

Project Manual

Great Hollow Beach Access Improvements

Town of Truro

Truro, Massachusetts

May 2025

Fuss & O'Neill, Inc. 115 Broad Street, 6th Floor Boston, MA 02110

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EXHIBITS

A - Geotechnical Information

SECTION 00110

INVITATION FOR BIDS

GREAT HOLLOW BEACH ACCESS IMPROVEMENTS

The Town of Truro invites sealed Bids for the proposed construction of a new public access structure at the Great Hollow Beach parking lot. Sealed Bids will be received at the Town of Truro, Town Hall, Attn: Jarrod Cabral – Director of Public Works, 24 Town Hall Road, Truro, MA 02666 until the bid deadline of 2:00 P.M. on Wednesday, June 25, 2025. Late bids will be rejected. Immediately following the bid deadline, bids will be publicly opened in the same building.

Digital (PDF) copies of the Contract Documents may be obtained as of **12:00 noon Thursday, May 30 2025** by transmitting an email request to the Truro Department of Public Works at jcabral@truroma.gov An email response with a download link will be provided to the requester between 8:00 a.m. and 4:00 p.m. Mon – Fri.

Sealed envelopes containing bids shall be clearly marked "Bid – Great Hollow Beach Access Improvements Project".

NOTE: One original and one (1) copy of each bid shall be submitted. NO emailed or faxed proposals will be accepted.

The "Great Hollow Beach Access Improvements Project" consists of the construction of a new public access structure.

The Contract Time shall be **ninety (90) Calendar Days**, commencing ten (10) days following the Effective Date of the Agreement.

Questions concerning this Invitation for Bids must be submitted <u>in writing by email</u> to: Jarrod Cabral, Director of Public Works, Town of Truro, 24 Town Hall Road, Truro, MA 02666, e-mail: jcabral@truro-ma.gov. Questions must be submitted by 2:00 P.M. on June 9, 2025.

Complete instructions for filing Bids are included in the Instructions to Bidders section.

The bidding and award of this Contract are subject to the provisions of Massachusetts General Laws (M.G.L.) Chapter 30, Section 39M as amended.

Wage rates for this Project are subject to the minimum wage rates as per M.G.L., Chapter 149, Section 26 to 27H inclusive.

All Bidders shall furnish with their Bid a bid guaranty in the form of a bid bond, cash or a certified check, treasurer's check, or cashier's check issued by a responsible bank or trust company, in the amount of 5% of the total amount of the bid and made payable to the Town of Truro, Massachusetts.

Performance and Labor and Materials Payment Bonds, in the full amount of the Contract Price, will be required of the Successful Bidder. No Bid may be withdrawn less than sixty (60) days after the date

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of the opening of bids.

The Town of Truro, acting through the Town Manager, the Awarding Authority reserves the right to reject any and all bids, waive minor informalities, and to award the contract in the best interest of the Town.

END OF SECTION

SECTION 00200

INSTRUCTIONS TO BIDDERS

TABLE OF ARTICLES

- 1. Defined Terms
- 2. Copies of Contract Documents
- 3. Qualifications of Bidders
- 4. Examination of Bidding Documents, Other Related Data and Site
- Pre-Bid Conference
- 6. Site and Other Areas
- 7. Interpretations and Addenda
- 8. Bid Security
- 9. Contract Time
- 10. Liquidated Damages
- 11. Substitute and "or equal" Items
- 12. Preparation of Bid
- 13. Basis of Bid; Evaluation of Bids
- 14. Submission of Bid
- 15. Modification or Withdrawal of Bid
- 16. Opening of Bids
- 17. Disqualification of Bidders
- 18. Bids to Remain Open
- 19. Award of Contract
- 20. Contract Securities
- 21. Contract Insurance
- 22. Execution of Agreement
- 23. Sales Taxes
- 24. Massachusetts Wage Rates
- 25. Massachusetts Project Requirements

ARTICLE 1 DEFINED TERMS

1.1 Terms used in these Instructions to Bidders will have the meanings indicated in the General Conditions and Supplementary Conditions. The term "Successful Bidder" means the lowest responsible Bidder submitting a responsive Bid to whom OWNER (on the basis of OWNER's evaluation as hereinafter provided) makes an award.

ARTICLE 2 COPIES OF CONTRACT DOCUMENTS

- 2.1 Refer to Advertisement for Bids for information on examination and procurement of documents.
- 2.2 Complete sets of Bidding Documents shall be used in preparing Bids; neither OWNER nor ENGINEER assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
- 2.3 OWNER and ENGINEER in making copies of Bidding Documents available on the above terms do so only for the purpose of obtaining Bids for the Work and do not confer a license or grant for any other use.

ARTICLE 3 QUALIFICATIONS OF BIDDERS

- 3.1 Bidders shall be experienced in the kind of Work to be performed, shall have the necessary equipment therefore, and shall possess sufficient capital to properly execute the Work within the time allowed. Bids received from Bidders who have previously failed to complete Work within the time required, or who have previously performed similar Work in an unsatisfactory manner, may be rejected. A Bid may be rejected if Bidder cannot show that he has the necessary ability, plant and equipment to commence the Work at the time prescribed and thereafter to prosecute and complete the Work at the rate or within the time specified. A Bid may be rejected if Bidder is already obligated for the performance of other Work which would delay the commencement, prosecution or completion of the Work.
- 3.2 Bidders may be investigated by OWNER to determine if they are qualified to perform the Work. All Bidders shall be prepared to submit within five days of OWNER's or ENGINEER's request, written evidence of such information and data necessary to make this determination. The investigation of a Bidder will seek to determine whether the organization is adequate in size, is authorized to do business in the jurisdiction where the project is located, has had previous experience and whether available equipment and financial resources are adequate to assure OWNER that the Work will be completed in accordance with the terms of the Agreement. OWNER reserves the right to reject any Bid if the evidence submitted by, or investigation of such Bidder fails to satisfy OWNER that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein.

ARTICLE 4 EXAMINATION OF BIDDING DOCUMENTS, OTHER RELATED DATA, AND SITE

- 4.1 It is the responsibility of each Bidder before submitting a Bid to:
 - A. examine and carefully study the Bidding Documents, including any Addenda and the other related data identified in the Bidding Documents;
 - B. visit the Site, become familiar with traffic conditions and various site constraints as well as exploring staging and laydown opportunities.
 - C. become familiar with and satisfy Bidder as to all federal, state, and local Laws and Regulations that may affect cost, progress, or performance of the Work;
 - D. carefully study all reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and carefully study all reports and drawings of a Hazardous Environmental Condition, if any, at the Site which have been identified in the Supplementary Conditions as provided in paragraph4.06 of the General Conditions;
 - E. obtain and carefully study (or assume responsibility for doing so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the

Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents, and safety precautions and programs incident thereto;

- F. agree at the time of submitting its Bid that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price bid and within the times and in accordance with the other terms and conditions of the Bidding Documents;
- G. become aware of the general nature of the Work to be performed by OWNER and others at the site that relates to the Work as indicated in the Bidding Documents;
- H. correlate the information known to Bidder, information and observations obtained from visits to the site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents;
- I. promptly give OWNER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in the Bidding Documents and confirm that the written resolution thereof by ENGINEER is acceptable to Bidder; and
- J. determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work.
- 4.2 On request, OWNER will provide Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies.
- 4.3 Subsurface and Physical Conditions
 - A. The Exhibit identifies:
 - 1. Geotechnical Data collected by the engineers.
- 4.4 Underground Facilities
 - A. Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or contiguous to the site is based upon information and data furnished to OWNER and ENGINEER by owners of such Underground Facilities, including OWNER, or others.
- 4.5 Hazardous Environmental Condition
 - A. The Supplementary Conditions identify those reports if any and drawings, if any, relating to a Hazardous Environmental Condition identified at the Site, if any, that ENGINEER has used in preparing the Bidding Documents.
- 4.6 Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to subsurface conditions, other physical conditions and Underground Facilities, and possible changes in the Bidding Documents due to differing or unanticipated conditions appear in

- paragraphs 4.02, 4.03, and 4.04 of the General Conditions. Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to a Hazardous Environmental Condition at the site, if any, and possible changes in the Contract Documents due to any Hazardous Environmental Condition uncovered or revealed at the site which was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work appear in paragraph 4.06 of the General Conditions.
- 4.7 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article 4, that without exception the bid is premised upon performing and furnishing the Work required by the Bidding Documents and applying any specific means, methods, techniques, sequences, and procedures of construction that may be shown or indicated or expressly required by the Bidding Documents, that Bidder has given OWNER written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents and the written resolutions thereof by ENGINEER are acceptable to Bidder, and that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and finishing the Work.

ARTICLE 5 PRE-BID CONFERENCE

5.1 A pre-bid conference is not mandatory for this work.

ARTICLE 6 SITE AND OTHER AREAS

6.1 The Site is identified in the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by CONTRACTOR. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by OWNER unless otherwise provided in the Bidding Documents.

ARTICLE 7 INTERPRETATIONS AND ADDENDA

- 7.1 All questions about the meaning or intent of the Bidding Documents shall be submitted to OWNER (Town of Truro, Attn: Jarrod Cabral- Director of Public Works, 24 Town Hall Road, Truro, MA 02666, email: jcabral@truro-ma.gov) in writing by 2:00 PM on June 9, 2025. Interpretations or clarifications considered necessary by OWNER in response to such questions will be issued by Addenda emailed to all parties recorded by OWNER as having received the Bidding Documents not later than two days prior to the date fixed for the opening of Bids. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
- 7.2 Addenda may be issued to clarify, correct or change the Bidding Documents. Such Addenda, if any, will be issued in the manner and within the time period stated in paragraph 7.1.
- 7.3 The Bidder must acknowledge receipt of each Addendum, if any, in the space provided on the Bid Form.

ARTICLE 8 BID SECURITY

- 8.1 Bids must be accompanied by Bid Security in an amount of 5% of the Bidder's maximum Bid price and in the form of cash, a certified check, treasurer's check or cashier's check issued by a responsible bank or trust company or a bid bond payable to OWNER
- 8.2 All Bid Securities of General Bidders, except those under consideration by OWNER, will be returned within 5 days, excluding Saturdays, Sundays and legal holidays, after the

opening of General Bids. Other Bid Securities will be returned upon the execution and delivery of the Agreement. The Bid Security of the Successful Bidder will be retained until such bidder has executed the Agreement and furnished the required contract security, whereupon the bid security shall be returned. If the Successful Bidder fails to execute and deliver the Agreement and furnish the required contract security within 5 days after the Notice of Award, OWNER may annul the Notice of Award and the Bid Security of that Bidder will be forfeited to OWNER as liquidated damages for such failure.

ARTICLE 9 CONTRACT TIME

- 9.1 The number of days within which, or the dates by which, the Work is to be:
 - A. substantially completed, and/or
 - B. completed and ready for final payment are set forth in the Agreement.

ARTICLE 10 LIQUIDATED DAMAGES

10.1 Provisions for liquidated damages, if any, are set forth in the Agreement.

ARTICLE 11 SUBSTITUTE AND "OR EQUAL" ITEMS

11.1 The Contract, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration of possible substitute or "or equal" items. Whenever it is specified or described in the Bidding Documents that a substitute or "or equal" item of material or equipment may be furnished or used by CONTRACTOR if acceptable to ENGINEER, application for such acceptance will not be considered by ENGINEER until after the effective date of the Agreement. The procedure for submission of any such application by CONTRACTOR and consideration by ENGINEER is set forth in the General Conditions and may be supplemented in the General Requirements.

ARTICLE 12 PREPARATION OF BID

- 12.1 A Bid must be made on the Bid Form included with the Project Manual. The Bid Form shall not be altered in any way. Each copy of the Bidding Documents contains a separate, unbound copy of the Bid Form to be used for submittal.
- 12.2 The Bid Form must be completed. Blank spaces in the Bid Form must be filled in correctly where indicated, and the Bidder must state, both in words and numerals, the prices for which he proposes to do each and every item of Work. Ditto marks shall not be used.
- 12.3 A Bidder shall execute his Bid as stated below.
 - A. A Bid by an individual shall show his name and official address.
 - B. A Bid by a partnership must be executed in the partnership name and signed by a partner accompanied by evidence of authority to sign. His title must appear under this signature and the official address of the partnership shall be shown.
 - C. A Bid by a corporation must be executed in the corporate name by an officer of the corporation and must be accompanied by a certified copy of a resolution of the board of directors authorizing the person signing the Bid to do so on behalf of the corporation. The corporate seal shall be affixed and attested by the secretary. The state of incorporation and the official corporate address shall be shown.
 - D. All names must be printed below the signature.

- 12.4 The Bid shall contain an acknowledgment of the receipt of all Addenda in the space provided on the Bid Form.
- 12.5 The address and telephone number to where communications regarding the Bid are to be directed shall be shown.
- 12.6 The following listed documents shall be submitted in addition to the Bid Form:
 - A. Bid Security
- 12.7 In order to be considered for selection, the Bidder must submit a complete bid package in accordance with these Bidding Documents. Partial Bids will not be accepted.
- 12.8 Any deviations in completion of the Bid Form and accompanying documents from the instructions provided in this Article 12 may be cause for rejection of the Bid.

ARTICLE 13 BASIS OF BID

13.1 The Total Contract Base Bid Price shall include one lump sum bid price associated with the construction of the public access structure. The Bid price shall include such amounts as the Bidder deems proper for overhead and profit on account of cash allowances, if any, named in the Contract Documents as provided in paragraph 11.02 of the General Conditions.

ARTICLE 14 SUBMITTAL OF BID

14.1 A Bid shall be submitted no later than the date and time prescribed and at the place indicated in the Advertisement for Bids and shall be enclosed in a sealed envelope plainly marked with the Project title, the name and address of Bidder, and shall be accompanied by the Bid Security and other required documents. If a Bid is sent by mail or other delivery system, the sealed envelope containing the Bid shall be enclosed in a separate envelope plainly marked on the outside with the notation "BID ENCLOSED". A Bid either mailed or hand delivered shall be addressed to: Town of Truro, Attn: Jarrod Cabral – Director of Public Works, 24 Town Hall Road, Truro, MA 02666.

ARTICLE 15 MODIFICATION OR WITHDRAWAL OF BID

- 15.1 Withdrawal Prior to Bid Opening
 - A. A Bidder may withdraw his Bid before the time fixed for the opening of Bids by communicating his purpose in writing to OWNER. Upon receipt of such written notice, the unopened Bid will be returned to the Bidder.
- 15.2 Modification Prior to Bid Opening
 - A. If a Bidder wishes to modify his Bid, he must withdraw his initial Bid in the manner specified in paragraph 15.1.A and submit a new Bid.

ARTICLE 16 OPENING OF BIDS

- 16.1 Bids will be opened as indicated in the Advertisement for Bids and publicly read aloud.
- 16.2 In order to be considered for selection, Bids must arrive at the designated location on or before the date and time specified in the Advertisement for Bids. Bidders mailing their Bids should allow for normal mail delivery time to ensure timely receipt of their Bids by OWNER.
- 16.3 Bids received by mail or otherwise after the time specified for the opening of Bids will not

be accepted and will be returned to the Bidder unopened.

16.4 No responsibility will attach to OWNER, its employees or the ENGINEER for premature opening of a Bid not properly addressed and identified in accordance with the Bidding Documents.

ARTICLE 17 DISQUALIFICATION OF BIDDERS

17.1 More than one Bid for the same Work from an individual, or a firm, partnership, corporation or an association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one Bid for the Work may be cause for disqualification of that Bidder and the rejection of all Bids in which that Bidder is interested.

ARTICLE 18 BIDS TO REMAIN OPEN

18.1 All Bids will remain subject to acceptance for the period of time stated in the Bid Form, but OWNER may, in its sole discretion, release any Bid and return the Bid Security prior to the end of this period.

ARTICLE 19 AWARD OF CONTRACT

- 19.1 OWNER reserves the right to reject any and all Bids, to waive any and all informalities, and the right to disregard all nonconforming, nonresponsive or conditional Bids.
- 19.2 OWNER reserves the right to reject any Bid not accompanied by specified documentation and Bid Security.
- 19.3 OWNER reserves the right to reject any Bid if it shows any omissions, alterations of form, additions not called for, conditions or qualifications, or irregularities of any kind.
- 19.4 OWNER reserves the right to reject any Bid that, in his sole discretion, is considered to be unbalanced or unreasonable as to the amount bid for any lump sum or unit price item.
- 19.5 In evaluating Bids, discrepancies between words and figures will be resolved in favor of words. Discrepancies in the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.
- 19.6 In evaluating Bids, OWNER will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.
- 19.7 In evaluating Bidders, OWNER will consider the qualifications of Bidders and may consider the qualifications and experience of Subcontractors, Suppliers, and other individuals or entities proposed for those portions of the Work for which the identity of Subcontractors, Suppliers, and other individuals or entities must be submitted as provided in the Supplementary Conditions.
- 19.8 OWNER may conduct such investigations as OWNER deems necessary to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, individuals, or entities to perform the Work in accordance with the Contract Documents.
- 19.9 If a contract is to be awarded, it will be awarded to the lowest responsive and responsible Bidder who has neither been disqualified nor rejected pursuant to Article 17 or this Article

19.

19.10 For the determination of the apparent low Bidder, Bids will be compared on the basis of the Contract Base Bid Price.

19.11 Contents of the Bid of the Successful Bidder will become part of any contract awarded.

ARTICLE 20 CONTRACT SECURITIES

- 20.1 Performance and Labor and Materials (Payment) bonds shall be furnished by the successful Bidder. The amounts for Performance and Payment Bonds are 100%. Performance and Payment Bonds submitted shall be posted by a recognized surety company having a place of business in the Commonwealth of Massachusetts. All Performance and Payment Bonds signed by an agent must be accompanied by a certified copy of the authority to act. Additional requirements may be stated in the General or Supplementary Conditions.
- 20.2 The Successful Bidder shall within 5 days from the date of the Notice of Award deliver to OWNER and ENGINEER, for review and approval, the Performance Bond and the Payment Bond he proposes to furnish at the time of the execution of the Agreement.
- 20.3 When the Successful Bidder delivers the executed Agreement to OWNER, the Agreement shall be accompanied by the required contract securities.

ARTICLE 21 CONTRACT INSURANCE

21.1 The requirements for insurance to be provided by the Successful Bidder are stated in Article 5 of the General Conditions and in the Supplementary Conditions.

ARTICLE 22 EXECUTION OF AGREEMENT

22.1 When OWNER gives a Notice of Award to the Successful Bidder, it shall be accompanied by the required number of unsigned counterparts of the Agreement with the other Contract Documents which are identified in the Agreement as attached thereto. Within 15 days thereafter, Successful Bidder shall sign and deliver the required number of counterparts of the Agreement and attached documents to OWNER. Within ten days thereafter, OWNER shall deliver one fully signed counterpart to Successful Bidder with a complete set of the Drawings with appropriate identification.

ARTICLE 23 SALES TAXES

23.1 All materials provided under this Contract are exempt from the Sales and Use Taxes of the Commonwealth of Massachusetts. The tax exemption number will be provided to the Successful Bidder.

ARTICLE 24 MASSACHUSETTS WAGE RATES

24.1 Minimum Wage Rates as determined by the Commissioner of Department of Workforce Development under the provision of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H, as amended, apply to this project. It is the responsibility of the contractor, before bid opening, to request if necessary, any additional information on the Minimum Wage Rates for those trades people who may be employed for the proposed work under this contract. The Wage Rate Determination is included in Part II of the Supplementary Conditions.

24.2 It is the responsibility of the Bidder before bid opening to request, if necessary, any additional information on Minimum Wage Rates for those trades-people who are not covered by the applicable Wage Rate Determination, but who may be employed for the proposed Work under this Contract.

ARTICLE 25 MASSACHUSETTS REQUIREMENTS

- 25.1 Applicable provisions of Massachusetts General Laws and Regulations and/or the United States Code and Code of Federal Regulations govern this Contract and any provision in violation of the foregoing shall be deemed null, void, and of no effect. Where conflict between Code of Federal Regulations and State Laws and Regulations exist, the more stringent requirement shall apply.
- 25.2 The Contractor guarantees that the Work and Services to be performed under the Contract, and all workmanship, materials, and equipment performed, furnished, used, or installed in the construction of the same shall be free from defects and flaws, and shall be performed and furnished in strict accordance with the Drawings, Specifications, and other Contract documents, that the strength of all parts of all manufactured equipment shall be adequate and as specified and that the performance test requirements of the Contract shall be fulfilled. This guarantee shall be for a period of one year from after the date of completion and acceptance of the Work as stated in the final estimate. If part of the Work is accepted in accordance with that subsection of the Agreement titled "Partial Acceptance", the guarantee for that part of the Work shall be for a period of one year from the date of such fixed acceptance.

If at any time within the said period of guarantee any part of the Work requires repairing, correction, or replacement, the Owner may notify the Contractor in writing to make the required repairs, correction, or replacements. If the Contractor neglects to commence making such repairs, corrections, or replacements to the satisfaction if the Owner within seven days from the date of receipt of such notice, or having commenced fails to prosecute such Work with diligence, the Owner may employ other persons to make said repairs, correction, or replacements, and charge the costs, including compensation for additional professional services, to the Contractor.

25.3 This project is subject to the Safety and Health Regulations of the U.S. Department of Labor set forth in Title 29 CFR, Part 1926 and to all subsequent amendments, and to the Massachusetts Department of Labor and Industries, Division of Industrial Safety 'Rules and Regulations for the Prevention of Accidents in Construction Operations' (Chapter 454 CMR 10.00 et seq.). Contractors shall be familiar with the requirements of these regulations.

END OF SECTION

SECTION 00300

BID FORM

CONTRACT IDENTIFICATION:

Great Hollow Beach Access Improvements Truro, MA

ARTICLE 1 – BID RECIPIENT

1.1 This Bid shall be submitted to:

Truro Town Hall Attn: Jarrod Cabral – Director of Public Works 24 Town Hall Road Truro, Ma

1.2 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Town of Truro in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER'S ACKNOWLEDGEMENTS

2.1 Bidder accepts all of the terms and conditions of the Invitation to Bid, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 14 calendar days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of the Town of Truro.

ARTICLE 3 – BIDDER'S REPRESENTATIONS

- 3.1 In submitting this Bid, Bidder represents that:
 - A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

Addendum No.	Addendum Date

B. Bidder has examined the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work. Bidder is familiar with and is satisfied as to all federal, State and local Laws and Regulations that may affect cost, progress and performance of the Work.

- C. Bidder has carefully studied all:
 - 1. Reports of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface structures.
- D. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- E. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- F. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- G. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- H. Bidder will submit written evidence of its authority to do business in the state where the Project is located not later than the date of its execution of the Agreement.

ARTICLE 4 – FURTHER REPRESENTATIONS

- 4.1 Bidder further represents that:
 - A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation;
 - B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
 - C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
 - D. Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the Town of Truro.

ARTICLE 5 – BASIS OF BID

- 5.1 Bidder will complete the Work in accordance with the Contract Documents for the following prices as selected by the Owner:
 - A. The Total Contract Price shall be awarded as the Base Bid only.

TRURO, MASSACHUSETTS GREAT HOLLOW BEACH ACCESS IMPROVEMENTS

BASE BID

	(use wo	ords)		(\$)
TOTA	L OF BID				
		Lump Sum	\$	\$	<u> </u>
1	1 L.S.	Public Access Structure			
Item <u>No.</u>	Estimated Quantity	Item Description	Unit Price <u>In Figures</u>	Amount <u>In Figures</u>	

The undersigned agrees that extra work, if any, will be performed in accordance with Article 10 of the Conditions of the Contract and will be paid for in accordance with Article 11 of the Conditions of the Contract.

The bidding and award of the Contract shall be in full compliance with M.G.L. Chapter 30, Section 39M.

The undersigned must furnish a 100 percent Performance Bond and a 100 percent Payment Bond with a surety company acceptable to the OWNER.

The above prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance and incidentals required to complete the Work.

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

The undersigned hereby certifies that he/she is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work.

The undersigned bidder hereby certifies he/she will comply with the minority workforce percentage ratio and specific affirmative action steps contained in the EEO/AA provisions of this Contract, including compliance with the Minority/Woman Business Enterprise as required under these contract provisions. The Contractor receiving the award of the contract shall be required to obtain from each of its subcontractors a copy of the certification by said subcontractor, regardless of tier, that it will comply with the minority workforce ratio and specific affirmative action steps contained in these EEO/AA contract provisions and submit it to the contracting agency prior to the award of such subcontract.

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

The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section 29F of Chapter 29, or any other applicable debarment provisions of any other chapter of the General Laws or any mile or requisition promulgated hereunder.

Social Security Number or Federal	Signature of Individual or Corporate Name
Identification Number	
	By:
	Corporate Officer (if applicable)
Notice of acceptance should be mailed, or delive	ered to the following:
	(Name)
	By:
	(Title)
	Business Address
	City and State

The bidder shall complete the section below that is applicable to their type of business:

AN INDIVIDUAL					
Name (typed or printed):					
By:					
By:(SEAL)				_	
(Individual's signature))				
Doing business as:					
A PARTNERSHIP					
Partnership Name:(SEAL)					-
By:					
By:(Signature of general partner attach evidence					
Name (typed or printed):					
A CORPORATION					
Corporation Name:(SEAL)					-
State of Incorporation:	ability):				
By:(Signature attach evidence of authority to sign)					
(Signature attach evidence of authority to sign)					
Name (typed or printed):					
Title					
Title:(CORPORATE SEAL)					
Attest					
(Signature of Corporate Secretary)					
Date of Qualification to do business in	is	s	/	/	
A JOINT VENTURE					
Name of Joint Venture:				_	
First Joint Venturer Name:(SEAL)					-
Ву:					
(Signature of first joint venture partner attach e		ıthorit	ty to sig	gn)	

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FUSS & O'NEILL, INC. GREAT HOLLOW BEACH ACCESS IMPROVMENTS TRURO, MA

Name (typed or printed):	
Title:	
Second Joint Venturer Name:(SEAL)	
By:	
(Signature of first joint venture partner	attach evidence of authority to sign)
Name (typed or printed):	
Title:	
and corporation that is a party to the joint above.) Bidder's Business Address:	ner of signing for each individual, partnership, eventure should be in the manner indicated
Phone No.:	FAX No.:
E-mail:	FAX No.:
SUBMITTED ON	<u>,</u> 20 <u> </u>
State Contractor License No.	<u>.</u>

BIDDERS REFERENCE FORM				
Bidders Name:				
Project Title: Great Hollow Beach Access Improvements				
The bidder must provide three (3) references for projects entail with helical piles of similar size and scope performed & completione project of each type shall be provided.				
(1) Project Name:	Contact:			
Address:	Phone: ()		
Description and date(s) of work:				
(2) Project Name:				
Address:	Phone: ()		
Description and date(s) of work:				
(3) Project Name:	 _ Contact:			
Address:	Phone: ()		
Description and date(s) of work:				

References will be contacted to confirm the bidder's skills, abilities and qualifications to faithfully perform the work specified. The Authority reserves the right to contact references not listed above. The Bidder will be given the opportunity to explain any unfavorable references received from such outreach.

END OF SECTION

SECTION 00431

BID BOND

BIDD	ER (Name and Address):	
DIDD	EX (Ivanic and Address).	
SURE	TY (Name and Address of Principal Place of Business):	
OWN	ER (Name and Address):	
DID		
BID	Bid Due Date: Project (Brief Description Including Location): Construction of public	c heach access structure at
	public parking facility on Great Hollow Beach Road in Truro, MA	e beach access structure at
BONI)	
	Number:	
Penal	(Not later than Bid due date): sum	
	(Words)	(Figures)
-	and Bidder, intending to be legally bound hereby, subject to the terms p	
	, do each cause this Bid Bond to be duly executed on its behalf by its aut entative.	chorized officer, agent, or

BID BOND 00431-1

SIDDER	SURETY
Bidder's Name and Corporate Seal	Surety's Name and Corporate Seal (Seal)
By: Signature and Title	By: Signature and Title (Attach Power of Attorney)
Attest: Signature and Title	Attest: Signature and Title

OT TO THE T

Note: Above addresses are to be used for giving required notice.

- 1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Surety's liability.
- Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
- 3. This obligation shall be null and void if:
 - 3.1. Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
 - 3.2. All Bids are rejected by Owner, or
 - 3.3. Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
- 4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
- 5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 150 days from Bid due date without Surety's written consent.
- 6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.

BID BOND 00431-2

- 7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
- 8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
- 9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
- 10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
- 11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

END OF SECTION

BID BOND 00431-3

CERTIFICATE of NON-COLLUSION AND TAX COMPLIANCE

Pursuant to MGL Chapter 62C, Section 49A, I certify under the penalties of perjury that I, to the best of my knowledge and belief, have complied with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

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

Company:	-
Address:	-
Signature of Individual Signing	
Bid, or Corporate Officer:	
Telephone Number:	
Social Security Number	
Or Federal Identification Number:	
Date:	

Any person or corporation which fails to execute this document will be considered a non-responsive bidder and will be rejected pursuant to MGL Chapter 30, 39M.

AGREEMENT - 00500 BETWEEN OWNER AND CONTRACTOR FOR CONSTRUCTION CONTRACT

THIS AGREEMENT is by and between

	Town of Truro, Massachusetts – 24 Town Hall Road, Truro, MA 02666
	(Owner) and
	(Contractor).
Date:	
Owner and Co	ntractor, in consideration of the mutual covenants set forth herein, agree as follows:

ARTICLE 1 - WORK

1.1 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work generally described as follows: **Great Hollow Beach Access Improvements – April 2025**

ARTICLE 2 – THE PROJECT

1.1 The Project, of which the Work under the Contract Documents is a part, is described by the following activities:

Furnishing and installing new public access structure, restoration areas, including erosion and sedimentation controls, dust and traffic control, stabilization and restoration of areas disturbed by construction and as depicted on the Drawings and included in the Specifications and/or as directed by the Engineer.

ARTICLE 3 - ENGINEER

2.1 The Project has been designed by Fuss & O'Neill, Inc., who is to act as Owner's representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

ARTICLE 4 - CONTRACT TIMES

- 4.1 Time of the Essence
 - A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.
- 4.2 Days to Achieve Substantial Completion and Final Payment
 - A. The Work will be substantially completed within 80 days after the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions within 10 days after substantial completion.
- 4.3 Liquidated Damages

- A. Contractor and Owner recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not completed within the times specified in Paragraph 3.2 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty),
 - 1. Contractor shall pay Owner \$1,500 for each day that expires after the time specified in Paragraph 3.2 above for Substantial Completion until the Work is substantially complete.
 - 2. After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by Owner, Contractor shall pay Owner \$1,000 for each day that expires after the time specified in Paragraph 3.2 above for completion and readiness for final payment until the Work is completed and ready for final payment.
 - 3. Liquidated damages for failing to timely attain Substantial Completion and final completion are not additive and will not be imposed concurrently.

ARTICLE 5 - CONTRACT PRICE

5.1 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents and at the unit pricing of the bid. The contract shall not exceed \$______ without a contract amendment, for all Work, at the prices stated in Contractor's Bid Form, attached to this Agreement.

ARTICLE 6 - PAYMENT PROCEDURES

- 6.1 Submittal and Processing of Payments
 - A. Contractor shall submit Applications for Payment in accordance with Article 15 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.
- 6.2 Progress Payments; Retainage
 - A. Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment within 30 days of receipt of the payment requisition during performance of the Work as provided in Paragraphs 5.2.A.1 and 5.2.A.2 below. All such payments will be measured by the schedule of values established as provided in Paragraph 2.07.A of the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the General Requirements:
 - 1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Engineer may determine or Owner may withhold, including but not limited to liquidated damages, in accordance with Paragraph 14.02 of the General Conditions:
 - a. 95 percent of Work completed (with the balance being retainage). If the Work has been 50 percent completed as determined by Engineer, and if the character and progress of the Work have been satisfactory to Owner and Engineer, Owner, on recommendation of Engineer, may determine that as long as the character and progress of the Work remain satisfactory to them, there will be no additional retainage; and

- b. <u>50</u> percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).
- 2. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to 100 percent of the Work completed, less such amounts as Engineer shall determine in accordance with Paragraph 14.02.B.5 of the General Conditions and less 120 percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the tentative list of items to be completed or corrected attached to the certificate of Substantial Completion.

6.3 Final Payment

A. Upon final completion and acceptance of the Work in accordance with Paragraph 14.07 of the General Conditions, Owner shall pay the remainder of the Contract Price as recommended by Engineer as provided in said Paragraph 14.07 of the General Conditions.

ARTICLE 7 – CONTRACTOR'S REPRESENTATIONS

- 7.1 In order to induce Owner to enter into this Agreement Contractor makes the following representations:
 - A. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.
 - A. Contractor has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 - C. Contractor is familiar with and is satisfied as to all federal, State, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
 - D. Contractor has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the Site and all contract drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in Paragraph 4.02 of the General Conditions.
 - E. Contractor has obtained and carefully studied (or assumes responsibility for doing so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents, and safety precautions and programs incident thereto.
 - F. Contractor does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.
 - G. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
 - H. Contractor has correlated the information known to Contractor, information and observations obtained from visits to the Site, reports and contract drawings identified in the Contract Documents, and all additional

examinations, investigations, explorations, tests, studies, and data with the Contract Documents.

- I. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
- J. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- K. Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the Contract Times.

ARTICLE 8 - CONTRACT DOCUMENTS

8.1 Contents

- A. The Contract Documents consist of the following:
 - 1. This Agreement (pages <u>1</u> to <u>6</u>, inclusive).
 - 2. Performance bond, EJCDC document
 - 3. Payment bond, EJCDC document
 - 4. General Conditions, EJCDC document
 - 5. Supplementary Conditions, EJCDC document
 - 6. Specifications as listed in the Table of Contents of the Project Manual.
 - 7. Contract Drawings consisting of the sheets listed in the List of Contract Drawings of this Project Manual.
 - 8. Addenda (numbers _____ to ____, inclusive).
 - 9. Exhibits to this Agreement (enumerated as follows):
 - a. Exhibits listed in the Table of Contents of the Project Manual
 - b. Contractor's Bid (pages <u>00300-1</u> to <u>00300-9</u>, inclusive).
 - c. Documentation submitted by Contractor prior to Notice of Award
 - d. Certificate of Insurance
 - 10. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
 - a. Notice to Proceed.
 - b. Work Change Directives.

- c. Change Order(s).
- d. Field Orders
- B. The documents listed in Paragraph 8.1.A above are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above in this Article 8.
- D. The Contract Documents may only be amended, modified, or supplemented as provided in the General Conditions.

ARTICLE 9 - MISCELLANEOUS

- 9.1 Terms
 - A. Terms used in this Agreement will have the meanings stated in the General Conditions and the Supplementary Conditions.
- 9.2 Assignment of Contract
 - A. No assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.
- 9.3 Successors and Assigns
 - A. Owner and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.
- 9.4 Severability
 - A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

FUSS & O'NEILL, INC. 20210668.A10

GREAT HOLLOW BEACH ACCESS IMPROVEMENTS TRURO, MA

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement in duplicate. One counterpart each has been delivered to Owner and Contractor. All portions of the Contract Documents have been signed or identified by Owner and Contractor or on their behalf.

This Agreement will be effective on,	(which is the Effective Date of the Agreement).
OWNER:	CONTRACTOR:
Town of Truro	
Ву:	Ву:
Title:	Title:
[CORPORATE SEAL]	[CORPORATE SEAL]
Attest:	Attest:
Title:	Title:
Address for giving notices:	Address for giving notices:
(If Owner is a corporation, attach evidence of authority to sign. If Owner is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of Owner-Contractor	License No.: (Where applicable)
Agreement.)	Agent for service or process:
	(If Contractor is a corporation or a partnership, attach evidence of authority to sign.)



PERFORMANCE BOND

CONTRACTOR (name and address):	SURETY (name and address of principal place of business):
OWNER (name and address):	
CONSTRUCTION CONTRACT Effective Date of the Agreement: Amount: Description (name and location):	
BOND Bond Number: Date (not earlier than the Effective Date of the Agreement of Amount: Modifications to this Bond Form: None	f the Construction Contract): See Paragraph 16
Surety and Contractor, intending to be legally bound he this Performance Bond to be duly executed by an auth CONTRACTOR AS PRINCIPAL	ereby, subject to the terms set forth below, do each cause orized officer, agent, or representative. SURETY
(seal) Contractor's Name and Corporate Seal	(seal) Surety's Name and Corporate Seal
By:Signature	Signature (attach power of attorney)
Print Name	Print Name
Title	Title
Attest:	Attest:
Signature	Signature
Title	Title
Notes: (1) Provide supplemental execution by any additional Contractor, Surety, Owner, or other party shall be considered.	al parties, such as joint venturers. (2) Any singular reference to ed plural where applicable.
·	Performance Bond Engineers, American Council of Engineering Companies,

- 1. The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.
- 2. If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Paragraph 3.
- 3. If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after:
 - The Owner first provides notice to the Contractor and 3.1 the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor, and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Paragraph 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor, and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default;
 - 3.2 The Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and
 - 3.3 The Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.
- 4. Failure on the part of the Owner to comply with the notice requirement in Paragraph 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.
- 5. When the Owner has satisfied the conditions of Paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:
 - 5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;
 - 5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;
 - 5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owners concurrence,

- to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Paragraph 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or
- 5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and with reasonable promptness under the circumstances:
 - 5.4.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or
 - 5.4.2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.
- 6. If the Surety does not proceed as provided in Paragraph 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Paragraph 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.
- 7. If the Surety elects to act under Paragraph 5.1, 5.2, or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication for:
 - 7.1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;
 - 7.2 additional legal, design professional, and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 5; and
 - 7.3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.
- 8. If the Surety elects to act under Paragraph 5.1, 5.3, or 5.4, the Surety's liability is limited to the amount of this Bond.
- 9. The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors, and assigns.

- 10. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders, and other obligations.
- 11. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum periods of limitations available to sureties as a defense in the jurisdiction of the suit shall be applicable.
- 12. Notice to the Surety, the Owner, or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.
- 13. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

14. Definitions

14.1 Balance of the Contract Price: The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made including allowance for the Contractor for any amounts received or to be received by the Owner in settlement of insurance or other claims

for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

- 14.2 Construction Contract: The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.
- 14.3 Contractor Default: Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.
- 14.4 Owner Default: Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.
- 14.5 Contract Documents: All the documents that comprise the agreement between the Owner and Contractor.
- 15. If this Bond is issued for an agreement between a contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.
- 16. Modifications to this Bond are as follows:



PAYMENT BOND

CONTRACTOR (name and address):	SURETY (name and address of principal place of business):
OWNER (name and address):	
CONSTRUCTION CONTRACT Effective Date of the Agreement: Amount: Description (name and location):	
BOND Bond Number: Date (not earlier than the Effective Date of the Agreement of Amount: Modifications to this Bond Form: None	f the Construction Contract): See Paragraph 18
Surety and Contractor, intending to be legally bound he this Payment Bond to be duly executed by an authorized of the CONTRACTOR AS PRINCIPAL	ereby, subject to the terms set forth below, do each cause ed officer, agent, or representative. SURETY
(seal)	(seal)
Contractor's Name and Corporate Seal	Surety's Name and Corporate Seal
Ву:	Ву:
Signature	Signature (attach power of attorney)
Print Name	Print Name
Title	Title
Attest:Signature	Title Attest:Signature
Attest:	Attest:

- The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner to pay for labor, materials, and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.
- 2. If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies, and holds harmless the Owner from claims, demands, liens, or suits by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.
- 3. If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Paragraph 13) of claims, demands, liens, or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, and tendered defense of such claims, demands, liens, or suits to the Contractor and the Surety.
- 4. When the Owner has satisfied the conditions in Paragraph 3, the Surety shall promptly and at the Surety's expense defend, indemnify, and hold harmless the Owner against a duly tendered claim, demand, lien, or suit.
- 5. The Surety's obligations to a Claimant under this Bond shall arise after the following:
 - 5.1 Claimants who do not have a direct contract with the Contractor,
 - 5.1.1 have furnished a written notice of nonpayment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and
 - 5.1.2 have sent a Claim to the Surety (at the address described in Paragraph 13).
 - 5.2 Claimants who are employed by or have a direct contract with the Contractor have sent a Claim to the Surety (at the address described in Paragraph 13).

- 6. If a notice of non-payment required by Paragraph 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Paragraph 5.1.1.
- 7. When a Claimant has satisfied the conditions of Paragraph 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:
 - 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and
 - 7.2 Pay or arrange for payment of any undisputed amounts.
 - 7.3 The Surety's failure to discharge its obligations under Paragraph 7.1 or 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Paragraph 7.1 or 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.
- The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Paragraph 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.
- 9. Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.
- 10. The Surety shall not be liable to the Owner, Claimants, or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to or give notice on behalf of Claimants, or otherwise have any obligations to Claimants under this Bond.
- 11. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders, and other obligations.

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

16. **Definitions**

- 16.1 **Claim:** A written statement by the Claimant including at a minimum:
 - 1. The name of the Claimant;
 - The name of the person for whom the labor was done, or materials or equipment furnished:
 - 3. A copy of the agreement or purchase order pursuant to which labor, materials, or equipment was furnished for use in the performance of the Construction Contract;
 - A brief description of the labor, materials, or equipment furnished;
 - 5. The date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
 - The total amount earned by the Claimant for labor, materials, or equipment furnished as of the date of the Claim:
 - 7. The total amount of previous payments received by the Claimant; and

- 8. The total amount due and unpaid to the Claimant for labor, materials, or equipment furnished as of the date of the Claim.
- Claimant: An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials, or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms of "labor, materials, or equipment" that part of the water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.
- 16.3 Construction Contract: The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.
- 16.4 Owner Default: Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.
- 16.5 Contract Documents: All the documents that comprise the agreement between the Owner and Contractor.
- 17. If this Bond is issued for an agreement between a contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.
- 18. Modifications to this Bond are as follows:

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 Laws and Regulations.

STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared by



Issued and Published Jointly by







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STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

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ARTICLE 1 – DEFINITIONS AND TERMINOLOGY

1.01 Defined Terms

- A. Wherever used in the Bidding Requirements or Contract Documents, a term printed with initial capital letters, including the term's singular and plural forms, will have the meaning indicated in the definitions below. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.
 - Addenda—Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.
 - Agreement—The written instrument, executed by Owner and Contractor, that sets
 forth the Contract Price and Contract Times, identifies the parties and the Engineer,
 and designates the specific items that are Contract Documents.
 - 3. Application for Payment—The form acceptable to Engineer which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.
 - 4. *Bid*—The offer of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
 - 5. Bidder—An individual or entity that submits a Bid to Owner.
 - 6. Bidding Documents—The Bidding Requirements, the proposed Contract Documents, and all Addenda.
 - 7. Bidding Requirements—The advertisement or invitation to bid, Instructions to Bidders, Bid Bond or other Bid security, if any, the Bid Form, and the Bid with any attachments.
 - 8. Change Order—A document 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, or other revision to the Contract, issued on or after the Effective Date of the Contract.
 - 9. Change Proposal—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment in Contract Price or Contract Times, or both; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Contract.
 - 10. Claim—(a) A demand or assertion by Owner directly to Contractor, duly submitted in compliance with the procedural requirements set forth herein: seeking an adjustment of Contract Price or Contract Times, or both; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; contesting Engineer's decision regarding a Change Proposal; seeking resolution of a contractual issue that Engineer has declined to address; or seeking other relief with respect to the terms of the Contract; or (b) a demand or assertion by Contractor directly to Owner, duly submitted in compliance with the procedural requirements set forth herein, contesting Engineer's decision regarding a Change Proposal; or seeking resolution of a contractual issue that Engineer

- has declined to address. A demand for money or services by a third party is not a Claim.
- 11. Constituent of Concern—Asbestos, petroleum, radioactive materials, polychlorinated biphenyls (PCBs), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to (a) the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§9601 et seq. ("CERCLA"); (b) the Hazardous Materials Transportation Act, 49 U.S.C. §§5501 et seq.; (c) the Resource Conservation and Recovery Act, 42 U.S.C. §§6901 et seq. ("RCRA"); (d) the Toxic Substances Control Act, 15 U.S.C. §§2601 et seq.; (e) the Clean Water Act, 33 U.S.C. §§1251 et seq.; (f) the Clean Air Act, 42 U.S.C. §§7401 et seq.; or (g) any other federal, state, or local statute, law, rule, regulation, ordinance, resolution, code, order, or decree regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.
- 12. *Contract*—The entire and integrated written contract between the Owner and Contractor concerning the Work.
- 13. *Contract Documents*—Those items so designated in the Agreement, and which together comprise the Contract.
- 14. *Contract Price*—The money that Owner has agreed to pay Contractor for completion of the Work in accordance with the Contract Documents. .
- 15. Contract Times—The number of days or the dates by which Contractor shall: (a) achieve Milestones, if any; (b) achieve Substantial Completion; and (c) complete the Work.
- 16. *Contractor*—The individual or entity with which Owner has contracted for performance of the Work.
- 17. Cost of the Work—See Paragraph 13.01 for definition.
- 18. *Drawings*—The part of the Contract that graphically shows the scope, extent, and character of the Work to be performed by Contractor.
- 19. *Effective Date of the Contract*—The date, indicated in the Agreement, on which the Contract becomes effective.
- 20. Engineer—The individual or entity named as such in the Agreement.
- 21. Field Order—A written order issued by Engineer which requires minor changes in the Work but does not change the Contract Price or the Contract Times.
- 22. Hazardous Environmental Condition—The presence at the Site of Constituents of Concern in such quantities or circumstances that may present a danger to persons or property exposed thereto. The presence at the Site of materials that are necessary for the execution of the Work, or that are to be incorporated in the Work, and that are controlled and contained pursuant to industry practices, Laws and Regulations, and the requirements of the Contract, does not establish a Hazardous Environmental Condition.
- 23. Laws and Regulations; Laws or Regulations—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

- 24. *Liens*—Charges, security interests, or encumbrances upon Contract-related funds, real property, or personal property.
- 25. *Milestone*—A principal event in the performance of the Work that the Contract requires Contractor to achieve by an intermediate completion date or by a time prior to Substantial Completion of all the Work.
- 26. *Notice of Award*—The written notice by Owner to a Bidder of Owner's acceptance of the Bid.
- 27. *Notice to Proceed*—A written notice 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.
- 28. *Owner*—The individual or entity with which Contractor has contracted regarding the Work, and which has agreed to pay Contractor for the performance of the Work, pursuant to the terms of the Contract.
- 29. *Progress Schedule*—A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising the Contractor's plan to accomplish the Work within the Contract Times.
- 30. *Project*—The total undertaking to be accomplished for Owner by engineers, contractors, and others, including planning, study, design, construction, testing, commissioning, and start-up, and of which the Work to be performed under the Contract Documents is a part.
- 31. Project Manual—The written documents prepared for, or made available for, procuring and constructing the Work, including but not limited to the Bidding Documents or other construction procurement documents, geotechnical and existing conditions information, the Agreement, bond forms, General Conditions, Supplementary Conditions, and Specifications. The contents of the Project Manual may be bound in one or more volumes.
- 32. Resident Project Representative—The authorized representative of Engineer assigned to assist Engineer at the Site. As used herein, the term Resident Project Representative or "RPR" includes any assistants or field staff of Resident Project Representative.
- 33. Samples—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.
- 34. Schedule of Submittals—A schedule, prepared and maintained by Contractor, of required submittals and the time requirements for Engineer's review of the submittals and the performance of related construction activities.
- 35. Schedule of Values—A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.
- 36. Shop Drawings—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Contract Documents.

- 37. 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 easements, and such other lands furnished by Owner which are designated for the use of Contractor.
- 38. Specifications—The part of the Contract that consists of written requirements for materials, equipment, systems, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.
- 39. *Subcontractor*—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.
- 40. Substantial Completion—The time at which 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.
- 41. *Successful Bidder*—The Bidder whose Bid the Owner accepts, and to which the Owner makes an award of contract, subject to stated conditions.
- 42. *Supplementary Conditions*—The part of the Contract that amends or supplements these General Conditions.
- 43. Supplier—A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or a Subcontractor.
- 44. Technical Data—Those items expressly identified as Technical Data in the Supplementary Conditions, with respect to either (a) subsurface conditions at the Site, or physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) or (b) Hazardous Environmental Conditions at the Site. If no such express identifications of Technical Data have been made with respect to conditions at the Site, then the data contained in boring logs, recorded measurements of subsurface water levels, laboratory test results, and other factual, objective information regarding conditions at the Site that are set forth in any geotechnical or environmental report prepared for the Project and made available to Contractor are hereby defined as Technical Data with respect to conditions at the Site under Paragraphs 5.03, 5.04, and 5.06.
- 45. 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 but not limited to those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, fiber optic transmissions, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.
- 46. *Unit Price Work*—Work to be paid for on the basis of unit prices.
- 47. Work—The entire construction or the various 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; furnishing, installing, and incorporating all materials and equipment into such construction; and may include related services such as testing, start-up, and commissioning, all as required by the Contract Documents.

48. Work Change Directive—A written directive to Contractor issued on or after the Effective Date of the Contract, signed by Owner and recommended by Engineer, ordering an addition, deletion, or revision in the Work.

1.02 Terminology

- A. The words and terms discussed in the following paragraphs are not defined but, when used in the Bidding Requirements or Contract Documents, have the indicated meaning.
- B. Intent of Certain Terms or Adjectives:
 - 1. The Contract Documents include the terms "as allowed," "as approved," "as ordered," "as directed" or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, 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 exercise of professional judgment, action, or determination will be solely to evaluate, in general, the Work for compliance with the information in the Contract Documents and with the design concept of the 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 is not intended to and 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 Article 10 or any other provision of the Contract Documents.

C. Day:

1. The word "day" means a calendar day of 24 hours measured from midnight to the next midnight.

D. Defective:

- 1. The word "defective," when modifying the word "Work," refers to Work that is unsatisfactory, faulty, or deficient in that it:
 - a. does not conform to the Contract Documents; or
 - b. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or
 - c. 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 15.03 or 15.04).

E. Furnish, Install, Perform, Provide:

- 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" or "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. If the Contract Documents establish an obligation of Contractor with respect to specific services, materials, or equipment, but do not expressly use any of the four words "furnish," "install," "perform," or "provide," then Contractor shall furnish and install said services, materials, or equipment complete and ready for intended use.
- F. Unless stated otherwise in the Contract Documents, words or phrases that 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 and Evidence of Insurance

- A. *Bonds*: When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner such bonds as Contractor may be required to furnish.
- B. Evidence of Contractor's Insurance: When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner, with copies to each named insured and additional insured (as identified in the Supplementary Conditions or elsewhere in the Contract), the certificates and other evidence of insurance required to be provided by Contractor in accordance with Article 6.
- C. Evidence of Owner's Insurance: After receipt of the executed counterparts of the Agreement and all required bonds and insurance documentation, Owner shall promptly deliver to Contractor, with copies to each named insured and additional insured (as identified in the Supplementary Conditions or otherwise), the certificates and other evidence of insurance required to be provided by Owner under Article 6.

2.02 Copies of Documents

- A. Owner shall furnish to Contractor four printed copies of the Contract (including one fully executed counterpart of the Agreement), and one copy in electronic portable document format (PDF). Additional printed copies will be furnished upon request at the cost of reproduction.
- B. Owner shall maintain and safeguard at least one original printed record version of the Contract, including Drawings and Specifications signed and sealed by Engineer and other design professionals. Owner shall make such original printed record version of the Contract available to Contractor for review. Owner may delegate the responsibilities under this provision to Engineer.

2.03 Before Starting Construction

- A. *Preliminary Schedules*: Within 10 days after the Effective Date of the Contract (or as otherwise specifically required by the Contract Documents), Contractor shall submit to Engineer for timely review:
 - a preliminary Progress Schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract;
 - 2. a preliminary Schedule of Submittals; and

3. a preliminary Schedule of Values for all of the Work which includes quantities and prices of items 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 prices will include an appropriate amount of overhead and profit applicable to each item of Work.

2.04 Preconstruction Conference; Designation of Authorized Representatives

- A. Before any Work at the Site is started, a conference attended by Owner, 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 2.03.A, procedures for handling Shop Drawings, Samples, and other submittals, processing Applications for Payment, electronic or digital transmittals, and maintaining required records.
- B. At this conference Owner and Contractor each shall designate, in writing, a specific individual to act as its authorized representative with respect to the services and responsibilities under the Contract. Such individuals shall have the authority to transmit and receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

2.05 Initial Acceptance of Schedules

- A. At least 10 days before submission of the first Application for Payment a conference, attended by Contractor, Engineer, and others as appropriate, will be held to review for acceptability to Engineer as provided below the schedules submitted in accordance with Paragraph 2.03.A. Contractor shall have an additional 10 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.
 - The Progress Schedule will be acceptable to Engineer if it provides an orderly
 progression of the Work to completion within the Contract Times. Such acceptance
 will not impose on Engineer responsibility for the Progress Schedule, for sequencing,
 scheduling, or progress of the Work, nor interfere with or relieve Contractor from
 Contractor's full responsibility therefor.
 - 2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.
 - Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to the component parts of the Work.

2.06 Electronic Transmittals

- A. Except as otherwise stated elsewhere in the Contract, the Owner, Engineer, and Contractor may transmit, and shall accept, Project-related correspondence, text, data, documents, drawings, information, and graphics, including but not limited to Shop Drawings and other submittals, in electronic media or digital format, either directly, or through access to a secure Project website.
- B. If the Contract does not establish protocols for electronic or digital transmittals, then Owner, Engineer, and Contractor shall jointly develop such protocols.
- C. When transmitting items in electronic media or digital format, the transmitting party makes no representations as to long term compatibility, usability, or readability of the items resulting from the recipient's use of software application packages, operating systems, or

computer hardware differing from those used in the drafting or transmittal of the items, or from those established in applicable transmittal protocols.

ARTICLE 3 – DOCUMENTS: INTENT, REQUIREMENTS, REUSE

3.01 Intent

- A. The Contract Documents are complementary; what is required by one is as binding as if required by all.
- B. It is the intent of the Contract Documents to describe a functionally complete project (or part thereof) to be constructed in accordance with the Contract Documents.
- C. Unless otherwise stated in the Contract Documents, if there is a discrepancy between the electronic or digital versions of the Contract Documents (including any printed copies derived from such electronic or digital versions) and the printed record version, the printed record version shall govern.
- D. The Contract supersedes prior negotiations, representations, and agreements, whether written or oral.
- E. Engineer will issue clarifications and interpretations of the Contract Documents as provided herein.

3.02 Reference Standards

- A. Standards Specifications, Codes, Laws and Regulations
 - Reference in the Contract Documents to standard specifications, manuals, reference standards, 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, reference standard, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Contract 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, reference standard, or code, or any instruction of a Supplier, shall be effective to change the duties or responsibilities of Owner, Contractor, or Engineer, or any of their subcontractors, consultants, agents, or employees, from those set forth in the part of the Contract Documents prepared by or for Engineer. No such provision or instruction shall be effective to assign to Owner, Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the part of the Contract Documents prepared by or for Engineer.

3.03 Reporting and Resolving Discrepancies

A. Reporting Discrepancies:

Contractor's Verification of Figures and Field Measurements: Before undertaking each
part of the Work, Contractor shall carefully study the Contract Documents, and check
and verify pertinent figures and dimensions therein, particularly with respect to
applicable field measurements. Contractor shall promptly report in writing to Engineer
any conflict, error, ambiguity, or discrepancy that Contractor discovers, or has actual
knowledge of, and shall not proceed with any Work affected thereby until the conflict,

- error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract Documents issued pursuant to Paragraph 11.01.
- 2. Contractor's Review of Contract Documents: If, before or during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents, or between the Contract Documents and (a) any applicable Law or Regulation, (b) actual field conditions, (c) any standard specification, manual, reference standard, or code, or (d) any instruction of any Supplier, then Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 7.15) until the conflict, error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract Documents issued pursuant to Paragraph 11.01.
- Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor had actual knowledge thereof.

B. Resolving Discrepancies:

- Except as may be otherwise specifically stated in the Contract Documents, the
 provisions of the part of the Contract Documents prepared by or for Engineer shall
 take precedence in resolving any conflict, error, ambiguity, or discrepancy between
 such provisions of the Contract Documents and:
 - a. the provisions of any standard specification, manual, reference standard, or code, or the instruction of any Supplier (whether or not specifically incorporated by reference as a Contract Document); or
 - 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).

3.04 Requirements of the Contract Documents

- A. During the performance of the Work and until final payment, Contractor and Owner shall submit to the Engineer all matters in question concerning the requirements of the Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Contract Documents, as soon as possible after such matters arise. Engineer will be the initial interpreter of the requirements of the Contract Documents, and judge of the acceptability of the Work thereunder.
- B. Engineer will, with reasonable promptness, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Contract Documents. Engineer's written clarification, interpretation, or decision will be final and binding on Contractor, unless it appeals by submitting a Change Proposal, and on Owner, unless it appeals by filing a Claim.
- C. If a submitted matter in question concerns terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work under the Contract Documents, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, then Engineer will promptly give written notice to Owner and Contractor that Engineer is unable to provide a decision or interpretation. If Owner and Contractor are unable to agree on resolution of such a matter in question, either party may pursue resolution as provided in Article 12.

3.05 Reuse of Documents

- A. Contractor and its Subcontractors and Suppliers shall not:
 - have or acquire any title 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 its consultants, including electronic media editions, or reuse any such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaptation by Engineer; or
 - 2. have or acquire any title or ownership rights in any other Contract Documents, reuse any such Contract Documents for any purpose without Owner's express written consent, or violate any copyrights pertaining to such Contract Documents.
- B. The prohibitions of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein shall preclude Contractor from retaining copies of the Contract Documents for record purposes.

ARTICLE 4 – COMMENCEMENT AND PROGRESS OF THE WORK

4.01 Commencement of Contract Times; Notice to Proceed

A. The Contract Times will commence to run on the thirtieth day after the Effective Date of the Contract or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Contract. 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 Contract, whichever date is earlier.

4.02 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 such date.

4.03 Reference Points

A. Owner 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 out the Work, shall protect and preserve the established reference points and property 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 or 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.

4.04 Progress Schedule

- A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.05 as it may be adjusted from time to time as provided below.
 - 1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.05) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times.

- 2. Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements of Article 11.
- B. Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or disagreements with Owner. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, or during any appeal process, except as permitted by Paragraph 16.04, or as Owner and Contractor may otherwise agree in writing.

4.05 Delays in Contractor's Progress

- A. If Owner, Engineer, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the Contract Times and Contract Price. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.
- B. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delay, disruption, or interference caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of a Subcontractor or Supplier shall be deemed to be within the control of Contractor.
- C. If Contractor's performance or progress is delayed, disrupted, or interfered with by unanticipated causes not the fault of and beyond the control of Owner, Contractor, and those for which they are responsible, then Contractor shall be entitled to an equitable adjustment in Contract Times. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times. Such an adjustment shall be Contractor's sole and exclusive remedy for the delays, disruption, and interference described in this paragraph. Causes of delay, disruption, or interference that may give rise to an adjustment in Contract Times under this paragraph include but are not limited to the following:
 - 1. severe and unavoidable natural catastrophes such as fires, floods, epidemics, and earthquakes;
 - 2. abnormal weather conditions;
 - acts or failures to act of utility owners (other than those performing other work at or adjacent to the Site by arrangement with the Owner, as contemplated in Article 8);
 and
 - 4. acts of war or terrorism.
- D. Delays, disruption, and interference to the performance or progress of the Work resulting from the existence of a differing subsurface or physical condition, an Underground Facility that was not shown or indicated by the Contract Documents, or not shown or indicated with reasonable accuracy, and those resulting from Hazardous Environmental Conditions, are governed by Article 5.
- E. Paragraph 8.03 governs delays, disruption, and interference to the performance or progress of the Work resulting from the performance of certain other work at or adjacent to the Site.
- F. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for any delay, disruption, or interference if such delay is concurrent with a delay, disruption, or interference caused by or within the control of Contractor.

G. Contractor must submit any Change Proposal seeking an adjustment in Contract Price or Contract Times under this paragraph within 30 days of the commencement of the delaying, disrupting, or interfering event.

ARTICLE 5 – AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS

5.01 Availability of Lands

- A. Owner shall furnish the Site. Owner shall notify Contractor of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work.
- B. Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which permanent improvements are to be made 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 shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

5.02 Use of Site and Other Areas

- A. Limitation on Use of Site and Other Areas:
 - 1. Contractor shall confine construction equipment, temporary construction facilities, the storage of materials and equipment, and the operations of workers to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and such other adjacent areas with construction equipment or other materials or equipment. Contractor shall assume full responsibility for (a) damage to the Site; (b) damage to any such other adjacent areas used for Contractor's operations; (c) damage to any other adjacent land or areas; and (d) for injuries and losses sustained by the owners or occupants of any such land or areas; provided that such damage or injuries result from the performance of the Work or from other actions or conduct of the Contractor or those for which Contractor is responsible.
 - 2. If a damage or injury claim is made by the owner or occupant of any such land or area because of the performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible, Contractor shall (a) take immediate corrective or remedial action as required by Paragraph 7.12, or otherwise; (b) promptly attempt to settle the claim as to all parties through negotiations with such owner or occupant, or otherwise resolve the claim by arbitration or other dispute resolution proceeding, or at law; and (c) to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against any such claim, and against all 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 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 directly or indirectly, in whole or in part

by, or based upon, Contractor's performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible.

- B. Removal of Debris During Performance of the Work: During the progress of the Work the Contractor shall keep the Site and other adjacent areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, 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 the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site and adjacent areas all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.
- D. Loading of Structures: Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent structures or land to stresses or pressures that will endanger them.

5.03 Subsurface and Physical Conditions

- A. *Reports and Drawings*: The Supplementary Conditions identify:
 - those reports known to Owner of explorations and tests of subsurface conditions at or adjacent to the Site;
 - 2. those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities); and
 - 3. Technical Data contained in such reports and drawings.
- B. Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely upon the accuracy of the Technical Data (as defined in Article 1) contained in any geotechnical or environmental report prepared for the Project and made available to Contractor. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:
 - 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 drawings; or
 - 3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions, or information.

5.04 Differing Subsurface or Physical Conditions

- A. *Notice by Contractor*: If Contractor believes that any subsurface or physical condition that is uncovered or revealed at the Site either:
 - 1. is of such a nature as to establish that any Technical Data on which Contractor is entitled to rely as provided in Paragraph 5.03 is materially inaccurate; or
 - 2. is of such a nature as to require a change in the Drawings or Specifications; or
 - 3. 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 7.15), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except with respect to an emergency) until receipt of a written statement permitting Contractor to do so.

- B. Engineer's Review: After receipt of written notice as required by the preceding paragraph, Engineer will promptly review the subsurface or physical condition in question; determine the necessity of Owner's obtaining additional exploration or tests with respect to the condition; conclude whether the condition falls within any one or more of the differing site condition categories in Paragraph 5.04.A above; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the subsurface or physical condition in question and the need for any change in the Drawings or Specifications; and advise Owner in writing of Engineer's findings, conclusions, and recommendations.
- C. Owner's Statement to Contractor Regarding Site Condition: After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the subsurface or physical condition in question, addressing the resumption of Work in connection with such condition, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations, in whole or in part.
- D. Possible Price and Times Adjustments:
 - 1. Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times, or both, to the extent that the existence of a differing subsurface or physical condition, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:
 - a. such condition must fall within any one or more of the categories described in Paragraph 5.04.A;
 - b. 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 Paragraph 13.03; and,

- c. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.
- 2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times with respect to a subsurface or physical condition if:
 - Contractor knew of the existence of such condition at the time Contractor made a commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract, or otherwise; or
 - the existence of such condition reasonably could have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas expressly required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such commitment; or
 - c. Contractor failed to give the written notice as required by Paragraph 5.04.A.
- 3. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, or both, then any such adjustment shall be set forth in a Change Order.
- 4. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, or both, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the subsurface or physical condition in question.

5.05 Underground Facilities

- A. Contractor's Responsibilities: The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or adjacent 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 do not warrant or guarantee the accuracy or completeness of any such information or data provided by others; and
 - 2. the cost of all of the following will be included in the Contract Price, and Contractor shall have full responsibility for:
 - a. reviewing and checking all information and data regarding existing Underground Facilities at the Site;
 - b. locating all Underground Facilities shown or indicated in the Contract Documents as being at the Site;
 - c. coordination of the Work with the owners (including Owner) of such Underground Facilities, during construction; and
 - d. the safety and protection of all existing Underground Facilities at the Site, and repairing any damage thereto resulting from the Work.
- B. Notice by Contractor: If Contractor believes that an Underground Facility that is uncovered or revealed at the Site was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy, then Contractor shall, promptly after

- becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), identify the owner of such Underground Facility and give written notice to that owner and to Owner and Engineer.
- C. Engineer's Review: Engineer will promptly review the Underground Facility and conclude whether such Underground Facility was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the Underground Facility in question; determine the extent, if any, to which a change is required in the Drawings or Specifications to reflect and document the consequences of the existence or location of the Underground Facility; and advise Owner in writing of Engineer's findings, conclusions, and recommendations. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.
- D. Owner's Statement to Contractor Regarding Underground Facility: After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the Underground Facility in question, addressing the resumption of Work in connection with such Underground Facility, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations in whole or in part.

E. Possible Price and Times Adjustments:

- Contractor shall be entitled to an equitable adjustment in the Contract Price or Contract Times, or both, to the extent that any existing Underground Facility at the Site that was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:
 - Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated the existence or actual location of the Underground Facility in question;
 - b. 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 Paragraph 13.03;
 - Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times; and
 - d. Contractor gave the notice required in Paragraph 5.05.B.
- If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, or both, then any such adjustment shall be set forth in a Change Order.
- 3. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, or both, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the Underground Facility in question.

- A. Reports and Drawings: The Supplementary Conditions identify:
 - 1. those reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site; and
 - 2. Technical Data contained in such reports and drawings.
- B. Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely on the accuracy of the Technical Data (as defined in Article 1) contained in any geotechnical or environmental report prepared for the Project and made available to Contractor. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:
 - 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 drawings; or
 - 3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions or information.
- C. Contractor shall not be responsible for removing or remediating any Hazardous Environmental Condition encountered, uncovered, or revealed at the Site unless such removal or remediation is expressly identified in the Contract Documents to be within the scope of the Work.
- D. Contractor shall be responsible for controlling, containing, and duly removing all Constituents of Concern brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible, and for any associated costs; and for the costs of removing and remediating any Hazardous Environmental Condition created by the presence of any such Constituents of Concern.
- E. If Contractor encounters, uncovers, or reveals a Hazardous Environmental Condition whose removal or remediation is not expressly identified in the Contract Documents as being within the scope of the Work, or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, then Contractor shall immediately: (1) secure or otherwise isolate such condition; (2) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 7.15); and (3) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any. Promptly after consulting with Engineer, Owner shall take such actions as are necessary to permit Owner to timely obtain required permits and provide Contractor the written notice required by Paragraph 5.06.F. If Contractor or anyone for whom Contractor is responsible created the Hazardous Environmental Condition, and impose a set-off against payments to account for the associated costs.

- F. Contractor shall not resume Work in connection with such Hazardous Environmental Condition or in any affected area until after Owner has obtained any required permits related thereto, and delivered written notice to Contractor either (1) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work, or (2) specifying any special conditions under which such Work may be resumed safely.
- G. 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, then within 30 days of Owner's written notice regarding the resumption of Work, Contractor may submit a Change Proposal, or Owner may impose a set-off.
- H. If after receipt of such written notice Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work, following the contractual change procedures in Article 11. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 8.
- I. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, 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, 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 (1) was not shown or indicated in the Drawings, Specifications, or other Contract Documents, identified as Technical Data entitled to limited reliance pursuant to Paragraph 5.06.B, or identified in the Contract Documents to be included within the scope of the Work, and (2) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.H shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- J. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, 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, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the failure to control, contain, or remove a Constituent of Concern brought to the Site by Contractor or by anyone for whom Contractor is responsible, or to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.J shall obligate Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- K. The provisions of Paragraphs 5.03, 5.04, and 5.05 do not apply to the presence of Constituents of Concern or to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 6 - BONDS AND INSURANCE

6.01 Performance, Payment, and Other Bonds

- A. Contractor shall furnish a performance bond and a payment bond, each in an amount at least equal to the Contract Price, as security for the faithful performance and payment of all of Contractor's obligations under the Contract. These bonds shall remain in effect until one year after the date when final payment becomes due or until completion of the correction period specified in Paragraph 15.08, whichever is later, except as provided otherwise by Laws or Regulations, the Supplementary Conditions, or other specific provisions of the Contract. Contractor shall also furnish such other bonds as are required by the Supplementary Conditions or other specific provisions of the Contract.
- B. All bonds shall be in the form prescribed by the Contract except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (as amended and supplemented) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. A bond signed by an agent or attorney-in-fact must be accompanied by a certified copy of that individual's authority to bind the surety. The evidence of authority shall show that it is effective on the date the agent or attorney-in-fact signed the accompanying bond.
- C. Contractor shall obtain the required bonds from surety companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue bonds in the required amounts.
- D. If the surety on a bond furnished by Contractor is declared bankrupt or becomes insolvent, or its right to do business is terminated in any state or jurisdiction where any part of the Project is located, or the surety ceases to meet the requirements above, then Contractor shall promptly notify Owner and Engineer and shall, within 20 days after the event giving rise to such notification, provide another bond and surety, both of which shall comply with the bond and surety requirements above.
- E. If Contractor has failed to obtain a required bond, Owner may exclude the Contractor from the Site and exercise Owner's termination rights under Article 16.
- F. Upon request, Owner shall provide a copy of the payment bond to any Subcontractor, Supplier, or other person or entity claiming to have furnished labor or materials used in the performance of the Work.

6.02 Insurance—General Provisions

- A. Owner and Contractor shall obtain and maintain insurance as required in this Article and in the Supplementary Conditions.
- B. All insurance required by the Contract to be purchased and maintained by Owner or Contractor shall be obtained from insurance companies that are duly licensed or authorized, in the state or jurisdiction in which the Project is located, to issue insurance policies for the required limits and coverages. Unless a different standard is indicated in the Supplementary Conditions, all companies that provide insurance policies required under this Contract shall have an A.M. Best rating of A-VII or better.
- C. Contractor shall deliver to Owner, with copies to each named insured and additional insured (as identified in this Article, in the Supplementary Conditions, or elsewhere in the Contract), certificates of insurance establishing that Contractor has obtained and is

maintaining the policies, coverages, and endorsements required by the Contract. Upon request by Owner or any other insured, Contractor shall also furnish other evidence of such required insurance, including but not limited to copies of policies and endorsements, and documentation of applicable self-insured retentions and deductibles. Contractor may block out (redact) any confidential premium or pricing information contained in any policy or endorsement furnished under this provision.

- D. Owner shall deliver to Contractor, with copies to each named insured and additional insured (as identified in this Article, the Supplementary Conditions, or elsewhere in the Contract), certificates of insurance establishing that Owner has obtained and is maintaining the policies, coverages, and endorsements required of Owner by the Contract (if any). Upon request by Contractor or any other insured, Owner shall also provide other evidence of such required insurance (if any), including but not limited to copies of policies and endorsements, and documentation of applicable self-insured retentions and deductibles. Owner may block out (redact) any confidential premium or pricing information contained in any policy or endorsement furnished under this provision.
- E. Failure of Owner or Contractor to demand such certificates or other evidence of the other party's full compliance with these insurance requirements, or failure of Owner or Contractor to identify a deficiency in compliance from the evidence provided, shall not be construed as a waiver of the other party's obligation to obtain and maintain such insurance.
- F. If either party does not purchase or maintain all of the insurance required of such party by the Contract, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage.
- G. If Contractor has failed to obtain and maintain required insurance, Owner may exclude the Contractor from the Site, impose an appropriate set-off against payment, and exercise Owner's termination rights under Article 16.
- H. Without prejudice to any other right or remedy, if a party has failed to obtain required insurance, the other party may elect to obtain equivalent insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and the Contract Price shall be adjusted accordingly.
- I. Owner does not represent that insurance coverage and limits established in this Contract necessarily will be adequate to protect Contractor or Contractor's interests.
- J. The insurance and insurance limits required herein shall not be deemed as a limitation on Contractor's liability under the indemnities granted to Owner and other individuals and entities in the Contract.

6.03 Contractor's Insurance

- A. *Workers' Compensation*: Contractor shall purchase and maintain workers' compensation and employer's liability insurance for:
 - claims under workers' compensation, disability benefits, and other similar employee benefit acts.
 - 2. United States Longshoreman and Harbor Workers' Compensation Act and Jones Act coverage (if applicable).
 - claims for damages because of bodily injury, occupational sickness or disease, or death
 of Contractor's employees (by stop-gap endorsement in monopolist worker's
 compensation states).

- 4. Foreign voluntary worker compensation (if applicable).
- B. Commercial General Liability—Claims Covered: Contractor shall purchase and maintain commercial general liability insurance, covering all operations by or on behalf of Contractor, on an occurrence basis, against:
 - 1. claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees.
 - 2. claims for damages insured by reasonably available personal injury liability coverage.
 - 3. 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.
- C. Commercial General Liability—Form and Content: Contractor's commercial liability policy shall be written on a 1996 (or later) ISO commercial general liability form (occurrence form) and include the following coverages and endorsements:
 - 1. Products and completed operations coverage:
 - a. Such insurance shall be maintained for three years after final payment.
 - b. Contractor shall furnish Owner and each other additional insured (as identified in the Supplementary Conditions or elsewhere in the Contract) evidence of continuation of such insurance at final payment and three years thereafter.
 - Blanket contractual liability coverage, to the extent permitted by law, including but not limited to coverage of Contractor's contractual indemnity obligations in Paragraph 7.18.
 - 3. Broad form property damage coverage.
 - 4. Severability of interest.
 - 5. Underground, explosion, and collapse coverage.
 - 6. Personal injury coverage.
 - Additional insured endorsements that include both ongoing operations and products and completed operations coverage through ISO Endorsements CG 20 10 10 01 and CG 20 37 10 01 (together); or CG 20 10 07 04 and CG 20 37 07 04 (together); or their equivalent.
 - 8. For design professional additional insureds, ISO Endorsement CG 20 32 07 04, "Additional Insured—Engineers, Architects or Surveyors Not Engaged by the Named Insured" or its equivalent.
- D. Automobile liability: Contractor shall purchase and maintain automobile liability insurance against claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance, or use of any motor vehicle. The automobile liability policy shall be written on an occurrence basis.
- E. Umbrella or excess liability: Contractor shall purchase and maintain umbrella or excess liability insurance written over the underlying employer's liability, commercial general liability, and automobile liability insurance described in the paragraphs above. Subject to industry-standard exclusions, the coverage afforded shall follow form as to each and every one of the underlying policies.
- F. Contractor's pollution liability insurance: Contractor shall purchase and maintain a policy covering third-party injury and property damage claims, including clean-up costs, as a result

- of pollution conditions arising from Contractor's operations and completed operations. This insurance shall be maintained for no less than three years after final completion.
- G. Additional insureds: The Contractor's commercial general liability, automobile liability, umbrella or excess, and pollution liability policies shall include and list as additional insureds. Owner and Engineer, and any individuals or entities identified in the Supplementary Conditions; include coverage for the respective officers, directors, members, partners, employees, agents, 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 covered thereby (including as applicable those arising from both ongoing and completed operations) on a non-contributory basis. Contractor shall obtain all necessary endorsements to support these requirements.
- H. Contractor's professional liability insurance: If Contractor will provide or furnish professional services under this Contract, through a delegation of professional design services or otherwise, then Contractor shall be responsible for purchasing and maintaining applicable professional liability insurance. This insurance shall provide protection against claims arising out of performance of professional design or related services, and caused by a negligent error, omission, or act for which the insured party is legally liable. It shall be maintained throughout the duration of the Contract and for a minimum of two years after Substantial Completion. If such professional design services are performed by a Subcontractor, and not by Contractor itself, then the requirements of this paragraph may be satisfied through the purchasing and maintenance of such insurance by such Subcontractor.
- I. General provisions: The policies of insurance required by this Paragraph 6.03 shall:
 - 1. include at least the specific coverages provided in this Article.
 - 2. be written for not less than the limits of liability provided in this Article and in the Supplementary Conditions, or required by Laws or Regulations, whichever is greater.
 - contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused until at least 10 days prior written notice has been given to Contractor. Within three days of receipt of any such written notice, Contractor shall provide a copy of the notice to Owner, Engineer, and each other insured under the policy.
 - 4. remain in effect at least until final payment (and longer if expressly required in this Article) and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work as a warranty or correction obligation, or otherwise, or returning to the Site to conduct other tasks arising from the Contract Documents.
 - 5. be appropriate for the Work being performed and provide protection from claims that 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.
- J. The coverage requirements for specific policies of insurance must be met by such policies, and not by reference to excess or umbrella insurance provided in other policies.

6.04 Owner's Liability Insurance

- A. In addition to the insurance required to be provided by Contractor under Paragraph 6.03, 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.
- B. Owner's liability policies, if any, operate separately and independently from policies required to be provided by Contractor, and Contractor cannot rely upon Owner's liability policies for any of Contractor's obligations to the Owner, Engineer, or third parties.

6.05 *Property Insurance*

- A. Builder's Risk: Unless otherwise provided in the Supplementary Conditions, Contractor shall purchase and maintain builder's risk insurance upon the Work on a completed value basis, in the amount of the full insurable 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:
 - include the Owner and Contractor as named insureds, and all Subcontractors, and any individuals or entities required by the Supplementary Conditions to be insured under such builder's risk policy, as insureds or named insureds. For purposes of the remainder of this Paragraph 6.05, Paragraphs 6.06 and 6.07, and any corresponding Supplementary Conditions, the parties required to be insured shall collectively be referred to as "insureds."
 - 2. be written on a builder's risk "all risk" policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, falsework, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire; lightning; windstorm; riot; civil commotion; terrorism; vehicle impact; aircraft; smoke; theft; vandalism and malicious mischief; mechanical breakdown, boiler explosion, and artificially generated electric current; earthquake; volcanic activity, and other earth movement; flood; collapse; explosion; debris removal; demolition occasioned by enforcement of Laws and Regulations; water damage (other than that caused by flood); and such other perils or causes of loss as may be specifically required by the Supplementary Conditions. If insurance against mechanical breakdown, boiler explosion, and artificially generated electric current; earthquake; volcanic activity, and other earth movement; or flood, are not commercially available under builder's risk policies, by endorsement or otherwise, such insurance may be provided through other insurance policies acceptable to Owner and Contractor.
 - 3. cover, as insured property, at least the following: (a) the Work and all materials, supplies, machinery, apparatus, equipment, fixtures, and other property of a similar nature that are to be incorporated into or used in the preparation, fabrication, construction, erection, or completion of the Work, including Owner-furnished or assigned property; (b) spare parts inventory required within the scope of the Contract; and (c) temporary works which are not intended to form part of the permanent constructed Work but which are intended to provide working access to the Site, or to the Work under construction, or which are intended to provide temporary support for the Work under construction, including scaffolding, form work, fences, shoring, falsework, and temporary structures.
 - 4. cover expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects).

- 5. extend to cover damage or loss to insured property while in temporary storage at the Site or in a storage location outside the Site (but not including property stored at the premises of a manufacturer or Supplier).
- 6. extend to cover damage or loss to insured property while in transit.
- allow for partial occupation or use of the Work by Owner, such that those portions of the Work that are not yet occupied or used by Owner shall remain covered by the builder's risk insurance.
- 8. allow for the waiver of the insurer's subrogation rights, as set forth below.
- 9. provide primary coverage for all losses and damages caused by the perils or causes of loss covered.
- 10. not include a co-insurance clause.
- 11. include an exception for ensuing losses from physical damage or loss with respect to any defective workmanship, design, or materials exclusions.
- 12. include performance/hot testing and start-up.
- 13. be maintained in effect, subject to the provisions herein regarding Substantial Completion and partial occupancy or use of the Work by Owner, until the Work is complete.
- B. Notice of Cancellation or Change: All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with this Paragraph 6.05 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 10 days prior written notice has been given to the purchasing policyholder. Within three days of receipt of any such written notice, the purchasing policyholder shall provide a copy of the notice to each other insured.
- C. *Deductibles*: The purchaser of any required builder's risk or property insurance shall pay for costs not covered because of the application of a policy deductible.
- D. Partial Occupancy or Use by Owner: If Owner will occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in Paragraph 15.04, then Owner (directly, if it is the purchaser of the builder's risk policy, or through Contractor) will provide notice of such occupancy or use to the builder's risk insurer. The builder's risk insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy; rather, those portions of the Work that are occupied or used by Owner may come off the builder's risk policy, while those portions of the Work not yet occupied or used by Owner shall remain covered by the builder's risk insurance.
- E. Additional Insurance: If Contractor elects to obtain other special insurance to be included in or supplement the builder's risk or property insurance policies provided under this Paragraph 6.05, it may do so at Contractor's expense.
- F. Insurance of Other Property: If the express insurance provisions of the Contract do not require or address the insurance of a property item or interest, such as tools, construction equipment, or other personal property owned by Contractor, a Subcontractor, or an employee of Contractor or a Subcontractor, then the entity or individual owning such property item will be responsible for deciding whether to insure it, and if so in what amount.

6.06 Waiver of Rights

- All policies purchased in accordance with Paragraph 6.05, expressly including the builder's risk policy, 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 insureds thereunder, or against Engineer or its consultants, or their officers, directors, members, partners, employees, agents, consultants, or subcontractors. Owner and Contractor waive all rights against each other and the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Engineer, its consultants, all Subcontractors, all individuals or entities identified in the Supplementary Conditions as insureds, and the officers, directors, members, partners, employees, agents, 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 or Contractor as trustee or fiduciary, or otherwise payable under any policy so issued.
- B. Owner waives all rights against Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, for:
 - loss due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to Owner's property or the Work caused by, arising out of, or resulting from fire or other perils whether or not insured by Owner; and
 - loss or damage to the completed Project or part thereof caused by, arising out of, or resulting from fire or other insured peril or cause of loss covered by any property insurance maintained on the completed Project or part thereof by Owner during partial occupancy or use pursuant to Paragraph 15.04, after Substantial Completion pursuant to Paragraph 15.03, or after final payment pursuant to Paragraph 15.06.
- C. Any insurance policy maintained by Owner covering any loss, damage or consequential loss referred to in Paragraph 6.06.B shall contain provisions to the effect that in the event of payment of any such loss, damage, or consequential loss, the insurers will have no rights of recovery against Contractor, Subcontractors, or Engineer, or the officers, directors, members, partners, employees, agents, consultants, or subcontractors of each and any of them.
- D. Contractor shall be responsible for assuring that the agreement under which a Subcontractor performs a portion of the Work contains provisions whereby the Subcontractor waives all rights against Owner, Contractor, all individuals or entities identified in the Supplementary Conditions as insureds, the Engineer and its consultants, and the officers, directors, members, partners, employees, agents, 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 builder's risk insurance and any other property insurance applicable to the Work.
- 6.07 Receipt and Application of Property Insurance Proceeds
 - A. Any insured loss under the builder's risk and other policies of insurance required by Paragraph 6.05 will be adjusted and settled with the named insured that purchased the

- policy. Such named insured shall act as fiduciary for the other insureds, and give notice to such other insureds that adjustment and settlement of a claim is in progress. Any other insured may state its position regarding a claim for insured loss in writing within 15 days after notice of such claim.
- B. Proceeds for such insured losses may be made payable by the insurer either jointly to multiple insureds, or to the named insured that purchased the policy in its own right and as fiduciary for other insureds, subject to the requirements of any applicable mortgage clause. A named insured receiving insurance proceeds under the builder's risk and other policies of insurance required by Paragraph 6.05 shall distribute such proceeds in accordance with such agreement as the parties in interest may reach, or as otherwise required under the dispute resolution provisions of this Contract or applicable Laws and Regulations.
- C. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the money so received applied on account thereof, and the Work and the cost thereof covered by Change Order, if needed.

ARTICLE 7 - CONTRACTOR'S RESPONSIBILITIES

7.01 Supervision and Superintendence

- 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.
- B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who shall not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

7.02 Labor; Working Hours

- A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction 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, Monday through Friday. Contractor will not perform Work on a Saturday, Sunday, or any legal holiday. Contractor may perform Work outside regular working hours or on Saturdays, Sundays, or legal holidays only with Owner's written consent, which will not be unreasonably withheld.

7.03 Services, Materials, and Equipment

- A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, 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, whether or not such items are specifically called for in the Contract Documents.
- B. All materials and equipment incorporated into the Work shall be of good quality and new, except as otherwise provided in the Contract Documents. All special warranties and

- guarantees required 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.
- C. All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

7.04 "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 Contract Price has been based upon Contractor furnishing such item as specified. The specification or description of such an item is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or equal" item is permitted, Contractor may request that Engineer authorize the use of other items of material or equipment, or items from other proposed suppliers under the circumstances described below.
 - 1. If Engineer in its sole discretion determines that 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, Engineer shall deem it an "or equal" item. For the purposes of this paragraph, a proposed item of material or equipment will be considered functionally equal to an item so named if:
 - a. in the exercise of reasonable judgment Engineer determines that:
 - 1) it is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics;
 - it will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole;
 - it has a proven record of performance and availability of responsive service;
 and
 - 4) it is not objectionable to Owner.
 - b. Contractor certifies that, if approved and incorporated into the Work:
 - there will be no increase in cost to the Owner or increase in Contract Times;
 and
 - 2) it will conform substantially to the detailed requirements of the item named in the Contract Documents.
- B. *Contractor's Expense*: Contractor shall provide all data in support of any proposed "or equal" item at Contractor's expense.
- C. Engineer's Evaluation and Determination: Engineer will be allowed a reasonable time to evaluate each "or-equal" request. Engineer may require Contractor to furnish additional data about the proposed "or-equal" item. Engineer will be the sole judge of acceptability. No "or-equal" item will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an "or-equal", which will be evidenced by an approved Shop Drawing or other written communication. Engineer will advise Contractor in writing of any negative determination.

