containers shall be stored in dry areas or on pallets. Packing materials shall be collected so as not to blow around the site.

5. All materials shall be stored in temperatures specified by the manufacturer. Submit proposed storage arrangements regarding temperature to the Architect and the materials manufacturer for review.

1.03 JOB CONDITIONS

- A. Do not deliver to site or install any material or system that has not been approved. Materials installed without approval may be required to be removed and replaced at no additional cost to the owner.
- B. Materials which have a temperature other than the application temperature of the manufacturer shall not be applied.
- C. All materials shall be installed according to manufacturer's specifications and shall be compatible with the existing materials used on site.
- D. All surfaces to receive the new materials shall be thoroughly dry. Should surface moisture such as dew exist, the Contractor shall provide the necessary equipment to dry the surface prior to application.

1.04 CONDITIONS, DIMENSIONS AND QUANTITIES

A. All conditions, dimensions and quantities shall be determined or verified by the Contractor. The Plans and details have been compiled from various sources and may not reflect the actual condition at the moment of construction. The Contractor is cautioned to take all precautions and make all investigations necessary to install the proposed work. The Owner will not consider unfamiliarity with the job conditions as a basis for additional compensation.

1.05 DEFINITION OF "CONSULTANT"

A. Any reference to "Designer", "Engineer" or "Architect" in this Project Manual, Specification or on the drawings shall refer to CBI Consulting Inc., 250 Dorchester Avenue., Boston, Massachusetts 02127, (617) 268-8977, Michael Teller, Project Architect.

1.06 DEFINITION OF "OWNER"

A. Any reference to the Owner shall be City of Salem, Department of Planning and Community Development, Erin Schaeffer, Community Development Planner, (978) 619-5685.

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-E CBI Consulting Inc. Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

1.07 MINIMUM REQUIREMENTS

A. It is the intent of these contract documents to, in some cases, exceed the minimum requirements of the manufacturer. The new work shall be bid and installed as detailed.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-E

DIVISION 01

GENERAL REQUIREMENTS

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SECTION 01 30 00 SUBMITTALS

PART 1 - GENERAL

1.01 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 1- GENERAL REQUIREMENTS, which are hereby made a part of this Section of the Specifications.
- 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be provided complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually provided in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated into the work shall be new and of the best grade of their respective kinds.
- E. Consult the individual sections of the specifications for the specific submittals required under those sections and for further details and descriptions of the requirements.

1.02 GENERAL PROCEDURES FOR SUBMITTALS

- A. Timeliness The Contractor shall transmit each submittal to the Designer sufficiently in advance of performing related Work or other applicable activities so that the installation is not delayed by processing times, including disapproval and resubmittal (if required), coordination with other submittals, testing, purchasing, fabrication, delivery, and similar sequenced activities. No extension of time will be authorized because of the Contractor's failure to transmit submittals to the Architect in advance of the Work.
- B. Sequence The Contractor shall transmit each submittal in a sequence which will not result in the Architect's approval having to be later modified or rescinded by reason of subsequent submittals which should have been processed earlier or concurrently for coordination.

SUBMITTALS 01 30 00 - 1

- C. The Contractor's Review Only submittals received from and bearing the stamp of approval of the Contractor will be considered for review by the Architect. Submittals shall be accompanied by a transmittal notice stating name of Project, date of submittal, "To", "From" (Contractor, Subcontractor, Installer, Manufacturer, Supplier), Specification Section, or Drawing No. to which the submittal refers, purpose (first submittal, resubmittal), description, remarks, distribution record, and signature of transmitter.
- D. Architect's Action The Architect will review the Contractor's submittals and return them with one of the following actions recorded thereon by appropriate markings:
 - 1. Final Unrestricted Release: Where marked "Approved" the Work covered by the submittal may proceed provided it complies with the requirements of the Contract Documents.
 - 2. Final-But-Restricted Release: When marked "Approved as Noted" the Work may proceed provided it complies with the Architect's notations or corrections on the submittal and complies with the requirements of the Contract Documents. Acceptance of the Work will depend on these compliances.
 - 3. Returned for Resubmittal: When marked "Revise and Resubmit" or "Disapproved" the Work covered by the submittal (such as purchasing, fabrication, delivery, or other activity) should not proceed. The submittal should be revised or a new submittal resubmitted without delay (no limit to number of resubmissions), in accordance with the Designer's notations stating the reasons for returning the submittal.
- E. Processing All costs for printing, preparing, packaging, submitting, resubmitting, and mailing, or delivering submittals required by this contract shall be included in the Contract Sum.

1.03 OR EQUALS

- A. Definition Whenever a specification section names one or more brands for a given item, and the Contractor wishes to submit, for consideration, another brand, the submission shall be considered an "or-equal" or a "material substitution". For the purposes of this Contract, the terms "or-equal" and "material substitution" shall be considered synonymous.
- B. In no case may an item be provided on the Work other than the item named or described, unless the Architect, with the Owner's written concurrence, shall consider the item equal to the item so named or described, as provided by M.G.L. c.30 § 39M.

- C. The equality of items offered as "equal" to items named or described shall be proved to the satisfaction of the Architect, including all research and full documentation, at the expense of the Contractor submitting the substitution.
- D. The Designer and/or the Owner may require that full size samples of both the specified and proposed products be submitted for review and evaluation. The Contractor shall bear full cost for providing, delivering, and disposal of all such samples.
- E. The Contractor shall assume full responsibility for the performance of any item submitted as an "Or-Equal" and assume the costs of any changes in any Work which may be caused by such substitution.
- F. Or Equal Approval Process On the transmittal, or on a separate sheet attached to the submission, the Contractor shall direct attention to any deviations, including minor limitations and variations, from the Contract Documents.
 - 1. The Contractor shall submit to the Architect for consideration of any orequal substitution a written point-by-point comparison containing the name and full particulars of the proposed product and the product named or described in the Contract Documents.
 - 2. Such submittal shall in no event be made later than ten (10) calendar days prior to the incorporation of the item into the Work. In any case in which the time period specified in the Contract Documents from the Notice to Proceed to Substantial Completion is less than 30 days, this requirement can be waived by the Architect.
 - 3. Upon receipt of a written request for approval of an or-equal substitution, the Architect shall investigate whether the proposed item shall be considered equal to the item named or described in the Contract Documents. Upon conclusion of the investigation, the Architect shall promptly advise the Contractor that the item is, or is not, considered acceptable as on Or-Equal substitution. Such written notice must have the concurrence of the Owner.

1.04 SUBMISSION OF SHOP DRAWINGS

- A. Shop Drawings shall be complete, giving all information necessary or requested in the individual section of the specifications. They shall also show all adjoining Work, other work affected, and details of connection thereto, including hardware, flashing, waterproofing, and all utilities.
- B. Shop Drawings shall be for whole systems. Partial submissions will not be accepted.

- C. The Architect reserves the right to review and approve shop drawings only after approval of related product data and samples.
- D. Shop drawings shall be properly identified and contain the name of the project, name of the firm submitting the shop drawings, shop drawing number, date of shop drawings and revisions, Contractor's stamp of approval, and sufficient spaces near the title block for the Architect's stamp.
- E. The Contractor shall submit to the Architect seven (7) black line prints of each shop drawing. Transparency and prints shall be mailed or delivered in roll form. Each submittal shall be accompanied by a transmittal notice.
- F. When the transparency is returned by the Architect with the stamp "Revise and Resubmit" or "Disapproved", the Contractor shall correct the original drawing or prepare a new drawing and resubmit seven (7) prints thereof to the Architect for approval. This procedure shall be repeated until the Architect's approval is obtained. No limit.
- G. The Contractor shall maintain one full set of approved shop drawings at the site.
- H. Photo copies of the bid documents are not acceptable as shop drawings.
- I. Provide shop drawings for every item to be installed or repaired in the entire project, whether or not indicated in the spec section.

1.05 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES (SUBMITTALS AND DISTRIBUTION)

- A. The General Contractor, within ten (10) working days after the commencement of work shall prepare and submit for the Architect's approval a schedule of Shop Drawings, Product Data and Samples required to be submitted for the work. The schedule shall indicate by trade the date by which final approval of each item must be obtained, and shall be revised as required by conditions of the work, subject to Architect's approval. The schedule of Shop Drawings shall correspond to the Construction Schedule so that the submissions relate to the time when the products and/or systems will be required on the site. The Architect will not approve a Schedule which calls for out of sequence submittals.
- B. General Contractor shall submit Shop Drawing, product data and samples accompanied by the General Contractor's Shop Drawing, Product Data and Sample Transmittals form.
- C. Preparation of Submittal Form: Fill out transmittal form in the following manner using a typewriter or word processor, and retain one copy General Contractor's first file:

1.	General Contr. Job No.	General Contractor's name and job number.
2.	Spec. Section	The Specification Section number where item is specified – do not submit items from more than one Specification Section on the same form.
3.	Submitted by	Name of General Contractor's employee responsible for the General Contractor's review.
4.	Project/No.	Project name and Architect's project number.
5.	Transmittal No.	Transmittal numbers shall be consecutive for the project.
6.	Date Submitted	Date leaving General Contractor's office.
7.	Subcontractor	Name of firm preparing original documents (shop drawings or sample).
8.	Submission No.	1 st , 2 nd , 3 rd , etc. depending on previous submission for same item (see Resubmittal procedure).
9.	Spec. Sec. Para.	Specific paragraph number which item as Specified.
10.	Copies & Type	Number of copies submitted and type of material submitted (sepia, print, brochure or sample, etc.).
11.	Contr.'s Remarks	Note exceptions or deviations from the Contract Documents and reasons for them.

- D. Resubmissions: Resubmittal shall follow the same procedures as the initial submittal with the following exceptions:
 - 1. Transmittal shall contain the same information as the first transmittal except that transmittal numbers shall run consecutively and the submission number shall indicate 2nd, 3rd, etc. submission. The drawing number/description shall be identical to the initial submission and the date shall be the revised date for that submission.

- 2. Unless otherwise approved by the A, no new material shall be included on the same transmittal for a resubmission.
- 3. Where Resubmittal has not been required by the Architect, but corrections have been noted on a shop drawing, seven (7) prints of the drawings after the noted corrections have been made shall be submitted to the Architect for record purposes but not for action. Shop Drawings reviewed by the Designer's Architects will have three prints returned.
- E. Submittal Procedures by General Contractor for Approval
 - 1. General: All submittals shall be made to Architect's office.
 - 2. Shop Drawings: Seven (7) black line prints (maximum sheet size shall be 30 x 42.

F. Architect's Review Procedures:

- 1. The Architect's review, including Architect's review period will not exceed fourteen (14) calendar days from the established date of each submission indicated on the Schedule of Shop Drawings, Product Data, and Samples plus the additional time, if any, for distribution by the General Contractor and receipt of submissions by the Architect. The General Contractor is required to strictly adhere to the established Schedule dates.
- 2. The Architect will process the submission and indicate the appropriate action on the submission and the transmittal. Incomplete or erroneous transmittals will be returned without action.
- 3. The Architect will fill out transmittal in the following sequence:

a. Date Received Date arriving in the Architect's office.b. Date Return Date leaving the Architect's office to

the General Contractor.

c. To/Date Name of architect to whom

submission is sent for review and date

leaving the Architect's office.

d. From/Date Name of architect reviewing

submission and date arriving in the

Architect's office.

e. Action Indicate action taken on submission.

f. Distribution Number of copies distributed and

type of material distributed (sepia, print, brochure or samples, etc.).

g. Architect's Remarks Note major deviations from the

Contract Documents.

4. The Architect will return two (2) of Shop Drawings, one Sample or two brochures with copies of transmittal forms to the General Contractor.

5. The Architect will keep a copy and send one copy to the Owner.

1.06 SUBMISSION OF PRODUCT DATA

- A. The Contractor shall submit seven (7) copies of Product Data to the Architect. All such data shall be specific and identification of material or equipment submitted shall be clearly marked in ink. Data of general nature will not be accepted.
- B. Product Data shall be accompanied by a transmittal notice. The Contractor's stamp of approval shall appear on the printed information itself, in a location which will not impair legibility.
- C. Product Data returned by the Designer as "Disapproved" shall be resubmitted in seven (7) days until the Architect's approval is obtained.
- D. When the Product Data are acceptable, the Architect will stamp them "Approved" or "Approved as Corrected", distribute copies to the team 3 copies, and return two (2) copies to the Contractor. The Contractor shall provide and distribute additional copies as may be required to complete the Work.
- E. The Contractor shall maintain one full set of approved, original, Product Data at the site.
- F. Provide product data for all items to be installed whether or not noted in the specification section.

