TOWN OF ARLINGTON MASSACHUSETTS INVITATION TO BID # 13-12

CULVERT REHABILITATION AT ARLINGTON HIGH SCHOOL

ARLINGTON, MASSACHUSETTS

Sealed bids are invited and will be received by the Town Manager, Town of Arlington, Massachusetts, until 11:00 A.M., Thursday, June 27, 2013 at the Office of the Purchasing Agent, Town Hall, Arlington, Massachusetts 02476, at which time and place they will be publicly opened and read.

A BID DEPOSIT IN THE FORM OF CASH, CERTIFIED CHECK, OR TREASURER'S CHECK, shall accompany every bid. The amount of such bid deposit shall be FIVE PERCENT (5%) of the value of the bid.

Specifications and proposal forms will be available at the Office of the Purchasing Agent, Town Hall, Arlington, Massachusetts. All bids must be in sealed envelopes plainly marked: <u>BID ON:</u> <u>CULVERT REHABILITATION AT ARLINGTON HIGH SCHOOL, BID # 13-12, THURSDAY,</u> June 27, 2013 AT 11:00 A.M.

The conditions of employment as set forth in Sections 26 to 27D and 27F of Chapter 149 of the General Laws, as amended, shall prevail in the execution of the work under this contract.

Attention is called to the fact that minimum wage rates and health and welfare and pension fund contributions are established for this contract and are a part of the specifications.

Work under this contract shall be governed by M.G.L.Ch.30, Sec.39M.

Attestation Forms pursuant to M.G.L. Ch. 62C, Sec. 49A and M.G.L. Ch. 701 of the Acts of 1983 are enclosed and shall be submitted with bids.

Proposals are for Culvert Rehabilitation of two (2), 5 ft x 7 ft elliptical corrugated metal pipes located at Arlington High School rear parking lot in the Town of Arlington, MA. The project Scope of work will include erosion control, turbidity control, culvert cleaning, sediment disposal, pipe and invert repair, pipe lining and other all necessary work items to reline the existing culverts. A Pre-Bid Meeting will be held at the site on Tuesday, June 18th, 2013 at 1:00pm to allow for site observations. The culvert is located in the Arlington High School Rear Parking Lot at the end of Mill Brook Drive behind the High School.

It is the intention of the Owner to award the Contract to the lowest qualified responsive bidder. The bidder must submit a bid on all bid items in the Contract.

All proposals to include prices in both writing and in figures, and must be signed by the bidder with his business address.

An increase or decrease in the quantity of work shall not be regarded as a sufficient ground for and increase in the unit prices.

To receive consideration, bids must be in the hands of the Purchasing Agent or his authorized representative not later than the day and hour above mentioned. For further information relative to this bid, please confer with Domenic R. Lanzillotti, Director, Purchasing Department, Town Hall, Arlington, Massachusetts, 02476.

OSHA Construction Training Required: As of July 1, 2006, under M.G.L. – Chapter 30, Section 39s, any person, submitting a bid for, or signing a contract to work on, the construction, reconstruction, alteration, remodeling or repair of any public work by the Commonwealth of Massachusetts/Town of Arlington, and estimated by the awarding Authority to cost more than \$10,000, shall certify on the Bid or Contract, under penalty of perjury, that all employees to be employed at the work 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

The Town Manager reserves the right to cancel any invitation for bids, to reject in whole or in part any and all bids, when it is deemed in the best interest of the Town of Arlington to do so.

TOWN OF ARLINGTON

Adam W. Chapdelaine Town Manager

Date: <u>June 12, 2013</u>

INSTRUCTION TO BIDDERS

1. Receipt of Bids

1

The Town may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informality in or reject any bids. Any bid may be withdrawn before the time for the opening of bids. Any bid received after the time and date specified shall not be considered. No bidder may withdraw his/her bid for a period of 30 days, excluding Saturdays, Sundays, and legal holidays after actual date of the opening thereof.

2. Preparation of Bid

Each bid shall be submitted on the forms attached to these documents. The bid forms may be removed and submitted separately from the other documents. All blank spaces for bid prices must be filled in with the unit price for the item or the lump sum for which the proposal is made. Bidders must bid on each item. All entries in the entire proposal must be made clearly, and prices written in both words and figures in the spaces provided.

Each bid must be in a sealed envelope addressed to the Office of the Purchasing Agent, 730 Massachusetts Avenue, Arlington, Massachusetts, 02476; and bearing on the outside the name of the bidder, his/her address, the name of the project for which the bid is submitted, and the notation BID ON: BID # 13 - 12, CULVERT REHABILITATION AT ARLINGTON HIGH SCHOOL, ARLINGTON MASSACHUSETTS

3. Bid Security

Every bid submitted by contractors shall be accompanied by a bid deposit in the form of cash, certified check, treasurer's or cashier's check, or a bid bond issued by a responsible bank or trust company and made payable to the Town of Arlington. The amount of the bid deposit shall be 5% of the amount of the bid. All security except those of the three lowest responsible and eligible bidders will be returned within ten days, Saturdays, Sundays, and legal holidays excluded, after opening of the bid. All bid securities will be returned on the execution of the contract or if no award is made within 30 days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening thereof, unless forfeited under the conditions herein stipulated.

In case a party to whom a contract is awarded shall fail or neglect to execute the contract and furnish the satisfactory bond in the time specified, the Town may determine the bidder has abandoned the contract and thereupon the proposal and acceptance shall be null and void, and the bid security accompanying the proposal shall be forfeited to the Town as liquidation damages for such failure or neglect and indemnify the Town for any loss which may be sustained by failure of the bidder to execute the contract and furnish the bonds as aforesaid, provided that, in case of death, disability, or other unforeseen circumstances affecting the bidder, such bid security may be returned to him/her.

After execution of the contract and acceptance of the bonds by the Town, the bid security accompanying the proposal of the successful bidder will be returned.

4. Time of Completion

The bidder must agree to commence work within ten (10) business days from the date of signing the contract and to fully complete the project within the time specified within the Special Provisions section of this document.

5. Performance and Labor Material Bonds

A bond in the sum of 50% of the total amount of the Contract by the successful bidder and an additional bond in equal amount covering the payment for all labor and materials used in the work will be required. A surety company authorized to do business in Massachusetts and satisfactory to the Town of Arlington must provide these bonds. These bonds will be required at the execution of the contract. Attorneys-in-fact who sign contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

6. Laws and Regulations

The bidder's attention is directed to the fact that all applicable State laws, Town of Arlington Bylaws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they shall be deemed to be included in the contract the same as though herein written out in full.

7. Withdrawal of Bids

Upon proper written request and identification, Bids may be withdrawn only as follows:

- a. At any time before the designated time for the opening of Bids.
- b. Death or serious injury of a principal.
- c. With the written approval of the Town of Arlington Office of the Purchasing Director.
- d. At any time after the expiration of the period during which withdrawal is prohibited provided the bid has not been accepted by the Town.

8. Execution of Contract

The party to whom the contract is awarded shall be required to execute the contract and furnish the bonds duly executed with a satisfactory surety company within 10 days, excluding Saturdays, Sundays, and legal holidays, of the date of the mailing of the notice to the bidder according to the address given by him/her, that the contract is ready for execution.

9. Obligation of Bidder

At the time of the opening of bids, each bidder shall be presumed to have read and to be thoroughly familiar with the contract documents. The failure or omission of any bidder to receive or examine any form, instrument, or documents shall in no way relieve any bidder from the obligation in respect to his bid.

10. Omissions, Discrepancies, Interpretations and Addenda

Should a bidder find discrepancies in, or omissions from, the drawings or contract documents, or should he/she have questions as to the interpretation of the plans or contract documents he/she shall submit such in writing to the Director of Purchasing at least five (5) days before the date herein set for the opening of bids. An interpretation will be mailed by certified mail to prospective bidders at the addresses given by them on or about two (2) days before the opening of bids. Signed copies of all addenda shall be included with the bid; omission of the signed addendum shall be cause for rejection of the bid.

11. Record of Address

Prospective bidders shall at the time plans and specifications are secured place on file with the Director of Purchasing their address, and are required to make any changes necessary to insure that the record is accurate, complete, and up to date.

12. Massachusetts Sales and Use Tax

Materials purchased for permanent installation in the work will be exempt from the Massachusetts Sales and Use tax. Each bidder shall consider this exemption in calculating his/her bid for the work.

13. State Tax Affidavit

Prospective bidders are required to certify that all state tax returns have been filed and all state taxes have been paid in order to be eligible to enter into a contract with the Town on this project. The included form is to be used for this purpose and is to be completed and returned as part of the bid and proposal.

14. Minimum Wage Rates

Prevailing rates for wages for work performed under this Contract will be as predetermined by the Commissioner of Labor and Industries of the Commonwealth of Massachusetts in accordance with the provisions of Sections 26 to 27D, inclusive, of c.149 of M.G.L. A schedule of the prevailing wages is included in the Minimum Wage Rates Section.

15. Sub-bids

No sub bids shall be sought in connection with this Contract.

- 16. All bidders shall submit the following supplemental information with a fee proposal:
- a. Name, address and phone number of a minimum of three (3) references that can vouch for the performance of the bidder
- b. Proof of Liability and Worker's Compensation Insurance Coverage
- c. Completed tax attestation form
- d. Bid deposit

II LOCATION OF WORK

1. Work under this contract includes all labor and materials to perform rehabilitation of two (2) - 5 ft x 7 ft corrugated metal culverts and all necessary and appurtenant requirements associated with completion of the work as detailed in the item specifications. The work is located in the rear parking lot located at the end of Mill Brook Drive at the Arlington High School in the Town of Arlington, Massachusetts.

III PROPOSAL

To the Town of Arlington, Massachusetts, herein called the TOWN, acting through its Town Manager; the undersigned, as bidder, declares as follows:

- a. The only persons or parties interested in this proposal as Principals are named in this proposal;
- b. This proposal is made without collusion with any other Person, firm or corporation;
- c. He has carefully examined the requirements of the proposed work;
- d. This proposal is based solely on his own investigation and research and not in reliance upon any survey, report or representations of any employee, officer or agent of the TOWN; and the undersigned proposes and agrees that if this proposal is accepted, he will contract with the TOWN, this Contract Bid Form being part of and included in said CONTRACT, to provide all necessary supervision, labor, equipment, machinery, tools, apparatus, and other means of service necessary to complete the requirements in the CONTRACT; and that he will take in full payment thereof the following sums to wit:

Bidders must bid on each item. All entries in the Contract Bid Form must be made clearly and in ink, and prices must be written in both words and figures in the space provided. Bidders should insert computed totals in the spaces provided therein:

DEFINITIONS OF ITEMS

ITEM#

1. Repair Existing Culvert:

Work under this item shall consist of the removal of all sediments and other accumulated materials and debris inside the culvert, inspection of the existing pipe and preparing an evaluation report, provide a hydraulic analysis and restore the culvert (host pipe) in preparation for pipe lining, and filling voids outside the pipe.

Payment shall be made by Lump Sum.

2. Grout: Controlled Low Strength Material for Pipe and Invert Repair:

This work consists of filing all voids around the host pipe identified after cleaning. Grout utilized for invert repair shall be a Controlled Low Strength Material and shall fill all voids. Material shall be abrasion resistant and corrosion resistant mortar, utilize cements and additives including rust inhibitors and when mixed with the appropriate amount of water, be a self consolidating free flowing material that will develop with high 24 hour compressive strength and adhesion resulting in a dense and impermeable hardened material.

Payment shall be made by the Cubic Yard.

3. 5 ft x 7 ft CMP CULVERT REHABILITATION: PIPE LINING,

This work consists of the rehabilitation of the interior of the existing host pipe by the insertion of a pipe liner using an acceptable and proven pipe lining system. The culvert lining method shall utilize either a Spiral Wound Polyvinyl Chloride Pipe liner (SWP) or a Culvert Reline Model Specification utilizing Profile Wall (ASTM F-894) HDPE Pipe. The liner pipe shall be inserted through the host pipe and the voids or annulus between the host pipe and liner pipe will be filled with grout.

Payment shall be made by the Lineal Foot.

4. 36" DIAMETER PIPE REHABILITATION: PIPE LINING:

This work shall consist of the re-lining of the existing 36" pipe indicated on Sketch #2 - Schematic Drain Layout Sketch. The length of existing 36" host pipe consists of approximately 100 feet of reinforced concrete pipe and 25 feet of corrugated metal pipe. Work shall include any cleaning or invert repair necessary to allow a suitable SWP or HDPE pipe liner to be inserted to rehabilitate the existing drain line.

Payment shall be made by the Linear Foot.

Proposals are for Culvert Rehabilitation at Arlington High School in the Town of Arlington, MA. The project Scope of work will include all work necessary to rehabilitate the existing host pipes as listed:

- 1. Two (2) 5 ft x 7 ft Corrugated Metal Pipes, each approximately 207 feet in length
- 2. One (1) 36" diameter pipe (100 ft RCP, 25 ft CMP)

A Pre-Bid Meeting will be held at the site on Tuesday, June 18, 2013 at 1:00pm to allow for site observations. The culvert is located in the rear parking lot of the Arlington High School at the end of Mill Brook Drive.

IV SCOPE OF WORK

1. Culvert Rehabilitation at Arlington High School.

Scope of Work consists of the cleaning, inspection and re-lining of two (2) - 5 ft x 7 ft corrugated metal pipes including lateral re-connections and the lining of a 36" corrugated metal pipe. Project shall consist of all work required to complete the re-lining process including sediment & turbidity control, site cleanup, removal, handling, storage and disposal of materials as well as by-pass pumping and flow diversion if necessary.

2. General

All work performed under this contract shall be in conformance with the Commonwealth of Massachusetts Department of Public Works STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 26, 1989, THE SUPPLEMENTAL SPECIFICATIONS DATED AUGUST 7, 1991, THE 1977 CONSTRUCTION STANDARDS, THE 1988 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, the 1981 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, and these SPECIAL PROVISIONS.

V SPECIAL PROVISIONS

1. Definition of Terms

All reference to Department herein and in the Commonwealth of Massachusetts, Standard Specifications for Highways and Bridges, 1988, shall refer to the Owner" as the Department of Public Works of the Town of Arlington."

2. Work Schedule

Work on this project is restricted to between the hours of 7:00am and 6:00pm, 5-days/week, with the Prime Contractor and all Subcontractors working on the same shift. No work shall be performed on this Contract on Saturdays, Sundays, or Holidays without prior approval from the owner.

3. Time of Completion

The work specified under this contract shall be completed by August 27, 2013.

4. Performance, Labor and Material Bonds

A bond in the sum 50% of the total amount of the Contract by the successful bidder and an additional bond in equal amount covering the payment for all labor and materials used in the work shall be required. A surety company authorized to do business in Massachusetts and satisfactory to the Town of Arlington must provide these bonds. These bonds shall be required at the execution of the Contract. Attorneys-in-fact who sign contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

5. Bid Submission

Each bid must be submitted in a sealed envelope bearing on the outside the name of the bidder, his/her address, and the name of the project for which the bid is submitted, and the name and number of the Contract for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as follows:

Bid Documents
Purchasing Director
BID # 13-12, ARLINGTON HIGH SCHOOL CULVERT REHABILITATION

Town of Arlington Town Hall, 730 Massachusetts Avenue Arlington, Massachusetts 02476

The Owner will receive sealed bids until the time, and at the location designated in the Notice to Contractors. Bids received after this time will not be accepted. All interested parties are invited to attend; bids shall be opened publicly and read aloud.

6. Interpretation of Basic Estimate of Quantities

Attention is directed to the fact that the quantities of work to be done are based on observations and available data. The estimated quantities are approximate and should be used only as a guide. No quantities are guaranteed under this contract.

7. Prosecution of Work and Provisions for Travel

The Contractor shall give notice in writing to the Engineer at least seven days in advance of beginning any work affecting the maintenance of traffic where work affects the street in use by the public.

Before starting any work under this Contract, the Contractor shall submit his schedule of operations as provided herein.

The Contractor must prosecute the work efficiently and with the least possible delay.

The Contractor shall provide safe and convenient means of access to all buildings of property along the line of work at all times, coordinate the scheduling of safety and traffic details with the Arlington Police Department, and provide notification to the Arlington Department of Public Works and direct abutters at least one (1) business day prior to commencement of work adjacent to said abutter property.

8. Provisions for Access at All Locations

The Contractor shall cooperate with the various utility companies and provide access through a worksite if required for their work in connection with this project.

All permanent and temporary surfaces open for traffic during construction shall be maintained by the Contractor, as directed, in accordance with the provisions of herein.

THE TOWN WILL NOT ACCEPT ANY MATERIALS DELIVERED TO ANY PROJECT IN MOTOR VEHICLES OR SEMI-TRAILER UNITS THAT EXCEED THE LEGAL MAXIMUM GROSS WEIGHT ALLOWED FOR THE PARTICULAR CLASS, AS SPECIFIED IN SECTION 19 A OF CHAPTER 90 OF THE GENERAL LAWS OF MASSACHUSETTS.

9. Insurance Requirements

The limits of the several kinds of liability insurance required for this Contract, in addition to insurance for Workmen's Compensation are as listed as follows:

- a. Bodily Injury Liability insurance, in an amount not less than Five Hundred Thousand Dollars (\$500,000) for injuries, including wrongful death to any one person, and subject to the same limit for each person to an amount of not less than One Million Dollars (\$1,000,000) as account of one accident.
- b. Broad Form Property Damage Liability Insurance in an amount not less than Five Hundred Thousand Dollars (\$500,000) for damages on account of any one accident, and in an amount not less than One Million Dollars (\$1,000,000) for damages on account of all accidents.

- c. Automobile Bodily Injury Liability Insurance, in an amount not less than Five Hundred Thousand Dollars (\$500,000) for injuries, including wrongful death to any one person and subject to the same limit for each person in an amount not less than One Million Dollars (\$1,000,000) on account of one accident.
- d. Automobile Property Damage Insurance in an amount not less than Five Hundred Thousand Dollars (\$500,000) for damages on account of any one accident and in an amount not less than One Million Dollars (\$1,000,000) for damages on account of all accidents.
- e. Contractors Public Liability Insurance in an amount not less than Five Hundred Thousand Dollars (\$500,000) for each occurrence and in an amount not less than One Million Dollars (\$1,000,000) annual aggregate.

10. Maintenance of Traffic

During construction, the Contractor shall maintain an unobstructed lane of travel along the asphalt driveway located to the north of the Athletic Field at all times. Driveway is utilized by student population before, during and after school. The Contractor shall make every effort to maintain access at all times. Reflective barrels, warning flagging, construction signage and other devices deemed necessary by the Engineer shall be utilized to direct pedestrian traffic safely past the construction zone. All work left unattended shall be barricaded/demarcated with suitable work safety devices.

All signs, barricades, and barrels shall be in accordance with materials Specification M9.30.2 of the Department's "Standard Specifications for Highways and Bridges, 1988 Edition.

11. Protection of Utilities and Property

The Contractor shall be responsible for maintenance and protection of all utilities and shall repair at his/her own expense any damage to such structures caused by his/her act or neglect, and shall leave them in as good condition as they were previous to the commencement of the work. In cases of damage to utilities caused by him resulting in an emergency, the Contractor shall promptly warn the Owner and shall, if requested, furnish laborers to work temporarily under the Owner's direction in getting access to the utility. Pipes or other structures damaged by the operation of the Contractor may be repaired by the Town, Department or Company, which suffers the loss. The cost of such repairs shall be at the expense of the Contractor.

12. Notice to Owners of Utilities

When necessary, written notice shall be given by the Contractor to all public service corporations or officials owning or having charge of publicly or privately owned utilities of his/her intention to commence operations affecting such utilities at least one week in advance of the commencement of such operations, and the Contractor shall at that time file a copy of such notice with the Engineer.

Before the Contractor begins any work or operations, which might damage any subsurface structures, he shall carefully locate all such structures and conduct his/her operations so as to avoid any damage to them. The following are the names and addresses of the utilities presumed to be affected, but the completeness of the list is not guaranteed:

Town of Arlington Town Engineer, Wayne A. Chouinard P.E. (781- 316- 3320) 51 Grove Street Arlington, MA. 02476

Town of Arlington
Water/Sewer/Highway, Operations, Jim Dodge (781- 316 -3373)
51 Grove Street
Arlington, Ma. 02476

National Grid (Gas) (781-466-5099) John J. Warchol 52 Second Ave Waltham, MA 02451

Verizon (781-939-3562) Bob Parks 285 Locust St #1 Woburn, MA 01801

N-Star Corp. (617-541-7071) One Nstar Way SW-340 Westwood, MA 02090



DEPARTMENT OF PUBLIC WORKS - ENGINEERING TOWN OF ARLINGTON

51 Grove Street Arlington, Massachusetts02476 Telephone (781) 316-3320 Fax (781) 316-3281

PROJECT TITLE: BID #13-12 CULVERT REHABILITATION AT ARLINGTON HIGH SCHOOL

ITEM#	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
	1	LS	REPAIR EXISTING CULVERT		
1					
			GROUT - PIPE AND IN VERT REPAIR		
2	20	C.Y.			
			5 FT x 7 FT CMP CULVERT REHABILITATION WITH PIPE LINING		
3	414	L.F.			· · ·
	PARTY.				
4	125	L.F.	36" PIPE REHABILITATIO N WITH PIPE LINING (25ft CMP, 100' RCP)		
5					
6					
1.13	-34.43				
7					
<u> </u>	2007/2014/20				
8					
1, 1, 1, 1	95 x 3 x 5 74.	N. (2.2.2. 2.2.			
9		ASHA			
* **					
10					
				TOTAL BID PRICE:	· · · ·

*Prices must be in writing and in figures.

TOTAL BID PRICE IN WORDS:
FIRM NAME:
NAME PRINCIPAL:
ADDRESS:
AUTHORIZED SIGNATURE:
DATE:
CONTACT NAME:
TELEPHONE:
FΔY·

CERTIFICATE OF NON-COLLUSION

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

(Signature of individual submittir	ng bid or proposal)
(Name of individual submitting b	id or proposal)
Name of Business	
Date	
that I have complied with all laws	Section 49A, I certify under the penalties of perjury of the commonwealth relating to taxes, reporting of the thickness it is and remitting child support.
Social Security Number or	Signature of Individual or Responsible

NON-COLLUSION FORMS MUST BE SIGNED AND

SUBMITTED WITH BID

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Appendix B: Technical Specifications

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-	Item #2	Grout: Controlled Low Strength Material For Pipe and Invert Repair
-	Item #3	5 ft x 7 ft Culvert Rehabilitation with Pipe Lining
-	Item #4	36" Diameter Pipe Rehabilitation with Pipe Lining
_	Item #5	Special Conditions

Appendix C: Construction Document List

APPENDIX A

GENERAL INFORMATION

Introduction

The Town of Arlington Department of Public Works is seeking qualified contractors to perform culvert rehabilitation to a portion of the Mill Brook Culvert at the Arlington High School parking lot located at the western end of Mill Brook Drive. The project goal is to rehabilitate the two (2) existing elliptical corrugated metal pipes (CMP) located side by side and beneath the parking lot as indicated in Plan #1 AsBuilt Box Culvert Plan.

Existing Information

Mill Brook is a significant water course in the Town of Arlington, with a tributary area of approximately 5.8 square miles. Mill Brook begins in the western portion of Arlington, beginning at the confluence of the Arlington Reservoir primary outlet where it combines with Sickle Brook and continues 2.84 miles at its terminus where it flows into the Lower Mystic Lake. Land surface in Arlington consists of approximately 41% impervious area and as such, street drainage and stormwater infrastructure conveys stormwater runoff rapidly to Mill Brook where water levels can fluctuate dramatically in a short period of time.

Mill Brook enters the High School property underground in a 5ft x 8 ft pre-cast concrete culvert. This culvert, approximately 800 feet long was installed in 2004-2005. This culvert contains a concrete flow separation baffle located in the center of the culvert that splits the flow of Mill Brook. The flow separation baffle gradually increases in height until it connects at the end of a twelve (12) foot long concrete transition structure and conveys equal flow to each of the 5ft x 7ft CMP culverts. The culverts are approximately 207 feet long and the discharge flow from outlets at a concrete headwall into a natural area adjacent to Mill Brook Drive which then continues downstream.

APPENDIX B

DIVISION 2

TECHNICAL SPECIFICATIONS

CULVERT REHABILITATION AT ARLINGTON HIGH SCHOOL

ARLINGTON, MASSACHUSETTS

The following technical specifications are for the rehabilitation of two (2) 5 ft x 7ft corrugated metal pipes and one (1) 36" drain line located beneath the Arlington High School Parking Lot at the end of Mill Brook Drive in Arlington Massachusetts. The specifications are intended to describe the steps to be taken to ensure the quality of construction and materials used and to ensure that the work is performed as required.

Amendments and clarifications to these specifications may be made by the ARLINGTON DEPARTMENT OF PUBLIC WORKS prior to or during construction to account for field conditions and other necessary construction adjustments.

SPECIFICATIONS:

<u>Item #</u>	<u>Description</u>
1	Repair Existing Culvert
2	Grout: Controlled Low Strength Material For Pipe and Invert Repair
3	5 ft x 7 ft Culvert Rehabilitation with Pipe Lining
4	36" Diameter Pipe Rehabilitation with Pipe Lining
5	Special Conditions

APPENDIX B

TECHNICAL SPECIFICATIONS

ITEM #1: REPAIR EXISTING CULVERT

DESCRIPTION:

Work under this item shall consist of the removal of all sediments and other accumulated materials and debris inside the culvert, inspection of the existing pipe, preparation of an evaluation report, provide a hydraulic analysis and restore the culvert (host pipe) in preparation for pipe lining, and filling voids outside the pipe.

MATERIALS:

No materials are required for this item. For material requirements for fill placed in voids outside the culvert pipe, please refer to Item #2 Grouting: Controlled Low Strength Material for Invert Repair.

CONSTRUCTION METHODS:

Clean Existing Culvert

Before cleaning activities begin, inspect existing culvert and determine cleaning method to utilize and develop a plan for removing materials from the pipe and for controlling sediments, debris and other accumulated materials during the cleaning and sediment removal process. The plan shall address the proposed cleaning methods and how the cleaning methods will not damage the culvert, particularly the invert, which could be distressed if heavy equipment is used to move debris through the culvert.

Control and divert existing stream or groundwater flow during cleaning activities. Use of high velocity hydraulic cleaning equipment and industrial air mover, or mechanically powered equipment to clean the culvert is acceptable. For large diameter pipes where human entry is possible, the use of non-mechanically powered cleaning equipment is also acceptable. Any damage caused to the culvert by the Contractor shall be repaired at the Contractor's expense.

All sediment, debris and other accumulated material removed from within the culvert shall be removed and placed in the Sediment Storage Area designated on the Staging Area sketch. Material shall be placed entirely on poly tarps and covered with secured poly tarps at the end of each work day. The Town will be responsible for submitting a sediment sample to a laboratory for testing. If it is determined that the sediment is clean the contractor will responsible for disposal, otherwise the material shall be left in place and the Town will be responsible for disposal. This work is shall be considered incidental to this item.

Inspect Existing Culvert

After cleaning, the culvert shall be inspected with CCTV or video equipment as noted below. During inspection, review, log and comment on conditions that require attention before installation of pipe liner. Inspect entire length of culvert and document the condition and location of:

- 1. Any condition that might prevent proper installation of pipe liner or invert paving
- 2. Protrusions
- 3. Collapsed or crushed areas
- 4. Reduced cross sectional area
- 5. Each culvert pipe joint

During inspection, perform additional cleaning as required to obtain acceptable quality of video scans and digital photographs and the required level of cleaning under manufacturer's recommendations for the type of pipe liner to be installed. The Engineer may stop inspection and require additional cleaning before allowing the Contractor to proceed with further inspection No additional payment will be made by the Department if additional cleaning is performed.

During human entry inspection, hand held video camera and lighting and digital photo camera to record inspection of host pipe can be used. Lighting and picture quality must be suitable to provide a clear, infocus picture of entire periphery of culvert pipe under all conditions.

Electronic Media:

CCTV recording must be made in high quality digital media such as CD or DVD

Record and label all audio and video media for incorporation into inspection and evaluation report. Audio and video media must include the following information:

1. Video:

- Recording number
- Inspection date
- Current distance along host pipe
- Encoded text description of location, host pipe size, type and length
- Printed labels on video recording hard copy with location and date

2. Audio:

- Inspection date
- Description of host pipe size, type and length
- Description and location of each defect
- Description of flow direction

Retain a copy of all inspection documentation (compact disks, memory sticks, databases, and logs) for duration of work.

<u>Inspection and Evaluation Report:</u>

After completing culvert cleaning and inspection, submit a written inspection and evaluation report within 7 days in accordance with "Submittals" below. Include 2 copies of the video recording and one set of digital photographs. The Engineer will review the submitted sample video recordings and inspection logs to determine if the quality of the video and still images are acceptable and defects were properly identified and documented.

Host Pipe Restoration Plan:

Once the Inspection and Evaluation Report is accepted, the Contractor shall develop and submit a Host Pipe Restoration Plan in accordance with "Submittals" below. Restoration of the culvert may begin once the Plan has been approved. Under the plan, protrusions of portions of the existing pipe into the culvert that may prevent placement of reinforcing, an adequate thickness of grout or the liner itself, shall be removed by methods approved by the Engineer.

Filling voids around the outside of the culvert pipe shall be addressed with the submittal for the Host Pipe Restoration Plan, as outlined in "Submittals" below.

Invert Voids: Before installing new pipe liner, completely fill voids of host pipe invert with

Controlled Low Strength Material. Material placement shall be controlled in lifts to prevent material from filling inside the culvert through perforations in the pipe

and reducing the cross section of the pipe.

Wall Voids: Inject voids behind host pipe wall with Controlled Low Strength Material, as ordered by the Engineer" Ports may need to be created in the culvert wall to

access hollow areas outside the pipe and to ensure that voids are completely filled Care shall be taken to prevent material from spilling into the inside of the culvert

and from flowing into the waterway.

The Contractor must provide CCTV video recording post cleaning and post repair of the host pipe with audio commentary showing operational and structural defects in the host pipe. In the video, the Contractor must identify the location of the structural defects of the host pipe in respect to the inlet or outlet. If the culvert is large enough for human entry, the second video inspection will not be required if the Engineer can enter and inspect the restored host pipe.

SUBMITTALS:

Submit the following:

- 1. Hydraulic Analysis: The contractor shall submit a written analysis comparing existing and proposed hydraulic conditions for the culvert. Submittal shall be stamped by a Massachusetts Professional Engineer and demonstrate hydraulic equivalency for the proposed pipe lining considering full flow conditions, slope, material, dimensions and shape. The proposed conditions must indicate flow conditions equal to or greater than the existing culvert.
- 2. Culvert Cleaning Plan: The contractor shall submit a written plan for approval for cleaning the culvert of all debris and sediment. The plan shall include the following:
 - a. Proposed handling of water for both by-pass pumping and/or flow diversion
 - b. Proposed cleaning methods, including protection of the existing pipe
 - c. Plan for control of sediments dislodged during cleaning
 - d. How the Contractor will dispose of the debris and sediment
- 3. Inspection and Evaluation Report: The Contractor must conduct the Closed Circuit Television (CCTV) inspection of the culvert and submit digital photographs and video recording of the inspection. After completing host pipe inspection, the Contractor shall submit a written inspection and evaluation report within 5 days, including two (2) copies of the video recording and one (1) set of digital photographs and shall comply with these requirements:
 - a. Document the location of conditions that might prevent pipe liner installation or cause the liner to be punctured, torn or otherwise damaged.
 - b. Document perforations in the pipe and all voids along the invert and outside the culvert. The Engineer will review video recordings, digital photographs, and inspection and evaluation report within 5 business days.

- 4. <u>Host Pipe Restoration Plan:</u> Submit a plan describing the following:
 - a. Proposed repairs of the culvert (host pipe) or a statement that no repairs are required before lining. The term "repairs" refers to removal of conditions found that might prevent proper installation of pipe liner, including removal of any sharp or protruding appurtenances that might snag or tear the pipe liner.
 - b. The size and location of protrusions or obstructions along the culvert and around the cross section.
 - c. The method of removal of protrusions to restore the culvert cross section to provide adequate clearance to install the liner.
 - d. The location and size of voids to be filled below the invert of the culvert and behind the culvert wall.
 - e. How voids will be filled at the invert and behind the culvert wall with controlled low strength material. Include:
 - Sequence of Work
 - Maximum injection pressures
 - Plans for controlling ground water and existing culvert stream flows
 - Pressure gauge, recorder, and field equipment certifications including calibrations by an approved certified laboratory
 - Schedule of grout port installations and method for obtaining probe depth dimensions at grout ports; tabulation of locations and dimensions
 - Proposed method for monitoring deformation of culvert
 - Plan for controlling grout during repair of host pipe and filling of voids around the host pipe

METHOD OF MEASUREMENT:

This work will be paid for on a lump sum basis and will not be measured for payment.

BASIS OF PAYMENT:

This work will be paid for at the contract lump sum price for Item #1: Repair Existing Culvert, which price shall include cleaning, removal and disposal of debris and sediment, inspecting, preparing a hydraulic analysis, preparing an evaluation report and restoration plan, control and diversion of water flows during the inspection, removal of any protrusions or appurtenances necessary for pipe liner insertion and all other requirements necessary for the preparation for lining the culvert including all labor, materials, tools, equipment and work incidental thereto.

Filling of the voids around the pipe will be paid for separately in accordance with <u>Item #2: Grouting:</u> <u>Controlled Low Strength Material For Invert Repair.</u>

Pay Item:	
Repair Existing	Culvert

Pay Unit: Lump Sum ITEM #2: GROUT: CONTROLLED LOW STRENGTH MATERIAL FOR PIPE AND INVERT REPAIR

DESCRIPTION:

Grout shall be utilized to fill all voids around the host pipe to repair the existing invert and pipe structure where necessary prior to pipe lining.

MATERIALS:

Grout utilized for invert repair shall be a Controlled Low Strength Material and shall fill all voids for the host pipe after cleaning. Material shall abrasion resistant and corrosion resistant mortar, based on advanced cements and additives including rust inhibitors and when mixed with the appropriate amount of water, a self consolidating free flowing material will develop with high 24 hour compressive strength and adhesion resulting in a dense and impermeable hardened material.

Water content may be adjusted to achieve consistencies ranging from free flowing to plastic.

CONSTRUCTION METHODS:

The Contractor shall be responsible for utilizing the appropriate grout mixtures and installation methods for the filling of voids as part of the repair of the host pipe and as required by the pipe liner manufacturer to be suitable and in conformance with the requirements of the applicable pipe liner.

METHOD OF MEASUREMENT:

Due to the unknown nature of the extents of voids present around the existing host pipe this work will be paid for on a cubic yard basis for payment and shall include all work, material, labor, design, testing or other requirements incidental to the preparation and placement of the grout.

Pay Item:

Grout: Controlled Low Strength Material for Invert & Pipe Repair

Pay Unit:

Cubic Yard

ITEM #3: 5 ft x 7 ft CULVERT REHABILITATION WITH PIPE LINING

DESCRIPTION:

This Work consists of the rehabilitation of the interior of existing host pipe by the insertion of a pipe liner using an acceptable and proven pipe lining system. The culvert lining method shall utilize either a Spiral Wound Polyvinyl Chloride Pipeliner (SWP) or a Culvert Reline Model Specification utilizing Profile Wall (ASTM F-894) HDPE Pipe. The liner pipe will be inserted through the host pipe and the voids or annulus between the host pipe and liner pipe will be filled with required grout specified by pipe liner manufacturer.

The liner pipe shall be capable of being joined into continuous lengths by an approved method. The joints shall not create an increase in the outside diameter of the liner pipe to eliminate coupling hang-ups. The joints must be watertight and capable of handling pressures in excess of 25 feet of head per ASTM D-3212.

Work shall also include the reinstatement of all existing connections to the culvert (see Sketch #2 – Schematic Drain Layout Sketch). Connections and joints shall be grouted to ensure a water tight connection and complete filling of any voids at the connection joint.

The completed culvert rehabilitation shall result in a culvert design service life in excess of 50 years and the liner shall provide a stand-alone structural capacity to support the existing soil load, resist groundwater pressures and support heavy duty vehicular loads (H-20 Loading) with the existing CMP pipe and grouting factored out.

MATERIALS:

All products used shall adhere to the appropriate manufacturer recommendations and be consistent with applicable ASTM Reference Specification for the selected culvert liner product and installation method and materials shall conform to the following requirements suitable to the applicable lining methodology:

- 1. Culvert Reline Model Specification utilizing Profile Wall (ASTM F-894) HDPE Pipe,
 - a. General: The pipe shall be manufactured per the requirements of ASTM F-894 with dimensions and tolerances in accordance with the manufacturer's internal manufacturing standards. The nominal inside diameter of the pipe shall be true to the specified pipe size. The pipe shall be manufactured by the winding of high density polyethylene profile or profiles onto suitably sized mandrels. It shall be produced to constant internal diameters.
 - b. Material: The pipe shall be manufactured from a high density polyethylene PE3408/3608 material which meets or exceeds the minimum cell classification 334433C or higher when classified in accordance with ASTM D3350.
 - c. Manufacturing: The sections of pipe shall have the a minimum Ring Stiffness Constant (RSC) of 160 Lb./Ft as defined in ASTM F894. The pipe shall be closed profile as defined by ASTM F-894 and manufactured in laying lengths of 20 feet with plain ends for extrusion welding, however, shorter lengths will be allowed where needed.
- 2. Spiral Wound Polyvinyl Chloride Pipe liner (SWP)
 - a. General: <u>SWP Pipe Liner</u>: The pipe shall be manufactured per the requirements of Polyvinyl chloride (PVC) compounds and ribbed polyvinyl chloride (PVC) pipe liner nominal width, nominal height, minimum liner strip thickness and minimum moment of inertia shall conform to ASTM F1697, ASTM F1698, ASTM F1735 or ASTM F1741. <u>Steel Reinforcing</u>: Steel reinforcing shall be selected by the PVC liner supplier to provide

adequate support of the design loads specified in Appendix A of this specification. Circumferential reinforcing shall be fabricated from zinc-galvanized coated steel or AISI Type 316 stainless steel and must comply with ASTM A879/A879M, ASTM A167, ASTM A176, ASTM A924/A924M or ASTM A653/A653M. Deformed steel bars for longitudinal reinforcing shall conform to the requirements of ASTM A615, Grade 60.

- b. Material: The pipe shall be manufactured from a high density polyethylene PE3408/3608 material which meets or exceeds the minimum cell classification 334433C or higher when classified in accordance with ASTM D3350.
- c. Manufacturing: The sections of pipe shall have the a minimum Ring Stiffness Constant (RSC) of 160 Lb./Ft as defined in ASTM F894. The pipe shall be closed profile as defined by ASTM F-894 and manufactured in laying lengths of 20 feet with plain ends for extrusion welding, however, shorter lengths will be allowed where needed.
- 3. Grout: Grout mix design shall be as required and recommended by the supplier of the utilized pipe liner and reviewed prior to commencement of work. The characteristics of the Contractor-proposed grout mix design shall be verified by tests of sample mixes by an independent, certified testing laboratory. These tests shall include density, flow characteristics, compressive strength at 28 days and shrinkage in accordance with the applicable ASTM specification when testing for compliance with this specification.

Unless otherwise specified, references to ASTM documents shall mean the latest documents in effect at the time of Advertisement for Bids or Invitation for Bid. If referenced documents have been discontinued by the issuing organization, references to those documents shall mean the replacement documents issued or otherwise identified by that organization or, if there are no replacement documents, the last version of the document before it was discontinued.

CONSTRUCTION METHODS:

The Contractor shall be completely responsible for the design of the culvert liner system.

- 1. Safety: The Contractor shall carry out operations in strict accordance with all applicable OSHA standards. Particular attention is drawn to those safety requirements involving working in confined spaces.
- 2. Licensure and Experience Requirements: The Contractor shall assign a Professional Engineer, licensed in the State of Massachusetts, to design the work. The Professional Engineer shall have had supervisory experience on multiple projects of similar scope over the past 3 years.
- 3. Culvert Liner Design: Upon completion of the culvert re-lining, the culvert must be able to provide a structural capacity to support the existing soil and heavy duty vehicular loads (H-20 Loading). The liner itself shall be able to provide suitable structural support with the existing CMP pipe and grouting factored out.