- D. Effect of Engineer's Determination: Neither approval nor denial of an "or-equal" request shall result in any change in Contract Price. The Engineer's denial of an "or-equal" request shall be final and binding, and may not be reversed through an appeal under any provision of the Contract Documents.
- E. Treatment as a Substitution Request: If Engineer determines that an item of material or equipment proposed by Contractor does not qualify as an "or-equal" item, Contractor may request that Engineer considered the proposed item as a substitute pursuant to Paragraph 7.05.

7.05 *Substitutes*

- A. Unless the specification or description of an item of material or equipment required to be furnished under the Contract Documents contains or is followed by words reading that no substitution is permitted, Contractor may request that Engineer authorize the use of other items of material or equipment under the circumstances described below. To the extent possible such requests shall be made before commencement of related construction at the Site.
 - Contractor shall submit sufficient information as provided below to allow Engineer to determine if the item of material or equipment proposed is functionally equivalent to that named and an acceptable substitute therefor. Engineer will not accept requests for review of proposed substitute items of material or equipment from anyone other than Contractor.
 - The requirements for review by Engineer will be as set forth in Paragraph 7.05.B, as supplemented by the Specifications, and as Engineer may decide is appropriate under the circumstances.
 - 3. Contractor shall 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:
 - a. shall certify that the proposed substitute item will:
 - 1) perform adequately the functions and achieve the results called for by the general design,
 - 2) be similar in substance to that specified, and
 - 3) be suited to the same use as that specified.

b. will state:

- 1) the extent, if any, to which the use of the proposed substitute item will necessitate a change in Contract Times,
- 2) whether use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item, and
- 3) whether incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty.

c. will identify:

1) all variations of the proposed substitute item from that specified, and

- 2) available engineering, sales, maintenance, repair, and replacement services.
- d. shall contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including but not limited to changes in Contract Price, shared savings, costs of redesign, and claims of other contractors affected by any resulting change.
- B. Engineer's Evaluation and Determination: Engineer will be allowed a reasonable time to evaluate each substitute request, and to obtain comments and direction from Owner. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No substitute will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an acceptable substitute. Engineer's determination will be evidenced by a Field Order or a proposed Change Order accounting for the substitution itself and all related impacts, including changes in Contract Price or Contract Times. Engineer will advise Contractor in writing of any negative determination.
- C. *Special Guarantee*: Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.
- D. Reimbursement of Engineer's Cost: Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor. Whether or not Engineer approves a substitute so proposed or submitted by Contractor, Contractor shall reimburse Owner for the reasonable charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the reasonable charges of Engineer for making changes in the Contract Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute.
- E. *Contractor's Expense*: Contractor shall provide all data in support of any proposed substitute at Contractor's expense.
- F. Effect of Engineer's Determination: If Engineer approves the substitution request, Contractor shall execute the proposed Change Order and proceed with the substitution. The Engineer's denial of a substitution request shall be final and binding, and may not be reversed through an appeal under any provision of the Contract Documents. Contractor may challenge the scope of reimbursement costs imposed under Paragraph 7.05.D, by timely submittal of a Change Proposal.

7.06 Concerning Subcontractors, Suppliers, and Others

- A. Contractor may retain Subcontractors and Suppliers for the performance of parts of the Work. Such Subcontractors and Suppliers must be acceptable to Owner.
- B. Contractor shall retain specific Subcontractors, Suppliers, or other individuals or entities for the performance of designated parts of the Work if required by the Contract to do so.
- C. Subsequent to the submittal of Contractor's Bid or final negotiation of the terms of the Contract, Owner may not require Contractor to retain any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against which Contractor has reasonable objection.
- D. Prior to entry into any binding subcontract or purchase order, Contractor shall submit to Owner the identity of the proposed Subcontractor or Supplier (unless Owner has already deemed such proposed Subcontractor or Supplier acceptable, during the bidding process or otherwise). Such proposed Subcontractor or Supplier shall be deemed acceptable to Owner unless Owner raises a substantive, reasonable objection within five days.

- E. Owner may require the replacement of any Subcontractor, Supplier, or other individual or entity retained by Contractor to perform any part of the Work. Owner also may require Contractor to retain specific replacements; provided, however, that Owner may not require a replacement to which Contractor has a reasonable objection. If Contractor has submitted the identity of certain Subcontractors, Suppliers, or other individuals or entities for acceptance by Owner, and Owner has accepted it (either in writing or by failing to make written objection thereto), then Owner may subsequently revoke the acceptance of any such Subcontractor, Supplier, or other individual or entity so identified solely on the basis of substantive, reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity.
- F. If Owner requires the replacement of any Subcontractor, Supplier, or other individual or entity retained by Contractor to perform any part of the Work, then Contractor shall be entitled to an adjustment in Contract Price or Contract Times, or both, with respect to the replacement; and Contractor shall initiate a Change Proposal for such adjustment within 30 days of Owner's requirement of replacement.
- G. No acceptance by Owner of any such Subcontractor, Supplier, or other individual or entity, whether initially or as a replacement, shall constitute a waiver of the right of Owner to the completion of the Work in accordance with the Contract Documents.
- H. On a monthly basis Contractor shall submit to Engineer a complete list of all Subcontractors and Suppliers having a direct contract with Contractor, and of all other Subcontractors and Suppliers known to Contractor at the time of submittal.
- I. 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 omissions.
- J. Contractor shall be solely responsible for scheduling and coordinating the work of Subcontractors, Suppliers, and all other individuals or entities performing or furnishing any of the Work.
- K. Contractor shall restrict all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work from communicating with Engineer or Owner, except through Contractor or in case of an emergency, or as otherwise expressly allowed herein.
- L. The divisions and sections 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.
- M. All Work performed for Contractor by a Subcontractor or Supplier shall be pursuant to an appropriate contractual agreement that specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Engineer.
- N. Owner may furnish to any Subcontractor or Supplier, to the extent practicable, information about amounts paid to Contractor on account of Work performed for Contractor by the particular Subcontractor or Supplier.

- O. 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 create any obligation on the part of Owner or Engineer to pay or to see to the
 payment of any money due any such Subcontractor, Supplier, or other individual or
 entity except as may otherwise be required by Laws and Regulations.

7.07 Patent Fees and Royalties

- A. Contractor shall pay all license fees 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 if, 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.
- B. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, and its officers, directors, members, partners, employees, agents, consultants, and subcontractors 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 specified in the Contract Documents, but not identified as being subject to payment of any license fee or royalty to others required by patent rights or copyrights.
- C. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, 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, 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 not specified in the Contract Documents.

7.08 Permits

A. Unless otherwise provided in the Contract Documents, Contractor shall obtain and pay for all construction permits and licenses. Owner shall assist 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 the submission of Contractor's Bid (or when Contractor became bound under a negotiated contract). Owner shall pay all charges of utility owners for connections for providing permanent service to the Work

7.09 *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.

7.10 Laws and Regulations

- A. Contractor shall give all notices required by and shall 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 monitoring Contractor's compliance with any Laws or Regulations.
- B. If Contractor performs any Work or takes any other action knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all resulting costs and losses, and shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, 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, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work or other action. It shall not be Contractor's responsibility to make certain that the Work described in the Contract Documents is in accordance with Laws and Regulations, but this shall not relieve Contractor of Contractor's obligations under Paragraph 3.03.
- C. Owner or Contractor may give notice to the other party of any changes after the submission of Contractor's Bid (or after the date when Contractor became bound under a negotiated contract) in Laws or Regulations having an effect on the cost or time of performance of the Work, including but not limited to changes in Laws or Regulations having an effect on procuring permits and on sales, use, value-added, consumption, and other similar taxes. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times resulting from such changes, then within 30 days of such notice Contractor may submit a Change Proposal, or Owner may initiate a Claim.

7.11 Record Documents

A. Contractor shall maintain in a safe place at the Site one printed record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, written interpretations and clarifications, and approved Shop Drawings. Contractor shall keep such record documents in good order and annotate them to show changes made during construction. These record documents, together with all approved Samples, will be available to Engineer for reference. Upon completion of the Work, Contractor shall deliver these record documents to Engineer.

7.12 Safety and Protection

- A. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:
 - 1. 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
- other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other work in progress, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.
- B. 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 Owner; the owners of adjacent property, Underground Facilities, and other utilities; and other contractors and utility owners performing work at or adjacent to the Site, when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property or work in progress.
- C. Contractor shall comply with the applicable requirements of Owner's safety programs, if any. The Supplementary Conditions identify any Owner's safety programs that are applicable to the Work.
- D. Contractor shall inform Owner and Engineer of the specific requirements of Contractor's safety program with which Owner's and Engineer's employees and representatives must comply while at the Site.
- E. All damage, injury, or loss to any property referred to in Paragraph 7.12.A.2 or 7.12.A.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other 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, shall be remedied by Contractor at its expense (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer 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).
- F. Contractor's duties and responsibilities for safety and protection 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 15.06.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).
- G. Contractor's duties and responsibilities for safety and protection shall resume whenever Contractor or any Subcontractor or Supplier returns to the Site to fulfill warranty or correction obligations, or to conduct other tasks arising from the Contract Documents.

7.13 Safety 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.

7.14 *Hazard Communication Programs*

A. Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or

exchanged between or among employers at the Site in accordance with Laws or Regulations.

7.15 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 act to prevent threatened damage, injury, or loss. 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.

7.16 Shop Drawings, Samples, and Other Submittals

- A. Shop Drawing and Sample Submittal Requirements:
 - 1. Before submitting a Shop Drawing or Sample, Contractor shall have:
 - reviewed and coordinated the Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents;
 - determined and verified all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;
 - c. determined and verified the suitability of all materials and equipment offered with respect to the indicated application, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work; and
 - d. determined and verified all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto.
 - Each submittal shall bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review of that submittal, and that Contractor approves the submittal.
 - 3. With each submittal, Contractor shall give Engineer specific written notice of any variations that the Shop Drawing or Sample may have from the requirements of the Contract Documents. This notice shall be set forth in a written communication separate from the Shop Drawings or Sample submittal; and, in addition, in the case of Shop Drawings by a specific notation made on each Shop Drawing submitted to Engineer for review and approval of each such variation.
- B. Submittal Procedures for Shop Drawings and Samples: Contractor shall submit Shop Drawings and Samples to Engineer for review and approval in accordance with the accepted Schedule of Submittals. Each submittal will be identified as Engineer may require.
 - 1. Shop Drawings:
 - a. Contractor shall submit the number of copies required in the Specifications.
 - b. Data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to

provide and to enable Engineer to review the information for the limited purposes required by Paragraph 7.16.D.

2. *Samples*:

- a. Contractor shall submit the number of Samples required in the Specifications.
- b. Contractor shall clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the submittal for the limited purposes required by Paragraph 7.16.D.
- 3. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals, any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.
- C. Other Submittals: Contractor shall submit other submittals to Engineer in accordance with the accepted Schedule of Submittals, and pursuant to the applicable terms of the Specifications.

D. Engineer's Review:

- Engineer will provide timely review of Shop Drawings and Samples in accordance with
 the Schedule of 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, or procedures of construction or to safety precautions or programs incident thereto.
- 3. Engineer's review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.
- 4. Engineer's review and approval of a Shop Drawing or Sample shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 7.16.A.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer will document any such approved variation from the requirements of the Contract Documents in a Field Order.
- 5. Engineer's review and approval of a Shop Drawing or Sample shall not relieve Contractor from responsibility for complying with the requirements of Paragraph 7.16.A and B.
- 6. Engineer's review and approval of a Shop Drawing or Sample, or of a variation from the requirements of the Contract Documents, shall not, under any circumstances, change the Contract Times or Contract Price, unless such changes are included in a Change Order.
- 7. Neither Engineer's receipt, review, acceptance or approval of a Shop Drawing, Sample, or other submittal shall result in such item becoming a Contract Document.

8. Contractor shall perform the Work in compliance with the requirements and commitments set forth in approved Shop Drawings and Samples, subject to the provisions of Paragraph 7.16.D.4.

E. Resubmittal Procedures:

- Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as 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.
- 2. Contractor shall furnish required submittals with sufficient information and accuracy to obtain required approval of an item with no more than three submittals. Engineer will record Engineer's time for reviewing a fourth or subsequent submittal of a Shop Drawings, sample, or other item requiring approval, and Contractor shall be responsible for Engineer's charges to Owner for such time. Owner may impose a set-off against payments due to Contractor to secure reimbursement for such charges.
- 3. If Contractor requests a change of a previously approved submittal item, Contractor shall be responsible for Engineer's charges to Owner for its review time, and Owner may impose a set-off against payments due to Contractor to secure reimbursement for such charges, unless the need for such change is beyond the control of Contractor.

7.17 Contractor's General Warranty and Guarantee

- A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer and its officers, directors, members, partners, employees, agents, consultants, and subcontractors shall be entitled to rely on Contractor's warranty and guarantee.
- B. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:
 - abuse, modification, or improper maintenance or operation by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or
 - 2. normal wear and tear under normal usage.
- C. 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:
 - 1. observations 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 review and approval of a Shop Drawing or Sample submittal;
 - 6. the issuance of a notice of acceptability by Engineer;
 - 7. any inspection, test, or approval by others; or
 - 8. any correction of defective Work by Owner.

D. If the Contract requires the Contractor to accept the assignment of a contract entered into by Owner, then the specific warranties, guarantees, and correction obligations contained in the assigned contract shall govern with respect to Contractor's performance obligations to Owner for the Work described in the assigned contract.

7.18 *Indemnification*

- A. To the fullest extent permitted by Laws and Regulations, and in addition to any other obligations of Contractor under the Contract or otherwise, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, 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, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission 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.
- B. In any and all claims against Owner or Engineer or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors by any employee (or 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 7.18.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 employee benefit acts.
- C. The indemnification obligations of Contractor under Paragraph 7.18.A shall not extend to the liability of Engineer and Engineer's officers, directors, members, partners, employees, agents, consultants and subcontractors arising out of:
 - 1. the preparation or approval of, or the failure to prepare or approve maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or
 - 2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

7.19 Delegation of Professional Design Services

- A. Contractor will not be required to provide professional design services unless such services are specifically required by the Contract Documents for a portion of the Work or unless such services are required to carry out Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. Contractor shall not be required to provide professional services in violation of applicable Laws and Regulations.
- B. If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of Contractor by the Contract Documents, Owner and Engineer will specify all performance and design criteria that such services must satisfy. Contractor shall cause such services or certifications to be provided by a properly licensed professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, and other submittals prepared by such professional. Shop

- Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to Engineer.
- C. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy, and completeness of the services, certifications, or approvals performed by such design professionals, provided Owner and Engineer have specified to Contractor all performance and design criteria that such services must satisfy.
- D. Pursuant to this paragraph, Engineer's review and approval of design calculations and design drawings will be only for the limited purpose of checking for conformance with performance and design criteria given and the design concept expressed in the Contract Documents. Engineer's review and approval of Shop Drawings and other submittals (except design calculations and design drawings) will be only for the purpose stated in Paragraph 7.16.D.1.
- E. Contractor shall not be responsible for the adequacy of the performance or design criteria specified by Owner or Engineer.

ARTICLE 8 – OTHER WORK AT THE SITE

8.01 Other Work

- A. In addition to and apart from the Work under the Contract Documents, the Owner may perform other work at or adjacent to the Site. Such other work may be performed by Owner's employees, or through contracts between the Owner and third parties. Owner may also arrange to have third-party utility owners perform work on their utilities and facilities at or adjacent to the Site.
- B. If Owner performs other work at or adjacent to the Site with Owner's employees, or through contracts for such other work, then Owner shall give Contractor written notice thereof prior to starting any such other work. If Owner has advance information regarding the start of any utility work at or adjacent to the Site, Owner shall provide such information to Contractor.
- C. Contractor shall afford each other contractor that performs such other work, each utility owner performing other work, and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the Site, and provide a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work. 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, excavating, or otherwise altering such work; provided, however, that Contractor may cut or alter others' work with the written consent of Engineer and the others whose work will be affected.
- D. If the proper execution or results of any part of Contractor's Work depends upon work performed by others under this Article 8, Contractor shall inspect such other work and promptly report to Engineer 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 will 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.

8.02 Coordination

- A. If Owner intends to contract with others for the performance of other work at or adjacent to the Site, to perform other work at or adjacent to the Site with Owner's employees, or to arrange to have utility owners perform work at or adjacent to the Site, the following will be set forth in the Supplementary Conditions or provided to Contractor prior to the start of any such other work:
 - 1. the identity of the individual or entity that will have authority and responsibility for coordination of the activities among the various contractors;
 - 2. an itemization of the specific matters to be covered by such authority and responsibility; and
 - 3. the extent of such authority and responsibilities.
- B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

8.03 Legal Relationships

- If, in the course of performing other work at or adjacent to the Site for Owner, the Owner's employees, any other contractor working for Owner, or any utility owner causes damage to the Work or to the property of Contractor or its Subcontractors, or delays, disrupts, interferes with, or increases the scope or cost of the performance of the Work, through actions or inaction, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times, or both. Contractor must submit any Change Proposal seeking an equitable adjustment in the Contract Price or the Contract Times under this paragraph within 30 days of the damaging, delaying, disrupting, or interfering event. The entitlement to, and extent of, any such equitable adjustment shall take into account information (if any) regarding such other work that was provided to Contractor in the Contract Documents prior to the submittal of the Bid or the final negotiation of the terms of the Contract. When applicable, any such equitable adjustment in Contract Price shall be conditioned on Contractor assigning to Owner all Contractor's rights against such other contractor or utility owner with respect to the damage, delay, disruption, or interference that is the subject of the adjustment. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.
- B. Contractor shall take reasonable and customary measures to avoid damaging, delaying, disrupting, or interfering with the work of Owner, any other contractor, or any utility owner performing other work at or adjacent to the Site. If Contractor fails to take such measures and as a result damages, delays, disrupts, or interferes with the work of any such other contractor or utility owner, then Owner may impose a set-off against payments due to Contractor, and assign to such other contractor or utility owner the Owner's contractual rights against Contractor with respect to the breach of the obligations set forth in this paragraph.
- C. When Owner is performing other work at or adjacent to the Site with Owner's employees, Contractor shall be liable to Owner for damage to such other work, and for the reasonable direct delay, disruption, and interference costs incurred by Owner as a result of Contractor's failure to take reasonable and customary measures with respect to Owner's other work. In response to such damage, delay, disruption, or interference, Owner may impose a set-off against payments due to Contractor.

D. If Contractor damages, delays, disrupts, or interferes with the work of any other contractor, or any utility owner performing other work at or adjacent to the Site, through Contractor's failure to take reasonable and customary measures to avoid such impacts, or if any claim arising out of Contractor's actions, inactions, or negligence in performance of the Work at or adjacent to the Site is made by any such other contractor or utility owner against Contractor, Owner, or Engineer, then Contractor shall (1) promptly attempt to settle the claim as to all parties through negotiations with such other contractor or utility owner, or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law, and (2) indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against any such claims, and against all 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 such damage, delay, disruption, or interference.

ARTICLE 9 – OWNER'S RESPONSIBILITIES

9.01 Communications to Contractor

A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

9.02 Replacement of Engineer

A. Owner may at its discretion appoint an engineer to replace Engineer, provided Contractor makes no reasonable objection to the replacement engineer. The replacement engineer's status under the Contract Documents shall be that of the former Engineer.

9.03 Furnish Data

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

9.04 Pay When Due

A. Owner shall make payments to Contractor when they are due as provided in the Agreement.

9.05 Lands and Easements; Reports, Tests, and Drawings

- A. Owner's duties with respect to providing lands and easements are set forth in Paragraph 5.01.
- B. Owner's duties with respect to providing engineering surveys to establish reference points are set forth in Paragraph 4.03.
- C. Article 5 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of conditions at the Site, and drawings of physical conditions relating to existing surface or subsurface structures at the Site.

9.06 *Insurance*

A. Owner's responsibilities, if any, with respect to purchasing and maintaining liability and property insurance are set forth in Article 6.

9.07 Change Orders

A. Owner's responsibilities with respect to Change Orders are set forth in Article 11.

- 9.08 Inspections, Tests, and Approvals
 - A. Owner's responsibility with respect to certain inspections, tests, and approvals is set forth in Paragraph 14.02.B.
- 9.09 Limitations on Owner's Responsibilities
 - A. The Owner shall not supervise, direct, or have control or 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.
- 9.10 Undisclosed Hazardous Environmental Condition
 - A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 5.06.
- 9.11 Evidence of Financial Arrangements
 - A. Upon request of Contractor, Owner shall furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract Documents (including obligations under proposed changes in the Work).
- 9.12 Safety Programs
 - A. While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed.
 - B. Owner shall furnish copies of any applicable Owner safety programs to Contractor.

ARTICLE 10 - ENGINEER'S STATUS DURING CONSTRUCTION

- 10.01 Owner'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.
- 10.02 Visits to Site
 - 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, Engineer, 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 exhaustive 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 a 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 10.08. Particularly, but without limitation, during

or as a result 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 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.

10.03 Project Representative

A. If Owner and Engineer have agreed that Engineer will furnish a Resident Project Representative to represent Engineer at the Site and assist Engineer in observing the progress and quality of the Work, then the authority and responsibilities of any such Resident Project Representative will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in Paragraph 10.08. If Owner designates another representative or agent to represent Owner at the Site who is not Engineer's consultant, agent, or employee, the responsibilities and authority and limitations thereon of such other individual or entity will be as provided in the Supplementary Conditions.

10.04 Rejecting Defective Work

A. Engineer has the authority to reject Work in accordance with Article 14.

10.05 Shop Drawings, Change Orders and Payments

- A. Engineer's authority, and limitations thereof, as to Shop Drawings and Samples, are set forth in Paragraph 7.16.
- B. Engineer's authority, and limitations thereof, as to design calculations and design drawings submitted in response to a delegation of professional design services, if any, are set forth in Paragraph 7.19.
- C. Engineer's authority as to Change Orders is set forth in Article 11.
- D. Engineer's authority as to Applications for Payment is set forth in Article 15.

10.06 Determinations for Unit Price Work

A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor as set forth in Paragraph 13.03.

10.07 Decisions on Requirements of Contract Documents and Acceptability of Work

A. Engineer will render decisions regarding the requirements of the Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth herein for initial interpretations, Change Proposals, and acceptance of the Work. In rendering such decisions and judgments, Engineer will not show partiality to Owner or Contractor, and will not be liable to Owner, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

10.08 Limitations on Engineer's Authority and Responsibilities

A. Neither Engineer's authority or responsibility under this Article 10 or under any other provision of the Contract, nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer, shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety 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 final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 15.06.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 set forth in this Paragraph 10.08 shall also apply to the Resident Project Representative, if any.

10.09 Compliance with Safety Program

A. While at the Site, Engineer's employees and representatives will comply with the specific applicable requirements of Owner's and Contractor's safety programs (if any) of which Engineer has been informed.

ARTICLE 11 – AMENDING THE CONTRACT DOCUMENTS; CHANGES IN THE WORK

11.01 Amending and Supplementing Contract Documents

A. The Contract Documents may be amended or supplemented by a Change Order, a Work Change Directive, or a Field Order.

1. Change Orders:

- a. If an amendment or supplement to the Contract Documents includes a change in the Contract Price or the Contract Times, such amendment or supplement must be set forth in a Change Order. A Change Order also may be used to establish amendments and supplements of the Contract Documents that do not affect the Contract Price or Contract Times.
- b. Owner and Contractor may amend those terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, without the recommendation of the Engineer. Such an amendment shall be set forth in a Change Order.
- 2. Work Change Directives: A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the modification ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order, following negotiations by the parties as to the Work Change Directive's effect, if any, on the Contract Price and Contract Times; or, if negotiations are unsuccessful, by a determination under the terms of the Contract Documents governing adjustments, expressly including Paragraph 11.04 regarding change of Contract Price. Contractor must submit any Change Proposal seeking an

- adjustment of the Contract Price or the Contract Times, or both, no later than 30 days after the completion of the Work set out in the Work Change Directive. Owner must submit any Claim seeking an adjustment of the Contract Price or the Contract Times, or both, no later than 60 days after issuance of the Work Change Directive.
- 3. Field Orders: Engineer may authorize minor changes in the Work if the changes 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. Such changes will be accomplished by a Field Order and will be binding on Owner and also on Contractor, which shall perform the Work involved promptly. If Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, then before proceeding with the Work at issue, Contractor shall submit a Change Proposal as provided herein.

11.02 Owner-Authorized Changes in the Work

A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work. Such changes shall be supported by Engineer's recommendation, to the extent the change involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters. Such changes may be accomplished by a Change Order, if Owner and Contractor have agreed as to the effect, if any, of the changes on Contract Times or Contract Price; or by a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved; or, in the case of a deletion in the Work, promptly cease construction activities with respect to such deleted Work. Added or revised Work shall be performed under the applicable conditions of the Contract Documents. Nothing in this paragraph shall obligate Contractor to undertake work that Contractor reasonably concludes cannot be performed in a manner consistent with Contractor's safety obligations under the Contract Documents or Laws and Regulations.

11.03 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, except in the case of an emergency as provided in Paragraph 7.15 or in the case of uncovering Work as provided in Paragraph 14.05.

11.04 Change of Contract Price

- A. The Contract Price may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Price shall comply with the provisions of Paragraph 11.06. Any Claim for an adjustment of Contract Price shall comply with the provisions of Article 12.
- B. An adjustment in the Contract Price will be determined as follows:
 - where the Work involved is covered by unit prices contained in the Contract Documents, then by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 13.03); or
 - 2. where the Work involved is not covered by unit prices contained in the Contract Documents, then by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 11.04.C.2); or
 - 3. where the Work involved is not covered by unit prices contained in the Contract Documents and the parties do not reach mutual agreement to a lump sum, then on

the basis of the Cost of the Work (determined as provided in Paragraph 13.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 11.04.C).

- C. *Contractor's Fee*: When applicable, the Contractor's fee for overhead and profit shall be determined as follows:
 - a mutually acceptable fixed fee; or
 - 2. if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:
 - a. for costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2, the Contractor's fee shall be 15 percent;
 - b. for costs incurred under Paragraph 13.01.B.3, the Contractor's fee shall be five percent;
 - c. where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraphs 11.01.C.2.a and 11.01.C.2.b is that the Contractor's fee shall be based on: (1) a fee of 15 percent of the costs incurred under Paragraphs 13.01.A.1 and 13.01.A.2 by the Subcontractor that actually performs the Work, at whatever tier, and (2) with respect to Contractor itself and to any Subcontractors of a tier higher than that of the Subcontractor that actually performs the Work, a fee of five percent of the amount (fee plus underlying costs incurred) attributable to the next lower tier Subcontractor; provided, however, that for any such subcontracted work the maximum total fee to be paid by Owner shall be no greater than 27 percent of the costs incurred by the Subcontractor that actually performs the work;
 - d. no fee shall be payable on the basis of costs itemized under Paragraphs 13.01.B.4, 13.01.B.5, and 13.01.C;
 - e. the amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in Contractor's fee by an amount equal to five percent of such net decrease; and
 - f. when both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with Paragraphs 11.04.C.2.a through 11.04.C.2.e, inclusive.

11.05 Change of Contract Times

- A. The Contract Times may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Times shall comply with the provisions of Paragraph 11.06. Any Claim for an adjustment in the Contract Times shall comply with the provisions of Article 12.
- B. An adjustment of the Contract Times shall be subject to the limitations set forth in Paragraph 4.05, concerning delays in Contractor's progress.

11.06 Change Proposals

A. Contractor shall submit a Change Proposal to Engineer to request an adjustment in the Contract Times or Contract Price; appeal an initial decision by Engineer concerning the requirements of the Contract Documents or relating to the acceptability of the Work under the Contract Documents; contest a set-off against payment due; or seek other relief under

the Contract. The Change Proposal shall specify any proposed change in Contract Times or Contract Price, or both, or other proposed relief, and explain the reason for the proposed change, with citations to any governing or applicable provisions of the Contract Documents.

- 1. Procedures: Contractor shall submit each Change Proposal to Engineer promptly (but in no event later than 30 days) after the start of the event giving rise thereto, or after such initial decision. The Contractor shall submit supporting data, including the proposed change in Contract Price or Contract Time (if any), to the Engineer and Owner within 15 days after the submittal of the Change Proposal. The supporting data shall be accompanied by a written statement that the supporting data are accurate and complete, and that any requested time or price adjustment is the entire adjustment to which Contractor believes it is entitled as a result of said event. Engineer will advise Owner regarding the Change Proposal, and consider any comments or response from Owner regarding the Change Proposal.
- 2. Engineer's Action: Engineer will review each Change Proposal and, within 30 days after receipt of the Contractor's supporting data, either deny the Change Proposal in whole, approve it in whole, or deny it in part and approve it in part. Such actions shall be in writing, with a copy provided to Owner and Contractor. If Engineer does not take action on the Change Proposal within 30 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of Engineer's inaction the Change Proposal is deemed denied, thereby commencing the time for appeal of the denial under Article 12.
- 3. *Binding Decision*: Engineer's decision will be final and binding upon Owner and Contractor, unless Owner or Contractor appeals the decision by filing a Claim under Article 12.
- B. Resolution of Certain Change Proposals: If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties that the Engineer is unable to resolve the Change Proposal. For purposes of further resolution of such a Change Proposal, such notice shall be deemed a denial, and Contractor may choose to seek resolution under the terms of Article 12.

11.07 Execution of Change Orders

- A. Owner and Contractor shall execute appropriate Change Orders covering:
 - changes in the Contract Price or 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;
 - changes in Contract Price resulting from an Owner set-off, unless Contractor has duly contested such set-off;
 - 3. changes in the Work which are: (a) ordered by Owner pursuant to Paragraph 11.02, (b) required because of Owner's acceptance of defective Work under Paragraph 14.04 or Owner's correction of defective Work under Paragraph 14.07, or (c) agreed to by the parties, subject to the need for Engineer's recommendation if the change in the Work involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters; and
 - 4. changes in the Contract Price or Contract Times, or other changes, which embody the substance of any final and binding results under Paragraph 11.06, or Article 12.

B. If Owner or Contractor refuses to execute a Change Order that is required to be executed under the terms of this Paragraph 11.07, it shall be deemed to be of full force and effect, as if fully executed.

11.08 Notification to Surety

A. If the provisions of any bond require notice to be given to a surety 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), 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.

ARTICLE 12 – CLAIMS

12.01 *Claims*

- A. *Claims Process*: The following disputes between Owner and Contractor shall be submitted to the Claims process set forth in this Article:
 - 1. Appeals by Owner or Contractor of Engineer's decisions regarding Change Proposals;
 - 2. Owner demands for adjustments in the Contract Price or Contract Times, or other relief under the Contract Documents; and
 - 3. Disputes that Engineer has been unable to address because they do not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters.
- B. Submittal of Claim: The party submitting a Claim shall deliver it directly to the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto; in the case of appeals regarding Change Proposals within 30 days of the decision under appeal. The party submitting the Claim shall also furnish a copy to the Engineer, for its information only. The responsibility to substantiate a Claim shall rest with the party making the Claim. In the case of a Claim by Contractor seeking an increase in the Contract Times or Contract Price, or both, Contractor shall certify that the Claim is made in good faith, that the supporting data are accurate and complete, and that to the best of Contractor's knowledge and belief the amount of time or money requested accurately reflects the full amount to which Contractor is entitled.
- C. Review and Resolution: The party receiving a Claim shall review it thoroughly, giving full consideration to its merits. The two parties shall seek to resolve the Claim through the exchange of information and direct negotiations. The parties may extend the time for resolving the Claim by mutual agreement. All actions taken on a Claim shall be stated in writing and submitted to the other party, with a copy to Engineer.

D. Mediation:

- At any time after initiation of a Claim, Owner and Contractor may mutually agree to mediation of the underlying dispute. The agreement to mediate shall stay the Claim submittal and response process.
- 2. If Owner and Contractor agree to mediation, then after 60 days from such agreement, either Owner or Contractor may unilaterally terminate the mediation process, and the Claim submittal and decision process shall resume as of the date of the termination. If the mediation proceeds but is unsuccessful in resolving the dispute, the Claim

- submittal and decision process shall resume as of the date of the conclusion of the mediation, as determined by the mediator.
- 3. Owner and Contractor shall each pay one-half of the mediator's fees and costs.
- E. *Partial Approval*: If the party receiving a Claim approves the Claim in part and denies it in part, such action shall be final and binding unless within 30 days of such action the other party invokes the procedure set forth in Article 17 for final resolution of disputes.
- F. Denial of Claim: If efforts to resolve a Claim are not successful, the party receiving the Claim may deny it by giving written notice of denial to the other party. If the receiving party does not take action on the Claim within 90 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of the inaction, the Claim is deemed denied, thereby commencing the time for appeal of the denial. A denial of the Claim shall be final and binding unless within 30 days of the denial the other party invokes the procedure set forth in Article 17 for the final resolution of disputes.
- G. Final and Binding Results: If the parties reach a mutual agreement regarding a Claim, whether through approval of the Claim, direct negotiations, mediation, or otherwise; or if a Claim is approved in part and denied in part, or denied in full, and such actions become final and binding; then the results of the agreement or action on the Claim shall be incorporated in a Change Order to the extent they affect the Contract, including the Work, the Contract Times, or the Contract Price.

ARTICLE 13 - COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

13.01 *Cost of the Work*

- A. *Purposes for Determination of Cost of the Work*: The term Cost of the Work means the sum of all costs necessary for the proper performance of the Work at issue, as further defined below. The provisions of this Paragraph 13.01 are used for two distinct purposes:
 - 1. To determine Cost of the Work when Cost of the Work is a component of the Contract Price, under cost-plus-fee, time-and-materials, or other cost-based terms; or
 - 2. To determine the value of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price. When the value of any such adjustment is determined on the basis of Cost of the Work, Contractor is entitled only to those additional or incremental costs required because of the change in the Work or because of the event giving rise to the adjustment.
- B. Costs Included: Except as otherwise may be agreed to in writing by Owner, costs included in the Cost of the Work shall be in amounts no higher than those prevailing in the locality of the Project, shall not include any of the costs itemized in Paragraph 13.01.C, and shall include only the following items:
 - 1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor. Such employees shall include, without limitation, superintendents, foremen, and other personnel employed full time on the Work. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, and vacation and holiday pay applicable

- thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner.
- 2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to Owner. All trade discounts, rebates, and refunds and returns from sale of surplus materials and equipment shall accrue to Owner, and Contractor shall make provisions so that they may be obtained.
- 3. Payments made by Contractor to Subcontractors for Work 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 Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph 13.01.
- 4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.
- 5. Supplemental costs including the following:
 - a. The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.
 - b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.
 - c. Rentals of all construction equipment and machinery, and the parts thereof, whether rented from Contractor or others in accordance with rental agreements approved by Owner with the advice of Engineer, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work.
 - d. Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, as imposed by Laws and Regulations.
 - e. Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
 - f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with Paragraph 6.05), provided such losses and damages have resulted from causes

other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's fee.

- g. The cost of utilities, fuel, and sanitary facilities at the Site.
- h. Minor expenses such as communication service at the Site, express and courier services, and similar petty cash items in connection with the Work.
- i. The costs of premiums for all bonds and insurance that Contractor is required by the Contract Documents to purchase and maintain.
- C. Costs Excluded: The term Cost of the Work shall not include any of the following items:
 - 1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expediters, timekeepers, clerks, 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 Paragraph 13.01.B.1 or specifically covered by Paragraph 13.01.B.4. The payroll costs and other compensation excluded here are to be considered administrative costs covered 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 capital employed for the Work and charges against Contractor for delinquent payments.
 - 4. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.
 - 5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 13.01.B.
- D. Contractor's Fee: When the Work as a whole is performed on the basis of cost-plus, Contractor's fee shall be determined as set forth in the Agreement. When the value of any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price is determined on the basis of Cost of the Work, Contractor's fee shall be determined as set forth in Paragraph 11.04.C.
- E. Documentation: Whenever the Cost of the Work for any purpose is to be determined pursuant to this Article 13, Contractor will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to Engineer an itemized cost breakdown together with supporting data.

13.02 Allowances

A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.

- B. Cash Allowances: Contractor agrees that:
 - the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and
 - Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.
- C. *Contingency Allowance*: Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.
- D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

13.03 Unit Price Work

- A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.
- B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Payments to Contractor for Unit Price Work will be based on actual quantities.
- C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.
- D. 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) upon Owner and Contractor, subject to the provisions of the following paragraph.
- E. Within 30 days of Engineer's written decision under the preceding paragraph, Contractor may submit a Change Proposal, or Owner may file a Claim, seeking an adjustment in the Contract Price if:
 - the quantity of any item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Agreement;
 - 2. there is no corresponding adjustment with respect to any other item of Work; and
 - Contractor believes that it is entitled to an increase 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 amount of any such increase or decrease.

ARTICLE 14 – TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

14.01 Access to Work

A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and authorities having jurisdiction will have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply therewith as applicable.

14.02 Tests, Inspections, and Approvals

- A. Contractor shall give Engineer timely notice of readiness of the Work (or specific parts thereof) for all required inspections and tests, and shall cooperate with inspection and testing personnel to facilitate required inspections and tests.
- B. Owner shall retain and pay for the services of an independent inspector, testing laboratory, or other qualified individual or entity to perform all inspections and tests expressly required by the Contract Documents to be furnished and paid for by Owner, except that costs incurred in connection with tests or inspections of covered Work shall be governed by the provisions of Paragraph 14.05.
- C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, 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, obtaining, and paying for all inspections and tests required:
 - 1. by the Contract Documents, unless the Contract Documents expressly allocate responsibility for a specific inspection or test to Owner;
 - 2. to attain Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work;
 - 3. by manufacturers of equipment furnished under the Contract Documents;
 - 4. for testing, adjusting, and balancing of mechanical, electrical, and other equipment to be incorporated into the Work; and
 - 5. for acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.

Such inspections and tests shall be performed by independent inspectors, testing laboratories, or other qualified individuals or entities acceptable to Owner and Engineer.

- E. If the Contract Documents require the Work (or part thereof) to be approved by Owner, Engineer, or another designated individual or entity, then Contractor shall assume full responsibility for arranging and obtaining such approvals.
- F. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation. Such uncovering shall be at Contractor's expense unless Contractor had given Engineer timely notice of Contractor's intention to

cover the same and Engineer had not acted with reasonable promptness in response to such notice.

14.03 Defective Work

- A. *Contractor's Obligation*: It is Contractor's obligation to assure that the Work is not defective.
- B. *Engineer's Authority*: Engineer has the authority to determine whether Work is defective, and to reject defective Work.
- C. *Notice of Defects*: Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor.
- D. *Correction, or Removal and Replacement*: Promptly after receipt of written notice of defective Work, Contractor shall correct all such defective Work, whether or not fabricated, installed, or completed, or, if Engineer has rejected the defective Work, remove it from the Project and replace it with Work that is not defective.
- E. *Preservation of Warranties*: When correcting defective Work, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.
- F. Costs and Damages: In addition to its correction, removal, and replacement obligations with respect to defective Work, Contractor shall pay all claims, costs, losses, and damages arising out of or relating to defective Work, including but not limited to the cost of the inspection, testing, correction, removal, replacement, or reconstruction of such defective Work, fines levied against Owner by governmental authorities because the Work is defective, and the costs of repair or replacement of work of others resulting from defective Work. Prior to final payment, if Owner and Contractor are unable to agree as to the measure of such claims, costs, losses, and damages resulting from defective Work, then Owner may impose a reasonable set-off against payments due under Article 15.

14.04 Acceptance of Defective Work

A. If, instead of requiring correction or removal and replacement of defective Work, Owner prefers to accept it, Owner may do so (subject, if such acceptance occurs prior to final payment, to Engineer's confirmation that such acceptance is in general accord with the design intent and applicable engineering principles, and will not endanger public safety). Contractor shall pay all claims, costs, losses, and damages attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness), and for the diminished value of the Work to the extent not otherwise paid by Contractor. If any such acceptance occurs prior to final payment, the necessary revisions in the Contract Documents with respect to the Work shall be incorporated in a Change Order. If the parties are unable to agree as to the decrease in the Contract Price, reflecting the diminished value of Work so accepted, then Owner may impose a reasonable set-off against payments due under Article 15. If the acceptance of defective Work occurs after final payment, Contractor shall pay an appropriate amount to Owner.

14.05 Uncovering Work

A. Engineer has the authority to require special inspection or testing of the Work, whether or not the Work is fabricated, installed, or completed.

- B. If any Work is covered contrary to the written request of Engineer, then Contractor shall, if requested by Engineer, uncover such Work for Engineer's observation, and then replace the covering, all at Contractor's expense.
- C. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, then 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, and provide all necessary labor, material, and equipment.
 - If it is found that the uncovered Work is defective, Contractor shall be responsible for all claims, costs, losses, and damages arising out of or relating 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 pending Contractor's full discharge of this responsibility the Owner shall be entitled to impose a reasonable set-off against payments due under Article 15.
 - 2. If the uncovered 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 both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, then Contractor may submit a Change Proposal within 30 days of the determination that the Work is not defective.

14.06 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, then 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.

14.07 Owner May Correct Defective 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, 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, then Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency.
- 3. In exercising the rights and remedies under this Paragraph 14.07, Owner shall proceed expeditiously. In connection with such corrective or 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, 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 Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this paragraph.
- C. All claims, costs, losses, and damages incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 14.07 will be charged against Contractor as setoffs against payments due under Article 15. 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 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 14.07.

ARTICLE 15 – PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD

15.01 Progress Payments

A. Basis for Progress Payments: The Schedule of Values established as provided in Article 2 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 during the pay period, as determined under the provisions of Paragraph 13.03. Progress payments for cost-based Work will be based on Cost of the Work completed by Contractor during the pay period.

B. Applications for Payments:

- 1. At least 20 days before the date established in the Agreement 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 Site 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 equipment free and clear of all Liens, and evidence that the materials and equipment are covered by appropriate property insurance, a warehouse bond, or other arrangements to protect Owner's interest therein, all of which must be satisfactory 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.
- 3. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

C. Review of Applications:

- Engineer will, within 10 days after receipt of each Application for Payment, including each resubmittal, either indicate in writing a recommendation of payment and present the Application to Owner, or return the Application to Contractor indicating in writing Engineer's reasons 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 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;
- 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, the results of any subsequent tests called for in the Contract Documents, a final determination of quantities and classifications for Unit Price Work under Paragraph 13.03, and any other qualifications stated in the recommendation); and
- c. 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:
 - 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; or
 - b. 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.
- 4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:
 - a. to supervise, direct, or control the Work, or
 - b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or
 - c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or
 - d. to make any examination to ascertain how or for what purposes Contractor has used the money paid on account of the Contract Price, or
 - e. to determine that title to any of the Work, materials, or 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 stated in Paragraph 15.01.C.2.
- 6. Engineer will recommend reductions in payment (set-offs) necessary in Engineer's opinion to protect Owner from loss because:
 - a. the Work is defective, requiring correction or replacement;
 - b. the Contract Price has been reduced by Change Orders;
 - c. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
 - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible; or

e. Engineer has actual knowledge of the occurrence of any of the events that would constitute a default by Contractor and therefore justify termination for cause under the Contract Documents.