1.07 SUBMISSION OF SAMPLES

- A. Unless otherwise specified in the individual section, the Contractor shall submit three specimens of each sample.
- B. Samples shall be of adequate size to permit proper evaluation of materials. Where variations in color or in other characteristics are to be expected, samples shall show the maximum range of variation. Materials exceeding the variation of approved samples will not be approved on the Work.

- C. All samples must be approved by MHC, the City, and the Architect. Provide all samples in enough time for approval so as to not affect the schedule.
- D. Samples which can be conveniently mailed shall be sent directly to the Designer, accompanied by a transmittal notice. All transmittals shall be stamped with the Contractor's approval stamp of the material submitted.
- E. All other samples shall be delivered at the field office of the Project Representative with sample identification tag attached and properly filled in. Transmittal notice of samples so delivered with the Contractor's stamp of approval shall be mailed to the Architect.
- F. If a sample is rejected by the Architect, a new sample shall be resubmitted in the manner specified hereinabove. This procedure shall be repeated until the sample is approved by the Architect.
- G. Samples will not be returned unless return is requested at the time of submission. The right is reserved to require submission of samples whether or not particular mention is made in the specifications, at no additional cost to the Owner.
- H Samples shall not be installed as part of the work.
- I. Provide color and finish samples of every item to be installed.

1.08 CONSTRUCTION SCHEDULE

- A. The Proposed Construction Schedule shall be based on an orderly progression of the work, allowing adequate time for each operation, and leading to a reasonable certainty of Substantial Completion by the date established in the Agreement. The Proposed Construction Schedule will be reviewed by the Owner/Architect for compliance with the requirements of this Article and will be accepted or returned to the Contractor for revision and resubmittal. Unless specifically required by law, no payment under this Contract shall be due until the Proposed Construction Schedule has been approved by the Owner/Architect.
- B. The Proposed Construction Schedule in <u>critical path method form</u> which shall include the following with such other details as Owner/Architect may require:
 - 1. Indicate complete sequence of construction by activity, with dates for beginning and completion of each element and stage of construction.
 - 2. Identify each item by major Specification Section number.
 - 3. Submittal and Approval Dates for all Shop Drawings and Samples.

- 4. A chart showing Critical Delivery Dates for Material and Equipment to be incorporated into the Work.
- 5. Provide sub-schedules to define critical portions of entire Schedule.
- 6. Coordinate content with Schedule of Values and provide the cost of each activity as identified in the Construction Schedule.
- C. During the progress of the Work, any changes in the original schedule desired by the General Contractor which affect Contract completion dates shall be approved by the Owner before being put into effect.
- D. When changes in the Work are required, the original Proposed Construction Schedule shall be revised without delay to incorporate such changes or new work and indicate the effect hereof on the Project as a whole.
- E. Provide updated critical path method (CPM) chart each month. Submit chart for review with Contractor's Application for Payment.

1.09 SCHEDULE OF VALUES

A. Prior to the first request for payment, the General Contractor shall submit to the Architect and Owner, a Schedule of Values of the various portions of the work in sufficient detail to reflect various major components of each trade, including quantities when requested, aggregating the total contract sum, and divided so as to facilitate payments for work under each Section in accordance with Article VII of the Contract Form. The Schedule shall be prepared in such form as specified or as the Architect or Owner may approve, and it shall include data to substantial its accuracy. Each item in the Schedule of Values shall include its proper share of overhead and profit in this schedule, including breakdown of values, requires the approval of the Architect and Owner and shall be used only as a basis for the Contractor's request for payment.

1.10 MANUFACTURER'S INSTRUCTIONS

A. Submit manufacturer's printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, in quantities specified for all products.

1.11 CERTIFICATES OF COMPLIANCE

- A. Submit certificates of compliance together with the associated Shop Drawings, Product Data and Samples required for the Product.
- B. Submit on 8-1/2 in. x 11 in. white paper.

- C. Submit one copy.
- D. The Architect will retain the certificates of compliance; no approval reply is intended.

1.12 PATTERNS AND COLORS

A. Submit accurate color charts and pattern charts to the Architect for his/her review and selection whenever a choice of color or pattern is available in a specified product, unless the exact color and pattern of a product are indicated in the Contract Documents. Submit actual cured samples of all materials for color approval.

1.13 RECORD DRAWINGS

A. At the completion of the project, the Contractor shall prepare a complete set of reproducible record drawings and AutoCAD Files, latest version on compact discs showing all systems as actually installed.

1.14 SUBMITTAL TRANSMITTAL FORM

A. All submittals shall be presented with the submittal transmittal form attached, completely filled out. Submittals without the attached form will be returned without review.

From:					SUBMI' TRANSMI	
Contractor' To: CBI Consulation Subsection Num (Contractor' CBI Consulation Subsection Num CC.C. Date: We are sending for your Specification Num Subsection Num	Ilting Inc. ester Ave A 02127 r App	e. oroval	Review	Project: Contractor's Project #: Architect's Project #: Submittal Number: the following items: Specification Title:		
Subcontractor/Sup Product Data Sheet	Copies:	Date:		Description		Size:
MSDS Sheets Shop Drawings Warranties Qualifications Samples						
Deviations from Co	ontract D	ocumer	nts:			
				Notes:		

Designer's Stamp

Contractor's Stamp

DIVISION 01

GENERAL REQUIREMENTS

SECTION 01 40 00

QUALITY CONTROL

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that the equipment to be furnished complete in every respect, and that this Contractor shall provide all equipment needed and usually furnished in connection with such systems to provide a complete installation. Equipment, materials, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 PULL-OUT TESTS

- A. The Contractor shall perform pull-out tests to determine the length and type of fastener required to provide adequate withdrawal resistance from every substrate.
- B. A minimum of two pull out tests shall be performed per section to be fastened.

 More tests shall be performed if required by the structural engineer or the material manufacturer.
- C. Submit a report from the fastener supplier and the product manufacturer describing the pull out tests, the recommend fasteners, and that they are covered under the warranty.

1.03 INSPECTION AND TESTING

- A. An independent inspector and/or testing laboratory may be engaged and paid for by the Owner to perform the inspection and testing of the new work.
- B. The Contractor shall cooperate with the inspector and/or testing laboratory, furnish materials and labor as may be required and provide for convenient access to all parts of the work for purposes of inspection and testing.

QUALITY CONTROL 01 40 00 - 1

- C. The Contractor shall accept as final the results of all such inspection and testing.
- D. The inspector shall have the authority to delay the commencement of work, or to stop the work at any time, for any reason which he deems necessary.
- E. The inspector and/or testing laboratory reserves the right to require the Contractor to perform removal of materials installed by the Contractor. Make all cuts in accordance with the recognized standard practices. Remove materials only in the presence of the inspector.
 - 1. Immediately after removing each material sample identify each by number and exact location by gummed label attached to a smooth surface of the cut sample.
 - 2. Submit the cut samples directly to the inspector after applying identification.
 - 3. Replace the cut with new materials, matching those removed, immediately after each removal, and insure that the replacement is completely watertight.
- F. The removal cuts shall be subjected to various tests, including moisture content, density, thickness, compressive strength, composition, conformance with ASTM specifications where applicable, conformance with the recommendations of the manufacturers whose materials were used.
- G. Bear all costs for tests where materials or systems have been found unacceptable and all costs for replacement required due to such unacceptability.
- H. If any replacement work is required, such work will also be subject to the terms of this SPECIFICATION.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

DIVISION 01

GENERAL REQUIREMENTS

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977 Fax: (617) 464-2971

SECTION 01 50 00

TEMPORARY FACILITIES

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that the equipment to be furnished complete in every respect, and that this Contractor shall provide all equipment needed and usually furnished in connection with such systems to provide a complete installation. Equipment, materials, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 GENERAL

- A. The Contractor shall be responsible for providing and maintaining all temporary facilities until Substantial Completion. Removal of such prior to Substantial Completion must be with the concurrence of the Architect. The Contractor bears full responsibility for reproviding any facility removed prior to Substantial Completion
- B. Removal of all temporary facilities shall be a condition precedent to Substantial Completion unless directed otherwise by the Architect or specifically noted in the specifications.
- C. The Contractor must comply with all safety laws and regulations of the Commonwealth of Massachusetts, the United States Government, and local government agencies applicable to Work under this contract. The Contractor's attention is directed to the Commonwealth of Massachusetts, Department of Labor and Industries Regulation 454 CMR.
- D. Safety is the sole responsibility of the contractor on the job site. Contractor is notified that the building will be occupied during construction. The Architect does

not have control of the job site in any way.

1.03 TEMPORARY TELEPHONES

- A. No telephone service will be provided by the Owner.
- B. All telephone numbers shall be available to the project team. Provide cell phone number for the project superintendent at the job site.
- C. Provide 24-hour emergency phone numbers for the Contractor's Project Manager and Superintendent.

1.04 TEMPORARY TOILETS

- A. Portable, temporary toilets shall be provided by the contractor and shall be located as directed by the owner.
- B. The Contractor:
 - 1. Assumes full responsibility for the use of the temporary toilets
 - 2. Pays all costs for operation, maintenance and cleaning.
- C. Under no circumstances will the Contractor's personnel be allowed to use the newly installed toilets and sinks in the building.
- D. The Contractor shall not have use of sanitary toilet facilities within any adjacent building and must provide portable sanitary toilets for the use of their forces for the entire duration of the work. Toilets shall be cleaned and emptied twice weekly (minimum) and as directed by the Owner.

1.05 TEMPORARY STRUCTURES AND MATERIAL HANDLING

- A. The Contractor shall provide such secure storage sheds, temporary buildings, or trailers as required for the performance of the Contract.
- B. Materials shall be handled, stored, installed, cleaned, and protected in accordance with the best practice in the industry and, except where otherwise specified in the Contract Documents, in accordance with manufacturer's specifications and directions.
- C. The Contractor must obtain the permission of the Owner for the placement of any storage facilities on site, and the Owner assumes no responsibility for articles stored.

1.06 TEMPORARY STAGING

A. Except as otherwise specified, the Contractor shall furnish, install, maintain in safe condition, and remove all scaffolds, staging, and planking over 8 ft. in height, required for the use of all trades for proper execution of the Work, except as noted.

1.07 HOISTING FACILITIES

A. Except as otherwise specified, the Contractor shall provide, operate, and remove material hoists, cranes, and other hoisting as required for the performance of the Work by all trades.

1.08 UTILITIES

A. The contractor shall provide their own power and water. No utilities are available on site.

1.09 WEATHER PROTECTION

- A. The Contractor shall provide temporary enclosures and heat to permit work to be carried on during the months of November through March in compliance with MGL c.149 §44G (d). Without limitation this includes such items as excavation, pile driving, steel erection, erection of masonry, sealants, and similar operations.
- B. "Weather Protection" means the temporary protection of that Work adversely affected by moisture, wind, and cold by covering, enclosing, and/or heating. This protection shall provide adequate working areas during the months of November through March as determined by the Owner and consistent with the construction schedule to permit the continuous progress of all Work necessary to maintain an orderly and efficient sequence of construction operations. The Contractor shall furnish and install "Weather Protection" material and be responsible for all costs, including heating required to maintain a minimum of 40 degrees F. at the working surface. This provision does not supersede any specific requirements for methods of construction, curing of materials, or the applicable conditions set forth in the Contract Documents with added regard to performance obligations of the Contractor.
- C. Within 30 calendar days after award of the Contract, the Contractor shall submit in writing, to the Architect for approval, three (3) copies of the proposed methods for "Weather Protection".
- D. The Contractor shall assume the entire responsibility for weather protection during construction (until Substantial Completion), and shall be liable for any damage to any Work caused by failure to supply proper weather protection and proper ventilation.

- E. Work damaged by frost shall be removed and replaced by and at the Contractor's expense and as directed by the Architect.
- F. It is to be specifically understood that the Contractor shall do no work under any conditions deemed unsuitable by the Contractor to the execution of the Work. This provision shall not constitute any waiver, release, or lessening of the Contractor's obligation to bring the Work to Substantial Completion within the period of time set forth in the Contract Documents.