SUBMITTALS:

Submit the following:

1. Working Drawings, Design Computations and Load Rating Submittals: prior to fabrication, the Contractor shall submit working drawings, design computations and load ratings to the Engineer for review.

The analysis and design computations shall include sketches showing all load applications and variables used.

The working drawings, design computations and load ratings shall be sealed by a Massachusetts licensed Professional Engineer who shall also be available for consultation in interpreting his computations and drawings, and in the resolution of any problems which may occur during the performance of the work. Please note that each working drawing must be sealed.

The load rating computations shall be independent from design calculations. The load rating computations shall contain a summary sheet indicating the controlling component and mode of failure for the overall load ratings, a copy of all relevant details, general notes and any assumptions made in the calculations, software input and output files and any backup calculations used for the input

The working drawings, design computations and load ratings shall be submitted in paper (hard copy) form and in an electronic portable document format (.pdf), and in accordance with the following requirements:

The working drawings shall include layout, fabrication, and installation drawings. The drawings shall include, but not be limited to the following:

- Layout plan of culvert.
- Fabrication drawings including a plan and cross-section for each unique section showing line dimensions, minimum grout thickness and reinforcing steel (if required).
 - o Type, size, location and spacing of circumferential and longitudinal steel reinforcing
 - o Material designations for liner, reinforcing and grout and for any other materials incorporated into the final design
 - o Pipe liner profile type and cell classification
- If necessary show any modification required to line host pipe with profiled PVC liner including restoring host pipe wall thickness. Should an internal bracing system be needed to support the liner during grouting, indicate the details of the bracing, when it may be installed and when it may be removed.
- Installation procedure, including a step-by-step description of work. The installation procedure must be consistent with water handling shown on the contract plans or with the system proposed by the Contractor and accepted by the Engineer.
- 5. Certificate of Compliance: Submit a Certificate of Compliance for pipe liner products utilized in the project.

Certificate of Compliance must include:

- a. Name of manufacturer
- b. Plant where material was made
- c. Date of manufacturer and shift
- d. Cell classification
- e. Unit mass
- f. Average pipeline stiffness and profile type
- g. Tested and inspected in accordance with the specification
- h. Signed by an authorized agent of the manufacturer
- 6. **Grout Plan** (Annular Space): Submit a separate grout plan for each kind of grout or variation in procedure or installation and the locations or conditions to which each applies Before grouting activities start the Contractor may change the grout mix, procedure or installation if the Engineer approves, Grout plan must include:

- A grout mix design, including all material designations, gradations, mix proportions and water content Certified test data by an independent testing Laboratory shall verify density, flow characteristics, initial set time and working time before 15 percent change in viscosity occurs, compressive strength at 28 days and shrinkage
- Proposed grouting method, including sequence and procedures
- Proposed grout stage (lift) height and volumes (e,g" Stage 1. to spring line; Stage 2, fully grouted)
- Bulkhead designs and locations
- Written confirmation that the Contractor has coordinated grouting procedures with grout installer and pipe liner manufacturer (unless the Contractor will perform grouting procedure)
- Plans for controlling ground water and existing culvert stream flows
- Proposed method for monitoring deformation of pipe liner
- 7. Pre-installation Meeting: A meeting with the Contractor will be scheduled by the Engineer and held prior to the start of installation. The meeting will be conducted to discuss and clarify the construction requirements for the work and to answer any concern about the project

Grout must be placed in a continuous manner and injected in lifts not exceeding height designated in the grouting plan. or less if needed to avoid floating, shifting or deforming pipe liner. Monitor injection pressure including last lift at crown. If pipe liner cannot withstand grouting pressure or static head, then maximum pressure at point of grout injection must be reduced or staged grouting must be employed.

The end of the pipe liner at the termination point should be fully restrained. The space between the pipe liner and the existing pipeline should be sealed at the end with cement concrete or with sealing material that is compatible with the pipe liner material.

After grouting is completed, the liner must be tested by sounding for complete filling of the annular space with grout. A "hammer test" shall be performed by the Owner's representative on the interior wall surfaces of the lined pipe to check for voids in the grout annular space The "hammer test" shall consist of tapping on the interior liner surface to determine the location and size of voids within the annular space. Voids detected during this process shall be measured to determine the extent of the void. Voids found larger than 6 inches in circumferential extent shall be filled by drilling a hole into the void, pumping grout into the void, and then plugging the grouting holes with a PVC plug at the Contractor's own expense.

After the installation work has been completed and testing accepted, the Contractor shall clean up the project area affected by his operations. All excess material and debris not incorporated into the permanent installation shall be disposed of off-site in a lawful manner by the Contractor, or as indicated otherwise in these specifications. No waste material or construction debris shall be permitted to remain in the pipe line

METHOD OF MEASUREMENT:

This work will be measured for payment by the linear foot of pipe liner installed and accepted. The length will be determined by the inside length of liner installed as measured along the invert.

There will be no additional payment for liner installed beyond the length of the host pipe.

BASIS OF PAYMENT:

This work will be paid for at the contract unit price per lineal foot of pipe liner. Price per lineal foot shall include all materials (including grout), labor, tools, equipment, and incidentals, and for all the work involved in furnishing, installing or construction of pipe liner, complete in place, including grouting, sampling, testing, inspecting and lateral connections as shown on the plans and as directed by the Engineer.

Controlling groundwater, by-pass pumping, sediment and turbidity control and diversion of existing culvert stream flows will be considered incidental to the completion of this work and will not be paid separately.

Pay Item:

5 ft x 7 ft Culvert Rehabilitation with Pipe Lining

Pay Unit:

Lineal Foot

ITEM #4: 36" PIPE REHABILITATION WITH PIPE LINING

DESCRIPTION:

This work shall consist of the re-lining of the existing 36" pipe indicated on Sketch #2 - Schematic Drain Layout Sketch. The length of existing 36" host pipe consists of approximately 100 feet of reinforced concrete pipe and 25 feet of corrugated metal pipe. Work shall include any cleaning or invert repair necessary to allow a suitable SWP or HDPE pipe liner to be inserted to rehabilitate the existing drain line.

MATERIALS:

Materials required for this item shall be consistent with the material requirements for Item #3 except for the dimensional requirements.

For material requirements for grout placed in voids outside the culvert pipe, please refer to Item #2.

CONSTRUCTION METHODS:

Procedures and requirements for this Item shall conform and adhere to all requirements for Item #3 with the exception of the dimensional requirements of the pipe liner.

METHOD OF MEASUREMENT:

This work will be measured for payment by the linear foot of pipe liner installed and accepted. The length will be determined by the inside length of liner installed as measured along the invert.

There will be no additional payment for liner installed beyond the length of the host pipe.

BASIS OF PAYMENT:

This work will be paid for at the contract unit price per lineal foot of pipe liner. Price per lineal foot shall include all materials (including grout), labor, tools, equipment, and incidentals, and for all the work involved in furnishing, installing or construction of pipe liner, complete in place, including grouting, sampling, testing, inspecting and lateral connections as shown on the plans and as directed by the Engineer.

Controlling groundwater, by-pass pumping, sediment and turbidity control and diversion of existing culvert stream flows will be considered incidental to the completion of this work and will not be paid separately.

Pay Item:

26 inch diameter Pine Pehabilitation with Pine Lining

Line I Fee

36 inch diameter Pipe Rehabilitation with Pipe Lining Lineal Foot

ITEM #5: SPECIAL CONDITIONS:

- 1) The work zone and staging area available to the contractor are indicated in Sketch #1 Staging Area Sketch. All work, equipment, stockpiles, materials and storage incidental to this project must be contained within this area. Any additional requirements for associated work or storage outside of this area shall require prior approval from the Arlington Engineering Division.
- 2) The project shall be performed during the summer-time season while the regular school year is out of session. The project shall be completed and the site cleaned up and surface conditions restored to original conditions prior to August 27, 2013.
- 3) The Town of Arlington Engineering Division will prepare and submit the required permit request/s to the Arlington Conservation Commission and Department of Environmental Protection. It is the contractor's responsibility to perform all necessary and required work for the project in conformance with any issued permit requirements and conditions. It is anticipated that permitting will be completed on or about July 12, 2013
- 4) Maintenance, protection, upkeep and removal of any by-pass pumping or temporary flow diversion shall be the responsibility of the contractor and shall be considered incidental to the project. All precautions shall be taken to ensure the safety of personnel, equipment and material. It is the responsibility of the contractor to remove all material, products or equipment utilized for providing by-pass pumping or temporary flow diversion upon completion of the project.

APPENDIX C

Construction Document List

$\overline{\mathbf{m}}$	Plans/Sketches/Figures	<u>Date</u>
Locus	Arlington High School Locus Map	
Plan #1	As-Built Box Culvert Plan	3/04/2005
Plan #2	Arlington High School Site Grading & Storm Drainage Plan	7/07/1978
Sketch #1	Staging Area Sketch	
Sketch #2	Schematic Drain Layout Sketch	

CONTRACT NO. AGREEMENT

called fl	GREEMENT, made as of thisday of, 20_, by and between the OF ARLINGTON, MASSACHUSETTS, acting through its TOWN MANAGER, hereinafter the "Owner", and of, hereinafter called ntractor".
WITNE	SSETH: That the Contractor and the Owner for the consideration hereinafter Named agrees as follows:
1.	SCOPE: The Contractor will furnish at his own proper cost and expense all materials, supplies, machinery, equipment, appliances, accessories, tools, superintendence, labor, insurance and other items and services necessary to complete the work as shown and described on the Contract Documents entitled ", Arlington, Massachusetts", hereinafter called the "Project", prepared by, hereinafter called the "Designer", or "Landscape Architect".
2.	CONTRACT SUM: The Owner agrees to pay the Contractor, and the Contractor agrees to accept in full consideration for the performance of the contract, subject to additions and deductions provided for in the contract documents, in current funds, the sum of, hereinafter called the "Contract Sum" and to make payments on account thereof, as described below and elsewhere in the Contract Documents.
3,	COMMENCEMENT OF WORK AND TIME OF COMPLETION: The Contractor agrees to commence work on the contract on or about He agrees to complete the Project on or before
4.	LIQUIDATED DAMAGES: The Contractor agrees to pay the Owner liquidated damages for failure to complete the project in conformance with the time allowances as set forth above at the rate of per calendar day.
5.	ALTERNATES: The following Alternates have been accepted and the Contract Sum stated in paragraph 2 of this Agreement includes and is adjusted to reflect the Total cost of each accepted alternate:
	1 of 7

Contract Form

Indicate Accepted or Rejected Original Bid Value of Alternate

Add Alternate No. 1

Add Alternate No.

Add Alternate No. 2

Deduct Alternate No.

(this space intentionally left blank)

- 6. PAYMENTS TO CONTRACTOR: Payments shall be made in accordance with Chapter 30, Section 39K of the General Laws of the Commonwealth of Massachusetts, including all current amendments, generally as follows:
 - Within fifteen days after receipt from the Contractor, at the place designated by A. the Owner if such a place is so designated, of a period estimate requesting payment of the amount due for the preceding month, The Owner will make a periodic payment to the contractor for the work performed during the preceding month and for the materials not incorporated in the work but delivered and suitably stored at the site (or at some location agreed upon in writing) to which the Contractor has title or to which a subcontractor has title and has authorized to Contractor to transfer title to the Owner, less (1) a retention based an its estimate of the fair value of its claims against the Contractor and less (2) a retention for direct payments to subcontractors based on demands for same in accordance with the provisions of Section 39F, and less (3) a retention not exceeding five percent of the approved amount of the periodic payment. After the receipt of a periodic estimate requesting final payment and within sixty-five days after (a) The Contractor fully completes the work or substantial completes the work so that the value of the work remaining to be done is, in the estimate of the Owner, less than one percent of the original contract price or (b) the Contractor substantially completes the work and the Owner takes possession for occupancy, whichever occurs first, the Owner shall pay the Contractor the entire balance due on the contract less (1) a retention based on its estimate the fair value of its claim against the Contractor and of the cost of the completing the incomplete and unsatisfactory items of work and less (2) a retention for direct payments to subcontractors based on the demands for same in accordance with the provisions of Section 39F, or based on the record of payments by the Contractor to the subcontractors under this contract if such record of payment indicates that the Contractor has not paid subcontractors as provided in Section 39F. If the Owner fails to make payment as herein provided, there shall be added to each such payment daily interest at the rate of five percent per annum commencing on the first day after said payment is due

and continuing until the payment is delivered or mailed to the Contractor; provided that no interest shall be due, in any event, on the amount due on a periodic estimate for Final Payment until fifteen days after receipt of such a periodic estimate from the Contractor, at the place designated by the Owner if such a place is so designated. The Contractor agrees to pay to each subcontractor a portion of any such interest paid in accordance with the amount due each subcontractor.

- B. The Owner may make changes in any periodic estimate submitted by the Contractor and the payment due on said periodic estimate shall be computed in accordance with the changes so made, but such changes or any requirement for a corrected periodic estimate shall not effect the due date for the periodic payment or the date for the commencement of interest charges on the amount of the periodic payment computed in accordance with the changes made, as provided herein; provided that the Owner may, within seven days after receipt, return to the Contractor for correction any periodic estimate which is not in the required form or which contains computations not arithmetically correct and, in that event, the date of receipt for such periodic estimate in proper form and with arithmetically correct computations. The date of receipt of a periodic estimate received on a Saturday shall be the first working day thereafter. The provisions of Section 39G shall not apply to any contract for the construction, reconstruction, remodeling, repair or demolition of any public building to which this section applies.
- 7. PAYMENTS TO SUBCONTRACTORS: Payments shall be made in accordance with Chapter 30, Section 39F of the General Laws of the Commonwealth of Massachusetts, Including all current amendments, generally as follows:
 - A. Forthwith after the General Contractor receives payment on account of a period estimate, the General Contractor shall pay to each Subcontractor the amount paid for the labor performed and the materials furnished in any court proceedings barring such payment and also less any amount claimed due from the Subcontractor by the General Contractor.
 - B. Not later than the sixty-fifth day after each Subcontractor substantially completes his work in accordance with the plans and specifications, the entire balance due under the subcontract less amounts retained by the Owner as the estimated cost of completing the incomplete and unsatisfactory items of work, shall be due the Subcontractor; and the Owner shall pay that amount to the General Contractor. The General Contractor shall forthwith pay to the Subcontractor the full amount received from the Owner less any amount specified in any court proceedings barring such payment and also less any amount claimed due from the Subcontractor by the General Contractor.
 - C. Each payment made by the Owner to the General Contract pursuant to subparagraphs (A) and (B) of this paragraph for the labor performed and the materials furnished by a Subcontractor shall be made to the General Contractor for the account of that Subcontractor; and the Owner shall take reasonable steps to compel the General Contractor to make each payment to each such Subcontractor. If the Owner has received a demand for direct payment from a Subcontractor for any amount which has already been included in a payment to the General Contractor for payment to the Subcontractor as provided in subparagraphs (A) and (B), the Owner shall act upon demand as provided in this Section.

- If, within seventy days after the Subcontractor has substantially completed the D. Subcontract work, the Subcontractor has not received from the General Contractor the balance due under the Subcontract including any amount due for extra labor and materials furnished to the General Contractor, less any amount retained by the Owner as the estimated cost of completing the incomplete and unsatisfactory items of work, the Subcontractor may demand direct payment of that balance from the Owner. The demand shall be by a sworn statement delivered to or sent by certified mail to the Owner, and a copy shall be delivered to or sent by certified mail to the General Contractor at the same time. The demand shall contain a detailed breakdown of the balance due under the Subcontract and also a statement of the status of completion of the Subcontract work. Any demand made after Substantial Completion of the Subcontract work shall be valid even if delivered or mailed prior to the seventieth day after the Subcontractor has substantially completed the Subcontract work. Within ten days after the Subcontractor has delivered or so mailed the demand to the Owner and delivered or so mailed a copy to the General Contractor, the General Contractor may reply to the demand. The reply shall be a sworn statement delivered to or sent by certified mail to the Owner and a copy shall be delivered to or sent by certified mail to the Subconfractor at the same time. The reply shall contain a detailed breakdown of the balance due under the Subcontract including any amount due for extra labor and materials furnished to the General Contractor and of the amount due for each claim made by the General Contractor against the Subcontractor.
- E. Within fifteen days after receipt of the demand by the Owner, but in no event prior to the seventieth day after Substantial Completion of the Subcontract work, the Awarding Authority shall make direct payment to the Subcontractor of the balance due under the Subcontract, less any amount (i) retained by the Owner as the estimated cost of completing the incomplete or unsatisfactory items of work, (ii) specified in any court proceedings barring such payment, or (iii) disputed by the General Contractor in the sworn reply; provided, that the Owner shall not deduct from a direct payment any amount as provided in part (iii) if the reply is not sworn to, or for which the sworn reply does not contain the detailed breakdown required in subparagraph (D). The Owner shall make further direct payments to the Subcontractor forthwith after the removal of the basis for deductions from direct payments made as provided in parts (i) and (ii) of this subparagraph.
- F. The Owner shall forthwith deposit the amount deducted from a direct payment as provided in part (iii) of subparagraph (E) in an interest bearing joint account in the names of the General Contractor and the Subcontractor in a bank in Massachusetts selected by the Owner and agreed upon by the General Contractor and the Subcontractor and shall notify the General Contractor and the Subcontractor of the date of deposit and the bank receiving the deposit. The bank shall pay the amount on the account, including accrued interest, as provided in an agreement between the General Contractor and the Subcontractor or as determined by decree of a court of competent jurisdiction.
- G. All direct payments and all deductions from demands for direct payments deposited in an interest bearing account or accounts in a bank pursuant to subparagraph (F) shall be made out of amounts payable to the General Contractor at the time of receipt of a demand for direct payment from a Subcontractor and out of amounts which later become payable to the General Contractor and in order of receipt of

Such demands from Subcontractors. All direct payments shall discharge the Obligation of the Owner to the General Contractor to the extent of such payment.

- H. The Owner shall deduct from payments to a General Contractor amounts which, together with the deposits in interest-bearing accounts pursuant to subparagraph (F), are sufficient to satisfy all unpaid balances of demands for direct payments received from Subcontractors. All such amounts shall be earmarked for such direct payments, and the Subcontractors shall have a right in such deductions prior to any claims against such amounts by creditors of the General Contractor.
- On all contracts for building construction subject to the provisions of Sections 44A I. to 44L, inclusive, of Chapter 149, periodic payments for work performed by a Subcontractor shall be made to the General contractor for payment to the Subcontractor and shall be paid to the Subcontractor forthwith after receipt thereof by the General Contractor and without any ten-day waiting period as provided above, less any amount claimed by the General Contractor in a letter containing a breakdown of the claim and sent to the Subcontractor with such payment, provided that a General Contractor, who has received a periodic estimate for a periodic payment in proper form from a Subcontractor three days, Saturdays, Sundays and holidays excluded, before the due date of the General Contractor's periodic estimate for the same periodic payment period less any amount claimed by the General Contractor in a letter containing a breakdown of the claim and sent to the Subcontractor with such payment, even though the General contractor does not submit a periodic estimate to the Owner for that payment period; and provided, further, that the Owner shall take all reasonable steps to compel the General Contractor to make payment to the Subcontractors as provided in this paragraph, and upon the written request of a Subcontractor setting forth the amount payable but not paid, a copy of which shall be sent to the General Contractor, shall make direct payment to a Subcontractor, as provided for above, which shall discharge the obligation of the Owner to the General Contractor to the extent of any such payment.
- J. The Owner shall not include in any direct payment made to a Subcontractor pursuant to this section any amount claimed from that Subcontractor by the General Contractor in a letter containing a breakdown of the claim and sent to the Owner within ten days after the receipt by the General Contractor of the copy of the request of the Subcontractor to the Owner for direct payment

CONDITIONS OF EMPLOYMENT

- A. The schedule of Minimum Wage Rates and Health and Welfare and Pension Fund Contributions as determined by the Commissioner under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27D, inclusive, as amended, is hereby made a part of this agreement.
- B. The Contractor shall pay to any reserve police officer employed by him in any city or town the prevailing rate of wages paid to regular police officers in such city or town.
- C. No laborer, workman, mechanic, foreman or inspector working within the Commonwealth, in the employ of the Contractor, Subcontractor or any other Person doing or contracting to do the whole or a part of the work contemplated by

The Contract, shall be required or permitted to work more than eight hours in any one day or forty-eight hours in any one week, or more than six days in any one week, except in cases of emergency.

D. Every employee of the Contractor or any Subcontractor shall lodge, board and trade where and with whom he elects; and no person or his agents or employees shall be directly or indirectly required, as a condition of employment that the employee to lodge, board or trade at a particular place or with a particular person.

SUBCONTRACTORS

A. The Contractor will employ the following Subcontractors on the work and will Pay for the execution of his as defined in the Contract Documents; and subject to The additions and deductions provided in the subject to the additions and Deductions provided in the Contract Documents, the sum shown opposite his Name.

Class of Work	Subcontractor	Subcontractor Sum
	1-7	
		,
		•

- B. The names of any individual Subcontractors whom the Contractor proposed to Employ shall be submitted to the Designer for approval. No such Subcontractor Shall be employed to whose standing or ability the Owner or the Designer has any Reasonable objection.
- 10. THE CONTRACT DOCUMENTS: The General Conditions of the Contract, the Specifications and the Drawings, together with this Agreement, for the Contract, and they Are as fully a part of the Contract as if hereto attached or herein repeated. Drawings and Specifications titled:
- 11. INCORPORATION OF STATUTES BY REFERENCE: If statutes of the Commonwealth of Massachusetts in any way relating to the construction, alterations, repair and installation of public works, particularly with reference to labor and labor rates, they shall be strictly complied with by the Contractor and it is understood that all such statutes are incorporated by reference in this Contract.

12.	It is expressly agreed that this Agreement is to be executed for and in behalf of the Owner by the members of its Board of Selectmen and any of its appoints and that Such persons are acting in a representative capacity for and in behalf of Owner; and That such persons shall not incur any personal liability hereunder.					
IN WI	N WITNESS whereof, inhabitants of the Town of Arlington and					
Have	caused these presents to be executed by their					
Hereu	nto duly authorized the day and year first written					
		TOWN OF ARLINGTON				
	· .	Adam W. Chapdelaine, Town Manager				
Contr	ractor					
By:_ (N	[ame/Title]					
		Approved as to Matter of Form:				
		Juliana deHaan Rice, Town Counsel				
Appr	fication: I hereby certify that an opriation in the amount of the ract is available.	-				
Ruth	Lewis, Comptroller					
· (ract Form	7 of 7				

PERFORMANCE BOND

KNOW ALL MEN	BY THESE PRESENTS:	That we	
(Name of Cont	ractor)		
a(Corpora	tion, Partnership	or Individual)	
hereinafter c	alled "Principal" (and	
(Surety)			***************************************
of	, State of		, hereinafter
called the "S	urety", are held a	nd firmly bound into	, ,
THE TOWN OF A	RLINGTON, MASSACHU	<u>setts</u>	
acting throug	n its <u>TOWN MANAGER</u>	• *	
ARLINGTON, MA	ssachusetts itė)		
hereinafter o	called "Owner", in	the penal sum of	
		Dollars (\$	3)
	y to be made, we bli s and successors,	tates, for the payment and ourselves, our he jointly and severa	LID CYCOACOTO
	9 2 to 1 manual from \$1.	TION is such that n contract with the 19, a copy of when for the constructions.	owner dated
Arlington, Ma	ıssachusetts		
perform its conditions, term thereof, the Owner, w	duties, all the and agreements of and any extension ith or without not	undertakings, coverable said Contract during thereof which may ice to the Surety, a incurred under such harmless the Owner	g the origina be granted by and if he shal contract, an

and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation of this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, the parties to in this Bond on the day of	these present ha	ve duly executed
ATTEST:	l .v i	
Principal	:	
Ву	; 	
Secretary		
·	:	•
	•	
	<u>.</u>	•
(Address-Zip Code)		
•	;	•
•	•	
Witness as to Principal	,	(SEAL)
	1	
	•	
	•	
(Address-2in Code)	•	•

ATTEST:				
•			· · · · · · · · · · · · · · · · · · ·	
Súretý				
вч		_		
(Surety)				
Secretary				
	. •			
(Address-Zip Code)				
Witness as to Surety		- ,	(SEAL)	
77.07.000				
	•			
	.			
(Address-Zip Code)	-	,		
NOTE: Date of Bond Contractor is a Partner	must not be preship, all par	rior to date tners should	of Contract. execute Bond.	1:

END OF DOCUMENT

LABOR AND MATERIALS PAYMENT BOND

(Name of Contractor)	
a(Corporation, Partnership or Individual)	
hereinafter called "Principal" and	
(Surety)	
of, State of, hereinafter called "Surety", are held and firmly bound into	the
TOWN OF ARLINGTON, MASSACHUSETTS (Owner) acting through its TOWN MANAGER	
ARLINGTON, MASSACHUSETTS (City and State)	
herein called "Owner", in the penal sum of	
Dollars (\$)

in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a certain contract with the Owner, dated the day of _____, 19___, a copy of which is hereto attached and made a part hereof for the construction of:

ARLINGTON, MASSACHUSETTS

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications. PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied. IN WITNESS WHEREOF, the parties to these present have duly executed in this Bond on the day of ______19___. ATTEST: Principal Вy Secretary (Address-Zip Code) (SEAL) Witness as to Principal (Address-Zip Code)

ATTEST:	
Surety	
Secretary	
(Address-Zip Code)	
Witness as to Surety	(SEAL)
(Address-Zip Code)	
NOTE: Date of Bond must not Contractor is a Partnership,	t be prior to date of Contract. It all partners should execute Bond.

END OF DOCUMENT

This document has important legal consequences; consultation with an attorney is encouraged with respect to its use or modification. This document should be adapted to the particular circumstances of the contemplated Project and the Controlling Law.

STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared by

ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

and

Issued and Published Jointly By

PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE
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AMERICAN CONSULTING ENGINEERS COUNCIL

AMERICAN SOCIETY OF CIVIL ENGINEERS

This document has been approved and endorsed by

The Associated General.

Contractors of America

Construction Specifications Institute

These General Conditions have been prepared for use with the Owner-Contractor Agreements (No. 1910-8-A-1 or 1910-8-A-2) (1996 Editions). Their provisions are interrelated and a change in one may necessitate a change in the other. Comments concerning their usage are contained in the EECDC User's Guide (No. 1910-50). For guidance in the preparation of Supplementary Conditions, see Guide to the Preparation of Supplementary Conditions (No. 1910-17) (1996 Edition).

EICDC No. 1910-8 (1996 Edition)

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11

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American Consulting Engineers Council.
1015 15th Street N W., Washington, DC 20005

American Society of Civil Engineers
345 East 47th Street, New York, NY 10017

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ARTICLE 1 - DEFINITIONS AND TERMINOLOGY

[6] Defined Terms

- A. Wherever used in the Contract Documents and printed with initial or all capital letters, the terms listed below will have the meanings indicated which are applicable to both the singular and plural thereof.
- I Addenda Written or graphic instruments issued prior to the opening of Hids which clarify, correct, or change, the Bidding Requirements of the Contract Documents.
- 2. Agreement—The written instrument which is evidence of the agreement between OWNER and CONTRACTOR covering the Work.
- 3_ Application for Payment—The form acceptable to ENGINEER which is to be used by CONTRACTOR during the course of the Work in requesting propers or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.
- Asbestos.—Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.
- 5. Bid The offer or proposal of a bidder submitted on the prescribed form setting forth the prices for the Work to be performed
- 6. Bidding Documents—The Hidding. Requirements and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).
- 7. Bidding Requirements—The Advertisament of Invitation to Bid, Instructions to Bidders, Bid security form, if any, and the Bid form with any supplements.
- 8. Bands-Performance and payment bonds and other instruments of security.
- 9. Change Order—A document recommended by ENGINEER which is signed by CONTRACTOR and OWNER and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, issued on or after the Effective Date of the Agreement.
- 10. Claim-A demand of assertion by OWNER or CONTRACTOR seeking an adjustment of Contract

Price or Contract Times, or both, or other telled with respect to the terms of the Contract. A demand for money or services by a third party is not a Claim.

- 11. Contract—The entire and integrated written agreement between the OWNER and CONTRACTOR concerning the Work. The Contract supersedes prior negotiations, representations, or agreements, whether written or stall.
- 12. Contract Documents-The Contract Documents establish the rights and obligations of the parties and include the Agreement Addends (which pertain to the Contract Documents), CONTRACTOR's Bid (including documentation accompanying the Bid and any post Bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the Agreement, the Notice to Proceed, the Bonds, these General Conditions, the Supplementary Conditions, the Specifications and the Drawings as the same are more specifically identified in the Agreement, together with all Written Amendments, Change Orders, Work Change Directives, Field Orders, and ENGINEER's written interpretations and clarifications issued, on or after the Effective Date of the Agreement. Approved Shop Drawings and the reports and drawings of subsurface and physical conditions are not Contract Documents: Only printed or hard copies of the items listed in this paragraph are Contract Documents. Files in electronic media format of text; data, graphics, and the like that may be furnished by OWNER to CONTRACTOR are not Contract Documents.
- 13. Contract Price—The moneys payable by OWNER to CONTRACTOR for completion of the Work in accordance with the Contract Documents as stated in the Agreement (subject to the provisions of pattgraph 11 01 in the case of Unit Price Work).
- 14. Contract Times—The number of days or the dates stated in the Agreement to: (i) achieve Substantial Completion; and (ii) complete the Work so that it is ready for final payment as evidenced by ENGINEER's written recommendation of final payment.
- 15. CONTRACTOR-The individual or could with whom OWNER has entered into the Agreement
- 16. Cast of the Work-See paragraph 1101 A. For definition.
- 17. Drawings—That part of the Contract Documents prepared or approved by ENGINEER which graphically shows the scope, extent, and character of the Work to be performed by CONTRACTOR. Shop

Drawings and other CONTRACTOR submittals are not Drawings as so defined

- 18. Effective Date of the Agreement—The date indicated in the Agreement on which it becomes effective, but if no such date it indicated, it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.
- 5. ENGINEER-The individual or entity named at attach in the Agreement.
- 20. ENGINEER's Consultant—An individual or entity having a contract with ENGINEER to furnish services as ENGINEER's independent professional associate or consultant with respect to the Project and who is identified as such in the Supplementary Conditions.
- 21. Field Order—A written order issued by ENGINEER which requires minor changes in the Work but which does not involve a change in the Contract Price or the Contract Tunes.
 - 22. General Requirements-Sections of Division 1 of the Specifications. The General Requirements pertain to all sections of the Specifications.
- 13. Hexardous Environmental Condition—The presence at the Site of Asbestos, PCBs, Petroleum, Hazardous Waste, or Radioactive Material in such quantities or circumstances that may present a substantial danger to persons or property exposed thereto in ponnection with the Work.
- 24. Hazardous Waste-The terms Hazardous. Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.
- 15. Lows and Regulations; Laws or Regulations. Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.
- 26. Lient-Charges, security interests, or encumbrances upon Project funds, real property, or personal property.
- 27. Milestone—A principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all the Work.
- 28. Notice of Award—The written notice by OWNER to the experient successful bidder stating that upon timely compliance by the apparent successful bidder with the conditions precedent listed therein, OWNER will sign and deliver the Agreement.

- 29. Notice to Proceed-A written notice given by OWNER to CONTRACTOR fixing the date on which the Contract Times will commence to run and on which CONTRACTOR shall start to perform the Work under the Contract Documents.
- ** 30. OWNER-The individual entity, public body, or authority with whom CONTRACTOR has entered into the Agreement and for whom the Work is to be performed.
- 31. Fartial Utilization—Use by OWNER of a substantially completed part of the Work for the purpose for which it is intended (or a related purpose) prior to Substantial Completion of all the Work.

32 PCBs-Polychlonnated biphenyls:

- 33. Petroleum-Petroleum, including erude oil or any fraction thereof which is liquid at standard conditious of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such at ail, petroleum, fuel oil, oil studge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Waste and crude oils.
- 34. Project. The total construction of which the Work to be performed under the Contract Documents may be the whole, or a part as may be indicated elsewhere in the Contract Documents.
- 35. Project Manual. The bound documentary information prepared for bidding and constructing the Work. A listing of the contents of the Project Manual, which may be bound in one of more volumes, is contained in the table(s) of contents.
- 36. Rectionative Material—Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.
- 37. Resident Project Representative—The authorized representative of ENGINEER who may be assigned to the Site or any part thereof.
- 38. Samples—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.
- 39. Shop Drawings-All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for CONTRACTOR and submitted by CONTRACTOR in illustrate some portion of the Work.

- AG. Site-Lands or areas indicated in the Contract Documents as being furnished by OWNER upon which the Work is to be performed, including rights-of-way and ensemptits for access thereto, and such other lands furnished by OWNER which are designated for the use of CONTRACTOR.
- to the Control Documents consisting of written technical descriptions of written technical descriptions of written technical descriptions of waterists, squared to the Work and series administrative details applied to the work and series.
- having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the Work at the Site:
- the Work (or a specified part thereof) has progressed to the point where, in the opinion of ENGINEER, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.
- 44. Supplementary Conditions. That part of the Contract Documents which amends or supplements these General Conditions.
- 45. Supplier—A manufacturer, fabricator, supplier, distributor, materialman, or ventior having a direct contract with COMPRACTOR or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by COMPRACTOR or any Subcontractor.
- 46. Underground Facilities.—All underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electricity, gases, steam, liquid petroleum products; telephone or other communications, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems:
- 47. Unit Price Work-Work to be paid for an the basis of unit prices.
- the writing separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.

- Directive K William 49. Work Change statement to CONTRACTOR issued on or after the Effective Date of the Agreement and signed by OWNER and recommended by ENGINEER ordering an addition, deletion, or revision in the Work, or responding to differing or unforeseen subsurface or physical conditions under which the Work is to be performed or to emergencies. A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the change ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties ax to its effect, if any, on the Contract Price or Contract Tanes.
- 50. Written Amendment—A written statement modifying the Contract Documents, signed by OWNER and CONTRACTOR on or after the Effective Date of the Agreement and normally dealing with the nonengineering or nontechnical rather than strictly construction-related aspects of the Contract Documents.

1.02 Terminology

A Intent of Certain Terms or Adjectives

Whenever in the Contract Documents the terms "as allowed," "as approved," or terms of like effect or import are used, or the adjectives "reasonable," "suitable," "acceptable," "proper," "satisfactory," or adjectives of like effect or import are used to describe an action or determination of ENGINEER as to the Work, it is intended that such action or determination will be solely to evaluate; in general, the completed Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective shall not be effective to assign to ENGINEER any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of paragraph 9.10 or any other provision. of the Contract Documents.

B. Day

1. The word "day" shall constitute a calendarday of 24 hours measured from midnight to the next midnight

C Defective

The word "defective," when modifying the word "Work," refers to Work that is unsatisfactory, faulty, or deficient in that it does not conform to the

Contract Documents or thes not meet the requirements of any inspection, reference standard, test, or approval referred to in the Contract Documents, or has been damaged prior to ENGINEER's recommendation of final payment (unless responsibility for the protection thereof has been assumed by OWNER at Substantial Completion in accordance with paragraph 14.04 or 14.05).

D. Furnish, Install, Perform, Provide

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- 1. The word "furnish," when used in connection with services, materials, or equipment, shall mean to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.
- 2. The word "install," when used in connection with services, materials, or equipment, shall mean to put into use or place in final position said services, materials, or equipment complete and ready for intended use.
- 3. The words "perform" of "provide," when used in connection with services, materials, or equipment, shall mean to furnish and install said services, materials, or equipment complete and ready for intended use.
- 4. When "furnish," "install," "perform," or "provide" is not used in connection with services, materials, or equipment in a context clearly requiring an obligation of CONTRACTOR, "provide" is implied.
- E. Unless stated otherwise in the Contract Documents, words or phrases which have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2 - PRELIMINARY MATTERS

2.01 Delivery of Bonds

A. When CONTRACTOR delivers the executed Agreements to OWNER, CONTRACTOR shall also deliver to OWNER such Bonds as CONTRACTOR may be required to furnish.

2.02 Copies of Documents

A. OWNER shall furnish to CONTRACTOR up to ten copies of the Contract Documents. Additional copies will be furnished upon request at the cost of reproduction. 2.03 Commencement of Contract Times, Notice to Proceed*

A. The Contract Traces will commence to run on the thirtieth day after the Effective Date of the Agreement or, if a Notice to Proceed is given, on the day indicated in the Motice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Agreement. In no event will the Contract Times commence to run later than the sixtieth day after the day of Bid opening or the thirtieth day after the Effective Date of the Agreement, whichever date is earlier.

2.04 Starting the Work

A. CONTRACTOR shall start to perform the Work on the date when the Contract Times commence to run. No Work shall be done at the Site prior to the date on which the Contract Times commence to run.

2.01 Before Starting Construction

A. CONTRACTOR's Review of Contract Documents: Before undertaking each part of the Work,
CONTRACTOR shall carefully study and compare the
Contract Documents and check and verify pertinent figures
therein and all applicable field measurements.
CONTRACTOR shall promptly report in writing to
ENGINEER any conflict, error, ambiguity, or discrepancy
which CONTRACTOR may discover and shall obtain a
written interpretation or clarification from ENGINEER
before proceeding with any Work affected thereby,
however, CONTRACTOR shall not be liable to OWNER
or ENGINEER for failure to report any conflict, error,
ambiguity, or discrepancy in the Contract Documents
tunless CONTRACTOR knew or reasonably should have
known thereof.

- B. Preliminary Schedules: Within tendays after the Effective Date of the Agreement funless otherwise specified in the General Requirements), CONTRACTOR shall submit to ENGINEER for its timely review:
 - I. * preliminary progress schedule indicating the times foumbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract Documents;
 - a preliminary schedule of Shop Drawing, and Sample submittals which will list each required submittal and the times for submitting, reviewing, and processing such submittal; and
 - 3. a preliminary schedule of valors for all of the Work which includes quantities and prices of nems which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the

basis for progress payments during performance of the Work. Such process will include an appropriate amount of overhead and profit applicable to each item of Work.

Evidence of Insurance: Before any Work at the Site is started, CONTRACTOR and OWNER shall easily deliver to the other, with sepies to each additional insured identified in the Supplementary Conditions, certificates of insurance which either of them or any additional insured may reasonably request which CONTRACTOR and OWNER respectively are required to purchase and maintain in accordance with Article 5.

2.06 Preconstruction Conference

A. Within 20 days after the Contract Times start to run, but before any Work at the Site is started, a conference attended by CONTRACTOR, ENGINEER, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in paragraph 2.05.B, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, and maintaining required records.

2.07 Initial Acceptance of Schedules

- A. Unless otherwise provided in the Contract Documents, at least ten days before submission of the first Application for Payment a conference attended by CONTRACTOR, ENGINEER, and others as appropriate with be held to review for acceptability to ENGINEER as provided below the schedules submitted in accordance with paragraph 2.05.B. CONTRACTOR shall have an additional ten days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to CONTRACTOR until acceptable schedules are submitted to ENGINEER.
 - I. The progress schedule will be acceptable to ENGINEER if it provides an orderly progression of the Work to completion within any specified Milestones and the Contract Times. Such acceptance will not impose on ENGINEER responsibility for the progress schedule, for sequencing, scheduling, or progress of the Work not interfere with or relieve CONTRACTOR from CONTRACTOR's full responsibility therefore
 - 2. CONTRACTOR's schedule of Shop Drawing and Sample submittals will be acceptable to ENGINEER if it provides a workship arrangement for reviewing and processing the required submittals.

3. CONTRACTOR's schedule of values will be acceptable to ENGINEER as as form and substance if it provides a reasonable allocation r the Contract Prize to component parts of the Work.