D. Payment Becomes Due:

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended (subject to any Owner set-offs) will become due, and when due will be paid by Owner to Contractor.

E. Reductions in Payment by Owner:

- 1. In addition to any reductions in payment (set-offs) recommended by Engineer, Owner is entitled to impose a set-off against payment based on any of the following:
 - a. claims have been made against Owner on account of Contractor's conduct in the performance or furnishing of the Work, or Owner has incurred costs, losses, or damages on account of Contractor's conduct in the performance or furnishing of the Work, including but not limited to claims, costs, losses, or damages from workplace injuries, adjacent property damage, non-compliance with Laws and Regulations, and patent infringement;
 - Contractor has failed to take reasonable and customary measures to avoid damage, delay, disruption, and interference with other work at or adjacent to the Site;
 - c. Contractor has failed to provide and maintain required bonds or insurance;
 - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible;
 - e. Owner has incurred extra charges or engineering costs related to submittal reviews, evaluations of proposed substitutes, tests and inspections, or return visits to manufacturing or assembly facilities;
 - f. the Work is defective, requiring correction or replacement;
 - g. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
 - h. the Contract Price has been reduced by Change Orders;
 - an event that would constitute a default by Contractor and therefore justify a termination for cause has occurred;
 - j. liquidated damages have accrued as a result of Contractor's failure to achieve Milestones, Substantial Completion, or final completion of the Work;
 - 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;
 - I. there are other items entitling Owner to a set off against the amount recommended.
- If Owner imposes any set-off against payment, whether based on its own knowledge
 or on the written recommendations of Engineer, Owner will give Contractor
 immediate written notice (with a copy to Engineer) stating the reasons for such action
 and the specific amount of the reduction, 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, if Contractor remedies the reasons for such action. The reduction imposed shall be binding on Contractor unless it duly submits a Change Proposal contesting the reduction.

3. Upon a subsequent determination that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 15.01.C.1 and subject to interest as provided in the Agreement.

15.02 Contractor's Warranty of Title

A. Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Contract will pass to Owner free and clear of (1) all Liens and other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than seven days after the time of payment by Owner.

15.03 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 and request that Engineer issue a certificate of Substantial Completion. Contractor shall at the same time submit to Owner and Engineer an initial draft of punch list items to be completed or corrected before final payment.
- B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.
- C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a preliminary certificate of Substantial Completion which shall fix the date of Substantial Completion. Engineer shall attach to the certificate a punch list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the preliminary certificate during which to make written objection to Engineer as to any provisions of the certificate or attached punch list. If, after considering the objections to the provisions of the preliminary certificate, Engineer concludes that the Work is not substantially complete, Engineer will, within 14 days after submission of the preliminary certificate to Owner, notify Contractor in writing that the Work is not substantially complete, stating the reasons therefor. If Owner does not object to the provisions of the certificate, or if despite consideration of Owner's objections Engineer concludes that the Work is substantially complete, then Engineer will, within said 14 days, execute and deliver to Owner and Contractor a final certificate of Substantial Completion (with a revised punch list of items to be completed or corrected) reflecting such changes from the preliminary certificate as Engineer believes justified after consideration of any objections from Owner.
- D. At the time of receipt of the preliminary certificate of Substantial Completion, Owner and Contractor will confer regarding Owner's use or occupancy of the Work following Substantial Completion, review the builder's risk insurance policy with respect to the end of the builder's risk coverage, and confirm the transition to coverage of the Work under a permanent property insurance policy held by Owner. Unless Owner and Contractor agree otherwise in writing, Owner shall bear responsibility for security, operation, protection of the Work, property insurance, maintenance, heat, and utilities upon Owner's use or occupancy of the Work.

- E. After Substantial Completion the Contractor shall promptly begin work on the punch list of items to be completed or corrected prior to final payment. In appropriate cases Contractor may submit monthly Applications for Payment for completed punch list items, following the progress payment procedures set forth above.
- F. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the punch list.

15.04 Partial Use or Occupancy

- A. Prior to Substantial Completion of all the Work, Owner may use or occupy 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, subject to the following conditions:
 - At any time Owner may request in writing that Contractor permit Owner to use or occupy any such part of the Work that Owner believes to be substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner, and Engineer will follow the procedures of Paragraph 15.03.A through E for that part of the Work.
 - At any time Contractor may notify Owner and Engineer in writing that Contractor considers any such part of the Work substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.
 - 3. Within a reasonable time after either such request, Owner, Contractor, and 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 15.03 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.
 - 4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 6.05 regarding builder's risk or other property insurance.

15.05 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 notify Contractor in writing of all particulars in which this inspection reveals that the Work, or agreed portion thereof, is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

15.06 Final Payment

A. Application for Payment:

1. 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, guarantees, bonds, certificates or other evidence of insurance, certificates of

- inspection, annotated record documents (as provided in Paragraph 7.11), and other documents, Contractor may make application for final payment.
- 2. The final Application for Payment shall be accompanied (except as previously delivered) by:
 - a. all documentation called for in the Contract Documents;
 - b. consent of the surety, if any, to final payment;
 - c. satisfactory evidence that all title issues have been resolved such that title to all Work, materials, and equipment has passed to Owner free and clear of any Liens or other title defects, or will so pass upon final payment.
 - d. a list of all disputes that Contractor believes are unsettled; and
 - e. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of the Work, and of Liens filed in connection with the Work.
- 3. In lieu of the releases or waivers of Liens specified in Paragraph 15.06.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (a) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (b) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner might in any way be responsible, or which might in any way result in liens or other burdens on Owner's property, have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien, or Owner at its option may issue joint checks payable to Contractor and specified Subcontractors and Suppliers.
- B. Engineer's Review of Application and Acceptance:
 - 1. If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations under the Contract have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of final payment and present the Application for Payment to Owner for payment. Such recommendation shall account for any set-offs against payment that are necessary in Engineer's opinion to protect Owner from loss for the reasons stated above with respect to progress payments. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable, subject to the provisions of Paragraph 15.07. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.
- C. Completion of Work: The Work is complete (subject to surviving obligations) when it is ready for final payment as established by the Engineer's written recommendation of final payment.
- D. Payment Becomes Due: Thirty days after the presentation to Owner of the final Application for Payment and accompanying documentation, the amount recommended by Engineer (less any further sum Owner is entitled to set off against Engineer's recommendation,

including but not limited to set-offs for liquidated damages and set-offs allowed under the provisions above with respect to progress payments) will become due and shall be paid by Owner to Contractor.

15.07 Waiver of Claims

- A. The making of final payment will not constitute a waiver by Owner of claims or rights against Contractor. Owner expressly reserves claims and rights arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 15.05, from Contractor's failure to comply with the Contract Documents or the terms of any special guarantees specified therein, from outstanding Claims by Owner, or from Contractor's continuing obligations under the Contract Documents.
- B. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted or appealed under the provisions of Article 17.

15.08 Correction Period

- A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed 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, or if the repair of any damages to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas used by Contractor as permitted by Laws and Regulations, is found to be defective, then Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:
 - 1. correct the defective repairs to the Site or such other adjacent areas;
 - 2. correct such defective Work;
 - 3. if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and
 - 4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others, or to other land or areas resulting therefrom.
- B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. 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) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others).
- C. 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 run from an earlier date if so provided in the Specifications.
- D. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph, 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.

E. Contractor's obligations under this paragraph are in addition to all other obligations and warranties. The provisions of this paragraph shall not be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation or repose.

ARTICLE 16 – SUSPENSION OF WORK AND TERMINATION

16.01 Owner May Suspend Work

A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension. Any Change Proposal seeking such adjustments shall be submitted no later than 30 days after the date fixed for resumption of Work.

16.02 Owner May Terminate for Cause

- A. The occurrence of any one or more of the following events will constitute a default by Contractor and justify termination for cause:
 - 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);
 - 2. Failure of Contractor to perform or otherwise to comply with a material term of the Contract Documents:
 - 3. Contractor's disregard of Laws or Regulations of any public body having jurisdiction; or
 - 4. Contractor's repeated disregard of the authority of Owner or Engineer.
- B. If one or more of the events identified in Paragraph 16.02.A occurs, then after giving Contractor (and any surety) ten days written notice that Owner is considering a declaration that Contractor is in default and termination of the contract, Owner may proceed to:
 - 1. declare Contractor to be in default, and give Contractor (and any surety) notice that the Contract is terminated; and
 - 2. enforce the rights available to Owner under any applicable performance bond.
- C. Subject to the terms and operation of any applicable performance bond, if Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, 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 complete the Work as Owner may deem expedient.
- D. Owner may not proceed with termination of the Contract under Paragraph 16.02.B if Contractor within seven days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.
- E. If Owner proceeds as provided in Paragraph 16.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds the cost to complete the Work, including all related claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals) sustained by Owner, such excess will be paid to Contractor. If the cost to complete the Work including such related claims, costs, losses,

and damages exceeds such unpaid 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.

- F. 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 accrue, or any rights or remedies of Owner against Contractor or any surety under any payment bond or performance bond. Any retention or payment of money due Contractor by Owner will not release Contractor from liability.
- G. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 6.01.A, the provisions of that bond shall govern over any inconsistent provisions of Paragraphs 16.02.B and 16.02.D.

16.03 Owner May Terminate For Convenience

- A. Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):
 - 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;
 - 2. 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; and
 - 3. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.
- B. Contractor shall not be paid on account of loss of anticipated overhead, profits, or revenue, or other economic loss arising out of or resulting from such termination.

16.04 Contractor May Stop Work or Terminate

- A. If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (3) 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 16.03.
- 3. 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 made of all such amounts due Contractor, including interest thereon. The provisions of this paragraph are not intended to preclude Contractor from submitting a Change Proposal 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 17 – FINAL RESOLUTION OF DISPUTES

17.01 *Methods and Procedures*

- A. *Disputes Subject to Final Resolution*: The following disputed matters are subject to final resolution under the provisions of this Article:
 - A timely appeal of an approval in part and denial in part of a Claim, or of a denial in full; and
 - 2. Disputes between Owner and Contractor concerning the Work or obligations under the Contract Documents, and arising after final payment has been made.
- B. *Final Resolution of Disputes*: For any dispute subject to resolution under this Article, Owner or Contractor may:
 - 1. elect in writing to invoke the dispute resolution process provided for in the Supplementary Conditions; or
 - 2. agree with the other party to submit the dispute to another dispute resolution process; or
 - 3. if no dispute resolution process is provided for in the Supplementary Conditions or mutually agreed to, give written notice to the other party of the intent to submit the dispute to a court of competent jurisdiction.

ARTICLE 18 – MISCELLANEOUS

18.01 Giving Notice

- A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:
 - 1. delivered in person, by a commercial courier service or otherwise, to the individual or to a member of the firm or to an officer of the corporation for which it is intended; or
 - 2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the sender of the notice.

18.02 Computation of Times

A. When any period of time is referred to in the Contract 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.

18.03 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. 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.

18.04 Limitation of Damages

A. With respect to any and all Change Proposals, Claims, disputes subject to final resolution, and other matters at issue, neither Owner nor Engineer, nor any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, shall be liable to Contractor for any claims, costs, losses, or damages sustained by Contractor on or in connection with any other project or anticipated project.

18.05 No Waiver

A. A party's non-enforcement of any provision shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this Contract.

18.06 Survival of Obligations

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

18.07 Controlling Law

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

18.08 Headings

A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

Supplementary Conditions

These Supplementary Conditions amend or supplement the Standard General Conditions of the Construction Contract, EJCDC® C-700 (2013 Edition). All provisions that are not so amended or supplemented remain in full force and effect.

The terms used in these Supplementary Conditions have the meanings stated in the General Conditions. Additional terms used in these Supplementary Conditions have the meanings stated below, which are applicable to both the singular and plural thereof.

The address system used in these Supplementary Conditions is the same as the address system used in the General Conditions, with the prefix "SC" added thereto.

ARTICLE 1 – DEFINITIONS AND TERMINOLOGY

SC 1.01.A.8 Add the following language at the end of last sentence of Paragraph 1.01.A.8:

The Change Order form to be used on this Project is EJCDC C-941.

SC 1.01.A.32 Add the following language after the word "Engineer":

or Owner

SC 1.01.A.48 Add the following language at the end of the last sentence of Paragraph 1.01.A.48:

A Work Change Directive cannot change Contract Price or Contract Times without a subsequent Change Order.

SC 1.01.A.49 Add the following new Paragraph after Paragraph 1.01.A.48:

Abnormal Weather Conditions – Conditions of extreme or unusual weather for a given region, elevation, or season as determined by Engineer. Extreme or unusual weather that is typical for a given region, elevation, or season should not be considered Abnormal Weather Conditions.

ARTICLE 2 – PRELIMINARY MATTERS

SC-2.01 Delete Paragraphs 2.01 B. and C. in their entirety and insert the following in their place:

- B. Evidence of Contractor's Insurance: When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner copies of the policies of insurance (including all endorsements, and identification of applicable self-insured retentions and deductibles) required to be provided by Contractor in Article 6. Contractor may block out (redact) any confidential premium or pricing information contained in any policy or endorsement furnished under this provision.
- C. Evidence of Owner's Insurance: After receipt from Contractor of the executed counterparts of the Agreement and all required bonds and insurance documentation, Owner shall promptly deliver to Contractor copies of the policies of insurance to be provided by Owner under Article 6 (if any). Owner may block

out (redact) any confidential premium or pricing information contained in any policy or endorsement furnished under this provision.

SC 2.02.A Amend Paragraph 2.02.A. by striking out the following words:

and one copy in electronic portable document format (PDF).

SC 2.02 Delete Paragraph 3.01C in its entirety.

ARTICLE 4 – COMMENCEMENT AND PROGRESS OF THE WORK

SC 4.01.A Amend the last sentence of Paragraph 4.01.A by striking out the following words:

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 Contract, whichever date is earlier.

SC 4.05.C.2 Amend Paragraph 4.05.C.2 by striking out the following text: "abnormal weather conditions;" and inserting the following text:

Abnormal Weather Conditions;

ARTICLE 5 – AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS

SC-5.03 Add the following new paragraphs immediately after Paragraph 5.03.B:

- C. The following reports of explorations and tests of subsurface conditions at or adjacent to the Site are known to Owner:
 - 1. See Exhibit A Geotechnical Information
- D. No additional reports or explorations or tests of subsurface conditions at or contiguous to the Site are known to the Owner or Engineer.

SC 5.06 Delete Paragraphs 5.06.A and 5.06.B in their entirety and insert the following:

- A. No reports or drawings related to Hazardous Environmental Conditions at the Site are known to Owner.
- B. Not Used.

ARTICLE 6 - BONDS AND INSURANCE

SC 6.03 Insurance Limits

The limits of liability for the insurance required by Article 6 of the General Conditions shall provide coverage for not less than the following amounts or greater where required by Laws and Regulations. The Owner and Engineer shall each be named as additional insured under the Contractor's general liability policy(s):

TYPE OF INSURANCE	LIMITS		
 GENERAL LIABILITY Commercial General Liability Claims Made / Occur. Owner's & Contractor Prot. 	General Aggregate	\$	2,000,000
	Products-Comp/Op Agg.	\$	1,000,000
	Personal & Adv. Injury	\$	1,000,000
	Each Occurrence	\$	1,000,000
	Fire Damage (Any one fire)	\$	100,000
	Med. Expense (Any one person)	\$	10,000
AUTO LIABILITY Any Auto All owned Autos Scheduled Autos Hired Autos Non-Owned Autos Garage Liability	Combined Single Limit	\$	1,000,000
	Bodily Injury (Per Person)	\$	1,000,000
	Bodily Injury (Per Accident)	\$	1,000,000
	Property Damage	\$	1,000,000
EXCESS LIABILITY • Umbrella Form • Other than Umbrella Form	Each Occurrence	\$	1,000,000
	Aggregate	\$	5,000,000
WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY	Statutory Limits		
	Each Accident	\$	100,000
	Disease-Policy Limit	\$	500,000
	Disease-Each Employee	\$	100,000
OTHER Owner's Protective Liability (separate policy)	Each Occurrence	\$	2,000,000
	Aggregate	\$	2,000,000

ARTICLE 7 – CONTRACTOR'S RESPONSIBILITIES

SC 7.04.A Amend the third sentence of Paragraph 7.04.A by striking out the following words:

Unless the specification or description contains or is followed by words reading that no like, equivalent, or 'or-equal' item is permitted.

SC 7.04.A.1 Amend the last sentence of Paragraph a.3 by striking out "and;" and adding a period at the end of Paragraph a.3.

SC 7.04.A.1 Delete paragraph 7.04.A.1.a.4 in its entirety and insert the following in its place:

[Deleted]

SC 7.06.A Amend Paragraph 7.06.A by adding the following text to the end of the Paragraph:

The Contractor shall not award work valued at more than fifty percent of the Contract Price to Subcontractor(s), without prior written approval of the Owner.

SC 7.06.B Delete paragraph 7.06.B in its entirety and insert the following in its place:

[Deleted]

SC 7.06.E Amend the second sentence of Paragraph 7.06.E by striking out "Owner may also require Contractor to retain specific replacements; provided, however, that".

SC 7.09 Add a new paragraph immediately after Paragraph 7.09.A:

- B. Owner is exempt from payment of sales and compensating use taxes of the State of Massachusetts and of cities and counties thereof on all materials to be incorporated into the Work.
 - 1. Owner will furnish the required certificates of tax exemption to Contractor for use in the purchase of supplies and materials to be incorporated into the Work.
 - 2. Owner's exemption does not apply to construction tools, machinery, equipment, or other property purchased by or leased by Contractor, or to supplies or materials not incorporated into the Work.

ARTICLE 11- AMENDING THE CONTRACT DOCUMENTS; CHANGES IN THE WORK

- SC 11.04 Add the following new subparagraphs immediately after subparagraph 11.04.B.3. as required by MGL Chapter 30, Section 38A *Price adjustment clause in contracts for road, bridge, water and sewer projects awarded.*
 - 4. Monthly Price Adjustments for Certain Materials: As required by Massachusetts Chapter 150 of the Acts of 2013, the following price adjustment clauses for fuel (both diesel and gasoline), liquid asphalt and Portland cement contained in cast-in-place concrete shall be applicable to the Project. The following <u>Base Prices</u> are established for the Project, based on period prices shown below as published by the Massachusetts Department of Transportation at https://www.mass.gov/info-details/massdot-current-contract-price-adjustments

Liquid Asphalt - \$572.50 per TON (February 2025),

Diesel – \$2.980 per GALLON (January 2025),

Gasoline - \$2.426 per GALLON (January 2025),

Portland Cement - \$425.53 per TON (January 2025)

a. **Monthly Price Adjustment for Hot Mix Asphalt (HMA) Mixtures**: This adjustment will provide for either additional compensation to the Contractor or repayment to the Owner, depending on an increase or decrease in the Period Price of Liquid Asphalt

<u>Base Price:</u> The Base Price of liquid asphalt listed above is the fixed price determined at the time of Bid by the Owner by using the same method as for the determination of the Period Price detailed below.

<u>Price Adjustment</u>: The Price Adjustment will be based on the variance in price for the liquid asphalt component only from the Base Price to the Period Price. It shall not include transportation or other charges. This Price Adjustment will occur on a monthly basis.

Period Price: The Period Price for this Contract shall be the Liquid Asphalt Period Price, per Ton.

Applicability: The Price Adjustment applies only to the actual virgin liquid asphalt content in the mixture placed on the Project in accordance with the Contract Documents.

Payment/Credit of Price Adjustment: The Contract Price of the hot mix asphalt mixture will be paid under the respective items in the Contract. The price adjustment, as herein provided, upwards or downwards, will be made after the Work has been performed, using the monthly Period Price for the month during which the Work was performed. The Price Adjustment will be a separate payment item and processed by Change Order. It will be determined by multiplying the number of tons of hot mix asphalt mixtures placed within pay limits during each monthly period as shown on submitted certified weigh slips times the liquid asphalt content percentage times the variance in price between Base Price and Period Price of liquid asphalt. This Price Adjustment will be paid or credited if the variance from the Base Price is 5 percent or more for a monthly period. No further Price Adjustments will be processed after the Contract is finally complete, unless an extension of Contract Time is approved by the Owner.

b. **Monthly Price Adjustment for Diesel Fuel and Gasoline:** This adjustment will provide for either additional compensation to the Contractor or repayment to the Owner, depending on an increase or decrease in the Period Price of Diesel Fuel or Gasoline.

Base Price: The Base Price of Diesel Fuel and Gasoline listed above is the fixed price determined at the time of Bid by the Owner by using the same method as for the determination of the Period Price detailed below.

Price Adjustment: The Price Adjustment will be based on the variance in price from the Base Price to the Period Price.

Period Price: The Period Price for this Contract shall be the current Diesel Period Price and Gasoline Period Price per Gallon.

Applicability: The fuel price adjustment will apply to the overall Project.

Payment/Credit of Price Adjustment: The Price Adjustment will be a separate payment item and processed by Change Order. The price adjustment, as herein provided, upwards or downwards, will be made after the Work has been performed, using the monthly Period Price for the month during which the Work was performed. This Price Adjustment will be paid or credited if the variance from the Base Price is 5 percent or more for a monthly period. No further Price Adjustments will be processed after the Contract is finally complete, unless an extension of Contract Time is approved by the Owner.

c. Monthly Price Adjustment for Portland Cement Concrete Mixes: This adjustment will provide for either additional compensation to the Contractor or repayment to the Owner, depending on an increase or decrease in the Period Price of Diesel Fuel or Gasoline.

<u>Base Price</u>: The Base Price of Portland Cement listed above is the fixed price determined at the time of Bid by the Owner by using the same method as for the determination of the Period Price detailed below.

<u>Price Adjustment</u>: The Price Adjustment will be based on the variance in price for the Portland cement component only from the Base Price to the Period Price. It shall not include transportation or other charges. The price adjustment will occur on a monthly basis.

Period Price: The Period Price for this Contract shall be the current Portland Cement Period Price and Gasoline Period Price per Ton.

Applicability: The price adjustment applies only to the actual Portland cement content in the mix placed on the Project in accordance with the Contract Documents.

Payment/Credit of Price Adjustment: The Contract Price of the Portland cement content in the mix will be paid under the respective items in the Contract. The price adjustment, as herein provided, upwards or downwards, will be made after the Work has been performed, using the monthly Period Price for the month during which the Work was performed. The Price Adjustment will be a separate payment item and processed by Change Order. It will be determined by multiplying the number of cubic yards of Portland cement concrete placed during each monthly period times the Portland cement content percentage times the variance in price between the Base Price and Period Price of Portland cement. This Price Adjustment will be paid or credited if the variance from the Base Price is 5 percent or more for a monthly period. No further Price Adjustments will be processed after the Contract is finally complete, unless an extension of Contract Time is approved by the Owner.

ARTICLE 13 – COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

SC 13.02.C Delete Paragraph 13.02.C in its entirety.

ARTICLE 14 - TEST AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFFECTIVE WORK

SC 14.02.B Amend the first sentence of Paragraph B by striking out "Owner shall retain and pay for" and inserting "Contractor shall retain and pay for".

ARTICLE 15 – PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD

SC 15.01.B Amend the second sentence of Paragraph 15.01.B.1 by striking out the following text: "a bill of sale, invoice, or other."

SC 15.01.B.3 Add the following language at the end of paragraph 15.01.B.3:

No payments will be made that would deplete the retainage, place in escrow any funds that are required for retainage, or invest the retainage for the benefit of the Contractor.

SC 15.01.B.4 Add the following new Paragraph after Paragraph 15.01.B.3:

The Application for Payment form to be used on this Project is EJCDC C-620.

SC 15.02.A Amend Paragraph 15.02.A by striking out the following text: "no later than seven days after the time of payment by Owner" and insert "no later than the time of payment by Owner."

ARTICLE 18 - MISCELLANEOUS

SC 18.04 Add the following after paragraph 18.04.A.

- 17.06 It is hereby understood and mutually agreed, by and between Contractor and Owner, that the date of beginning and the time for completion as specified in the Agreement of the work to be done hereunder are ESSENTIAL CONDITIONS of this Contract; and it is further mutually understood and agreed that the Work embraced in this Agreement shall be commenced on a date to be specified in the Notice to Proceed.
- 17.07 Contractor agrees that said Work shall be prosecuted regularly, diligently and uninterruptedly at such rate of progress as will insure full completion thereof within the time specified. It is expressly understood and agreed, by and between Contractor and Owner, that the time for the completion of the Work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.
- 17.08 If said Contractor shall neglect, fail or refuse to complete the Work within the time herein specified, or any proper extension thereof granted by Owner, then the Contractor does hereby agree, as a part consideration for the awarding of this Agreement to pay to Owner the amount specified in the Agreement, not as a penalty but as Liquidated Damages for such breach of Agreement as hereinafter set forth, for each and every calendar day that Contractor shall be in default after the time stipulated in the Agreement for completing the Work.
- 17.09 The said amount is fixed and agreed upon by and between Contractor and Owner because of the impracticality and extreme difficulty of fixing and ascertaining the actual damages Owner would in event sustain, and said amount shall be retained from time to time by the Owner from current periodical estimates.
- 17.10 It is further agreed that time is of the essence of each and every portion of this Agreement and of the Specifications wherein a definite and certain length of time is 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 Agreement, provided that Contractor shall not be charged with Liquidated Damages or any excess cost when the delay in completion of the Work is due:

- A To any preference, priority or allocation order duly issued by the Government;
- B To unforeseeable cause beyond the control and without the fault or negligence of Contractor, including, but not restricted to acts of God, or of the public enemy, acts of the Owner, acts of another contractor, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather;

Part II – State Government Provisions

1.0

END OF SUPPLEMENTARY CONDITIONS

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39F CONSTRUCTION CONTRACTS; ASSIGNMENT AND

SUBROGATION; SUBCONTRACTOR DEFINED; ENFORCEMENT OF CLAIM FOR DIRECT PAYMENT; DEPOSIT, REDUCTION OF

DISPUTED AMOUNTS

Section 39F. (1) Every contract awarded pursuant to sections forty-four A to L, inclusive, of chapter one hundred and forty-nine shall contain the following subparagraphs (a) through (i) and every contract awarded pursuant to section thirty-nine M of chapter thirty shall contain the following subparagraphs (a) through (h) and in each case those subparagraphs shall be binding between the general contractor and each subcontractor.

(a) Forthwith after the general contractor receives payment on account of a periodic estimate, the general contractor shall pay to each subcontractor the amount paid for the labor performed and the materials furnished by that subcontractor, 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.

- (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 awarding authority as the estimated cost of completing the incomplete and unsatisfactory items of work, shall be due the subcontractor; and the awarding authority shall pay that amount to the general contractor. The general contractor shall forthwith pay to the subcontractor the full amount received from the awarding authority 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 awarding authority to the general contractor 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 awarding authority shall take reasonable steps to compel the general contractor to make each such payment to each such subcontractor. If the awarding authority 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 or which is to be included in a payment to the general contractor for payment to the subcontractor as provided in subparagraphs (a) and (b), the awarding authority shall act upon the demand as provided in this section.
- (d) If, within seventy days after the subcontractor has substantially completed the 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 awarding authority as the estimated cost of completing the incomplete and unsatisfactory items of

work, the subcontractor may demand direct payment of that balance from the awarding authority. The demand shall be by a sworn statement delivered to or sent by certified mail to the awarding authority, 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 awarding authority and delivered or so mailed a copy to the general contractor, the general contractor may reply to the demand. The reply shall be by a sworn statement delivered to or sent by certified mail to the awarding authority and a copy shall be delivered to or sent by certified mail to the subcontractor 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 awarding authority, 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 including any amount due for extra labor and materials furnished to the general contractor, less any amount (i) retained by the awarding authority 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 awarding authority 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 by subparagraph (d). The awarding authority 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 awarding authority 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 awarding authority or agreed upon by the general contractor and the subcontractor and shall notify the general contractor and the subcontractor of the date of the deposit and the bank receiving the deposit. The bank shall pay the amount in 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 the order of receipt of such demands from subcontractors. All direct payments shall discharge the obligation of the awarding authority to the general contractor to the extent of such payment.

- (h) The awarding authority 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 payment 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.
- (i) If the subcontractor does not receive payment as provided in subparagraph (a) or if the general contractor does not submit a periodic estimate for the value of the labor or materials performed or furnished by the subcontractor and the subcontractor does not receive payment for same when due less the deductions provided for in subparagraph (a), the subcontractor may demand direct payment by following the procedure in subparagraph (d) and the general contractor may file a sworn reply as provided in that same subparagraph. A demand made after the first day of the month following that for which the subcontractor performed or furnished the labor and materials for which the subcontractor seeks payment shall be valid even if delivered or mailed prior to the time payment was due on a periodic estimate from the general contractor. Thereafter the awarding authority shall proceed as provided in subparagraph (e), (f), (g) and (h).
- (2) Any assignment by a subcontractor of the rights under this section to a surety company furnishing a bond under the provisions of section twenty-nine of chapter one hundred forty-nine shall be invalid. The assignment and subrogation rights of the surety to amounts included in a demand for direct payment which are in the possession of the awarding authority or which are on deposit pursuant to subparagraph (f) of

- paragraph (1) shall be subordinate to the rights of all subcontractors who are entitled to be paid under this section and who have not been paid in full.
- (3) "Subcontractor" as used in this section (i) for contracts awarded as provided in sections forty-four A to forty-four H, inclusive, of chapter one hundred forty-nine shall mean a person who files a sub-bid and receives a subcontract as a result of that filed sub-bid or who is approved by the awarding authority in writing as a person performing labor or both performing labor and furnishing materials pursuant to a contract with the general contractor, (ii) for contracts awarded as provided in paragraph (a) of section thirty-nine M of chapter thirty shall mean a person approved by the awarding authority in writing as a person performing labor or both performing labor and furnishing materials pursuant to a contract with the general contractor, and (iii) for contracts with the commonwealth not awarded as provided in forty-four A to forty-four H, inclusive, of chapter one hundred forty-nine shall also mean a person contracting with the general contractor to supply materials used or employed in a public works project for a price in excess of five thousand dollars.
- (4) A general contractor or a subcontractor shall enforce a claim to any portion of the amount of a demand for direct payment deposited as provided in subparagraph (f) of paragraph 1 by a petition in equity in the superior court against the other and the bank shall not be a necessary party. A subcontractor shall enforce a claim for direct payment or a right to require a deposit as provided in subparagraph (f) of paragraph 1 by a petition in equity in the superior court against the awarding authority and the general contractor shall not be a necessary party. Upon motion of any party the court shall advance for speedy trial any petition filed as provided in this paragraph. Sections fifty-nine and fifty-nine B of chapter

two hundred thirty-one shall apply to such petitions. The court shall enter an interlocutory decree upon which execution shall issue for any part of a claim found due pursuant to sections fifty-nine and fifty-nine B and, upon motion of any party, shall advance for speedy trial the petition to collect the remainder of the claim. Any party aggrieved by such interlocutory decree shall have the right to appeal therefrom as from a final decree. The court shall not consolidate for trial the petition of any subcontractor with the petition of one or more subcontractors or the same general contract unless the court finds that a substantial portion of the evidence of the same events during the course of construction (other than the fact that the claims sought to be consolidated arise under the same general contract) is applicable to the petitions sought to be consolidated and that such consolidation will prevent unnecessary duplication of evidence. A decree in any such proceeding shall not include interest on the disputed amount deposited in excess of the interest earned for the period of any such deposit. No person except a subcontractor filing a demand for direct payment for which no funds due the general contractor are available for direct payment shall have a right to file a petition in court of equity against the awarding authority claiming a demand for direct payment is premature and such subcontractor must file the petition before the awarding authority has made a direct payment to the subcontractor and has made a deposit of the disputed portion as provided in part (iii) of subparagraph (e) and in subparagraph (f) of paragraph (1).

(5) In any petition to collect any claim for which a subcontractor has filed a demand for direct payment the court shall, upon motion of the general contractor, reduce by the amount of any deposit of a disputed amount by

the awarding authority as provided in part (iii) of subparagraph (e) and in subparagraph (f) of paragraph (1) any amount held under a trustee writ or pursuant to a restraining order or injunction.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39G COMPLETION OF PUBLIC WORKS; SEMI-FINAL AND FINAL

ESTIMATES; PAYMENTS; EXTRA WORK; DISPUTED ITEMS

Section 39G. Upon substantial completion of the work required by a contract with the commonwealth, or any agency or political subdivision thereof, for the construction, reconstruction, alteration, remodeling, repair or improvement of public ways, including bridges and other highway structures, sewers and, water mains, airports and other public works, the contractor shall present in writing to the awarding authority its certification that the work has been substantially completed. Within twenty-one days thereafter, the awarding authority shall present to the contractor either a written declaration that the work has been substantially completed or an itemized list of incomplete or unsatisfactory work items required by the contract sufficient to demonstrate that the work has not been substantially completed. The awarding authority may include with such list a notice setting forth a reasonable time, which shall not in any event be prior to the contract completion date, within which the contractor must achieve substantial completion of the work. In the event that the awarding authority fails to

respond, by presentation of a written declaration or itemized list as aforesaid, to the contractor's certification within the twenty-one day period, the contractor's certification shall take effect as the awarding authority's declaration that the work has been substantially completed.

Within sixty-five days after the effective date of a declaration of a substantial completion, the awarding authority shall prepare and forthwith send to the contractor for acceptance a substantial completion estimate for the quantity and price of the work done and all but one per cent retainage, if held by the awarding authority, on that work, including the quantity, price and all but one per cent retainage, if held by the awarding authority, for the undisputed part of each work item and extra work item in dispute but excluding the disputed part thereof, less the estimated cost of completing all incomplete and unsatisfactory work items and less the total periodic payments made to date for the work. The awarding authority also shall deduct from the substantial completion estimate an amount equal to the sum of all demands for direct payment filed by subcontractors and not yet paid to subcontractors or deposited in joint accounts pursuant to section thirty-nine F, but no contract subject to said section thirty-nine F shall contain any other provision authorizing the awarding authority to deduct any amount by virtue of claims asserted against the contract by subcontractors, material suppliers or others.

If the awarding authority fails to prepare and send to the contractor any substantial completion estimate required by this section on or before the date herein above set forth, the awarding authority shall pay to the contractor interest on the amount which would have been due to the contractor pursuant to such substantial completion estimate at the rate of three percentage points above the rediscount rate then charged by the Federal Reserve Bank of Boston from such date to the date on which the

awarding authority sends that substantial completion estimate to the contractor for acceptance or to the date of payment therefor, whichever occurs first. The awarding authority shall include the amount of such interest in the substantial completion estimate.

Within fifteen days after the effective date of the declaration of substantial completion, the awarding authority shall send to the contractor by certified mail, return receipt requested, a complete list of all incomplete or unsatisfactory work items, and, unless delayed by causes beyond his control, the contractor shall complete all such work items within forty-five days after the receipt of such list or before the then contract completion date, whichever is later. If the contractor fails to complete such work within such time, the awarding authority may, subsequent to seven days' written notice to the contractor by certified mail, return receipt requested, terminate the contract and complete the incomplete or unsatisfactory work items and charge the cost of same to the contractor.

Within thirty days after receipt by the awarding authority of a notice from the contractor stating that all of the work required by the contract has been completed, the awarding authority shall prepare and forthwith send to the contractor for acceptance a final estimate for the quantity and price of the work done and all retainage, if held by the awarding authority, on that work less all payments made to date, unless the awarding authority's inspection shows that work items required by the contract remain incomplete or unsatisfactory, or that documentation required by the contract has not been completed. If the awarding authority fails to prepare and send to the contractor the final estimate within thirty days after receipt of notice of completion, the awarding authority shall pay to the contractor interest on the amount which would have been due to the

contractor pursuant to such final estimate at the rate hereinabove provided from the thirtieth day after such completion until the date on which the awarding authority sends the final estimate to the contractor for acceptance or the date of payment therefor, whichever occurs first, provided that the awarding authority's inspection shows that no work items required by the contract remain incomplete or unsatisfactory. Interest shall not be paid hereunder on amounts for which interest is required to be paid in connection with the substantial completion estimate as hereinabove provided. The awarding authority shall include the amount of the interest required to be paid hereunder in the final estimate.

The awarding authority shall pay the amount due pursuant to any substantial completion or final estimate within thirty-five days after receipt of written acceptance for such estimate from the contractor and shall pay interest on the amount due pursuant to such estimate at the rate hereinabove provided from that thirty-fifth day to the date of payment. Within 15 days, 30 days in the case of the commonwealth, after receipt from the contractor, at the place designated by the awarding authority, if such place is so designated, of a periodic estimate requesting payment of the amount due for the preceding periodic estimate period, the awarding authority shall make a periodic payment to the contractor for the work performed during the preceding periodic estimate period 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 the contractor to transfer title to the awarding authority, upon certification by the contractor that he is the lawful owner and that the materials are free from all encumbrances. The awarding authority shall include with each such payment interest on the amount due pursuant to

such periodic estimate at the rate herein above provided from the due date. In the case of periodic payments, the contracting authority may deduct from its payment a retention based on its estimate of the fair value of its claims against the contractor, a retention for direct payments to subcontractors based on demands for same in accordance with the provisions of section thirty-nine F, and a retention to secure satisfactory performance of the contractual work not exceeding five per cent of the approved amount of any periodic payment, and the same right to retention shall apply to bonded subcontractors entitled to direct payment under section thirty-nine F of chapter thirty; provided, that a five per cent value of all items that are planted in the ground shall be deducted from the periodic payments until final acceptance.

No periodic, substantial completion or final estimate or acceptance or payment thereof shall bar a contractor from reserving all rights to dispute the quantity and amount of, or the failure of the awarding authority to approve a quantity and amount of, all or part of any work item or extra work item.

Substantial completion, for the purposes of this section, shall mean either that the work required by the contract has been completed except for work having a contract price of less than one per cent of the then adjusted total contract price, or substantially all of the work has been completed and opened to public use except for minor incomplete or unsatisfactory work items that do not materially impair the usefulness of the work required by the contract.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39I DEVIATIONS FROM PLANS AND SPECIFICATIONS

Section 39I. Every contractor having a contract for the construction, alteration, maintenance, repair or demolition of, or addition to, any public building or public works for the commonwealth, or of any political subdivision thereof, shall perform all the work required by such contract in conformity with the plans and specifications contained therein. No wilful and substantial deviation from said plans and specifications shall be made unless authorized in writing by the awarding authority or by the engineer or architect in charge of the work who is duly authorized by the awarding authority to approve such deviations. In order to avoid delays in the prosecution of the work required by such contract such deviation from the plans or specifications may be authorized by a written order of the awarding authority or such engineer or architect so authorized to approve such deviation. Within thirty days thereafter, such written order shall be confirmed by a certificate of the awarding authority stating: (1) If such deviation involves any substitution or elimination of materials, fixtures or equipment, the reasons why such materials, fixtures or equipment were included in the first instance and the reasons for

substitution or elimination, and, if the deviation is of any other nature, the reasons for such deviation, giving justification therefor; (2) that the specified deviation does not materially injure the project as a whole; (3) that either the work substituted for the work specified is of the same cost and quality, or that an equitable adjustment has been agreed upon between the contracting agency and the contractor and the amount in dollars of said adjustment; and (4) that the deviation is in the best interest of the contracting authority.

Such certificate shall be signed under the penalties of perjury and shall be a permanent part of the file record of the work contracted for.

Whoever violates any provision of this section wilfully and with intent to defraud shall be punished by a fine of not more than five thousand dollars or by imprisonment for not more than six months, or both.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39J PUBLIC CONSTRUCTION CONTRACTS; EFFECT OF

DECISIONS OF CONTRACTING BODY OR ADMINISTRATIVE

BOARD

Section 39J. Notwithstanding any contrary provision of any contract for the construction, reconstruction, alteration, remodeling, repair or demolition of any public building or public works by the commonwealth, or by any county, city, town, district, board, commission or other public body, when the amount of the contract is more than five thousand dollars in the case of the commonwealth and more than two thousand dollars in the case of any county, city, town, district, board, commission or other public body, a decision, by the contracting body or by any administrative board, official or agency, or by any architect or engineer, on a dispute, whether of fact or of law, arising under said contract shall not be final or conclusive if such decision is made in bad faith, fraudulently, capriciously, or arbitrarily is unsupported by substantial evidence, or is based upon error of law.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39L PUBLIC CONSTRUCTION WORK BY FOREIGN

CORPORATIONS; RESTRICTIONS AND REPORTS

Section 39L. The commonwealth and every county, city, town, district, board, commission or other public body which, as the awarding authority, requests proposals, bids or sub-bids for any work in the construction, reconstruction, alteration, remodeling, repair or demolition of any public building or other public works (1) shall not enter into a contract for the work with, and shall not approve as a subcontractor furnishing labor and materials for a part of the work, a foreign corporation which has not filed with the awarding authority a certificate of the state secretary stating that the corporation has complied with requirements of section 15.03 of subdivision A of Part 15 of chapter 156D and the date of compliance, and further has filed all annual reports required by section 16.22 of subdivision B of Part 16 of said chapter 156D, and (2) shall report to the state secretary and to the department of corporations and taxation any foreign corporation performing work under such contract or subcontract,

and any person, other than a corporation, performing work under such contract or subcontract, and residing or having a principal place of business outside the commonwealth.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39M CONTRACTS FOR CONSTRUCTION AND MATERIALS:

MANNER OF AWARDING

Section 39M. (a) Every contract for the construction, reconstruction, alteration, remodeling or repair of any public work, or for the purchase of any material, as hereinafter defined, by the commonwealth, or political subdivision thereof, or by any county, city, town, district or housing authority that is and estimated by the awarding authority to cost less than \$10,000 dollars shall be obtained through the exercise of sound business practices as defined in section 2 of chapter 30B. The awarding authority shall make and keep a record of each procurement that, at a minimum, shall include the name and address of the person from whom the services were procured. An awarding authority that utilizes a vendor on a statewide contract procured through the operational services division, or a blanket contract procured by the awarding authority pursuant to this section, shall be deemed to have obtained the contract through sound business practices.

Every contract for the construction, reconstruction, alteration, remodeling or repair of any public work, or for the purchase of any material, as hereinafter defined, by the commonwealth, or political subdivision thereof, or by any county, city, town, district or housing authority that is estimated by the awarding authority to cost not less than \$10,000 but not more than \$50,000 shall be awarded to the responsible bidder offering to perform the contract at the lowest price. The awarding authority shall make public notification of the contract and shall seek written responses from no fewer than 3 persons who customarily perform such work. For purposes of this subsection, the term "public notification" shall include, but need not be limited to, posting, at least 2 weeks before the time specified in the notification for the receipt of responses, the contract and scope-of-work statement: (1) on the website of the awarding authority, (2) on the COMMBUYS system administered by the operational services division, (3) in the central register published pursuant to section 20A of chapter 9 and (4) in a conspicuous place in or near the primary office of the awarding authority; provided, however, that if the awarding authority obtains a minimum of 2 written responses from a vendor list established through a blanket contract or a statewide contract procured through the operational services division, and the lowest of those written responses is deemed acceptable to the awarding authority, public notification is not required. The solicitation shall include a scope-of-work statement that defines the work to be performed and provides potential responders with sufficient information regarding the objectives and requirements of the awarding authority and the time period within which the work shall be completed. The awarding authority shall record the names and addresses

of all persons from whom written responses were sought, the names of the persons submitting written responses and the date and amount of each written response.