1.10 PROTECTION

- A. Weather protection shall be provided for; weather conditions occurring or anticipated, the extent of the existing structure exposed, or any other possible hazard.
- B. Dust control, pedestrian protection, and traffic control measures shall be provided during the course of the work.
- C. Schedule and execute all work without exposing the sensitive areas to the affects of inclement weather. Protect the existing structure and its contents against all risks, and repair or replace all damage to the Owner's satisfaction. Protect all exterior surfaces, lighting, landscape areas, and pavement from damage.
- D. All new and temporary construction, including equipment and accessories, shall be secured from wind damage or blow-off.
- E. The Contractor shall provide all necessary temporary protection and barriers to segregate the work area and to prevent damage to adjacent areas. Also provide plywood protection for roofing adjacent to construction. Areas damaged because of inadequate protection will be repaired at no additional cost to the owner, as per these specifications and the recommendations of the Architect.
- F. Provide temporary barricades and other forms of protection as required to protect Owner's personnel, students, and general public from injury due to the work.
- G. Any deteriorated substrate which is discovered shall be promptly reported to the Architect.
- H. Safety on the job site is the sole responsibility of the contractor. The Contractor shall ensure that all Local, State, Federal, OSHA or other applicable safety requirements are strictly accorded to. All OSHA safety requirements regarding items such as scaffolding, temporary protections, lift trucks, cranes, removal of debris, dust control, cleaning solvents, and high pressure water washing, sandblasting and equipment shall be ensured by the Contractor.

1.11 DEBRIS

- A. The Contractor will be responsible for the removal of all construction debris from the job site.
- B. Upon completion of each day and each phase of the work the Contractor shall leave the premises free of all debris and waste, in broom-clean condition. Overnight storage of material on site will be as approved by the Owner. The Contractor shall be responsible for keeping the site free of rubbish and debris, and in a neat and orderly condition at all times. The Contractor shall clean up and remove all accumulated rubbish and debris daily.
- C. The Owner's representative shall inspect the site daily. If it is determined that the site has not been cleaned of construction debris on a particular day the Contractor may be assessed \$100.00 for that day to be used to have the site cleaned by in house personnel. This shall be prepared by the Architect as a deduct change order to the contract.
- D. Debris resulting from the new work shall be placed in covered containers provided by the Contractor and legally disposed of. Burning will not be permitted on site. Dumpster locations shall be approved by the Owner.

1.12 TEMPORARY NOISE AND POLLUTION CONTROL

A. All work performed under the Contract shall conform to the requirements of Chapter 111, Sections 31C and 142D of the General Laws, Commonwealth of Massachusetts, Department of Public Health, and Metropolitan Boston Air Pollution Control District regulations.

1.13 CONSTRUCTION PARKING CONTROL

- A. The Contractor shall control trucks and worker's vehicles to prevent unnecessary congestion in the neighborhood of the project. See Site Plan for allowable on site parking area.
- B. The schedule and location of all deliveries of materials must be coordinated and approved by the Owner.
- C. There is sufficient parking on site for the contractor's vehicles. All parking will be at the direction of the Owner.

1.14 TEMPORARY SITE STORAGE

- A. The Owner shall designate an area for temporary site storage on the site. All materials shall be stored in locked storage trailers or container boxes.
- B. Storage of materials will not be permitted within any building in the scope of work.

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-E CBI Consulting Inc. Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

CBI Consulting Inc.

DIVISION 01

GENERAL REQUIREMENTS

SECTION 01 51 00

PROTECTION

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be furnished complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually furnished in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 PROTECTION OF PERSONS & PROPERTIES

- A. The site will be occupied during construction. The Contractor shall take all necessary precautions to ensure the public safety and convenience of visitors during construction. Safety is the sole responsibility of the contractor, regardless of what is set forth in this document. The architect does not have control of the job site, or means and methods, in any way.
- B. Any damage to roads, (public and private), concrete walks, bituminous concrete areas, fences, rails, lawn areas, trees, shrubbery, poles, underground utilities, etc. shall be made good by and at the Contractor's own expense, all to the satisfaction of the Owner.
- C. The Contractor shall patch, repair and/or replace all adjacent materials and surfaces damaged after the installation of new work to the complete satisfaction and at no expense to the Owner. All repair and replacement work shall match the existing in kind and appearance.

1.03 TEMPORARY PROTECTION

A. The Contractor shall:

- 1. Protect excavations, trenches, and materials at all times from rain water, ground water, backing-up, or leakage of sewers, drains, or other piping, or from water damage of any origin. Provide all pumps, piping, coverings, and other materials and equipment as required by job conditions to accomplish this requirement.
- 2. In addition to the weather protection during the months of November to March specified elsewhere, provide temporary watertight enclosures to protect the Work from damage by inclement weather. Temporary enclosures shall be provided with adequate means of ventilation to prevent accumulation of moisture in the buildings.
- 3. Protect all surfaces to receive work by other trades from any soiling which will prevent proper execution of subsequent work
- 4. Protect other areas and private property of the adjacent residents and the Owner. Any areas damaged by the Contractor shall be restored to the original condition or compensated at the Contractor's expense.
- B. After the installation of the Work by any Subcontractor is completed, the Contractor shall be responsible for its protection and for repairing, replacing, or cleaning any such Work which has been damaged by other trades or by any other cause, so that all Work is in first class condition at the time of Substantial Completion.

1.04 ACCESS

A. The Contractor shall, at all times, leave an unobstructed way along walks and roadways, and shall maintain barriers and lights for the protection of all persons and property in all locations where materials are stored or work is in progress.

1.05 SECURITY

- A. The Contractor shall be responsible for providing all security precautions necessary to protect the Contractor's and Owner's interests.
- B. The Contractor shall be responsible for providing continuous watchmen service as necessary, to insure adequate protection of the general public.

1.06 NOISE AND DUST CONTROL

- A. The Contractor shall take special measures to protect the residents, neighbors, and general public from noise, dust, and other disturbances by:
 - 1. Keeping common pedestrian and vehicular circulation areas clean and unobstructed;
 - 2. Insulating work area from occupied portions as far as possible; and
 - 3. Sealing dust and fumes from contaminating occupied spaces.

1.07 FIRE PROTECTION

- A. The Contractor shall take necessary precautions to insure against fire during construction. The Contractor shall be responsible to insure that the area within contract limits is kept orderly and clean and that combustible rubbish and construction debris is promptly removed from the site.
- B. Installation of equipment suitable for fire protection shall be done as soon as possible after commencement of the Work. The Contractor's attention is directed to the requirements of the Commonwealth of Massachusetts, Department of Labor and Workforce Development Regulation 454 CMR.

1.08 WIND PROTECTION

A. Should high wind warnings be issued by the U.S. Weather Bureau, the Contractor shall take every precaution to minimize danger to persons, to the Work, and to the adjacent property.

1.09 WEATHER PROTECTION

A. The Contractor shall provide Weather Protection as required by Specification Section 01500 Temporary Facilities and any other specific requirements of the Contract Documents.

Fax: (617) 464-2971

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

DIVISION 01

GENERAL REQUIREMENTS

SECTION 01 70 00

PROJECT CLOSEOUT

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that the equipment to be furnished be complete in every respect, and that this Contractor shall provide all equipment needed and usually furnished in connection with such systems to provide a complete installation. Equipment, materials, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 COMPLETION OF WORK

- A. The site shall be cleaned of all debris resulting from the work and areas damaged during the course of the work restored to the satisfaction of the architect and the Owner.
- B. The Contractor shall notify the Architect and Owner that the work is completed and Project Manual requirements have been met. The Architect shall review the completed work with the Contractor within seven (7) calendar days of notification. Any deficiencies observed at the time will be conveyed directly to the Contractor with a written confirmation, after which the Contractor shall correct the stated deficiencies to the satisfaction of the Architect within fourteen (14) calendar days prior to demobilization from the site.
- C. After satisfactory completion of the above, the work shall be considered complete with notification by the Architect to the Owner.
- D. The Contractor shall submit all lien waivers and warranties at this time of final payment.

- E. All guarantees, as required in any Section of the Project Manual shall be submitted for approval prior to final payment.
- F. Contractor shall maintain and record all changes to the plans throughout the entire project and shall submit as-built drawings of the entire project prior to final payment. As-built drawings must be in electronic form on Auto-CAD 2000 or later, submitted on CD. Electronic copies of the Architect's plans can be purchased from the Architect for a fee of \$50 per sheet.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

DIVISION 01

GENERAL REQUIREMENTS

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

SECTION 01 72 00

SURVEYS AND RECORD DRAWINGS

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be furnished complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually furnished in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.01 RECORD DRAWINGS

- A. Record Drawings shall consist of all the Contract Drawings.
- B. From the sets of drawings furnished by the Owner, the Contractor shall reserve one set for record purposes. From this set, the Contractor shall detach and furnish, at no charge to the Subcontractors the drawings of their portion of the Work for the same purpose.
- C. The Contractor and the above Subcontractors shall keep their marked up As Built set on the site at all times and note on it in colored ink or pencil, neatly and accurately, at the end of each working day, the exact location of their work as actually installed. This shall include the location and dimensions of underground and concealed Work, and any architectural, mechanical, or electrical variations from the Contract Drawings. All changes, including those issued by Addendum, Change Order, or instructions by the Architect shall be recorded. Marked up As Built drawings shall be prepared for the entire project and include all Work, including but not limited to:
 - 1. The location of all permanent surface improvements, both horizontally and vertically at ten (10) foot intervals and at all changes of direction.

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- D. The Architect may periodically inspect the marked up As Built drawings at the site. The proper and current maintenance of the information required on these drawings shall be a condition precedent to approval of the monthly applications for payment.
- E. At Substantial Completion the Contractor shall submit the complete set of marked up As Built drawings to the Architect. The Contractor shall check all marked up As-Builts prepared by subcontractors and certify in writing on the title sheet of the drawings that they are complete and correct, prior to submission to the Architect.
- F. The Architect shall review the marked up As Built drawings and verify by letter to the Owner that the Work is complete. The Architect shall incorporate all changes onto original drawings.
- G. The Contractor may make a written request for copies of the completed Record Drawings. The Contractor shall reimburse the Owner directly for the cost of printing of any requested Record Drawings.
- H. Contractor shall maintain and record all changes to the plans throughout the entire project and shall submit as-built drawings of the entire project prior to final payment. As-built drawings must be in electronic form on Auto-CAD 2000 or later, submitted on CD. Electronic copies of the Architect's plans can be purchased from the Architect for a fee of \$50 per sheet.

DIVISION 02

SUBSURFACE INVESTIGATION & DEMOLITION

SECTION 02 20 00

EXCAVATION AND BACKFILL

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be furnished complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually furnished in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 WORK TO BE PERFORMED

- A. Provide all the Excavation and Backfill Work required to complete the work of the contract including all the Excavation and Backfill Work shown on the plans, listed in the specification, and needed to install a complete assembly in every way, with all reinforcing, pinning, and finishes. Coordinate the Excavation and Backfill Work with all the other trades for the project. Provide all demolition and disposal work to complete the Excavation and Backfill Work. Patch to match all adjacent surfaces that are disturbed, left exposed, or unfinished. All work of the contract is related. It is the General Contractor's responsibility to review all the work of each section, each sub-contractor, and each file sub-bidder for the entire project so that all the work can be properly and completely performed.
- B. Excavation and Backfill Work includes, but is not limited to, the removal of asphalt paving and soil to access the work areas for waterproofing work including:
 - 1. Protection of all roads, sidewalks and existing utilities to remain.
 - 2. Excavation to indicated stone foundation depths, saving soil for backfill, replacing after placing the new granite foundation block, and compacting.

- 3. Off-site disposal of all unsuitable materials.
- 4. Supply and placement of all backfill materials required to complete and work of this Section.
- 5. Dewatering as needed for site conditions

1.03 DEFINITIONS AND REFERENCE STANDARDS

- A. ASTM: Specifications of the American Society for Testing and Materials.
- B. Code: Massachusetts State Building Code.