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING REUSE

1:01 Intent

- * A. The Contract Documents are complementary, what is called for by one is as binding as if called for by all
- B. It is the inlent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, of equipment that may reasonably be inferred from the Contract Documents or from prevailing custom of trade usage as being required to produce the intended result will be provided whether or not specifically called for at no additional cost to OWNER.
- C. Clarifications and interpretations of the Contract Documents shall be issued by ENGINEER as provided in Article 9.

1.02 Reference Standards

- A. Standards, Specifications, Codes, Laws, and Regulations
 - Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean the standard, specification, manual, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Agreement if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.
 - 2. No provision of any such standard, specification, manual or code, or any instruction of a Supplier shall be effective to change the duties of responsibilities of OWNER, CONTRACTOR, on ENGINEER, or any of their subcontractors, consultants, agents, or employees from those set forth in the Contract Documents, nor shall any such provision or instruction be effective to assign to OWNER, ENGINEER, or any of ENGINEER's Consultants, agents, or employees any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertakt responsibility inconsistent with the priorisions and the Contract Documents.

A. Reporting Discrepancies

1. If, during the performance of the Work, CONTRACTOR discovers any conflict error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any provision of any Law or Regulation applicable to the performance of the Work or of any standard, specification, manual or code, or of any instruction of any Supplier, CONTRACTOR shall report it to ENCINEER in writing at once. CONTRACTOR shall not proceed with the Work affected thereby (except in an emergency as required by paragraph 6.16.A) until an amendment or supplement to the Contract Documents has been issued by one of the methods indicated in paragraph 1.04; provided, however, that CONTRACTOR shall not be liable to OWNER of ENGINEER for failure to report any such conflict, error; ambiguity, or disorepancy unless CON-TRACTOR knew or reasonably should have known thereof.

B Resolving Discreponcies

- I. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:
 - a, the provisions of any standard, specification, manual, rode, or instruction (whether or not specifically incorporated by reference in the Contract Documents); or
 - b. the provisions of any laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).
- 1.04 Amending and Supplementing Contract Documents
- A: The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof in one or more of the following ways: (i) a Written Amendment; (ii) a Change Order; or (iii) a Work Change Directive.
- B. The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, by one or more of the following ways: (i) a Field Order, (ii) ENGINEER's

approval of a Shop Drawing or Sample, or (iii) ENGINEER's written interpretation or clarification

3.05 Reuse of Documents

A. CONTRACTOR and any Subcontractor or Supplier or other individual or entity performing or furnishing any of the Work under a direct or indirect contract with OWNER: (i) shall not have or acquire any tille to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of ENGINEER or ENGINEER's Consultant, including electronic media editions; and (ii) shall not seuse any of such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without swines consent of OWNER and ENGINEER and specific written verification or adaption by ENGINEER. This prohibition will survive final payment, completion, and acceptance of the Work, or termination or completion of the Contract Nothing herein shall preclude CONTRACTOR from retaining copies of the Contract Documents for record purposes.

ARTICLE A AVAILABILITY OF LANDS: SUBSURFACE AND PHYSICAL CONDITIONS; REFERENCE POINTS

4.01 Availability of Lands

- A. OWNER shall lumb the Site: OWNER shall notify CONTRACTOR of any ancumbrances or restrictions not of general application but appecifically related to use of the Site with which CONTRACTOR must comply in performing the Work. OWNER will obtain in a timely manner and pay for casements for permanent attractures or permanent changes in existing facilities. If CONTRACTOR and OWNER are unable to agree on emittement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of any delay in OWNER's furnishing the Site, CONTRACTOR may make a Claim therefor as provided in paragraph 10.05.
- It: Upon reasonable written request, OWNER shall furnish CONTRACTOR with a current statement of record legal title and legal description of the lands upon which the Work is to be performed and OWNER's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations
- C CONTRACTOR shell provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment:

1.02

- * A Reports and Drawings: The Supplementary Conditions identify:
 - those reports of explorations and tests of substurface conditions at or contiguous to the Site that ENGINEER has used in preparing the Contract Documents; and
 - those drawings of physical conditions in of relating to existing surface or subsurface structimes at or contiguous to the Site (except Underground Facilities) that ENGINEER has used in preparing the Contract Documents.
- B: Limited Reliance by CONTRACTOR on Technical Data Authorized: CONTRACTOR may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," CONTRACTOR may not rely upon or make any Claim against OWNER, ENGINEER, or any of ENGINEER's Consultants with respect to:
 - I the completeness of such reports and drawings for CONTRACTOR's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, and safety prosutions and programs incident thereto, or
 - other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
 - 3. any CONTRACTOR interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information.
- 4.03 Differing Subsurface or Physical Conditions
- A Notice: If CONTRACTOR believes that any subsurface of physical condition at or contiguous to the Site that is uncovered or revealed either:
 - is of such a nature as to establish that any "technical data" on which CONTRACTOR is entitled to rely as provided in paragraph 4.02 is materially inaccurate, or
 - is of such a nature as to require a change in the Contract Documents, or

- differs materially from that shown or indicated in the Contract Documents; or
- is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents,

then CONTRACTOR shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by paragraph 6.16.A), notify OWNER and ENGINEER in writing about such condition CONTRACTOR shall not further disturb such condition or perform any Work in connection therewith (except as aforesaid) until receipt of written order to do so.

B. ENGINEER'S Review: After receipt of written notice as required by paragraph 4.03.A. ENGINEER will promptly review the pertinent condition, determine the necessity of OWNER's obtaining additional exploration or tests with respect thereto, and advise OWNER in writing (with a copy to CONTRACTOR) of ENGINEER's lindings and conclusions.

C. Possible Price and Times Adjustments

- 1. The Contract Price or the Contract Firmes; or both, will be equitably adjusted to the extent that the existence of such differing subsurface or physical condition causes an increase or decrease in CONTRACTOR's cost of, or time required for, performance of the Work; subject, however, to the following:
 - more of the categories described in paragraph \$.03.A; and
 - be with respect to Work that is paid for on a Unit Price Basis, any adjustment in Contract Price will be subject to the provisions of paragraphs 9.08 and 11,03.
- 2. CONTRACTOR shall not be cotitied to any adjustment in the Contract Price or Contract Times if.
 - a. CONTRACTOR knew of the existence of such conditions at the time CONTRACTOR made a final commitment to OWNER in respect of Contract Price and Contract Times by the submission of a Bid of becoming bound under a regotiated contract; of
 - is the existence of such condition could' teasonably have been discovered or revealed as

- a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for CONTRACTOR prior to CONTRACTOR's making such final commitment, or
- c. CONTRACTOR failed to give the written notice within the time and as required by paragraph 4.03.A.
- 3. If OWNER and CONTRACTOR are unable to agree on entitionent to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, a Claim may be made therefor as provided in paragraph 10,05. ENGINEER. OWNER. However... ENGINEER's Consultants shall not be liable to CONTRACTOR for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by CONTRACTOR on or in connection with any other project or anticipated project.

4.04 Underground Facilities

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- A. Shown or indicated: The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the Site is based on information and data furnished to OWNER or ENGINEER by the owners of such Underground Facilities, including OWNER, or by others. Unless it is otherwise expressly provided in the Supplementary Conditions.
 - 1. OWNER and ENGINEER shall not be responsible for the accuracy or completeness of any such information or data; and
 - 1 the cost of all of the following will be included in the Contract Price, and CONTRAC-TOR shall have full responsibility for:
 - information and data,
 - in locating all Underground Facilities, shown or indicated in the Contract Documents.
 - e, coordination of the Work with the owners of such Underground Facilities, including OWNER, during construction, and
 - d the safety and protection of all such. Underground Facilities and repairing anydamage thereto resulting from the Work

B. Not Shown or Indicated

- 1. If an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated, or and shown or indicated with reasonable accuracy in the Contract Documents. CONTRACTOR shall promptly after becoming giver thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by paragraph 6.16.A), identify the owner of such Underground Facility and give written notice to that owner and to OWNER and ENGI-NEER ENGINEER will promptly review the Underground Facility and determine the extent, if any, to which a change is required in the Contract: Documents to reflect and document the consequences of the existence or location of the Underground Facility. During such time, CONTRACTOR shall be responsible for the safety and protection of such Underground Facility.
- 2. If ENGINEER concludes that a change in the Contract Documents is required, a Work Change Directive or & Change Order will be issued in reflect and document such consequences. An equitable *adjustment shall be made in the Contract Price or Contract Times, or both, to the extent that they are attributable to the existence or location of any Underground Facility that was not shown or *indicated or not shown or indicated with resonable accuracy in the Contract Documents and that CONTRACTOR did not know of and could not reasonably have been expected to be aware of or to have ablicipated. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any such. adjustment in Contract Price or Contract Times, OWNER or CONTRACTOR may make a Claim therefor as provided in paragraph 10.05.

4.05 Reference Points

A. DWNER shall provide engineering surveys to establish reference points for construction which in ENGINEER's judgment are necessary to enable CONTRACTOR to proceed with the Work. CONTRACTOR shall be responsible for laying and the Work, shall protect and preserve the established reference points and properly monuments, and shall make no changes or relocations without the prior written approval of OWNER. CONTRACTOR shall report to ENGINEER whenever any reference point or property monument is lost of destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points.

or property monuments by professionally qualified personnel.*

4.06 Hazardous Environmental Condition at Site

- A. Reports and Drawings: Reference is made to the Supplementary Conditions for the identification of these reports and drawings relating to a Hazardous Environmental Condition identified at the Site, if any, that have been utilized by the ENGINEER in the preparation of the Contract Documents.*
- B. Elmited Reliance by CONTRACTOR on Technical Data Authorized: CONTRACTOR may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions, Except for such reliance on such "technical data," CONTRACTOR may not rely upon or make any Claim against OWNER, ENGINEER or any of ENGINEER's Consultants with respect to:
 - 1. the completeness of such reports and drawings for CONTRACTOR's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by CONTRACTOR and safety precautions and programs incident thereto; or
 - 2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such diamings; or
 - 3. any CONTRACTOR interpretation of or conclusion drawn from any "technical data" or any such other data; interpretations, opinions of information.
- C. CONTRACTOR shall not be responsible for any Harardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work CONTRACTOR shall be responsible for a Hazardous Environmental Condition created with any materials brought to the Site by CONTRACTOR, Subcontractors, Suppliers, or anyone else for whom CONTRACTOR is responsible.
- D. If CONTRACTOR encounters a Hazardous Environmental Condition or if CONTRACTOR or anyone for whom CONTRACTOR is responsible creater a Hazardous Environmental Condition, CONTRACTOR shall immediately (i) secure or otherwise isolate such condition; (ii) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by paragraph 6.16); and (iii) notify

OWNER and ENGINEER (and promptly thereafter confirm such notice in writing). OWNER shall promptly consult with ENGINEER concerning the necessity for OWNER in retain a qualified expert to evaluate such condition or take corrective action, if any.

- E. CONTRACTOR shall not be required to resume Work in connection with such condition or in any affected area until after OWNER has obtained any required permits related thereto and delivered to CONTRACTOR, written notice: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work; or (ii) specifying any special conditions under which such Work may be resumed safety. If OWNER and CONTRACTOR cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stoppage or such special conditions under which Work is agreed to be resumed by CONTRACTOR, either party may make a Claim therefor as provided in paragraph 10.05.
- F. If after receipt of such written notice CONTRACTOR does not agree to resume such Work-based on a reasonable belief it is thisafe, or does not agree to resume such Work under such special conditions, then OWNER may under the portion of the Work that is in the area affected by such condition to be deleted from the Work. If OWNER and CONTRACTOR cannot agree as to entitlement to or on the amount or extent, if any, of an adjustment in Contract Price or Contract Times as a result of deleting such portion of the Work, then either party may make a Claim therefor as provided in paragraph 10.05. OWNER may have such deleted portion of the Work performed by OWNER's own forces or others in accordance with Article 7.
- G. To the fullest extent permitted by Laws and Regulations, OWNER shall indemnify and hold harmless: ENGINEER. Subcontractors, CONTRACTOR, ENGINEER's Consultants and the officers, directors, pariners, employees, agents, other consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all feet and charges of engineers, architects. attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition. (i) was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to he meluded within the scope of the Work, and (ii) was not created by CONTRACTOR of by anyone for whom CONTRACTOR is responsible. Nothing in this paragraph 4 06 E shall oblique OWNER to indeponily any molitidual or entity from and against the consequences of that individual's or entity's own negligence.

H. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER's Consultents, and the officers, directors, partners, employees, agents, other consultants, and subcontractors of each and may of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attimueys, and other professionals and all court or arbitration or other dispute resolution costs) sriking out of or relating to a Hazardous Environmental Condition created by CONTRACTOR or by anyone for whom CONTRACTOR is responsible. Nothing in this puragraph 4.06.F shall obligate CONTRACTOR to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

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I The provisions of paragraphs 4.02, 4.03, and 4.04 are not intended to apply to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 5 - HONDS AND INSURANCE

£01 Performance, Payment, and Other Bonds

- A CONTRACTOR shall furnish performance and payment Bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all CONTRACTOR's obligations under the Contract Documents. These Bonds shall remain in effect at least until one year after the date when final payment becomes due, except as provided otherwise by Laws or Regulations or by the Contract Documents. CONTRACTOR shall also furnish such other Bonds as are required by the Contract Documents.
 - B. All Beinds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the nument list of "Companies Holding Cartificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. All Bonds signed by an agent innut be accompanied by a certified copy of such agent's authority to act.
 - TRACTOR is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it cases to meet the requirements of paragraph 5.01.B. CONTRACTOR shall within 20 days thereafter substitute another Bond and surety, both of which shall comply with the requirements of paragraphs 5.01.B and 5.02.

5.02 Lagensed Sureties and Insurers

A: All Bonds and insurance required by the Contract Documents to be purchased and maintained by OWNER or CONTRACTOR shall be obtained from surety or insurance companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue Bonds or insurance policies for the limits and goverages so required. Such surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary Conditions.

J.O. Certificates of Insurance

A CONTRACTOR shall deliver to OWNER, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by OWNER or any other additional insured) which CONTRACTOR is required to purchase and maintain: OWNER shall deliver to CONTRACTOR, with sopies to each additional insured identified in the Supplementary Conditions, confilinates of insurance ford other avidence of insurance requested by CONTRACTOR or any other additional insured) which OWNER is required to purchase and remining.

5.04 CONTRACTOR's Liability Insurance

- * A. CONTRACTOR shall purchase and maintain such liability and other insurance as it appropriate for the Work being performed and as will provide protection from claims set forth below which may arise out of or result from CONTRACTOR's performance of the Work and CONTRACTOR's other obligations under the Contract Documents, whether it is to be performed by CONTRACTOR, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable:
 - f. claims under workers' compensation, disability benefits, and other similar employes benefit acts;
 - claims for damages because of bodily injury, occupational sickness or disease, or death of CONTRACTOR's employees;
 - 3. claims for damages because of bodily injury, sickness or disease, or death of any person other than CONTRACTOR's employees;
 - at claims for damages insured by reasonably available personal injury habiting coverage which are sustained (i) by any person as a result of an offense directly or inducedly related to the employment of such person by CONTRACTOR, or (ii) by any other person for any other reason,

- S claims for damages; other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom; and
- 6. claims for damages because of bodily injury or death of any person or property damage arrising out of the ownership, maintenance of use of any motor vehicle.
- B. The policies of insurance so required by this paragraph 5.04 to be purchased and maintained shall:
 - graphs 5.04.A.3 through 5.04.A.6 inclusive, include as additional insureds (subject to any customary exclusion in respect of professional liability) OWNER, ENGINEER, ENGINEER's Consultants, and any other individuals of entities identified in the Supplementary Conditions, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, parmers, employees, agents, and other consultants and subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary coverage for all claims povered thereby;
 - 2. include at least the specific coverages and be written for not less than the limits of liability provided in the Supplementary Conditions of required by Laws or Regulations, whichever is greater.
 - 1. include completed operations insurance;
 - 4, include contractual liability insurance covering CONTRACTOR's indemnity obligations under paragraphs 6.07, 6.11, and 6.20;
 - 5. contain a provision or indersement that the coverage afforded will not be canceled, materially changed or renewal refused until at least thirty days prior written notice has been given to OWN. ER and CONTRACTOR and to each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the CONTRACTOR pursuant to paragraph 5.03 will so provide).
 - 6. remain in effect at least until lines payment and at all times thereafter when CONTRACTOR may be correcting, removing, or replacing defective Work in accordance with paragraph 13.07; and

7. with respect to completed operations insurance, and any insurance coverage written on a claims-made basis, remain in effect for at least two years after final payment (and CONTRACTOK shall famish OWNER and each other additional insured identified in the Supplementary Conditions, to whom a certificate of insurance has been issued, evidence satisfactory to OWNER and any such additional insured of continuation of such insurance at final payment and one year thereafter).

5.03 OWNER's Liability Insurance

A. In addition to the insurance required to be provided by CONTRACTOR under paragraph 5.04, OWNER, at OWNER's option, may purchase and maintain at OWNER's expense OWNER's own liability insurance as will protect OWNER against claims which may arise from operations under the Contract Documents.

S.O. Property Insurance

- A. Unless otherwise provided in the Supplementary Conditions, OWNER shall purchase and maintain property insurance upon the Work at the Site in the amount of the full replacement cost thereof (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). This insurance shall:
 - I, include the interests of OWNER, CON-TRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as an additional insured;
 - 2. be written on a Builder's Risk sali-fisk or open peril or special causes of loss policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, laise work, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire, lightning, extended coverage, theft, vandalism and malicious mischnef, carthquake, collapse, debris removal, demolution occasioned by enforcement of Laws and Regulations, water damage, and such other perils or causes of loss as may be specifically required by the Supplementary Conditions:
 - 3 include expenses incurred in the repair of replacement of any moured property (including but

and limited to less and charges of engineers and exchitects);

- 4. cover materials and equipment stored at the Site sor at another location that was agreed to in writing by OWNER prior to being incorporated in the Work, provided that such materials and equipament have been included in an Application for Payment recommended by ENGINEER;
- 5. allow for partial utilization of the Work by OWNER;
 - 6 include lesting and startup; and
- 7. be maintained in effect until final payment is made unless otherwise agreed to in writing by OWNER, CONTRACTOR, and ENGINEER with 30 days written notice to each other additional insured to whom a certificate of insurance has been issued.
- * B. OWNER shall purchase and maintain such boiler and machinery insurance or additional property insurance as may be required by the Supplementary Conditions or Laws and Regulations which will include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured.
 - * C. All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with paragraph 5.06 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 30 days prior written notice has been given to OWNER and CONTRACTOR and to each other additional insured to whom a certificate of insurance has been issued and will contain waiver provisions in accordance with paragraph 5.07.
 - and maintaining any property insurance specified in this paragraph 5.06 to protect the interests of CONTRACTOR, Subcontractors, or others in the Work to the extent of any deductible amounts that are identified in the Supplementary Conditions. The risk of loss within such identified deductible amount, will be bome by CONTRACTOR, Subcontractors, or others suffering any such loss, and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.
 - E If CONTRACTOR requests in writing that other special insurance be included in the property insurance policies provided under paragraph 5.06, OWNER shall, if

possible, include such insurance, and the cost thereof will be charged to CONTRACTOR by appropriate Change Order or Written Amendment. Prior to commencement of the Work at the Site, OWNER shall in writing advise. CONTRACTOR whether or not such other insurance has been precaused by OWNER.

5.07. Walver of Rights

- * A. OWNER and CONTRACTOR intend that all policies purchased in accordance with paragraph 5.06 will protect OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them) in such policies and will provide primary coverage for all losses and damages caused by the perils of causes of loss covered thereby. All such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or additional insureds thereguider, OWNER and CONTRACTOR waive all rights against each other and their respective officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them for all losses and damages caused by a fixing out of or resulting from any of the perils of causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, weive all such rights against Subcontractors, ENGINEER, ENGINEER'S Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds fand the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them) under such policies for losses and damages so caused. None of the above waivers shall extend to the rights that any party making such waiver may have to the proceeds of insurance held by OWNER as trustee or otherwise payable under any policy so issued.
- B. OWNER waives all rights against CONTRACTOR. Subcontractors, ENGINEER. ENGINEER's Consultants, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them for:
 - 1. loss due to business interruption, loss of tire, or other consequential loss extending beyond direct physical loss or damage to OWNER's property or the Work caused by, arising out of, or tesulting from fire or other peril whether or not insured by OWNER; and
 - 2 loss or dimage to the completed Project or part thereof caused by arising out of, or resulting from the or other insured peril or cause of lust.

covered by any property insurance maintained on the completed Project of part thereof by OWNER, during partial utilization pursuant to paragraph 14.05, after Substantial Completion pursuant to paragraph 14.04, or after final payment pursuant to paragraph 14.07.

C. Any insurance policy maintained by OWNER covering any loss, damage or consequential loss referred to in paragraph 5.07.B shall contain provisions to the effect that in the event of payment of any such loss, damage, in consequential loss, the insurers will have no rights of recovery against CONTRACTOR. Subcontractors, ENGINEER, or ENGINEER's Consultants and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them.

5.08 Receipt and Application of Insurance Proceeds

- A Any inspend last under the policies of insumes required by paragraph 5.06 will be adjusted with OWNER and made payable to OWNER as Industry for the insured, as their interests may appear, subject to the insured, as their interests may appear of any applicable mortgage alouse and of paragraphs 5.08 E. OWNER shall deposit in a separate amount any money so received and shall distribute in secondarios with such agreement of the parties in interest may reach. If no other special agreement in received, the demaged Work shall be repaired or replaced, the money we received applied on account thereof, and the Work and the cost thereof covered by an appropriate Charge Order of Written Amondment.
- R. OWNER as fiduciary shall have power to editer parties in interact chall object in writing within 15 days after the occurrence of loss to OWNER as fiduciary shall make authorized with the instruct in accordance with such agreement as the parties in interest may reach. If no make agreement as the parties is interest may reach. If no make agreement among the parties is interest is reached; OWNER as fiduciary shall adjust and south the loss with the instructs and, if required to writing by any party in interest. OWNER as fiduciary shall give board for the paper parformance of such duties.

5.69 Acceptance of Bends and Insurance; Option to Replace

A. If either OWNER or CONTRACTOR has any absence to the coverage afforded by or other provisions of the Bends or insurance required to be purchased and maintained by the other party in accordance with Article 5 on the basis of non conformance with the Contract Decuments, the objecting party shall so notify the other party in writing within 10 days after receipt of the partification (or other evidence requested) required by paragraph 2.05C OWNER and CONTRACTOR dull

soch provide to the other such additional information in tespect of insurance provided as the other may reasonably request. If either pury dose not purphise or maintain all of the Bonds and insurance required of such party by the Contract Dostuments, such party shall notify the other party in writing of such failure to purchase prior to the start of the West, or of such failure to maintain prior to any always in the required severage. Without prejudice to any other right or remain, the attior party may also to obtain equivalent Bonds or insurance to protest such other party's interests at the expense of the party who was required to provide such severage, and a Change Order shall be issued to adjust the Contract Price accordingly.

5.10 Partial Utilization, Acknowledgment of Property

A. If OWNER finds it necessary to occupy or use a portion or portions of the Work prior to Substaintal Completion of all the Work as provided in paragraph 14.05, no such use or occupancy shall commence before the insurers providing the property insurance pursuant to paragraph 5.06 have acknowledged notice thereof and inwriting effected any changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy.

ARTICLE 5 - CONTRACTOR'S RESPONSIBILITIES

6.01. Supervision and Superimendence.

- A. CONTRACTOR shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction, but CONTRACTOR shall not be responsible for the negligence of OWNER or ENGINEER in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the Contract Documents. CONTRACTOR shall be responsible to see that the completed Work complies accurately with the Contract Documents.
- * B. Al all times during the progress of the Works CONTRACTOR chall assign a compount resident superintendent thereto who shall not be replaced without written notice to OWNER and ENGINEER except under extraordinary circumstances. The superintendent will be CONTRACTOR a representative at the Site and shall have authority to set on behalf of CONTRACTOR. All communications given to an reserved from the superintendent that the binding on CONTRACTOR.

- A. CONTRACTOR shall provide competent, initiably qualified personnel to survey, lay out, and construct the Work as required by the Contract Documents. CONTRACTOR shall at all times maintain good discipline and order at the Site.
- B. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours, and CONTRACTOR will not permit overtime work or the performance of Work on Saturday, Sunday, or any legal holiday without OWNER's written consent (which will not be unreasonably withheld) given after prior written notice to ENGINEER.

603 Services, Materials, and Equipment

- A. Unless otherwise specified in the General Requirements, CONTRACTOR shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinary, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start-up, and completion of the Work.
- B. All insterials and equipment incorporated into the Work shall be as specified or, if not specified, shall be of good quality and new, except as otherwise provided in the Contract Documents. All warranties and guarantees specifically called for by the Specifications shall expressly run to the benefit of OWNER. If required by ENGINEER, CONTRACTOR shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment. All materials and equipment shall be stored, applied, installed, connected, except, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

6.04 Progress Schedule

- A CONTRACTOR shall adhere to the progress schedule established in accordance with paragraph 2.07 as it may be adjusted from time to time as provided below.
 - 1. CONTRACTOR shall submit to ENOI-NEER for acceptance (to the extent indicated inparagraph 1.07) proposed adjustments in the progress schedule that will not result in changing the Contract Times (or Milestones). Such adjustments will conform generally to the progress schedule then in effect and additionally will comply with any

provisions of the General Requirements applicable

2. Proposed adjustments in the progress schedule that will change the Contract Times (or Milestones) shall be submitted in accordance with the requirements of Article 12. Such adjustments may only be made by a Change Order or Written Amendment in accordance with Article 12.

6.05 Substitutes and "Or-Equals"

- A. Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the specification or description is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words residing that on like, equivalent, or "or-equal" item or no substitution is permitted, other items of material or equipment or material or equipment of other Suppliers may be submitted to ENGINEER for review under the circumstances described below.
 - I "Or Equal" Items: If in ENGINEER's sole discretion an item of material or equipment proposed by CONTRACTOR is functionally equal to that named and sufficiently similar so that no change in related Work will be required, it may be considered by ENGINEER as an "or-equal" item, in which case review and approval of the proposed item may, in ENGINEER's sole discretion, be accomplished without compliance with some or all of the requirements for approval of proposed substitute items. For the purposes of this paragraph 6.05 A. I. a proposed item of material or equipment will be considered functionally equal to an item so fiamed if:
 - ENGINEER determines that: (i) it is at least equal in quality, durability, appearance, strength, and design characteristics, (ii) it will reliably perform at least equally well the function imposed by the design concept of the completed Project as a functioning whole, and,
 - by CONTRACTOR certifies that (i) there is no increase in cost to the OWNER; and (ii) it will conform substantially, even with deviations, to the detailed requirements of the item named in the Contract Documents

Z Substitute fiems

a It in ENGINIER's sole discretion in them of material of equipment proposed in

CONTRACTOR does not qualify at an "occupied" item under paragraph 5.05.A l, it will be considered a proposed substitute item.

- b. CONTRACTOR shall submit sufficient information as provided below to allow ENGINEER to determine that the item of material or equipment proposed is essentially equivalent to that named and an acceptable substitute therefor. Requests for review of proposed substitute items of material or equipment will not be accepted by ENGINEER from anyone other than CONTRACTOR.
- E. The procedure for review by ENGI-NEER will be as set forth in paragraph 6.05 A.2.d, as supplemented in the General Requirements and as ENGINEER may decide in appropriate under the circumstances.
- A CONTRACTOR shall first make written application to ENGINEER for review of a proposed substitute item of material or equipment that CONTRACTOR seeks to furnish or use. The application shall certify that the proposed substitute item will perform adequately the functions and achieve the results called for by the general design, be similar insubstance to that specified, and be suited to the same use as that specified. The application will state the extent, if any, to which the use of the proposed substitute item will projudice CONTRACTOR's achievement of Substantial Completion on time, whether or not use of the proposed substitute item in the Work will require a change in any of the Contract Documents for in the provisions of any other direct contract with OWNER for work on the Project) to adapt the design to the proposed substitute item and whether or not incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed aubstitute item from that specified will be identified in the application, and available engineering, sales, maintenance, repair, and replacement services will be indicated. The application will also contain an itemized estimate of all costs of credits that will result directly or indirectly from use of such substitute. item, including costs of redesign and claims of other contractors affected by any resulting change, all of which will be considered by ENGINEER in evaluating the proposed ENGINEER may require substitute item CONTRACTOR to furnish additional data about the proposed substitute item
- B. Substitute Construction Methods or Procedures

- If a specific means, method, technique, sequence, or procedure of construction is shown as indicated in and expressly required by the Contract Documents, CONTRACTOR may furnish or utilize a substitute means, method, technique, sequence, or procedure of construction approved by ENGINEER CONTRACTOR shall submit sufficient information to allow ENGINEER, in ENGINEER's sole discretion, to determine that the substitute proposed is equivalent to that expressly called for by the Contract Documents. The procedure for review by ENGINEER will be similar to that provided in subparagraph 6.05.A.2:
- C. Engineer's Evaluation: ENGINEER will be allowed a reasonable time within which to evaluate each proposal or submittal made pursuant to paragraphs 6.05.A and 6.05.B. ENGINEER will be the zole judge of acceptability. No "or-equal" or gubstitute will be ordered, installed or utilized until ENGINEER's review is complete, which will be evidenced by either a Change Order for a substitute or an approved Shop Drawing for an "or equal." ENGINEER will advise CONTRACTOR in writing of any negative determination.
- D. Special Guarantee: OWNER may require CON-TRACTOR to furnish at CONTRACTOR's expense a special performance guarantee or other surery with respect to any substitute.
- E ENGINEER'S Cost Reimbursement-ENGINEER will record time required by ENGINEER and ENGINEER'S Consultants in evaluating substitute proposed or submitted by CONTRACTOR pursuant to paragraphs 6.05.A.2 and 6.05.B and in making changes in the Contract Documents (or in the provisions of any other direct contract with OWNER for work on the Project) occasioned thereby. Whether or not ENGINEER approves a substitute item so proposed or submitted by CONTRACTOR, CONTRACTOR shall reimburse OWNER for the charges of ENGINEER and ENGINEER's Consultants for evaluating each such proposed substitute.
- F. CONTRACTOR's Expense: CONTRACTOR shall provide all data in support of any proposed substitute or "or-equal" at CONTRACTOR's expense.
- 6.08 Concerning Subconfractors, Suppliers, and Others
- A. CONTRACTOR shall not employ any Subciditatetor, Supplier, or other individual or entity (including those acceptable to OWNER as indicated in paragraph 6.06.B), whether initially or as a replacement, against whom OWNER may have reasonable objection. CONTRACTOR shall not be required to employ any Subcontractor, Supplier, or other individual or carry to furnish or perform any of the Work against whom CONTRACTOR has reasonable objection.

B. If the Supplementary Conditions require the identity of contain Subcontractors, Suppliers, or other individuals or entities to be submitted to OWNER in advance for acceptance by OWNER by a specified date paior to the Effective Date of the Agreement, and if CONTRACTOR has submitted a first thereof in accordance with the Supplementary Conditions, OWNER's asceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the Bidding Documents or the Contract Documents) of any such Subcontractor, Supplier, or other individual or entity so identified may be revoked on the busit of reasonable objection after due investigation. CONTRACTOR shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity, and the Contract Price will be adjusted by the difference in the cost occasioned by such replacement, and are appropriate Change Order will be issued or Written Armendment signed. No acceptance by OWNER of any such Subcontractor, Supplier, or other individual or entity, whether initially or as a replacement, shall constitute a waiter of any right of OWNER or ENGINEER to reject defective Work.

C. CONTRACTOR shall be fully responsible to OWNER and ENGINEER for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as CONTRACTOR is responsible for CONTRACTOR's own acts and unissions. Nothing in the Contract Documents shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between OWNER or ENGINEER and any such Subcontractor, Supplier or other individual or entity, nor shall it create any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of any moneys due any such Subcontractor, Supplier, or other individual or entity except as may otherwise be required by Laws and Regulations.

D. CONTRACTOR shall be solely responsible for scheduling and coordinating the Work of Subcontractors. Suppliers, and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with CONTRACTOR.

É, CONTRACTOR shall require all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work to communicate with ENGINEER through CONTRACTOR.

** F. The divisions and scellens of the Specifications and the identifications of any Drawings shall not control CONTRACTOR in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.

G. All Work performed for CONTRACTOR by a Subcontractor of Supplier will be pursuant to an approprinte agreement between CONTRACTOR and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of DWNER and ENGINEER Whenever any such agreement is with a Subcontractor or Supplier who is listed as an additional insured on the property insurance provided in paragraph 5.06, the agreement between the CONTRAC-TOR and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against OWNER, CONTRACTOR, ENGI-NEER, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds land the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them) for all losses and damages caused by, arising out of relating to, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, CONTRACTOR will obtain the same.

207 Patent Fees and Royalties

A. CONTRACTOR shall pay all license lees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and it to the actual knowledge of OWNER or ENGINEER its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by OWNER in the Contract Documents. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER; ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees or agents, and other consultants of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device hit specified in the Contract Documents

mentary Conditions, CONTRACTOR shall obtain and pay for all construction permits and licenses. OWNER shall exist CONTRACTOR, when necessary, in obtaining such permits and licenses. CONTRACTOR shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of opening of Bids, or, if there are no Hids, on the Effective Date of the Agreement. CONTRACTOR shall pay all charges of attility owners for connections to the Work, and OWNER shall pay all charges of such utility owners for capital costs related thereto, such as plant investment fees.

109 Laws and Regulations

- A CONTRACTOR shall give all notices and comply with all Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither OWNER nor ENGINEER shall be responsible for munitaring CONTRACTOR's compliance with any Laws or Regulations.
- B. If CONTRACTOR performs any Work knowing or having reason to know that it is contrary to Laws or Regulations, CONTRACTOR shall bear all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other disputeresolution costs) arising out of or relating to such Work, however, it shall not be CONTRACTOR's primary responsibility to make certain that the Specifications and Drawings are in accordance with Laws and Regulations, but this shall not relieve CONTRACTOR of CONTRACTOR's obligations under paragraph 1.03.
- C. Changes in Laws or Regulations not known at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids) having an effect on the cost or time of performance of the Work may be the subject of an adjustment in Contract Price or Contract Times. If OWNER and CONTRACTOR are unable to agree on entitlement to or of the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in paragraph 10.05:

AM 6:10 Taxes

A CONTRACTOR shall pay all sales, consumer, use, and other similar taxes required to be paid by CONTRACTOR in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work

** Life of Sile and Other Areas

A. Limitation on Use of Site and Other Areas

- L CONTRACTOR shall confine construction equipment, the storage of materials and equipment, and the operations of workers to the Site and other areas pennitted by Laws and Regulations, and shall not intreasonably encumber the Site and other areas with construction equipment or other materials or equipment. CONTRACTOR shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or of any adjacent land or areas resulting from the performance of the Work.
- Z. Should any claim be made by any such owner or occupant because of the performance of the Work, CONTRACTOR shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law.
- 3. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold hamiless OWNER. ENGINEER, ENGINEER's Consultant, and the officers, directors, partners, employees, agents, and other consultants of each and any of them, from and against all claims, costs, losses, and damages. (including but not limited to all fees and charges of engineers, richitects, stimmeys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to. any claim or action, legal or equitable, brought by any such owner or occupant against OWNER. ENGINEER, or any other party indemnified hereunder to the extent caused by or based upon CONTRACTOR's performance of the Work.
- B. Removal of Debris During Performance of the Work: During the progress of the Work CONTRACTOR shall keep the Sile and other areas free from accumulations of waste materials, subbish, and other debris. Removal and disposal of such waste materials, subbish, and other debris shall conform to applicable Laws and Regulations
- C. Cleaning: Prior to Substantial Completion of the Work CONTRACTOR shall clean the Site and make it ready for utilization by OWNER. At the completion of the Work CONTRACTOR shall remove from the Site all tools; appliances, construction equipment and truchinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents

D. Localing Structures: CONTRACTOR shall not lead not permit any part of any structure to be leaded in any manner that will endanger the structure, nor shall CONTRACTOR subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

6.12 Record Documents

A. CONTRACTOR shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Written Amendments, Change Orders, Work Change Directives, Field Orders, and written interpretations and clarifications in good order and annotated to show changes made during construction. These record documents together with all approved Samples and a counterpart of all approved Shop Drawings will be available to ENGINEER for reference. Upon completion of the Work, these record documents, Samples, and Shop Drawings will be delivered to ENGINEER for OWNER.

6.13 Safety and Protection

- A CONTRACTOR shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work-CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to greatent damage, injury or loss to:
 - i. all persons on the Site or who may be affected by the Work;
 - 2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
 - 3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.
- H. CONTRACTOR shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR shall notify owners of adjacent property and of Underground Facilities and other utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property. All damage, injury, or loss to any property referred to in paragraph 6.13.A.2 or 6.13.A.3 crused, directly or indirectly, in whole or in part, By CONTRACTOR, any Subcontractor, Supplier, or any other individual or entity directly or indirectly comployed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by

CONTRACTOR (except damage or loss antibutable to the finall of Drawings or Specifications or to the acts or omissions of OWNER or ENGINEER or ENGINEER'S Consultant, or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly; in whole or in part, to the fault or negligence of CONTRACTOR or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them), CONTRACTOR's duties and responsibilities for safety and for protection of the Work shall continue until such time as all the Work is completed and ENGINEER has issued a notice to OWNER and CONTRACTOR in accordance with paragraph 14.07B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

6.14 Salety Representative

A. CONTRACTOR shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

6.15 Hazard Communication Programs

A. CONTRACTOR shall be responsible for coordinating any exchange of material safety data sheets or other bazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

6.16 Emergencies.

A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, CONTRACTOR, is obligated to att to prevent threatened damage, injury, or loss. CONTRACTOR shall give ENGINEER prompt written notice if CONTRACTOR shall give ENGINEER prompt written notice if CONTRACTOR believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If ENGINEER determines that a change in the Contract Documents is required because of the action taken by CONTRACTOR in response to such an emergency, a Work Change Directive or Change Order will be issued.

5.17 Shop Drawings and Samples

A. CONTRACTOR shall submit Shop Drawings to ENGINEER for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittals. All submittals will be identified as ENGINEER may require and in the number of copies specified in the General Requirements. The data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design orderic, materials, and similar data to show I NGINTEER the

proposes to provide and to enable ENGINEER to review the information for the limited purposes required by paragraph 6.17.E.

- B. CONTRACTOR shall also submit Samples to ENGINEER for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittake. Each Sample will be identified clearly as to material, Supplier, pertinent data such as catalog numbers, and the use for which intended and otherwise as ENGINEER may require to enable ENGINEER to review the submittal for the limited purposes required by paragraph. 6.17.E. The numbers of each Sample to be submitted will, be as specified in the Specifications.
- C. Where a Shop Drawing or Sample is required by the Contract Documents or the schedule of Shop Drawings and Sample submittals acceptable to ENGINEER as required by paragraph 7.07, any related Work performed prior to ENGINEER's review and approval of the pertinent aubmittal will be at the sole expense and responsibility of CONTRACTOR.

D. Submittal Procedures

- Before submitting each Shop Drawing or Sample, CONTRACTOR shall have determined and verified;
 - a; all field measurements, quantities, dimensions; specified performance criteria, installation requirements, materials; catalog numbers, and similar information with respect thereto;
 - b, all materials with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work;
 - c. all information relative to meants, methods, techniques, sequences, and procedures of construction and safety precautions and programs incident thereto; and
 - d CONTRACTOR shall also have reviewed and coordinated each Shop Drawings or: Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents
 - 2. Each submittal shall bear a stamp of specific written indication that CONTRACTOR has satisfied CONTRACTOR's obligations under the Contract Documents with respect to CONTRACTOR's review and approval of that submittal

3. At the time of each submittel, CQN-TRACTOR shall give ENGINEER specific written notice of such variations, if any, that the Shop Drawing or Sample submitted may have from the requirements of the Contract Documents, such notice to be in a written communication separate from the submittal, and, in addition, shall cause a specific notation to be made on each Shop Drawing and Sample submitted to ENGINEER for review and approval of each such variation.