An awarding authority may utilize a vendor list established through a statewide contract procured through the operational services division to identify 1 or more of the persons from whom it will seek written responses for purposes of this subsection. An awarding authority may also procure a blanket contract to establish a listing of vendors in certain defined categories of work that are under contract to provide services for multiple individual tasks of not more than \$50,000 each, and from whom written responses will be sought. Any such blanket contract procured by the awarding authority shall be procured pursuant to this section or sections 44A to 44J, inclusive, of chapter 149 which are applicable to projects over \$50,000.

Every contract for the construction, reconstruction, alteration, remodeling or repair of any public work, or for the purchase of any material, as hereinafter defined, by the commonwealth, or political subdivision thereof, or by any county, city, town, district or housing authority that is estimated by the awarding authority to cost more than \$50,000, and every contract for the construction, reconstruction, installation, demolition, maintenance or repair of any building by a public agency, as defined by subsection (1) of section 44A of chapter 149, estimated to cost more than \$50,000 but not more than \$150,000, shall be awarded to the lowest eligible responsible bidder on the basis of competitive bids publicly opened and read by the awarding authority forthwith upon expiration of the time for the filing thereof; provided, however, that such awarding authority may reject any and all bids, if it is in the public interest to do so. Every bid for such contract shall be accompanied by a bid deposit in the

form of: (1) a bid bond, (2) cash, or (3) a certified check on, or a treasurer's or cashier's check issued by, a responsible bank or trust company, payable to the awarding authority. The amount of the bid deposit shall be 5 per cent of the value of the bid. Any person submitting a bid pursuant to this section shall, on such bid, certify as follows:

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

(Name of person signing bid)

(Company)

This subsection shall not apply to the award of any contract subject to the provisions of sections 44A to 44J, inclusive, of chapter 149 and every such contract shall continue to be awarded as provided therein. In cases of extreme emergency: (1) caused by enemy attack, sabotage or other such hostile actions or (2) resulting from an imminent security threat explosion, fire, flood, earthquake, hurricane, tornado or other such catastrophe, an awarding authority may, without competitive bids and notwithstanding any general or special law, award contracts otherwise subject to this subsection to perform work and to purchase or rent materials and equipment, all as may be necessary for temporary repair and restoration to service of any and all public work in order to preserve the health and safety of persons or property; provided, that this exception shall not apply to any permanent reconstruction, alteration, remodeling or repair of any public work.

- (b) Specifications for such contracts, and specifications for contracts awarded pursuant to the provisions of said sections forty-four A to fortyfour L of said chapter one hundred and forty-nine, shall be written to provide for full competition for each item of material to be furnished under the contract; except, however, that said specifications may be otherwise written for sound reasons in the public interest stated in writing in the public records of the awarding authority or promptly given in writing by the awarding authority to anyone making a written request therefor, in either instance such writing to be prepared after reasonable investigation. Every such contract shall provide that an item equal to that named or described in the said specifications may be furnished; and an item shall be considered equal to the item so named or described if, in the opinion of the awarding authority: (1) it is at least equal in quality, durability, appearance, strength and design, (2) it will perform at least equally the function imposed by the general design for the public work being contracted for or the material being purchased, and (3) it conforms substantially, even with deviations, to the detailed requirements for the item in the said specifications. For each item of material the specifications shall provide for either a minimum of three named brands of material or a description of material which can be met by a minimum of three manufacturers or producers, and for the equal of any one of said name or described materials.
- (c) The term "lowest responsible and eligible bidder" shall mean the bidder: (1) whose bid is the lowest of those bidders possessing the skill, ability and integrity necessary for the faithful performance of the work; (2) who shall certify, that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (3) who shall certify that all employees to be employed at the

worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; (4) who, where the provisions of section 8B of chapter 29 apply, shall have been determined to be qualified thereunder; and (5) who obtains within 10 days of the notification of contract award the security by bond required under section 29 of chapter 149; provided that for the purposes of this section the term "security by bond" shall mean the bond of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority; provided further, that if there is more than 1 surety company, the surety companies shall be jointly and severally liable.

(d) The provisions of this section shall not apply (1) to the extent that they prevent the approval of such specifications by any contributing federal agency, (2) to materials purchased under specifications of the state department of highways at prices established by the said department pursuant to advertisement and bidding in connection with work to be performed under the provisions of chapter eighty-one or chapter ninety, (3) to any transaction between the commonwealth and any of its political subdivisions or between the commonwealth and any public service corporation, and (4) to any contract of not more than \$50,000 awarded by a governmental body, as defined by section two of chapter thirty B, in accordance with the provisions of section five of said chapter thirty B; and (5) to any contract solely for the purchase of material awarded by a

governmental body, as defined by section 2 of chapter 30B, in accordance with section 5 of said chapter 30B, or procured through the operational services division pursuant to sections 22 and 52 of chapter 7.

(e) The word "material" as used in this section shall mean and include any article, assembly, system, or any component part thereof.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39M1/2 PROJECT OVERSIGHT; OWNER'S REPRESENTATIVE; QUALIFICATIONS; PROCUREMENT; POWERS AND DUTIES

Section 39M1/2. (a) The following words shall have the following meanings unless the context clearly requires otherwise:

"Certified estimate of cost", a good-faith estimate based on the best available information and made by the most senior official in the agency responsible for the contract, accounting for all expenses which could be reasonably foreseen including, but not limited to, those involving design, construction, management, acquisition and disposition of rights of way and contingency costs.

"Cost-plus basis", a form of compensation in which a premium is added to the actual cost of service to determine a total amount to be paid.

"Major contract", a contract by which the commonwealth or any of its public agencies or authorities is to procure the construction, repair or rehabilitation of a publicly-owned highway, railway, bridge, tunnel, building platform or any component thereof and for which the certified estimate of cost exceeds \$50,000,000, or a contract or lease by which the

commonwealth or any of its public agencies or authorities is to procure, directly or indirectly, the construction, repair or rehabilitation of a privately-owned, publicly-used highway, railway, bridge, tunnel, building platform or any component thereof.

"Oversight cost estimate", an estimate developed by the commonwealth or any agency thereof, prior to the engagement of an owner's representative, of the anticipated total cost of the services of that representative. "Owner's representative", an individual registered by the commonwealth as a professional engineer, who has not less than 5 years of experience in the construction and supervision of construction of the type which is the subject of the pertinent major contract in nature, scope and complexity.

"Owner's representative" shall mean an individual registered by the commonwealth as a professional engineer, who has not less than 5 years of experience in the construction and supervision of construction of the type which is the subject of the pertinent major contract in nature, scope and complexity.

(b) The commonwealth or any agency or authority thereof shall engage and maintain an owner's representative to provide professional project oversight with regard to any major contract. Such representative shall be an individual employed by a corporation, partnership, sole proprietorship, joint stock company, joint venture or other entity engaged in the practice of providing project management services for public construction of the nature, scope and complexity which is the subject of the contract. A public agency may designate an existing employee as owner's representative subject to the conditions set forth in subsection (c).

- (c) An existing employee of a public agency may act as its owner's representative if the following conditions are met:
- (1) the employee meets or exceeds the qualifications set forth in subsection (b);
- (2) the employee has suitable experience in the construction and supervision of projects of the nature, scope and complexity of the relevant major contract; and
- (3) The employee and his employer have entered into a memorandum of understanding, contract or other comparable document establishing the independence of the employee as being equal to that of an owner's representative contracted from the private sector;
- (d) An owner's representative shall certify in writing, under the pains and penalties of perjury, that his sole responsibility shall be to the commonwealth and the agency which has retained his services. The independent owner's representative shall be wholly independent of the designer, general contractor or any subcontractor involved in the public works project and shall attest to the same in a sworn statement.
- (e) An owner's representative shall be subject to chapter 268A.
- (f) An owner's representative shall be selected and retained prior to the award of a major contract by any public agency; provided, however, that such agency shall select and procure the services of the owner's representative through a process which is documented in writing, incorporates the evaluation of qualifications and experience and is competitive in nature. The process shall utilize a system of written applications which shall be retained for inspection for a period of not less

- than 6 months following the selection of an owner's representative. The process shall also be promulgated in writing by the inspector general prior to the commencement of any hiring process pursuant to this section.
- (g) Any major contract executed prior to the selection of an owner's representative shall be null and void as against public policy. Prior to the award of any major contract, the public agency seeking to award the contract shall certify in writing to the inspector general that an owner's representative has been selected.
- (h) Any individual, organization or agency eligible to receive information from an owner's representative shall do so in a form and manner approved and promulgated by the inspector general. Upon receipt of such request, the owner's representative shall respond within 60 days. Such response shall contain the requested information, indicate why it is not available to the party requesting it or indicate a date certain when the information will be available and the date on which it will be provided. A party denied information pursuant to this section may appeal such denial to the inspector general.
- (i) The owner's representative shall conduct a peer review of engineering elements on its projects.
- (j) The owner's representative shall be the primary manager of cost recovery and value engineering on the project.
- (k) The owner's representative shall enjoy unfettered access to project work sites, documents, and correspondence.
- (l) The owner's representative shall file reports on the project, under oath, not later than December 31 of each year in which their contract is in effect, to the inspector general, to the secretary of transportation and

public works, the house and senate chairs of the joint committee on transportation and to the state auditor.

- (m) The inspector general shall promulgate regulations governing the operations and actions of owner's representatives which shall include, but not be limited to, sanctions for misfeasance, malfeasance and the failure to adhere to any contracts or agreements executed pursuant to this section.
- (n) In no instance shall an awarding agency execute a contract that pays the independent owner's representative on a cost-plus basis. Awarding agencies shall establish an oversight cost estimate for the work of an owner's representative prior to the hiring of the owner's representative.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39N CONSTRUCTION CONTRACTS; EQUITABLE ADJUSTMENT IN

CONTRACT PRICE FOR DIFFERING SUBSURFACE OR LATENT

PHYSICAL CONDITIONS

Section 39N. Every contract subject to section forty-four A of chapter one hundred and forty-nine or subject to section thirty-nine M of chapter thirty shall contain the following paragraph in its entirety and an awarding authority may adopt reasonable rules or regulations in conformity with that paragraph concerning the filing, investigation and settlement of such claims:

If, during the progress of the work, the contractor or the awarding authority discovers that the actual subsurface or latent physical conditions encountered at the site differ substantially or materially from those shown on the plans or indicated in the contract documents either the contractor or the contracting authority may request an equitable adjustment in the contract price of the contract applying to work affected by the differing site conditions. A request for such an adjustment shall be in writing and shall be delivered by the party making such claim to the other party as soon as possible after such conditions are discovered. Upon receipt of

such a claim from a contractor, or upon its own initiative, the contracting authority shall make an investigation of such physical conditions, and, if they differ substantially or materially from those shown on the plans or indicated in the contract documents or from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the plans and contract documents and are of such a nature as to cause an increase or decrease in the cost of performance of the work or a change in the construction methods required for the performance of the work which results in an increase or decrease in the cost of the work, the contracting authority shall make an equitable adjustment in the contract price and the contract shall be modified in writing accordingly.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 390 CONTRACTS FOR CONSTRUCTION AND MATERIALS;

SUSPENSION, DELAY OR INTERRUPTION DUE TO ORDER OF AWARDING AUTHORITY; ADJUSTMENT IN CONTRACT PRICE;

WRITTEN CLAIM

Section 39O. Every contract subject to the provisions of section thirtynine M of this chapter or subject to section forty-four A of chapter one
hundred forty-nine shall contain the following provisions (a) and (b) in
their entirety and, in the event a suspension, delay, interruption or failure
to act of the awarding authority increases the cost of performance to any
subcontractor, that subcontractor shall have the same rights against the
general contractor for payment for an increase in the cost of his
performance as provisions (a) and (b) give the general contractor against
the awarding authority, but nothing in provisions (a) and (b) shall in any
way change, modify or alter any other rights which the general contractor
or the subcontractor may have against each other.

(a) The awarding authority may order the general contractor in writing to suspend, delay, or interrupt all or any part of the work for such period of time as it may determine to be appropriate for the convenience of the

awarding authority; provided however, that if there is a suspension, delay or interruption for fifteen days or more or due to a failure of the awarding authority to act within the time specified in this contract, the awarding authority shall make an adjustment in the contract price for any increase in the cost of performance of this contract but shall not include any profit to the general contractor on such increase; and provided further, that the awarding authority shall not make any adjustment in the contract price under this provision for any suspension, delay, interruption or failure to act to the extent that such is due to any cause for which this contract provides for an equitable adjustment of the contract price under any other contract provisions.

(b) The general contractor must submit the amount of a claim under provision (a) to the awarding authority in writing as soon as practicable after the end of the suspension, delay, interruption or failure to act and, in any event, not later than the date of final payment under this contract and, except for costs due to a suspension order, the awarding authority shall not approve any costs in the claim incurred more than twenty days before the general contractor notified the awarding authority in writing of the act or failure to act involved in the claim.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39P CONTRACTS FOR CONSTRUCTION AND MATERIALS;

AWARDING AUTHORITY'S DECISIONS ON INTERPRETATION

OF SPECIFICATIONS, ETC.; TIME LIMIT; NOTICE

Section 39P. Every contract subject to section thirty-nine M of this chapter or section forty-four A of chapter one hundred forty-nine which requires the awarding authority, any official, its architect or engineer to make a decision on interpretation of the specifications, approval of equipment, material or any other approval, or progress of the work, shall require that the decision be made promptly and, in any event, no later than thirty days after the written submission for decision; but if such decision requires extended investigation and study, the awarding authority, the official, architect or engineer shall, within thirty days after the receipt of the submission, give the party making the submission written notice of the reasons why the decision cannot be made within the thirty day period and the date by which the decision will be made.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39Q CONTRACTS FOR CAPITAL FACILITY CONSTRUCTION;

CONTENTS; ANNUAL CLAIMS REPORT

Section 39Q. (1) Every contract awarded by any state agency as defined by section thirty-nine A of chapter seven for the construction, reconstruction, alteration, remodeling, repair or demolition of any capital facility as defined by the aforesaid section thirty-nine A shall contain the following subparagraphs (a) through (d) in their entirety:

(a) Disputes regarding changes in and interpretations of the terms or scope of the contract and denials of or failures to act upon claims for payment for extra work or materials shall be resolved according to the following procedures, which shall constitute the exclusive method for resolving such disputes. Written notice of the matter in dispute shall be submitted promptly by the claimant to the chief executive official of the state agency which awarded the contract or his designee. No person or business entity having a contract with a state agency shall delay, suspend, or curtail performance under that contract as a result of any dispute

- subject to this section. Any disputed order, decision or action by the agency or its authorized representative shall be fully performed or complied with pending resolution of the dispute.
- (b) Within thirty days of submission of the dispute to the chief executive official of the state agency or his designee, he shall issue a written decision stating the reasons therefor, and shall notify the parties of their right of appeal under this section. If the official or his designee is unable to issue a decision within thirty days, he shall notify the parties to the dispute in writing of the reasons why a decision cannot be issued within thirty days and of the date by which the decision shall issue. Failure to issue a decision within the thirty-day period or within the additional time period specified in such written notice shall be deemed to constitute a denial of the claim and shall authorize resort to the appeal procedure described below. The decision of the chief executive official or his designee shall be final and conclusive unless an appeal is taken as provided below.
- (c) Within twenty-one calendar days of the receipt of a written decision or of the failure to issue a decision as stated in the preceding subparagraph, any aggrieved party may file a notice of claim for an adjudicatory hearing with the division of hearing officers or the aggrieved party may file an action directly in a court of competent jurisdiction and shall serve copies thereof upon all other parties in the form and manner prescribed by the rules governing the conduct of adjudicatory proceedings of the division of hearing officers. In the event an aggrieved party exercises his option to file an action directly in court as provided in the previous sentence, the twenty-one day period shall not apply to such filing and the period of filing such action shall be the same period otherwise applicable for filing a civil action in superior court. The appeal

shall be referred to a hearing officer experienced in construction law and shall be prosecuted in accordance with the formal rules of procedure for the conduct of adjudicatory hearings of the division of hearing officers, except as provided below. The hearing officer shall issue a final decision as expeditiously as possible, but in no event more than one hundred and twenty calendar days after conclusion of the adjudicatory hearing, unless the decision is delayed by a request for extension of time for filing post-hearing briefs or other submissions assented to by all parties. Whenever, because an extension of time has been granted, the hearing officer is unable to issue a decision within one hundred and twenty days, he shall notify all parties of the reasons for the delay and the date when the decision will issue. Failure to issue a decision within the one hundred and twenty-day period or within the additional period specified in such written notice shall give the petitioner the right to pursue any legal remedies available to him without further delay.

- (d) When the amount in dispute is less than ten thousand dollars, a contractor who is party to the dispute may elect to submit the appeal to a hearing officer experienced in construction law for expedited hearing in accordance with the informal rules of practice and procedure of the division of hearing officers. An expedited hearing under this subparagraph shall be available at the sole option of the contractor. The hearing officer shall issue a decision no later than sixty days following the conclusion of any hearing conducted pursuant to this subparagraph. The hearing officer's decision shall be final and conclusive, and shall not be set aside except in cases of fraud.
- (2) The commissioner of administration shall require the division of hearings officers to prepare annually a report concerning the construction contract claims submitted to the division during the preceding twelve

months, in such form as the commissioner shall prescribe. The report shall contain, at a minimum, the following information: the number of claims submitted; the names of all parties to each such claim; a brief description of the claim; the date of submission and of disposition of the claim; its disposition, whether by settlement, withdrawal, default or written decision; and the number of claims currently pending. The original of the report shall be submitted to the commissioner of administration by January fifteenth, and a copy shall be filed with the state librarian and shall be a public document.

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39R KEEPING AND MAINTAINING OF BOOKS, RECORDS AND

ACCOUNTS: STATEMENT OF MANAGEMENT ON INTERNAL

ACCOUNTING CONTROL; FINANCIAL STATEMENTS;

ENFORCEMENT

Section 39R. (a) The words defined herein shall have the meaning stated below whenever they appear in this section:

- (1) "Contractor" means any person, corporation, partnership, joint venture, sole proprietorship, or other entity awarded a contract pursuant to sections thirty-eight A1/2 to thirty-eight O, inclusive, of chapter seven and any contract awarded or executed pursuant to section eleven C of chapter twenty-five A, section thirty-nine M of chapter thirty, or sections forty-four A to forty-four H, inclusive, of chapter one hundred and forty-nine, which is for an amount or estimated amount greater than one hundred thousand dollars.
- (2) "Contract" means any contract awarded or executed pursuant to sections thirty-eight A1/2 to thirty-eight O, inclusive, of chapter seven and any contract awarded or executed pursuant to section eleven C of chapter twenty-five A, section thirty-nine M of chapter thirty, or sections

forty-four A through forty-four H, inclusive, of chapter one hundred and forty-nine, which is for amount or estimated amount greater than one hundred thousand dollars.

- (3) "Records" means books of original entry, accounts, checks, bank statements and all other banking documents, correspondence, memoranda, invoices, computer printouts, tapes, discs, papers and other documents or transcribed information of any type, whether expressed in ordinary or machine language.
- (4) "Independent Certified Public Accountant" means a person duly registered in good standing and entitled to practice as a certified public accountant under the laws of the place of his residence or principal office and who is in fact independent. In determining whether an accountant is independent with respect to a particular person, appropriate consideration should be given to all relationships between the accountant and that person or any affiliate thereof. Determination of an accountant's independence shall not be confined to the relationships existing in connection with the filing of reports with the awarding authority.
- (5) "Audit", when used in regard to financial statements, means an examination of records by an independent certified public accountant in accordance with generally accepted accounting principles and auditing standards for the purpose of expressing a *certified* opinion thereon, or, in the alternative, a qualified opinion or a declination to express an opinion for stated reasons.
- (6) "Accountant's Report", when used in regard to financial statements, means a document in which an independent certified public accountant indicates the scope of the audit which he has made and sets forth his opinion regarding the financial statements taken as a whole with a listing

of noted exceptions and qualifications, or an assertion to the effect that an overall opinion cannot be expressed. When an overall opinion cannot be expressed the reason therefor shall be stated. An accountant's report shall include as a part thereof a signed statement by the responsible corporate officer attesting that management has fully disclosed all material facts to the independent certified public accountant, and that the audited financial statement is a true and complete statement of the financial condition of the contractor.

- (7) "Management", when used herein, means the chief executive officers, partners, principals or other person or persons primarily responsible for the financial and operational policies and practices of the contractor.
- (8) Accounting terms, unless otherwise defined herein, shall have a meaning in accordance with generally accepted accounting principles and auditing standards.
- (b) Subsection (a)(2) hereof notwithstanding, every agreement or contract awarded or executed pursuant to sections thirty-eight A1/2 to thirty-eight O, inclusive, of chapter seven, or eleven C of chapter twenty-five A, and pursuant to section thirty-nine M of chapter thirty or to section forty-four A through H, inclusive, of chapter one hundred and forty-nine, shall provide that:
- (1) The contractor shall make, and keep for at least six years after final payment, books, records, and accounts which in reasonable detail accurately and fairly reflect the transactions and dispositions of the contractor, and
- (2) until the expiration of six years after final payment, the office of inspector general, and the commissioner of capital asset management and maintenance shall have the right to examine any books, documents,

papers or records of the contractor or of his subcontractors that directly pertain to, and involve transactions relating to, the contractor or his subcontractors, and

- (3) if the agreement is a contract as defined herein, the contractor shall describe any change in the method of maintaining records or recording transactions which materially affect any statements filed with the awarding authority, including in his description the date of the change and reasons therefor, and shall accompany said description with a letter from the contractor's independent certified public accountant approving or otherwise commenting on the changes, and
- (4) if the agreement is a contract as defined herein, the contractor has filed a statement of management on internal accounting controls as set forth in paragraph (c) below prior to the execution of the contract, and
- (5) if the agreement is a contract as defined herein, the contractor has filed prior to the execution of the contracts and will continue to file annually, an audited financial statement for the most recent completed fiscal year as set forth in paragraph (d) below.
- (c) Every contractor awarded a contract shall file with the awarding authority a statement of management as to whether the system of internal accounting controls of the contractor and its subsidiaries reasonably assures that:
- (1) transactions are executed in accordance with management's general and specific authorization;
- (2) transactions are recorded as necessary
- i. to permit preparation of financial statements in conformity with generally accepted accounting principles, and

- ii. to maintain accountability for assets;
- (3) access to assets is permitted only in accordance with management's general or specific authorization; and
- (4) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action was taken with respect to any difference.

Every contractor awarded a contract shall also file with the awarding authority a statement prepared and signed by an independent certified public accountant, stating that he has examined the statement of management on internal accounting controls, and expressing an opinion as to

- (1) whether the representations of management in response to this paragraph and paragraph (b) above are consistent with the result of management's evaluation of the system of internal accounting controls; and
- (2) whether such representations of management are, in addition, reasonable with respect to transactions and assets in amounts which would be material when measured in relation to the applicant's financial statements.
- (d) Every contractor awarded a contract by the commonwealth or by any political subdivision thereof shall annually file with the commissioner of capital asset management and maintenance during the term of the contract a financial statement prepared by an independent certified public accountant on the basis of an audit by such accountant. The final

- statement filed shall include the date of final payment. All statements shall be accompanied by an accountant's report. Such statements shall be made available to the awarding authority upon request.
- (e) The office of inspector general, the commissioner of capital asset management and maintenance and any other awarding authority shall enforce the provisions of this section. The commissioner of capital asset management and maintenance may after providing an opportunity for the inspector general and other interested parties to comment, promulgate pursuant to the provisions of chapter thirty A such rules, regulations and guidelines as are necessary to effectuate the purposes of this section. Such rules, regulations and guidelines may be applicable to all awarding authorities. A contractor's failure to satisfy any of the requirements of this section may be grounds for debarment pursuant to section forty-four C of chapter one hundred and forty-nine.
- (f) Records and statements required to be made, kept or filed under the provisions of this section shall not be public records as defined in section seven of chapter four and shall not be open to public inspection; provided, however, that such records and statements shall be made available pursuant to the provisions of clause (2) of paragraph (b).

Title III LAWS RELATING TO STATE OFFICERS

Chapter 30 GENERAL PROVISIONS RELATIVE TO STATE DEPARTMENTS,

COMMISSIONS, OFFICERS AND EMPLOYEES

Section 39S CONTRACTS FOR CONSTRUCTION; REQUIREMENTS

Section 39S. (a) As used in this section the word "person" shall mean any natural person, joint venture, partnership corporation or other business or legal entity. 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, or political subdivision thereof, or by any county, city, town, district, or housing authority, and estimated by the awarding authority to cost more than \$10,000, and any person submitting a bid for, or signing a contract to work on, the construction, reconstruction, installation, demolition, maintenance or repair of any building by a public agency, estimated to cost more than \$10,000, shall certify on the bid, or contract, under penalties of perjury, as follows:

(1) that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (2) that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the

United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and (3) that all employees to be employed in the work subject to this bid 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.

- (b) Any employee found on a worksite subject to this section without documentation of successful completion of 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 shall be subject to immediate removal.
- (c) The attorney general, or his designee, shall have the power to enforce this section including the power to institute and prosecute proceedings in the superior court to restrain the award of contracts and the performance of contracts in all cases where, after investigation of the facts, he has made a finding that the award or performance has resulted in violation, directly or indirectly, of subsection (b), and he shall not be required to pay to the clerk of the court an entry fee in connection with the institution of the proceeding.

Title XIV PUBLIC WAYS AND WORKS

Chapter 82 THE LAYING OUT, ALTERATION, RELOCATION AND

DISCONTINUANCE OF PUBLIC WAYS, AND SPECIFIC REPAIRS

THEREON

Section 40 DEFINITIONS APPLICABLE TO SECS. 40A TO 40E

Section 40. The following words, as used in this section and sections 40A to 40E, inclusive, shall have the following meanings:—

"Company", natural gas pipeline company, petroleum or petroleum products pipeline company, public utility company, cable television company, and municipal utility company or department that supply gas, electricity, telephone, communication or cable television services or private water companies within the city or town where such excavation is to be made.

"Description of excavation location", such description shall include the name of the city or town, street, way, or route number where appropriate, the name of the streets at the nearest intersection to the excavation, the number of the buildings closest to the excavation or any other description, including landmarks, utility pole numbers or other information which will accurately define the location of the excavation.

"Emergency", a condition in which the safety of the public is in imminent danger, such as a threat to life or health or where immediate correction is required to maintain or restore essential public utility service.

"Excavation", an operation for the purpose of movement or removal of earth, rock or the materials in the ground including, but not limited to, digging, blasting, augering, backfilling, test boring, drilling, pile driving, grading, plowing in, hammering, pulling in, jacking in, trenching, tunneling and demolition of structures.

"Excavator", any entity including, but not limited to, a person, partnership, joint venture, trust, corporation, association, public utility, company or state or local government body which performs excavation operations.

"Premark", to delineate the general scope of the excavation or boring on the paved surface of the ground using white paint, or stakes or other suitable white markings on nonpaved surfaces. No premarking shall be acceptable if such marks can reasonably interfere with traffic or pedestrian control or are misleading to the general public. Premarking shall not be required of any continuous excavation that is over 500 feet in length.

"Safety zone", a zone designated on the surface by the use of standard color-coded markings which contains the width of the facilities plus not more than 18 inches on each side.

"Standard color-coded markings", red - electric power lines, cables, conduit or light cables; yellow - gas, oil, street petroleum, or other gaseous materials; orange - communications cables or conduit, alarm or signal lines; blue - water, irrigation and slurry lines; green - sewer and drain lines; white - premark of proposed excavation.

"System", the underground plant damage prevention system as defined in section 76D of chapter 164.

Title XIV PUBLIC WAYS AND WORKS

Chapter 82 THE LAYING OUT, ALTERATION, RELOCATION AND

DISCONTINUANCE OF PUBLIC WAYS, AND SPECIFIC REPAIRS

THEREON

Section 40A EXCAVATIONS; NOTICE

Section 40A. No excavator installing a new facility or an addition to an existing facility or the relay or repair of an existing facility shall, except in an emergency, make an excavation, in any public or private way, any company right-of-way or easement or any public or privately owned land or way, unless at least 72 hours, exclusive of Saturdays, Sundays and legal holidays but not more than 30 days before the proposed excavation is to be made, such excavator has premarked not more than 500 feet of the proposed excavation and given an initial notice to the system. Such initial notice shall set forth a description of the excavation location in the manner as herein defined. In addition, such initial notice shall indicate whether any such excavation will involve blasting and, if so, the date and the location at which such blasting is to occur.

The notice requirements shall be waived in an emergency as defined herein; provided, however, that before such excavation begins or during a life-threatening emergency, notification shall be given to the system and the initial point of boring or excavation shall be premarked. The excavator shall ensure that the underground facilities of the utilities in the area of such excavation shall not be damaged or jeopardized.

In no event shall any excavation by blasting take place unless notice thereof, either in the initial notice or a subsequent notice accurately specifying the date and location of such blasting shall have been given and received at least 72 hours in advance, except in the case of an unanticipated obstruction requiring blasting when such notice shall be not less than four hours prior to such blasting. If any such notice cannot be given as aforesaid because of an emergency requiring blasting, it shall be given as soon as may be practicable but before any explosives are discharged.

Title XIV PUBLIC WAYS AND WORKS

Chapter 82 THE LAYING OUT, ALTERATION, RELOCATION AND

DISCONTINUANCE OF PUBLIC WAYS, AND SPECIFIC REPAIRS

THEREON

Section 40B DESIGNATION OF LOCATION OF UNDERGROUND FACILITIES

Section 40B. Within 72 hours, exclusive of Saturdays, Sundays and legal holidays, from the time the initial notice is received by the system or at such time as the company and the excavator agree, such company shall respond to the initial notice or subsequent notice by designating the location of the underground facilities within 15 feet in any direction of the premarking so that the existing facilities are to be found within a safety zone. Such safety zone shall be so designated by the use of standard color-coded markings. The providing of such designation by the company shall constitute prima facie evidence of an exercise of reasonable precaution by the company as required by this section; provided, however, that in the event that the excavator has given notice as aforesaid at a location at which because of the length of excavation the company cannot reasonably designate the entire location of its facilities within such 72 hour period, then such excavator shall identify for the company that portion of the excavation which is to be first made and the company shall designate the location of its facilities in such portion

within 72 hours and shall designate the location of its facilities in the remaining portion of the location within a reasonable time thereafter. When an emergency notification has been given to the system, the company shall make every attempt to designate its facilities as promptly as possible.

Title XIV PUBLIC WAYS AND WORKS

Chapter 82 THE LAYING OUT, ALTERATION, RELOCATION AND

DISCONTINUANCE OF PUBLIC WAYS, AND SPECIFIC REPAIRS

THEREON

Section 40C EXCAVATOR'S RESPONSIBILITY TO MAINTAIN DESIGNATION

MARKINGS; DAMAGE CAUSED BY EXCAVATOR

Section 40C. After a company has designated the location of its facilities at the location in accordance with section 40B, the excavator shall be responsible for maintaining the designation markings at such locations, unless such excavator requests remarking at the location due to the obliteration, destruction or other removal of such markings. The company shall then remark such location within 24 hours following receipt of such request.

When excavating in close proximity to the underground facilities of any company when such facilities are to be exposed, non-mechanical means shall be employed, as necessary, to avoid damage in locating such facility and any further excavation shall be performed employing reasonable precautions to avoid damage to any underground facilities including, but not limited to, any substantial weakening of structural or lateral support

of such facilities, penetration or destruction of any pipe, main, wire or conduit or the protective coating thereof, or damage to any pipe, main, wire or conduit.

If any damage to such pipe, main, wire or conduit or its protective coating occurs, the company shall be notified immediately by the excavator responsible for causing such damage.

The making of an excavation without providing the notice required by section 40A with respect to any proposed excavation which results in any damage to a pipe, main, wire or conduit, or its protective coating, shall be prima facie evidence in any legal or administrative proceeding that such damage was caused by the negligence of such person.

Title XIV PUBLIC WAYS AND WORKS

Chapter 82 THE LAYING OUT, ALTERATION, RELOCATION AND

DISCONTINUANCE OF PUBLIC WAYS, AND SPECIFIC REPAIRS

THEREON

Section 40D LOCAL LAWS REQUIRING EXCAVATION PERMITS; PUBLIC

WAYS

Section 40D. Nothing in this section shall affect or impair local ordinances or by-laws requiring a permit to be obtained before excavation in a public way or on private property; but notwithstanding any general or special law, ordinance or by-law to the contrary, to the extent that any permit issued under the provisions of the state building code or state fire code requires excavation by an excavator on a public way or on private property, the permit shall not be valid unless the excavator notifies the system as required pursuant to sections 40 and 40A, before the commencement of the excavation, and has complied with the permitting requirements of chapter 82A.

Title XIV PUBLIC WAYS AND WORKS

Chapter 82 THE LAYING OUT, ALTERATION, RELOCATION AND

DISCONTINUANCE OF PUBLIC WAYS, AND SPECIFIC REPAIRS

THEREON

Section 40E VIOLATIONS OF SECS. 40A TO 40E; PUNISHMENT

Section 40E. Any person or company found by the department of telecommunications and energy, after a hearing, to have violated any provision of sections 40A to 40E, inclusive, shall be fined \$1,000 for the first offense and not less than \$5,000 nor more than \$10,000 for any subsequent offense within 12 consecutive months as set forth by the rules of said department; provided, however, that nothing herein shall be construed to require forfeiture of any penal sum by a state or local government body for violation of section 40A or 40C; and provided, further, that nothing herein shall be construed to require the forfeiture of any penal sum by a residential property owner for the failure to premark for an excavation on such person's residential property.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 26 PUBLIC WORKS; PREFERENCE TO VETERANS AND CITIZENS;

WAGES

Section 26. In the employment of mechanics and apprentices, teamsters, chauffeurs and laborers in the construction of public works by the commonwealth, or by a county, town, authority or district, or by persons contracting or subcontracting for such works, preference shall first be given to citizens of the commonwealth who have been residents of the commonwealth for at least six months at the commencement of their employment who are veterans as defined in clause Forty-third of section 7 of chapter 4 and who are qualified to perform the work to which the employment relates and, within such preference, preference shall be given to service-disabled veterans; and secondly, to citizens of the commonwealth generally who have been residents of the commonwealth for at least six months at the commencement of their employment, and if they cannot be obtained in sufficient numbers, then to citizens of the United States, and every contract for such work shall contain a provision to this effect. Each county, town or district in the construction of public works, or persons contracting or sub-contracting for such works, shall give preference to veterans and citizens who are residents of such county,

town, authority or district and, within such preference, preference shall be given to service-disabled veterans. The rate per hour of the wages paid to said mechanics and apprentices, teamsters, chauffeurs and laborers in the construction of public works shall not be less than the rate or rates of wages to be determined by the commissioner as hereinafter provided; provided, that the wages paid to laborers employed on said works shall not be less than those paid to laborers in the municipal service of the town or towns where said works are being constructed; provided, further, that where the same public work is to be constructed in two or more towns, the wages paid to laborers shall not be less than those paid to laborers in the municipal service of the town paying the highest rate; provided, further, that if, in any of the towns where the works are to be constructed, a wage rate or wage rates have been established in certain trades and occupations by collective agreements or understandings in the private construction industry between organized labor and employers, the rate or rates to be paid on said works shall not be less than the rates so established; provided further, that in towns where no such rate or rates have been so established, the wages paid to mechanics, teamsters, chauffeurs and laborers on public works, shall not be less than the wages paid to the employees in the same trades and occupations by private employers engaged in the construction industry. This section shall also apply to regular employees of the commonwealth or of a county, town, authority or district, when such employees are employed in the construction, addition to or alteration of public buildings for which special appropriations of more than one thousand dollars are provided. Payments by employers to health and welfare plans, pension plans and supplementary unemployment benefit plans under collective bargaining

agreements or understandings between organized labor and employers shall be included for the purpose of establishing minimum wage rates as herein provided.

Permanent and temporary laborers employed by the state department of highways and by the metropolitan district commission shall receive such salary or compensation as may be fixed under and in accordance with sections forty-five to fifty inclusive of chapter thirty.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 27A APPEALS FROM CLASSIFICATIONS AND WAGE

DETERMINATIONS

Section 27A. Within five days from the date of the first advertisement or call for bids, two or more employers of labor, or two or more members of a labor organization, or the awarding officer or official, or five or more residents of the town or towns where the public works are to be constructed, may appeal to the commissioner or his designee from a wage determination, or a classification of employment as made by the commissioner, by serving on the commissioner a written notice to that effect. Thereupon the commissioner or his designee shall immediately hold a public hearing on the action appealed from. The commissioner or his designee shall render his decision not later than three days after the closing of the hearing. The decision of the commissioner or his designee shall be final and notice thereof shall be given forthwith to the awarding official or public body.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 27B RECORDS OF EMPLOYEES; PAYROLL RECORDS;

STATEMENTS OF COMPLIANCE

Section 27B. Every contractor, subcontractor or public body engaged in said public works project by an agency, executive office, department, board, commission, bureau, division or authority of the commonwealth or county, or municipality or any subdivision thereof to which sections twenty-seven and twenty-seven A apply shall keep a true and accurate record of all mechanics and apprentices, teamsters, chauffeurs and laborers employed thereon, showing the name, address and occupational classification of each such employee on said works, and the hours worked by, and the wages paid to, each such employee, and shall submit weekly to the awarding authority by mail, first class postage prepaid, or by electronic mail, certified payroll records that shall consist of a complete copy of those records accompanied by a statement signed by the employer that indicates (1) the records are correct; and (2) the rate of wages paid to each performing the work of mechanic, apprentice, teamsters, chauffeurs, and laborers, and shall promptly furnish to the attorney general or his representative, upon his request, a copy of said record, signed by the employer or his authorized agent under the

penalties of perjury. For every week in which an apprentice is employed by a contractor, subcontractor or public body subject to this section, a photocopy of the apprentice's apprentice identification card, issued pursuant to section 11W of chapter 23, shall be attached to the records submitted under this section. Such records shall be open to inspection by any authorized representative of the department at any reasonable time, and as often as may be necessary. Every contractor and subcontractor required to keep such a record shall submit a copy of said record to the awarding authority directly on a weekly basis.

Each such contractor, subcontractor or public body shall preserve its payroll records for a period of three years from the date of completion of the contract.

Each such contractor, subcontractor or public body shall furnish to the awarding authority directly within fifteen days after completion of its portion of the work a statement, executed by the contractor, subcontractor or public body or by any authorized officer or employee of the contractor, subcontractor or public body who supervises the payment of wages, in the following form:

```
statement of compliance
,
(insert year)
I,,
(Name of signatory party)(Title)
do hereby state:
That I pay or supervise the payment of the persons employed by on the
(Contractor, subcontractor or public body)(Building or project)
```

and that all mechanics and apprentices, teamsters, chauffeurs and laborers employed on said project have been paid in accordance with wages determined under the provisions of sections twenty-six and twenty-seven of chapter one hundred and forty-nine of the General Laws. Signature

Title

The above-mentioned copies of payroll records and statements of compliance shall be available for inspection by any interested party filing a written request to the awarding authority for such inspection and copying.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 27C PENALTIES FOR VIOLATIONS OF CERTAIN SECTIONS BY

EMPLOYERS, CONTRACTORS, SUBCONTRACTORS OR THEIR

EMPLOYEES

Section 27C. (a)(1) Any employer, contractor or subcontractor, or any officer, agent, superintendent, foreman, or employee thereof, or staffing agency or work site employer who willfully violates any provision of section 26, 27, 27A, 27B, 27F, 27G, 27H, 148, 148A, 148B or 159C or section 1A, 1B or 19 of chapter 151, shall be punished by a fine of not more than \$25,000 or by imprisonment for not more than one year for a first offense, or by both such fine and imprisonment and for a subsequent willful offense a fine of not more than \$50,000, or by imprisonment for not more than two years, or by both such fine and such imprisonment.

(2) Any employer, contractor or subcontractor, or any officer, agent, superintendent, foreman or employee thereof, or staffing agency or work site employer who without a willful intent to do so, violates any provision of section 26, 27, 27A, 27B, 27F, 27G, 27H, 148, 148A, 148B or 159C or section 1A, 1B or 19 of chapter 151, shall be punished by a fine of not more than \$10,000, or by imprisonment for not more than six months for

a first offense, and for a subsequent offense by a fine of not more than \$25,000 or by imprisonment for not more than one year, or by both such fine and such imprisonment. A complaint or indictment hereunder or under the provisions of the first paragraph may be sought either in the county where the work was performed or in the county where the employer, contractor, or subcontractor has a principal place of business. In the case of an employer, contractor, or subcontractor who has his principal place of business outside the commonwealth, a complaint or indictment may be sought either in the county where the work was performed or in Suffolk county.

(3) Any contractor or subcontractor convicted of willfully violating any provision of section 26, 27, 27A, 27B, 27F, 27G, 27H or 148B shall, in addition to any criminal penalty imposed, be prohibited from contracting, directly or indirectly, with the commonwealth or any of its agencies or political subdivisions for the construction of any public building or other public works, or from performing any work on the same as a contractor or subcontractor, for a period of five years from the date of such conviction. Any contractor or subcontractor convicted of violating any provision of section 26, 27, 27A, 27B, 27F, 27G, 27H or 148B shall, in addition to any criminal penalty imposed, be prohibited from contracting, directly or indirectly, with the commonwealth or any of its agencies, authorities or political subdivisions for the construction of any public building or other public works or from performing any work on the same as a contractor or subcontractor, for a period not to exceed six months from the date of such conviction for a first offense and up to three years from the date of conviction for subsequent offense. After final conviction and disposition of a violation pursuant to this paragraph in any court, the clerk of said court shall send a notice of such conviction to the attorney

general, who shall publish written notice to all departments and agencies of the commonwealth which contract for public construction and to the appropriate authorities of counties, authorities, cities and towns that such person is prohibited from contracting, directly or indirectly, with the commonwealth or any of its authorities or political subdivisions for the period of time required under this paragraph. The attorney general may take such action as may be necessary to enforce the provisions of this paragraph, and the superior court shall have jurisdiction to enjoin or invalidate any contract award made in violation of this paragraph.