1.04 OUALITY ASSURANCE

- A. Comply with all rules, regulations, laws and ordinances of the Commonwealth of Massachusetts, and of all other authorities having jurisdiction. All labor, materials, equipment, and services necessary to make work comply with such requirements shall be provided without additional cost to Owner.
- B. Field Monitoring and Testing
 - 1. The Owner may retain the services of a Geotechnical Engineer or testing agency to test, observe and document the Contractor's earthwork activities to determine the work is completed in accordance with the Project Specifications and perform such other duties as are herein described throughout these Specifications.
 - 2. All fill materials and their placement will be subject to quality control testing. The Contractor will bear the cost of any tests which are needed to correct previously unacceptable work. Test results and lab recommendations will be available to the Contractor.
 - 3. Approvals given by the Architect or by the testing agencies shall not relieve the Contractor of his/her responsibility for performing the work in accordance with the Contract Documents.

1.05 SUBMITTALS

A. The Contractor shall submit the information specified herein to the Architect for review. Unless otherwise specified, submittals shall be made not less than one week before the start of work.

1.06 JOB CONDITIONS

A. The Contractor shall protect adjacent property, public utilities and structures, and completed work from damage associated with the work.

PART 2 - PRODUCTS

2.01 MATERIALS

Earth materials used as fill shall be as designated below:

A. Crushed Stone: Shall consist of clean, hard, durable natural rock or granite, free of organic matter, rock dust, and other contaminants and conforming to ASTM specification C-33, Table 2, Size 57, 2 in. to #4 sieve size or conforming to Massachusetts DPW specification of M2.01.3.

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

- B. General Fill: Fill Type LF. Graded, free of lumps larger than 3 inches, rocks larger than 2 inches, and debris. Conforming to Massachusetts Highway Department M1.01.0.
- C. Structural Fill: Fill Type SF: conforming to Massachusetts Highway Department standard.

PART 3 - EXECUTION

3.01 CLEARING AND PROTECTION

- A. Locate existing underground utilities in the areas of work. If utilities are to remain in place, provide adequate means of protecting during excavation operations.
- B. Protect adjacent areas from soil erosion and damage.

3.02 EXCAVATION

A. General

- 1. Excavation consists of the removal and stockpiling of topsoil and substrate materials in separate locations.
- 2. Conform to the elevations and dimensions shown on the drawings.
- 3. All surplus excavated material not used to fulfill requirements of the Contract shall become the property of the Contractor and shall be removed from the site and legally disposed of.
- 4. When excavations have reached the prescribed depths, the Architect shall be notified to observe the conditions.

3.03 PLACEMENT AND COMPACTION OF MATERIALS

A. General

- 1. All fill materials shall be placed "in-the-dry" on subgrades acceptable to the Architect.
- 2. Placement of all specified fill materials shall be systematically conducted in the specified uniform layer thickness. Thickness in all cases is measured prior to compaction.

- 3. Compaction of fill materials shall be conducted by a minimum of four (4) complete coverages with acceptable compaction equipment.
- 4. Place in layers not to exceed twelve (12) inches.

B. Compaction Equipment

- 1. In all cases, the character, efficiency and acceptability of the Contractor's compaction equipment shall be subject to the approval of the Architect based on observed or documented field performance.
- 2. Compaction in confined areas (against walls, piers, and in trenches) shall be conducted with acceptable equipment such as hand-guided vibratory compactors or mechanical tampers.

C. Moisture Control

- 1. The amount of moisture in any one layer of fill material shall be as uniform as practicable throughout. The upper limit of water content in materials shall be that which will permit handling, spreading and will permit proper compaction.
- 2. Each layer of material which is too dry shall be sprinkled with water, and the water worked into the material by mechanical methods until a uniform distribution of moisture shall be accurately controlled in amount so that free water will not appear on the surface during, or subsequent to, compaction.

D. Stone Base Course

1. Place in layers not to exceed six (6) inch layers when utilizing light, hand-operated compaction equipment.

DIVISION 02

EXISTING CONDITIONS

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

SECTION 02 41 20

SELECTIVE DEMOLITION

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be furnished complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually furnished in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated in the Work shall be new and of the best grade of their respective kinds.

1.02 WORK TO BE PERFORMED

- A. Provide all the Demolition Work required to complete the Work of the Contract including all the Demolition Work shown on the plans, listed in the specification, and needed to install a complete assembly in every way. Coordinate the Demolition Work with all the other trades for the project. Provide all demolition and disposal Work to complete the Demolition Work. Patch to match all adjacent surfaces that are disturbed, left exposed, or unfinished. All Work of the Contract is related. It is the General Contractor's responsibility to review all the Work of each section, each Subcontractor, and each file sub-bidder for the entire project so that all the Work can be properly and completely performed.
- B. Selective Demolition Work includes, but is not limited to:
 - 1. In general, the Contractor shall supply all material, equipment, temporary protection, tools and appliances necessary for the proper removal of selected construction materials for the completion of the Work as required in the Specifications, in accordance with good construction, and as required by the materials manufacturer.

- 2. Supply all shoring and protection necessary to protect the occupants, building area, building systems, and landscape areas. All means and methods are the responsibility of the Contractor. The Contractor is solely responsible for safety on the job site.
- 3. Extent of selective demolition as described on the drawings and in conjunction with all the new Work shown on the drawings. The Contractor is responsible for all demolition, disposal, and cleanup associated with the Work, whether or not shown on the plans or described herein required to complete the Work.

1.03 RELATED WORK

- A. The following items of related Work are specified and included in other Sections of the Specifications:
 - 1. Section 02 20 10, Excavation and Fill

1.04 QUALITY ASSURANCE

- A. Supervision:
 - 1. Engage and assign supervision of shoring and bracing Work to qualified personnel.
- B. Regulations:
 - 1. Comply with local codes and ordinances of governing authorities having jurisdiction.

1.05 SUBMITTALS

- A. Schedule:
 - 1. Submit schedule indicating proposed methods and sequence of operations for Selective Demolition.
 - 2. Include coordination for shut-off, capping, and continuation of utility services in scope area.

1.06 JOB CONDITIONS

- A. Condition of Structures:
 - 1. Owner assumes no responsibility for actual condition of items or structures to be demolished.

2. Conditions existing at time of commencement of Contract will be maintained by Owner insofar as practicable.

B. Protections:

- 1. Provide temporary barricades and other forms of protection to protect Owner's personnel and general public from injury due to selective demolition Work. Safety is the sole responsibility of the Contractor.
- 2. Provide protective measures to provide free and safe passage of Owner's personnel and general public to and from area of selective demolition.
- 3. Erect temporary covered passageways as required by authorities having jurisdiction.
- 4. Take measures to protect against windblown dust, obtain Owner's approval of means used for dust control.
- 5. Provide interior and exterior shoring, bracing, or support to prevent movement, settlement, or collapse of structure or element to be demolished, and adjacent facilities or Work to remain.
- 6. Protect from damage existing finish Work that is to remain in place and becomes exposed during demolition operations.
- 7. Protect adjacent materials and finishes with suitable coverings when necessary including, but not limited to, automobiles in parking lot adjacent to building which will remain in use during Work to be performed.
- 8. Remove protections at completion of Work.
- C. Damages: Promptly repair damages caused to building or property, including cars, by demolition Work at no cost to Owner.

D. Traffic:

- 1. Conduct Selective Demolition operations and debris removal in a manner to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.
- 2. Do not close, block, or otherwise obstruct streets, walks, parking lot, or other occupied or used facilities without written permission from the authorities having jurisdiction.
- 3. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

E. Utility services:

- 1. Maintain existing utilities, keep in service, and protect against damage during demolition operations.
- 2. Do not interrupt existing utilities service occupied or used facilities, except when authorized in writing by authorities having jurisdiction. Provide 48 hours notice if service must be interrupted.
- 3. Provide temporary services during interruptions to existing utilities, as acceptable to governing authorities.

F. Environmental Controls:

- 1. Comply with governing regulations pertaining to environmental protection.
- 2. Do not use water when it may create hazardous or objectionable conditions such as ice, flooding, and pollution.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION

3.01 INSPECTION

A. Before start of Selective Demolition Work, inspect areas in which Work will be performed.

3.02 PREPARATION

A. Structure Safety:

- 1. Provide exterior shoring, bracing, or support to prevent movement, settlement, or collapse of structures to be demolished and adjacent facilities to remain.
- 2. Cease operations and notify the Owner's Representative immediately if safety of structure appears to be endangered.
- 3. Take precautions to support structure until determination is made for continuing operations.

B. Shoring and Bracing

1. If shoring and bracing is required, locate the system to clear permanent construction and to permit the completion of the Work.

- 2. Provide shoring and bracing system adequately anchored and braced to resist natural forces.
- 3. No shoring and bracing system shall remain at the completion of the Work.

3.03 DEMOLITION

A. General:

- 1. Perform Demolition Work in a systematic manner.
- 2. Use such methods as required to complete Work indicated on Drawings in accordance with Demolition Schedule and governing regulations.
- 3. If unanticipated mechanical, electrical, or structural elements which conflict with intended function or design are encountered, investigate and measure both nature and extent of the conflict with Consultant.

B. Disposal of Demolished Materials:

- 1. Remove debris, rubbish, and other materials resulting from demolition operations from site.
- 2. Transport and legally dispose of materials off site.
- 3. If hazardous materials are encountered during demolition operations, comply with applicable regulations, laws, and ordinances concerning removal, handling, and protection against exposure or environmental pollution. Present receipts from certified waste disposal firms confirming hazardous waste disposal.
- 4. Burning of removed materials is not permitted on project site.

3.04 CLEANING AND REPAIR

- A. On completion of demolition Work, remove tools, equipment, and demolished materials from site. Remove debris on a daily basis.
- B. Remove protection and leave areas broom clean.
- C. Repair demolition performed in excess of that required.
- D. Repair adjacent construction or surfaces soiled or damaged by selective demolition Work.

END OF SECTION

SELECTIVE DEMOLITION 02 41 00 - 5

DIVISION 02

SUBSURFACE INVESTIGATION & DEMOLITION

SECTION 02 83 00

LEAD PAINT CONSIDERATIONS

CBI Consulting Inc.

Tel: (617) 268-8977

Fax: (617) 464-2971

Boston, Massachusetts

PART 1 – GENERAL

1.01 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 GENERAL REQUIREMENTS, which are hereby, made a part of this Section of the Specifications.
- B. Examine all Drawings and all other Sections of the Specifications for requirements of related sections affecting the Work of this Section.
- C. The General Contractor is responsible for the coordination of the Work of this Section with related Work. No delays in completion of the Work shall be claimed for lack of coordination.
- D. The Contractor shall comply with all applicable local, state, and federal guidelines and regulations regarding all Work involving the presence of lead paint. All Contractors shall be made aware that lead paint exists on painted surfaces throughout the building.

1.02 DESCRIPTION OF WORK

- A. The Work of this Section specifies minimum requirements for the disturbance, removal, containment, and disposal of lead paint and associated waste generated as a result of construction activities at the Salem, Massachusetts, as outlined in the Project Specifications.
- B. The procedures described herein shall apply to all construction including but not limited to window replacement and painting Work where a Worker may be occupationally exposed to lead, as well as the disposal requirements of the debris. The Contractor shall assume that any painted surface contains lead paint and it shall be the Contractor's responsibility to protect Workers performing under this Contract.
- C. The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State and Local regulations pertaining to Work practices, hauling and disposal of waste, protection of Workers and visitors to the site, and persons occupying areas adjacent to the site. The Contractor shall hold the Architect and Owner harmless for failure to comply with any applicable Work, hauling, disposal, safety, health or regulation on the part of himself, his Workers or his subcontractors.
- D. The Contractor is required to ensure the protection of Workers performing any related Work that will affect surfaces coated with lead paint as well as protecting

the public and the environment from exposure to lead dust.

E. Codes and Standards

- 1. All Work shall conform to the standards set by applicable Federal, State and Local laws, regulations, ordinances, and guidelines in such form in which they exist at the time of the Work on the contract and as may be required by subsequent regulations.
- 2. In addition to any detailed requirements of the Specification, the Contractor shall at his own cost and expense comply with all laws, ordinances, rules and regulations of Federal, State, Regional and Local Authorities regarding handling and storing of lead waste material.
- 3. The following references are cited as applicable standard and regulations as amended:
 - a. Code of Federal Regulations (CFR) Publications:

29 CFR 1910 – General Industry

29 CFR 1926.55 – Gases, Vapors, Fumes, Dusts and Mists

29 CFR 1926.57 – Ventilation

29 CFR 1926.62 – Lead in Construction

29 CFR 1926.200 – Signs, Signals and Barricades

29 CFR 1926.354 – Welding, Cutting and Heating in Way of

Preservative Coatings

29 CFR Subpart T – Demolition

40 CFR 50 - National Primary and Secondary Ambient Air

Quality Standards for Lead

40 CFR 61 - Subpart A General Provisions

40 CFR 61.152 – Standard for Waste Manufacturing, Demolition,

Renovation, Spraying, and Fabricating Operations.