E ENGINEER'S Review

- approve Shop Drawings and Samples in accordance with the schedule of Shop Drawings, and Samples submittals acceptable to ENGINEER. ENGINEER's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.
- 2. ENGINEER's review and approval will not extend to means, methods, techniques, sequences, of procedures of construction (except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.
- Shop Drawings or Samples shall not relieve CON-TRACTOR from responsibility for any variation from the requirements of the Contract Documents unless CONTRACTOR has in writing called ENGINEER's attention to each such variation at the time of each submittal as required by paragraph; the time of each submittal as required by paragraph; the time of each submittal as required by paragraph; the time of each such variation by specific written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample approval, nor will any approval by ENGINEER relieve CONTRACTOR from responsibility for complying with the requirements of paragraph 6.17.D.1:

F. Resubmittel Procedures

I. CONTRACTOR shall make corrections required by ENGINEER and shall return the required number of corrected copies of Short Drawings and submit at required new Samples for review and approval, CONTRACTOR shall direct

specific attention in writing to revisions other than the corrections called for by ENGINEER on previous submittals.

6.18 Continuing the Work

A. CONTRACTOR shall carry on the Wisk and adhere to the progress schedule during all disputes or disagreements with OWNER. No Work shall be delayed or posiponed pending resolution of any disputes or disagreements, except as permitted by paragraph 15.04 or as OWNER and CONTRACTOR may otherwise agree in writing.

6.19 CONTRACTOR'S General Wainanty and Guapantee

- A CONTRACTOR warrants and guarantees to OWNER, ENGINEER, and ENGINEER's Consultants that all Work will be in accordance with the Contract Documents and will not be defective. CONTRACTOR's warranty and guarantee hereunder excludes defects or damage caused by:
 - I, abuse, modification, or improper maintenance or operation by persons other than CON-TRACTOR, Subcontractors, Suppliers, or any other individual or entity for whom CONTRACTOR is responsible; or
 - 2. normal wear and tear under normal usage.

B. CONTRACTOR's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of CONTRACTOR's obligation to perform the Work in accordance with the Contract Documents:

L abservations by ENGINEER;

- 2. recommendation by ENGINEER or payment by OWNER of any progress or final payment;
- 3. the issuance of a certificate of Substantial Completion by ENGINEER or any payment related thereto by OWNER:
- 4. use or occupancy of the Work or any part thereof by OWNER;
- 5. any acceptance by OWNER or any failure to do so:
- 6. any review and approval of a Shop Drawing or Sample submittal or the issuance of a notice of acceptability by ENGINEER;

- 7. eny inspection, lest, or approval by others,
- 8, any correction of defective Work by OWNER.

6.20 Indemnification

A. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indomnity and hold toimless OWNER, ENGINEER, ENGINEER's Consultants, and the officers, directors, permore, employees, agents, and other consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, atterneys, and other preferencements and all sourt or arbitration or other dispute resolution seets) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage.

I is attributable to bodily injury, sickness; disease, or death, or to injury to an destruction of tangible property (other than the Werk itself); inclining the loss of use resulting therefrom; and

is coused in whole or in part by any negligent and or emission of CONTRACTOR, any Supplier, or any Individual or entity directly or indirectly employed by any of them to perform any of the Work or envent for whose sais any of them may be liable, regardless of whother or not caused in part by any regligence or emission of an individual or entity indemnified hereunder or whether liability is imposed upon each indemnified party by Lows and Regulations regardless of the negligence of any such individual or entity.

H. In any and all claims against OWNER or ENGINEER or any of their respective consultants, agents, officers, directors, partners, or employees by any employee for the survivor or personal representative of such employee) of CONTRACTOR, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under paragraph 6.20. A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for CONTRACTOR or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employed benefit acts.

C. The indemnification obligations of COMPRACTOR under paragraph 6.20 A shall not extend to the limiting of ENGINEER and INCINEER's Consultants of

to the officers, directors, persons, employees, agents, and other consultants and subcontractors of each and any of them arising out of

1. the preparation of approved of at the failure to prepare or approve, maps, Drawings, opinions, reports, ouveys, Change Orders, designs, or Specifications; or

2: giving dissilons or instructions, or falling to give them, if that is the primary sense of the injury or denners.

ARTICLE 7 - OTHER WORK

7.01 Related Work at Site

- A. OWNER may perform other work related to the Project at the Site by OWNER's employees, or let other direct contracts therefor, or have other work performed by utility owners. If such other work is not noted in the Contract Documents, then?
 - I, writing notice themos will be given to CONTRACTOR prior to starting any such other work; and
 - 2: if OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a Claim may be made therefor as provided in paragraph 10.05.
- B. CONTRACTOR shall afford each other contractor who is a party to such a direct contract and each utility owner (and OWNER, if OWNER is performing the other work with OWNER's employees) proper and safe access to the Site and a reasonable opportunity for the miroduction and storage of materials and equipment and the execution of such other work and shall properly coordinate the Work with theirs Unless otherwise provided in the Contract Documents, CONTRACTOR shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. CONTRACTOR shall not endanger any work of others by cutting, excevaling, or officewise altering their work and will only out or after their work with the written consent of ENGINEER and the others whose work will be affected. The duties and responsibilities of CONTRACTOR under this paragraph are for the benefit of such utility owners and other contractors to the extent that there are comparable provisions for the benefit of CONTRACTOR in said direct contracts between OWNER: and such quility owners and other contractors
- C. If the proper execution of results of any part of CONTRACTOR's Work depends upon work performed

by others under this Article 7, CONTRACTOR shall inspect such other work and promptly report to ENGI-NEER in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of CONTRACTOR's Work. CONTRACTOR's failure to so report with constitute an acceptance of such other work as fit and proper for integration with CONTRACTOR's Work except for latent defects and deficiencies in such other work.

7.02 Coordination

- A. If OWNER intends to contract with others for the performance of other work on the Project at the Site, the following will be set forth in Supplementary Conditions:
 - 1, the individual on entity who will have authority and responsibility for coordination of the activities among the various contractors will be identified;
 - 2. The specific matters to be covered by such authority and responsibility will be itemized; and
 - the extent of such authority and responsibilities will be provided.
- B. Unless otherwise provided in the Supplementary Conditions, OWNER shall have sole authority and responsibility for such coordination

ARTICLE 8 - OWNER'S RESPONSIBILITIES

8,02 Communications to Contractor

A. Except as otherwise provided in these General Conditions, OWNER shall issue all communications to CONTRACTOR through ENUINEER.

8.02 Replacement of ENGINEER

A. In case of termination of the employment of ENGINEER, OWNER shall appoint an engineer to whom CONTRACTOR makes no reasonable objection; whose status under the Contract Documents shall be that of the former ENGINEER.

8.03 Furnish Data

A. OWNER shall promptly furnish the data required of OWNER under the Contract Documents.

8 84 Pay Promptly When Duc

A OWNER shall make payments to CONTRAC-TOR promptly when they are due as provided in paragraphs 14.02 C and 14.07 C A. OWNER's duties in respect of providing lands and exsements and providing engineering surveys to establish reference points are set forth in paragraphs 4.01 and 4.05. Paragraph 4.02 refers to OWNER's identifying and making available to CONTRACTOR copies of reports of explorations and tests of substrations conditions and drawings of physical conditions in or relating to existing surface or substrates structures at or contiguous to the Site that have been utilized by ENGINEER in preparing the Contract Documents.

8.06 Insurance

A. OWNER's responsibilities, if any, in respect to purchasing and resistations liability and property insurarise are set forth in Authors.

8,07 Change Orders

A. OWNER is obligated to execute Change Orders as indicated in paragraph 10.01.

\$.08 Inspections, Tests, and Approvals

A. OWNER's responsibility in respect to certain inspections, tests, and approvals is set forth in paragraph 13.03.8.

8.09 Limitations on OWNER's Responsibilities.

A. The OWNER shall not supervise, direct, or have control of authority over, nor be responsible for, CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the performance of the Work. OWNER will not be responsible for CONTRACTOR's failure to perform the Work in accordance with the Contract Documents.

8.10 Lindisclosed Hazardous Environmental Condition

A. OWNER's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in paragraph 4.06.

Evidence of Financial Attangements

A, If and to the extent OWNER has agreed to furnish CONTRACTOR reasonable evidence that linancial arrangements have been made to satisfy OWNER's obligations under the Contract Documents, OWNER's responsibility in respect thereof will be as set forth in the Supplementary Conditions.

ARTICLE 9 - ENGINEER'S STATUS TAIRING CONSTRUCTION

9.01 CWNER'S Representative

A. ENGINEER will be OWNER's representative during the construction period. The duties and responsibilities and the limitations of authority of ENGINEER as: OWNER's representative during construction are set forth in: the Contract Documents and will not be changed without written consent of OWNER and ENGINEER.

9.02 Visits to Site

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A. ENGINEER will make visits to the Site at intervals appropriate to the various stages of construction as ENGINEER deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects. of CONTRACTOR's executed Work. Based on information obtained during such visits and observations, ENGI-NEER, for the benefit of OWNER, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. ENGINEER will not be required to make exhibitive or continuous inspections on the Site to check the quality or quantity of the Work. ENGINEER's efforts will be directed toward providing for OWNER is greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations. ENGINEER will keep OWNER informed of the progress of the Work and will endeavor to guard OWNER against defective Work.

B. ENGINEER's visits and observations are subject to all the limitations on ENGINEER's authority and responsibility set forth in paragraph 9.10, and particularly, but without limitation, during or as a tesult of ENGINEER's visits or observations of CONTRACTOR's Work ENGINEER will not supervise, direct, control, or have authority over or be responsible for CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the salety precautions and programs incident thereto, or for any failure of CONTRACTOR in comply with Laws and Regulations applicable to the performance of the Work.

9.03 Project Representative

A. If OWNER and ENGINEER agree, ENGINEER soft furnish a Resident Project Representative to assist ENGINEER in providing more extensive observation of the Work. The responsibilities and authority and limitations thereon of any such Resident Project Representative and assistants will be as provided in paragraph 9.10 and in the Supplementary Conditions. If OWNER designates another representative or agent to represent OWNER at the Site who is not ENGINEER's Consultant, agent or con-

ployee, the responsibilities and authority and limitations shareon of such other individual or entity will be as provided in the Supplementary Conditions.

9.04 Cincifications and Interpretations

A. ENGINEER will issue with reasonable promptness such written clarifications or interpretations of the
requirements of the Contract Documents as ENGINEER
may determine necessary, which shall be consistent with
the intent of and reasonably interable from the Contract
Documents. Such written clarifications and interpretations
will be binding on OWNER and CONTRACTOR. If
OWNER and CONTRACTOR are unable to agree on
emittement to or on the amount or extent, if any, of any
adjustment in the Contract Price or Contract Times, or
both, that should be allowed as a result of a written
clarification or interpretation, a Claim may be made
therefor as provided in paragraph 10.05.

9.05 Authorized Variations in Work

A. ENGINEER may authorize misor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on OWNER and also on CONTRACTOR, who shall perform the Work involved promptly. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of a Field Order, a Claim may be made therefor as provided in paragraph 10.05.

9.06 Rejecting Defective Work

A. ENGINEER will have authority to disapprove or reject Work which ENGINEER believes to be defective, or that ENGINEER believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents: ENGINEER will also have authority to require special inspection of testing of the Work as provided in paragraph 13 04; whether or not the Work is fabricated, installed, or completed:

9.07 Shop Drawings, Change Orders and Payments

A. In connection with ENGINEER's authority as to Shop Drawings and Samples, see paragraph 6.17.

B: In connection with ENGINEER's authority as to Change Orders, see Articles 10, 11, and 12

C In connection with ENGINEER's authority as to Applications for Psyment, see Article 14.

9.08 Determinations for Unit Price Work

A ENGINEER will determine the actual quantities and classifications of Unit Price Work performed by CONTRACTOR. ENGINEER will review with CONTRACTOR the ENGINEER's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). ENGINEER's written decision thereon will be final and binding (except as modified by ENGINEER to reflect changed factual conditions or more accurate data) topon OWNER and CONTRACTOR, subject to the provisions of paragraph 10.05.

9.09 Decisions on Requirements of Contract Documents and Acceptability of Work

A. ENGINEER will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. Claims, disputes and other matters relating to the acceptability of the Work, the quantities and classifications of Unit Price Work, the interpretation of the requirements of the Contract Documents pertaining to the performance of the Work, and Claims seeking changes in the Contract Price or Contract Times will be referred initially to ENGINEER, in writing, in accordance with the provisions of paragraph 10.05, with a request for a formal decision.

B. When functioning as interpreter and judge under this paragraph 9.09, ENGINEER will not show partiality to OWNER or CONTRACTOR and will not be liable in connection with any interpretation or decision rendered in good faith in such expacity. The rendering of a decision by ENGINEER pursuant to this paragraph 9.09 with respect to any such Claim, dispute, or other matter (except any which have been waived by the making or acceptance of final payment as provided in paragraph 14.07) will be a condition precedent to any exercise by OWNER or CONTRACTOR of such rights or remedies as either may otherwise have under the Contract Documents or by Laws or Regulations in respect of any such Claim, dispute, or other matter.

9.10 Limitations on ENGINEER's Authority and Responsibilities

A. Neither ENGINEER's authority or responsibility under this Article 9 or under any other provision of the Contract Documents nor any decision made by ENGINEER in good fath either to exercise or not exercise such authority or responsibility exercise, or performance of any authority or responsibility by ENGINEER shall create, impose, or give rise to any duty in contract, tori, or otherwise owed by ENGINEER to CONTRACTOR, any Subcontractor, any Supplier, any

other individual or chiffy, or to any surery for or employee or agent of any of them.

- B: ENGINEER will not supervise, direct, control, or have authority over or be responsible for CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the performance of the Work. ENGINEER will not be responsible for CONTRACTOR's failure to perform the Work in accordance with the Contract Documents.
- C. ENGINEER will not be responsible for the acts or omissions of CONTRACTOR or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.
- D: ENGINEER's review of the first Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, Bonds, pertificates of inspection, tests and approvals, and other documentation required to be delivered by paragraph 14.07. A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals that the results certified indicate compliance with, the Contract Documents.
- E. The limitations upon authority and responsibility and forth in this paragraph 9.40 shall also apply to ENGINEER's Consultants, Resident Project Representative, and assistants.

ARTICLE 10 - CHANGES IN THE WORK; CLAIMS

10.01 Authorized Changes in the Work

- A. Without invalidating the Agreement and without notice to any surety, OWNER may, at any tiens of from time to time, order additions, deletions, or revisions in the Work by a Written Amendment, a Change Order, or a Work Change Directive. Upon receipt of any such document, CONTRACTOR shall promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).
- B. If OWNER and CONTRACTOR are unable to agree an entitlement to, or on the amount or extent, if any, of an adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a Work Change Directive, a Claim may be made therefor as provided in paragraph 10 05:

10.02 Unauthorized Changes in the Work

A: CONTRACTOR shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents as amended, modified, or supplemented as provided in paragraph 1.04, except in the case of an emergency as provided in paragraph 6.16 or in the case of uncovering Work as provided in paragraph 13.04.B.

10.03 Execution of Change Orders

- A. OWNER, and CONTRACTOR shall execute appropriate Change Orders recommended by ENGINEER (or Written Amendments) covering:
 - 1. changes in the Work which are: (i) ordered by OWNER pursuant to paragraph 10:01.A, (ii) required because of acceptance of defective Work under paragraph 13:08.A or OWNER's correction of defective Work under paragraph 13:09, or (iii) agreed to by the parties:
 - 2. changes in the Continet Price of Contract. Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive, and
 - 3. changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by ENGINEER pursuant to paragraph 10.05; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, CONTRACTOR shall carry on the Work and adhere to the progress schedule as provided in paragraph 6.18.A.

10.04 Notification to Surety

A. If notice of any change affecting the general scope of the 'Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times) is required by the provisions of any Bondio be given to a surely, the giving of any such notice will be CONTRACTOR's responsibility. The amount of each applicable Bond will be adjusted to reflect the effect of any such change:

10.05 Claims and Disputes

A. Notice: Written notice stating the general risture of each Claim, dispute, or other matter shall be delivered by the claimant to ENGINEER and the other party to this. Contract promptly (but in no event later than 10 days) after

the start of the event giving rise thereto. Notice of the amount or extent of the Claim, dispute, or other matter with supporting data shall be delivered to the ENGINEER and the other party to the Contract within 60 days after the start of such everal (unless ENGINEER allows additional time for claimant to submit additional or more accurate date in support of such Claim, dispute, or other matter). A Claim for an adjustment in Contract Price shall be: prepared in accordance with the provisions of paragraph: 12.01.B. A Claim for an adjustment in Contract Time shall be prepared in accordance with the provisions of paragraph 12.02.B. Each Claim shall be accompanied by claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant believes it is entitled as a result of said event. The opposing party shall submit any response to ENGINEER and the claimant within 30 days after receipt of the claimant's last submittel (unless ENGINEER allows additional time).

- B. ENGINEER's Decision: ENGINEER will render a formal decision in writing within 30 days after receipt of the last submittal of the claimant of the last submittal of the opposing party, if any. ENGINEER's written decision on such Claim, dispute, or other matter will be final and binding upon OWNER and CONTRACTOR unless:
 - I. an appeal from ENGINEER's decision is taken within the time limits and in accordance with the dispute resolution procedures set forth in Article 16; or
 - 2. If no such dispute resolution procedures have been set forth in Article 16, a written notice of intention to appeal from ENGINEER's written decision is delivered by OWNER or CONTRACTOR to the other and to ENGINEER within 30 days after the date of such decision, and a formal proceeding it instituted by the appealing party in a forum of competent jurisdiction within 60 days after the date of such decision or within 60 days after the date of such decision or within 60 days after Substantial Completion, whichever is later (unless otherwise agreed in writing by OWNER and CONTRACTOR), to exercise such rights or remedies as the appealing party may have with respect to such Claim; dispute, or other matter in accordance with applicable Laws and Regulations.
- C. If ENGINEER does not render a formal decision in writing within the time stated in paragraph 10.05.B, a decision denying the Claim in its entirety shall be deemed to have been issued 11 days after receipt of the last submitted of the element or the last submitted of the element or the last submitted of the opposing party, if any,
- D. No Claims for an adjustment in Contract Price or Contract Times for Milestones) will be valid if not submitted in accordance with this paragraph 10.05

ARTICLE 11 - COST OF THE WORK; CASH ALLOWANCES; UNIT PRICE WORK

11.01 Cort of the Work

recens the cum of all costs necessarily incurred and poid by CONTRACTOR in the proper performance of the Work. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contrast Price is determined on the basis of Cost of the Work; the costs to be reimbured to CONTRACTOR will be only those additional or incremental costs required because of the change in the Work or because of the event giving rice to the Claim. Singer as otherwise may be agreed to in writing by OWNER, such costs shall be in amounts no higher then those prevailing in the locality of the Project, shall include only the following items, and shall not include any of the sects itemized in prograph 11.01.B.

- 1 Payoll costs for employees in the direct employ of CONTRACTOR in the performance of the Work under schadules of jeb electifications agreed upon by OWNER and CONTRACTOR. Such employees shall include without limitation superintendents, foremen, and other personnel employed full time at the Site. Paytoll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent en the Work. Payroll costs chall include, but not be limited to salarine and wages plus the cost of fringe benefits, which shall include assist resurity contributions, unemployment, excise, and payrell taxes, workers compensation, health and retirement benefits, bonuses, sick larve, vecation and holiday pay applicable thereto. The experises. of portaining Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall so included in the above to the extent authorized by OWNER.
- 2 Cost of all meterials and equipment for nished and incorporated in the Work, including costs of transportation and storage thereof, and suppliers' field corvices required in connection therewith. All each discounts shall accrue to CONTRACTOR unless OWHER deposite funds with CONTRACTOR with which to make payments, in which case the cost discounts shall accrue to OWHER. All trade discounts, retains and refunds and returns from sole of stippus materials and equipment shall accrue to OWHER, and CONTRACTOR shall make provisions so that they may be obtained.
- 3. Payments made by CONTRACTOR to Subjectiveless for Wayle performed by

Subcontractors, if required by OWNER, CONTRACTOR shall obtain competitive bids from subcontractors acceptable to OWNER and CONTRACTOR, and shall deliver such bids to OWNER, who will then determine, with the advice of DNGINER, which bids, if any, will be acceptable. If any subcontract previous that the Subpontractor is to be paid on the basis of Cost of the Work and fee shall be determined in the same manner of CONTRACTOR's Cost of the Work and fee shall be determined in the same manner of CONTRACTOR's Cost of the Work and fee as pravided in this paragraph 11.01.

discussed appealed agreement continuing leading and limited to anguneers, broketode, testing laboratories, purposes, alternate, and assessments) on played for agreement appealically related to the Work.

S. Supplemental sorts including the following:

partation of necessary transpartation travel, and subsistance expanses of CONTRACTOR's employees incurred in the starge of duties connected with the Work.

h Cotty including transportation and maintenance of all materials, supplies, equipment, mechanics, appliences, affice, and temporary facilities at the Site, and hand took not owned by the workers, which are somewhed in the performance of the Work, and soct, less market value, of such items used but not concurred which remain the property of CONTRACTOR.

and machinery, and the parts thereof whether rented from CONTRACTOR or others in accordance with the advise of ENGINEER, and the sects of transportation, loading, unleading, accountly, dismanting, and removal thorast. All such accts that he is accordance with the terms of said rental agreements. The routal of any such equipment, machinery, or parts that coace when the use thereof is no longer necessary for the Work.

A Sales, consumer also, and other similar sales, related to the Work, and for which COPI-TRACTOR is liable, imposed by Laws and Regulations.

Deposits lost for nauses other than negligence of CONTRACTOR, any Subscentrator, prenyone directly or indirectly employed by any of them or for whose ests any of them may be liable, and reveily payments and loss for permits and feeness.

to Louise and damages land related expenses) caused by demage to the Work, not compensated by insurance or otherwise, suctained by COMPACTOR in connection with the performanage of the Work (except losses and damages within the deductible enjoyate of property incurates agtablished in accordance with peragraph 5.06.D), provided such losses and damages have resulted from causes other than the negligenes of CONTRACTOR, any Subcontractor, or unyone directly of indirectly employed by any of them or for whose sets any of them may be liable. Such losses shall include settlements made with the written consent and approval of OWNER. He such logues, damages, and expenses shall be included in the Cost of the Work for the purpose of delermining CONTRACTOR's Isc.

g. The oct of milities, fuel, and senitary

h. Minor expenses such as telegrams, long distance telephone salls, telephone service at the Site; expressings, and similar polly each dome in connection with the Work:

i. When the Cost of the Work is used to determine the value of a Change Order or of a Claim, the post of premiums for additional Bonds and insurance required because of the changes in the Work or saused by the event giving rise to the Claim.

j. When all the Work is performed on the baris of cost plus, the costs of promisms for all Bonds and insurance CONTRACTOR is required by the Contract Documents to purchase and maintains.

B. Costs Excluded: The term Cost of the Work-shall not include any of the following items:

1. Payrell eachs and other compensation of CCATTRACTOR's officers, executives, principals (of pertanoships and sole proprietorships), general managers, engineers, architects, estimators, atterneys, auditors, accommunis, purchasing and contesting agents, especialist, timelicopers, clarks, and other personnel employed by CONTRACTOR, whether at the Site or in CONTRACTOR's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in personnel 11.01.A.1, all of which are to be considered administrative costs, envered by the CONTRACTOR's fee.

- 2 Expenses of CONTRACTOR's principal and branch offices other than CONTRACTOR's office at the Site.
- 3. Any part of CONTRACTOR's capital expenses, including interest on CONTRACTOR's sapital employed for the Work and sharges against CONTRACTOR for delinquent payments.
- F. Costs due to the negligence of CON-TRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose sate any of them may be liable, including but not limited to the entrection of defective Work; disposed of materials or equipment wrongly supplied, and making good any derrongs to property.
- 5. Other eventual or general expense costs of any kind and the costs of any term not specifically and expensely included in paragraphs 11.01.A and 11.01.B.
- performed on the basis of cost plus, CONTRACTOR's fee performed on the basis of cost plus, CONTRACTOR's fee that the determined as set facts in the Agreement. When the calus of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work CONTRACTOR's for shall be determined as set forth in paragraph 12.01.0.
- D. Decimination: Whenever the Cost of the Work for any purpose in to be determined pursuant to paragraphs I.O. A and I.O. B. COMTRACTOR will establish and maintain reported disconting practices and submit in a form appealed depositing practices and submit in a form appealed to EMCDIESR an itemized nost breakdown together with supporting data.

11.02 Cash Allewances

- A. It is understood that CONTRACTOR has included in the Contract Price all allowerses so named in the Contract Desuments and shall pause the Worlf so prevent to be performed for such sums as may be acceptable to OWNER and ENGINEER. CONTRACTOR agrees that:
 - T. the allowance include the cost to CON-TRACTOR (less any applicable trade discounts) of materials and equipment required by the allowance as to be delivered at the Site, and all applicable toxes; and
 - 2. CONTRACTOR's costs for unloading and handling on the Site; labor; installation would, avertical, profit, and other expenses contemplated for the allowances have been included in the Contract Price and not in the allowances, and no

- demand for additional payment on annount of any of the foregoing will be valid.
- B. Prior to final payment, an appropriate Change. Order will be insued as recommended by ENGINEER to reflect actual amounts due CONTRACTOR on appount of Work powered by allowonces, and the Contract Price shall be appropriatingly adjusted.

14.03 Unit Price Work

- A Where the Contract Decements provide that all ar part of the Wark is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work on amount equal to the sum of the unit price for each repeated; identified item of Unit Price Work times the estimated quantities of thems of Unit Price work are not guaranteed quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining on initial Contract Price. Distarrainations of the solute quantities and classifications of Unit Price Work performed by CONTRACTOR will be made by ENGINEER subject to the previsions of paragraph 908.
- B: Each unit price will be demand to include an amount sensidered by CONTRACTOR to be adequate to some CONTRACTOR's overhead and profit for each operately identified item.
- C. OWNER or COLFTENCTOR may make a Claim for an adjustment in the Contract Prior in accordance with paragraph 10.05 if:
 - I. the quantity of any item of Unit Price Work performed by CONTRACTOR differs make righty and rightformally from the ectimated quantity of such item indicated in the Agreement; and
 - 2. there is no norresponding adjustment with responding adjustment with
 - 3. If CONTRACTOR believes that CONTRACTOR is entitled to an inorease in Contract Price as a result of having incurred additional expense or OWNER believes that OWNER is entitled to a decrease in Contract Price and the parties are unable to agree as to the aniouni of any such increase or decrease.

ARTICLE 11 - CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

IZOI Change of Contract Price

A. The Control Prior may only be changed by a Change Order or by a Written Amendment. Any Claim for an adjustment in the Contract Price shall be based on

written police submitted by the party making the Claim to the Chical PER and the other party to the Control in accordance with the provisions of paragraph 10.05.

The value of any Work sowred by a Change Order or of any Claim for an adjustment in the Contract Price will be determined as follows:

1. White the Work involved is covered by unit prises enthined in the Contract December. by application of such unit prises to the quantities of the Korns involved (subject to the provisions of paragraph 11.03); or

2. office the Work involved is not envered by unit priors contained in the Contract Decuments, by a mutually opposed lump surn (which may include an allowance for everhand and profit not necessarily in accordance with paragraphs 12.01.C.2); or

2. Where the Work involved is not covered by unit prices contained in the Contract Documents and agreement is a lump ours is not received under paragraph 1201 E.2 in the basis of the Cott of the Work (determined as provided in paragraph 11.01) plus a CONTRACTOR's fee for everyond and profit (determined as provided in paragraph 12.01.C).

C. CONTRACTOR'S Fee! The CONTRACTOR'S for overhead and profit shall be determined as follows:

1 a mutually accepiable fixed fee, or

2. If a fixed less is ant agreed upon, then a fee based on the following parentinges of the various portions of the Cost of the Work.

log costs incurred under paragraphs
11.01.A.1 and 11.01.A.2 the
CONTRACTOR's fee shall be 15 persent;

b. for easis incurred under perograph.
11.01.0.1, the CONTRACTOR's tee shall be
tive percent;

a. where one at more tiers of subcontrate are on the beers of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of paragraph. 12.01.02a is that the Subcontrator who actually performs—the Work, at whatever tier, will be paid a fee of 15 percent of the costs incurred by such Subcontrator under paragraphs 11.01.0.1 and 11.01.0.2 and that any higher tier Subcontrator and CONTRACTOR will each be paid a fee of five percent of the amount paid to the next lower tier Subcontractor;

at no fee shall be payable on the basis of easts - tionared under paragraphs 11.01.A.4, 11.01.A.3, and 11.01.B;

contractor to owner for any change which results in a not decrease in cost will be amount of the satual not decrease in cost plus a deduction in CONTRACTOR's fee by an arricumt agust in five persent of such not decrease; and

When both additions and aredits one involved in any one change, the adjustment in CONTRACTOR's fee shall be computed on the basic of the not change in accordance with paragraphs 17.01 G.2.a. through 17.01 G.2.a. inclusive:

12.02 Change of Contract Times

A. The Contract Times (or Milestones) may only be changed by a Change Order or by a Written Amendment Any Claim for an adjustment in the Contract Times (or Milestones) shall be based on written notice submitted by the party making the claim to the ENGINEER and the other party to the Contract in accordance with the provisions of paragraph 10.05.

B; Any adjustment of the Contract Times (or Milestones) covered by a Change Order or of any Claim for an adjustment in the Contract Times (or Milestones) will be determined in accordance with the provisions of this Article 12.

12.03 Delays Beyond CONTRACTOR's Control

A: Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestonies) due to delay beyond the control of CONTRACTOR, the Contract Times (or Milestones) will be extended in an amount equal to the time lost due to such delay if a Claim is made therefor as provided in paragraph 12.02.A. Delays beyond the control of CONTRACTOR shall include, but not be limited to, acts or neglect by OWNER, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, abnormal wanther conditions, or acts of God.

12.04 Delays Within CONTRACTOR's Control

A The Contract Times (or Milestones) will not be extended due to delays within the control of CONTRACTOR. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of CONTRACTOR

17.05 Delays Beyond OKNER's and CONTRACTOR's Control

A. Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times for Milestones) due to delay beyond the control of both OWNER and CONTRACTOR, an extension of the Contract Times (or Milestones) in an amount equal to the time lost due to such delay shall be CONTRACTOR's sole and exclusive remedy for such delay.

12.06 Delay Damages

- A.: In no event shall OWNER or ENGINEER be liable to CONTRACTOR, any Subcontractor, any Supplier, or any other person or organization, or to any surery lot or employee or agent of any of them, for damages arising out of or resulting from:
 - delays caused by or within the control of CONTRACTOR; or
 - Z delays beyond the control of both OWNER and CONTRACTOR including but not limited to fires, floods, epidemics, abnormal weather conditions, acts of God, or acts or neglect by utility samers or other contractors performing other work as contemplated by Article 7.
- B. Nothing in this paragraph 12.06 bars a change in Contract Price pursuant to this Article 12 to compensate CONTRACTOR due to delay, interference, or disruption directly attributable to actions or inactions of OWNER or anyone for whom OWNER is responsible.
- * ARTICLE 13 TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK.

13.01 Notice of Delegis

A: Prompt notice of all defective Work of which of WNER or ENGINEER has actual knowledge will be given to CONTRACTOR. All defective Work may be rejected, connected, or accepted as provided in this Article 13.

13.02 Access to Work

A OWNER, ENGINEER, ENGINEER's Consultants, other representatives and personnel of OWNER, independent testing, laboratories, and governmental agencies with jurisdictional interests will have access to the Site and the Work at reasonable times for their observation, inspecting, and testing. CONTRACTOR shall provide them proper and sale conditions for such access and advise them of CONTRACTOR's Site safely

procedures and programs so that they may comply therewith as applicable.

13.03 Tests and Inspections

- A. CONTRACTOR shall give ENGINEER timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.
- B. OWNER shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract. Documents except:
 - 1. for inspections, tests, or approvals covered by paragraphs 13,03.C and 13.03.D below.
 - 2. that exists incurred in connection with tests or inspections conducted pursuant to paragraph 13.04.B. shall be paid as provided in said paragraph 13.04.B; and
 - in the Contract Documents.
- C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspecied, tested, or approved by an employee or other representative of such public body, CONTRACTOR shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish ENGINEER the required certificates of inspection or approval.
- D. CONTRACTOR shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for OWNER's and ENGINEER's acceptance of materials or equipment to be incorporated in the Work; or acceptance of materials, mix designs, or equipment submitted for approval prior to CONTRACTOR's purphase thereof for incorporation in the Work. Such inspections, tests, or approvals shall be performed by organizations acceptable to OWNER and ENGINEER.
- E. It say Work for the work of others) that is to be enspected, tested, or approved is covered by CONTRACTOR without written concurrence of ENGINEER, it must, if requested by ENGINEER, be uncovered for observation.
- F. Uncovering Work as provided in paragraph 11.03.E shall be at CONTRACTOR's expense unless CONTRACTOR's intention to cover the same and ENGINEER has not acted with reasonable promptness in response to such notice.

13.04 Uncovering Work

A. If any Work is covered contrary to the written request of ENGINEER, it must, if requested by ENGINEER, be uncovered for ENGINEER's observation and replaced at CONTRACTOR's expense.

If ENGINEER considers it necessary or advisable that provinced Work he observed by ENGINEER or inspected or tested by others, CONTRACTOR, at ENGINEER's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as ENGINEER may require, that portion of the Work in question, furnishing all necessary labor, material, and equipment. If it is found that such Work is defective, CONTRACTOR shall pay all Cleans, costs, losses, and damages (including but not limited to all lees and charges of engineers, architects, situmeys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or seletting to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and OWNER shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, OWNER may make a Claim therefor as provided in paragraph 10.05. If, however, such Work is not found to be defective. CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Times (or Milestones), or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are mosble to agree as to the amount or extent thereof, CONTRACTOR may make a Claim therefor as provided in paragraph 10,05,

1305 OWNER May Stop the Work

A. If the Work is defective, or CONTRACTOR fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, OWNER may order CONTRACTOR to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of OWNER to stop the Work shall not give rise to any duty on the part of OWNER to exercise this right for the benefit of CONTRACTOR, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

11.06 Correction or Removal of Defective Work

A. CONTRACTOR shall correct all defective Work, whether or not fabricated, installed, or completed, or, if the Work has been rejected by ENGINEER, remove it from the Project and replace it with Work that is not defective. CONTRACTOR shall pay all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects; attorneys, and other professionals and all court or arbitration or other dispute resolution

costs) saising out of or relating to such correction or removal (including but not limited to all costs of repair or replacement of work of others).

13.07 Correction Period

A. If within one year after the date of Substantial Completion or such larger period of time as may be prescribed by Laws or Regulations or by the terms of any applicable special guarantee required by the Contract Decements or by any specific provision of the Contract Documents, any Work is found to be defective, or if the repair of any damages to the land or areas made available For CONTRACTOR's use by OVATER as permitted by Laws and Regulations as automplated in paragraph E.I.I.A se found to be defective. CONTRACTOR shall monathy, without cost to OWNER and in asperdance with CAVALLACION instructions: (i) repoir such defective land or erent, or (ii) correct such defenies. Work or, if the defective Work has been rejected by OWNER, remove it from the Project and replace it with Work that is not defective, and (iii) talisfactorily correct or repair of remove and replace any damage to other Work, to the work of other or other land or scens resulting discolrom. If CONTRACTOR does not promptly comply with the terms of such instructions, or in an emergency where delay would nause terious risk of loss or damage, OWNER may have the defective Work corrected or required or may have the rejected Work removed and replaced, and all Claims, wors, lotes; and demages (including but not limited to all fort and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other display resolution nosts) arising out of or relating to such entrolled of report of such removal and replacement Goduling but not limited to all costs of repair or replacemant of work of others) will be paid by CONTRACTOR,

- It in special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to tup from an earlier date if so provided in the Specifications or by Written Amendment.
- C. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph 13.07, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.
- D. CONTRACTOR's obligations under this paragraph 13.07 are in addition to any other obligation or warranty. The provisions of this paragraph 13.07 shall not be construed as a substitute for or a warver of the provisions of any applicable statute of function or regions

A. If instead of requiring conceiling or removal and replacement of defective Work, OWNER (and, prior to ENGINEER's recommendation of final payment, ENGINEER) prefers to accept it, OWNER may do so. CONTRACTOR shall pay all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) attributable to OWNER's evaluation of and eletermination to accept such defective Work (such vosts to be approved by ENGINEER as to reasonableness) and the diminished value of the Work to the extent not otherwise peid by CONTRACTOR pursuant to this sentence. If any such acceptance occurs prior to ENGINEER's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work, and OWNER shall be midded to an appropriate decrease in the Contract Price, reflecting the diminished value of Work so accepted. If the parties are unable to agree as to the amount thereof, OWNER may make a Claim therefor as provided in paragraph 10.05. If the acceptance occurs after such recommendation, an appropriate amount will be paid by CONTRACTOR 10 OWNER.

11.09 GWNER May Correct Delective Work

A. If CONTRACTOR fails within a reasonable time after written notice from ENGINEER to correct defective. Work or to remove and replace rejected Work as required by ENGINEER, in accordance with paragraph 13.06.A, or if CONTRACTOR fails to perform the Work in accordance with the Contract Documents, or if CONTRACTOR fails to comply with any other provision of the Contract Documents, OWNER may, after seven days written notice to CONTRACTOR, correct and remedy any such deficiency.

B: In exercising the rights and remedies under this paragraph, OWNER shall proceed expeditiously. In connection with such corrective and remedial action. OWNER may exclude CONTRACTOR from all or part of the Site, take possession of all or part of the Work and suspend CONTRACTOR's services related thereto, take possession of CONTRACTOR's tools, appliances, construction equipment and machinery at the Sile, and incorporate in the Work all materials and equipment stored at the Site or for which OWNER has paid CONTRACTOR but which are stored elsewhere. CONTRACTOR shall allow OWNER, OWNER's representatives, agents and employees, OWNER's other contractors, and ENGINCER and ENGINEER's Consultants access to the Sile to enable OWNER to exercise the rights and remedies under this paragraph.

C. All Claims, costs, losses, and damages fincluding but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all point or arbitration or other dispute resolution costs) mounted or sustained by OWNER in exercising the rights and remedies under this paragraph 13 09 will be charged against CONTRACTOR, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and OWNER shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount of the adjustment, OWNER may make a Claim therefor as provided in paragraph 10.05. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of CONTRACTOR's defective Work.

D. CONTRACTOR shall not be allowed an extension of the Contract Times (or Milestones) because of any delay in the performance of the Work attributable to the exercise by OWNER of OWNER's rights and remedies under this paragraph 13,09.

ARTICLE 14 - PAYMENTS TO CONTRACTOR AND COMPLETION

14.01 Schedule of Values

A. The schedule of values established as provided in paragraph 2.07 A Will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to ENGINEER. Progress payments on account of Unit Price Work will be based on the number of units completed.

14.02 Progress Paymonts

A. Applications for Payments

At least 20 days before the date established for each progress payment (but not more often than once a month), CONTRACTOR. shall submit to ENGINEER for review an Application for Payment filled out and signed by CONTRACTOR covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Sile or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that OWNER has received the materials and ensipment free and clear of all Liens and evidence that the materials and equipment are covered by appropriate property insurance or other arrangements to protect OWNER's interest therein, all of which must be satisfactor, to OWNER.

- 2. Beginning with the second Application for Payment, each Application shall include an affidavit of CONTRACTOR stating that all previous progress payments received on account of the Work have been applied on account to discharge CONTRACTOR's legitimate obligations associated with prior Applications for Payment.
- 2. The amount of rotatings with respect to progress payments will be as simulated in the Agreement.
- B. Review of Applications
 - TENCHMER will, within 10 days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to CONTRACTOR indicating in writing DAGINEER's researce for refusing to recommend payment. In the latter case, CONTRACTOR may make the necessary corrections and resubmit the Application.
 - 2. ENGINEER's recommendation of any payment requested in an Application for Payment will constitute a representation by ENGINEER to OWNER, based on ENGINEER's observations on the Site of the executed Work as an experienced and qualified design professional and on ENGINEER's review of the Application for Payment and the accompanying data and schedules, that to the best of ENGINEER's knowledge, information and belief:
 - a. the Work has progressed to the point indicated
 - b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under paragraph 9.08, and to any other qualifications stated in the recommendation); and
 - e. the conditions precedent to CONTRACTOR's being entitled to such payment appear to have been fulfilled in so far as it is ENGINEER's responsibility to observe the Work.