- (b)(1) As an alternative to initiating criminal proceedings pursuant to subsection (a), the attorney general may issue a written warning or a civil citation. For each violation, a separate citation may be issued requiring any or all of the following: that the infraction be rectified, that restitution be made to the aggrieved party, or that a civil penalty of not more than \$25,000 for each violation be paid to the commonwealth, within 21 days of the date of issuance of such citation. For the purposes of this paragraph, each failure to pay an employee the appropriate rate or prevailing rate of pay for any pay period may be deemed a separate violation, and the pay period shall be a minimum of 40 hours unless such employee has worked fewer than 40 hours during that week.
- (2) Notwithstanding the foregoing, the maximum civil penalty that may be imposed upon any employer, contractor or subcontractor, who has not previously been either criminally convicted of a violation of the provisions of this chapter or chapter 151 or issued a citation hereunder, shall be no more than \$15,000, except that in instances in which the attorney general determines that the employer, contractor or subcontractor lacked specific intent to violate the provisions of this chapter or said chapter 151, the maximum civil penalty for such an

employer, contractor or subcontractor who has not previously been either criminally convicted of a violation of the provisions of this chapter or said chapter 151 or issued a citation hereunder shall be not more than \$7,500. In determining the amount of any civil penalty to be assessed hereunder, said attorney general shall take into consideration previous violations of this chapter or said chapter 151 by the employer, the intent by such employer to violate the provisions of this chapter or said chapter 151, the number of employees affected by the present violation or violations, the monetary extent of the alleged violations, and the total monetary amount of the public contract or payroll involved.

(3) In the case of a citation for violating any provision of section 26, 27, 27A, 27B, 27F, 27G, 27H or 148B, the attorney general may also order that a bond in an amount necessary to rectify the infraction and to ensure compliance with sections 26 to 27H, inclusive, and with other provisions of law, be filed with said attorney general, conditioned upon payment of said rate or rates of wages, including payments to health and welfare funds and pension funds, or the equivalent payment in wages, on said public works to any person performing work within classifications as determined by the commissioner. Upon any failure to comply with the requirements set forth in a citation, said attorney general may order the cessation of all or the relevant portion of the work on the project site. In addition, any contractor or subcontractor failing to comply with the requirements set forth in a citation or order, shall be prohibited from contracting, directly or indirectly, with the commonwealth or any of its agencies or political subdivisions for the construction of any public building or other public works, or from performing any work on the same as a contractor or subcontractor, for a period of one year from the date of issuance of such citation or order. Any contractor or subcontractor who

receives three citations or orders occurring on three different occasions, each of which includes a finding of intent, within a three year period shall automatically be debarred for a period of two years from the date of issuance of the third such citation or order or a final court order, whichever is later. Any debarment hereunder shall also apply to all affiliates of the contractor or subcontractor, as well as any successor company or corporation that said attorney general, upon investigation, determines to not have a true independent existence apart from that of the violating contractor or subcontractor.

- (4) Any person aggrieved by any citation or order issued pursuant to this subsection may appeal said citation or order by filing a notice of appeal with the attorney general and the division of administrative law appeals within ten days of the receipt of the citation or order. Any such appellant shall be granted a hearing before the division of administrative law appeals in accordance with chapter 30A. The hearing officer may affirm or if the aggrieved person demonstrates by a preponderance of evidence that the citation or order was erroneously issued, vacate, or modify the citation or order. Any person aggrieved by a decision of the hearing officer may file an appeal in the superior court pursuant to the provisions of said chapter 30A.
- (5) In cases when the decision of the hearing officer of the division of administrative law appeals is to debar or suspend the employer, said suspension or debarment shall not take effect until 30 days after the issuance of such order; provided, however, that the employer shall not bid on the construction of any public work or building during the aforementioned 30 day period unless the superior court temporarily enjoins the order of debarment or suspension.

- (6) If any person shall fail to comply with the requirements set forth in any order or citation issued by the attorney general hereunder, or shall fail to pay any civil penalty or restitution imposed thereby within 21 days of the date of issuance of such citation or order or within 30 days following the decision of the hearing officer if such citation or order has been appealed, excluding any time during which judicial review of the hearing officer's decision remains pending, said attorney general may apply for a criminal complaint or seek indictment for the violation of the appropriate section of this chapter.
- (7) Notwithstanding the provisions of paragraph (6), if any civil penalty imposed by a citation or order issued by the attorney general remains unpaid beyond the time period specified for payment in said paragraph (6), such penalty amount and any restitution order, together with interest thereon at the rate of 18 per cent per annum, shall be a lien upon the real estate and personal property of the person who has failed to pay such penalty. Such lien shall take effect by operation of law on the day immediately following the due date for payment of such fine, and, unless dissolved by payment, shall as of said date be considered a tax due and owing to the commonwealth, which may be collected through the procedures provided for by chapter 62C. In addition to the foregoing, no officer of any corporation which has failed to pay any such penalty may incorporate or serve as an officer in any corporation which did not have a legal existence as of the date said fine became due and owing to the commonwealth.
- (c) Civil and criminal penalties pursuant to this section shall apply to employers solely with respect to their wage and benefit obligations to their own employees.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 27D "CONSTRUCTION" AND "CONSTRUCTED" DEFINED

Section 27D. Wherever used in sections twenty-six to twenty-seven C, inclusive, the words "construction" and "constructed" as applied to public buildings and public works shall include additions to and alterations of public works, the installation of resilient flooring in, and the painting of, public buildings and public works; certain work done preliminary to the construction of public works, namely, soil explorations, test borings and demolition of structures incidental to site clearance and right of way clearance; and the demolition of any building or other structure ordered by a public authority for the preservation of public health or public safety.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 27E EMPLOYMENT OF RESIDENTS IN HIGHWAY DISTRICTS

Section 27E. At least seventy-five per cent of the persons employed by the department of highways to work in connection with the construction, reconstruction, alteration or repair of any public works, in positions other than those subject to the civil service laws and rules and regulations, shall be residents in the highway district, as then established by said department or its successor in office, in which the work is being done.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 27F Wages of operators of rented equipment;

AGREEMENTS; PENALTY; CIVIL ACTION

Section 27F. No agreement of lease, rental or other arrangement, and no order or requisition under which a truck or any automotive or other vehicle or equipment is to be engaged in public works by the commonwealth or by a county, city, town or district, shall be entered into or given by any public official or public body unless said agreement, order or requisition contains a stipulation requiring prescribed rates of wages, as determined by the commissioner, to be paid to the operators of said trucks, vehicles or equipment. Any such agreement, order or requisition which does not contain said stipulation shall be invalid, and no payment shall be made thereunder. Said rates of wages shall be requested of said commissioner by said public official or public body, and shall be furnished by the commissioner in a schedule containing the classifications of jobs, and the rate of wages to be paid for each job. Said rates of wages shall include payments to health and welfare plans, or, if no such plan is in effect between employers and employees, the amount of such payments shall be paid directly to said operators.

Whoever pays less than said rates of wages, including payments to health and welfare funds, or the equivalent in wages, on said works, and whoever accepts for his own use, or for the use of any other person, as a rebate, gratuity or in any other guise, any part or portion of said wages or health and welfare funds, shall have violated this section and shall be punished or shall be subject to a civil citation or order as provided in section 27C.

An employee claiming to be aggrieved by a violation of this section may, 90 days after the filing of a complaint with the attorney general, or sooner if the attorney general assents in writing, and within 3 years after the violation, institute and prosecute in his own name and on his own behalf, or for himself and for others similarly situated, a civil action for injunctive relief, for any damages incurred, and for any lost wages and other benefits. An employee so aggrieved who prevails in such an action shall be awarded treble damages, as liquidated damages, for any lost wages and other benefits and shall also be awarded the costs of the litigation and reasonable attorneys' fees.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 27G WAGES OF EMPLOYEES OF MOVING CONTRACTORS;

CONTRACTS; INJUNCTIVE RELIEF; DAMAGES

Section 27G. No contract for the moving of office furniture and fixtures shall be entered into or given by the commonwealth or by a county, city, town or district unless said contract contains a stipulation requiring prescribed rates of wages, as determined by the commissioner, to be paid to the employees of a moving contractor. Any such contract which does not contain said stipulation shall be invalid, and no payment shall be made thereunder. Said rates of wages shall be requested of the commissioner by the commonwealth or by a county, city, town or district, and shall be furnished by the commissioner in a schedule containing the classifications of jobs and the rate of wages to be paid for each job. Said rates of wages shall include payments to health and welfare plans, or, if no such plan is in effect between employers and employees, the amount of such payments shall be paid directly to said employees.

An employee claiming to be aggrieved by a violation of this section may, 90 days after the filing of a complaint with the attorney general, or sooner if the attorney general assents in writing, and within 3 years after the

violation, institute and prosecute in his own name and on his own behalf, or for himself and for others similarly situated, a civil action for injunctive relief, for any damages incurred, and for any lost wages and other benefits. An employee so aggrieved who prevails in such an action shall be awarded treble damages, as liquidated damages, for any lost wages and other benefits and shall also be awarded the costs of the litigation and reasonable attorneys' fees.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 27H WAGES OF EMPLOYEES OF MAINTENANCE OR CLEANING

CONTRACTORS; CONTRACTS; CIVIL ACTION

Section 27H. No agreement or contract providing for the cleaning and maintenance of public buildings or space rented by the commonwealth, shall be entered into or given by the commonwealth unless said contract or agreement contains a stipulation requiring prescribed rates of wages, as determined by the commissioners, to be paid to the employees of the maintenance or cleaning contractor. Any such contract which does not contain said stipulation shall be invalid, and no payment shall be made thereunder. Said rates of wages shall be requested of the commissioner, and shall be furnished by the commissioner in a schedule containing the classifications of jobs and rate of wages to be paid for each job. Said rates of wages shall include payments to health and welfare plans and pension plans, or, if no such plan is in effect between employers and employees, the amount of such payments shall be paid directly to said employees. Whoever pays less than said rates of wages, including payments to health and welfare funds and pension funds, or the equivalent in wages, on said works, and whoever accepts for his own use, or for the use of any other person as a rebate, gratuity or in any other guise, any part or portion of

said wages, health and welfare funds or pension funds, shall have violated this section and shall be punished or shall be subject to a civil citation or order as provided in section 27C.

An employee claiming to be aggrieved by a violation of this section may, 90 days after the filing of a complaint with the attorney general, or sooner if the attorney general assents in writing, and within 3 years after the violation, institute and prosecute in his own name and on his own behalf, or for himself and for others similarly situated, a civil action for injunctive relief, for any damages incurred, and for any lost wages and other benefits. Any employee so aggrieved who prevails in such an action shall be awarded treble damages, as liquidated damages, for any lost wages and other benefits and shall also be awarded the costs of the litigation and reasonable attorneys' fees.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 34 PUBLIC CONTRACTS; STIPULATION AS TO HOURS AND DAYS

OF WORK; VOID CONTRACTS

Section 34. Every contract, except for the purchase of material or supplies, involving the employment of laborers, workmen, mechanics, foremen or inspectors, to which the commonwealth or any county or any town, subject to section thirty, is a party, shall contain a stipulation that no laborer, workman, mechanic, foreman or inspector working within the commonwealth, in the employ of the contractor, sub-contractor or 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 more than forty-eight hours in any one week, or more than six days in any one week, except in cases of emergency, or, in case any town subject to section thirty-one is a party to such a contract, more than eight hours in any one day, except as aforesaid; provided, that in contracts entered into by the department of highways for the construction or reconstruction of highways there may be inserted in said stipulation a provision that said department, or any contractor or sub-contractor for said department, may employ laborers, workmen, mechanics, foremen and inspectors for more than eight hours

in any one day in such construction or reconstruction when, in the opinion of the commissioner, public necessity so requires. Every such contract not containing the aforesaid stipulation shall be null and void.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 34A CONTRACTS FOR PUBLIC WORKS; WORKERS'

COMPENSATION INSURANCE; BREACH OF CONTRACT;

ENFORCEMENT AND VIOLATION OF STATUTE

Section 34A. Every contract for the construction, alteration, maintenance, repair or demolition of, or addition to, any public building or other public works for the commonwealth or any political subdivision thereof shall contain stipulations requiring that the contractor shall, before commencing performance of such contract, provide by insurance for the payment of compensation and the furnishing of other benefits under chapter one hundred and fifty-two to all persons to be employed under the contract, and that the contractor shall continue such insurance in full force and effect during the term of the contract. No officer or agent contracting in behalf of the commonwealth or any political subdivision thereof shall award such a contract until he has been furnished with sufficient proof of compliance with the aforesaid stipulations. Failure to provide and continue in force such insurance as aforesaid shall be deemed a material breach of the contract and shall operate as an immediate termination thereof. No cancellation of such insurance, whether by the insurer or by the insured, shall be valid unless written

notice thereof is given by the party proposing cancellation to the other party and to the officer or agent who awarded the contract at least fifteen days prior to the intended effective date thereof, which date shall be expressed in said notice. Notice of cancellation sent by the party proposing cancellation by registered mail, postage prepaid, with a return receipt of the addressee requested, shall be a sufficient notice. An affidavit of any officer, agent or employee of the insurer or of the insured, as the case may be, duly authorized for the purpose, that he has so sent such notice addressed as aforesaid shall be prima facie evidence of the sending thereof as aforesaid. This section shall apply to the legal representative, trustee in bankruptcy, receiver, assignee, trustee and the successor in interest of any such contractor. The superior court shall have jurisdiction in equity to enforce this section.

Whoever violates any provision of this section shall be punished by a fine of not more than one hundred dollars or by imprisonment for six months, or both; and, in addition, any contractor who violates any provision of this section shall be prohibited from contracting, directly or indirectly, with the commonwealth or any political subdivision thereof, for the construction, alteration, demolition, maintenance or repair of, or addition to, any public works or public building for a period of two years from the date of conviction of said violation.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 34B CONTRACTS FOR PUBLIC WORKS; WAGES FOR RESERVE

POLICE OFFICER

Section 34B. Every contract for the construction, alteration, maintenance, repair or demolition of, or addition to, any public works for the commonwealth or any political subdivision thereof shall contain stipulations requiring that the contractor shall pay to any reserve police officer employed by him in any city or town the prevailing rate of wage paid to regular police officers in such city or town.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 44A DEFINITIONS APPLICABLE TO SECS. 44A TO 44H;

COMPETITIVE BIDS ON CONSTRUCTION, ETC., OF PUBLIC

WORKS; AWARD; BONDS; EXTREME EMERGENCY

SITUATIONS; RECORDS CONTRACTS NOT SUBJECTED TO

COMPETITIVE BID PROCESS

Section 44A. (1) The words defined in this section shall have the meaning set forth below whenever they appear in sections forty-four A through forty-four H, inclusive, of this chapter unless indicated otherwise or unless the context in which they are used clearly requires a different meaning.

"Commissioner", means the commissioner of the division of capital asset management and maintenance or his designee.

"Public Agency" means a department, agency, board, commission, authority, or other instrumentality of the commonwealth or political subdivision of the commonwealth, or two or more subdivisions thereof but not including the Massachusetts Bay Transportation Authority;

"Responsible" means demonstrably possessing the skill, ability and integrity necessary to faithfully perform the work called for by a particular contract, based upon a determination of competent workmanship and financial soundness in accordance with the provisions of section forty-four D of this chapter;

"Eligible" means able to meet all requirements for bidders or offerors set forth in sections forty-four A through forty-four H of this chapter and not debarred from bidding under section forty-four C of this chapter or any other applicable law, and who shall certify that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work.

"Modular Building", a pre-designed building or units of a pre-designed building assembled and equipped with internal plumbing, electrical or similar systems prior to movement to the site where such units are attached to each other and such building is affixed to a foundation and connected to external utilities; or any portable structure with walls, a floor, and a roof, designed or used for the shelter of persons or property, transportable in one or more sections and affixed to a foundation and connected to external utilities.

"Procurement", buying, purchasing, or otherwise acquiring and installing a modular building, and all functions that pertain to the acquisition and installation of a modular building, including description of requirements, selection and solicitation of sources, preparation and award of contract, and all phases of contract administration.

"Proprietary environmental technology systems", systems, in the town of Nantucket, including solid waste related equipment, supporting structures, and buildings, designed, manufactured, and produced under exclusive individual right to sell such product, pertaining to solid waste related environmental protection or remediation. Such systems shall include, but not be limited to, sequential, turnkey, construction management, design/build procurement, and the phasing of such procurement, including approval of design and construction stages as separate or combined phases.

- (2)(A) Every contract or procurement for the construction, reconstruction, installation, demolition, maintenance or repair of a building by a public agency estimated to cost less than \$10,000 shall be obtained through the exercise of sound business practices as defined in section 2 of chapter 30B. The public agency shall make and keep a record of each procurement that, at a minimum, shall include the name and address of the person from whom the services were procured. A public agency that utilizes a vendor on a statewide contract procured through the operational services division of the commonwealth, or a blanket contract procured by the public agency pursuant to this subsection, shall be deemed to have obtained the contract through sound business practices.
- (B) Every contract for the construction, reconstruction, installation, demolition, maintenance or repair of any building estimated to cost not less than \$10,000 but not more than \$50,000 shall be awarded to the responsible person offering to perform the contract at the lowest price. The public agency shall make public notification of the contract and shall seek written responses from no fewer than 3 persons who customarily perform such work. The solicitation shall include a scope-of-work statement that defines the work to be performed and provides potential responders with sufficient information regarding the objectives and requirements of the public agency and the time period within which the work shall be completed. The public agency shall record the names and

addresses of all persons from whom written responses were sought, the names of the persons submitting written responses and the date and amount of each written response. A public agency may utilize a vendor list established through a statewide contract procured through the operational services division to identify 1 or more of the persons from whom it will seek written responses for purposes of this paragraph. A public agency may also procure a blanket contract to establish a listing of vendors in certain defined categories of work that are under contract to provide services for multiple individual tasks of not more than \$50,000 each, and from whom written responses will be sought. Any such blanket contract procured by the awarding authority shall be procured pursuant to either section 39M of chapter 30 or sections 44A to 44J, inclusive, of chapter 149 which are applicable to projects over \$50,000. For purposes of this paragraph, the term "public notification" shall include, but not be limited to, posting at least 2 weeks before the time specified in the notification for the receipt of responses, the contract and scope-of-work statement: (1) on the website of the public agency, (2) on the COMMBUYS system administered by the operational services division, (3) in the central register published pursuant to section 20A of chapter 9 and (4) in a conspicuous place in or near the primary office of the public agency; provided, however, that if the public agency obtains a minimum of 2 written responses from a vendor list established through a blanket contract or a statewide contract procured through the operational services division, and the lowest of those written responses is deemed acceptable to the public agency, public notification is not required.

(C) Every contract for the construction, reconstruction, installation, demolition, maintenance or repair of any building by a public agency estimated to cost more than \$50,000 but not more than \$150,000, except

for a pumping station to be constructed as an integral part of a sewer construction or water construction project bid under the provisions of section 39M of chapter 30, shall be awarded to the lowest responsible and eligible bidder on the basis of competitive bids publicly opened and read in accordance with the procedure set forth in said section 39M of said chapter 30. The term "pumping station" as used in this section shall mean a building or other structure which houses solely pumps and appurtenant electrical and plumbing fixtures.

- (D) Every contract for the construction, reconstruction, installation, demolition, maintenance or repair of any building by a public agency estimated to cost more than \$150,000, except for a pumping station to be constructed as an integral part of a sewer construction or water construction project bid under the provisions of section 39M of chapter 30, shall be awarded to the lowest responsible and eligible general bidder on the basis of competitive bids in accordance with the procedure set forth in section 44A to 44H, inclusive.
- (E) When the general court has approved the use of an alternative mode of procurement of construction for a project pursuant to section 7E of chapter 29, the awarding authority responsible for procuring construction services for the project shall follow the policies and procedures of this section and of section 44B to 44H, inclusive, to the extent compatible with the mode of construction procurement selected.
- (F) Notwithstanding paragraph (E), a public agency may undertake the procurement of modular buildings, in accordance with section 44E. A public agency may procure site work for modular buildings, including but not limited to, construction of foundations, installations, and attachment to external utilities, or any portion of site work, either in combination

- with the procurement of modular buildings pursuant to section 44E or on the basis of competitive bids pursuant to the paragraph (E).
- Notwithstanding the paragraph (E), a public agency may procure energy management services in accordance with section 11C of chapter 25A and regulations promulgated thereunder.
- (G) Every contract by a state agency or state assisted contract for design, construction, reconstruction, installation, demolition, maintenance or repair shall set forth the participation goals of minority and women workers to be employed on each such contract and the processes and procedures to ensure compliance with those workforce participation goals, including reporting and enforcement provisions.
- (3) The award of every such contract in connection with which approval by an officer, board or agency of the federal government is required shall be made within thirty days, Saturdays, Sundays and legal holidays excluded, after such approval; and the award of every contract subject to this section in connection with which approval by an officer, board or agency of the federal government is not required shall be made within thirty days, Saturdays, Sundays and legal holidays excluded, after the opening of the bids therefor. If the bidder selected as the general contractor fails to perform his agreement to execute a contract in accordance with the terms of his bid and furnish a performance bond and also a labor and materials or payment bond as stated in his bid in accordance with section forty-four E, an award shall be made to the next lowest responsible and eligible bidder, subject to the provisions of sections forty-four A to forty-four H, inclusive, of this chapter. The thirty-day time limit shall not be applicable to a second or subsequent award made after expiration of the time limit with the consent of said next lowest responsible and eligible bidder, and made because the

original award made within the time limit was invalid, or because the bidder failed to execute the contract or to provide a performance bond and labor and materials or payment bond.

(4) In cases of extreme emergency, the awarding authority may, with the prior approval of the commissioner, award a contract for that portion of the work necessary to preserve the health or safety of persons or property or to alleviate an imminent security threat on the basis of such competitive bids or proposals as it can obtain in time to care for the extreme emergency and without public opening of the bids or proposals.

Where the nature of the emergency prevents the awarding authority from obtaining the prior approval of the commissioner, the awarding authority may contract for the necessary work without said prior approval; provided, however, that the approval of the commissioner shall still be sought at the earliest possible time; and provided, further, that if the commissioner at that time fails to approve the emergency determination the awarding authority shall promptly cease all work for which the emergency determination was denied. In such cases, the contractor shall be entitled to payment for the fair value of the labor and materials furnished prior to cessation of the work.

The commissioner shall maintain a record of all contracts awarded pursuant to this subsection, containing a description of the circumstances and the reasons for the commissioner's determination.

(5) (a) Notwithstanding the provisions of this section or any other general or special law to the contrary, a municipality may enter into a contract for proprietary environmental technology systems as defined in subsection (1) of this section without said contract being subject to the competitive bid process as set forth in sections thirty-eight A.5 to thirty-eight O,

inclusive, of chapter seven; this section and sections forty-four B to forty-four H, inclusive, of this chapter, and section thirty-nine M of chapter thirty; provided that the awarding authority meets the conditions set forth and receives the approvals required in paragraph (b) of this subsection.

(b) Prior to the issuance of any request for proposal with respect to the awarding of any contract pursuant to the provisions of paragraph (a) of this subsection, the awarding authority shall meet or obtain each of the following conditions or required approvals: (1) the municipality shall appoint qualified persons to conduct a thorough review of all available environmental technology, including both proprietary and nonproprietary environmental technology, and if the conclusion of this review is that a contract for proprietary environmental technology systems is in the public interest, such conclusion shall be supported by sound documented reasons in writing available for public inspection; (2) the city council, the board of selectmen, or the town meeting shall take a majority vote finding that it is in the public interest to enter into a contract for proprietary environmental technology systems, as defined in subsection (1) of this section, providing such vote is supported by the conclusion of the review conducted pursuant to condition (1); (3) both the attorney general and the commissioner of the department of environmental protection shall grant written approval; (4) said contract shall be subject to any limitation in the waiver of sections thirty-eight A.5 to thirty-eight O, inclusive, of chapter seven, sections forty-four A to forty-four H of chapter one hundred and forty-nine, and section thirtynine M of chapter thirty imposed by either the attorney general or the commissioner of the department of environmental protection as a condition for a grant of approval by said officers; and (5) every proprietary environmental technology systems contract shall be as

compatible with sections thirty-eight A to thirty-eight O, inclusive, of chapter seven, sections forty-four A to forty-four H of chapter one hundred and forty-nine, and section thirty-nine M of chapter thirty as is feasible for the procurement of the proprietary environmental technology systems chosen.

Title XXI LABOR AND INDUSTRIES

Chapter 149 LABOR AND INDUSTRIES

Section 44J INVITATIONS TO BID; NOTICE; CONTENTS; VIOLATIONS;

PENALTY

Section 44J. (1) No public agency or authority of the commonwealth or any political subdivision thereof shall award any contract for which competitive bids are required pursuant to section forty-four A of this chapter or section thirty-nine M of chapter thirty, or for which competitive proposals are required pursuant to subsection (4) of section forty-four E of this chapter or section eleven C of chapter twenty-five A, unless a notice inviting bids or proposals therefor shall have been posted no less than one week prior to the time specified in such notice for the receipt of said bids or proposals in a conspicuous place in or near the offices of the awarding authority, and shall have remained posted until the time so specified, and unless such notice shall also have been published at least once not less than two weeks prior to the time so specified in the central register published by the secretary of state pursuant to section twenty A of chapter nine and in a newspaper of general circulation in the locality of the proposed project, and on the COMMBUYS system administered by the operational services division. Said notice shall also be published at such other times and in such other

newspapers or trade periodicals as the commissioner of capital asset management and maintenance may require, having regard to the locality of the work involved.

(2) Said notice shall specify the time and place where plans and specifications of the proposed work may be had; the time and place of submission of general bids; and the time and place for opening of the general bids. For contracts subject to the provisions of sections forty-four A to H, inclusive, of this chapter, said notice shall also specify the time and place for submission of filed sub-bids, where required pursuant to section forty-four F; and the time and place for opening of said filed sub-bids.

Said notice shall also provide sufficient facts concerning the nature and scope of such project, the type and elements of construction, and such other information as will assist applicants in deciding to bid on such contract.

- (3) No contract or preliminary plans and specifications shall be split or divided for the purpose of evading the provisions of this section.
- (4) General bids and filed sub-bids for any contract subject to this section shall be in writing and shall be opened in public at the time and place specified in the posted or published notice, and after being so opened shall be open to public inspection.
- (5) The provisions of this section shall not apply to any transaction between the commonwealth and any public service corporation.
- (6) The provisions of this section may be waived in cases of extreme emergency involving the health and safety of the people and their property, upon the written approval of said commissioner. The written

approval shall contain a description of the circumstances and the reasons for the commissioner's determination.

(7) Whoever violates any provision of this section shall be punished by a fine of not more than ten thousand dollars or by imprisonment in the state prison for not more than three years or in a jail or house of correction for not more than two and one-half years, or by both said fine and imprisonment; and in the event of final conviction, said person shall be incapable of holding any office of honor, trust or profit under the commonwealth or under any county, district of municipal agency.

Each and every person who shall cause or conspire to cause any contract or preliminary plans and specifications to be split or divided for the purpose of evading the provisions of this section shall forfeit and pay to the commonwealth, a political subdivision thereof or other awarding authority subject to this section, the sum of not more than five thousand dollars and, in addition, such person or persons shall pay, apportioned among them, double the amount of damages which the commonwealth or political subdivision thereof or other awarding authority may have sustained by reason of the doing of such act, together with the costs of the action.

(8) If an awarding authority rejects all general bids or does not receive any general bids, and advertises for a second opening of general bids with the original filed sub-bids as set forth in subsection (1) of section forty-four E the notice for receipt of such general bids may be published in the central register and elsewhere as required not less than one week prior to the time specified for such second opening of general bids.

(9) No request for proposals or invitation for bids issued under sections 38A.5 to 38O, inclusive, of chapter 7, section 11C of chapter 25A, section 39M of chapter 30, this section and sections 44A to 44H, inclusive, shall be advertised if the awarding authority's cost estimate is greater than 1 year old.



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

LAUREN JONES Secretary

MICHAEL FLANAGAN
Director

KIM DRISCOLL Lt. Governor

Awarding Authority:

Town of Truro

Contract Number: City/Town: TRURO

Description of Work: proposed parking lot, drainage, and beach access improvements at the Great Hollow Beach parking lot

Job Location: Great Hollow Rd

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- 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 no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, the awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. The updated wage schedule must be provided to all contractors, including general and sub-contractors, working on the construction project.
- This annual update requirement is generally not applicable to 27F "rental of equipment" contracts. For such contracts, the prevailing wage rates issued by DLS shall remain in effect for the duration of the contract term. However, if the prevailing wage rate sheet issued does not contain wage rates for each year covered by the contract term, the Awarding Authority must request updated rate sheets from DLS and provide them to the contractor to ensure the correct rates are being paid throughout the duration of the contract. Additionally, if an Awarding Authority exercises an option to renew or extend the contract term, they must request updated rate sheets form DLS and provide them to the contractor.
- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or a sub-contractor.
- Apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentices must keep their apprentice identification card on their persons during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. Any apprentice not registered with DAS regardless of whether they are registered with another federal, state, local, or private agency must be paid the journeyworker's rate.
- Every contractor or subcontractor working on the construction project must submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. For a sample payroll reporting form go to 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
- Contractors must obtain the wage schedules from awarding authorities. 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.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may file a complaint with the Fair Labor Division of the office of the Attorney General at (617) 727-3465.

Issue Date: 02/18/2025 **Wage Request Number:** 20250217-007

CANALLY DRIVER - LQUIPMENT TEAMSTERS ADDIT COLNICE NO. 10 ZONE B (20 LOUZE) (3 ALLE) DRIVER - LQUIPMENT TEAMSTERS ADDIT COLNICE NO. 10 ZONE B (20 LOUZE) (3 ALLE) DRIVER - LQUIPMENT (3 ALLE) DRIVER - LQUIPMENT (4 AS SAXLE) DRIVER - LQUIPMENT (4 AS SAXLE) DRIVER - LQUIPMENT (5 ALLE) DRIVER - LQUIPMENT (6 ALLE) DRIVER - LQUIPMENT (7 ALLE) DRIVER - LQUIPMENT (8 ALLE) DRIVER - LQUIPMENT (9 ALLE	Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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3 ANLE] DRIVER - EQUIPMENT		06/01/2026	\$41.95	\$16.17	\$21.78	\$0.00	\$79.90
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 ZONE B (601/2025 S41.02 S15.57 S20.17 S0.00 \$75.76 12/01/2025 S41.02 S15.57 S20.17 S0.00 \$78.37 12/01/2025 S41.02 S15.57 S20.17 S0.00 \$78.37 12/01/2026 S41.02 S15.57 S20.17 S0.00 \$78.37 12/01/2026 S41.02 S16.17 S21.78 S0.00 \$78.97 12/01/2026 S42.02 S16.17 S21.78 S0.00 \$78.97 12/01/2026 S42.02 S16.17 S21.78 S0.00 \$78.97 12/01/2026 S42.02 S16.17 S23.52 S0.00 S81.71 10/10/2027 S42.02 S16.17 S23.52 S0.00 S81.71 10/10/2025 S40.14 S15.57 S20.17 S0.00 S75.88 12/01/2025 S41.14 S15.57 S20.17 S0.00 S75.88 12/01/2025 S41.14 S15.57 S20.17 S0.00 S78.49 11/01/2026 S41.14 S15.57 S20.17 S0.00 S78.49 11/01/2026 S41.14 S15.57 S21.78 S0.00 S78.49 11/01/2026 S41.14 S15.17 S21.78 S0.00 S78.49 11/01/2026 S41.14 S15.17 S21.78 S0.00 S78.49 11/01/2026 S41.14 S16.17 S21.78 S0.00 S78.49 11/01/2027 S42.14 S16.17 S21.78 S0.00 S78.49 11/01/2027 S42.14 S16.17 S23.52 S0.00 S82.43 11/01/2026 S42.14 S16.17 S23.52 S0.00 S82.43 11/01/2027 S42.14 S16.17 S23.52 S0.00 S82.43 11/01/2028 S42.00 S86.5 S17.70 S0.00 S72.17 11/01/2028 S43.88 S96.5 S17.70 S0.00 S72.17 11/01/2028 S43.88 S96.5 S17.70 S0.00 S73.61 11/01/2028 S43.88 S96.5 S17.70 S0.00 S63.53 11/01/2028		12/01/2026	\$41.95	\$16.17	\$23.52	\$0.00	\$81.64
TEMBRERS JOINT COUNCIL NO. 10 ZONE B 06/01/2025 \$41.02 \$15.57 \$20.17 \$0.00 \$76.76 12/01/2025 \$41.02 \$15.57 \$21.78 \$0.00 \$78.37 01/01/2026 \$41.02 \$16.17 \$21.78 \$0.00 \$78.37 01/01/2026 \$42.02 \$16.17 \$21.78 \$0.00 \$78.97 12/01/2026 \$42.02 \$16.17 \$23.52 \$0.00 \$81.71 01/01/2027 \$42.02 \$16.17 \$23.52 \$0.00 \$81.71 01/01/2027 \$42.02 \$16.77 \$23.52 \$0.00 \$82.31 01/01/2025 \$41.14 \$15.57 \$23.52 \$0.00 \$578.88 01/01/2025 \$41.14 \$15.57 \$23.77 \$0.00 \$78.88 12/01/2025 \$41.14 \$15.57 \$21.78 \$0.00 \$78.89 01/01/2026 \$41.14 \$15.57 \$21.78 \$0.00 \$78.89 01/01/2026 \$41.14 \$16.17 \$21.78 \$0.00 \$78.89 01/01/2026 \$41.14 \$16.17 \$21.78 \$0.00 \$78.09 06/01/2026 \$42.14 \$16.17 \$22.52 \$0.00 \$81.83 01/01/2027 \$42.14 \$16.17 \$22.52 \$0.00 \$81.83 01/01/2027 \$42.14 \$16.17 \$22.52 \$0.00 \$81.83 01/01/2027 \$42.14 \$16.17 \$22.52 \$0.00 \$81.83 01/01/2027 \$42.14 \$16.17 \$22.52 \$0.00 \$81.83 01/01/2027 \$42.14 \$16.17 \$22.52 \$0.00 \$81.83 01/01/2027 \$42.14 \$16.17 \$22.52 \$0.00 \$82.43 ADDS/SUBMERSIBLE PILOT \$0.801/2024 \$117.16 \$10.08 \$24.29 \$0.00 \$81.83 01/01/2027 \$42.14 \$16.77 \$23.52 \$0.00 \$82.43 ADDS/SUBMERSIBLE PILOT \$0.801/2024 \$40.61 \$9.65 \$17.70 \$0.00 \$67.96 01/01/2028 \$42.24 \$16.77 \$23.52 \$0.00 \$67.96 01/01/2028 \$44.82 \$9.65 \$17.70 \$0.00 \$67.96 02/01/2028 \$44.82 \$9.65 \$17.70 \$0.00 \$67.50 06/01/2028 \$44.82 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2028 \$59.65 \$17.70 \$0.00 \$73.61 06/01/2028 \$59.65 \$17.70 \$0.00 \$73.61 06/01/2028 \$59.65 \$17.70 \$0.00 \$73.61 06/01/2028 \$44.82 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2028 \$44.82 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2028 \$44.82 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2028 \$44.82 \$9.65 \$17.80		01/01/2027	\$41.95	\$16.77	\$23.52	\$0.00	\$82.24
\$41.02 \$15.57 \$20.17 \$0.00 \$76.76 \$12.01/2025 \$41.02 \$15.57 \$21.78 \$0.00 \$78.37 \$12.01/2026 \$41.02 \$16.17 \$21.78 \$0.00 \$78.37 \$16.01/2026 \$42.02 \$16.17 \$21.78 \$0.00 \$79.97 \$12.01/2026 \$42.02 \$16.17 \$23.52 \$0.00 \$81.71 \$12.01/2026 \$42.02 \$16.17 \$23.52 \$0.00 \$81.71 \$12.01/2025 \$40.14 \$15.57 \$23.52 \$0.00 \$82.31 \$12.01/2025 \$40.14 \$15.57 \$20.17 \$0.00 \$75.88 \$12.01/2025 \$41.14 \$15.57 \$20.17 \$0.00 \$76.88 \$12.01/2025 \$41.14 \$15.57 \$21.78 \$0.00 \$76.88 \$12.01/2025 \$41.14 \$15.57 \$21.78 \$0.00 \$76.88 \$12.01/2025 \$41.14 \$16.17 \$21.78 \$0.00 \$79.99 \$06.01/2025 \$41.14 \$16.17 \$21.78 \$0.00 \$79.99 \$06.01/2026 \$42.14 \$16.17 \$21.78 \$0.00 \$79.99 \$06.01/2026 \$42.14 \$16.17 \$21.78 \$0.00 \$80.09 \$12.01/2026 \$42.14 \$16.17 \$21.78 \$0.00 \$80.09 \$12.01/2026 \$42.14 \$16.17 \$21.78 \$0.00 \$80.09 \$12.01/2026 \$42.14 \$16.17 \$21.78 \$0.00 \$81.83 \$10.01/2027 \$42.14 \$16.17 \$23.52 \$0.00 \$81.83 \$10.01/2026 \$42.14 \$16.17 \$23.52 \$0.00 \$81.83 \$10.01/2027 \$42.14 \$16.17 \$23.52 \$0.00 \$81.83 \$10.01/2026 \$42.14 \$16.17 \$23.52 \$0.00 \$82.43 \$10.01/2026 \$42.14 \$16.17 \$23.52 \$0.00 \$82.43 \$10.01/2026 \$42.14 \$16.17 \$23.52 \$0.00 \$82.43 \$10.01/2027 \$42.14 \$16.77 \$23.52 \$0.00 \$82.43 \$10.01/2028 \$10.01/2024 \$10.01 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00	(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	01/01/2025	\$40.02	\$15.57	\$20.17	\$0.00	\$75.76
		06/01/2025	\$41.02	\$15.57	\$20.17	\$0.00	\$76.76
		12/01/2025	\$41.02	\$15.57	\$21.78	\$0.00	\$78.37
12/01/2026 \$42.02 \$16.17 \$23.52 \$0.00 \$81.71 01/01/2027 \$42.02 \$16.77 \$23.52 \$0.00 \$82.31 01/01/2027 \$42.02 \$16.77 \$23.52 \$0.00 \$82.31 01/01/2025 \$40.14 \$15.57 \$20.17 \$0.00 \$75.88 06/01/2025 \$41.14 \$15.57 \$20.17 \$0.00 \$76.88 06/01/2025 \$41.14 \$15.57 \$21.78 \$0.00 \$76.88 01/01/2026 \$41.14 \$15.77 \$21.78 \$0.00 \$79.09 06/01/2026 \$42.14 \$16.17 \$21.78 \$0.00 \$79.09 06/01/2026 \$42.14 \$16.17 \$23.52 \$0.00 \$88.09 12/01/2026 \$42.14 \$16.17 \$23.52 \$0.00 \$88.09 12/01/2027 \$42.14 \$16.77 \$23.52 \$0.00 \$82.43 ADSSUBMERSIBLE PILOT \$0.001/2027 \$42.14 \$16.77 \$23.52 \$0.00 \$82.43 ADSSUBMERSIBLE PILOT \$0.001/2027 \$42.14 \$16.77 \$23.52 \$0.00 \$82.43 ADSCUBMERS 2 \$0.001/2025 \$42.00 \$9.65 \$17.70 \$0.00 \$69.35 ABORGERS - ZONE 2 \$60.01/2025 \$43.38 \$9.65 \$17.70 \$0.00 \$70.73 ABORGERS - ZONE 2 \$60.01/2025 \$43.38 \$9.65 \$17.70 \$0.00 \$70.73 ABORGERS - ZONE 2 \$60.01/2025 \$44.82 \$9.65 \$17.70 \$0.00 \$70.73 ABORGERS - ZONE 2 \$60.01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2028 \$80.06 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2028 \$80.01 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2025 \$43.38 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2025 \$43.80 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$75.61 \$60.01/2026		01/01/2026	\$41.02	\$16.17	\$21.78	\$0.00	\$78.97
10101/2027 \$42.02 \$16.77 \$23.52 \$0.00 \$82.31 (4 & 5 AXLE) DRIVER - EQUIPMENT		06/01/2026	\$42.02	\$16.17	\$21.78	\$0.00	\$79.97
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 16 JONE B 06'01/2025 \$41.14 \$15.57 \$20.17 \$0.00 \$75.88 12'01/2025 \$41.14 \$15.57 \$20.17 \$0.00 \$76.88 12'01/2026 \$41.14 \$15.57 \$21.78 \$0.00 \$78.49 01'01/2026 \$41.14 \$15.57 \$21.78 \$0.00 \$78.49 01'01/2026 \$41.14 \$16.17 \$21.78 \$0.00 \$78.49 01'01/2026 \$41.14 \$16.17 \$21.78 \$0.00 \$80.09 12'01/2026 \$42.14 \$16.17 \$23.52 \$0.00 \$81.83 01'01/2027 \$42.14 \$16.17 \$23.52 \$0.00 \$82.43 ADS/SUBMERSIBLE PILOT 08'01/2024 \$117.16 \$10.08 \$24.29 \$0.00 \$151.53 PILE DRIVER LOCAL 56 (ZONE 2) For apprentice rates see "Apprentice-PILE DRIVER" AIR TRACK OPERATOR 12'01/2024 \$40.61 \$9.65 \$17.70 \$0.00 \$67.96 LABORERS - ZONE 2 06'01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$70.73 06'01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$770.73 06'01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.06 12'01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$775.01 AIR TRACK OPERATOR (HEAVY & HIGHWAY) 12'01/2028 \$44.82 \$9.65 \$17.80 \$0.00 \$775.01 For apprentice-rates see "ApprenticeLABORER" AIR TRACK OPERATOR (HEAVY & HIGHWAY) 12'01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06'01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$773.71 For apprentice- rates see "Apprentice LABORER (Henvy and Highway) ASBESTOS REMOVER - PIPE / MECH. EQUIPT. 12'01/2024 \$43.80 \$14.50 \$11.05 \$0.00 \$68.35 14'01/2024 \$44.80 \$10.50 \$11.05 \$0.00 \$68.35 14'01/2024 \$44.80 \$10.50 \$11.05 \$0.00 \$68.35 14'01/2024 \$44.80 \$10.50 \$11.05 \$0.00 \$68.35 14'01/2024 \$44.80 \$9.65 \$17.80 \$0.00 \$70.37 15'01/2024 \$44.80 \$9.65 \$17.80 \$0.00 \$		12/01/2026	\$42.02	\$16.17	\$23.52	\$0.00	\$81.71
TEAMSTERS JOINT COUNCIL NO. 10 20NE B		01/01/2027	\$42.02	\$16.77	\$23.52	\$0.00	\$82.31
12/01/2025 \$41.14 \$15.57 \$20.17 \$0.00 \$76.88 12/01/2025 \$41.14 \$15.57 \$21.78 \$0.00 \$78.49 01/01/2026 \$42.14 \$16.17 \$21.78 \$0.00 \$79.09 06/01/2026 \$42.14 \$16.17 \$21.78 \$0.00 \$80.09 12/01/2026 \$42.14 \$16.17 \$21.78 \$0.00 \$80.09 12/01/2026 \$42.14 \$16.17 \$23.52 \$0.00 \$81.83 01/01/2027 \$42.14 \$16.77 \$23.52 \$0.00 \$82.43 ADS/SUBMERSIBLE PILOT 08/01/2024 \$117.16 \$10.08 \$24.29 \$0.00 \$81.53 For apprentice rates see "Apprentice-PILE DRIVER" \$12/01/2024 \$40.61 \$9.65 \$17.70 \$0.00 \$67.96 LABORERS - ZONE 2 60/01/2025 \$43.20 \$9.65 \$17.70 \$0.00 \$69.35 12/01/2025 \$43.38 \$9.65 \$17.70 \$0.00 \$70.73 06/01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2027 \$47.71 \$9.65 \$17.70 \$0.00 \$75.06 06/01/2027 \$47.71 \$9.65 \$17.70 \$0.00 \$75.06 06/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$75.06 12/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$75.06 12/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$75.01 For apprentice rates see "Apprentice- LABORER" \$12/01/2024 \$40.61 \$9.65 \$17.70 \$0.00 \$75.01 ALBORERS - ZONE 2 (HEATY & HIGHWAY) \$12/01/2024 \$40.61 \$9.65 \$17.80 \$0.00 \$70.83 12/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.	(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	01/01/2025	\$40.14	\$15.57	\$20.17	\$0.00	\$75.88
No.		06/01/2025	\$41.14	\$15.57	\$20.17	\$0.00	\$76.88
No.		12/01/2025	\$41.14	\$15.57	\$21.78	\$0.00	\$78.49
12/01/2026 542.14 \$16.17 \$23.52 \$0.00 \$81.83		01/01/2026	\$41.14	\$16.17	\$21.78	\$0.00	\$79.09
No.		06/01/2026			\$21.78	\$0.00	\$80.09
No.		12/01/2026	\$42.14	\$16.17	\$23.52	\$0.00	\$81.83
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 (200K 2) For apprentice rates see "Apprentice-PILE DRIVER" 12/01/2024 \$40.61 \$9.65 \$17.70 \$0.00 \$67.96 LABORERS - ZONE 2		01/01/2027			\$23.52	\$0.00	
AIR TRACK OPERATOR LABORERS - ZONE 2 12/01/2024 \$40.61 \$9.65 \$17.70 \$0.00 \$67.96 12/01/2025 \$42.00 \$9.65 \$17.70 \$0.00 \$69.35 12/01/2025 \$43.38 \$9.65 \$17.70 \$0.00 \$70.73 06/01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$70.73 12/01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$72.17 12/01/2026 \$46.26 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2027 \$47.71 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2027 \$47.71 \$9.65 \$17.70 \$0.00 \$75.06 12/01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$75.06 12/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$79.51 For apprentice rates see "Apprentice- LABORER" AIR TRACK OPERATOR (HEAVY & HIGHWAY) 12/01/2024 \$40.61 \$9.65 \$17.80 \$0.00 \$68.06 LABORERS - ZONE 2 (HEAVY & HIGHWAY) 06/01/2025 \$42.00 \$9.65 \$17.80 \$0.00 \$69.45 12/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$73.71 ASBESTOS REMOVER - PIPE / MECH. EQUIPT. 12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$68.35 HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35	ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 (ZONE 2)				\$24.29	\$0.00	
ABBESTOS REMOVER - PIPE / MECH. EQUIPT. ASBESTOS REMOVER - PIPE / ME	For apprentice rates see "Apprentice- PILE DRIVER"						
06/01/2025 \$42.00 \$9.65 \$17.70 \$0.00 \$69.35 12/01/2025 \$43.38 \$9.65 \$17.70 \$0.00 \$70.73 06/01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$72.17 12/01/2026 \$46.26 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2027 \$47.71 \$9.65 \$17.70 \$0.00 \$75.06 12/01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$75.06 12/01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$76.51 06/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$79.51 For apprentice rates see "Apprentice- LABORER" AIR TRACK OPERATOR (HEAVY & HIGHWAY) 12/01/2024 \$40.61 \$9.65 \$17.80 \$0.00 \$68.06 LABORERS - ZONE 2 (HEAVY & HIGHWAY) 12/01/2025 \$42.00 \$9.65 \$17.80 \$0.00 \$69.45 12/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$72.27 12/01/2026 \$46.26 \$9.65 \$17.80 \$0.00 \$73.71 ASBESTOS REMOVER - PIPE / MECH. EQUIPT. 12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$68.35 HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35	AIR TRACK OPERATOR LABORERS - ZONE 2	12/01/2024	\$40.61	\$9.65	\$17.70	\$0.00	\$67.96
06/01/2026 \$44.82 \$9.65 \$17.70 \$0.00 \$72.17 12/01/2026 \$46.26 \$9.65 \$17.70 \$0.00 \$73.61 12/01/2027 \$47.71 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2027 \$47.71 \$9.65 \$17.70 \$0.00 \$75.06 12/01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$76.51 06/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$79.51 For apprentice rates see "Apprentice- LABORER" AIR TRACK OPERATOR (HEAVY & HIGHWAY) 12/01/2024 \$40.61 \$9.65 \$17.80 \$0.00 \$68.06 LABORERS - ZONE 2 (HEAVY & HIGHWAY) 06/01/2025 \$42.00 \$9.65 \$17.80 \$0.00 \$69.45 12/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$72.27 For apprentice rates see "Apprentice- LABORER (Heavy and Highway) ASBESTOS REMOVER - PIPE / MECH. EQUIPT. 12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$69.35 HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2		06/01/2025	\$42.00	\$9.65	\$17.70	\$0.00	\$69.35
12/01/2026 \$46.26 \$9.65 \$17.70 \$0.00 \$73.61 06/01/2027 \$47.71 \$9.65 \$17.70 \$0.00 \$75.06 12/01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$76.51 06/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$79.51 For apprentice rates see "Apprentice-LABORER" AIR TRACK OPERATOR (HEAVY & HIGHWAY) 12/01/2024 \$40.61 \$9.65 \$17.80 \$0.00 \$68.06 LABORERS - ZONE 2 (HEAVY & HIGHWAY) 06/01/2025 \$42.00 \$9.65 \$17.80 \$0.00 \$69.45 12/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$73.71 For apprentice rates see "Apprentice-LABORER (Heavy and Highway) ASBESTOS REMOVER - PIPE / MECH. EQUIPT. 12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$69.35 HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2026 \$44.82 \$14.50 \$11.05 \$10.00 \$10.00 12/01/2026 \$44.82 \$10.00 \$10.00 12/01/2026 \$44.82 \$10.00 \$10.00 12/01/2026 \$44.82 \$		12/01/2025	\$43.38	\$9.65	\$17.70	\$0.00	\$70.73
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06/01/2027 \$47.71 \$9.65 \$17.70 \$0.00 \$75.06 12/01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$76.51 06/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$79.51 For apprentice rates see "Apprentice-LABORER" 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$79.51 For apprentice rates see "Apprentice-LABORER" 12/01/2024 \$40.61 \$9.65 \$17.80 \$0.00 \$68.06 LABORERS - ZONE 2 (HEAVY & HIGHWAY) 12/01/2025 \$42.00 \$9.65 \$17.80 \$0.00 \$69.45 12/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$72.27 12/01/2026 \$46.26 \$9.65 \$17.80 \$0.00 \$73.71 For apprentice rates see "Apprentice-LABORER (Heavy and Highway) 12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$68.35 HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 12/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 13/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 14.50 \$1		12/01/2026	\$46.26	\$9.65	\$17.70	\$0.00	\$73.61
12/01/2027 \$49.16 \$9.65 \$17.70 \$0.00 \$76.51 06/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$78.01 12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$79.51 For apprentice rates see "Apprentice- LABORER" AIR TRACK OPERATOR (HEAVY & HIGHWAY) 12/01/2024 \$40.61 \$9.65 \$17.80 \$0.00 \$68.06 LABORERS - ZONE 2 (HEAVY & HIGHWAY) 06/01/2025 \$42.00 \$9.65 \$17.80 \$0.00 \$69.45 12/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$72.27 12/01/2026 \$46.26 \$9.65 \$17.80 \$0.00 \$73.71 For apprentice rates see "Apprentice- LABORER (Heavy and Highway) ASBESTOS REMOVER - PIPE / MECH. EQUIPT. 12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$68.35 HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35 10.00 \$69.35 \$10.00 \$69.35 10.00 \$69.35 \$10.00 \$69.35 10.00 \$69.35 \$10.00 \$69.35 10.00 \$69.35 \$10.00 \$69.35 10.00 \$69.35 \$10.00 \$69.35 10.00 \$69.35 \$10.00 \$69.35 10.00 \$69.35 \$10.00 \$69.35 10.00 \$69.3		06/01/2027			\$17.70	\$0.00	
O6/01/2028 \$50.66 \$9.65 \$17.70 \$0.00 \$78.01		12/01/2027	\$49.16	\$9.65	\$17.70	\$0.00	\$76.51
12/01/2028 \$52.16 \$9.65 \$17.70 \$0.00 \$79.51		06/01/2028			\$17.70	\$0.00	
AIR TRACK OPERATOR (HEAVY & HIGHWAY) 12/01/2024 \$40.61 \$9.65 \$17.80 \$0.00 \$68.06 06/01/2025 \$42.00 \$9.65 \$17.80 \$0.00 \$69.45 12/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$72.27 12/01/2026 \$46.26 \$9.65 \$17.80 \$0.00 \$73.71 For apprentice rates see "Apprentice- LABORER (Heavy and Highway) ASBESTOS REMOVER - PIPE / MECH. EQUIPT. HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35		12/01/2028	\$52.16	\$9.65	\$17.70	\$0.00	\$79.51
LABORERS - ZONE 2 (HEAVY & HIGHWAY) 06/01/2025 \$42.00 \$9.65 \$17.80 \$0.00 \$69.45 12/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$72.27 12/01/2026 \$46.26 \$9.65 \$17.80 \$0.00 \$73.71 For apprentice rates see "Apprentice- LABORER (Heavy and Highway) ASBESTOS REMOVER - PIPE / MECH. EQUIPT. HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35	For apprentice rates see "Apprentice- LABORER"						
06/01/2025 \$42.00 \$9.65 \$17.80 \$0.00 \$69.45 \$12/01/2025 \$43.38 \$9.65 \$17.80 \$0.00 \$70.83 \$06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$72.27 \$12/01/2026 \$46.26 \$9.65 \$17.80 \$0.00 \$73.71 \$12/01/2026 \$46.26 \$9.65 \$17.80 \$0.00 \$73.71 \$12/01/2026 \$46.26 \$9.65 \$17.80 \$0.00 \$73.71 \$12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$68.35 \$17.80 \$11.05	AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$40.61	\$9.65	\$17.80	\$0.00	\$68.06
06/01/2026 \$44.82 \$9.65 \$17.80 \$0.00 \$72.27		06/01/2025	\$42.00	\$9.65	\$17.80	\$0.00	\$69.45
12/01/2026 \$46.26 \$9.65 \$17.80 \$0.00 \$73.71 For apprentice rates see "Apprentice- LABORER (Heavy and Highway) ASBESTOS REMOVER - PIPE / MECH. EQUIPT. 12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$68.35 HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35		12/01/2025	\$43.38	\$9.65	\$17.80	\$0.00	\$70.83
For apprentice rates see "Apprentice- LABORER (Heavy and Highway) ASBESTOS REMOVER - PIPE / MECH. EQUIPT. 12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$68.35 HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35		06/01/2026	\$44.82	\$9.65	\$17.80	\$0.00	\$72.27
ASBESTOS REMOVER - PIPE / MECH. EQUIPT. 12/01/2024 \$42.80 \$14.50 \$11.05 \$0.00 \$68.35 HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35		12/01/2026	\$46.26	\$9.65	\$17.80	\$0.00	\$73.71
HEAT & FROST INSULATORS LOCAL 6 (BOSTON) 06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35							
06/01/2025 \$43.80 \$14.50 \$11.05 \$0.00 \$69.35	ASBESTOS REMOVER - PIPE / MECH. EQUIPT. HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	12/01/2024	\$42.80	\$14.50	\$11.05	\$0.00	\$68.35
12/01/2025 \$44.80 \$14.50 \$11.05 \$0.00 \$70.35		06/01/2025	\$43.80	\$14.50	\$11.05	\$0.00	\$69.35
		12/01/2025	\$44.80	\$14.50	\$11.05	\$0.00	\$70.35