40 CFR 241 - Guidelines for the Land Disposal of Solid Wastes

40 CFR 257 - Criteria for Classification of Solid Waste

40 CFR 261 and 262 - Waste Disposal Facilities and Practices

b. Massachusetts Regulations:

454 CMR 22.11 Safety Procedures for Renovation

454 CMR 23.00 Occupational Lead Exposure

4. All regulations by the above and other governing agencies in their most current version are applicable throughout this project. Where there is a

conflict between this Specification and the cited State, Federal, or local regulations, the more restrictive or stringent requirements shall prevail.

5. THIS SECTION REFERS TO MANY REQUIREMENTS FOUND IN THESE REFERENCES, BUT IN NO WAY IS IT INTENDED TO CITE OR REITERATE ALL PROVISIONS THEREIN OR ELSEWHERE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KNOW, UNDERSTAND, AND ABIDE BY ALL SUCH REGULATIONS AND COMMON PRACTICES.

1.03 DEFINITIONS

- A. The following definitions apply to the performance of the Work of this project.
 - 1. Action Level: Employee exposure, without regard to the use of respirators to an airborne concentration of lead of 30 micrograms/cubic meter (μ /m³) calculated as an 8-hour time-weighted average (TWA).
 - 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. Consultant: Authorized representatives who are under contract with the Owner, or the Architect, to perform Lead Paint Consulting services.
 - 4. 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.
 - 5. Lead Containing Paint: Paint, varnish, or stain that contains lead in excess of 0.0% lead by weight.
 - 6. Permissible Exposure Limit (PEL): The employer shall assure that no employee is exposed to lead at concentrations greater than 50 μ g/m³ of air averaged over an 8-hour period. If an employee is exposed to lead for more than 8 hours in any Work day, the employee's allowable exposure, as a time weighted average (TWA) for that day, shall be reduced according to the following formula: Allowable employee exposure in μ g/m³ of air = 400 divided by hours Worked in the day.
 - 7. Sample Location: Area or place where an air or dust sample is collected.
 - 8. Time Weighted Average (TWA): The TWA is an 8-hour time weighted average for the test of the concentration of lead for Worker exposure.
 - 9. 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.
 - 10. Work Area: A controlled-access Work area, which has plastic sheeting or

other containment barriers erected to separate the trades and the occupants of the building.

1.04 SUBMITTALS

- A. Provide the following Submittals at the Pre-Construction Conference for the review of the Architect and Owner:
 - 1. Copies of all permits, applications, licenses, and like documents required by Federal, State, or local regulations and this specification obtained or submitted in proper fashion.
 - 2. 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 throughout all phases of the job, 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.
 - 3. Material Safety Data Sheets on potentially hazardous materials to be used on the project.
 - 4. Waste Disposal Plan which describes the waste stream and the disposal means (i.e. landfill, recycle, etc.) and includes the name, address, and ID number of the proposed hazardous waste hauler, waste transfer route, and proposed disposal reclamation or treatment facility,

NOTE: No Work of the project will be allowed to begin until Architect and Owner accept the Pre-Construction Submittals. Any delay caused by the Contractor's inability to submit this documentation in a timely fashion does not constitute a claim for extra compensation or a time extension.

1.05 GENERAL WORK PROCEDURES

- A. Work shall be carried out in sequential phases and shall be approved by the Architect. This shall include window removal requirements for Work area clearance and Work area release prior to general construction Work.
- B. At no time will the Owner permit storage of debris generated from renovation activities to be stored inside buildings at the site, and any storage of materials shall be subject to the Owner's approval. Assure security of debris at all times.

1.06 SPECIAL CONSIDERATIONS

- A. In general, the following activities are minimum requirements of this Section and affect the renovation performed on the painted components:
 - 1. No torch cutting, mechanical sanding or stripping, or abrasive methods of paint removal shall occur until the employer performs an employee

- exposure assessment as required under 29 CFR 1926.62 and determines actual employee exposure.
- 2. Workers shall be informed of the components to be impacted during renovation that have been identified as containing lead.
- 3. 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. The Contractor shall hold the Architect and Owner harmless from any costs, damages, and 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 and 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.

1.08 COORDINATION

A. Coordinate the Work of this Section with that of all other trades. 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 Architect. As a Contract requirement, any reasonable delay caused by this requirement will not constitute a basis for claim against the Architect and Owner. Contractor must coordinate the Work of this section with the Work of the General Contractor and all other trades.

1.09 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.

1.10 DISPOSAL OF WASTE MATERIAL

A. The Contractor shall comply with the Resource Conservation and Recovery ACT (RCRA) and with all applicable state and local regulations.

- B. Contractor shall be responsible for disposing of all waste determined by Toxicity Characteristic Leachate Procedure (TCLP) to be hazardous. If TCLP testing has not been performed, the Contractor shall be responsible for testing the waste.
- C. Contractor shall comply with all EPA regulations.

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 Architect. The required materials shall include, but not necessarily be 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 in OSHA
 - 5. Flexible duct for ventilation units (if required)
 - 6. Spray adhesive, fire retardant
 - 7. Personal Protective Equipment, NIOSH approved respirators
 - 8. HEPA vacuums
 - 9. Tri-sodium Phosphate (TSP) and product data
 - 10. Cloth tarpaulin
 - 11. Chemical stripper, where applicable, not containing methylene chloride and/or flammable materials.

PART 3 – EXECUTION

3.01 SCHEDULING

A. The Contractor shall coordinate all scheduling with the Architect. A schedule of Work shall be submitted to the Architect prior to contract performance.

3.02 UTILITIES

A. Provide all necessary connections for temporary utilities in the Workplace during Work. Shut down and disconnect all electrical power to the Work area so that there is no possibility of reactivation and electrical shock during the Work. The temporary electrical power shall be in accordance with all OSHA requirements.

3.03 IDENTIFICATION OF HAZARDS

A. Prior to any Work involving lead components, the contractor shall identify all Work activities in which a worker may be occupationally exposed to lead and shall

initially determine if any Worker may be exposed to lead at or above the action level according to 29 CFR 1926.62.

3.04 BARRIERS AND ISOLATION AREAS

- A. The degree of containment shall be appropriate for the anticipated levels of airborne lead dust. The lower the level of airborne lead, the lesser the requirements necessary to control lead emissions at the job site.
- B. Work Area Isolation (unless exempted according to Paragraph A)
 - 1. The Contractor shall isolate Work areas for the duration of Work by completely sealing off all openings in the Work area. Isolation shall be accomplished by constructing critical barriers where necessary around the Work area perimeter. The Work area shall be sealed airtight to the greatest extent possible.
 - 2. Provide temporary power and lighting (with ground fault circuit interrupt protection) to the 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 environment normal to renovation areas.
- C. All Work areas involving lead shall remain isolated from all other trades on the project and remain inaccessible to the public. Contractor shall monitor the access to the renovation Work areas. The below listed items are required to control the generation of lead dust during renovation activities. The Contractor is ultimately responsible for cleaning all generated dust and paint debris from renovation operations and must maintain Work areas free from lead dust generated from renovation activities.
 - 1. Signs shall be posted at all approaches to the Work area warning that Work involving lead is being conducted. Signs shall be in bold lettering not smaller than two inches tall.
 - 2. Barriers shall not be removed until the Work areas are thoroughly cleaned.

3.05 PERSONNEL SAMPLING - CONTRACTOR

A. Perform personnel air sampling during all window Work to determine Worker exposure limits according to 29 CFR 1926.62. The results of such sampling shall be provided to individual Workers in writing within 5 Working days after completion of the exposure assessment. The Contractor shall be responsible for paying for the collection and analysis of personnel air sampling.

3.06 WORK PROCEDURES

- A. The Contractor shall initiate, and continue, sufficient 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. 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.
- 4. 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 Owner or Architect 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.

3.07 STORAGE OF WASTE

- A. Use of waste containers on site shall be controlled under the following requirements:
 - 1. Location of waste containers on site shall be coordinated with the Owner.
 - 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.

END OF SECTION

DIVISION 02

SUBSURFACE INVESTIGATION & DEMOLITION

SECTION 02 90 10

LANDSCAPING REPAIR

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01000 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be furnished complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually furnished in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 WORK TO BE PERFORMED

- A. Provide all the Landscaping Repair Work required to complete the work of the contract including all the Landscaping Repair Work shown on the plans, listed in the specification, and needed to install a complete assembly in every way, with all reinforcing, pinning, and finishes. Coordinate the Landscaping Repair Work with all the other trades for the project. Provide all demolition and disposal work to complete the Landscaping Repair Work. Patch to match all adjacent surfaces that are disturbed, left exposed, or unfinished. All work of the contract is related. It is the General Contractor's responsibility to review all the work of each section, each Subcontractor, and each file sub-bidder for the entire project so that all the work can be properly and completely performed.
- B. Landscaping Repair Work includes, but is not limited to, replacing and planting of trees, shrubs and grass, including mulching, staking and related planting procedures of landscaping items <u>only if damaged during construction</u>.
 - 1. Preparation of final sub-grades in planted areas.
 - 2. Furnishing topsoil at areas to be planted.
 - 3. Planting mixes

LANDSCAPING REPAIR 02 90 10 - 1

- 4. Protection, maintenance and guarantee of plant materials.
- 5. Existing tree protection and care
- 6. Samples of materials.

1.03 RELATED WORK UNDER OTHER SECTIONS

- A. The following items of related work are specified and included in other Sections of the Specifications:
 - 1. Section 02070, Selective Demolition

1.04 QUALITY ASSURANCE

- A. Comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade. Provide stock true to botanical name and legibly tagged.
- B. Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.
- C. All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of 2 years.

1.05 SAMPLES

- A. Submit the following samples in accordance with the requirements of GENERAL CONDITIONS and SUPPLEMENTAL GENERAL CONDITIONS.
 - 1. Mulch
 - 2. Anchors
 - 3. Wire
 - 4. Hose
 - 5. Turnbuckles and cable clamps
 - 6. Wrapping
 - 7. Topsoil
- B. Provide samples for testing as required by Architect.

PART 2 – PRODUCTS

2.01 TOPSOIL

A. Topsoil shall be a fertile, friable natural topsoil not excessively acid or alkaline and tree of toxic substances harmful to plant growth. Topsoil shall be without admixture of subsoil and free from clay lumps, stumps, roots, debris, stones, or other similar substances 2" or more in diameter.

It shall be obtained from a well-drained arable site with a history of good plant growth. Submit sample for approval by the Landscape Architect.

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

2.02 SLUDGE FERTILIZER

A. Sludge fertilizer shall be an organic activated, granular, heat dried sludge and shall contain the following minimum percentages by weight: 6% Nitrogen, 4% Phosphoric Acid, and other nutritious basic elements. The sludge fertilizer shall be delivered as specified in standard size bags, showing weight analysis and name of processor and shall be stored in a weatherproof storage place.

2.03 COMPOSTED COW MANURE

- A. Manure shall be a derivative of cattle manure which has undergone a period of composting rendering it into a crumbly, odor free, weed free material containing beneficial natural soil bacteria. It shall be free of harmful chemicals and other injurious substances. Manure shall be free of refuse of any kind and shall not contain more than 25% of straw, shavings, leaves, or other material. Manure shall not be more than 2 years nor less than 9 months old.
- B. A composition of peat moss or peat humus to which has been added dehydrated manure such as bovine in the proportion of 100 pounds of dehydrated manure per cubic yard of peat, may be substituted for manure as specified above.

2.04 BONE MEAL

A. Bone meal shall be commercial raw bone meal, finely ground, having a minimum analysis of 4% nitrogen and 20% phosphoric acid.

2.05 WATER

A. Water will be furnished by Owner on the site. Hose and other watering equipment shall be furnished by Contractor.

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-E CBI Consulting Inc. Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

2.06 PLANT MATERIALS

A. Contractor shall replace in kind and plant all plants or lawn damaged or killed during construction. No substitutions will be permitted. All plants shall be nursery grown unless specifically authorized to be collected.