- 3. By recommending any such payment-ENGINEER will not thereby be deemed to have represented that: (i) inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to ENGINEER in the Contract Documents; or (ii) that there may not be other matters or issues between the parties that might entitle CONTRACTOR to be paid additionally by OWNER or entitle OWNER to withhold payment to CONTRACTOR.
- ENGINEER's review 4. Neither CONTRACTOR's Work for the purposes of recommending payments nor ENGINEER's recomimendation of any payment, including final payment, will impose responsibility on ENGINEER to supervise, direct, or control the Work or for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for CONTRACTOR's failure to comply with and Regulations applicable Laws CONTRACTOR's performance of the Work. Additionally, said review or recommendation will not impose responsibility on ENGINEER to make any examination to ascertain how or for what purposes CONTRACTOR has used the moneys paid on account of the Contract Price, or to determine that title to any of the Work, materials, of equipment has passed to OWNER free and clear of any Liens.
- 5. ENGINEER may refuse to recommend the whole or any part of any payment if, in ENGINEER's opinion, it would be incorrect to make the representations to OWNER referred to in paragraph 14.02.B.2. ENGINEER may also refuse to recommend any such payment or, because of subsequently discovered evidence or the results of subsequent inspections of tests, revise or revoke any such payment recommendation previously made, to such extent as may be necessary in ENGINEER's opinion to protect OWNER from loss because:
 - a, the Work is defective, or completed Work has been damaged, requiring correction or replacement,
 - b. the Contract Price has been reduced by Witten Amendment of Change Orders;
 - is. OWNER has been required to correct defective. Work of complete Work in according with paragraph 13.09, or

d. ENGINEER has actual knowledge of the occurrence of any of the events enumerated in paragraph 15.02.A.

C. Payment Becomes Due

1. Ten days after presentation of the Applications for Payment to OWNER with ENGINEER'S recommendation, the amount recommended will (subject to the provisions of paragraph 14.02.D) become due, and when due will be paid by OWNER to CONTRACTOR.

**

D. Reduction in Payment

- 1. OWNER may refuse to make payment of the full amount recommended by ENGINEER because:
 - a. claims have been made against OWN-ER on account of CONTRACTOR's performance or furnishing of the Work.
 - b. Liens have been filed in connection with the Work; except where CONTRACTOR has delivered a specific Bond satisfactory to OWNER to secure the satisfaction and discharge of such Liens;
 - c. there are other items entitling OWN-ER to a set-off against the amount recommended; or
 - d OWNER has actual knowledge of the occurrence of any of the events enumerated in paragraphs 14.02.B.S.a through 14.02.B.S.c of paragraph 15.02.A.
- 2. If OWNER refuses to make payment of the full amount recommended by ENGINEER, OWNER must give CONTRACTOR immediate written notice (with a copy to ENGINEER) stating the reasons for such action and promptly pay CONTRACTOR any amount remaining after deduction of the amount so withheld. OWNER shall promptly pay CONTRACTOR the amount so withheld, or any adjustment thereto agreed to by OWNER and CONTRACTOR, when CONTRACTOR corrects to OWNER's satisfaction the reasons for such action.
- 3. If it is subsequently determined that OWNER's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by paragraph 14.01.C.l.

14.03 CONTRACTOR's Harronty of Title

A. CONTRACTOR warrants and guarantees that title to all Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not will pass to OWNER no later than the time of payment free and clear of all Lions.

14.04 Substantial Completion

A. When CONTRACTOR considers the entire Work ready for its intended use CONTRACTOR shall notify OWNER and ENGINEER in writing that the entire Work is substantially complete (except for items specifically listed by CONTRACTOR as incomplete) and request that ENGINEER issue a certificate of Substantial Completion. Promptly thereafter, OWNER, CONTRAC-TOR, and ENGINEER shall make an inspection of the Work to determine the status of completion. ENGINEER does not consider the Work substantially complete, ENGINEER will notify CONTRACTOR in writing giving the reasons therefor. If ENGINEER considers the Work substantially complete, ENGINEER will prepare and deliver to OWNER a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. OWNER shall have seven days after receipt of the tentalive certificate during which to make written objection to ENGINEER as to any provisions of the certificate or attached list. If, after considering such objections, ENGINEER concludes that the Work is not substantially complete, ENGINEER will within 14 days after submission of the tentative certificate to OWNER notify CONTRACTOR in writing, stating the reasons therefor. If, after consideration of OWNER's objections. ENGINEER considers the Work substantially complete, ENGINEER will within said 14 days execute and deliver to OWNER and CONTRACTOR a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as ENGINEER believes justified after consideration of any objections from OWNER. At the time of delivery of the tentative certificate of Substantial Completion ENGINEER will deliver to OWNER and CONTRACTOR a written recommendation as to division of responsibilities pending final payment between OWNER and CONTRACTOR with respect to security, operation, safety, and protection of the Work, maintenance, heat, utilities, insurance, and Unicss OWNER and werranties and guarantees; CONTRACTOR agree otherwise in writing and so inform ENGINEER in writing prior to ENGINEER's issuing the confilicate of Substantial Completion, ENGINEER's aforesaid recommendation will be binding: on OWNER and CONTRACTOR until linal payment.

B. OWNER shall have the right to exclude CONTRACTOR from the Site after the date of Substantial Completion, but OWNER shall allow CONTRACTOR reasonable access to complete or correct items on the tentative list.

14.05 Partial Utilization

- A. Use by OWNER at OWNER's option of any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which OWNER, ENGINEER, and CONTRACTOR agree constitutes a separately functioning and usable part of the Work that can be used by OWNER for its intended purpose without significant interference with CONTRACTOR's performance of the remainder of the Work, may be accomplished prior to Substantial Completion of all the Work subject to the following conditions.
 - 1. OWNER at any time may request CON-TRACTOR in writing to permit OWNER to use any such part of the Work which OWNER believes to be ready for its intended use and substantially complete. If CONTRACTOR agrees that such part of the Work is substantially complete, CON-TRACTOR will certify to OWNER and ENGL. NEER that such part of the Work is substantially complete and request ENGINEER to issue a certificate of Substantial Completion for that part of the Work. CONTRACTOR at any time may notify OWNER and ENGINEER in writing that CONTRACTOR considers any such part of the Work ready for its intended use and substantially complete and request ENGINEER to issue a pertificate of Substantial Completion for that part of the Work. Within a reasonable time after either such OWNER, CONTRACTOR, and regnest, ENGINEER shall make an inspection of that part of the Work to determine its status of completion. If ENGINEER does not consider that part of the Work to be substantially complete, ENGINEER will notify OWNER and CONTRACTOR in writing giving the reasons therefor. If ENGINEER considers that part of the Work to be substantially complete, the provisions of paragraph 14.04 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and speeds thereto.
 - 2. No occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of paragraph 5 10 regarding property insurance.

14.06 Final Inspection

A. Upon written notice: from CONTRACTOR that the entire Work or an agreed portion thereof is complete,

ENGINEER will promptly make a final inspection with OWNER and CONTRACTOR and will mailly CONTRACTOR in writing of all particulars in which this inspection reveals that the Work is incomplete or defective. CONTRACTOR shall immediately take such measures as are necessary to complete such Work or remedy such deliciencies.

14.07 First Payment

A. Application for Payment

- I. After CONTRACTOR has, in the opinion of ENGINEER, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guaranters, Bonds, certificates of other evidence of insurance certificates of inspection, marked-up record documents (as provided in paragraph 6.12), and other documents. CONTRACTOR may make application for final payment following the procedure for progress payments.
- 2. The final Application for Psyment shall be accompanied (except as previously delivered) by:
 (i) all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by subparagraph 5.04.B.F; (ii) consent of the surety, if any, to final payment, and (iii) complete and legally effective releases or avaivers (satisfactory to OWNER) of all Lien rights arising out of or Liens filed in connection with the Work.
- 3. In lien of the releases of Walvers of Liens specified in paragraph 14.07.A.2 and as approved by OWNER, CONTRACTOR may furnish receipts or releases in full and an allidavit of CONTRACTOR that: (f) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed, and (ii) all payrolls, material and equipment bills, and otherindebtedness connected with the Work for which. OWNER or OWNER's property might in any way be responsible have been paid or otherwise satisfied, If any Subcontractor or Supplier fails to famish such a release or receipt in full, CON-TRACTOR may furnish a Bond or other collateral salisfactory to OWNER to indepenily OWNER against any Lico.

B' Review of Application and Acceptance

Hen of the Work during construction and fined inspection, and ENGINEER's pariety of the final

Application for Payment and accompanying door mentation as required by the Contract Documents: ENCINEER is estisted that the Work has been completed and CONTRACTOR's other obligations under the Contrast Documents have been fulfilled, ENCOTEER will, within ten days after receipt of the final Application for Paymon, indicate in writing ENGINEER's recommendation of payment and present the Application for Payment to OWNER for payment. At the same line ENGINEER WIII also give written notice to OWNER and CONTRACTOR that the Work is moseptable subject to the provisions of paragraph 14.02. Otherwise, ENGINEER will return the Application for Payment to CONTRACTOR, indicating in writing the resonan for reforing to resommend final payment, in which care CON-TRACTOR shall make the reseasor corrections and resident the Application for Payment

C. Payment Becomes Due

1. Thirty days after the presentation to OWNER of the Application for Payment and accompanying documentation, the amount recommended by ENGINEER will become due and, when due, will be paid by OWNER to CONTRACTOR.

14.08. Final Completion Delayed

A. If, through no fault of CONTRACTOR, final completion of the Work is significantly delayed, and if ENGINEER so confirms, OWNER shall, upon receipt of CONTRACTOR's final Application for Payment and recommendation of ENGINEER, and without terminating the Agreement, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by OWNER for Work not fully completed or corrected is less than the retainage stipulated in the Agreement and if Bonds have been furnished as required in paragraph 5.01, the written consent of the surery to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by CONTRACTOR to ENGINEER with the Application for such payment. Such payment shall be made under the terms and conditions governing linst payment, except that it shall not constitute a waiver of Claims.

14:09 Wriver of Claims

A The making and acceptance of final payment will constitute

I a waiver of all Claims by OWNER against CONTRACTOR, except Chims arising from insettled Liens, from defective Work appearing after final inspection pursuant to paragraph

1406, from failure to contrib with the Contract Documents or the terms of any special guarantees specified therein, or from CONTRACTOR's continuing obligations under the Contract Documents; and

 a waiver of all Claims by CONTRAC-TOR against OWNER other than those previously made in writing which are still unsettled.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION

15.01 OWNER May Suspend Work

At any time and without arms. OWNER may suspend the West or any pontion thereof for a period of not mere than 30 consecutive days by notice in writing to CONTRACTOR and FNOPEER which will fix the date on which West will be recurred. CONTRACTOR shall recurre the West was the date of fixed. CONTRACTOR shall be allowed an adjustment in the Contract Price or an extension of the Contract Times, or both directly attributable to any such suspension if CONTRACTOR makes a Claim therefor as provided in paragraph 10.05.

15,02 Cause OWNER May Templicate for

- A. The accurrence of any one or more of the following events will justify termination for cause:
 - to CONTRACTOR's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule established under paragraph 2 07 as adjusted from time to time pursuant to paragraph 5.04);
 - 2. CONTRACTOR's disregard of Laws or Regulations of any public body having jurisdiction;
 - 1. CONTRACTOR'S disregard of the authority of ENGINEER; or
 - substantial way of any provisions of the Contract Documents.

B. If one or more of the events identified in paragraph 13.07 Å occur, OWNER may, after giving CONTRACTOR (and the strety, if any) seven days written notice, terminate the services of CONTRACTOR, exclude CONTRACTOR from the Site, and take possession of the Work and of all CONTRACTOR's tools, appliances, construction equipment, and machinery at the

Site, and use the same to the full extent they could be used by CONTRACTOR (without limbility to CONTRACTOR for trespass or conversion), incorporate in the Work all materials and equipment stored at the Site or for which OWNER has paid CONTRACTOR but which are stored elsewhere, and finish the Work as OWNER may deem expedient. In such case, CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. If the impaid balance of the Contract Price exceeds all claims, costs, losses, and damager (including but not limited to all fees and charges of engineers. architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by OWNER arising out of or relating to completing the Work, such excess will be paid to CONTRACTOR. If such claims, costs, losses, and damager exceed such perpaid balance, CONTRACTOR shall pay the difference to OWNER. Such claims, costs, losses, and damages incurred by OWNER will be reviewed by ENGINEER as to their reasonableness and, when so approved by ENGINEER, incorporated in a Change Order. When exercising any rights or remedies under this paragraph OWNER shall not be required to obtain the lowest price for the Work performed.

C. Where CONTRACTOR's services have been so terminated by OWNER, the termination will not affect any rights or remedies of OWNER against CONTRACTOR then existing or which may thereafter accrise. Any retention or payment of moneys due CONTRACTOR by OWNER will not release CONTRACTOR from liability

15.03 OWNER May Terminate For Convenience

- A. Upon seven days written notice to CON-TRACTOR and ENGINEER, OWNER may, without cause and without projudice to any other right or remedy of OWNER, eject to tempinate the Common. In such case, CONTRACTOR shall be paid (without duplication of any items);
 - I for completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
 - for expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses;
 - I for all claims, tosts, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispote resolution costs) incurred in settlement of

terminated contracts with Subcontractors, Suppliers, and others, and

- 4. for reasonable expenses discoly attributable to termination.
- B. CONTRACTOR shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

13.04 CONTRACTOR May Stop Worker Terminate

A. If through no set or fault of CONTRACTOR, the Work is suspended for more than 90 consecutive days by OWNER or under an order of court or other public authority, or ENGINEER fails to act on any Application for Payment within 30 days after it is submitted, or OWNER fails for 30 days to pay CONTRACTOR any sum finally determined to be due, then CONTRACTOR may, upon seven days written notice to OWNER and ENGINEER, and provided OWNER or ENGINEER do not remedy such suspension or failure within that time, terminate the Contract and recover from OWNER payment on the same terms as provided in paragraph 15.03. In lieu of terminating the Contract and without prejudice to any other right or remedy, if ENGINEER has failed to act on an Application for Payment within 30 days after it is submitted, or OWNER has failed for 30 days to pay CONTRACTOR any sum finally determined to be due, CONTRACTOR may, seven days after written notice to OWNER and ENGINEER, stop the Work until payment is minde of all such amounts due CONTRACTOR, including interest thereon. The provisions of this paragraph 15:04 are not intended to preclude CONTRACTOR from making a Claim under paragraph 10.05 for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to CONTRACTOR's stopping the Work as permitted by this paragraph,

ARTICLE 16 - DISPUTE RESOLUTION

16.01' Methods and Procedures

A. Dispute resolution methods and procedures, if any, shall be as set forth in the Supplementary Conditions. If no method and procedure has been set forth, and subject to the provisions of paragraphs 9 09 and 10 05, OWNER and CONTRACTOR may exercise such rights of remedies as either may, otherwise have under the Contract Documents or by Laws or Regulations in respect of any dispute

ARTICLE 17 - MISCELLANEOUS

1701 Giving Nouce

A. Whenever any provision of the Contract Documents requires the giving of contract notice; it will be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of

the corporation for whom it is intended, or if delivered at or sent by registered or conflied mail, postage prepaid, to the last business address known to the giver of the notice.

17.02 Computation of Times

A. When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

17.01 Cumulative Remedies

A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract Documents, and the provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply:

17.04 Survival of Obligations

A All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the Work or termination or completion of the Agreement.

17.05 Controlling Law

A. This Contract is to be governed by the law of the state in which the Project is located:

SECTION 00800

SUPPLEMENTARY CONDITIONS

TABLE OF CONTENTS

Article Number	Title
1	DEFINITIONS AND TERMINOLOGY
2	PRELIMINARY MATTERS
3	CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE
4	AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; REFERENCE POINTS
5	BONDS AND INSURANCE
6	CONTRACTOR'S RESPONSIBILITIES
8	OWNER'S RESPONSIBILITIES
9	ENGINEER'S STATUS DURING CONSTRUCTION
11	COST OF THE WORK; CASH ALLOWANCES; UNIT PRICE WORK
12	CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES
13	TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK
14	PAYMENTS TO CONTRACTOR AND COMPLETION
15	SUSPENSION OF WORK AND TERMINATION
17	MISCELLANEOUS

- 1. CONTRACTOR shall, as a minimum, purchase and maintain excess liability insurance in the umbrella form with a combined single limit of not less than \$5,000,000 per claim and in the aggregate. Evidence of such excess liability shall be delivered to OWNER in accordance with paragraph 2.05C in the form of a certificate indicating the policy numbers and limits of liability of all underlying insurance.
 - A. General Liability, Workers' Compensation, Automobile Liability and Umbrella Liability Policies will contain waivers of subrogation in favor of the Engineer and Owner.
- 2. If the aggregate limits of liability indicated in CONTRACTOR' insurance provided in accordance with paragraphs 5.03 and 5.04 are not sufficient to cover all claims for damages arising from his operations under this Contract and from any other work performed by him or if policies of insurance do not provide that the aggregate limits of liability for bodily injury and property damage apply to each contract or project separately, CONTRACTOR shall have such policies amended so that the aggregate limits of liability required by this Contract will be available to cover all claims for damages due to operations under this Contract."

SC-5.05

Delete paragraph 5.05 of the General Conditions in its entirety.

SC-5.06

Delete Paragraph 5.06 A of the General Conditions in its entirety and insert the following in its place:

۳A. CONTRACTOR shall purchase and maintain, until final payment, property insurance upon the Work at the site in an amount equal to the total bid price for the completed construction. This insurance shall include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER and ENGINEER'S consultants in the Work, shall insure against the perils of fire and extended coverage, shall include "all risk" insurance for physical loss and damage including theft, vandalism and malicious mischief, collapse and water damage, and shall include damages, losses and expenses rising out of or resulting from any insured loss or incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers, architects, attorneys and other professionals). This insurance shall be provided on the completed value form. If not covered under the "all risk" insurance or otherwise provided in these Supplementary Conditions, CONTRACTOR shall purchase and maintain similar property insurance on portions of the Work stored on and off the site or in transit when such portions of the Work are to be included in an Application for Payment." A \$20,000 deductible shall be acceptable. Any other deductible amount shall be approved in advance by the OWNER and any deductible amount shall be borne by the CONTRACTOR.

Delete paragraph 5.06B of the General Conditions in its entirety.

Delete Paragraph 5.06C of the General Conditions in its entirety and insert the following in its place:

"C. All the policies of insurance (or the certificates or other evidence thereof) required to be purchased and maintained by CONTRACTOR in accordance with paragraphs 5.06 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least thirty days' prior written notice has been given to OWNER by certified mail and will contain waiver provisions in accordance with paragraph 5.07B. The words "Endeavor to" shall be struck from the Certificate Of Insurance in the Cancellation Statement"

Delete paragraph 5.06D of the General Conditions in its entirety.

Delete paragraph 5.06E of the General Conditions in its entirety.

SC-5.07

Amend the last sentence of paragraph 5.07A of the General Conditions by striking out the words "held by OWNER as trustee or." As so amended, paragraph 5.07A remains in effect.

SC-5.08

Delete paragraph 5.08A of the General Conditions in its entirety.

Delete paragraph 5.08B of the General Conditions in its entirety.

SC-5.09

Delete paragraph 5.09A of the General Conditions in its entirety and insert the following in its place:

"A. If OWNER has any objection to the coverage afforded by or other provisions of the insurance required to be purchased and maintained by CONTRACTOR in accordance with this Article 5 on the basis of its not complying with the Contract Documents, OWNER will notify CONTRACTOR in writing thereof within thirty days of the date of delivery of such certificates to OWNER in accordance with paragraph 2.05C. CONTRACTOR will provide such additional information in respect of insurance provided by him as OWNER may reasonably request."

ARTICLE 6. CONTRACTOR'S RESPONSIBILITIES

SC-6.01

Delete paragraph 6.01B of the General Conditions in its entirety and replace with the following:

"B. At the site of the Work the CONTRACTOR shall employ a full-time construction superintendent or foreman who shall have full authority to act for the CONTRACTOR. It is understood that such representative shall be acceptable to the ENGINEER and shall be one who will be continued in the capacity for the particular job involved unless the representative ceases to be on the CONTRACTOR's payroll. If at any time during the Work the representative is deemed by the ENGINEER to be no longer acceptable, the representative shall be promptly replaced by the CONTRACTOR. All communications to the superintendent shall be as binding as if given to the CONTRACTOR."

SC-6.04

Add the following paragraph after paragraph 6.04A.2 of the General Conditions:

"B. The CONTRACTOR's resident superintendent shall attend monthly progress meetings at the site of the work with the ENGINEER and others as appropriate to review schedule status and such other pertinent subjects as may be listed on the agenda by the ENGINEER."

SC-6.17

In paragraph 6.17 E.1 of the General Conditions, delete the word "timely" from the first line.

SC-6.20

Delete paragraph 6.20A of the General Conditions in its entirety and replace with the following:

۴A To the fullest extent permitted by law, the CONTRACTOR shall indemnify and hold harmless the OWNER, the ENGINEER, ENGINEER's consultants, and their agents and employees from and against all claims, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from the 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) including loss of use resulting therefrom, but only to the extent caused in whole or in part by 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 apply to any such claims, damages, losses and expenses which arise and/or are incurred by any person or entity either during the performance of the Work and/or after completion of construction. Nothing in this paragraph shall be construed to negate, abridge, or reduce other rights or obligations of indemnity or contribution which would otherwise exist as to a party or person indemnified hereunder. CONTRACTOR hereby assumes the responsibility and liability for injury to or death of any and all persons, including the CONTRACTOR's employees, and for any and all damage to property caused by, resulting from, or arising out of any act, omission or neglect on the part of the CONTRACTOR, or of any Subcontractor or of anyone directly or indirectly employed by any of them or of anyone for whose acts, any of them may be liable."

Delete paragraph 6.20C of the General Conditions in its entirety.

ARTICLE 8. OWNER'S RESPONSIBILITIES

SC-8.06

Delete paragraph 8.06A of the General Conditions in its entirety.

ARTICLE 9. ENGINEER'S STATUS DURING CONSTRUCTION

SC-9.01

Add a new paragraph 9.01B after paragraph 9.01A of the General Conditions, which is to read as follows:

"B. Nothing contained in the Contract Documents shall be construed to create a contractual relationship of any kind (1) between the ENGINEER and CONTRACTOR, (2) between the OWNER and a Subcontractor or Subcontractors, or (3) between any person or entities other than the OWNER and CONTRACTOR. The ENGINEER shall, however, be entitled to performance and enforcement of obligations under the CONTRACT DOCUMENTS intended to facilitate performance of the ENGINEER'S duties."

ARTICLE 11. COST OF THE WORK; CASH ALLOWANCES; UNIT PRICE WORK

Delete Article 11 of the General Conditions in its entirety and replace with the following:

- "A. The unit price of an item of Unit Price work shall be subject to reevaluation and adjustment under the following conditions:
 - (1) If the total extended bid price [Estimated Quantity times the Bid Unit Price] of a particular item of Unit Price Work amounts to 5 percent or more of the Original Contract Price and the variation in the quantity of the particular item of Unit Price Work performed by CONTRACTOR differs by more than 15 percent from the estimated quantity of such item indicated in the Agreement; and
 - (2) If there is no corresponding adjustment with respect to any other item of work; and
 - (3) If CONTRACTOR believes that CONTRACTOR has incurred additional expense as a result thereof, CONTRACTOR may make a claim for an adjustment in the Contract Price in accordance with Article 11 if the parties are unable to agree as to the effect of any such variations in the quantity of Unit Price Work performed. If OWNER believes that the quantity variation entitles OWNER to an adjustment in the unit price, OWNER shall be entitled to an adjustment in the unit price in an amount determined by the ENGINEER. ENGINEER shall not be liable in

connection with any determination relating to adjustments which is rendered in good faith."

ARTICLE 12. CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

SC-12.06

Add the following new paragraphs after paragraph 12.06 of the General Conditions:

"12.07 Liquidated Damages:

- A. If the CONTRACTOR shall neglect, fail or refuse to complete the work within the time herein specified, or any proper extension thereof granted by the OWNER, then the CONTRACTOR does hereby agree, as a part consideration for the awarding of this Contract, to pay to the OWNER the amount specified in the Contract, not as a penalty but as liquidated damages for such breach of contract as hereinafter set forth, for each and every calendar day that the Contract shall be in default after the time stipulated in the Contract for completing the work. Such damages may be retained from time to time by the OWNER from progress payments or any amounts owing to the CONTRACTOR, or otherwise collected.
- B. The said amount is fixed and agreed upon by and between the CONTRACTOR and the OWNER because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the OWNER would in such event sustain, and said amount is agreed to be the amount of damages which the OWNER would sustain and said amount shall be retained from time to time by the OWNER from current periodical estimates.
- C. It is further agreed that time is of the essence of each and every portion of this Contract and of the specifications wherein as definite and certain length of times if fixed for the performance of any act whatsoever; and where under the Contract an additional time is allowed for the completion of any work, the new time limit fixed by such extension shall be of the essence of this Contract. Provided that the CONTRACTOR shall not be charged with liquidated damages of any excess cost when the OWNER determines that the CONTRACTOR is without fault and the CONTRACTOR's reasons for the time extension are acceptable to the OWNER; Provided, further, that the CONTRACTOR shall not be charged with liquidated damages or any excess cost when the delay in completion of the work is due:
 - 1) to any preference, priority or allocation order duly issued by the Government;
 - 2) to unforeseeable cause beyond the control and without the fault or negligence of the CONTRACTOR, including, but not restricted to, acts of God, or of the public enemy, acts of the OWNER, acts of another CONTRACTOR in the performance of a contract with the OWNER, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and severe weather; and

- 3) to any delays of subcontractors or suppliers occasioned by any of the causes specified in subsections C(1) and C(2) above;
- D. Provided, further, that the CONTRACTOR shall, within ten (10) days from the beginning of such delay, unless the OWNER shall grant a further period of time prior to the date of final settlement of the Contract, notify the OWNER, in writing, of the causes of the delay, who shall ascertain the facts and extent of the delay and notify the CONTRACTOR within a reasonable time of its decision in the matter."

ARTICLE 13. TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

SC-13.07

Delete paragraph 13.07A of the General Conditions and insert the following in its place:

"A. If within one year after the date of Substantial Completion or such longer period of time as may be prescribed by Laws or Regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any work is found to be defective, CONTRACTOR shall promptly, without cost to OWNER and in accordance with OWNER's written instructions: (i) correct such defective work, or, if it has been rejected by OWNER, remove it from the site and replace it with work that is not defective, and (ii) satisfactorily correct or remove and replace any damage to other work or the work of others therefrom. If CONTRACTOR does not begin the repairs within ten (10) days of receipt of written notification and promptly comply with the terms of OWNER's written instructions, or in an emergency where delay would cause serious risk, loss or damage, OWNER may have the defective work corrected or the rejected work removed and replaced, and all claims, costs, losses and damages caused by or resulting from such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by CONTRACTOR."

SC-13.09

Revise paragraph 13.09A of the General Conditions

A. Delete the word "seven" and replace it with the word "ten" so that it reads "after ten days written notice to CONTRACTOR."

ARTICLE 14. PAYMENTS TO CONTRACTOR AND COMPLETION

SC-14.02

Delete paragraph 14.02A.3 and insert the following in its place:

"3. Retainage with respect to progress payments will be five percent or, if stipulated, the maximum allowed by law."

Add Paragraph 4. to read as follows:

"4. The CONTRACTOR shall submit Weekly Payroll Records Report and Statement of Compliance verifying compliance with the Minimum Prevailing Wage Law, MGL ch. 149, Sections 26-27H. These Statements of Compliance shall be submitted as a condition of payment for work performed during the period the reports apply."

SC-14.03

Delete paragraph 14.03A in its entirety and insert the following in its place:

"A. CONTRACTOR warrants and guarantees that title to all work, material and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to OWNER no later than at the time of Application for Payment free and clear of all liens. CONTRACTOR shall provide written transfer of title and a certified paid invoice provided by the supplier."

ARTICLE 15. SUSPENSION OF WORK AND TERMINATION

SC-15.02

Add a new paragraph immediately after paragraph 15.02 A.4 of the General Conditions which is to read as follows:

"5. If the Work to be done under this Contract shall be abandoned, or if this Contract or any part thereof shall be sublet, without the previous written consent of OWNER, or if the contract or any claim thereunder shall be assigned by CONTRACTOR otherwise than as herein specified;"

ARTICLE 17. MISCELLANEOUS

SC-17.06, 17.07, 17.08, 17.09

Add the following new paragraphs after paragraph 17.05 of the General Conditions:

"17.06 Assignment:

A. The CONTRACTOR shall not assign the whole or any part of this Contract or any moneys due or to become due hereunder until thirty (30) days prior notice in writing has been given to the OWNER of the intention to assign, which notice shall state the identity and address of the prospective assignee. No assignment shall be made without the OWNER's prior written consent. Such consent shall not be unreasonably withheld. In case the CONTRACTOR assigns all or any part of the moneys due or to become due under this Contract, the instrument of assignment shall contain a clause substantially to the effect that it is agreed that the right of the assignee in and to any moneys due or to become due to the

CONTRACTOR shall be subject to prior claims of all persons, firms and corporations of services rendered or materials supplied for the performance of the work called for in this Contract."

17.07 Liability

It is understood and agreed that members of the OWNER or the ENGINEER or any agent or employees of the OWNER signing this Agreement shall not be personally liable hereunder for any action incurred in connection with this Agreement.

17.08 State Statutes and Regulations

See Section 00830 for further modifications of the General Conditions due to state statutes and regulations.

17.09 Severability

If any provision of this Agreement shall be invalid or unenforceable to any extent or in any application, then the remainder of this Agreement and of such terms and conditions, except to such extent or in such application, shall not be affected thereby, and each and every term and condition of this Agreement shall be valid and enforced to the fullest extent and in the broadest application permitted by law."

END OF SECTION

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SECTION 00830 STATE STATUTES AND REGULATIONS COMMONWEALTH OF MASSACHUSETTS

A. REVISIONS TO GENERAL CONDITIONS

- 1. Definitions
- 2. Subsurface Conditions Found Different
- 3. Subcontracting
- 4. Permits
- 5. Contractor Records
- 6. Massachusetts Sales and Use Tax
- 7. Clarifications and Interpretations
- 8. Change of Contract Price
- 9. Payments
- 10. Suspension of Work and Termination
- 11. Labor Classification and Minimum Wage Rates

B. OTHER REGULATORY REQUIREMENTS

- 1. Working Hours
- 2. DEP Community Sound Level Criteria

ATTACHMENT A - Wage Rates

ATTACHMENT B

Excerpts from Chapter 149 and Chapter 30 of the Massachusetts General Law

ATTACHMENT C – (not used on this project)

Special Provisions for Minority/Women Business Enterprises and the Commonwealth of Massachusetts Supplemental Equal Employment Opportunity Anti-Discrimination and Affirmative Action Program.

ATTACHMENT D

Change Orders

A. REVISIONS TO GENERAL CONDITIONS:

1. Definitions

The term "AWARDING AUTHORITY," as used herein, shall be considered to be synonymous with the term "OWNER," described in definition 1.01 A.30.

Delete definition 1.01 A.43 entitled "Substantial Completion" in the General Conditions in its entirety and insert the following in its place:

"Substantial Completion shall be interpreted in accordance with Massachusetts General Law Chapter 30, Section 39G or 39K as appropriate."

2. Subsurface Conditions Found Different

Add the following sentence to the end of paragraph 4.03A of the General Conditions:

"...to do so. Adjustments resulting from subsurface or latent physical conditions will be in accordance with Massachusetts General Law Chapter 30, Section 39N."

3. Subcontracting

Add the following language at the end of paragraph 6.06F of the General Conditions:

"Except as required otherwise by Massachusetts General Law Chapter 149, Section 44F, for Work governed by Chapter 149, sections 44A through 44H.

4. Permits

Delete paragraph 6.08A of the General Conditions in its entirety and insert the following in its place:

"A. The AWARDING AUTHORITY shall be responsible for identifying and obtaining all federal, state, and local permits required by the nature and location of construction, including but not limited to railroad permits, building construction permits, and permits for street and highway cuts and openings. CONTRACTOR shall be responsible for obtaining all permits required of his equipment, work force, or particular operations (such as blasting) in the performance of the Work and not otherwise specified to be obtained by the AWARDING AUTHORITY. These permit fees shall be paid by CONTRACTOR. CONTRACTOR shall pay all governmental charges and inspection fees necessary for the prosecution of the Work, which are applicable at the time of opening of bids, or, if there are no Bids, on the Effective Date of the Agreement."

5. Contractor Records

Add a new paragraph immediately after paragraph 6.09C of the General Conditions, which is to read as follows:

"D. The CONTRACTOR shall comply with all applicable provisions Chapter 30, Section 39R of the Massachusetts General Laws regarding, CONTRACTOR's records."

Massachusetts Sales and Use Tax

Add the following paragraph after paragraph 6.10A of the General Conditions:

"B. The materials and supplies to be used by the CONTRACTOR in the Work of this Contract are exempt from the Sales and Use Tax of the Commonwealth of Massachusetts. The AWARDING AUTHORITY tax exemption certificate number will be furnished to the CONTRACTOR."

7. Clarifications and Interpretations

Add the following language at the end of paragraph 9.04A of the General Conditions:

"The ENGINEER'S interpretation will be made in accordance with the requirements of Massachusetts General Law Chapter 30, Section 39P."

8. Change of Contract Price

Delete paragraphs 11.01, 11.02 and 12.01 of the General Conditions, having to do with Change of Contract Price. Changes in contract price will be governed by the section called "Change Orders," in Attachment D, Section 00830 and Article 11 in the Supplementary Conditions.

9. Payments

Delete paragraph 14.02B.1 of the General Conditions in its entirety and insert the following in its place:

"1. Progress Payments will be made in accordance with Massachusetts General Law Chapter 30, Section 39G, or 39K, as applicable."

Add the following new paragraph following paragraph 14.02C.1 of the General Conditions:

"2. The CONTRACTOR shall make payments to Subcontractors in accordance with the requirements of Massachusetts General Law Chapter 30, Section 39F."

Delete paragraph 14.07B of the General Conditions in its entirety and insert the following in its place:

"1. If, on the basis of the ENGINEER's observation of the Work during construction and final inspection and, upon the ENGINEER's review of the final Application for Payment and accompanying documentation, the ENGINEER is satisfied that the Work has been completed and that the CONTRACTOR's other obligations under the Contract Documents have been fulfilled, the ENGINEER will indicate in writing his recommendation of payment and present the Application to the AWARDING AUTHORITY for payment. Thereupon the ENGINEER will give written notice to the AWARDING AUTHORITY and the CONTRACTOR that the Work is acceptable subject to the provisions of paragraph 14.15. Otherwise, the ENGINEER will return the Application to CONTRACTOR, indicating in writing the reasons for refusing to recommend final payment. In such case the CONTRACTOR shall make the necessary corrections and resubmit the Application. If the Application and accompanying documentation are appropriate as to form and substance, the AWARDING AUTHORITY shall in accordance with the applicable Massachusetts General Law, pay the CONTRACTOR the amount recommended by the ENGINEER."

10. Suspension of Work and Termination

Delete paragraph 15.01A of the General Conditions in its entirety and insert the following in its place:

"A. The AWARDING AUTHORITY may order, at any time and without cause, the CONTRACTOR to suspend or delay the Work in accordance with Massachusetts General Law Chapter 30, Section 39-0."

11. Labor Classifications and Minimum Wage Rates

Add the following paragraphs under the heading "Wage Rates" after paragraph 17.10 of the Supplementary Conditions:

"17.11 Wage Rates

A. Minimum wage rates as determined by the Commissioner of the Department of Labor and Industries under the provisions of Massachusetts General Laws Chapter 149, Sections 26-27D apply to this project. A copy of the wage schedule is included in Attachment A of Section 00830. If, after the Notice of Award, it becomes necessary to employ any person in a trade or occupation not classified in the wage determinations, such person shall be paid at not less than such rates as shall be determined by the Commissioner. Such approved minimum rate shall be retroactive to the time of the initial employment of such person in such trade or occupation. The CONTRACTOR shall notify the AWARDING AUTHORITY of its intention to employ persons in trades or occupations not classified in the wage determinations as soon as possible in order to allow sufficient time for the

AWARDING AUTHORITY to obtain approved rates for such trades or occupations.

- B. The schedule of wages referred to above are minimum rates only, and the AWARDING AUTHORITY will not consider any claims for additional compensation made by CONTRACTOR because of payment by the CONTRACTOR of any wage rate in excess of the applicable rate contained in the Contract. All construction associated with this Contract will be governed by Heavy and Highway Rates.
- C. The said schedule of wages shall continue to be the minimum rates to be paid during the life of this Agreement and a legible copy of said schedule shall be kept posted in a conspicuous place at the site of the Work.
- D. CONTRACTOR and subcontractors shall submit a copy of weekly payroll records to the AWARDING AUTHORITY and the AWARDING AUTHORITY shall retain the records or a minimum of three years."

B. OTHER REGULATORY REQUIREMENTS:

Working Hours

No laborer, workman, mechanic, foreman, or inspector, working within the Commonwealth, in the employ of the CONTRACTOR, subcontractor, or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be required or permitted to work more than eight hours in any one day or more than forty-eight hours in any one week, or more than six days in any one week, except in cases of emergency.

3. DEP Community Sound Level Criteria

The Community Sound Level Criteria as established by the Commonwealth of Massachusetts' Department of Environmental Protection (DEP) must be conformed to prior to the AWARDING AUTHORITY's acceptance of the structure. The following sound level criteria must be met at the construction site:

- A. The increase in the broad band noise level shall not be in excess of ten (10) dB(A) above ambient at the station boundary. The ambient level is defined as the A-weighted noise level that is exceeded ninety (90) percent of the time measured during the period in question.
- B. The primary noise source(s) shall not produce a puretone condition. Puretone is any given octave band center frequency that exceeds the two adjacent center frequencies by three (3) or more decibels.

END OF SECTION

SUPERSEDING CHANGES TO GENERAL AND SUPPLEMENTARY CONDITIONS

I. GENERAL CONDITIONS

2.06A - insert at end: Said conference shall be scheduled and arranged by the Contractor.

4.01B - delete

4.06G - delete

5.07B - delete

6.17E - restore the word "timely" in the first line. Delete the word "only" from the 5th line. Where "only" has been deleted, insert "to determine their general conformance with the contract documents, in accordance with good and accepted engineering practices, and".

8.02A - delete "to whom contractor makes no reasonable objection,".

9.02A - Insert, after "Work" in the 6th line, "While construction is active at the project, said visits and inspections will take place at least once per week."

12.06 - delete subparts A and B, and replace with the following: "The Contractor hereby agrees that the Contractor shall have no claim for damages of any kind against the Owner or the Engineer on account of any delay in the commencement of the Work and/or any delay in, or suspension of any portion of the Work, whether such delay is caused by the Owner, the Engineer, or otherwise. The Contractor acknowledges that the Contractor's sole remedy for any such delay and/or suspension will be an extension of time as provided in these general conditions.

No claims shall be allowed on account of the failure of the Engineer to furnish Drawings, specifications or instructions or to return Shop Drawings or Samples until the expiration of the applicable time period referenced in Mass. Gen. L. c. 30, §39P, and not then unless such claim be reasonable.

No extension of time shall be granted because of seasonable or abnormal variations in temperature, humidity or precipitation, which conditions shall be wholly at the risk of the Contract, whether occurring within the time originally scheduled for completion, or within any period of extension granted. There shall be no increase in the Contract Sum on account of any additional costs or operations or conditions resulting therefrom.