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASPHALT RAKER	12/01/2024	\$40.11	\$9.65	\$17.70	\$0.00	\$67.46
LABORERS - ZONE 2	06/01/2025	\$41.50	\$9.65	\$17.70	\$0.00	\$68.85
	12/01/2025	\$42.88	\$9.65	\$17.70	\$0.00	\$70.23
	06/01/2026	\$44.32	\$9.65	\$17.70	\$0.00	\$71.67
	12/01/2026	\$45.76	\$9.65	\$17.70	\$0.00	\$73.11
	06/01/2027	\$47.21	\$9.65	\$17.70	\$0.00	\$74.56
	12/01/2027	\$48.66	\$9.65	\$17.70	\$0.00	\$76.01
	06/01/2028	\$50.16	\$9.65	\$17.70	\$0.00	\$77.51
	12/01/2028	\$51.66	\$9.65	\$17.70	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
LADORERS - ZONE 2 (HEAVI & HIGHWAI)	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE OPERATING ENGINEERS LOCAL 4	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
0. 2.1.1.1.0 2.101.123.10 20 C.12 /	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER OPERATING ENGINEERS LOCAL 4	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
The state of the s	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER LABORERS - ZONE 2	12/01/2024	\$40.11	\$9.65	\$17.70	\$0.00	\$67.46
	06/01/2025	\$41.50	\$9.65	\$17.70	\$0.00	\$68.85
	12/01/2025	\$42.88	\$9.65	\$17.70	\$0.00	\$70.23
	06/01/2026	\$44.32	\$9.65	\$17.70	\$0.00	\$71.67
	12/01/2026	\$45.76	\$9.65	\$17.70	\$0.00	\$73.11
	06/01/2027	\$47.21	\$9.65	\$17.70	\$0.00	\$74.56
	12/01/2027	\$48.66	\$9.65	\$17.70	\$0.00	\$76.01
	06/01/2028	\$50.16	\$9.65	\$17.70	\$0.00	\$77.51
	12/01/2028	\$51.66	\$9.65	\$17.70	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BLOCK PAVER, RAMMER / CURB SETTER	12/01/2024	\$40.61	\$9.65	\$17.70	\$0.00	\$67.96
LABORERS - ZONE 2	06/01/2025	\$42.00	\$9.65	\$17.70	\$0.00	\$69.35
	12/01/2025	\$43.38	\$9.65	\$17.70	\$0.00	\$70.73
	06/01/2026	\$44.82	\$9.65	\$17.70	\$0.00	\$72.17
	12/01/2026	\$46.26	\$9.65	\$17.70	\$0.00	\$73.61
	06/01/2027	\$47.71	\$9.65	\$17.70	\$0.00	\$75.06
	12/01/2027	\$49.16	\$9.65	\$17.70	\$0.00	\$76.51
	06/01/2028	\$50.66	\$9.65	\$17.70	\$0.00	\$78.01
	12/01/2028	\$52.16	\$9.65	\$17.70	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY &	12/01/2024	\$40.61	\$9.65	\$17.80	\$0.00	\$68.06
HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2025	\$42.00	\$9.65	\$17.80	\$0.00	\$69.45
2.00.00.0 20.02 (1.2.0) (2.00.00.00)	12/01/2025	\$43.38	\$9.65	\$17.80	\$0.00	\$70.83
	06/01/2026	\$44.82	\$9.65	\$17.80	\$0.00	\$72.27
	12/01/2026	\$46.26	\$9.65	\$17.80	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
BOILER MAKER BOILERMAKERS LOCAL 29	01/01/2024	\$48.12	\$7.07	\$20.60	\$0.00	\$75.79

	Appre	ntice - BOILERMAK	ER - Local 29						
		ve Date - 01/01/202		d D W	TT 1.1	ъ.	Supplemental	T . 1D	
	Step	percent	Appro	entice Base Wage	Health	Pension	Unemployment	Total Ra	te
	1	65		\$31.28	\$7.07	\$13.22	\$0.00	\$51.5	57
	2	65		\$31.28	\$7.07	\$13.22	\$0.00	\$51.5	57
	3	70		\$33.68	\$7.07	\$14.23	\$0.00	\$54.9	8
	4	75		\$36.09	\$7.07	\$15.24	\$0.00	\$58.4	10
	5	80		\$38.50	\$7.07	\$16.25	\$0.00	\$61.8	32
	6	85		\$40.90	\$7.07	\$17.28	\$0.00	\$65.2	25
	7	90		\$43.31	\$7.07	\$18.28	\$0.00	\$68.6	56
	8	95		\$45.71	\$7.07	\$19.32	\$0.00	\$72.1	0
	Notes:								
	İ								
	Appre	ntice to Journeywork	er Ratio:1:4						
		TICIAL MASONRY (I	NCL. MASONRY	02/01/2025	\$65.80	\$11.49	\$23.59	\$0.00	\$100.88
WATERPROO BRICKLAYERS LO	,	EW REDEORD)		08/01/2025	\$67.95	\$11.49	\$23.59	\$0.00	\$103.03
DITCHESTERS EC	CHES (IVE	W BEET GILD)		02/01/2026	\$69.30	\$11.49	\$23.59	\$0.00	\$104.38
				08/01/2026	\$71.50	\$11.49	\$23.59	\$0.00	\$106.58
				02/01/2027	\$72.90	\$11.49	\$23.59	\$0.00	\$107.98

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	Appren	tice - B	RICK/PLASTER/CEMENT	MASON - Local 3 New Be	edford				
		ve Date -	02/01/2025				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	;
	1	50		\$32.90	\$11.49	\$23.59	\$0.00	\$67.98	:
	2	60		\$39.48	\$11.49	\$23.59	\$0.00	\$74.56	;
	3	70		\$46.06	\$11.49	\$23.59	\$0.00	\$81.14	
	4	80		\$52.64	\$11.49	\$23.59	\$0.00	\$87.72	
	5	90		\$59.22	\$11.49	\$23.59	\$0.00	\$94.30	1
	Effectiv	ve Date -	08/01/2025				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	;
	1	50		\$33.98	\$11.49	\$23.59	\$0.00	\$69.06	
	2	60		\$40.77	\$11.49	\$23.59	\$0.00	\$75.85	
	3	70		\$47.57	\$11.49	\$23.59	\$0.00	\$82.65	į
	4	80		\$54.36	\$11.49	\$23.59	\$0.00	\$89.44	
	5	90		\$61.16	\$11.49	\$23.59	\$0.00	\$96.24	
	Notes:								
								i	
			urneyworker Ratio:1:5						
BULLDOZER/OPERATING ENGIN			ER	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
OI EIGIIIIVO EIVOII	VEERS EO	CIL /		06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
				12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
				06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
For apprentice	rates see "/	Apprentice- (OPERATING ENGINEERS"	12/01/2026	5 \$61.84	\$15.55	\$16.50	\$0.00	\$93.89
CAISSON & UI				12/01/2024	4 \$48.10	9.65	\$18.22	\$0.00	\$75.97
LABORERS - FOUN	NDATION A	AND MARIN	E	06/01/2025			\$18.22	\$0.00	\$77.47
				12/01/2025			\$18.22	\$0.00	\$78.97
				06/01/2026			\$18.22	\$0.00	\$80.52
				12/01/2026			\$18.22	\$0.00	\$82.02
For apprentice	rates see "	Apprentice- I	LABORER"	12/01/2020	φ51.112	ψ,.03	4-0	*****	ψ02.02
CAISSON & UI				12/01/2024	1 \$46.95	\$9.65	\$18.22	\$0.00	\$74.82
LABORERS - FOUN	NDATION A	AND MARIN	E	06/01/2025	5 \$48.45	\$9.65	\$18.22	\$0.00	\$76.32
				12/01/2025	5 \$49.95	\$9.65	\$18.22	\$0.00	\$77.82
				06/01/2026	5 \$51.50	\$9.65	\$18.22	\$0.00	\$79.37
				12/01/2026	5 \$53.00	\$9.65	\$18.22	\$0.00	\$80.87
For apprentice	rates see "	Apprentice- I	LABORER"						
CAISSON & UI				12/01/2024	\$47.28	\$9.65	\$18.22	\$0.00	\$75.15
LABORERS - FOUN	NDALION A	MAKIN	Ŀ	06/01/2025	\$48.78	\$9.65	\$18.22	\$0.00	\$76.65
				12/01/2025	\$50.28	\$9.65	\$18.22	\$0.00	\$78.15
				06/01/2026	5 \$51.83	\$9.65	\$18.22	\$0.00	\$79.70
For our	rotos se - "	A nnnaut: 1	(ADODED"	12/01/2020	\$53.33	\$9.65	\$18.22	\$0.00	\$81.20
For apprentice	rates see "A	Apprentice- I	LABUKEK"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CARBIDE CORE DRILL OPERATOR	12/01/2024	\$40.11	\$9.65	\$17.70	\$0.00	\$67.46
LABORERS - ZONE 2	06/01/2025	\$41.50	\$9.65	\$17.70	\$0.00	\$68.85
	12/01/2025	\$42.88	\$9.65	\$17.70	\$0.00	\$70.23
	06/01/2026	\$44.32	\$9.65	\$17.70	\$0.00	\$71.67
	12/01/2026	\$45.76	\$9.65	\$17.70	\$0.00	\$73.11
	06/01/2027	\$47.21	\$9.65	\$17.70	\$0.00	\$74.56
	12/01/2027	\$48.66	\$9.65	\$17.70	\$0.00	\$76.01
	06/01/2028	\$50.16	\$9.65	\$17.70	\$0.00	\$77.51
	12/01/2028	\$51.66	\$9.65	\$17.70	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
CARPENTER	09/01/2024	\$48.37	\$9.83	\$19.97	\$0.00	\$78.17
CARPENTERS -ZONE 2 (Eastern Massachusetts)	03/01/2025	\$49.62	\$9.83	\$19.97	\$0.00	\$79.42
	09/01/2025	\$50.87	\$9.83	\$19.97	\$0.00	\$80.67
	03/01/2026	\$52.12	\$9.83	\$19.97	\$0.00	\$81.92
	09/01/2026	\$53.37	\$9.83	\$19.97	\$0.00	\$83.17
	03/01/2027	\$54.62	\$9.83	\$19.97	\$0.00	\$84.42

Apprentice - CARPENTER - Zone 2 Eastern MA

Effecti	ive Date -	09/01/2024				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	45		\$21.77	\$9.83	\$1.73	\$0.00	\$33.33
2	45		\$21.77	\$9.83	\$1.73	\$0.00	\$33.33
3	55		\$26.60	\$9.83	\$3.40	\$0.00	\$39.83
4	55		\$26.60	\$9.83	\$3.40	\$0.00	\$39.83
5	70		\$33.86	\$9.83	\$16.51	\$0.00	\$60.20
6	70		\$33.86	\$9.83	\$16.51	\$0.00	\$60.20
7	80		\$38.70	\$9.83	\$18.24	\$0.00	\$66.77
8	80		\$38.70	\$9.83	\$18.24	\$0.00	\$66.77
Effecti	ive Date -	03/01/2025				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	45		\$22.33	\$9.83	\$1.73	\$0.00	\$33.89
2	45		\$22.33	\$9.83	\$1.73	\$0.00	\$33.89
3	55		\$27.29	\$9.83	\$3.40	\$0.00	\$40.52
4	55		\$27.29	\$9.83	\$3.40	\$0.00	\$40.52
5	70		\$34.73	\$9.83	\$16.51	\$0.00	\$61.07
6	70		\$34.73	\$9.83	\$16.51	\$0.00	\$61.07
7	80		\$39.70	\$9.83	\$18.24	\$0.00	\$67.77
8	80		\$39.70	\$9.83	\$18.24	\$0.00	\$67.77
Notes:							

Apprentice to Journeyworker Ratio:1:5

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Aspects of New Wo	ood Frame Work	10/01/2026	\$28.85	\$7.02	\$4.80	\$0.00	\$40.67
Appr	rentice - CARPENTER (Wood Frame) - Zone 3					
	etive Date - 10/01/2024				Supplemental		
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	60	\$15.99	\$7.02	\$0.00	\$0.00	\$23.01	
2	60	\$15.99	\$7.02	\$0.00	\$0.00	\$23.01	
3	65	\$17.32	\$7.02	\$1.00	\$0.00	\$25.34	
4	70	\$18.66	\$7.02	\$1.00	\$0.00	\$26.68	
5	75	\$19.99	\$7.02	\$4.80	\$0.00	\$31.81	
6	80	\$21.32	\$7.02	\$4.80	\$0.00	\$33.14	
7	85	\$22.65	\$7.02	\$4.80	\$0.00	\$34.47	
8	90	\$23.99	\$7.02	\$4.80	\$0.00	\$35.81	
Effec	etive Date - 10/01/2025				Supplemental		
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	60	\$16.65	\$7.02	\$0.00	\$0.00	\$23.67	
2	60	\$16.65	\$7.02	\$0.00	\$0.00	\$23.67	
3	65	\$18.04	\$7.02	\$1.00	\$0.00	\$26.06	
4	70	\$19.43	\$7.02	\$1.00	\$0.00	\$27.45	
5	75	\$20.81	\$7.02	\$4.80	\$0.00	\$32.63	
6	80	\$22.20	\$7.02	\$4.80	\$0.00	\$34.02	
7	85	\$23.59	\$7.02	\$4.80	\$0.00	\$35.41	
8	90	\$24.98	\$7.02	\$4.80	\$0.00	\$36.80	
Note	s:						

07/01/2024

\$49.19

Effective Date

10/01/2024

Base Wage

\$26.65

Health

\$7.02

Classification

CARPENTER WOOD FRAME

CARPENTERS-ZONE 3 (Wood Frame)

CEMENT MASONRY/PLASTERING

BRICKLAYERS LOCAL 3 (NEW BEDFORD)

Supplemental

\$0.00

Unemployment

Pension

\$4.80

\$24.21

\$1.80

\$88.55

\$13.35

Total Rate

\$38.47

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Total Rate

Pension

	Effect	ive Date - 07/01/2024				Supplemen	tal	
	Step	percent	Apprentice Base Wage	Health	Pensio			e
	1	50	\$24.60	\$13.35	\$16.4	3 \$0.0	00 \$54.33	3
	2	60	\$29.51	\$13.35	\$19.2	1 \$1.8	\$63.8	7
	3	65	\$31.97	\$13.35	\$20.2	1 \$1.8	\$67.33	3
	4	70	\$34.43	\$13.35	\$21.2	1 \$1.8	80 \$70.79)
	5	75	\$36.89	\$13.35	\$22.2	1 \$1.8	80 \$74.2	5
	6	80	\$39.35	\$13.35	\$23.2	1 \$1.8	\$77.7	1
	7	90	\$44.27	\$13.35	\$24.2	1 \$1.8	80 \$83.63	3
	Notes:							
		Steps 3,4 are 500 hrs. Al	other steps are 1,000 hrs.				İ	
	Appre	entice to Journeyworker F	atio:1:3					
CHAIN SAW O		OR	12/01/202	4 \$40	0.11 \$9	.65 \$17.70	\$0.00	\$67.46
IDORERS - ZONE	2		06/01/202	5 \$4	1.50 \$9.	.65 \$17.70	\$0.00	\$68.85
			12/01/202	5 \$42	2.88 \$9.	.65 \$17.70	\$0.00	\$70.23
			06/01/202	6 \$4	4.32 \$9.	.65 \$17.70	\$0.00	\$71.67
			12/01/202	6 \$4:	5.76 \$9.	.65 \$17.70	\$0.00	\$73.11
			06/01/202	7 \$4	7.21 \$9.	.65 \$17.70	\$0.00	\$74.56
			12/01/202	7 \$4	8.66 \$9.	.65 \$17.70	\$0.00	\$76.01
			06/01/202	8 \$50	0.16 \$9.	.65 \$17.70	\$0.00	\$77.51
_			12/01/202	8 \$5	1.66 \$9.	.65 \$17.70	\$0.00	\$79.01
		"Apprentice- LABORER"	ANA CHINIEC					
LAM SHELLS PERATING ENGIN		RRY BUCKETS/HEADIN OCAL 4	12/01/202			5.55 \$16.50	\$0.00	\$90.23
			06/01/202		9.51 \$1:	5.55 \$16.50	\$0.00	\$91.56
			12/01/202	5 \$60	0.98 \$1:	5.55 \$16.50	\$0.00	\$93.03
			06/01/202	6 \$62	2.31 \$1:	5.55 \$16.50	\$0.00	\$94.36
E		WARRING ENGL	12/01/202	6 \$6.	3.79 \$1:	5.55 \$16.50	\$0.00	\$95.84
OMPRESSOR		"Apprentice- OPERATING ENGI		4		5.55 D1.650	ФО ОС	A 60 = 5
PERATING ENGIN			12/01/202			5.55 \$16.50	\$0.00	\$68.72
			06/01/202			5.55 \$16.50 5.55 \$16.50	\$0.00	\$69.57
			12/01/202			5.55 \$16.50	\$0.00	\$70.52
			06/01/202			5.55 \$16.50	\$0.00	\$71.38
For apprentice 1	rates see	"Apprentice- OPERATING ENGI	12/01/202 NEERS"	6 \$40	0.28 \$1:	5.55 \$16.50	\$0.00	\$72.33
- *				5 \$5		.95 \$23.95	\$0.00	

Apprentice - CEMENT MASONRY/PLASTERING - Eastern Mass (New Bedford)

Total Rate

	Step	ive Date - 01/01/2025 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18	
	2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76	
	3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29	
	4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82	
	5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19	
	6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73	
	7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25	
	8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30	
	Notes:							
		Steps are 750 hrs.					İ	
		entice to Journeyworker Ratio:1:1						
EMO: ADZE Borers - zon			12/02/2024			\$18.40	\$0.00	\$75.05
			06/02/2025	\$48.50	\$9.65	\$18.40	\$0.00	\$76.55
			12/01/2025			\$18.40	\$0.00	\$78.05
			06/01/2026	\$51.55	\$9.65	\$18.40	\$0.00	\$79.60
			12/07/2026			\$18.40	\$0.00	\$81.10
			06/07/2027		\$9.65	\$18.40	\$0.00	\$82.70
			12/06/2027			\$18.40	\$0.00	\$84.30
			06/05/2028			\$18.40	\$0.00	\$85.98
For apprentice	rates see '	"Apprentice- LABORER"	12/04/2028	\$59.60	\$9.65	\$18.40	\$0.00	\$87.65
		OADER/HAMMER OPERATOR	12/02/2024	\$48.00	9.65	\$18.40	\$0.00	\$76.05
BORERS - ZON			06/02/2025			\$18.40	\$0.00	\$70.03
			12/01/2025			\$18.40	\$0.00	\$79.05
			06/01/2026			\$18.40	\$0.00	\$80.60
			12/07/2026			\$18.40	\$0.00	\$82.10
			06/07/2020			\$18.40	\$0.00	\$83.70
			12/06/2027			\$18.40	\$0.00	\$85.30
			06/05/2028			\$18.40	\$0.00	\$86.98
			12/04/2028			\$18.40	\$0.00	\$88.65
For apprentice	e rates see '	"Apprentice- LABORER"	12/04/2020	, 400.00	, ψλ.υσ	ψ10.10	~···	ψου.υυ
EMO: BURN			12/02/2024	\$47.75	\$9.65	\$18.40	\$0.00	\$75.80
BORERS - ZON	E 2		06/02/2025	\$49.25	\$9.65	\$18.40	\$0.00	\$77.30
			12/01/2025	\$50.75	\$9.65	\$18.40	\$0.00	\$78.80
			06/01/2026	\$52.30	\$9.65	\$18.40	\$0.00	\$80.35
			12/07/2026			\$18.40	\$0.00	\$81.85
			06/07/2027			\$18.40	\$0.00	\$83.45
			12/06/2027			\$18.40	\$0.00	\$85.05
			06/05/2028			\$18.40	\$0.00	\$86.73
			12/04/2028			\$18.40	\$0.00	\$88.40

Classification For apprentice rates see "Apprentice- LABORER"	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: CONCRETE CUTTER/SAWYER	12/02/2024	\$48.00	\$9.65	\$18.40	\$0.00	\$76.05
LABORERS - ZONE 2	06/02/2025	\$49.50	\$9.65	\$18.40	\$0.00	\$77.55
	12/01/2025	\$51.00	\$9.65	\$18.40	\$0.00	\$79.05
	06/01/2026	\$52.55	\$9.65	\$18.40	\$0.00	\$80.60
	12/07/2026	\$54.05	\$9.65	\$18.40	\$0.00	\$82.10
	06/07/2027	\$55.65	\$9.65	\$18.40	\$0.00	\$83.70
	12/06/2027	\$57.25	\$9.65	\$18.40	\$0.00	\$85.30
	06/05/2028	\$58.93	\$9.65	\$18.40	\$0.00	\$86.98
	12/04/2028	\$60.60	\$9.65	\$18.40	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER" DEMO: JACKHAMMER OPERATOR	10/00/004	0.45.55	00.65	Ø10.40	ΦΩ ΩΩ	Φ 7 5.00
LABORERS - ZONE 2	12/02/2024	\$47.75	\$9.65	\$18.40	\$0.00	\$75.80
	06/02/2025	\$49.25	\$9.65	\$18.40	\$0.00	\$77.30
	12/01/2025	\$50.75	\$9.65	\$18.40 \$18.40	\$0.00	\$78.80
	06/01/2026 12/07/2026	\$52.30	\$9.65	\$18.40	\$0.00 \$0.00	\$80.35
		\$53.80 \$55.40	\$9.65	\$18.40	\$0.00	\$81.85 \$83.45
	06/07/2027 12/06/2027	\$55.40 \$57.00	\$9.65 \$9.65	\$18.40	\$0.00	\$85.05
	06/05/2028	\$57.00 \$58.68	\$9.65	\$18.40	\$0.00	\$85.03
	12/04/2028	\$60.35	\$9.65	\$18.40	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"	12/04/2020	\$00.55	\$9.03	\$10.40	ψ0.00	300.40
DEMO: WRECKING LABORER	12/02/2024	\$47.00	\$9.65	\$18.40	\$0.00	\$75.05
LABORERS - ZONE 2	06/02/2025	\$48.50	\$9.65	\$18.40	\$0.00	\$76.55
	12/01/2025	\$50.00	\$9.65	\$18.40	\$0.00	\$78.05
	06/01/2026	\$51.55	\$9.65	\$18.40	\$0.00	\$79.60
	12/07/2026	\$53.05	\$9.65	\$18.40	\$0.00	\$81.10
	06/07/2027	\$54.65	\$9.65	\$18.40	\$0.00	\$82.70
	12/06/2027	\$56.25	\$9.65	\$18.40	\$0.00	\$84.30
	06/05/2028	\$57.93	\$9.65	\$18.40	\$0.00	\$85.98
For apprentice rates see "Apprentice- LABORER"	12/04/2028	\$59.60	\$9.65	\$18.40	\$0.00	\$87.65
DIRECTIONAL DRILL MACHINE OPERATOR	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
OPERATING ENGINEERS LOCAL 4	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
DIVER PILE DRIVER LOCAL 56 (ZONE 2)	08/01/2024	\$78.11	\$10.08	\$24.29	\$0.00	\$112.48
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A \$69.83, 3A \$91.79,4A \$102.14 Total Rate						
DIVER TENDER PILE DRIVER LOCAL 56 (ZONE 2)	08/01/2024	\$51.97	\$10.08	\$24.29	\$0.00	\$86.34
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A \$54.20, 3A \$73.93,4A \$82.05 Total Rate						
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 (ZONE 2)	08/01/2024	\$83.69	\$10.08	\$24.29	\$0.00	\$118.06
For apprentice rates see "Apprentice- PILE DRIVER"						

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Classification			Effective Da	te Base Wage	e Health	Pension	Supplemental Unemployment	Total Rate
DIVER/SLURR			08/01/2024	\$117.16	\$10.08	\$24.29	\$0.00	\$151.53
For apprentice:		Apprentice- PILE DRIVER"						
		ATOR (Construction)	07/01/2020	\$26.77	\$6.67	\$3.93	\$0.16	\$37.53
DRAWBRIDGE - SE		· · · · · · · · · · · · · · · · · · ·	07/01/2020	\$20.77	ψ0.07	ψ3.75	ψ0.10	ψ37.33
ELECTRICIAN			09/01/2024	\$50.02	\$12.00	\$17.72	\$0.00	\$79.74
ELECTRICIANS LO	CAL 223		09/01/2023	\$52.25	\$12.25	\$18.61	\$0.00	\$83.11
			09/01/2020	5 \$54.72	\$12.50	\$19.56	\$0.00	\$86.78
	Apprer	ntice - ELECTRICIAN - Local 223						
	Effecti	ve Date - 09/01/2024				Supplementa	1	
	Step	percent	Apprentice Base Wage	Health	Pension	Unemploymen	t Total Rate	
	1	40	\$20.01	\$12.00	\$0.60	\$0.00	\$32.61	
	2	45	\$22.51	\$12.00	\$0.68	\$0.00	\$35.19	
	3	50	\$25.01	\$12.00	\$0.75	\$0.00	\$37.76	
	4	55	\$27.51	\$12.00	\$8.59	\$0.00	\$48.10	
	5	60	\$30.01	\$12.00	\$9.15	\$0.00	\$51.16	
	6	65	\$32.51	\$12.00	\$9.74	\$0.00	\$54.25	
	7	70	\$35.01	\$12.00	\$10.30	\$0.00	\$57.31	
	8	75	\$37.52	\$12.00	\$10.89	\$0.00	\$60.41	
		ve Date - 09/01/2025				Supplementa		
	Step	percent	Apprentice Base Wage		Pension	Unemploymen		
	1	40	\$20.90	\$12.25	\$0.63	\$0.00		
	2	45	\$23.51	\$12.25	\$0.71	\$0.00		
	3	50	\$26.13	\$12.25	\$0.78	\$0.00		
	4	55	\$28.74	\$12.25	\$9.11	\$0.00		
	5	60	\$31.35	\$12.25	\$9.71	\$0.00		
	6	65	\$33.96	\$12.25	\$10.32	\$0.00		
	7	70	\$36.58	\$12.25	\$10.91	\$0.00		
	8	75	\$39.19	\$12.25	\$11.52	\$0.00	\$62.96	
	Notes:							
	<u> </u>	ntice to Journeyworker Ratio:2:3***						

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01/01/2022

\$65.62

\$20.21

\$16.03

\$0.00

\$101.86

ELEVATOR CONSTRUCTOR

ELEVATOR CONSTRUCTORS LOCAL 4

Apprentice - ELEVATOR CONSTRUCTOR - Local 4

Pension

	Effect	ive Date - 01/01/202			II 1d	n '	Supplemental	m . 1 .	
	Step	percent	Apprer	ntice Base Wage		Pension	Unemployment	Total I	
	1	50		\$32.81	\$16.03	\$0.00	\$0.00	\$48	3.84
	2	55		\$36.09	\$16.03	\$20.21	\$0.00	\$72	2.33
	3	65		\$42.65	\$16.03	\$20.21	\$0.00	\$78	3.89
	4	70		\$45.93	\$16.03	\$20.21	\$0.00	\$82	2.17
	5	80		\$52.50	\$16.03	\$20.21	\$0.00	\$88	3.74
	Notes		Steps 3-5 are 1 year						
	Appre	entice to Journeywork	er Ratio:1:1						_
LEVATOR C LEVATOR CONS		UCTOR HELPER RS LOCAL 4		01/01/202	2 \$45.93	\$16.03	\$20.21	\$0.00	\$82.17
		"Apprentice - ELEVATOR C							
		AIL ERECTOR (HEAV 'Y & HIGHWAY)	Y & HIGHWAY)	12/01/202	4 \$40.11	\$9.65	\$17.80	\$0.00	\$67.56
EUNERS - ZUN	L 2 (IIEA)	i & inonnai)		06/01/202	5 \$41.50	\$9.65	\$17.80	\$0.00	\$68.95
				12/01/202	5 \$42.88	\$9.65	\$17.80	\$0.00	\$70.33
				06/01/202	6 \$44.32	\$9.65	\$17.80	\$0.00	\$71.77
				12/01/202	6 \$45.70	\$9.65	\$17.80	\$0.00	\$73.21
		"Apprentice- LABORER (H							
ELD ENG.II Perating eng		RSON-BLDG,SITE,HV ocal 4	/Y/HWY	11/01/202	4 \$51.78	\$15.30	\$16.40	\$0.00	\$83.48
				05/01/202	5 \$53.22	\$15.30	\$16.40	\$0.00	\$84.92
				11/01/202	5 \$54.5	\$15.30	\$16.40	\$0.00	\$86.21
				05/01/202	6 \$55.95	\$15.30	\$16.40	\$0.00	\$87.65
				11/01/202	6 \$57.24	\$15.30	\$16.40	\$0.00	\$88.94
T		. OPERATRICA	NON IFER OF	05/01/202	7 \$58.67	7 \$15.30	\$16.40	\$0.00	\$90.37
		"Apprentice- OPERATING I					01610	** **	
PERATING ENG		HIEF-BLDG,SITE,H\ OCAL 4	Y Y/HW Y	11/01/202			\$16.40	\$0.00	\$85.07
				05/01/202	*		\$16.40	\$0.00	\$86.52
				11/01/202		2 \$15.30	\$16.40	\$0.00	\$87.82
				05/01/202	6 \$57.57	7 \$15.30	\$16.40	\$0.00	\$89.27
				11/01/202	6 \$58.87	7 \$15.30	\$16.40	\$0.00	\$90.57
For apprentic	e rates see	"Apprentice- OPERATING I	ENGINEERS"	05/01/202	7 \$60.32	2 \$15.30	\$16.40	\$0.00	\$92.02
		RSON-BLDG,SITE,HV		11/01/202	4 \$25.37	7 \$15.30	\$16.40	\$0.00	\$57.07
PERATING ENG		, ,		05/01/202			\$16.40	\$0.00	\$57.07 \$57.92
				11/01/202			\$16.40	\$0.00	\$57.92 \$58.68
				05/01/202			\$16.40	\$0.00	\$59.53
							\$16.40 \$16.40	\$0.00	\$59.53 \$60.29
				11/01/202			\$16.40	\$0.00	\$60.29 \$61.14
For apprentic	e rates see	"Apprentice- OPERATING I	ENGINEERS"	05/01/202	7 \$29.44	\$15.30	ψ1 0.1 0	φυ.υυ	Ф 01.14
RE ALARM	INSTAI	LLER		09/01/202	4 \$50.02	2 \$12.00	\$17.72	\$0.00	\$79.74
ECTRICIANS L	OCAL 223			09/01/202			\$18.61	\$0.00	\$83.11
				09/01/202			\$19.56	\$0.00	\$86.78
				05,01,202					

Classification For apprentice rates see "Apprentice- ELECTRICIAN"	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM REPAIR / MAINTENANCE	09/01/2024	\$42.52	\$12.00	\$15.30	\$0.00	\$69.82
/ COMMISSIONING ELECTRICIANS LOCAL 223	09/01/2025	\$44.41	\$12.25	\$16.09	\$0.00	\$72.75
LOCAL 225	09/01/2026	\$46.51	\$12.50	\$16.93	\$0.00	\$75.94
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER)	12/01/2024	\$45.96	\$15.55	\$16.50	\$0.00	\$78.01
OPERATING ENGINEERS LOCAL 4	06/01/2025	\$47.02	\$15.55	\$16.50	\$0.00	\$79.07
	12/01/2025	\$48.19	\$15.55	\$16.50	\$0.00	\$80.24
	06/01/2026	\$49.25	\$15.55	\$16.50	\$0.00	\$81.30
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2026	\$50.43	\$15.55	\$16.50	\$0.00	\$82.48
FLAGGER & SIGNALER (HEAVY & HIGHWAY)	12/01/2024	\$27.01	\$9.65	\$17.80	\$0.00	\$54.46
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2025	\$28.09	\$9.65	\$17.80	\$0.00	\$55.54
	12/01/2025	\$28.09	\$9.65	\$17.80	\$0.00	\$55.54
	06/01/2026	\$29.21	\$9.65	\$17.80	\$0.00	\$56.66
	12/01/2026	\$29.21	\$9.65	\$17.80	\$0.00	\$56.66
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
FLOORCOVERER FLOORCOVERERS LOCAL 2168 ZONE II	03/01/2024	\$49.47	\$8.83	\$20.27	\$0.00	\$78.57