- B. Plant shall be in accordance with the USA Standard for Nursery Stock of the American Association of Nurserymen.
- C. All plants shall be typical of their species or variety and shall have a normal habit of growth and be legibly tagged with the proper name. All plants shall have been grown under climatic conditions similar to those in the locality of the site of the project under construction, or have been acclimated to such conditions for at least 2 years. Trees shall have straight trunks and all abrasions and cuts shall be completely culled over.
- D. The root system of each shall be well provided with fibrous roots. All parts shall be sound, healthy, and vigorous, well branched and densely foliated when in leaf. They shall be free of disease, insect pests, eggs or larvae.
- E. All plants must be moved with the root systems as solid units with balls of earth firmly wrapped with burlap. The diameter and depth of the balls of earth must be sufficient to encompass the fibrous root feeding system necessary for the healthy development of the plant. No plant shall be accepted when the ball of earth surrounding its roots has been badly cracked or broken preparatory to or during the process of planting or after the burlap, staves, ropes or platform required in connection with its transplanting have been removed. The plants and balls shall remain intact during all operations. All plants shall be freshly dug. No plants from cold storage or previously heeled-in will be accepted. All plants that cannot be planted at once must be heeled-in by setting in the ground and covering the balls with soil and then watering.
- F. The height of the trees (measure from the crown of the roots to the tip of the top branch) shall be not less than that of the tree being replaced. The branching height for shade trees next to walks shall be 7'. This may be obtained by pruning after delivery if this does not ruin the shape or form of the trees or cause unsightly scares. All cuts shall be shellacked. The trunk of each tree shall be a single trunk growing from a single unmutilated crown of roots. No part of the trunk shall be conspicuously crooked as compared with normal trees of the same variety. The trunk shall be free from sunscald, frost cracks, or wounds resulting from abrasions, fire or other causes. No pruning wounds shall be present having a diameter exceeding 2" and such wounds must show vigorous bark on all edges. No trees which have had their headers cut will be accepted.
- G. Shrubs shall meet the requirements for spread of height of the shrub being replaced. The measurements for height are to be taken from the ground level to

the average height of the shrub and not to the longest branch. The thickness of each shrub shall correspond to the trade classification No. 1.

Single stemmed or thin plants will not be accepted. The side branches must be generous, well-twigged, and the plant as a whole well branched to the ground. The plants must be in a moist vigorous condition, free from dead wood, bruises or other root or branch injuries.

2.07 MULCH

A. Mulch material shall be softwood hemlock bark shredded into fibrous pliable slices generally not exceeding 1/2" in width.

Mulch shall be 98% organic matter with the pH range 3.5 to 4.5. Moisture content of packaged material shall not exceed 35%. Submit sample.

2.08 STAKING MATERIALS

- A. Stakes for supporting trees shall be of sound wood, uniform in size, free of knots and holes. They shall be nominal 2" x 4" and 10' long for support staking, 3' long for guy wire anchor stakes. Stakes shall be stained dark brown.
- B. Wire for tree bracing and guying shall be pliable No. 12 gauge galvanized steel.
- C. Hose for covering wire shall be new or used 2 ply reinforced rubber garden hose not less than 1/2" inside diameter.
- D. Wrapping material shall be first quality, heavy waterproof crepe paper manufactured for this purpose, or first quality burlap not less than 4" nor more than 6" wide of suitable strength and manufactured for this purpose.

2.09 SEED

- A. Seed mixture shall be fresh, clean, new crop seed. Grass shall be of the previous year's crop and in no case shall the weed seed content exceed 0.25% by weight. The seed shall be furnished and delivered in the proportion specified below in new, clean, sealed and properly labeled containers. All seed shall comply with State and Federal seed laws. Submit manufacturer's Certificates of Compliance. Seed that has become wet, moldy or otherwise damaged shall not be acceptable. Chewings fescue, hard fescue, tall fescue and rygrass shall contain *Acromonium* endophytes. Seed containing endophyte must be kept cool and dry at all times; do not stockpile in the sun.
 - 1. Seed Mixture Composition (not to be used on terraces)

Proportion Germination Purity

Common Name By Weight Minimum Minimum

Creeping Red Fescue 50% 85% 95%

Kentucky Bluegrass	40%	85%	90%
Perennial Rye	10%	90%	90%

- a. Bluegrass and ryegrass varieties shall be within the top 50 percent and 25 percent respectively, of varieties tested in National Turfgrass Evaluation Program, or currently recommended as low maintenance varieties by University of Massachusetts or the University of Rhode Island.
- b. Seeding rate for the General Lawn Seed Mix shall be 6 pounds per 1,000 square feet.

PART 3 - EXECUTION

3.01 METHODS

A. Personnel: The planting and lawn construction shall be performed by personnel familiar with the accepted procedure of planting and under the constant supervision of a qualified planting foreman.

B. Planting Seasons:

- 1. Deciduous plants shall be planted only when dormant, that is, before leaves appear in the spring and subsequent to their loss in the fall, unless otherwise directed by the Architect.
- 2. Evergreen plants may be planted in the spring until new growth appears and any time between September 15 and November 30.
- 3. If the building completion date prohibits in-season planting, the Contractor shall complete his work within the project date and prepare himself for out-of-season planting, including wiltproofing and extra watering.

Plant guarantee periods remain as stated below. No frozen ground planting.

C. Lawn Replacement

- 1. Remove all areas of dead lawn including root system. The Architect shall be the sole authority as to the extent of lawn replacement areas.
- 2. Contractor to provide a minimum of 6" of new loam in all areas of lawn replacement. Peat moss shall be mixed into existing hard and/or clay type soil. Architect shall determine the need for and amounts of peat moss required.
- 3. New grass shall be sod of rye grass, blue grass or a combination of both.

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- 4. Apply starter fertilizer to all areas of newly planted grass.
- 5. Maintain constant moist soil conditions, a minimum of thirty days.
- D. Planting of Trees, Shrubs, and Vines:
 - 1. Unless otherwise directed by the Architect, the indication of a plant to be replaced is to be interpreted as including the digging of a hole, furnishing a plant of the specified size, the work of planting and mulching, and guying, staking and wrapping where called for.
 - 2. One or more stockpiles of approved backfill mixture shall be maintained at all times during the planting operations. The backfill mixture shall consist of 50% topsoil and 50% specified composted cow manure by volume, thoroughly mixed together. The following shall be added to each area of tree replacement:
 - 5 lbs. of sludge fertilizer
 - 5 lbs. of bone meal
 - 5 lbs, of cottonseed meal

The following shall be added to each area of lawn replacement:

- 1 lb. sludge fertilizer
- 1 lb. bone meal
- 1 lb. cottonseed meal
- 3. Locations for all plants shall be staked on the ground and must be approved by the Architect before any excavation is made. Adjustments in locations and outlines shall be made as directed. In the event that areas for planting are prepared and backfilled with Backfill Mixture to grade prior to commencement of lawn operations, they shall be so marked that when the work of planting proceeds, they can be readily located.
 - In case underground obstructions such as ledge or utilities are encountered, locations shall be changed under the direction of the Architect without extra charge.
- 4. Holes for trees shall be at least 2' greater in diameter than the spread of the root systems and at least 6" deeper than root ball. Holes for shrubs and vines shall be at least 12" greater in diameter than the spread of the root system and at least 18" deep.

- 5. Specified backfill mixture shall be spread and incorporated with loam in all areas of tree or lawn replacement and as directed by the Architect.
- 6. Planting: All plant roots and earthballs must be kept damp and thoroughly protected from sun and/or drying winds at all times from the beginning until the final operation, during transportation, and on the ground until the final operation of planting. The plants shall be planted in the center of the holes and at the same depth as they previously grew. They shall be plumbed and turned as directed. Specified Mixture shall be backfilled in layers of not more than 9" and each layer watered sufficiently to settle before the next layer is put in place. Backfill Mixture shall be tamped under edges of balled plants. Enough Backfill Material shall be used to bring the surfaces to finish grade when settled.
 - a. A saucer shall be provided around each plant.
 - b. Plants must be flooded with water twice within the first 24 hours of time of planting.
 - c. Wrapping: The trunks of all shade trees shall be wrapped spirally from the ground to the height of the second branches or as directed. Wrap brown cord 3" on center spirally to hold paper neatly in place.
 - d. Provide a 3" layer (after settlement) of bark mulch over the surface of each saucer and over the entire area of shrub beds.
 - e. Stake all trees.

E. PLANTING COORDINATION:

- 1. Replacement plantings must match existing for type and caliber of trees and size of shrubs.
- 2. The Contractor shall be responsible for selection and tagging at nurseries stocking the specified materials.
- 3. Contractor shall inform Architect when planting will commence, anticipated delivery date of material and have made and provided for the staking of all plants and plant bed.
- 4. Failure to notify the Architect in advance, in order to arrange proper scheduling may result in loss of time or removal of any plant or plants not installed as specified or directed.

3.02 PRUNING

- A. Each tree and shrub shall be pruned in accordance with American Nurserymen Association Standards to preserve the natural character of the plant.
- B. All dead wood or suckers and all broken or badly bruised branches shall be removed. In addition, 1/3 of the wood may be removed by thinning out to balance root loss due to transplanting providing the natural character and form of the tree is preserved. Never cut a leader.
- C. Pruning shall be done with clean, sharp tools.
- D. Cuts over 1" in diameter shall be painted with an approved asphaltic tree paint. Paint shall cover all exposed living tissue.

3.03 MAINTENANCE

- A. Maintenance shall begin immediately after each plant is planted. Plants shall be watered, mulched, weeded, pruned, sprayed, fertilized, cultivated and otherwise maintained and protected for a minimum of 30 days until provisional acceptance. Settled plants shall be reset to proper grade and position, planting saucer restored and dead material removed. Stakes and wire shall be tightened and repaired.
 - Defective work shall be corrected as soon as possible after it becomes apparent and weather and season permit.
- B. Upon completion of planting and prior to provisional acceptance, remove from the site excess soil and debris, and repair all damage resulting from planting operations.
- C. Protection: Planting areas and plants shall be protected against trespassing and damage of any kind. This shall include the provision and installation of approved temporary fencing if necessary. If any plants become damaged or injured by vandalism or neglect of others prior to provisional acceptance, the Contractor shall treat or replace them at his own expense.

3.04 ACCEPTANCE AND GUARANTEE

- A. After the 30-day maintenance period, the Contractor shall request from the Architect an inspection to determine whether the plant material is acceptable. If the plant materials and workmanship are acceptable, written notice shall be given by the Architect to the Contractor stating that the guarantee period begins from the date of inspection.
- B. If a substantial number of plants are sickly or dead at the time of inspection, acceptance will not be granted, and the Contractor's responsibility for

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-E

Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

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maintenance of all plants shall be extended until replacements are made. Replacements shall conform in all respects to specifications for new plants and shall be planted in the same manner.

- C. Materials and Operations: All replacements shall be plants of the same kind and size specified on the plant list. They shall be furnished and planted as specified above. The cost shall be borne by the Contractor. Replacements resulting from the removal, loss or damage, due to occupancy of the project in any part, vandalism, or acts of neglect on the part of others, physical damage by animals, vehicles, etc., and losses due to curtailment of water by local authorities, will be approved and paid for by the Owner.
- D. Plants shall be guaranteed for a period of one year after inspection and shall be alive and in satisfactory growth at the end of the guarantee period.
- E. At the end of the guarantee period, inspection will be made again. Any plant required under this Contract that is dead or unsatisfactory shall be removed from the site. These shall be replaced during the normal planting season, until the plants live through one year.

END OF SECTION

DIVISION 05 METALS

SECTION 05 59 90

ORNAMENTAL IRON

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be furnished complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually furnished in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 WORK TO BE PERFORMED

- A. Provide all the Ornamental Iron work required to complete the work of the contract including all Ornamental Iron work shown on the plans, listed in the specification, and needed to install a complete assembly in every way, with all hardware, finishes, and accessories. Coordinate the Ornamental Iron work with all the other trades for the project. Provide all disposal work to complete the Ornamental Iron work. Patch to match all adjacent surfaces that are disturbed, left exposed, or unfinished. All work of the contract is related. It is the General Contractor's responsibility to review all the work of each section, each subcontractor, and each file sub-bidder for the entire project so that all the work can be properly and completely performed.
- B. Ornamental Iron work shall include but is not limited to:
 - 1. Carefully disconnect and transport selected fence sections to the shop for renovation and repair. Pad all sections to avoid breakage and scratching.
 - 2. Sandblast all parts of each fence section to remove all paint, rust and scale.