14.02C - change "Ten" to "Twenty-One"

14.07A(3) - delete the first three lines through the word "Owner,". In the third line, after Contractor, substitute "shall" for "may". In the fourth line, after the word "full" insert "on behalf of both Contractor and all of its Subcontractors,".

14.09A(1) - delete

15.03B - add after "termination" ", with respect to this project or any other project of the Contractor."

Add "15.03C. If this Contract is terminated by Owner with or without cause, and regardless of whether said termination is rightful or wrongful, in no event shall the Contractor be paid a sum which, together with prior payments to Contractor, exceeds the sum payable to Contractor under the Agreement (Section 00520), as adjusted by any agreed change orders.

II. SUPPLEMENTARY CONDITIONS

Article V - Bonds and Insurance

Employer's liability coverage must be \$2 million per accident, \$2 million disease limits, and \$2 million per employee disease limits.

General liability insurance limits must be \$5 million aggregate, \$2 million dollars products/completed operations aggregate; \$2 million personal injury and advertising; and \$2 million per occurrence.

The contractual liability insurance coverage must have limits corresponding to the foregoing.

At 5.04A.6, the following changes should be made to paragraph 1 of the indemnity clause: four lines from the bottom, the parenthesis should be removed from the word "CAUSED" and the word "CAUSED" should be changed to lower-case (caused). Also, in the last line of said clause, insert the word "for" after the word "anyone."

At SC-5.04C 1 - insert the following sentence at the end: "The Contractor's excess liability insurance coverage must follow form with its underlying liability coverages."

SC-6.20A - insert the word "defend" after the word "shall" in the first line.

SC-14.02A.3 - insert the following sentence at the end: "Retainage for the entire project will be withheld until substantial completion of the entire project, at which time retainage shall be accounted for, subject to all of the other terms and conditions of payment at the time of substantial completion.

Add the following Article SC-18.

SC-18 Arbitration

- 18.1 Controversies and Claims Subject to Arbitration. Any Claim arising out of or related to the Contract, or the breach thereof, except claims relating to aesthetic effect, shall be settled by arbitration, subject to the provisions of Subparagraph 18.7. Arbitration will be conducted in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association and judgment upon the award rendered by the Arbitrator or Arbitrators may be entered in any Court having jurisdiction thereof. In any such arbitration in which the amount stated in the demand is \$100,000 or less, a single arbitrator shall be appointed in accordance with the procedures set forth in the American Arbitration Association Construction Industry Arbitration Rules. In any such arbitration in which the amount stated in the demand is in excess of \$100,000, a panel of three arbitrators shall be appointed in accordance with the procedures set forth in the American Arbitration Association Construction Industry Arbitration Rules. The parties may agree to use any arbitration service. In the absence of such agreement, the American Arbitration Association shall be utilized.
- Rules For Arbitration. If the neutral arbitrator is appointed by the American Arbitration Association, the said Association shall administer the arbitration and its Construction Industry Arbitration Rules shall govern all aspects of the proceeding including the enforcement of any award. If the neutral arbitrator is not appointed by the American Arbitration Association, then the panel of arbitrators shall act as the administrator of the arbitration but the Construction Industry Arbitration Rules of the Association shall nonetheless govern all aspects of the proceeding, including the enforcement of any award. The arbitration panel shall have all the powers and duties conferred on the Association pursuant to said rules.

In addition, the following rules shall govern the selection of arbitrators and the proceedings:

- 18.2.1 Neither party may appoint as arbitrator an employee or an owner of that party, nor the parent, spouse or child of an employee or owner of that party.
- 18.2.2 After the neutral arbitrator has been appointed, neither party may engage in exparte communication with the arbitrator appointed by that party.
- 18.2.3 Contract Performance During Arbitration. During arbitration proceedings, the Owner and Contractor shall otherwise continue their performances hereunder.
- 18.3 When a written decision of the Engineer states that the decision is final, any demand for arbitration of the matter covered by such decision must be made within two months after substantial completion of the project, as determined by the Engineer in accordance with the provisions hereof. The failure to demand arbitration within said two month period will result in the Engineer's decision becoming final and binding upon the Owner and the Contractor.
- A demand for arbitration shall be made with the time limits specified in Subparagraph 18.3, and in no event shall be made after the date when the institution of legal or equitable proceedings based on such Claim would be barred by the applicable statute of limitations.

- 18.5 Claims and Timely Assertion of Claims. A party who files 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. When a party fails to include a Claim through oversight, inadvertence or excusable neglect, or when a Claim has matured or been acquired subsequently, the arbitrator or arbitrators may permit amendment.
- 18.6 Judgment on Final Award. The award rendered by the arbitrator or arbitrators shall be final, and the judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.
- Notwithstanding any provision contained in this Paragraph 18 or elsewhere in the Contract Documents, the Owner reserves the following rights in connection with Claims and disputes between the Owner and the Contractor:
 - the right to institute legal action against the Contractor in any court of competent jurisdiction in lieu of demanding arbitration pursuant to this Paragraph 18, in which case the dispute or disputes which are the subject of such action shall be decided by such court, and not by arbitration;
 - the right to obtain from any court of competent jurisdiction a stay of any arbitration instituted by the Contractor, provided that the application for such stay is made before the appointment of the neutral arbitrator in such arbitration, in which case the dispute or disputes which are the subject of such arbitration shall be decided by such court, and not by arbitration;
 - .3 the right to require the Contractor to join as a party in any arbitration between the Owner and the Architect relating to the Project, in which case the Contractor agrees to be bound by the decision of the arbitrator or arbitrators in such arbitration.

In case the Owner elects to proceed in accordance with 18.7.1 or 18.7.2 above, the word "litigation" shall be deemed to replace the word "arbitration" wherever the latter word appears in the Contract Documents.

SC-19 MBE and WBE participation

The Contractor shall comply with the provisions of G.L. c. 7, §40N, and any associated regulations effective during the time of the project, relative to the participation of minority and woman-owned businesses in connection with the project. At present, the current participation goals are 7.4% MBE and 4% WBE.

216855.1

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To: dlanzillotti@town.arlington.ma.us

Date: 06/07/2013 11:00 AM

Subject: Prevailing wage schedule for Wage Request number :20130606-047

To view and print Weekly Payroll & Compliance Forms Click on www.mass.gov/dols/pw

PLEASE NOTE: The attached Prevailing Wage Schedule is valid for 90 days. An Awarding Authority should re-request an up to date Prevailing Wage Schedule if it has NOT opened bids or selected a contractor within 90 days of the issuance date of the attached prevailing wage schedule.

* NEW - Effective 3/18/10, prevailing wage schedules will include apprentice wages (expressed as a dollar figure) including the required benefits pursuant to the prevailing wage law. Apprentice wages shall be no less than the published amounts. Contractors that provide health and welfare, pension or supplemental unemployment benefits to apprentices, may deduct the amount of those benefit contributions from the published wages. For further details please see DOS Opinion Letter PW 2010-03-03.16.10(Dated March 18,2010) at www.mass.gov/dols.

*For MULTI-YEAR projects bid on or after 8/8/08, Awarding Authorities must request an Annual Update to this Prevailing Wage Schedule each year for the duration of the project, no later than two weeks before the anniversary date of the execution of the general contract. Annual updates are not required for projects that last LESS THAN ONE YEAR.

*For CM AT RISK projects (bid pursuant to GL c.149A), Awarding Authorities should request a Prevailing Wage Schedule NOT sooner than 90 days before the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid opening date for the FIRST "fast-track" Trade Contractor scope of work (e.g., site work, etc.). For MULTI-YEAR CM AT RISK projects bid on or after 8/8/08, Awarding Authorities also must request an Annual Update to this prevailing wage schedule each year for the duration of the project.

Request Prevailing Wage Rates online at: www.mass.gov/dols.

THIS IS A SYSTEM-GENERATED EMAIL. PLEASE DO NOT REPLY TO THIS EMAIL. TO CONTACT DLS REGARDING PREVAILING WAGE MATTERS CALL 617.626.6953

APPROVAL/DENIAL COMMENTS

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Attachments:

File: 20130606-047.pdf Size: 157k Content Type: application/pdf



Lt. Governor

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 JOANNE F. GOLDSTEIN HEATHER E. ROWE

Awarding Authority:

Town of Arlington

Contract Number:

13-12

City/Town: ARLINGTON

Description of Work:

Arlington High School Culvert Rehabilitation - Provide all labor, materials, equipment and supervision necessary

for Culvert Rehabilitation as per specifications,

Job Location:

869 Mass Ave

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.
- Awarding authorities 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.
- 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. Once a contractor has been selected by the awarding authority, the wage schedule shall be made a part of the contract for that project. The wage schedule must be posted in a conspicuous place at the work site during the life of the project in accordance with M.G.L. c. 149, § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project regardless of 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 Division of Apprentice Training (DAT). Apprentices must keep his/her apprentice identification card on his/her person during all work hours on the project. If an apprentice rate is listed on the prevailing wage schedule for the trade in which an apprentice is registered with the DAT, the apprentice may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. If an apprentice rate is not listed on the prevailing wage schedule for the trade in which an apprentice is registered with the DAT, the apprentice 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. 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 directly to the awarding authority 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 criminal penalties.

Wage Request Number: 20130606-047 Issue Date: 06/07/2013

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/01/2012	\$31.55	\$8.91	\$8.00	\$0.00	\$48.46
(3 AXLE) DRIVER - EQUIPMENT teamsters joint council no. 10 zone a	12/01/2012	\$31.62	\$8.91	\$8.00	\$0.00	\$48.53
(4 & 5 AXLE) DRIVER - EQUIPMENT teamsters joint council no. 10 zone a	12/01/2012	\$31.74	\$8.91	\$8.00	\$0.00	\$48.65
ADS/SUBMERSIBLE PILOT	08/01/2012	\$82.32	\$9.80	\$17.67	\$0.00	\$109.79
PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2013	\$85.47	\$9.80	\$17.67	\$0.00	\$112.94
	08/01/2014	\$88.62	\$9.80	\$17.67	\$0.00	\$116.09
	08/01/2015	\$91.77	\$9.80	\$17.67	\$0.00	\$119.24
AIR TRACK OPERATOR	06/01/2013	\$33.80	\$7.10	\$12.45	\$0.00	\$53,35
LABORERS - ZONE I	12/01/2013	\$34.55	\$7.10	\$12.45	\$0.00	\$54.10
	06/01/2014	\$35.30	\$7.10	\$12.45	\$0.00	\$54.85
	12/01/2014	\$36.05	\$7.10	\$12.45	\$0.00	\$55.60
	06/01/2015	\$36.80	\$7.10	\$12.45	\$0.00	\$56.35
	12/01/2015	\$37.55	\$7.10	\$12.45	\$0.00	\$57.10
	06/01/2016	\$38.30	\$7.10	\$12.45	\$0.00	\$57.85
	12/01/2016	\$39.30	\$7.10	\$12.45	\$0.00	\$58.85
For apprentice rates see "Apprentice- LABORER"		7				4.0.00
ASBESTOS REMOVER - PIPE / MECH, EQUIPT.	06/01/2013	\$29.88	\$10.40	\$5.95	\$0.00	\$46.23
HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	12/01/2013	\$30.68	\$10.40	\$5.95	\$0.00	\$47.03
	06/01/2014	\$31.58	\$10.40	\$5.95	\$0.00	\$47.93
	12/01/2014	\$32.48	\$10.40	\$5.95	\$0.00	\$48.83
	06/01/2015	\$33.43	\$10.40	\$5.95	\$0.00	\$49.78
	12/01/2015	\$34.38	\$10.40	\$5.95	\$0.00	\$50.73
ASPHALT RAKER	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
LABORERS - ZONE 1	12/01/2013	\$34,05	\$7.10	\$12.45	\$0.00	\$53.60
	06/01/2014	\$34.80	\$7.10	\$12.45	\$0.00	\$54.35
	12/01/2014	\$35.55	\$7.10	\$12.45	\$0.00	\$55.10
	06/01/2015	\$36.30	\$7.10	\$12.45	\$0.00	\$55.85
	12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56.60
	06/01/2016	\$37.80	\$7.10	\$12.45	\$0.00	\$57.35
	12/01/2016	\$38.80	\$7.10	\$12.45	\$0.00	\$58.35
For apprentice rates see "Apprentice- LABORER"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE	06/01/2013	\$40.34	\$10.00	\$13.55	\$0.00	\$63.89
OPERATING ENGINEERS LOCAL 4 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2013	\$41.12	\$10.00	\$13.55	\$0.00	\$64.67
BACKHOE/FRONT-END LOADER OPERATING ENGINEERS LOCAL 4	06/01/2013	\$40.34	\$10.00	\$13.55	\$0.00	\$63.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2013	\$41.12	\$10.00	\$13.55	\$0.00	\$64.67

Issue Date: 06/07/2013 **Wage Request Number:** 20130606-047 **Page 2 of 34**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BARCO-TYPE JUMPING TAMPER	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
LABORERS - ZONE 1	12/01/2013	\$34.05	\$7.10	\$12.45	\$0.00	\$53.60
	06/01/2014	\$34.80	\$7.10	\$12.45	\$0.00	\$54.35
	12/01/2014	\$35.55	\$7.10	\$12.45	\$0.00	\$55.10
	06/01/2015	\$36.30	\$7.10	\$12.45	\$0.00	\$55,85
	12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56.60
	06/01/2016	\$37.80	\$7.10	\$12.45	\$0.00	\$57.35
	12/01/2016	\$38.80	\$7.10	\$12,45	\$0.00	\$58.35
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER	06/01/2013	\$33.80	\$7.10	\$12.45	\$0.00	\$53.35
LABORERS - ZONE I	12/01/2013	\$34.55	\$7.10	\$12.45	\$0.00	\$54.10
•	06/01/2014	\$35.30	\$7.10	\$12.45	\$0.00	\$54.85
	12/01/2014	\$36.05	\$7.10	\$12.45	\$0.00	\$55.60
	06/01/2015	\$36.80	\$7.10	\$12.45	\$0.00	\$56.35
	12/01/2015	\$37.55	\$7.10	\$12.45	\$0.00	\$57.10
	06/01/2016	\$38.30	\$7.10	\$12.45	\$0.00	\$57.85
	12/01/2016	\$39.30	\$7.10	\$12.45	\$0.00	\$58.85
For apprentice rates see "Apprentice- LABORER"						
BOILER MAKER BOILERMAKERS LOCAL 29	01/01/2010	\$37.70	\$6.97	\$11.18	\$0.00	\$55.85

	ffective tep p	Date - ercent	01/01/2010	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	(i5		\$24.51	\$6.97	\$11,18	\$0.00	\$42.66	
2	2 6	55		\$24.51	\$6.97	\$11.18	\$0.00	\$42.66	
3	3 7	0		\$26.39	\$6.97	\$11.18	\$0.00	\$44.54	
4	1 7	'5		\$28.28	\$6.97	\$11.18	\$0.00	\$46.43	
5	5 8	80		\$30.16	\$6.97	\$11.18	\$0.00	\$48.31	
6	5 8	5		\$32.05	\$6.97	\$11.18	\$0.00	\$50,20	
7	7 9	0		\$33.93	\$6.97	\$11.18	\$0.00	\$52.08	
8	3 9	5		\$35.82	\$6.97	\$11.18	\$0.00	\$53.97	
N constitution of the cons	lotes:		oranne constanto francisco establica establica establica constanto fra	AND			emander verteert vandens en	Terrorens (minimum) (minim	
A	pprenti	e to Joi	rneyworker Ratio:1:5	non norman extensione someonia reconnecto semendire e	monology Pomological concorning	emotocoe socionico socionico	errorrorra veneziano monante can	THE STREET, SOURCE STREET, STR	
		AL MA	SONRY (INCL, MASONF	CY 02/01/2013	3 \$47.4	1 \$10.18	\$17.83	\$0.00	\$75.4
RPROOFIN 4 <i>yers local</i>	,	ON)		08/01/2013	\$48.3	1 \$10.18	\$17.90	\$0.00	\$76.3
		ŕ		02/01/2014	\$48.87	7 \$10.18	\$17.90	\$0.00	\$76.9
				08/01/2014	\$49.7	7 \$10.18	\$17.97	\$0.00	\$77.9
				02/01/2015	\$50.33	\$10.18	\$17.97	\$0.00	\$78.4
				08/01/2015	\$51,23	\$10.18	\$18.04	\$0.00	\$79.4
				02/01/2016	5 \$51.80	\$10.18	\$18.04	\$0.00	\$80.0
				08/01/2016	5 \$52.70	\$10.18	\$18.12	\$0.00	\$81.0
				02/01/2013	7 \$53,27	7 \$10.18	\$18.12	\$0.00	\$81.5

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Pension

	Step	ve Date - 02/01/2013 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	50	\$23.71	\$10.18	\$17.83	\$0.00	\$51.72	
	2	60	\$28.45	\$10.18	\$17.83	\$0.00	\$56.46	
	3	70	\$33.19	\$10.18	\$17.83	\$0.00	\$61.20	
	4	80	\$37.93	\$10.18	\$17.83	\$0.00	\$65.94	
	5	90	\$42.67	\$10.18	\$17.83	\$0.00	\$70.68	
	Effecti	ve Date - 08/01/2013				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$24.16	\$10.18	\$17.90	\$0.00	\$52.24	
	2	60	\$28.99	\$10.18	\$17.90	\$0.00	\$57.07	
	3	70	\$33.82	\$10.18	\$17.90	\$0.00	\$61.90	
÷	4	80	\$38.65	\$10.18	\$17.90	\$0.00	\$66.73	
	5	90	\$43.48	\$10.18	\$17.90	\$0.00	\$71.56	
	Notes:	s waterween surgements speakerships speakership speakership speakership speakership substitute susuakership shipsakerships	18. Bill-Halland destablission statements basement immerator between	NAME AND ADDRESS OF THE PARTY O	 treformal venuoloded subscheen 	Expression sembles represent the	COUNTY SELECTION SE	
	1						***************************************	
	Appre	ntice to Journeyworker Ratio:1:5	ik Mackelolood uslameeleen, suureleepeele ohtevateelee peoperteelee teevessissis v	more commercia economia	NECESTRAL ANDRESSAY PROMPTING	TOTAL COMMON CONTRACTOR NAME	Colors Villabethir generalism semiconomi	
		R/SCRAPER	06/01/2013	3 \$39.9	6 \$10.00	\$13.55	\$0.00	\$63.51
ERATING ENGLI For apprentice:		Apprentice- OPERATING ENGINEERS"	12/01/2013	3 \$40.7	4 \$10.00	\$13.55	\$0.00	\$64.29
		INNING BOTTOM MAN	06/01/2013	3 \$34.2	0 \$7.10	\$12.60	\$0.00	\$53.90
BORERS - FOUN	VDATION .	AND MARINE	12/01/2013	3 \$34.9		\$12,60	\$0.00	\$54.65
			06/01/2014			\$12.60	\$0.00	\$55.40
			12/01/2014	\$36.4	5 \$7.10	\$12.60	\$0.00	\$56.15
			06/01/2015	\$37.2	0 \$7.10	\$12.60	\$0.00	\$56.90
			12/01/2015	\$37.9	5 \$7.10	\$12.60	\$0.00	\$57.65
			06/01/2016	\$38.7	0 \$7.10	\$12.60	\$0.00	\$58.40
For apprentice	rates see "	Apprentice- LABORER"	12/01/2016	\$39.7	0 \$7.10	\$12.60	\$0.00	\$59.40
JSSON & UI	NDERP	NNING LABORER	06/01/2013	3 \$33.0	5 \$7.10	\$12.60	\$0.00	\$52.75
BORERS - FOUN	DAHUN.	THE WARRING	12/01/2013	\$33.8	0 \$7.10	\$12.60	\$0.00	\$53.50
			06/01/2014	\$34.5	5 \$7.10	\$12.60	\$0,00	\$54.25
			12/01/2014	\$35.3	0 \$7.10	\$12.60	\$0.00	\$55.00
			06/01/2015	\$36.0	5 \$7.10	\$12.60	\$0.00	\$55.75
		•	12/01/2015	\$36.8	0 \$7.10	\$12.60	\$0.00	\$56.50
			06/01/2016	\$37.5	5 \$7.10	\$12.60	\$0.00	\$57.25
			00/01/2010	, 457.5	Ψ7.10	422100	40.00	407,22

Classification

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING TOP MAN	06/01/2013	\$33.05	\$7.10	\$12.60	\$0.00	\$52.75
LABORERS - FOUNDATION AND MARINE	12/01/2013	\$33.80	\$7 .10	\$12.60	\$0.00	\$53,50
	06/01/2014	\$34.55	\$7.10	\$12.60	\$0.00	\$54.25
	12/01/2014	\$35.30	\$7.10	\$12.60	\$0.00	\$55.00
	06/01/2015	\$36.05	\$7 .10	\$12.60	\$0.00	\$55.75
	12/01/2015	\$36.80	\$7.10	\$12.60	\$0.00	\$56.50
	06/01/2016	\$37.55	\$7.10	\$12.60	\$0.00	\$57.25
	12/01/2016	\$38.55	\$7.10	\$12.60	\$0.00	\$58.25
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
LABORERS - ZONE 1	12/01/2013	\$34.05	\$7.10	\$12.45	\$0.00	\$53.60
	06/01/2014	\$34.80	\$7.10	\$12.45	\$0.00	\$54.35
	12/01/2014	\$35.55	\$7.10	\$12.45	\$0.00	\$55.10
	06/01/2015	\$36,30	\$7.10	\$12.45	\$0.00	\$55.85
	12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56.60
	06/01/2016	\$37.80	\$7.10	\$12.45	\$0.00	\$57.35
	12/01/2016	\$38.80	\$7.10	\$12.45	\$0.00	\$58.35
For apprentice rates see "Apprentice- LABORER"						
CARPENTER	03/01/2013	\$33.92	\$9.80	\$15.61	\$0.00	\$59.33
CARPENTERS -ZONE 2 (Eastern Massachusetts)	09/01/2013	\$34.53	\$9.80	\$15.61	\$0.00	\$59.94
	03/01/2014	\$35.13	\$9.80	\$15.61	\$0.00	\$60.54
	09/01/2014	\$35,90	\$9.80	\$15.61	\$0.00	\$61.31
	03/01/2015	\$36.67	\$9.80	\$15.61	\$0.00	\$62.08

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Apprentice - CARPENTER - Zone 2 Eastern MA

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	Effecti	ve Date - 03/01/2013				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$16.96	\$9.80	\$1.57	\$0.00	\$28.33	
	2	60	\$20.35	\$9.80	\$1.57	\$0.00	\$31.72	
	3	70	\$23.74	\$9.80	\$10.90	\$0.00	\$44.44	
	4	75	\$25.44	\$9.80	\$10.90	\$0.00	\$46.14	
	5	80	\$27.14	\$9.80	\$12.47	\$0.00	\$49.41	
	6	80	\$27.14	\$9.80	\$12.47	\$0.00	\$49.41	,
	7	90	\$30.53	\$9.80	\$14.04	\$0.00	\$54.37	
	8	90	\$30,53	\$9.80	\$14.04	\$0.00	\$54.37	
		ve Date - 09/01/2013				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$17.27	\$9.80	\$1.57	\$0.00	\$28.64	
	2	60	\$20.72	\$9.80	\$1.57	\$0.00	\$32.09	
	3	70	\$24.17	\$9.80	\$10.90	\$0.00	\$44.87	
	4	75	\$25.90	\$9.80	\$10.90	\$0.00	\$46,60	
	5	80	\$27.62	\$9.80	\$12.47	\$0.00	\$49.89	
	6	80	\$27.62	\$9.80	\$12.47	\$0.00	\$49.89	
	7	90	\$31.08	\$9.80	\$14.04	\$0.00	\$54.92	
	8	90	\$31.08	\$9.80	\$14.04	\$0.00.	\$54.92	
	Notes:	S TRANSPORT CONTROL TRANSPORT SECURITIES SECURITIES ACCUSATES CONTROL	STATES ALCOHOL COSTON MATERIAL DALCHAR CONTROLS	e-verse specific recognis es	ances sectors andered	-mainer manatale introces econ	NOTE OFFICENS SERVICES STATES	
	-					v	***************************************	
	Appre	ntice to Journeyworker Ratio:1:5	minus rumana minuser errores recessos discustor d	econolisti economica, econolista ana	france superscoo superscool e	eventure variables, transition and		
		PLASTERING	02/01/2013	\$42.55	\$10.65	\$18.61	\$1.30	\$73.11
CKLAYERS LO	AL 3 (BC	ISTON)	08/01/2013	\$43.32	\$10.65	\$18.61	\$1.30	\$73.88
			02/01/2014	\$43.75	\$10.65	\$18.61	\$1.30	\$74.31
			08/01/2014	\$44.50	\$10.65	\$18.61	\$1.30	\$75.06
			02/01/2015	\$44.93	\$10.65	\$18.61	\$1.30	\$75.49
			08/01/2015	\$45.68	\$10.65	\$18.61	\$1.30	\$76.24
			02/01/2016	\$46.13	\$10.65	\$18.61	\$1.30	\$76.69
			08/01/2016	\$46.88	\$10.65	\$18.61	\$1.30	\$77.44
			02/01/2017	\$47.33	\$10.65	\$18.61	\$1.30	\$77.89

	Step	ve Date - percent	02/01/2013	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	50		\$21,28	\$10.65	\$12.11	\$1.30	\$45.34	
	2	60		\$25.53	\$10.65	\$13.61	\$1.30	\$51.09	
	3	65		\$27.66	\$10.65	\$14.61	\$1.30	\$54.22	
	4	70		\$29.79	\$10.65	\$15.61	\$1.30	\$57.35	
	5	75		\$31.91	\$10.65	\$16.61	\$1.30	\$60,47	
	6	80		\$34.04	\$10.65	\$17.61	\$1.30	\$63.60	
	7	90		\$38.30	\$10.65	\$18.61	\$1.30	\$68.86	
	Effecti Step	ve Date -	08/01/2013	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	50		\$21.66	\$10.65	\$12.11	\$1.30	\$45.72	
	2	60		\$25.99	\$10.65	\$13.61	\$1.30	\$51.55	
	3	65		\$28.16	\$10.65	\$14.61	\$1.30	\$54.72	
	4	70		\$30.32	\$10.65	\$15.61	\$1.30	\$57.88	
	5	75		\$32,49	\$10.65	\$16.61	\$1.30	\$61.05	
	6	80		\$34.66	\$10.65	\$17.61	\$1.30	\$64.22	
	7	90		\$38.99	\$10.65	\$18.61	\$1.30	\$69,55	
	Notes:	Application retentions and	are 500 hrs. All other steps a	re 1,000 hrs.	opidagia Walleddin Walleddin Jo	SOUTH CEREOL CHEESE 3		and the controlled and controlled solutions of	
IN SAW (unicy worker Marketto	06/01/2013	3 \$33.30	\$7.10	\$12.45	\$0.00	\$52.85
ORERS - ZONI				12/01/2013			\$12.45	\$0.00	\$53.60
				06/01/201			\$12.45	\$0.00	\$54.35
				12/01/2014			\$12.45 \$12.45	\$0.00	\$55.10
				06/01/201			\$12.45	\$0.00	\$55.85
				12/01/201:			\$12.45	\$0.00	\$56.60
				06/01/2010			\$12.45	\$0.00	\$57.35
				12/01/2010			\$12.45	\$0.00	\$58.35
For apprentice	rates see 1	Apprentice- I	ABORER"		7	,,,,_,			
			ETS/HEADING MACHINE	S 06/01/2013	3 \$41.34	\$10.00	\$13.55	\$0.00	\$64.89
RATING ENG				12/01/2013	\$42.12	\$10.00	\$13.55	\$0.00	\$65.67
			OPERATING ENGINEERS"			· · · · · · · · · · · · · · · · · · ·		A 0.05	
MPRESSOI ATING ENG				06/01/2013	,		\$13.55	\$0.00	\$51.74
		Annreptice- (OPERATING ENGINEERS"	12/01/2013	3 \$28.74	\$10.00	\$13.55	\$0.00	\$52.29
For apprentice	rates see "	. ippromise (

	Effective Dat Step perce		Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	;
	1 50		\$22.51	\$7.80	\$0.00	\$0.00	\$30.31	
	2 55		\$24.76	\$7.80	\$3.52	\$0.00	\$36.08	
	3 60		\$27.01	\$7.80	\$3.84	\$0.00	\$38.65	
	4 65		\$29.26	\$7.80	\$4.16	\$0.00	\$41.22	
	5 70		\$31.51	\$7.80	\$13.68	\$0.00	\$52.99	
	6 75		\$33.76	\$7.80	\$14.00	\$0.00	\$55,56	
	7 80	·	\$36.01	\$7.80	\$14.32	\$0.00	\$58.13	
	8 90		\$40.51	\$7.80	\$14.96	\$0.00	\$63,27	
	Notes:	elitaria inaciativo assistante terrasporte inclutante gina terra trapiqui, i	open en der en eine en verschaft hat bestellied eine de van auch au.			Secretary desirable existings, wa	1	
	Steps	are 750 hrs.	anning managan, managan sakakana bahakana dapahabah sa				and	
		Journeyworker Ratio:1:1	A CONTROL CONT	Andrews	MONOR CONSISTS STATES	Committee Commit	THE PERSON ASSESSED VISIONIA	
EMO: ADZE iborers - zoni			12/01/2011	\$31.80	\$7.10	\$12.45	\$0.00	\$51.35
For apprentice	rates see "Apprent	ice- LABORER"						
EMO: BACK BORERS - ZONI		R/HAMMER OPERATOR	12/01/2011	\$32.80	\$7.10	\$12.45	\$0.00	\$52.35
For apprentice	rates see "Apprenti	ice- LABORER"						
EMO: BURN BORERS - ZON			12/01/2011	\$32,55	\$7.10	\$12.45	\$0.00	\$52.10
For apprentice	rates see "Apprenti	ice- LABORER"						
EMO: CONC BORERS - ZON	RETE CUTTE 3 1	R/SAWYER	12/01/2011	\$32.80	\$7.10	\$12.45	\$0.00	\$52.35
	rates see "Apprenti			rationalian indicator and an area proj	is MANA digital and a plates in the property of the second second second second second second second second se		al Maria Malaka a Maria ka Malaka Maria a para ka Marigila paraka pejapen begar paya a begar paya b	
EMO: JACKI iborers - zoni	HAMMER OPE	ERATOR	12/01/2011	\$32.55	\$7.10	\$12.45	\$0.00	\$52.10
For apprentice	rates see "Apprenti	ice- LABORER"						
EMO: WREC BORERS - ZONI	KING LABOR 1	ER	12/01/2011	\$31.80	\$7.10	\$12.45	\$0.00	\$51.35
For apprentice	rates see "Apprenti	ice- LABORER"						
	L DRILL MAC NEERS LOCAL 4	HINE OPERATOR	06/01/2013			\$13.55	\$0.00	\$63.51
For apprentice	rates see "Apprenti	ice- OPERATING ENGINEERS"	12/01/2013	\$40.74	\$10.00	\$13.55	\$0.00	\$64.29
VER		MARTHUMAN I MARAN MA	08/01/2012	\$54.88	\$9.80	\$17.67	\$0.00	\$82.35
E DRIVER LOC	AL 56 (ZONE I)		08/01/2013			\$17.67	\$0.00	\$84.45
			08/01/2014		\$9.80	\$17.67	\$0.00	\$86.5
			08/01/2015		\$9.80	\$17.67	\$0.00	\$88.65
VER TENDE			08/01/2012			\$17.67	\$0.00	\$82.35
E DRIVER LOC	'AL 56 (ZONE 1)		08/01/2013			\$17.67	\$0.00	\$84.45
			08/01/2014		\$9.80	\$17.67	\$0.00	\$86.55
			08/01/2015		\$9.80	\$17.67	\$0.00	\$88.65

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DIVER TENDER (EFFLUENT)	08/01/2012	\$58.80	\$9.80	\$17.67	\$0.00	\$86.27
PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2013	\$61.05	\$9.80	\$17.67	\$0.00	\$88.52
•	08/01/2014	\$63.30	\$9.80	\$17.67	\$0.00	\$90.77
	08/01/2015	\$65.55	\$9.80	\$17.67	\$0.00	\$93.02
DIVER/SLURRY (EFFLUENT)	08/01/2012	\$82.32	\$9.80	\$17.67	\$0.00	\$109.79
PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2013	\$85.47	\$9.80	\$17.67	\$0.00	\$112.94
	08/01/2014	\$88.62	\$9.80	\$17.67	\$0.00	\$116.09
	08/01/2015	\$91.77	\$9.80	\$17.67	\$0.00	\$119.24
DRAWBRIDGE OPERATOR (Construction)	03/01/2013	\$43.52	\$13.00	\$14.16	\$0.00	\$70.68
ELECTRICIANS LOCAL 103	09/01/2013	\$44.20	\$13.00	\$14.18	\$0.00	\$71.38
	03/01/2014	\$44.92	\$13.00	\$14.20	\$0.00	\$72.12
	09/01/2014	\$45.60	\$13.00	\$14.22	\$0.00	\$72.82
	03/01/2015	\$46.32	\$13.00	\$14.24	\$0.00	\$73.56
	09/01/2015	\$47.27	\$13.00	\$14.27	\$0.00	\$74.54
	03/01/2016	\$48.23	\$13.00	\$14.30	\$0.00	\$75.53
For apprentice rates see "Apprentice-ELECTRICIAN"	1000-01 1 1 1000-11 1 1000-01 1 1000 1 1000 1 1000 1 1000 1 1000 1 1000 1 1000 1 1000 1 1000 1 1000 1 1000 1 1	(con a plicate Healtown Health) de plantatour de la	-4			Hibrardinianianianianiani
ELECTRICIAN ELECTRICIANS LOCAL 103	03/01/2013	\$43.52	\$13.00	\$14.16	\$0.00	\$70.68
PLECTACIAN DOCAL TOS	09/01/2013	\$44.20	\$13.00	\$14.18	\$0.00	\$71.38
	03/01/2014	\$44.92	\$13.00	\$14.20	\$0.00	\$72.12
	09/01/2014	\$45.60	\$13.00	\$14.22	\$0.00	\$72.82
	03/01/2015	\$46.32	\$13.00	\$14.24	\$0.00	\$73.56
	09/01/2015	\$47.27	\$13.00	\$14.27	\$0.00	\$74.54
	03/01/2016	\$48.23	\$13.00	\$14.30	\$0.00	\$75.53

Issue Date: 06/07/2013 Wage Request Number: 20130606-047 Page 9 of 34

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Step	ive Date - 03/01/2013 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.41	\$13.00	\$0.52	\$0.00	\$30.93
2	40	\$17.41	\$13.00	\$0.52	\$0.00	\$30.93
3	45	\$19.58	\$13.00	\$10.53	\$0.00	\$43.11
ļ	45	\$19.58	\$13.00	\$10.53	\$0.00	\$43.11
5	50	\$21.76	\$13.00	\$10.85	\$0,00	\$45.61
5	55	\$23.94	\$13.00	\$11.19	\$0.00	\$48.13
7	60	\$26.11	\$13.00	\$11.51	\$0.00	\$50.62
8	65	\$28.29	\$13.00	\$11.85	\$0.00	\$53.14
)	70	\$30.46	\$13.00	\$12.17	\$0.00	\$55.63
10	75	\$32.64	\$13.00	\$12.51	\$0.00	\$58.15
tep	ive Date - 09/01/2013 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
i	40	\$17.68	\$13.00	\$0.53	\$0.00	\$31.21
2	40	\$17.68	\$13.00	\$0.53	\$0.00	\$31.21
		\$19.89	\$13.00	\$10.54	\$0.00	042.42
i	45	\$17.07	4-0.00	W10.54	40.00	\$43.43
	45 45	\$19.89 \$19.89	\$13.00	\$10.54	\$0.00	
ļ						\$43.43 \$43.43 \$45.96
3 4 5	45	\$19.89	\$13.00	\$10.54	\$0.00	\$43.43 \$45.96
1 5	45 50	\$19.89 \$22.10	\$13.00 \$13.00	\$10.54 \$10.86	\$0.00 \$0.00	\$43.43 \$45.96 \$48.51
ļ 5	45 50 55	\$19.89 \$22.10 \$24.31	\$13.00 \$13.00 \$13.00	\$10.54 \$10.86 \$11.20	\$0.00 \$0.00 \$0.00	\$43.43
1 5 5	45 50 55 60	\$19.89 \$22.10 \$24.31 \$26.52	\$13.00 \$13.00 \$13.00 \$13.00	\$10.54 \$10.86 \$11.20 \$11.53	\$0.00 \$0.00 \$0.00 \$0.00	\$43.43 \$45.96 \$48.51 \$51.05

Issue Date: 06/07/2013

ELEVATOR CONSTRUCTOR

ELEVATOR CONSTRUCTORS LOCAL 4

Wage Request Number:

Apprentice to Journeyworker Ratio:2:3***

20130606-047

01/01/2012

\$52.45

\$8.78

\$6.96

\$0.00

\$68.19

Apprentice - ELEVATOR CONSTRUCTOR - Local 4

	Appre Effect	ive Date - 01/01/2012				0 1 11		
	Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	:
	1	50	\$26.23	\$8.78	\$0.00	\$0.00	\$35.01	
	2	55	\$28.85	\$8.78	\$6.96	\$0.00	\$44.59	ı
	3	65	\$34.09	\$8.78	\$6.96	\$0.00	\$49.83	
	4	70	\$36.72	\$8.78	\$6.96	\$0.00	\$52.46	: i
	5	80	\$41.96	\$8.78	\$6.96	\$0.00	\$57.70	
	Notes:	es resolver america, serviciam resolver american sometima montrole american american american	ONNER CHEMICA MEMBROY ANNAHAM CHEMICAGA MANAHAM I	care, months notarn s	andre educate specific	-co-froberine ferroration communication and		
	trees conne	Steps 1-2 are 6 mos.; Steps 3-5 are 1			and the second second second	arribbers (arrivosti arrista an saa		
		entice to Journeyworker Ratio:1:1						
ELEVATOR CONST		UCTOR HELPER 8S <i>LOCAL 4</i>	01/01/2012	\$38.59	\$8.78	\$6.96	\$0.00	\$54.33
ENCE & GUA aborers - zone		IIL ERECTOR	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
ADUNEAS - ZUNE	. 1		12/01/2013	\$34.05	\$7.10	\$12.45	\$0.00	\$53.60
			06/01/2014	\$34.80	\$7.10	\$12.45	\$0.00	\$54.35
			12/01/2014	\$35.55	\$7.10	\$12.45	\$0.00	\$55.10
			06/01/2015	\$36.30	\$7.10	\$12.45	\$0.00	\$55.85
			12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56.60
			06/01/2016	\$37.80	\$7.10	\$12,45	\$0.00	\$57.35
			12/01/2016	\$38.80	\$7.10	\$12.45	\$0.00	\$58.35
		"Apprentice- LABORER"						
IELD ENG.IN <i>PERATING ENGII</i>		RSON-BLDG,SITE,HVY/HWY	05/01/2013	\$38.50	\$10.00	\$13.02	\$0.00	\$61.52
		50 12 1	11/01/2013	\$39.26	\$10.00	\$13.02	\$0.00	\$62.28
17	4	* OPER TRUE ENCORPERS	05/01/2014	\$40.03	\$10.00	\$13.02	\$0.00	\$63.05
		"Apprentice- OPERATING ENGINEERS"			-	*	*	
PERATING ENGL		HIEF-BLDG,SITE,HVY/HWY OCAL 4	05/01/2013	\$39.91	\$10.00	\$13.02	\$0.00	\$62.93
			11/01/2013	\$40.68	\$10.00	\$13.02	\$0.00	\$63.70
For apprentice	rates see '	"Apprentice- OPERATING ENGINEERS"	05/01/2014	\$41.45	\$10.00	\$13.02	\$0.00	\$64.47
		SON-BLDG,SITE,HVY/HWY	05/01/2013	\$21.17	\$10.00	\$13.02	\$0.00	\$44.19
PERATING ENGII	NEERS LO	OCAL 4	11/01/2013	\$21.63	\$10.00	\$13.02	\$0.00	\$44.65
			05/01/2014	\$22.08	\$10.00	\$13.02	\$0.00	\$45.10
For apprentice:	rates see '	'Apprentice- OPERATING ENGINEERS"	03/01/2014	\$22.00		Ψ15,02	ψ0.00	\$45.10
IRE ALARM I		LER	03/01/2013	\$43.52	\$13.00	\$14.16	\$0.00	\$70.68
LECTRICIANS LO	CAL 103		09/01/2013	\$44.20	\$13.00	\$14.18	\$0.00	\$71.38
			03/01/2014	\$44.92	\$13.00	\$14.20	\$0.00	\$72.12
			09/01/2014	\$45.60	\$13.00	\$14.22	\$0.00	\$72,82
			03/01/2015	\$46.32	\$13.00	\$14.24	\$0.00	\$73.56
			09/01/2015	\$47.27	\$13.00	\$14.27	\$0.00	\$74.54
			03/01/2016	\$48.23	\$13.00	\$14.30	\$0.00	\$75.53
		'Apprentice- ELECTRICIAN"	55, 51, 2010	حصدت، ب	415,00			Ψ, υ, υ, υ