- 3. Properly dispose of paint and sand blast debris as lead paint. Provide disposal manifest. See Spec section 02 83 00.
- 4. Replace missing or damaged pieces of the fence. Cast all new cast-iron to match existing to replace missing parts from existing patterns.
- 5. Straighten the fence so that it stands plumb, level, and true.
- 6. Replace missing or damaged pieces of top rail from mild steel.
- 7. Install new expansion joints at the ends of each top rail as the connection.
- 8. Assemble all the parts into a unified assembly.
- 9. Brush blast the entire assembly to remove any "blush rust".
- 10. Paint the entire fence assembly with a 3-coat high tech paint system including a zinc rich primer (Gray), an epoxy intermediate coat (Red), and a polyurethane top coat (Black). Do not proceed with subsequent coats until the previous coat has been completely covered. Provide minimum mil thickness as recommended by the manufacturer. However, coverage is the measure of completeness of the paint.
- 11. Apply continuous black silicone sealant over the clean, cured painting at the locations noted on the details.
- 12. Carefully pad and protect the finish and transport to the site.
- 13. Carefully install on site to be level, plumb, and true.
- 14. Touch-up the paint finish to the complete satisfaction of the Architect. Excessive damage to the factory finish will be cause for rejection of the work and the fence will be required to be returned and repainted in the shop at no additional cost to the Owner.
- 15. Fence sections to be included in the scope are #76, 77, 78, 79, 80, 88, 91, 92, 93, 94, 97, 98, and 104.
- 16. Carefully remove and dispose of three (3) existing bollards at Section #78.
- 17. At Section #78, furnish three (3) new bollards and install in the same location as those removed. Replacement bollards shall be Ironsmith Bollards "Salem Bollards" in cast iron (www.ironsmith.com) or approved equal.
- 18. At Section #78, grind down bolt flush with granite threshold.

- 19. Add Alternate #1 work shall include fence section #89.
- 20. Add Alternate #2 work shall include fence section #90.
- 21. Add Alternate #3 work shall include fence section #95.
- 22. Add Alternate #4 work shall include fence section #96.
- 23. Add Alternate #5 work shall include fence section #99.
- 24. Add Alternate #6 work shall include fence section #100.
- 25. Add Alternate #7 work shall include fence section #101.
- 26. Add Alternate #8 work shall include fence section #102.
- 27. Add Alternate #9 work shall include fence section #103.
- D. All repair work shall conform with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for the Treatment of Cultural Landscapes.

1.03 SUBMITTALS

- A. Submit the following shop drawings in accordance with the provisions of SECTION 01300 SUBMITTALS in GENERAL REQUIREMENTS.
 - 1. Entire fence assembly within Scope.
 - 2. All cast pieces of iron and patterns
 - 3. All hardware, fastening, fasteners, welding in complete detail.
 - 4. Address separation of dissimilar materials to avoid galvanic corrosion.
- B. Submit the following samples and data in accordance with the provisions of SECTION 01300 SUBMITTALS in GENERAL REQUIREMENTS.
 - 1. One of each custom fabricated decorative elements required on a repetitive basis.
 - 2. Stainless steel bolts.
 - 3. Sample weld to produce a flush square connection.
 - 4. Fastener connections.
 - 5. Sample of expansion connection.
- C. Certifications:

- 1. American Welders Society qualification certificates for all welders involved in the work.
- 2. Certification of lawful disposal of all lead paint chips removed from fence.
- D. Removal, Transportation and Protection Methods and Procedures:
 - 1. Packing/crating to shop.
 - 2. Handling equipment.
 - 3. Packing/crating back to site.
- E. Do not order materials or commence fabrication of any work or begin installation until approval has been obtained from the Consultant.

1.04 QUALITY ASSURANCE

- A. Provide at all times during the work of this Section adequate supervisory personnel who shall be thoroughly familiar with the type of construction involved and with the requirements of the Contract Documents pertinent to this Work.
- B. Comply with the Codes and Standards of the American Welding Society and the Steel Structures Painting Council.
- C. Certify that all welders have passed the American Welding Society qualification test within the past 12 months.
- D. All fence fabrication work shall be performed in the shop. Field work will be limited to installation, and touch-up painting.
- E. Store all fence sections, gates and parts indoors in a clean, dry environment. Consistent temperature and humidity conditions shall be maintained throughout the fabrication process.

1.05 PRODUCT HANDLING

- A. Contractor shall be responsible for all shoring and hoisting of fence sections as well as protection of adjacent materials and property.
- B. All fence sections removed shall be handled separately. Fence sections shall not come in contact with other sections during installation, transport, or delivery. Any damage to the fence as a result of mishandling the material shall be completely repaired to the satisfaction of the Consultant and at no additional cost to the Owner.

- C. Load and unload gates in approved locations. Do not dump, drag, drop, or scrape the gates.
- D. The gate shall be delivered to the site with adequate protection to prevent damage to the parts or the finish.
- E. Use only canvas straps to hoist the gates and pad at each location. Use only canvas straps to hoist the gates in shop during the painting process. If chain is used and breaks the coating, the gates shall be completely re-blasted and repainted.

1.06 REFERENCE STANDARDS

- A. The work shall conform to the codes and standards of the following agencies as further cited herein (these code books shall be kept at the shop at all times):
 - 1. ASTM: American Society for Testing and Materials, 196 Race Street, Philadelphia, PA 19103, USA as published in "Compilation of ASTM Standards in Building Codes".
 - 2. AWS: American Welding Society Inc., 2501 NW 7th Street, Miami, FL 33125 USA as published in "Standard D1.1-72, Structural Welding Code".
 - 3. AISC: American Institute for Steel Construction, 101 Park Avenue, New York, NY, USA as published in "Code for Standard Practice for Steel Buildings and Bridges"; "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings".
 - 4. ANSI: American National Standard Institute, 1430 Broadway, New York, NY 10018, USA
 - 5. SSPC: Steel Structures Painting Council, 4400 Fifth Avenue, Pittsburgh, PA 15213, USA as published in Volumes 1 and 2 of "SSPC Manual".
 - 6. The following Specifications, Standards and Codes of current issue form a part of this Specification.
 - 7. American Society for Testing and Materials: A36, A48, A53, A123, A143, A149, A153, A246.
 - 8. American Iron and Steel Institute, applicable standards.
 - 9. American Institute for Steel Construction (AISC): Code of Standard Practice for Steel Buildings and Bridges: Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings.

- 10. Federal Specs: QQ-1-652A, Iron Gray Castings; QQ-S741a, Steel Plates, Shapes and Bars, Carbon, Structural: WW-P521 Malleable Iron.
- 11. American Welding Society Code: Standard Code for Arc and Gas Welding in Building Construction.
- 12. National Association of Architectural Metal Manufacturers, applicable publications.

1.07 JOB CONDITIONS

- A. Time delivery and installation of ornamental iron work to avoid delaying other trades whose work is dependent on or affected by the ornamental iron work and to comply with protection and storage requirements. Coordinate all field work with masonry contractor.
- B. Installer must examine the substrates and supporting structures and the conditions under which the ornamental iron work is to be installed, and notify the Consultant in writing of conditions until unsatisfactory conditions have been corrected in a manner acceptable to the installer.
- C. Coordinate location of expansion connections and setting locations so that attached work will comply with design requirements.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Metal Surfaces: For fabrication of new ornamental iron work, all of which will be exposed to view, use only materials which are smooth and free of surface blemishes including pitting, seam marks, roller marks, rolled trade names, and roughness.
- B. Provide all materials of the best commercial quality for the purpose intended, free from all defects which would impair the strength or durability of the work.
- C. Provide ferrous metals conforming to ASTM Standards.
 - 1. Steel for plates, bars, angles, and structural shapes.
 - 2. Stainless steel machine screws, bolts, and pins at expansion detail and for embedded legs.
 - 3. Cast iron for cast ornamental pieces.
- D. All steel ornamental iron shall be painted, as per Section 09 90 00.

- E. At Fence Section 64, where the new historic bollards are to be installed, they shall be "Salem" style #9023 by Ironsmith, 1-800-338-4766, in cast-iron, in the removable style, over schedule 40 pipe (number 9023C). Furnish and install bollard and galvanized schedule 40 pipe.
- F. The threaded rod hold down detail for each end post shall be as follows:
 - 1. A new stainless steel hold-down "Hat Channel" style clip shall be provided 3" wide x 4 ½" long to accommodate the threaded rod in the center and four 3/8" x 2 ¾" wedge anchors with approximately 2-ton load hold-down strength.
 - 2. Tack weld a nut to the bottom of the hold-down clip and install a $\frac{1}{2}$ " stainless steel threaded rod to the hold-down clip with a $\frac{1}{2}$ 13-nut and split lock washer with anti-seize compound.
 - 3. Feed the cast-iron end post over the threaded rod arrangement so the rod feeds through the hold-down post that exists within the cast-iron end post and screw a $\frac{1}{2}$ 13-nut flat washer down to secure the end post to the base. Provide a coupling nut as well. All the components of this assembly shall be stainless steel.

2.02 FABRICATION

- A. Use materials of size and thickness indicated, or if not indicated, as required to produce strength and durability in finished product for use intended. Work to dimensions indicated or accepted on drawings and shop drawings, using approved details of fabrication and support. Use type of materials indicated or specified for various components of work.
- B. Form exposed work true to shape and size, and line and level with accurate angles and surfaces and straight sharp edges. Ease exposed edges to a radius of approximately 1/32 inch unless otherwise indicated. Form bent metal corners to smallest radius possible without causing grain separation or otherwise impairing work. Cutting, shearing, and punching shall leave clean, true lines and surfaces. Curved work shall be evenly sprung.
 - 1. All exposed edges and ends of plates, bars, shapes, or tubing shall be square and smooth, free of cutting marks, shear distortion, burrs, and nicks.
 - 2. Provide uniform and consistent joints with all exposed copes, miters, and butt cuts.
- C. Weld corners and seams continuously, and where required for strength on concealed surfaces in accordance with AWS recommendations. Tack welding will be permitted as specifically noted. Where flush butt joints are required,

slightly oversize welds, fill with plastic filler, and grind flat. Grind exposed connections smooth and flush to match and blend with adjacent surfaces. All grinding shall be to the satisfaction of the Consultant.

- 1. Weld material: Electrodes, welding rods, and filler metals are to be compatible in strength and appearance with the parent material joined.
- D. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners and welds wherever possible. Use exposed fasteners to match original fasteners.
- E. No bolted connections will be permitted. Connections not welded shall be machine screwed after being tapped and died to match the original design.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Take field measurements prior to preparation of shop drawings and fabrication where possible. Do not delay any progress.
- B. Coordinate and furnish anchorages, and dimensions for items which are to be embedded in masonry construction. Coordinate delivery of such items to project site.

3.02 WELDING

- A. Welding shall be continuous. Tack welding will not be permitted. All exposed welds shall be ground smooth to the complete satisfaction of the Architect. All inside corners, bar to bar shall be clean and crisp to appear as if the connection was bolted with concealed fasteners and not welded.
- B. Where structural joints are made by welding, the details of all joints, the techniques of welding employed, the appearance and quality of welds made, and the methods used to correct defective work shall conform to AISC and AWS Codes.
- C. Welds shall be made only by certified welders who have previously been qualified by tests as prescribed in AWS Standard Qualification Procedure for the type of work required.
- D. The use of a gas cutting torch in the field for correcting fabrication errors will be permitted on structural framing members only when prior written approval of the Engineer has been obtained for each specific condition.