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM REPAIR / MAINTENANCE	03/01/2013	\$32.64	\$13.00	\$12.51	\$0.00	\$58.15
/ COMMISSIONING ELECTRICIANS LOCAL 103	09/01/2013	\$33.15	\$13.00	\$12.52	\$0.00	\$58,67
2001010	03/01/2014	\$33.69	\$13.00	\$12.54	\$0.00	\$59.23
	09/01/2014	\$34.20	\$13.00	\$12.56	\$0.00	\$59.76
	03/01/2015	\$34.74	\$13.00	\$12.57	\$0.00	\$60.31
	09/01/2015	\$35.45	\$13.00	\$12.59	\$0.00	\$61.04
	03/01/2016	\$36.17	\$13.00	\$12.62	\$0.00	\$61.79
For apprentice rates see "Apprentice-TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER)	06/01/2013	\$33.73	\$10.00	\$13.55	\$0.00	\$57.28
OPERATING ENGINEERS LOCAL 4	12/01/2013	\$34.39	\$10.00	\$13.55	\$0.00	\$57.94
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER	06/01/2013	\$20.50	\$7.10	\$12.45	\$0.00	\$40.05
LABORERS - ZONE 1	12/01/2013	\$20.50	\$7.10	\$12,45	\$0.00	\$40.05
	06/01/2014	\$20.50	\$7.10	\$12.45	\$0.00	\$40.05
	12/01/2014	\$20.50	\$7.10	\$12.45	\$0.00	\$40.05
	06/01/2015	\$20.50	\$7.10	\$12.45	\$0.00	\$40.05
	12/01/2015	\$20.50	\$7.10	\$12.45	\$0.00	\$40.05
	06/01/2016	\$20,50	\$7.10	\$12.45	\$0.00	\$40.05
	12/01/2016	\$20.50	\$7.10	\$12,45	\$0.00	\$40.05
For apprentice rates see "Apprentice- LABORER"						*
FLOORCOVERER	03/01/2013	\$38.61	\$9.80	\$16.71	\$0.00	\$65.12
FLOORCOVERERS LOCAL 2168 ZONE I	09/01/2013	\$38.61	\$9.80	\$16.71	\$0.00	\$65.12
	03/01/2014	\$38.61	\$9.80	\$16.71	\$0.00	\$65.12

Issue Date: 06/07/2013 Wage Request Number: 20130606-047 Page 12 of 34

Total Rate

GLAZIERS LOCAL 35 (ZONE 2)

SYSTEMS)

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR

01/01/2013

\$35.51

\$7.80

\$14.60

\$0.00

\$57.91

Classification Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Step	tive Date - 01/01/2013 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.76	\$7.80	\$0.00	\$0.00	\$25.56
2	55	\$19.53	\$7.80	\$3.25	\$0.00	\$30.58
3	60	\$21.31	\$7.80	\$3.54	\$0.00	\$32.65
4	65	\$23.08	\$7.80	\$3.84	\$0.00	\$34.72
5	70	\$24.86	\$7.80	\$12.83	\$0.00	\$45.49
6	75	\$26.63	\$7.80	\$13.13	\$0.00	\$47.56
7	80	\$28.41	\$7.80	\$13.42	\$0.00	\$49.63
8	90	\$31.96	\$7.80	\$14.01	\$0.00	\$53.77
Notes	manus automorphis manuscripts are producing productions specially specially see the special sp	teri, sävalaisi Velssiever realiteren ärekikika allestalain selekikika sikalaini.	lenterando ameninato alamentos o		managan and an analysis of the secondary	British Associates adaptament missioning
An Consideration	Steps are 750 hrs,				•	sensori Cr
Appro	entice to Journeyworker Ratio	»:1:1	and any property of the second	етипа сматина помень з	manners consum analysis com	and Colors and State States Company
	R/CRANES/GRADALLS	06/01/2013	\$40.34	\$10.00	\$13.55	\$0.00 \$63.89
ING ENGINEERS L	OCAL 4	12/01/2013	\$41.12	\$10.00	\$13,55	\$0.00 \$64.67

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Total Rate

Pension

Eff	ective Date -	06/01/2013				Supplemental		
Ste	p percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	55		\$22.19	\$10.00	\$0.00	\$0.00	\$32.19	
2	60		\$24.20	\$10.00	\$13.55	\$0.00	\$47.75	
3	65		\$26.22	\$10.00	\$13.55	\$0.00	\$49.77	
4	70		\$28.24	\$10.00	\$13.55	\$0.00	\$51.79	
5	75		\$30.26	\$10.00	\$13.55	\$0.00	\$53.81	
6	80		\$32,27	\$10.00	\$13.55	\$0.00	\$55.82	
7	85		\$34.29	\$10.00	\$13.55	\$0.00	\$57.84	
8	90		\$36.31	\$10.00	\$13.55	\$0.00	\$59.86	
Eff	ective Date -	12/01/2013				Supplemental		
Ste	p percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	55		\$22.62	\$10.00	\$0.00	\$0.00	\$32.62	
2	60		\$24.67	\$10.00	\$13.55	\$0.00	\$48.22	
3	65		\$26.73	\$10.00	\$13.55	\$0.00	\$50.28	
4	70		\$28.78	\$10.00	\$13.55	\$0.00	\$52.33	
5	75		\$30.84	\$10.00	\$13.55	\$0.00	\$54.39	
6	80		\$32.90	\$10.00	\$13.55	\$0.00	\$56.45	
7	85		\$34.95	\$10.00	\$13.55	\$0.00	\$58.50	
8	90		\$37.01	\$10.00	\$13.55	\$0.00	\$60.56	
No	tes:	- बारभावक कार्यक्षमा अभावकाम व्यवसाय कार्यसाम वास्तावमा व	CONTROL SECTION CONTROL SECTION CONTROL CONTROL	CALLER MINISTER MINISTER	enthern monage integral	ANNUALS REPRESENT STREETS OF	Action metators metators coverage	

Ap	prentice to J	ourneyworker Ratio:1:6	notices, recommended entremental recommended exercisment of	occorron moreocor moreocor	sometime oraniform militarium e	enerodor molecumo loccessor esch	tonicae communicae emicroscer	
C (DUCTWO)			02/01/201:	3 \$42.32	\$9.82	\$18.24	\$2.11	\$72.4
		- - SHEET METAL WORKER"						
C (ELECTRIC		OLS)	03/01/201:	3 \$43.52	\$13.00	\$14.16	\$0.00	\$70.6
RICIANS LOCAL	103		09/01/2013	3 \$44.20	\$13,00	\$14,18	\$0.00	\$71.3
			03/01/201	4 \$44.92	\$13.00	\$14.20	\$0.00	\$72.1
			09/01/2014	4 \$45.60	\$13.00	\$14.22	\$0.00	\$72.8
			03/01/201:	5 \$46.32	\$13.00	\$14.24	\$0.00	\$73.5
			09/01/201:	5 \$47.27	\$13.00	\$14.27	\$0.00	\$74.5
			03/01/2010	5 \$48.23	\$13.00	\$14.30	\$0.00	\$75.5
		- ELECTRICIAN"						
C (TESTING A METAL WORKEI		NCING - AIR)	02/01/2013	3 \$42.32	\$9.82	\$18.24	\$2.11	\$72.4
r apprentice rates	see "Apprentice	- SHEET METAL WORKER"						
C (TESTING A		NCING -WATER)	03/01/201:	3 \$49.34	\$8.75	\$14.39	\$0.00	\$72.4
r apprentice rates	see "Apprentice	- PIPEFITTER" or "PLUMBER/PIP	EFITTER"					
C MECHANIC			03/01/201:	3 \$49.34	\$8.75	\$14.39	\$0.00	\$72.4

PIPEFITTERS LOCAL 537

Classification		Effect	ive Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates se	ee "Apprentice- PIPEFITTER" or "PLI	JMBER/PIPEFITTER"						
HYDRAULIC DRIL	LS	06/0	1/2013	\$33.80	\$7.10	\$12.45	\$0.00	\$53.35
LABORERS - ZONE I		12/0	1/2013	\$34.55	\$7.10	\$12.45	\$0.00	\$54.10
		06/0	1/2014	\$35.30	\$7.10	\$12.45	\$0.00	\$54.85
		12/0	1/2014	\$36,05	\$7.10	\$12.45	\$0.00	\$55.60
		06/0	1/2015	\$36.80	\$7.10	\$12.45	\$0.00	\$56.35
		12/0	1/2015	\$37.55	\$7.10	\$12.45	\$0.00	\$57.10
		06/0	1/2016	\$38.30	\$7.10	\$12.45	\$0.00	\$57.85
		12/0	1/2016	\$39.30	\$7.10	\$12.45	\$0.00	\$58.85
For apprentice rates so	e "Apprentice- LABORER"							
INSULATOR (PIPES	,	09/0	1/2012	\$41.46	\$10.65	\$11.50	\$0.00	\$63.61
HEAT & FROST INSULAT	ORS LOCAL 6 (BOSTON)	09/0	1/2013	\$43.06	\$10.65	\$11.50	\$0.00	\$65.21
		09/0	1/2014	\$45.06	\$10.65	\$11.50	\$0.00	\$67.21
		ATOR (Pipes & Tanks) - Loca	l 6 Boston	!				
	ctive Date - 09/01/2012			4.4	.	Supplementa		
Step	percent	Apprentice Base V	Wage He	alth	Pension	Unemploymen	t Total Rate	
1	50	\$20.73	\$10).65	\$8.60	\$0.00) \$39.98	;
2	60	\$24,88	\$10).65	\$9.18	\$0.00	\$44.71	<u>.</u>
3	70	\$29.02	\$10).65	\$9.76	\$0.00	\$49.43	,
4	80	\$33.17	\$10).65	\$10.34	\$0.00	\$54.16	5

Notes:
Steps are 1 year

Apprentice Base Wage Health

\$10.65

\$10.65

\$10.65

\$10.65

\$21.53

\$25.84

\$30.14

\$34.45

Supplemental

\$0.00

\$0.00

\$0.00

\$0.00

Total Rate

\$40.78

\$45.67

\$50.55

\$55,44

Unemployment

Pension

\$8.60

\$9.18

\$9.76

\$10.34

 Apprentice to Journeyworker Ratio:1:4

 IRONWORKER/WELDER
 03/16/2013
 \$40.23
 \$7.70
 \$18.35
 \$0.00
 \$66.28

 IRONWORKERS LOCAL 7 (BOSTON AREA)
 \$66.28
 \$66.28

09/01/2013

Effective Date -

percent

50

60

70

80

Step

1

2

3

4

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Supplemental Unemployment

		ve Date - percent	ONWORKER - Local 7 Bos 03/16/2013	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	60		\$24.14	\$7.70	\$18.35	\$0.00	\$50.19	
	2	70	•	\$28.16	\$ 7.70	\$18.35	\$0.00	\$54.21	
	3	75		\$30.17	\$ 7.70	\$18.35	\$0.00	\$56.22	•
	4	80		\$32.18	\$7.70	\$18.35	\$0.00	\$58.23	
	5	85		\$34.20	\$7.70	\$18.35	\$0.00	\$60.25	
	6	90		\$36.21	\$7.70	\$18.35	\$0.00	\$62.26	
	Notes:		ral 1:6; Ornamental 1:4	contact acontine vicinities remained encounter transform.	oonsone maanaa maasaa	ennema sementare nationale.	CONTRACT ASSOCIATE AMARIANA, MARI	Annual an	
***************************************	Appre		ırneyworker Ratio:**	Outs Kiristinus IRIA-Palita elistrones 1000010000 (000101001 e	EXXEM MELENX Mewers &	enome contribute facility	distant sections sections and	TERM STRUCTURE DOCCURATE CERTIFICACE	
ACKHAMN ABORERS - ZO		VING BRE	EAKER OPERATOR	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
MBORERS - ZU	IVE I			12/01/2013	\$34.05	\$7.10	\$12.45	\$0.00	\$53.60
				06/01/2014	\$34.80	\$7.10	\$12.45	\$0.00	\$54.35
				12/01/2014	\$35.55	\$7.10	\$12.45	\$0.00	\$55.10
				06/01/2015	\$36.30	\$7.10	\$12,45	\$0.00	\$55.85
				12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56.60
				06/01/2016	\$37.80	\$7.10	\$12.45	\$0.00	\$57.35
For apprenti	ice rates see '	'Apprentice- L	ABORER"	12/01/2016	\$38.80	\$7.10	\$12,45	\$0.00	\$58.35
ABORER				06/01/2013	\$33.05	\$7.10	\$12.45	\$0.00	\$52.60
ABORERS - ZO	NE I			12/01/2013	\$33.80	\$7.10	\$12.45	\$0.00	\$53.35
				06/01/2014	\$34,55	\$7.10	\$12.45	\$0.00	\$54.10
				12/01/2014	\$35.30	\$7.10	\$12,45	\$0.00	\$54.85
				06/01/2015	\$36.05	\$7.10	\$12.45	\$0.00	\$55.60
				12/01/2015	\$36.80	\$7.10	\$12.45	\$0.00	\$56.35
				06/01/2016	\$37.55	\$7.10	\$12,45	\$0.00	\$57.10
				12/01/2016	\$38.55	\$7.10	\$12.45	\$0.00	\$58.10

Pension

			ABORER - Zone 1						
	Effecti Step	ive Date - percent	06/01/2013	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1,	60		\$19.83	\$ 7.10	\$12.45	\$0.00	\$39.38	
	2	70		\$23.14	\$7.10	\$12.45	\$0.00	\$42.69	
	3	80		\$26.44	\$ 7,10	\$12.45	\$0.00	\$45.99	
	4	90		\$29.75	\$7.10	\$12.45	\$0.00	\$49.30	
	Effecti	ive Date -	12/01/2013				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	60		\$20.28	\$7.10	\$12.45	\$0.00	\$39.83	
	2	70	•	\$23.66	\$7.10	\$12.45	\$0.00	\$43.21	
	3	80		\$27.04	\$7.10	\$12.45	\$0.00	\$46.59	
	4	90		\$30.42	\$7.10	\$12.45	\$0.00	\$49.97	
	Notes:	er samorana voluntarial .	оснавления заправоть часаниями местация регострое вересуру, т	CONTROL OF STREET, STREET, STREET, MICHIGAN PROBLEM.	TOPOTORS ESTEROLISM ELECTRONIC	CONTRACTO MERCHANICO CALCADADO.	Colorida adolescer reference esp	maren, essentia ammina montes.	
								d ton	
	Annro	ntice to To	ourneyworker Ratio:1:5	OUT AND	and the second second second	englesting whiliateath, shaddeligh	TENTOTO GEOTOGO GOLOMO NAME	£	
ABORER: CA	* *		*					**	
BORERS - ZONE		EK TEND	/LK	06/01/2013			\$12.45	\$0.00	\$52.60
				12/01/2013			\$12.45	\$0.00	\$53.35
				06/01/2014			\$12.45	\$0.00	\$54.10
				12/01/2014			\$12.45	\$0.00	\$54.85
				06/01/2015			\$12.45	\$0.00	\$55.60
				12/01/2015			\$12.45	\$0.00	\$56.35
				06/01/2016			\$12.45	\$0.00	\$57.10
For apprentice	rates see "	'Apprentice- I	LABORER"	12/01/2016	5 \$38.55	\$7.10	\$12.45	\$0.00	\$58.10
ABORER: CE		FINISHER	R TENDER	06/01/2013	\$33.05	\$7.10	\$12.45	\$0.00	\$52.60
BORERS - ZONE	£ J			12/01/2013	\$33.80	\$7.10	\$12.45	\$0.00	\$53.35
				06/01/2014	\$34.55	\$7.10	\$12.45	\$0.00	\$54.10
				12/01/2014	\$35.30	\$7.10	\$12.45	\$0.00	\$54.85
				06/01/2015	\$36.05	\$7.10	\$12.45	\$0.00	\$55.60
				12/01/2015	\$36.80	\$7.10	\$12.45	\$0.00	\$56.35
				06/01/2016	\$37.55	\$7.10	\$12.45	\$0.00	\$57.10
For apprentice	rates see "	Apprentice1	.ABORER"	12/01/2016	\$38.55	\$7.10	\$12.45	\$0.00	\$58.10
			TE/ASBESTOS REMOVE	R 12/01/2011	h-h-h-k-n-hah-ma-re-mal-an-a		\$12.45	\$0.00	

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MASON TENDER	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
LABORERS - ZONE 1	12/01/2013	\$34.05	\$7.10	\$12.45	\$0.00	\$53.60
	06/01/2014	\$34.80	\$7.10	\$12.45	\$0.00	\$54.35
	12/01/2014	\$35.55	\$7.10	\$12.45	\$0.00	\$55.10
	06/01/2015	\$36,30	\$7.10	\$12.45	\$0.00	\$55.85
	12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56.60
	06/01/2016	\$37.80	\$7.10	\$12.45	\$0.00	\$57.35
	12/01/2016	\$38.80	\$7.10	\$12.45	\$0.00	\$58.35
For apprentice rates see "Apprentice- LABORER"						
LABORER: MULTI-TRADE TENDER LABORERS - ZONE 1	06/01/2013	\$33,05	\$7.10	\$12.45	\$0.00	\$52,60
	12/01/2013	\$33.80	\$7.10	\$12.45	\$0.00	\$53.35
	06/01/2014	\$34.55	\$7.10	\$12.45	\$0.00	\$54.10
	12/01/2014	\$35.30	\$7.10	\$12.45	\$0.00	\$54.85
	06/01/2015	\$36.05	\$7.10	\$12.45	\$0.00	\$55.60
	12/01/2015	\$36.80	\$7.10	\$12.45	\$0.00	\$56.35
	06/01/2016	\$37.55	\$7.10	\$12.45	\$0.00	\$57.10
-	12/01/2016	\$38.55	\$7.10	\$12.45	\$0.00	\$58.10
For apprentice rates see "Apprentice- LABORER" LABORER: TREE REMOVER						
LABORER: 1REE REMOVER LABORERS - ZONE 1	06/01/2013	\$33.05	\$7.10	\$12.45	\$0.00	\$52.60
	12/01/2013	\$33.80	\$7.10	\$12.45	\$0.00	\$53.35
	06/01/2014	\$34.55	\$7.10	\$12.45	\$0.00	\$54.10
	12/01/2014	\$35.30	\$7.10	\$12.45	\$0.00	\$54.85
	06/01/2015	\$36.05	\$7.10	\$12.45	\$0.00	\$55.60
	12/01/2015	\$36.80	\$7.10	\$12.45	\$0.00	\$56.35
	06/01/2016	\$37.55	\$7.10	\$12.45	\$0.00	\$57.10
This clearify and an arration to the order and already account.	12/01/2016	\$38.55	\$7.10	\$12.45	\$0.00	\$58.10
This classification applies to the wholesale removal of standing trees including all associated trimming of branches and limbs, and applies tapprentice rates see "Apprentice-LABORER"	o the removal of branch	nes at locations n	ot on or aroun	d utility lines.	For	
LASER BEAM OPERATOR	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
ABORERS - ZONE 1	12/01/2013	\$34.05	\$7.10	\$12.45	\$0.00	\$53.60
	06/01/2014	1	\$7.10	\$12.45	\$0.00	\$54.35
	00/01/2014	\$34.8U	φ/.10	\$14.4J	J0.00	JJ4.JJ
		\$34.80 \$35.55				
	12/01/2014 06/01/2015	\$35.55 \$36.30	\$7.10	\$12.45 \$12.45 \$12.45	\$0.00 \$0.00 \$0.00	\$55.10
	12/01/2014	\$35.55		\$12.45 \$12.45	\$0.00 \$0.00	\$55.10 \$55.85
	12/01/2014 06/01/2015 12/01/2015	\$35.55 \$36.30 \$37.05	\$7.10 \$7.10 \$7.10	\$12.45 \$12.45 \$12.45	\$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60
	12/01/2014 06/01/2015	\$35.55 \$36.30 \$37.05 \$37.80	\$7.10 \$7.10 \$7.10 \$7.10	\$12.45 \$12.45 \$12.45 \$12.45	\$0.00 \$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60 \$57.35
For apprentice rates see "Apprentice- LABORER"	12/01/2014 06/01/2015 12/01/2015 06/01/2016	\$35.55 \$36.30 \$37.05	\$7.10 \$7.10 \$7.10	\$12.45 \$12.45 \$12.45	\$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60
MARBLE & TILE FINISHERS	12/01/2014 06/01/2015 12/01/2015 06/01/2016	\$35.55 \$36.30 \$37.05 \$37.80	\$7.10 \$7.10 \$7.10 \$7.10	\$12.45 \$12.45 \$12.45 \$12.45	\$0.00 \$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60 \$57.35
+	12/01/2014 06/01/2015 12/01/2015 06/01/2016 12/01/2016	\$35.55 \$36.30 \$37.05 \$37.80 \$38.80	\$7.10 \$7.10 \$7.10 \$7.10 \$7.10	\$12.45 \$12.45 \$12.45 \$12.45 \$12.45	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60 \$57.35 \$58.35
MARBLE & TILE FINISHERS	12/01/2014 06/01/2015 12/01/2015 06/01/2016 12/01/2016	\$35.55 \$36.30 \$37.05 \$37.80 \$38.80	\$7.10 \$7.10 \$7.10 \$7.10 \$7.10 \$7.10	\$12.45 \$12.45 \$12.45 \$12.45 \$12.45 \$16.51	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60 \$57.35 \$58.35
MARBLE & TILE FINISHERS	12/01/2014 06/01/2015 12/01/2015 06/01/2016 12/01/2016 02/01/2013 08/01/2013	\$35.55 \$36.30 \$37.05 \$37.80 \$38.80 \$36.20 \$36.91	\$7.10 \$7.10 \$7.10 \$7.10 \$7.10 \$10.18	\$12.45 \$12.45 \$12.45 \$12.45 \$12.45 \$16.51 \$16.58	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60 \$57.35 \$58.35 \$62.89 \$63.67
MARBLE & TILE FINISHERS	12/01/2014 06/01/2015 12/01/2015 06/01/2016 12/01/2016 02/01/2013 08/01/2013 02/01/2014	\$35.55 \$36.30 \$37.05 \$37.80 \$38.80 \$36.20 \$36.91 \$37.36	\$7.10 \$7.10 \$7.10 \$7.10 \$7.10 \$10.18 \$10.18	\$12.45 \$12.45 \$12.45 \$12.45 \$12.45 \$16.51 \$16.58 \$16.58	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60 \$57.35 \$58.35 \$62.89 \$63.67 \$64.12
MARBLE & TILE FINISHERS	12/01/2014 06/01/2015 12/01/2015 06/01/2016 12/01/2016 02/01/2013 08/01/2013 02/01/2014	\$35.55 \$36.30 \$37.05 \$37.80 \$38.80 \$36.20 \$36.91 \$37.36 \$38.07	\$7.10 \$7.10 \$7.10 \$7.10 \$7.10 \$10.18 \$10.18 \$10.18	\$12.45 \$12.45 \$12.45 \$12.45 \$12.45 \$16.51 \$16.58 \$16.58 \$16.65	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60 \$57.35 \$58.35 \$62.89 \$63.67 \$64.12 \$64.90
MARBLE & TILE FINISHERS	12/01/2014 06/01/2015 12/01/2015 06/01/2016 12/01/2016 02/01/2013 08/01/2013 02/01/2014 08/01/2014 02/01/2015	\$35.55 \$36.30 \$37.05 \$37.80 \$38.80 \$36.20 \$36.91 \$37.36 \$38.07 \$38.52	\$7.10 \$7.10 \$7.10 \$7.10 \$7.10 \$10.18 \$10.18 \$10.18 \$10.18	\$12.45 \$12.45 \$12.45 \$12.45 \$12.45 \$16.51 \$16.58 \$16.58 \$16.65	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60 \$57.35 \$58.35 \$62.89 \$63.67 \$64.12 \$64.90 \$65.35 \$66.13
MARBLE & TILE FINISHERS	12/01/2014 06/01/2015 12/01/2015 06/01/2016 12/01/2016 02/01/2013 08/01/2013 02/01/2014 08/01/2014 02/01/2015 08/01/2015	\$35.55 \$36.30 \$37.05 \$37.80 \$38.80 \$36.20 \$36.91 \$37.36 \$38.07 \$38.52 \$39.23	\$7.10 \$7.10 \$7.10 \$7.10 \$7.10 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18	\$12.45 \$12.45 \$12.45 \$12.45 \$12.45 \$16.51 \$16.58 \$16.58 \$16.65 \$16.65	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$55.10 \$55.85 \$56.60 \$57.35 \$58.35 \$62.89 \$63.67 \$64.12 \$64.90 \$65.35

Issue Date: 06/07/2013

MARBLE & TILE FINISHER - Local 3 Marble & Tile

	ive Date -	02/01/2013	Annuation Dose Wass	TToolsh	Domaion	Supplemental Unemployment	T-4-1 D -4-
Step	percent		Apprentice Base Wage	neam	Pension	Onemployment	Total Rate
1	50		\$18.10	\$10.18	\$16.51	\$0.00	\$44.79
2	60		\$21.72	\$10.18	\$16.51	\$0.00	\$48.41
3	70		\$25.34	\$10.18	\$16.51	\$0.00	\$52.03
4	80		\$28,96	\$10.18	\$16.51	\$0.00	\$55.65
5	90		\$32.58	\$10.18	\$16,51	\$0.00	\$59.27
Effecti	ive Date -	08/01/2013				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50		\$18.46	\$10.18	\$16,58	\$0.00	\$45.22
2	60		\$22.15	\$10.18	\$16.58	\$0.00	\$48.91
3	70		\$25.84	\$10.18	\$16.58	\$0.00	\$52.60
4	80		\$29.53	\$10.18	\$16.58	\$0.00	\$56.29
5	90		\$33.22	\$10.18	\$16.58	\$0.00	\$59.98
	to 40000000 historia; et	notorient entrototis tototototis tototototis tototototis	months and a desiration of the second continues and a second continues of the	WINDOWS SPECIAL NOW	erro recolució (comiscos económic	· SECTIONS CONTINUES - CO-CAIN PARAMAN	- mattheore tomorrow sources
Notes:							
							Heart for Park
Appre		urneyworker Ratio:1:3		contractic contractic contact	no emerces entrener entrener.	CONSCIONAL ANDREASON MAYBERRY, TOTAL TOTAL CONTRACTORS	MOREOWN MACHINE SERVICES

MARBLE MASONS, TILELAYERS & TERRAZZO MECH	02/01/2013	\$47.45	\$10.18	\$17.83	\$0.00	\$75.46
BRICKLAYERS LOCAL 3 - MARBLE & TILE	08/01/2013	\$48.35	\$10.18	\$17.90	\$0.00	\$76.43
	02/01/2014	\$48.91	\$10.18	\$17.90	\$0.00	\$76.99
	08/01/2014	\$49.81	\$10.18	\$17.97	\$0.00	\$77.96
	02/01/2015	\$50.37	\$10.18	\$1 7.97	\$0.00	\$78.52
	08/01/2015	\$51.27	\$10,18	\$18.04	\$0.00	\$79.49
	02/01/2016	\$51.84	\$10.18	\$18.04	\$0.00	\$80.06
	08/01/2016	\$52.74	\$10.18	\$18.12	\$0.00	\$81.04
	02/01/2017	\$53.31	\$10.18	\$18.12	\$0.00	\$81.61

Issue Date: 06/07/2013

A	Apprent	ice - MA	ARBLE-TILE-TERRAZZO A	MECHANIC - Local 3 Ma	rble & Ti	ile			
	Effective Step	Date - percent	02/01/2013	Apprentice Base Wage	Ugalth	Pension	Supplemental Unemployment	Total Rate	
-		50							
				\$23.73	\$10.18	\$17.83	\$0.00	\$51.74	
		60		\$28.47	\$10.18	\$17.83	\$0.00	\$56.48	
		70		\$33.22	\$10.18	\$17.83	\$0.00	\$61.23	
		80		\$37.96	\$10.18	\$17.83	\$0.00	\$65.97	
	5	90		\$42.71	\$10.18	\$17.83	\$0.00	\$70.72	
]	Effective	Date -	08/01/2013				Supplemental		
5	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
<u></u>	1	50		\$24.18	\$10.18	\$17.90	\$0.00	\$52.26	
	2	60		\$29.01	\$10.18	\$17.90	\$0.00	\$57.09	
	3	70		\$33.85	\$10.18	\$17.90	\$0.00	\$61.93	
	4	80		\$38.68	\$10.18	\$17.90	\$0.00	\$66.76	
	5	90		\$43.52	\$10.18	\$17.90	\$0.00	\$71.60	
۰۵ [أَوْ	Notes:	TOURISM MONEYAN ACT	stromos mitudoscui Assensiaud Stasonusidi mitaliakular Historiaudisi sha	406/0000 Audinosis Audinos	29.0 kitulius - 400 kity decr	necessor and entrance which	ncu successio esculvulent succession au	orbinards estimated extraction statements	
To the state of th								of the management	
tu Z	Apprent	ice to Jou	rneyworker Ratio:1:5	and actions account to the control of the control o	CALLERY MALIETING H		a comme mangani managa ay	3 Martagagi Walindangagar dagagatikantan belaganggalah	
			ON CONST. SITES)	06/01/2013	3 \$3	9.96 \$10.0	0 \$13.55	\$0.00	\$63.51
OPERATING ENGINI	EERS LOC	AL 4		12/01/2013	§ \$4	0.74 \$10.0	0 \$13.55	\$0.00	\$64.29
For apprentice ra	ites see "Aj	oprentice- O	PERATING ENGINEERS"						
MECHANICS M				06/01/2013	\$ \$3	9.96 \$10.0	0 \$13.55	\$0.00	\$63.51
PERATING ENGINE For apprentice ra			PERATING ENGINEERS"	12/01/2013	3 \$4	0.74 \$10.0	0 \$13.55	\$0.00	\$64.29
MILLWRIGHT (Zone 1)			04/01/2011	l \$3	3.57 \$8.67	\$15.61	\$0,00	\$57.85

Issue Date: 06/07/2013 Wage Request Number: 20130606-047 Page 21 of 34

	Step	percent		Apprentice Base Wage	Uaalth	Pension	Supplemental Unemployment	Total D	.4.
	1	50		11				Total Ra	
	2			\$16.79	\$8.67	\$11.64	\$0.00	\$37.	
		55		\$18.46	\$8.67	\$11.64	\$0.00	\$38.	77
	3	60		\$20.14	\$8.67	\$13.23	\$0.00	\$42.	04
	4	65		\$21.82	\$8.67	\$13.23	\$0.00	\$43.	72
	5	70		\$23.50	\$8.67	\$14.02	\$0.00	\$46.	19
	6	75		\$25.18	\$8.67	\$14.02	\$0.00	\$47.	87
	7	80		\$26.86	\$8.67	\$14.82	\$0.00	\$50.	35
	8	85		\$28.53	\$8.67	\$14.82	\$0.00	\$52.	02
1	Notes:	учинальную машиноры возучуна,	ing anti-physical Methodologic declarational acceptances the medical terms. The	hopping specific Anticolis. Continuor ampaianne allemanna	- 1230 EE - 1880 EE	tribular same-same same-same	Marchenitis destruction destruction and	American description Maries MAI Maries	, i
***	Apprer	itice to Jour	neyworker Ratio:1:5	TOTAL ATTEMENT CONTROL CONTROL OF APPROXIMENT OF VERSION OF	enter Alberta Alberta G	Made equation process :	attational acceptance wheelpropers again	TOWN WESTERN ACCESSED. GALLA	-
ORTAR MIXE				06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
IBORERS - ZONE I	1			12/01/2013		\$7.10	\$12.45	\$0.00	\$53.60
				06/01/2014	** ***	\$7.10	\$12.45	\$0.00	\$54.35
				12/01/2014	•		\$12.45	\$0.00	\$55.10
				06/01/2015		\$7.10	\$12.45	\$0.00	\$55.85
				12/01/2015		\$7.10	\$12.45	\$0.00	\$56.60
				06/01/2016		\$7.10	\$12.45	\$0.00	\$57.35
				12/01/2016		\$7.10	\$12.45	\$0.00	\$58.35
For apprentice ra	ates see "A	Apprentice- LAI	BORER"	12,01,2010	ψ5.00	Ψ1.10	Ψ12,13	φυ.υυ	Φ26.33
•			LANES,GRADALLS)	06/01/2013	\$21.17	\$10.00	\$13.55	\$0.00	\$44.72
PERATING ENGINI	EERS LO	CAL 4		12/01/2013	\$21.59	\$10.00	\$13.55	\$0.00	\$45.14
For apprentice ra	ates see "/	Apprentice- OPI	RATING ENGINEERS"		,	*			Ψ.υ
LER (TRUCK		•	ILLS)	06/01/2013	\$24.57	\$10.00	\$13.55	\$0.00	\$48.12
PERATING ENGINI				12/01/2013	\$25.06	\$10.00	\$13.55	\$0.00	\$48.61
			RATING ENGINEERS"						
THER POWER			ENT - CLASS II	06/01/2013	\$39.96	\$10.00	\$13.55	\$0.00	\$63.51
				12/01/2013	\$40.74	\$10.00	\$13.55	\$0.00	\$64.29
			RATING ENGINEERS"						
AINTER (BRID	OGES/T 5 - ZONE	,		01/01/2013	\$45.01	\$7.80	\$15.60	\$0.00	\$68.41

Supplemental **Total Rate** Effective Date Base Wage Health Pension Unemployment

\$15.60

\$0.00

\$59.31

Apprentice -	PAINTER Local 35	- BRIDGES/TANKS
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Effecti	ve Date -	01/01/2013				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50		\$22.51	\$7.80	\$0.00	\$0.00	\$30.31
2	55		\$24.76	\$7.80	\$3.52	\$0.00	\$36.08
3	60		\$27.01	\$7.80	\$3.84	\$0.00	\$38.65
4	65		\$29.26	\$7.80	\$4.16	\$0.00	\$41.22
5	70		\$31.51	\$7.80	\$13.68	\$0.00	\$52.99
6	75		\$33.76	\$7.80	\$14.00	\$0.00	\$55.56
7	80		\$36.01	\$7.80	\$14.32	\$0.00	\$58.13
8	90		\$40,51	\$7.80	\$14.96	\$0.00	\$63.27
Notes:	- recovered without and	7501	anadori, sua ripor dia (ripo) a haringon superiori dipologica di dipologica.	wayeen and the second	ingen Mensioner enemeratur eterature)	N 1999-1995 BENGARAN KENDANA SERIAMA	
	Steps are	/50 nts.					

01/01/2013

\$35.91

\$7.80

PAINTERS LOCAL 35 - ZONE 2

* If 30% or more of surfaces to be painted are new construction,

NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - New

Effect	ive Date - 01/01/2013				Supplemental	
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50	\$17.96	\$7.80	\$0.00	\$0.00	\$25.76
2	55	\$19.75	\$7.80	\$3.52	\$0.00	\$31.07
3	60	\$21.55	\$7.80	\$3.84	\$0.00	\$33.19
4	65	\$23.34	\$7.80	\$4.16	\$0.00	\$35.30
5	70	\$25.14	\$7.80	\$13.68	\$0.00	\$46.62
6	75	\$26.93	\$7.80	\$14.00	\$0.00	\$48.73
7	80	\$28.73	\$7.80	\$14.32	\$0.00	\$50,85
8	90	\$32.32	\$7.80	\$14.96	\$0.00	\$55.08
Notes:	un drondenne benedicid delesense eristinete alimbierus enadicid	i funtame seasone sumatori elassisis (elassis) telahadi salakda kuufisiku	incadente describia abbesin	ader Ballanians integrapione engineere	Semantinum elektrikulari elektriketi 2000-ti	55.07 FORM NAME CONTINUES TO SECURING
***************************************						*Panagamana
Appre	ntice to Journeyworker R	atio:1:1	and a second	de reconstitutações aparticiparent polyacyonyas	menachine enterioris sociolosis sociolosis	NO. MONAGONA AND AND AND AND AND AND AND AND AND A
AINTER (SPRAY OF	SANDBLAST, REPAINT	01/01/2013	\$33.5	97 \$7.80	\$15.60	\$0.00 \$57.37

PAINTER (SPRAY OR SANDBLAST, NEW) *

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint

Step	ive Date - percent	01/01/2013	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
	50		\$16.99	\$7.80	\$0.00	\$0.00	\$24.79
2	55		\$18.68	\$7.80	\$3.52	\$0.00	\$30.00
3	60		\$20.38	\$7.80	\$3.84	\$0.00	\$32,02
4	65		\$22.08	\$7.80	\$4.16	\$0.00	\$34.04
5	70		\$23.78	\$7.80	\$13.68	\$0.00	\$45.26
6	75		\$25.48	\$7.80	\$14.00	\$0.00	\$47.28
7	80		\$27.18	\$7.80	\$14.32	\$0.00	\$49.30
8	90		\$30.57	\$7.80	\$14.96	\$0.00	\$53,33

Apprentice	to J	lourneyworl	ker	Ratio:1	1:1	L
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PAINTER (TRAFFIC MARKINGS) LABORERS - ZONE I	06/01/2013	\$33.05	\$7.10	\$12.45	\$0.00	\$52.60
LABORERS - ZONE I	12/01/2013	\$33.80	\$7.10	\$12.45	\$0.00	\$53.35
	06/01/2014	\$34.55	\$7.10	\$12,45	\$0.00	\$54.10
	12/01/2014	\$35,30	\$7. 10	\$12.45	\$0.00	\$54.85
	06/01/2015	\$36.05	\$7.10	\$12.45	\$0.00 \$0.00 \$0.00	\$55.60
	12/01/2015	\$36.80	\$7 .10	\$12.45		\$56.35
	06/01/2016	\$37.55	\$7.10	\$12.45		\$57.10
	12/01/2016	\$38.55	\$7.10	\$12.45	\$0.00	\$58.10
For Apprentice rates see "Apprentice- LABORER"						
PAINTER / TAPER (BRUSH, NEW) *	01/01/2013	\$34.51	\$7,80	\$15.60	\$0.00	\$57.91

^{*} If 30% or more of surfaces to be painted are new construction,

NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effect	ive Date -	01/01/2013				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50		\$17.26	\$7.80	\$0.00	\$0.00	\$25.06
2	55		\$18.98	\$7.80	\$3.52	\$0.00	\$30.30
3	60		\$20.71	\$7.80	\$3.84	\$0.00	\$32.35
4	65		\$22.43	\$7.80	\$4.16	\$0.00	\$34.39
5	70		\$24.16	\$7.80	\$13.68	\$0.00	\$45.64
6	75		\$25.88	\$7.80	\$14.00	\$0.00	\$47.68
7	80		\$27.61	\$7.80	\$14.32	\$0.00	\$49.73
8	90		\$31.06	\$7.80	\$14,96	\$0.00	\$53.82

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PAINTER / TAPER (BRUSH, REPAINT) PAINTERS LOCAL 35 - ZONE 2	01/01/2013	\$32.57	\$7.80	\$15.60	\$0.00	\$55.97

Apprentice -	PAINTER Local	! 35 Zone 2 -	BRUSH REPAINT
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Step	ive Date - 01/01/2013 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.29	\$7.80	\$0.00	\$0.00	\$24.09
2	55	\$17.91	\$7.80	\$3.52	\$0.00	\$29.23
3	60	\$19.54	\$7.80	\$3.84	\$0.00	\$31.18
4	65	\$21.17	\$7.80	\$4.16	\$0.00	\$33.13
5	70	\$22.80	\$7.80	\$13.68	\$0.00	\$44.28
6	75	\$24,43	\$7.80	\$14.00	\$0.00	\$46.23
7	80	\$26.06	\$7.80	\$14.32	\$0.00	\$48.18
8	90	\$29.31	\$7.80	\$14.96	\$0.00	\$52.07

NOIES.

Steps are 750 hrs.

An	nrei	itice	to J	กมหา	ievw	arke	r R	atio:	1:	1

PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/01/2012	\$31.38	\$8.91	\$8.00	\$0.00	\$48.29
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND	08/01/2012	\$39.20	\$9.80	\$17.67	\$0.00	\$66.67
DECK) PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2013	\$40.70	\$9.80	\$17.67	\$0.00	\$68.17
	08/01/2014	\$42.20	\$9.80	\$17.67	\$0.00	\$69.67
	08/01/2015	\$43.70	\$9.80	\$17.67	\$0.00	\$71.17
PILE DRIVER	08/01/2012	\$39.20	\$9.80	\$17.67	\$0.00	\$66.67
PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2013	\$40.70	\$9.80	\$17.67	\$0.00	\$68.17
	08/01/2014	\$42.20	\$9.80	\$17.67	\$0.00	\$69.67
	08/01/2015	\$43.70	\$9.80	\$17.67	\$0.00	\$71.17

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Total Rate

Pension

Date - percent 50 60 70 75 80 80 90	08/01/2012	\$19.60 \$23.52 \$27.44 \$29.40 \$31.36 \$31.36 \$35.28	### Health \$9.80 \$9.80 \$9.80 \$9.80 \$9.80 \$9.80 \$9.80	\$17.67 \$17.67 \$17.67 \$17.67 \$17.67 \$17.67	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$47.07 \$50.99 \$54.91 \$56.87 \$58.83 \$58,83
60 70 75 80 80 90		\$23.52 \$27.44 \$29.40 \$31.36 \$31.36	\$9.80 \$9.80 \$9.80 \$9.80 \$9.80	\$17.67 \$17.67 \$17.67 \$17.67	\$0.00 \$0.00 \$0.00 \$0.00	\$50.99 \$54.91 \$56.87 \$58.83
70 75 80 80 90		\$27.44 \$29.40 \$31.36 \$31.36	\$9.80 \$9.80 \$9.80 \$9.80	\$17.67 \$17.67 \$17.67	\$0.00 \$0.00 \$0.00	\$54.91 \$56.87 \$58.83
75 80 80 90		\$29.40 \$31.36 \$31.36	\$9.80 \$9.80 \$9.80	\$17.67 \$17.67	\$0.00 \$0.00	\$56.87 \$58.83
80 80 90		\$31.36 \$31.36	\$9.80 \$9.80	\$17.67	\$0.00	\$58.83
80 90		\$31.36	\$9.80		,	
90				\$17.67	\$0.00	\$58.83
		\$35.28	ድብ ያለ			450,05
90			\$9.8U	\$17.67	\$0.00	\$62.75
		\$35.28	\$9.80	\$17.67	\$0.00	\$62.75
Date -	08/01/2013				Supplemental	
ercent	политичности	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
50		\$20.35	\$9.80	\$17.67	\$0.00	\$47.82
60		\$24.42	\$9.80	\$17.67	\$0.00	\$51.89
70		\$28.49	\$9.80	\$17.67	\$0.00	\$55,96
75		\$30.53	\$9.80	\$17.67	\$0.00	\$58.00
80		\$32.56	\$9.80	\$17.67	\$0.00	\$60.03
80		\$32.56	\$9.80	\$17.67	\$0.00	\$60.03
90		\$36.63	\$9.80	\$17.67	\$0.00	\$64.10
90		\$36.63	\$9.80	\$17.67	\$0.00	\$64.10
5 6 7 8 9	0 0 0 0 5 0 0	0 0 0 0 5 0 0	Apprentice Base Wage 0 \$20.35 0 \$24.42 0 \$28.49 5 \$30.53 0 \$32.56 0 \$32.56 0 \$33.53	Apprentice Base Wage Health \$20.35 \$9.80 \$24.42 \$9.80 \$28.49 \$9.80 \$30.53 \$9.80 \$30.53 \$9.80 \$32.56 \$9.80 \$32.56 \$9.80 \$32.56 \$9.80 \$33.53 \$9.80	Apprentice Base Wage Health Pension 0 \$20.35 \$9.80 \$17.67 0 \$24.42 \$9.80 \$17.67 0 \$28.49 \$9.80 \$17.67 5 \$30.53 \$9.80 \$17.67 0 \$32.56 \$9.80 \$17.67 0 \$32.56 \$9.80 \$17.67 0 \$36.63 \$9.80 \$17.67	Apprentice Base Wage Health Pension Unemployment 0 \$20.35 \$9.80 \$17.67 \$0.00 0 \$24.42 \$9.80 \$17.67 \$0.00 0 \$28.49 \$9.80 \$17.67 \$0.00 5 \$30.53 \$9.80 \$17.67 \$0.00 0 \$32.56 \$9.80 \$17.67 \$0.00 0 \$32.56 \$9.80 \$17.67 \$0.00 0 \$33.56 \$9.80 \$17.67 \$0.00 0 \$33.56 \$9.80 \$17.67 \$0.00 0 \$33.56 \$9.80 \$17.67 \$0.00

PIPEFITTER & STEAMFITTER 03/01/2013 \$49.34 \$14.39 \$0.00 \$8.75 \$72.48 PIPEFITTERS LOCAL 537

Apprentice - PIPEFITTER - Local 537

Apprentice to Journeyworker Ratio:1:3

Effect	ive Date - 03	3/01/2013			Supplemental	ntal		
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	40		\$19.74	\$8.75	\$6.50	\$0.00	\$34.99	
2	45		\$22.20	\$8.75	\$14.39	\$0.00	\$45.34	
3	60		\$29.60	\$8.75	\$14.39	\$0.00	\$52.74	
4	70		\$34.54	\$8.75	\$14.39	\$0.00	\$57.68	
5	80		\$39.47	\$8.75	\$14.39	\$0.00	\$62.61	

Notes:

** 1:3; 3:15; 1:10 thereafter / Steps are 1 yr.

Refrig/AC Mechanic **1:1;1:2;2:4;3:6;4:8;5:10;6:12;7:14;8:17;9:20;10:23(Max)

Apprentice to Journeyworker Ratio:**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PIPELAYER	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
LABORERS - ZONE I	12/01/2013	\$34.05	\$7.10	\$12,45	\$0.00	\$53.60
	06/01/2014	\$34.80	\$7.10	\$12.45	\$0.00	\$54.35
	12/01/2014	\$35.55	\$7.10	\$12.45	\$0.00	\$55.10
	06/01/2015	\$36.30	\$7.10	\$12.45	\$0.00	\$55.85
	12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56.60
	06/01/2016	\$37.80	\$7.10	\$12.45	\$0.00	\$57.35
For apprentice rates see "Apprentice-LABORER"	12/01/2016	\$38.80	\$7.10	\$12.45	\$0.00	\$58.35
PLUMBERS & GASFITTERS PLUMBERS & GASFITTERS LOCAL 12	03/01/2013	\$49.31	\$9.32	\$13.29	\$0.00	\$71.92

		ive Date - 03/01/2013				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	<u>;</u>
	1	35	\$17.26	\$9.32	\$4.97	\$0.00	\$31.55	i
	2	40	\$19.72	\$9.32	\$5.61	\$0.00	\$34.65	j
	3	55	\$27.12	\$9.32	\$7.53	\$0.00	\$43.97	!
	4	65	\$32.05	\$9.32	\$8.81	\$0.00	\$50.18	;
	5	75	\$36.98	\$9.32	\$10.09	\$0.00	\$56.39)
	Notes:		to anti-tita standario salatatio substancio sonoliure universe reversere everyente.	CLANCE DESIGNATE EXCENSION 4	ENTINE SERVICE DESIRES	-DOLL BOOK SOMEWARD STREET, 400		
		** 1:2; 2:6; 3:10; 4:14; 5 Step4 with lic\$53.29 Ste					u. Junitarius	
	Appre	ntice to Journeyworker l	tatio:**	henrint mountain schoolen och	control security to language	emotorber recenters, recommer and	THE PERSON NAMED ASSESSMENT	
NEUMATIC		OLS (TEMP.)	03/01/2013	\$49.34	\$8.75	\$14.39	\$0.00	\$72.48
For apprentice	e rates see	Apprentice- PIPEFITTER" or "I	LUMBER/PIPEFITTER"					
		TOOL OPERATOR	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
4BORERS - ZON	E I		12/01/2013	\$34.05	\$7.10	\$12.45	\$0.00	\$53.60
			06/01/2014	\$34.80	\$7.10	\$12.45	\$0.00	\$54.35
			12/01/2014	\$35,55	\$7.10	\$12.45	\$0.00	\$55.10
			06/01/2015	\$36.30	\$7.10	\$12.45	\$0.00	\$55.85
			12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56,60
			06/01/2016	\$37.80	\$7.10	\$12.45	\$0.00	\$57.35
			12/01/2016	\$38.80	\$7.10	\$12.45	\$0.00	\$58.35
		'Apprentice- LABORER"	SELECTE SERVICE SERVIC	an-mannannanna-muunna-		OCTORONO DE DESCRIPCION DE LA COMPANSION	·/************************************	
OWDERMAI 4BORERS - ZON		ASIEK	06/01/2013		\$7.10	\$12,45	\$0.00	\$53.60
			12/01/2013		\$7 .10	\$12.45	\$0.00	\$54.35
			06/01/2014		\$7.10	\$12.45	\$0.00	\$55.10
			12/01/2014		\$7.10	\$12.45	\$0.00	\$55.85
			06/01/2015		\$7.10	\$12.45	\$0.00	\$56.60
			12/01/2015		\$ 7.10	\$12.45	\$0.00	\$57.35
			06/01/2016	\$38.55	\$7.10	\$12.45	\$0.00	\$58.10

Issue Date: 06/07/2013 Wage Request Number: 20130606-047 Page 27 of 34

For apprentice rates see "Apprentice-LABORER"

12/01/2016

\$39.55

\$7.10

\$12.45

\$0.00

\$59.10

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
POWER SHOVEL/DERRICK/TRENCHING MACHINE OPERATING ENGINEERS LOCAL 4	06/01/2013	\$40.34	\$10.00	\$13.55	\$0.00	\$63.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2013	\$41.12	\$10.00	\$13.55	\$0.00	\$64.67
PUMP OPERATOR (CONCRETE)	06/01/2013	\$40,34	\$10.00	\$13.55	\$0.00	\$63.89
OPERATING ENGINEERS LOCAL 4	12/01/2013	\$41.12	\$10.00	\$13.55	\$0.00	\$64.67
For apprentice rates see "Apprentice-OPERATING ENGINEERS"		*******	423,44	•	45.00	ψο 1.07
PUMP OPERATOR (DEWATERING, OTHER)	06/01/2013	\$28.19	\$10.00	\$13.55	\$0.00	\$51.74
OPERATING ENGINEERS LOCAL 4	12/01/2013	\$28.74	\$10.00	\$13.55	\$0.00	\$52.29
For apprentice rates see "Apprentice- OPERATING ENGINEERS"		4-071	410,50	*	40.00	Ψ52,27
READY-MIX CONCRETE DRIVER IEAMSTERS LOCAL 25c	05/01/2011	\$31.21	\$7.25	\$6.19	\$0.00	\$44.65
RECLAIMERS	06/01/2013	\$39.96	\$10,00	\$13.55	\$0.00	\$63.51
OPERATING ENGINEERS LOCAL 4	12/01/2013	\$40.74	\$10.00	\$13.55	\$0.00	\$64.29
For apprentice rates see "Apprentice-OPERATING ENGINEERS"	12,01,2010	ψ.ισ., ι	Ψ10.00	\$15.55	\$0.00	φ04.2 <i>3</i>
RESIDENTIAL WOOD FRAME (All Other Work)	04/01/2011	\$24.24	\$8.67	\$15.51	\$0.00	\$48.42
CARPENTERS-ZONE 2 (Residential Wood)		4	Ψ0.07	4	40.00	ψ10,12
RESIDENTIAL WOOD FRAME CARPENTER **	05/01/2011	\$24.24	\$6.34	\$6.23	\$0.00	\$36.81
** The Residential Wood Frame Carpenter classification applies		42	4015	7	40.00	Ψ30.01
only to the construction of new, wood frame residences that do						
not exceed four stories including the basement. CARPENTERS -ZONE (Residential Wood) As of 9/1/09 Carpentry work on wood-frame residential WEATHERIZATION projects	s shall be paid the RESI	DENTIAL WOO	DD FRAME C	ARPENTER 1	ate.	
RIDE-ON MOTORIZED BUGGY OPERATOR	06/01/2013	\$33.30	\$7.10	\$12.45	\$0.00	\$52.85
ABORERS - ZONE 1	12/01/2013	\$34.05	\$7.10	\$12.45	\$0.00	\$53.60
	06/01/2014	\$34.80	\$7.10	\$12,45	\$0.00	\$54.35
	12/01/2014	\$35.55	\$7.10	\$12.45	\$0.00	\$55.10
	06/01/2015	\$36.30	\$7.10	\$12.45	\$0.00	\$55,85
	12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56.60
	06/01/2016	\$37.80	\$7.10	\$12.45	\$0.00	\$57.35
	12/01/2016	\$38.80	\$7.10	\$12.45	\$0.00	\$57.35
For apprentice rates see "Apprentice-LABORER"	12/01/2010	Φ20.0U	Φ1.10	#14.7J	μ υ.υυ	\$38.33
ROLLER/SPREADER/MULCHING MACHINE	06/01/2013	\$39.96	\$10,00	\$13.55	\$0.00	\$63,51
						400,01
PERATING ENGINEERS LOCAL 4	12/01/2013	\$40.74	\$10.00	\$13.55	\$0.00	\$64.20
PPERATING ENGINEERS LOCAL 4 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2013	\$40.74	\$10.00	\$13.55	\$0.00	\$64.29

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Apprentice - ROOFER - Local 33

Apprentice to Journeyworker Ratio:1:4

SIGN ERECTOR

PAINTERS LOCAL 35 - ZONE 2

\$7.05

\$7.07

\$0.00

\$39.93

Step	tive Date - 02/01/2013 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1							
	50	\$18.71	\$10.50	\$3.38	\$0.00	\$32.59	
2	60	\$22.45	\$10.50	\$10.70	\$0.00	\$43.65	
3	65	\$24.32	\$10.50	\$10.70	\$0.00	\$45.52	
4	75	\$28.06	\$10.50	\$10.70	\$0.00	\$49.26	
5	85	\$31.80	\$10.50	\$10.70	\$0.00	\$53.00	
Notes	** 1:5, 2:6-10, the 1:10; Step 1 is 2000 hrs.; Ste		entermetta turtumetta ecuseume	Principal Education Principal	ANTONIO VIIINININI WARRANI AL	Activities telephones typically property	
Appr	entice to Journeyworker		meneros armieros recreiro r	encocar exercicos cocosaro -	TOTAL CONTROL OF THE PARTY OF T	repres prosperities teachingues and accessively	
OOFER SLATE / TI OFERS LOCAL 33	LE / PRECAST CONCRI	ETE 02/01/201	3 \$37.66	\$10.50	\$10.70	\$0.00	\$58.86
For apprentice rates see	"Apprentice- ROOFER"	типиятителять неить наставления малена полимающим полимающим полимающим полимающим полимающим полимающим полим В политителять неить	and complete in the contribution in page or good or pion committy of an interpretable complete grows and an interpretable complete complet	ark mendarawa dinasaraha	NAVIAWANANAWAWAWAWAWAWA	killan arki Alaksanak i Agawa angana pinggang pinggaping pinggaping	arthurch avenue
EETMETAL WOR		02/01/201	3 \$42.32	\$9.82	\$18.24	\$2.11	\$72.49
Appro	entice - SHEET METAL	WORKER - Local 17-A					
Appre Effect	entice - <i>SHEET METAL</i> tive Date - 02/01/2013		Health	Pension	Supplemental Unemployment	Total Rate	
Аррго	entice - SHEET METAL tive Date - 02/01/2013 percent	Apprentice Base Wage		Pension	Unemployment	Total Rate	·
Appro Effect Step	entice - SHEET METAL tive Date - 02/01/2013 percent 40	Apprentice Base Wage \$16.93	\$9.82	\$4.00	Unemployment \$0.00	\$30.75	er atvastada saar sa
Appro Effect Step	entice - SHEET METAL tive Date - 02/01/2013 percent	Apprentice Base Wage \$16.93 \$16.93	\$9.82 \$9.82	\$4.00 \$4.00	\$0.00 \$0.00	\$30.75 \$30.75	
Appro Effect Step 1 2	entice - SHEET METAL tive Date - 02/01/2013 percent 40 40	Apprentice Base Wage \$16.93 \$16.93 \$19.04	\$9.82 \$9.82 \$9.82	\$4,00 \$4.00 \$8.00	\$0.00 \$0.00 \$1.11	\$30.75 \$30.75 \$37.97	
Appro Effect Step 1 2 3	entice - SHEET METAL tive Date - 02/01/2013 percent 40 40 45	Apprentice Base Wage \$16.93 \$16.93 \$19.04 \$19.04	\$9.82 \$9.82 \$9.82 \$9.82	\$4.00 \$4.00 \$8.00 \$8.00	\$0.00 \$0.00 \$0.00 \$1.11 \$1.11	\$30.75 \$30.75 \$37.97	T THE STANDARD MANAGEMENT
Effect Step 1 2 3 4	entice - SHEET METAL tive Date - 02/01/2013 percent 40 40 45 45	Apprentice Base Wage \$16.93 \$16.93 \$19.04 \$19.04 \$21.16	\$9.82 \$9.82 \$9.82 \$9.82 \$9.82	\$4.00 \$4.00 \$8.00 \$8.00 \$8.75	\$0.00 \$0.00 \$1.11 \$1.11 \$1.19	\$30.75 \$30.75 \$37.97 \$37.97 \$40.92	
Appro Effect Step 1 2 3 4 5	entice - SHEET METAL tive Date - 02/01/2013 percent 40 40 45 45 50	Apprentice Base Wage \$16.93 \$16.93 \$19.04 \$19.04 \$21.16 \$21.16	\$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82	\$4.00 \$4.00 \$8.00 \$8.00 \$8.75 \$9.00	\$0.00 \$0.00 \$1.11 \$1.11 \$1.19 \$1.20	\$30.75 \$30.75 \$37.97 \$37.97 \$40.92 \$41.18	** TREASURE AND
Appro Effect Step 1 2 3 4 5	entice - SHEET METAL tive Date - 02/01/2013 percent 40 40 45 45 50 50	\$16.93 \$16.93 \$19.04 \$19.04 \$21.16 \$21.16 \$25.39	\$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82	\$4.00 \$4.00 \$8.00 \$8.00 \$8.75 \$9.00 \$10.24	\$0.00 \$0.00 \$1.11 \$1.11 \$1.19 \$1.20 \$1.36	\$30.75 \$30.75 \$37.97 \$37.97 \$40.92 \$41.18 \$46.81	
Approx Effect Step 1 2 3 4 5 6 7	entice - SHEET METAL tive Date - 02/01/2013 percent 40 40 45 45 50 50 60	Apprentice Base Wage \$16.93 \$16.93 \$19.04 \$19.04 \$21.16 \$21.16 \$25.39 \$27.51	\$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82	\$4.00 \$4.00 \$8.00 \$8.00 \$8.75 \$9.00 \$10.24 \$10.99	\$0.00 \$0.00 \$1.11 \$1.11 \$1.20 \$1.36 \$1.45	\$30.75 \$30.75 \$37.97 \$37.97 \$40.92 \$41.18 \$46.81 \$49.77	· MATANAMANANA
Approx Effect Step 1 2 3 4 5 6 6 7 8	entice - SHEET METAL tive Date - 02/01/2013 percent 40 40 45 45 50 50 60 65	\$16.93 \$16.93 \$19.04 \$19.04 \$21.16 \$21.16 \$25.39 \$27.51	\$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82	\$4.00 \$4.00 \$8.00 \$8.00 \$8.75 \$9.00 \$10.24	\$0.00 \$0.00 \$1.11 \$1.11 \$1.19 \$1.20 \$1.36	\$30.75 \$30.75 \$37.97 \$37.97 \$40.92 \$41.18 \$46.81	
Approx Effect Step 1 2 3 4 5 6 7 8 8 9 10	entice - SHEET METAL tive Date - 02/01/2013 percent 40 40 45 45 50 50 60 65 75 85	Apprentice Base Wage \$16.93 \$16.93 \$19.04 \$19.04 \$21.16 \$21.16 \$25.39 \$27.51	\$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82	\$4.00 \$4.00 \$8.00 \$8.00 \$8.75 \$9.00 \$10.24 \$10.99 \$12.49	\$0.00 \$0.00 \$1.11 \$1.11 \$1.19 \$1.20 \$1.36 \$1.45	\$30.75 \$30.75 \$37.97 \$37.97 \$40.92 \$41.18 \$46.81 \$49.77 \$55.67	
Approx Effect Step 1 2 3 4 5 6 7 8 9	entice - SHEET METAL tive Date - 02/01/2013 percent 40 40 45 45 50 50 60 65 75 85	\$16.93 \$16.93 \$19.04 \$19.04 \$21.16 \$21.16 \$25.39 \$27.51	\$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82 \$9.82	\$4.00 \$4.00 \$8.00 \$8.00 \$8.75 \$9.00 \$10.24 \$10.99 \$12.49	\$0.00 \$0.00 \$1.11 \$1.11 \$1.19 \$1.20 \$1.36 \$1.45	\$30.75 \$30.75 \$37.97 \$37.97 \$40.92 \$41.18 \$46.81 \$49.77 \$55.67	

06/01/2013

\$25.81

Step	ive Date - 06/01/2013 percent	Apprentice Base Wage	Health	Pension	Supplemental 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:	as another energies energies expense expenses whereas and see see Steps are 4 mos.	didd Andrew america partir partir aptical materia materia caratra	erocece societic minialia	CARLES ELECTION (LONGON)	t spreade products exemples and	Estanda Autorititis Vercentitis vercenting	
Appre	entice to Journeyworker Ratio	:1:1		CONTRACTOR CONTRACTOR	esternore reconstruite successive above	S When whether the technique assumance	
	H MOVING EQUIP < 35 TON CIL NO. 10 ZONE A	IS 12/01/2012	\$31.84	\$8.91	\$8.00	\$0.00	\$48.7
EARTI	H MOVING FOLLID > 25 TON	[5]			40.00	*	***************

SPECIALIZED EARTH MOVING EQUIP < 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/01/2012	\$31.84	\$8.91	\$8.00	\$0.00	\$48.75
SPECIALIZED EARTH MOVING EQUIP > 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/01/2012	\$32.13	\$8.91	\$8.00	\$0.00	\$49.04
SPRINKLER FITTER SPRINKLER FITTERS LOCAL 550 - (Section A)	03/01/2013	\$52.58	\$8.42	\$12.60	\$0.00	\$73.60

Step	ctive Date - 03/01/2013 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	35	\$18.40	\$8.42	\$8.00	\$0.00	\$34.82	
2	40	\$21.03	\$8.42	\$8.00	\$0.00	\$37.45	
3	45	\$23.66	\$8.42	\$8.00	\$0.00	\$40.08	
4	50	\$26.29	\$8.42	\$8.00	\$0.00	\$42.71	
5	55	\$28.92	\$8.42	\$8.00	\$0.00	\$45.34	
6	60	\$31.55	\$8.42	\$8.00	\$0.00	\$47.97	
7	65	\$34.18	\$8.42	\$8.00	\$0.00	\$50.60	
8	70	\$36.81	\$8.42	\$8.00	\$0.00	\$53.23	
9	75	\$39.44	\$8.42	\$8,00	\$0.00	\$55.86	
10	80	\$42.06	\$8.42	\$8.00	\$0.00	\$58.48	
Note	es: Steps are 850 hours	AND ANDROOM ANDROOM MARKET WHITEHOUT MYSTERE STRONGE PROSECUTE	TOTOTOGOT TOTOTOGOTO, ARTOGOTOGO AA	CONTROL COMMENT	detertaire reconnens manuscon as	ANNARAM MARAMATAN TOTAL TOTAL TOTAL STATE OF STA	
App	rentice to Journeyworker Ratio	:1:1	populate occurrence, economicos entre	COSTOC COSTOCOLO CONTOCONO S	retriera consister escuesas sus	CANA ANDRONE OFFICERS	
AM BOILER OF		06/01/2013	\$39.96	\$10,00	\$13.55	\$0.00	\$63.51
RATING ENGINEERS	LOCAL 4	12/01/2013	\$40.74	\$10.00	\$13.55	\$0.00	\$64.29

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN OPERATING ENGINEERS LOCAL 4	06/01/2013	\$39.96	\$10.00	\$13.55	\$0.00	\$63.51
For apprentice rates see "Apprentice-OPERATING ENGINEERS"	12/01/2013	\$40.74	\$10.00	\$13.55	\$0.00	\$64.29
TELECOMMUNICATION TECHNICIAN	03/01/2013	\$32.64	\$13,00	\$12.51	\$0.00	\$58.15
ELECTRICIANS LOCAL 103	09/01/2013	\$33.15	\$13.00	\$12.52	\$0.00	\$58.67
	03/01/2014	\$33.69	\$13.00	\$12.54	\$0.00	\$59.23
	09/01/2014	\$34.20	\$13.00	\$12.56	\$0.00	\$59.76
	03/01/2015	\$34.74	\$13.00	\$12.57	\$0.00	\$60.31
	09/01/2015	\$35.45	\$13.00	\$12.59	\$0.00	\$61.04
	03/01/2016	\$36.17	\$13.00	\$12.62	\$0.00	\$61.79

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 103

	ive Date -	03/01/2013				Supplemental	
Step	percent	Hadron Manuayayayayayayaya	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	40		\$13.06	\$13,00	\$0.39	\$0.00	\$26.45
2	40		\$13.06	\$13.00	\$0.39	\$0.00	\$26.45
3	45		\$14.69	\$13.00	\$10.77	\$0.00	\$38.46
4	45		\$14.69	\$13.00	\$10.77	\$0.00	\$38.46
5	50		\$16.32	\$13.00	\$11.02	\$0.00	\$40.34
6	55		\$17.95	\$13.00	\$11.27	\$0.00	\$42.22
7	60		\$19.58	\$13.00	\$11.52	\$0.00	\$44.10
8	65		\$21.22	\$13.00	\$11.77	\$0.00	\$45.99
9	70		\$22.85	\$13.00	\$12.02	\$0.00	\$47.87
10	75		\$24.48	\$13.00	\$12.26	\$0.00	\$49.74
ffect	ive Date -	09/01/2013				Supplemental	
tep	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
	percent 40		Apprentice Base Wage \$13.26	\$13.00	Pension \$0.40	Unemployment \$0.00	Total Rate \$26.66
1	 						
1 2	40		\$13.26	\$13.00	\$0.40	\$0.00	\$26.66
Step 1 2 3 4	40 40		\$13.26 \$13.26	\$13.00 \$13.00	\$0.40 \$0.40	\$0.00 \$0.00	\$26.66 \$26.66
1 2 3 4	40 40 45		\$13.26 \$13.26 \$14.92	\$13.00 \$13.00 \$13.00	\$0.40 \$0.40 \$9.79	\$0.00 \$0.00 \$0.00	\$26.66 \$26.66 \$37.71
1 2 3 4 5	40 40 45 45		\$13.26 \$13.26 \$14.92 \$14.92	\$13.00 \$13.00 \$13.00 \$13.00	\$0.40 \$0.40 \$9.79 \$9.79	\$0.00 \$0.00 \$0.00 \$0.00	\$26.66 \$26.66 \$37.71 \$37.71
1 2 3	40 40 45 45 50		\$13.26 \$13.26 \$14.92 \$14.92 \$16.58	\$13.00 \$13.00 \$13.00 \$13.00 \$13.00	\$0.40 \$0.40 \$9.79 \$9.79 \$10.04	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$26.66 \$26.66 \$37.71 \$37.71
1 2 3 4 5 6	40 40 45 45 50 55		\$13.26 \$13.26 \$14.92 \$14.92 \$16.58 \$18.23	\$13.00 \$13.00 \$13.00 \$13.00 \$13.00 \$13.00	\$0.40 \$0.40 \$9.79 \$9.79 \$10.04 \$10.29	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$26.66 \$26.66 \$37.71 \$37.71 \$39.62 \$41.52
1 2 3 4 5 6	40 40 45 45 50 55 60		\$13.26 \$13.26 \$14.92 \$14.92 \$16.58 \$18.23 \$19.89	\$13.00 \$13.00 \$13.00 \$13.00 \$13.00 \$13.00 \$13.00	\$0.40 \$0.40 \$9.79 \$9.79 \$10.04 \$10.29 \$10.54	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$26.66 \$26.66 \$37.71 \$37.71 \$39.62 \$41.52

Apprentice to Journeyworker Ratio:1:1

						·		Unemployment	
ERRAZZO F				02/01/201	3 \$46.35	\$10.18	\$17.83	\$0.00	\$74.36
ICKLAYERS LO	CAL 3 - M	IARDLE & TILE		08/01/201	3 \$47.25	\$10.18	\$17.90	\$0.00	\$75.33
				02/01/201	4 \$47.81	\$10.18	\$17.90	\$0.00	\$75.89
				08/01/201	4 \$48.71	\$10.18	\$17.97	\$0.00	\$76.86
				02/01/201	5 \$49.27	\$10.18	\$17.97	\$0.00	\$77.42
				08/01/201	5 \$50.17	\$10.18	\$18.04	\$0.00	\$78.39
				02/01/201	6 \$50.74	\$10.18	\$18.04	\$0.00	\$78.96
				08/01/201	6 \$51.64	\$10.18	\$18.12	\$0.00	\$79.94
				02/01/201	7 \$52.21	\$10.18	\$18.12	\$0.00	\$80.51
		ntice - TERRAZZO F1 ive Date - 02/01/2013 percent		<i>arble & Tile</i> rentice Base Wage	Health	Pension	Supplemental Unemployment		
	1	50		\$23.18	\$10.18	\$17.83	\$0.00		
	2	60		\$27.81	\$10.18	\$17.83	\$0.00		
	3	70		\$32,45	\$10.18	\$17.83	\$0.00		
	4	80		\$37.08	\$10.18	\$17.83	\$0.00		
	5	90		\$41.72	\$10.18	\$17.83	\$0.00		
		ive Date - 08/01/2013					Supplemental		
	Step	percent	App	rentice Base Wage		Pension	Unemployment	Total Rate	
	1	50		\$23.63	\$10.18	\$17.90	\$0.00	\$51.71	
	2	60		\$28.35	\$10.18	\$17.90	\$0.00	\$56.43	
	3	70		\$33.08	\$10.18	\$17.90	\$0.00	\$61.16	
	4	80		\$37.80	\$10.18	\$17.90	\$0.00	\$65.88	
	5	90		\$42.53	\$10.18	\$17.90	\$0.00	\$70.61	
	Notes:	e madeiro e emanari variano, manusu sumassi.	COLOROGO MANAGEM PROVINCES CONTROL	r minimum minimum timinum audusaus	TEXALERE VERIFICAN MARKET	· ·	and a second	Section Control Contro	
	Appre	ntice to Journeyworker	Ratio:1:3	TATORNEO MONTONIO ALIGNALIA MALAGRANA (COLOR CONTRACTOR AND THE	entered comments constitute of	CONTROL AND	NAMES CONTRACTOR SEASONS PROPERTY.	
ST BORING			· · · · · · · · · · · · · · · · · · ·	06/01/2013	3 \$34.45	\$7.10	\$12.60	\$0.00	\$54.15
ORERS - FOUI	VDATION	AND MARINE		12/01/2013	3 \$35.20	\$7.10	\$12.60	\$0.00	\$54.90
				06/01/2014	4 \$35.95	\$7.10	\$12.60	\$0.00	\$55.65
				12/01/2014	4 \$36.70	\$7.10	\$12.60	\$0.00	\$56.40
				06/01/201:	5 \$37.45	\$7.10	\$12.60	\$0.00	\$57.15

Effective Date Base Wage Health

Classification

For apprentice rates see "Apprentice- LABORER"

Supplemental

Unemployment

Pension

Total Rate

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12/01/2015

06/01/2016

12/01/2016

\$38.20

\$38.95

\$39.95

\$7.10

\$7.10

\$7.10

\$12.60

\$12.60

\$12.60

\$0.00

\$0.00

\$0.00

\$57.90

\$58.65

\$59.65

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING DRILLER HELPER LABORERS - FOUNDATION AND MARINE	06/01/2013	\$33.17	\$7.10	\$12.60	\$0.00	\$52.87
EADORDIS - POUNDATION AND MARGINE	12/01/2013	\$33,92	\$7.10	\$12.60	\$0.00	\$53.62
	06/01/2014	\$34.67	\$7.10	\$12.60	\$0.00	\$54.37
	12/01/2014	\$35.42	\$7.10	\$12.60	\$0.00	\$55.12
	06/01/2015	\$36.17	\$7.10	\$12.60	\$0.00	\$55.87
	12/01/2015	\$36.92	\$7.10	\$12.60	\$0.00	\$56.62
	06/01/2016	\$37.67	\$7.10	\$12.60	\$0.00	\$57.37
	12/01/2016	\$38.67	\$7.10	\$12.60	\$0.00	\$58.37
For apprentice rates see "Apprentice- LABORER"						
TEST BORING LABORER LABORERS - FOUNDATION AND MARINE	06/01/2013	\$33,05	\$7.10	\$12.60	\$0.00	\$52.75
MINORANG TOOLISHTON AND MERCHEL	12/01/2013	\$33.80	\$7.10	\$12.60	\$0.00	\$53.50
	06/01/2014	\$34.55	\$7.10	\$12.60	\$0.00	\$54.25
	12/01/2014	\$35.30	\$7.10	\$12.60	\$0.00	\$55.00
	06/01/2015	\$36.05	\$7.10	\$12.60	\$0.00	\$55.75
	12/01/2015	\$36.80	\$7.10	\$12.60	\$0.00	\$56.50
	06/01/2016	\$37.55	\$7.10	\$12.60	\$0.00	\$57.25
	12/01/2016	\$38.55	\$7.10	\$12.60	\$0.00	\$58.25
For apprentice rates see "Apprentice- LABORER"						
TRACTORS/PORTABLE STEAM GENERATORS OPERATING ENGINEERS LOCAL 4	06/01/2013	\$39.96	\$10.00	\$13.55	\$0.00	\$63.51
	12/01/2013	\$40.74	\$10.00	\$13.55	\$0.00	\$64.29
For apprentice rates see "Apprentice- OPERATING ENGINEERS"		· v - · · · · · · · · · · · · · · · · ·				
TRAILERS FOR EARTH MOVING EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/01/2012	\$32.42	\$9.07	\$8.00	\$0.00	\$49.49
TUNNEL WORK - COMPRESSED AIR	06/01/2013	\$45.33	\$7.10	\$13.00	\$0.00	\$65.43
LABORERS (COMPRESSED AIR)	12/01/2013	\$46.08	\$7.10	\$13.00	\$0.00	\$66.18
	06/01/2014	\$46.83	\$7.10	\$13.00	\$0.00	\$66.93
	12/01/2014	\$47.58	\$7.10	\$13.00	\$0.00	\$67.68
	06/01/2015	\$48.33	\$7.10	\$13.00	\$0.00	\$68.43
	12/01/2015	\$49.08	\$7.10	\$13.00	\$0.00	\$69.18
	06/01/2016	\$49.83	\$7.10	\$13.00	\$0.00	\$69.93
	12/01/2016	\$50.83	\$7.10	\$13.00	\$0.00	\$70.93
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	06/01/2013	\$47.33	\$7.10	\$13.00	\$0.00	\$67.43
LABORERS (COMPRESSED AIR)	12/01/2013	\$48.08	\$7.10	\$13.00	\$0.00	\$68.18
	06/01/2014	\$48.83	\$7.10	\$13.00	\$0.00	\$68.93
	12/01/2014	\$49.58	\$7.10	\$13.00	\$0.00	\$69.68
	06/01/2015	\$50.33	\$7.10	\$13.00	\$0.00	\$70,43
	12/01/2015	\$51.08	\$7.10	\$13.00	\$0.00	\$71.18
	06/01/2016	\$51.83	\$7.10	\$13.00	\$0.00	\$71.93
	12/01/2016	\$52.83	\$7.10	\$13.00	\$0.00	\$72.93
For apprentice rates see "Apprentice-LABORER"				. /++		4.20

Issue Date: 06/07/2013

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR LABORERS (FREE AIR TUNNEL)	06/01/2013	\$37.40	\$7.10	\$13.00	\$0.00	\$57.50
TOOLERS (TILL THE TORING)	12/01/2013	\$38.15	\$7.10	\$13.00	\$0.00	\$58.25
	06/01/2014	\$38.90	\$7.10	\$13.00	\$0.00	\$59.00
	12/01/2014	\$39.65	\$7.10	\$13.00	\$0.00	\$59.75
	06/01/2015	\$40.40	\$7.10	\$13.00	\$0.00	\$60.50
	12/01/2015	\$41.15	\$7.10	\$13.00	\$0.00	\$61.25
	06/01/2016	\$41.90	\$7.10	\$13.00	\$0.00	\$62.00
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$42.90	\$7.10	\$13.00	\$0.00	\$63.00
TUNNEL WORK - FREE AIR (HAZ. WASTE)	06/01/2013	\$39.40	\$7.10	\$13.00	\$0.00	\$59.50
ABORERS (FREE AIR TUNNEL)	12/01/2013	\$40.15	\$7.10	\$13.00	\$0.00	\$60.25
	06/01/2014	\$40.90	\$7.10	\$13.00	\$0.00	\$61.00
	12/01/2014	\$41.65	\$7.10	\$13.00	\$0.00	\$61.75
	06/01/2015	\$42.40	\$7.10	\$13.00	\$0.00	\$62.50
	12/01/2015	\$43.15	\$7.10	\$13.00	\$0.00	\$63.25
	06/01/2016	\$43.90	\$7.10	\$13.00	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$44.90	\$7.10	\$13.00	\$0.00	\$65.00
/AC-HAUL						
EAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/01/2012	\$31.84	\$8.91	\$8.00	\$0.00	\$48.75
VAGON DRILL OPERATOR	06/01/2013	\$33.30	\$7. 10	\$12.45	\$0.00	\$52.85
ABORERS - ZONE I	12/01/2013	\$34.05	\$7.10	\$12.45	\$0.00	\$53.60
	06/01/2014	\$34.80	\$7.10	\$12.45	\$0.00	\$54.35
	12/01/2014	\$35.55	\$7.10	\$12.45	\$0.00	\$55.10
	06/01/2015	\$36.30	\$7.10	\$12.45	\$0.00	\$55.85
	12/01/2015	\$37.05	\$7.10	\$12.45	\$0.00	\$56.60
	06/01/2016	\$37.80	\$7.10	\$12.45	\$0.00	\$57.35
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$38.80	\$7.10	\$12.45	\$0.00	\$58.35
VASTE WATER PUMP OPERATOR	06/01/2013	\$40.34	\$10.00	\$13.55	\$0.00	\$63.89
PERATING ENGINEERS LOCAL 4	12/01/2013	\$41.12	\$10.00	\$13.55	\$0.00	\$64.67
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2013	ψΤΙ,ΙΔ	910,00	Ψ13.33	υυ,υψ	Φ 04.07
VATER METER INSTALLER	03/01/2013	\$49.31	\$9.32	\$13.29	\$0.00	\$71.92

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) unless otherwise specified.

- Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof.
- ** 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, 6:8, 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.