3.03 WORKMANSHIP

- A. All work shall be executed by experienced mechanics and shall conform to details, be clean and straight with sharply defined profiles. Unless otherwise particularly noted, finished surfaces shall have smooth finish.
- B. Shearing and punching shall be done cleanly so as not to deform or mar adjacent surface.
- C. Shop connections shall be welded and field connections bolted unless otherwise indicated. Bolts shall be turned up tight and threads deformed to prevent loosening.
- D. Castings shall be sound and free from warp, holes and other defects that impair strength and appearance. Exposed surfaces shall have a smooth finish with sharp well-defined lines and arises. Machined joints shall be milled to a close fit. Provide all necessary lugs, brackets and similar items so that work can be assembled and installed in a neat substantial manner.
- E. Flanges shall be concealed where practicable. Thickness of metal and details of assembly and support shall be such as to provide ample strength and stiffness.
- F. Provide holes and connections as required to accommodate work of other trades and for site assembly of metal work. Holes shall be drilled or punched and reamed in the shop. Show sizes and locations of all such holes on the shop drawings.
- G. Joints and connections exposed to weather shall be formed to exclude water.
- H. All materials and workmanship under this SECTION shall be subject to inspection in the mill, shop or field by the Architect, or by qualified inspectors retained by the Owner. Inspection shall be without expense to the Owner. However, such inspection, wherever conducted, shall not relieve Contractor of his responsibility to furnish materials and workmanship in accordance with Contract requirements.

3.04 INSTALLATION

- A. Take all measurements required at the site. Check measurements, compare dimensions and other data with various trades installed adjoining work to assure proper coordination.
- B. For all drilling and fitting, cutting, welding, bolting and riveting required to erect, install and fit metal work to adjoining work. Conform to AISC Code. Furnish all screws, bolts, anchors, etc., required to attach metal work securely to adjoining work.

- C. Do not cut or alter members in the field without Engineer's approval. Do not enlarge unfair holes by burning and forcing, but correct by reaming.
- D. Be responsible for the correct location of miscellaneous metal work, including anchor bolts and base plates, and angles. Take particular care to maintain steel shapes, etc., plumb and level during the construction.
- E. All work shall be accurately set to established lines and elevations and rigidly fastened in place with suitable attachments to the construction of the building.
- F. Furnish, fabricate, install and anchor all light iron, miscellaneous metal work as indicated on the Drawings and as specified herein. Install all supports and anchors for miscellaneous metal work.
- G. Furnish all required anchors, anchor bolts, fastenings, etc., for attachment of work of all trades to concrete and masonry, except where otherwise specified or obviously included under other Sections of the Specifications.
- H. Clean up site of all debris, tools and materials daily.

3.05 INSTALLATION

- A. General Contractor shall have installed all support brackets or structural elements required to receive the restored fence. Contractor to provide work in advance, coordinate dimensions and procedures. Do not deliver restored fence to site without confirming that supports have been installed.
- B. No field welding is permitted. Fence shall be properly cut and fitted as required in the shop. Provide all temporary bracing, guy wires, turnbuckles, and horizontal struts as required during installation.
- C. All operating gates shall hang plumb, level, and secure for full opening without interference. Install center and edge stays as required. Adjust hardware for smooth operation and lubricate where necessary. No sag or twist will be allowed in gates.
- D. Touch up paint immediately after erection. Clean abraded areas and paint with same material used in the shop. Temperature considerations may delay touch-up. Refer to Manufacturer's recommendation.

3.06 FINAL INSPECTION

- A. Consultant shall review each section in shop before delivery to site. Contractor shall make all corrections or repairs as directed before coating. Consultant will also review each section after coating.
- B. Consultant shall review each section in field upon installation and will note any damage as a result of delivery or installation. Contractor will make repairs or touch-up as directed. Fence sections that are severely damaged or which have had the coating system compromised shall be returned to the shop to be completely

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-E CBI Consulting Inc. Boston, Massachusetts Tel: (617) 268-8977 Fax: (617) 464-2971

repaired, sandblasted and refinished to the satisfaction of the Consultant and at no extra cost to the Owner.

C. After approval of each installed section in the field any damage to the metal work by the masonry contractor shall be repaired by the ornamental metal contractor and billed to the mason.

END OF SECTION

DIVISION 07

THERMAL AND MOISTURE PROTECTION

SECTION 07 92 13

ELASTOMERIC JOINT SEALANTS

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that the equipment to be furnished complete in every respect, and that this Contractor shall provide all equipment needed and usually furnished in connection with such systems to provide a complete installation. Equipment, materials, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 WORK TO BE PERFORMED

- A. Provide all the Sealants and Caulking work required to complete the work of the contract including all the Sealants and Caulking work shown on the plans, listed in the specification, and needed to install a complete assembly in every way, with all hardware, finishes, and accessories. Coordinate the Sealants and Caulking work with all the other trades for the project. Provide all demolition and disposal work to complete the Sealants and Caulking work. Patch to match all adjacent surfaces that are disturbed, left exposed, or unfinished. All work of the contract is related. It is the General Contractor's responsibility to review all the work of each section, each Subcontractor, and each file sub-bidder for the entire project so that all the work can be properly and completely performed.
- B. Sealants and caulking work includes, but is not limited to:
 - 1. Provide black silicone sealant as detailed, to seal joints between cast-iron elements.
 - 2. Sealant shall be shaped in a "cant" to shed water.

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1.03 SUBMITTALS

A. Product Literature: Submit 4 copies of product data sheets and the manufacturer's installation instructions.

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B. Color Samples: Copies of manufacturer's standard color charts shall be submitted. Cured samples of each chosen color shall be submitted for verification of actual color to be installed.

1.04 PRODUCT HANDLING

A. Delivery shall be in manufacturer's original unopened container, clearly identifying each product specified, relating it to the product literature submitted.

1.05 GUARANTEES

A. Exterior sealant shall be guaranteed by the manufacturer against cohesive and adhesive failure of the sealant and water penetration through the joints for TWENTY (20) years.

PART 2 – PRODUCTS

2.01 GENERAL

A. Colors: Provide full range of manufacturer's color samples for Architect's review.

2.02 MATERIALS

- A. Exterior and Window Sealant: Medium modulus, neutral cure single component, non-sag, Silicone sealant ASTM C-920-79/Type S/Class 25/Grade NS, such as 795 by Dow Corning, or approved Equal.
- B. Color: Black.
- C. Primer: A primer <u>shall be used</u> at all locations in accordance with the manufacturer's instructions, with all primers being installed prior to the installation of any backer rod or bond breaker tape. Manufacturer shall be consulted for all surfaces not specifically covered in submittal application instructions.

HISTORIC REPAIRS TO SALEM COMMON CAST-IRON FENCE – PHASE 3 SALEM, MA CBI JOB NO. 11195-E

PART 3 – EXECUTION

3.01 JOINT SURFACE PREPARATION

A. Remove all failed sealants and clean joint surfaces immediately before installation of sealant and caulking compounds. Remove dirt, insecure coatings, moisture and other substances which would interfere with the bond of sealant or caulking compounds.

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Fax: (617) 464-2971

3.02 INSTALLATION

- A. Surrounding areas shall be protected to ensure that no sealant contaminates these surfaces.
- B. Sealant shall be installed in accordance with manufacturer's recommendations and instructions in order to insure proper width to depth ratio. Take all steps to prevent three (3) sided adhesion. Sealant depth shall be one half of joint width with a minimum depth of 1/4" and a maximum of 1/2" unless otherwise required by the manufacturer.
- C. Both temperature and dampness conditions may restrict application of these sealants. Comply with manufacturer's instructions.

END OF SECTION

DIVISION 09 FINISHES

CBI Consulting Inc.

Boston, Massachusetts

Tel: (617) 268-8977

Fax: (617) 464-2971

SECTION 09 90 00 PAINTING

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include the General Conditions, Modifications to the General Conditions, and applicable parts of Division 01 as 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 Contract.
- D. It is the intent of the Specifications and the Drawings to require that all the material, labor, and equipment be furnished complete in every respect, and that this Contractor shall provide all material, labor, and equipment needed and usually furnished in connection with such systems to provide a complete installation including all demolition, disposal, and patching of adjacent surfaces. Materials, equipment, and articles incorporated in the work shall be new and of the best grade of their respective kinds.

1.02 WORK TO BE PERFORMED

- A. Provide all the Painting work required to complete the work of the contract including all the Painting work shown on the plans, listed in the specification, and needed to install a complete assembly in every way, with all reinforcing, pinning, and finishes. Coordinate the Painting work with all the other trades for the project. Provide all demolition and disposal work to complete the Painting work. Patch to match all adjacent surfaces that are disturbed, left exposed, or unfinished. All work of the contract is related. It is the General Contractor's responsibility to review all the work of each section, each sub-contractor, and each file sub-bidder for the entire project so that all the work can be properly and completely performed.
- B. Painting work includes, but is not limited to:
 - 1. Paint the entire fence assembly with a 3-coat high tech paint system including a zinc rich primer (Gray), an epoxy intermediate coat (Red), and a polyurethane top coat (Black). Do not proceed with subsequent coats until the previous coat has been completely covered. Provide minimum

mil thickness as recommended by the manufacturer. However, coverage is the measure of completeness of the paint.

2. Touch-up the paint finish to the complete satisfaction of the Architect. Excessive damage to the factory finish will be cause for rejection of the work and the fence will be required to be returned and repainted in the shop at no additional cost to the Owner.

1.03 SUBMITTALS

- A. Submit the following shop drawings in accordance with the provisions of SECTION 01 31 00 SUBMITTALS in the general requirements.
 - 1. Manufacturers literature on each product used.
- B. Submit the following samples in accordance with the provisions of SECTION 01 31 00 SUBMITTALS in the general requirements.
 - 1. 12" long section of metal fabrication with complete paint finish.

1.04 OUALITY ASSURANCE

- A. Provide at all times during the work of this Section adequate supervisory personnel who shall be thoroughly familiar with the type of construction involved and with the requirements of the Contract Documents pertinent to this Work.
- B. Comply with the Codes and Standards of the Steel Structures Painting Council.

PART 2 – PRODUCTS

2.01 PAINT

- A. All paints to be by Sherwin Williams, Benjamin Moore, Pratt & Lambert brand or approved equal. Specification is based on the Sherwin Williams brand but may be by an approved equal.
- B. Metal:
 - 1. ZINC-RICH PRIMER shall be "SeaGuard Universal Primer" by Sherwin Williams which is a high solids, low V.O.C., heavy-metal free, rust inhibitive, universal metal primer for Marine and offshore applications.
 - Provide 5 dry mil thickness, minimum.
 - 2. EPOXY INTERMEDIATE COAT shall be "Dura-Plate 235 Multi-Purpose Epoxy" by Sherwin Williams which is a modified epoxy phenalkamine,

formulated specifically for immersion and atmospheric service in marine and industrial environments.

Provide 8 dry mil thickness, minimum.

3. POLYURETHANE FINISH COAT shall be "ACROLON ULTRA" by Sherwin Williams which is a high performance, high gloss acrylic polyurethane. It is specifically designed to provide long term UV protection for high visibility structures.

Provide 5 dry mil thickness, minimum.

PART 3 – EXECUTION

3.01 SURFACE PREPARATION

- A. Install all paint as per the manufacture's written recommendations.
- D. Metal Surfaces.
 - 1. Sandblast all parts of each fence section to remove all paint, rust and scale.
 - 2. After repair and assembly of the fence, brush blast the entire assembly to remove any "blush rust".

3.02 APPLICATION TO METAL

- A. Apply paint as per manufacturer's recommendations and by methods generally accepted by the trade to achieve approved results. However, primer shall be applied to all joints by brush to force the paint into the hard to reach areas. Full coverage will be achieved when the color of the coat of paint below in no longer visible.
- B. All work shall be performed in the shop by qualified personnel under controlled conditions for dust, temperature and humidity. Provide sufficient lighting.
- C. Prime all prepared bare metal surfaces.
- D. Paint the entire fence assembly with a 3-coat high tech paint system including a zinc rich primer (Gray), an epoxy intermediate coat (Red), and a polyurethane top coat (Black). Do not proceed with subsequent coats until the previous coat has been completely covered. Provide minimum mil thickness as recommended by the manufacturer. However, coverage is the measure of completeness of the paint.
- E. Touch-up the paint finish to the complete satisfaction of the Architect. Excessive damage to the factory finish will be cause for rejection of the work and the fence

will be required to be returned and repainted in the shop at no additional cost to the Owner.

3.03 PROTECTION

- A. The contractor is responsible for protecting the finish of the Railings after coating during storage, delivery and installation.
- B. Touch-up scrapes, scratches and any other mar in the finish as required after installation as per this specification.
- C. If Consultant determines that the paint finish has been damaged by the contractor, beyond repair by touch-up, the entire rail section shall be taken back to the shop and shall be re-finished as per this specification and at no additional cost to the Owner.

END OF SECTION