Apprentice - FLOORCOVERER - Local 2168 Zone II

Effect	tive Date - 03/01/2024				Supplemental		
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	:
1	50	\$24.74	\$8.83	\$1.76	\$0.00	\$35.33	
2	55	\$27.21	\$8.83	\$1.76	\$0.00	\$37.80	1
3	60	\$29.68	\$8.83	\$3.52	\$0.00	\$42.03	
4	65	\$32.16	\$8.83	\$3.52	\$0.00	\$44.51	
5	70	\$34.63	\$8.83	\$16.75	\$0.00	\$60.21	
6	75	\$37.10	\$8.83	\$16.75	\$0.00	\$62.68	
7	80	\$39.58	\$8.83	\$18.51	\$0.00	\$66.92	
8	85	\$42.05	\$8.83	\$18.51	\$0.00	\$69.39	1
Notes	,	5/55/70/70/80/80 (1500hr Steps) 9.28/ 5&6 \$59.86/ 7&8 \$66.52					
Appr	entice to Journeyworker Ra	ntio:1:1					
ORK LIFT/CHERRY		12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
ERATING ENGINEERS I	LOCAL 4	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
			\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
		06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
		00/01/2020					

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Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
12/01/2024	\$36.67	\$15.55	\$16.50	\$0.00	\$68.72
06/01/2025	\$37.52	\$15.55	\$16.50	\$0.00	\$69.57
12/01/2025	\$38.47	\$15.55	\$16.50	\$0.00	\$70.52
06/01/2026	\$39.33	\$15.55	\$16.50	\$0.00	\$71.38
12/01/2026	\$40.28	\$15.55	\$16.50	\$0.00	\$72.33
06/01/2020	\$39.18	\$10.80	\$10.45	\$0.00	\$60.43
	12/01/2024 06/01/2025 12/01/2025 06/01/2026 12/01/2026	12/01/2024 \$36.67 06/01/2025 \$37.52 12/01/2025 \$38.47 06/01/2026 \$39.33 12/01/2026 \$40.28	12/01/2024 \$36.67 \$15.55 06/01/2025 \$37.52 \$15.55 12/01/2025 \$38.47 \$15.55 06/01/2026 \$39.33 \$15.55 12/01/2026 \$40.28 \$15.55	12/01/2024 \$36.67 \$15.55 \$16.50 06/01/2025 \$37.52 \$15.55 \$16.50 12/01/2025 \$38.47 \$15.55 \$16.50 06/01/2026 \$39.33 \$15.55 \$16.50 12/01/2026 \$40.28 \$15.55 \$16.50	Effective Date Base Wage Health Pension Unemployment 12/01/2024 \$36.67 \$15.55 \$16.50 \$0.00 06/01/2025 \$37.52 \$15.55 \$16.50 \$0.00 12/01/2025 \$38.47 \$15.55 \$16.50 \$0.00 06/01/2026 \$39.33 \$15.55 \$16.50 \$0.00 12/01/2026 \$40.28 \$15.55 \$16.50 \$0.00

	Step	ive Date - 06/01/2020 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total	Rate
	1	50	\$19.59	\$10.80	\$1.80	\$0.00	\$3	32.19
	2	56	\$22.04	\$10.80	\$1.80	\$0.00	\$3	34.64
	3	63	\$24.49	\$10.80	\$2.45	\$0.00	\$3	37.74
	4	69	\$26.94	\$10.80	\$2.45	\$0.00	\$4	40.19
	5	75	\$29.39	\$10.80	\$3.15	\$0.00	\$4	43.34
	6	81	\$31.83	\$10.80	\$3.15	\$0.00	\$4	45.78
	7	88	\$34.28	\$10.80	\$10.45	\$0.00	\$3	55.53
	8	94	\$36.73	\$10.80	\$10.45	\$0.00	\$3	57.98
_ [1	— — Notes:							
								i
	Appre	ntice to Journeyworker Ratio:1:3						_
		R/CRANES/GRADALLS	12/01/2024	4 \$57.0	3 \$15.55	\$16.50	\$0.00	\$89.08
RATING ENGIN	EERS LO	OCAL 4	06/01/2023	\$58.3	3 \$15.55	\$16.50	\$0.00	\$90.38
			12/01/202:	\$59.7	8 \$15.55	\$16.50	\$0.00	\$91.83
			06/01/2020	\$61.0	8 \$15.55	\$16.50	\$0.00	\$93.13
			12/01/2020	\$62.5	3 \$15.55	\$16.50	\$0.00	\$94.58

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Total Rate

	Step	ve Date - 12/01/2024 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	;
	1	55	\$31.37	\$0.00	\$0.00	\$0.00	\$31.37	
	2	60	\$34.22	\$15.55	\$16.50	\$0.00	\$66.27	
	3	65	\$37.07	\$15.55	\$16.50	\$0.00	\$69.12	
	4	70	\$39.92	\$15.55	\$16.50	\$0.00	\$71.97	
	5	75	\$42.77	\$15.55	\$16.50	\$0.00	\$74.82	
	6	80	\$45.62	\$15.55	\$16.50	\$0.00	\$77.67	
	7	85	\$48.48	\$15.55	\$16.50	\$0.00	\$80.53	
	8	90	\$51.33	\$15.55	\$16.50	\$0.00	\$83.38	
	Effecti	ve Date - 06/01/2025				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	:
	1	55	\$32.08	\$0.00	\$0.00	\$0.00	\$32.08	
	2	60	\$35.00	\$15.55	\$16.50	\$0.00	\$67.05	
	3	65	\$37.91	\$15.55	\$16.50	\$0.00	\$69.96	
	4	70	\$40.83	\$15.55	\$16.50	\$0.00	\$72.88	
	5	75	\$43.75	\$15.55	\$16.50	\$0.00	\$75.80	,
	6	80	\$46.66	\$15.55	\$16.50	\$0.00	\$78.71	
	7	85	\$49.58	\$15.55	\$16.50	\$0.00	\$81.63	
	8	90	\$52.50	\$15.55	\$16.50	\$0.00	\$84.55	
	Notes:							
	Appre	ntice to Journeyworker Ratio:1:6						
AC (DUCTV	VORK)		10/01/2024	4 \$42.33	\$14.59	\$19.04	\$2.24	\$78.20
ETMETAL WO		OCAL 17 - B	04/01/2023			\$19.04	\$2.24	\$79.70
			10/01/2023			\$19.04	\$2.24	\$80.95
			04/01/2020			\$19.04	\$2.24	\$82.4
For apprentice	rates see "	Apprentice- SHEET METAL WORKER"						
AC (ELECT CTRICIANS LO		CONTROLS)	09/01/2024	4 \$50.02	\$12.00	\$17.72	\$0.00	\$79.74
THICIANS LC	C111 223		09/01/2023	5 \$52.25	\$12.25	\$18.61	\$0.00	\$83.11
For apprentice	rates see "	Apprentice- ELECTRICIAN"	09/01/2020	6 \$54.72	\$12.50	\$19.56	\$0.00	\$86.78
		BALANCING - AIR)	10/01/2024	4 \$42.33	\$30.43	\$19.04	\$2.24	\$94.04
ETMETAL WO		· · · · · · · · · · · · · · · · · · ·	04/01/2025			\$19.04	\$2.24	\$95.54
			10/01/2025			\$19.04	\$2.24	\$96.79
			04/01/2020			\$19.04	\$2.24	\$98.29
For apprentice	rates see "	Apprentice- SHEET METAL WORKER"	04/01/2020	υ φ τ υ.36	φ50.43	Ψ12.0Τ	ψ ω.ω Τ	ψ / Ο . Δ :
		BALANCING -WATER)	08/26/2024	4 \$54.74	\$10.15	\$19.95	\$0.00	\$84.8
MBERS & PIP	EFITTERS	LOCAL 51	08/25/202:	5 \$57.49	\$10.15	\$19.95	\$0.00	\$87.59

Classification	Effective Dat	e Base Wage	e Health	Pension	Supplemental Unemployment	Total Ra
HVAC MECHANIC	08/26/2024	\$54.74	\$10.15	\$19.95	\$0.00	\$84.84
PLUMBERS & PIPEFITTERS LOCAL 51	08/25/2025	\$57.49	\$10.15	\$19.95	\$0.00	\$87.59
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPI	EFITTER"					
HYDRAULIC DRILLS	12/01/2024	\$40.61	\$9.65	\$17.70	\$0.00	\$67.96
LABORERS - ZONE 2	06/01/2025	\$42.00	\$9.65	\$17.70	\$0.00	\$69.35
	12/01/2025	\$43.38	\$9.65	\$17.70	\$0.00	\$70.73
	06/01/2026	\$44.82	\$9.65	\$17.70	\$0.00	\$72.17
	12/01/2026	\$46.26	\$9.65	\$17.70	\$0.00	\$73.61
	06/01/2027	\$47.71	\$9.65	\$17.70	\$0.00	\$75.06
	12/01/2027	\$49.16	\$9.65	\$17.70	\$0.00	\$76.51
	06/01/2028	\$50.66	\$9.65	\$17.70	\$0.00	\$78.01
	12/01/2028	\$52.16	\$9.65	\$17.70	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$40.61	\$9.65	\$17.80	\$0.00	\$68.06
ABOKEKS - ZONE 2 (HEAV I & HIGHWAI)	06/01/2025	\$42.00	\$9.65	\$17.80	\$0.00	\$69.45
	12/01/2025	\$43.38	\$9.65	\$17.80	\$0.00	\$70.83
	06/01/2026	\$44.82	\$9.65	\$17.80	\$0.00	\$72.27
	12/01/2026	\$46.26	\$9.65	\$17.80	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	09/01/2024		\$14.75	\$19.61	\$0.00	\$91.28
	09/01/2025	\$60.34	\$14.75	\$19.61	\$0.00	\$94.70
	09/01/2026	\$63.76	\$14.75	\$19.61	\$0.00	\$98.12
Apprentice - ASBESTOS INSULATOR (Pip	oes & Tanks) - Local 6 Bos	ton				
Effective Date - 09/01/2024 Step percent	Apprentice Base Wage	Health	Pension	Supplementa Unemploymen		e
1 50	\$28.46	\$14.75	\$14.32	\$0.00	\$57.53	3
2 60		\$14.75	\$15.37	\$0.00	\$64.2	7
3 70	\$39.84	\$14.75	\$16.43	\$0.00	\$71.02	2
4 80		\$14.75	\$17.49	\$0.00		

Step percent Apprentice Base Wage Health Pension Unemployment Total Rate	Liiccii	ve Bate opromises.				Supplemental		
2 60 \$34.15 \$14.75 \$15.37 \$0.00 \$64.27 3 70 \$39.84 \$14.75 \$16.43 \$0.00 \$71.02 4 80 \$45.54 \$14.75 \$17.49 \$0.00 \$77.78 Effective Date - 09/01/2025 Step percent Apprentice Base Wage Health Pension Unemployment Total Rate 1 50 \$30.17 \$14.75 \$14.32 \$0.00 \$59.24 2 60 \$36.20 \$14.75 \$15.37 \$0.00 \$66.32 3 70 \$42.24 \$14.75 \$16.43 \$0.00 \$73.42 4 80 \$48.27 \$14.75 \$17.49 \$0.00 \$80.51 Notes: Steps are 1 year Steps are 1	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
Step Percent Apprentice Base Wage Health Pension Unemployment Total Rate	1	50	\$28.46	\$14.75	\$14.32	\$0.00	\$57.53	
## 80	2	60	\$34.15	\$14.75	\$15.37	\$0.00	\$64.27	
Effective Date - 09/01/2025 Supplemental Pension Supplemental Unemployment Total Rate	3	70	\$39.84	\$14.75	\$16.43	\$0.00	\$71.02	
Step percent Apprentice Base Wage Health Pension Unemployment Total Rate 1 50 \$30.17 \$14.75 \$14.32 \$0.00 \$59.24 2 60 \$36.20 \$14.75 \$15.37 \$0.00 \$66.32 3 70 \$42.24 \$14.75 \$16.43 \$0.00 \$73.42 4 80 \$48.27 \$14.75 \$17.49 \$0.00 \$80.51 Notes: Steps are 1 year Apprentice to Journeyworker Ratio:1:4	4	80	\$45.54	\$14.75	\$17.49	\$0.00	\$77.78	
Step percent Apprentice Base Wage Health Pension Unemployment Total Rate 1 50 \$30.17 \$14.75 \$14.32 \$0.00 \$59.24 2 60 \$36.20 \$14.75 \$15.37 \$0.00 \$66.32 3 70 \$42.24 \$14.75 \$16.43 \$0.00 \$73.42 4 80 \$48.27 \$14.75 \$17.49 \$0.00 \$80.51 Notes: Steps are 1 year Apprentice to Journeyworker Ratio:1:4	Effecti	ve Date - 09/01/2025				Supplemental		
2 60 \$36.20 \$14.75 \$15.37 \$0.00 \$66.32 3 70 \$42.24 \$14.75 \$16.43 \$0.00 \$73.42 4 80 \$48.27 \$14.75 \$17.49 \$0.00 \$80.51 Notes: Steps are 1 year Steps are 1 year	Step	percent	Apprentice Base Wage	Health	Pension	* *	Total Rate	
3 70 \$42.24 \$14.75 \$16.43 \$0.00 \$73.42 4 80 \$48.27 \$14.75 \$17.49 \$0.00 \$80.51 Notes: Steps are 1 year	1	50	\$30.17	\$14.75	\$14.32	\$0.00	\$59.24	
4 80 \$48.27 \$14.75 \$17.49 \$0.00 \$80.51 Notes: Steps are 1 year Apprentice to Journeyworker Ratio:1:4	2	60	\$36.20	\$14.75	\$15.37	\$0.00	\$66.32	
Notes: Steps are 1 year Apprentice to Journeyworker Ratio:1:4	3	70	\$42.24	\$14.75	\$16.43	\$0.00	\$73.42	
Steps are 1 year Apprentice to Journeyworker Ratio:1:4	4	80	\$48.27	\$14.75	\$17.49	\$0.00	\$80.51	
Apprentice to Journeyworker Ratio:1:4	Notes:							
AND AND WELL DED	İ	Steps are 1 year						
NWORKER/WELDER 03/16/2021 \$42.46 \$7.70 \$17.10 \$0.00	Appre	ntice to Journeyworker Ratio:1:4					- — — —	
NWORKERS LOCAL 37		DER	03/16/202	1 \$42.	.46 \$7.70	\$17.10	\$0.00 \$67	7.26

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	Step	ive Date - 03/16/2021 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Ra	ate
	1	70	\$29.72	\$7.70	\$17.10	\$0.00	\$54.	52
	2	75	\$31.85	\$7.70	\$17.10	\$0.00	\$56.	65
	3	80	\$33.97	\$7.70	\$17.10	\$0.00	\$58.	77
	4	85	\$36.09	\$7.70	\$17.10	\$0.00	\$60.	89
	5	90	\$38.21	\$7.70	\$17.10	\$0.00	\$63.	01
	6	95	\$40.34	\$7.70	\$17.10	\$0.00	\$65.	14
	Notes							-
		entice to Journeyworker Ra						
CKHAMI BORERS - ZO		VING BREAKER OPERAT	OR 12/01/2024	\$40.11	\$9.65	\$17.70	\$0.00	\$67.46
ONENS - ZO	ONE 2		06/01/2025	\$41.50	\$9.65	\$17.70	\$0.00	\$68.85
			12/01/2025	\$42.88	\$9.65	\$17.70	\$0.00	\$70.23
			06/01/2026	\$44.32	\$9.65	\$17.70	\$0.00	\$71.67
			12/01/2026	\$45.76	\$9.65	\$17.70	\$0.00	\$73.11
			06/01/2027	\$47.21	\$9.65	\$17.70	\$0.00	\$74.56
			12/01/2027	\$48.66	\$9.65	\$17.70	\$0.00	\$76.01
			06/01/2028	\$50.16	\$9.65	\$17.70	\$0.00	\$77.51
			12/01/2028	\$51.66	\$9.65	\$17.70	\$0.00	\$79.01
	tice rates see	"Apprentice- LABORER"						
BORER ORERS - ZO	ONE 2		12/01/2024			\$17.70	\$0.00	\$67.21
			06/01/2025			\$17.70	\$0.00	\$68.60
			12/01/2025			\$17.70	\$0.00	\$69.98
			06/01/2026	\$44.07	\$9.65	\$17.70	\$0.00	\$71.42
			12/01/2026		\$9.65	\$17.70	\$0.00	\$72.86
			06/01/2027	\$46.96	\$9.65	\$17.70	\$0.00	\$74.3
			12/01/2027	\$48.41	\$9.65	\$17.70	\$0.00	\$75.76
			06/01/2028	\$49.91	\$9.65	\$17.70	\$0.00	\$77.20
			12/01/2028	\$51.41	\$9.65	\$17.70	\$0.00	\$78.70

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Liice	ive Date - 12/01/2024				Supplemental	
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	60	\$23.92	\$9.65	\$17.70	\$0.00	\$51.27
2	70	\$27.90	\$9.65	\$17.70	\$0.00	\$55.25
3	80	\$31.89	\$9.65	\$17.70	\$0.00	\$59.24
4	90	\$35.87	\$9.65	\$17.70	\$0.00	\$63.22
Effect	ive Date - 06/01/2025				Supplemental	
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	60	\$24.75	\$9.65	\$17.70	\$0.00	\$52.10
2	70	\$28.88	\$9.65	\$17.70	\$0.00	\$56.23
3	80	\$33.00	\$9.65	\$17.70	\$0.00	\$60.35
4	90	\$37.13	\$9.65	\$17.70	\$0.00	\$64.48
Notes:	- — — — — — — :					
						i
Appre	entice to Journeyworker Ra	ntio:1:5				'
	z HIGHWAY)	12/01/2024	\$39.86	\$9.65	\$17.80	\$0.00
2 (HEAV	Y & HIGHWAY)	06/01/2025	\$41.25	\$9.65	\$17.80	\$0.00
		12/01/2025	\$42.63	\$9.65	\$17.80	\$0.00
		06/01/2026	5 \$44.07	\$9.65	\$17.80	\$0.00
		12/01/2026	\$45.51	\$9.65	\$17.80	\$0.00
	entice - LABORER (Heavy ive Date - 12/01/2024 percent	& Highway) - Zone 2 Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.92	\$9.65	\$17.80	\$0.00	\$51.37
_	70	\$27.90	\$9.65	\$17.80	\$0.00	\$55.35
2		\$31.89	\$9.65	\$17.80	\$0.00	\$59.34
	80		** **		\$0.00	\$63.32
2	80 90	\$35.87	\$9.65	\$17.80	\$0.00	
2 3 4			\$9.65	\$17.80		
2 3 4	90			\$17.80 Pension	Supplemental Unemployment	Total Rate
2 3 4 Effect	90 ive Date - 06/01/2025	\$35.87			Supplemental	
2 3 4 Effection	90 ive Date - 06/01/2025 percent	\$35.87 Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
2 3 4 Effecti Step	90 ive Date - 06/01/2025 percent 60	\$35.87 Apprentice Base Wage \$24.75	Health \$9.65	Pension \$17.80	Supplemental Unemployment \$0.00	Total Rate

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: CARPENTER TENDER LABORERS - ZONE 2	12/01/2024	\$39.86	\$9.65	\$17.70	\$0.00	\$67.21
LABOREKS - ZONE 2	06/01/2025	\$41.25	\$9.65	\$17.70	\$0.00	\$68.60
	12/01/2025	\$42.63	\$9.65	\$17.70	\$0.00	\$69.98
	06/01/2026	\$44.07	\$9.65	\$17.70	\$0.00	\$71.42
	12/01/2026	\$45.51	\$9.65	\$17.70	\$0.00	\$72.86
	06/01/2027	\$46.96	\$9.65	\$17.70	\$0.00	\$74.31
	12/01/2027	\$48.41	\$9.65	\$17.70	\$0.00	\$75.76
	06/01/2028	\$49.91	\$9.65	\$17.70	\$0.00	\$77.26
	12/01/2028	\$51.41	\$9.65	\$17.70	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"						
LABORER: CEMENT FINISHER TENDER LABORERS - ZONE 2	12/01/2024	\$39.86	\$9.65	\$17.70	\$0.00	\$67.21
	06/01/2025	\$41.25	\$9.65	\$17.70	\$0.00	\$68.60
	12/01/2025	\$42.63	\$9.65	\$17.70	\$0.00	\$69.98
	06/01/2026	\$44.07	\$9.65	\$17.70	\$0.00	\$71.42
	12/01/2026	\$45.51	\$9.65	\$17.70	\$0.00	\$72.86
	06/01/2027	\$46.96	\$9.65	\$17.70	\$0.00	\$74.31
	12/01/2027	\$48.41	\$9.65	\$17.70	\$0.00	\$75.76
	06/01/2028	\$49.91	\$9.65	\$17.70	\$0.00	\$77.26
For apprentice rates see "Apprentice- LABORER"	12/01/2028	\$51.41	\$9.65	\$17.70	\$0.00	\$78.76
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	12/02/2024	\$39.95	\$9.65	\$17.76	\$0.00	\$67.36
LABORERS - ZONE 2	06/02/2025	\$41.34	\$9.65	\$17.76	\$0.00	\$68.75
	12/01/2025	\$42.72	\$9.65	\$17.76	\$0.00	\$70.13
	06/01/2026	\$44.16	\$9.65	\$17.76	\$0.00	\$71.57
	12/07/2026	\$45.60	\$9.65	\$17.76	\$0.00	\$73.01
	06/07/2027	\$47.05	\$9.65	\$17.76	\$0.00	\$74.46
	12/06/2027	\$48.50	\$9.65	\$17.76	\$0.00	\$75.91
	06/05/2028	\$50.00	\$9.65	\$17.76	\$0.00	\$73.91
				\$17.76	\$0.00	
For apprentice rates see "Apprentice- LABORER"	12/04/2028	\$51.50	\$9.65	\$17.70	\$0.00	\$78.91
LABORER: MASON TENDER	12/01/2024	\$40.11	\$9.65	\$17.70	\$0.00	\$67.46
LABORERS - ZONE 2	06/01/2025	\$41.50	\$9.65	\$17.70	\$0.00	\$68.85
	12/01/2025	\$42.88	\$9.65	\$17.70	\$0.00	\$70.23
	06/01/2026	\$44.32	\$9.65	\$17.70	\$0.00	\$71.67
	12/01/2026	\$45.76	\$9.65	\$17.70	\$0.00	\$73.11
	06/01/2027	\$47.21	\$9.65	\$17.70	\$0.00	\$74.56
	12/01/2027	\$48.66	\$9.65	\$17.70	\$0.00	\$74.00
	06/01/2028	\$50.16	\$9.65	\$17.70	\$0.00	\$77.51
	12/01/2028	\$50.16 \$51.66	\$9.65	\$17.70	\$0.00	\$77.31
For apprentice rates see "Apprentice- LABORER"	12/01/2020	φυ1.00	φ7.03	φ17.70	ψυ.υυ	φ/2.U1
LABORER: MASON TENDER (HEAVY & HIGHWAY)	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$70.33
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	12/01/2020	ψτ././Ο	ψ2.03	Ψ17.00	ψυ.ου	ψ/ J. Δ1

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MULTI-TRADE TENDER	12/01/2024	\$39.86	\$9.65	\$17.70	\$0.00	\$67.21
LABORERS - ZONE 2	06/01/2025	\$41.25	\$9.65	\$17.70	\$0.00	\$68.60
	12/01/2025	\$42.63	\$9.65	\$17.70	\$0.00	\$69.98
	06/01/2026	\$44.07	\$9.65	\$17.70	\$0.00	\$71.42
	12/01/2026	\$45.51	\$9.65	\$17.70	\$0.00	\$72.86
	06/01/2027	\$46.96	\$9.65	\$17.70	\$0.00	\$74.31
	12/01/2027	\$48.41	\$9.65	\$17.70	\$0.00	\$75.76
	06/01/2028	\$49.91	\$9.65	\$17.70	\$0.00	\$77.26
For apprentice rates see "Apprentice- LABORER"	12/01/2028	\$51.41	\$9.65	\$17.70	\$0.00	\$78.76
LABORER: TREE REMOVER	12/01/2024	\$39.86	\$9.65	\$17.70	\$0.00	\$67.21
ABORERS - ZONE 2	06/01/2025	\$41.25	\$9.65	\$17.70	\$0.00	\$68.60
	12/01/2025	\$42.63	\$9.65	\$17.70	\$0.00	\$69.98
	06/01/2026	\$44.07	\$9.65	\$17.70	\$0.00	\$71.42
	12/01/2026	\$45.51	\$9.65	\$17.70	\$0.00	\$72.86
	06/01/2027	\$46.96	\$9.65	\$17.70	\$0.00	\$74.31
	12/01/2027	\$48.41	\$9.65	\$17.70	\$0.00	\$75.76
	06/01/2028	\$49.91	\$9.65	\$17.70	\$0.00	\$77.26
	12/01/2028	\$51.41	\$9.65	\$17.70	\$0.00	\$78.76
This classification applies to the removal of standing trees, and the trimming and clearance incidental to construction . For apprentice rates see "Apprentice-LAB"	l removal of branches and lim					*******
LASER BEAM OPERATOR	12/01/2024	\$40.11	\$9.65	\$17.70	\$0.00	\$67.46
ABORERS - ZONE 2	06/01/2025	\$41.50	\$9.65	\$17.70	\$0.00	\$68.85
	12/01/2025	\$42.88	\$9.65	\$17.70	\$0.00	\$70.23
	06/01/2026	\$44.32	\$9.65	\$17.70	\$0.00	\$71.67
	12/01/2026	\$45.76	\$9.65	\$17.70	\$0.00	\$73.11
	06/01/2027	\$47.21	\$9.65	\$17.70	\$0.00	\$74.56
	12/01/2027	\$48.66	\$9.65	\$17.70	\$0.00	\$76.01
	06/01/2028	\$50.16	\$9.65	\$17.70	\$0.00	\$77.51
	12/01/2028	\$51.66	\$9.65	\$17.70	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
ABOKEKS - ZONE 2 (HEAT I & HIGHWAI)	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
MARBLE & TILE FINISHERS BRICKLAYERS LOCAL 3 - MARBLE & TILE	02/01/2025	\$50.36	\$11.49	\$21.62	\$0.00	\$83.47
	08/01/2025	\$52.08	\$11.49	\$21.62	\$0.00	\$85.19
	02/01/2026	\$53.16	\$11.49	\$21.62	\$0.00	\$86.27
	08/01/2026	\$54.92	\$11.49	\$21.62	\$0.00	\$88.03
	02/01/2027	\$56.04	\$11.49	\$21.62	\$0.00	\$89.15

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\$23.56

\$23.56

\$11.49

\$11.49

\$0.00

\$0.00

\$106.57

\$107.97

Apprentice - A	MARBLE & TILE FINISHER - Local 3 Marble & Tile
Effective Date	02/01/2025

E	ffective	e Date -	02/01/2025				Supplemental		
S	tep	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	1	50		\$25.18	\$11.49	\$21.62	\$0.00	\$58.29	
2	2	60		\$30.22	\$11.49	\$21.62	\$0.00	\$63.33	
3	3	70		\$35.25	\$11.49	\$21.62	\$0.00	\$68.36	
2	1	80		\$40.29	\$11.49	\$21.62	\$0.00	\$73.40	
4	5	90		\$45.32	\$11.49	\$21.62	\$0.00	\$78.43	
		e Date -	08/01/2025	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
		50		\$26.04	\$11.49	\$21.62	\$0.00	\$59.15	
2		60		\$31.25	\$11.49	\$21.62	\$0.00	\$64.36	
3		70		\$36.46	\$11.49	\$21.62	\$0.00	\$69.57	
2		80		\$41.66	\$11.49	\$21.62	\$0.00	\$74.77	
5		90		\$46.87	\$11.49	\$21.62	\$0.00	\$79.98	
N	Notes:								
Ā	 .pprent	tice to Jou	rneyworker Ratio:1:3						
			S & TERRAZZO MECH	02/01/2025	\$65.8	32 \$11.49	\$23.56	\$0.00	\$100.87
BRICKLAYERS LOCAL	L 3 - MAI	KBLE & TILE	3	08/01/2025	\$67.9	97 \$11.49	\$23.56	\$0.00	\$103.02
				02/01/2026	\$69.3	\$11.49	\$23.56	\$0.00	\$104.37

08/01/2026

02/01/2027

\$71.52

\$72.92

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Total Rate

	Step	ive Date -	02/01/2025	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	50		\$32.91	\$11.49	\$23.56	\$0.00	\$67.96	
	2	60		\$39.49	\$11.49	\$23.56	\$0.00	\$74.54	
	3	70		\$46.07	\$11.49	\$23.56	\$0.00	\$81.12	
	4	80		\$52.66	\$11.49	\$23.56	\$0.00	\$87.71	
	5	90		\$59.24	\$11.49	\$23.56	\$0.00	\$94.29	
	Effect	ive Date -	08/01/2025				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50		\$33.99	\$11.49	\$23.56	\$0.00	\$69.04	
	2	60		\$40.78	\$11.49	\$23.56	\$0.00	\$75.83	
	3	70		\$47.58	\$11.49	\$23.56	\$0.00	\$82.63	
	4	80		\$54.38	\$11.49	\$23.56	\$0.00	\$89.43	
	5	90		\$61.17	\$11.49	\$23.56	\$0.00	\$96.22	
	Notes	· :							
								i	
	Appre	entice to Jo	urneyworker Ratio:1:5						
			ON CONST. SITES)	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
CRATING ENG	INEERS L	OCAL 4		06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
				12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
				06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
				12/01/2026	5 \$61.84	\$15.55	\$16.50	\$0.00	\$93.89
			DPERATING ENGINEERS"						
CHANICS TRATING ENG				12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
				06/01/2025	5 \$57.68	\$15.55	\$16.50	\$0.00	\$89.73
				12/01/2025	5 \$59.12	\$15.55	\$16.50	\$0.00	\$91.17
				06/01/2026	5 \$60.40	\$15.55	\$16.50	\$0.00	\$92.45
F		" A	ODED ATING ENGINEED OF	12/01/2026	5 \$61.84	\$15.55	\$16.50	\$0.00	\$93.89
			DPERATING ENGINEERS"				Φ21.17	#0.00	
MILLWRIGHT (Zone 2) MILLWRIGHTS LOCAL 1121 - Zone 2		01/06/2025	5 \$45.09	\$10.08	\$21.47	\$0.00	\$76.64		

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	Step	ive Date - 01/06/2025 percent		tice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	:
	1	55		\$24.80	\$10.08	\$5.50	\$0.00	\$40.38	
	2	65		\$29.31	\$10.08	\$6.50	\$0.00	\$45.89	
	3	75		\$33.82	\$10.08	\$18.97	\$0.00	\$62.87	
	4	85		\$38.33	\$10.08	\$19.97	\$0.00	\$68.38	
	Effect	ive Date - 01/05/2026					Supplemental		
	Step	percent	Appren	tice Base Wage	Health	Pension	Unemployment	Total Rate	:
	1	55		\$26.08	\$10.08	\$5.50	\$0.00	\$41.66	
	2	65		\$30.82	\$10.08	\$6.50	\$0.00	\$47.40	
	3 75 4 85			\$35.57	\$10.08	\$18.97	\$0.00	\$64.62	
				\$40.31	\$10.08			\$70.36	
		Steps are 2,000 hours	(Step 1 \$5.72, Step 2 \$	-					
		ntice to Journeyworker	Ratio:1:4						
MORTAR MIXER LABORERS - ZONE 2			12/01/2024	4 \$40.11	\$9.65	\$17.70	\$0.00	\$67.40	
			06/01/2025	5 \$41.50	\$9.65	\$17.70	\$0.00	\$68.85	
				12/01/2025	5 \$42.88	\$9.65	\$17.70	\$0.00	\$70.23
				06/01/2026	6 \$44.32	\$9.65	\$17.70	\$0.00	\$71.67
				12/01/2026	6 \$45.76	\$9.65	\$17.70	\$0.00	\$73.11
				06/01/2027	7 \$47.21	\$9.65	\$17.70	\$0.00	\$74.56
				12/01/2027	7 \$48.66	\$9.65	\$17.70	\$0.00	\$76.01
				06/01/2028	8 \$50.16	\$9.65	\$17.70	\$0.00	\$77.51
				12/01/2028	8 \$51.66	\$9.65	\$17.70	\$0.00	\$79.0
•••		'Apprentice- LABORER"	ADALLC)						
ER (OTHE RATING ENG		N TRUCK CRANES,GR OCAL 4	ADALLS)	12/01/2024	*		\$16.40	\$0.00	\$57.07
				06/01/2025			\$16.40	\$0.00	\$57.67
				12/01/2025			\$16.40	\$0.00	\$58.33
				06/01/2026				\$0.00	\$58.92
For apprentice	e rates see	'Apprentice- OPERATING EN	GINEERS"	12/01/2026	6 \$27.89	\$15.30	\$16.40	\$0.00	\$59.59
ER (TRUC	K CRA	NES, GRADALLS)		12/01/2024	4 \$31.08	\$15.30	\$16.40	\$0.00	\$62.78
RATING ENG	INEERS L	OCAL 4		06/01/2025				\$0.00	\$63.50
				12/01/2025				\$0.00	\$64.30
				06/01/2026				\$0.00	\$65.02
				00/01/2020	Ψ55.52				

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
OTHER POWER DRIVEN EQUIPMENT - CLASS II	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
OPERATING ENGINEERS LOCAL 4	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
Construction and a supplier ODER ATING ENGINEERS	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 - ZONE 2	01/01/2025	\$58.46	\$9.95	\$23.95	\$0.00	\$92.36

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effecti	ve Date - 01/01/2025				Supplemental	
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18
2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76
3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29
4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82
5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19
6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73
7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25
8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30
Notes:						
	Steps are 750 hrs.					
Appre	ntice to Journeyworker Ratio:1:1					- — — —
AY OR	SANDBLAST, NEW) *	01/01/2025	\$49.36	\$9.95	\$23.95	\$0.00 \$83.26

PAINTER (SPRAY OR SANDBLAST, NEW) *

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

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

Step	ive Date - 01/01/2025	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.68	\$9.95	\$0.00	\$0.00	\$34.63
2	55	\$27.15	\$9.95	\$6.66	\$0.00	\$43.76
3	60	\$29.62	\$9.95	\$7.26	\$0.00	\$46.83
4	65	\$32.08	\$9.95	\$7.87	\$0.00	\$49.90
5	70	\$34.55	\$9.95	\$20.32	\$0.00	\$64.82
)	75	\$37.02	\$9.95	\$20.93	\$0.00	\$67.90
7	80	\$39.49	\$9.95	\$21.53	\$0.00	\$70.97
8	90	\$44.42	\$9.95	\$22.74	\$0.00	\$77.11

Apprentice to Journeyworker Ratio:1:1

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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PAINTER (SPRAY OR SANDBLAST, REPAINT)	01/01/2025	\$47.42	\$9.95	\$23.95	\$0.00	\$81.32

Apprentice -	PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint
T-00	01/01/2025

Effecti	ve Date - 01/01/2025				Supplemental	
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50	\$23.71	\$9.95	\$0.00	\$0.00	\$33.66
2	55	\$26.08	\$9.95	\$6.66	\$0.00	\$42.69
3	60	\$28.45	\$9.95	\$7.26	\$0.00	\$45.66
4	65	\$30.82	\$9.95	\$7.87	\$0.00	\$48.64
5	70	\$33.19	\$9.95	\$20.32	\$0.00	\$63.46
6	75	\$35.57	\$9.95	\$20.93	\$0.00	\$66.45
7	80	\$37.94	\$9.95	\$21.53	\$0.00	\$69.42
8	90	\$42.68	\$9.95	\$22.74	\$0.00	\$75.37
Notes:						. — — —
	Steps are 750 hrs.					l I
Appre	ntice to Journeyworker Ratio:1:1					
AINTER / TAPER (BE	RUSH, NEW) *	01/01/2025	5 \$47.	96 \$9.95	\$23.95	\$0.00 \$81.86

^{*} 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

Step	ve Date - 01/01/2025 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.98	\$9.95	\$0.00	\$0.00	\$33.93
2	55	\$26.38	\$9.95	\$6.66	\$0.00	\$42.99
3	60	\$28.78	\$9.95	\$7.26	\$0.00	\$45.99
4	65	\$31.17	\$9.95	\$7.87	\$0.00	\$48.99
5	70	\$33.57	\$9.95	\$20.32	\$0.00	\$63.84
6	75	\$35.97	\$9.95	\$20.93	\$0.00	\$66.85
7	80	\$38.37	\$9.95	\$21.53	\$0.00	\$69.85
8	90	\$43.16	\$9.95	\$22.74	\$0.00	\$75.85
Notes:						
İ	Steps are 750 hrs.					
Appre	ntice to Journeyworker Ratio:					
TER / TAPER (BI	RUSH, REPAINT)	01/01/2025	5 \$46.	02 \$9.95	\$23.95 \$	50.00 \$79.92

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Total Rate

	Step	ve Date - 01/01/2025 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rat	:e
	1	50	\$23.01	\$9.95	\$0.00	\$0.00	\$32.9	6
	2	55	\$25.31	\$9.95	\$6.66	\$0.00	\$41.9	2
	3	60	\$27.61	\$9.95	\$7.26	\$0.00	\$44.8	2
	4	65	\$29.91	\$9.95	\$7.87	\$0.00	\$47.7	3
	5	70	\$32.21	\$9.95	\$20.32	\$0.00	\$62.4	8
	6	75	\$34.52	\$9.95	\$20.93	\$0.00	\$65.4	0
	7	80	\$36.82	\$9.95	\$21.53	\$0.00	\$68.3	0
	8	90	\$41.42	\$9.95	\$22.74	\$0.00	\$74.1	1
	Notes:							
	İ	Steps are 750 hrs.						
	Appre	ntice to Journeyworker Ratio:1:1						
AINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)		12/01/2024	\$39.86	\$9.65	\$17.80	\$0.00	\$67.31	
BORERS - ZON	E 2 (HEAV	Y & HIGHWAY)	06/01/2025	5 \$41.25	\$9.65	\$17.80	\$0.00	\$68.70
			12/01/2025	\$42.63	\$9.65	\$17.80	\$0.00	\$70.08
			06/01/2026	5 \$44.07	\$9.65	\$17.80	\$0.00	\$71.52
			12/01/2026	5 \$45.51	\$9.65	\$17.80	\$0.00	\$72.96
For apprentic	e rates see '	Apprentice- LABORER (Heavy and Highwa	y)					
		UCKS DRIVER IL NO. 10 ZONE B	01/01/2025	\$39.78	\$15.57	\$20.17	\$0.00	\$75.52
AMSTERS JOIN	ii coone.	IL NO. 10 ZONE B	06/01/2025	\$40.78	\$15.57	\$20.17	\$0.00	\$76.52
			12/01/2025	\$40.78	\$15.57	\$21.78	\$0.00	\$78.13
			01/01/2026	5 \$40.78	\$16.17	\$21.78	\$0.00	\$78.73
			06/01/2026	\$41.78	\$16.17	\$21.78	\$0.00	\$79.73
			12/01/2026	5 \$41.78	\$16.17	\$23.52	\$0.00	\$81.47
			01/01/2027	7 \$41.78	\$16.77	\$23.52	\$0.00	\$82.07
	OCK CO	NSTRUCTOR (UNDERPINNING	AND 08/01/2024	\$51.97	\$10.08	\$24.29	\$0.00	\$86.34
ECK) LE DRIVER LOG For apprentic		NE 2) Apprentice- PILE DRIVER"						

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Apprentice -	PILE DRIVER - Local 56 Zone 2
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Effe	ctive Date - 08/01/2024				Supplemental		
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	•
1	45	\$23.39	\$10.08	\$2.53	\$0.00	\$36.00)
2	55	\$28.58	\$10.08	\$5.07	\$0.00	\$43.73	3
3	70	\$36.38	\$10.08	\$19.22	\$0.00	\$65.68	3
4	80	\$41.58	\$10.08	\$21.76	\$0.00	\$73.42	2
Note							
į		8/1/2020, 50/60/70/75/80/80/90/90 3 \$70.75/4 \$73.35/5&6 \$75.95/7&8 83	1.14			i	
App	rentice to Journeyworker	Ratio:1:5					
PIPELAYER		12/01/2024	4 \$40.11	\$9.65	\$17.70	\$0.00	\$67.46
LABORERS - ZONE 2		06/01/202:	5 \$41.50	\$9.65	\$17.70	\$0.00	\$68.85
		12/01/202:	5 \$42.88	\$9.65	\$17.70	\$0.00	\$70.23
		06/01/2020	6 \$44.32	\$9.65	\$17.70	\$0.00	\$71.67
		12/01/2020	6 \$45.76	\$9.65	\$17.70	\$0.00	\$73.11
		06/01/202	7 \$47.21	\$9.65	\$17.70	\$0.00	\$74.56
		12/01/202	7 \$48.66	\$9.65	\$17.70	\$0.00	\$76.01
		06/01/202	8 \$50.16	\$9.65	\$17.70	\$0.00	\$77.51
For apprentice rates se	ee "Apprentice- LABORER"	12/01/202	8 \$51.66	\$9.65	\$17.70	\$0.00	\$79.01
PIPELAYER (HEAV	Y & HIGHWAY)	12/01/2024	4 \$40.11	\$9.65	\$17.80	\$0.00	\$67.56
LABORERS - ZONE 2 (HE.	AVY & HIGHWAY)	06/01/202	5 \$41.50	\$9.65	\$17.80	\$0.00	\$68.95
		12/01/202	5 \$42.88	\$9.65	\$17.80	\$0.00	\$70.33
		06/01/2020	6 \$44.32	\$9.65	\$17.80	\$0.00	\$71.77
		12/01/2020	6 \$45.76	\$9.65	\$17.80	\$0.00	\$73.21
	ee "Apprentice- LABORER (Heavy	and Highway)					
PLUMBER & PIPEF: PLUMBERS & PIPEFITTE		08/26/2024	4 \$54.74	\$10.15	\$19.95	\$0.00	\$84.84
LOWDENS & THEFITTE	AG LOCAL II	08/25/202	5 \$57.49	\$10.15	\$19.95	\$0.00	\$87.59

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\$2.50

\$2.50

\$8.80

\$10.15

\$10.15

\$10.15

Pension	Supplemental Unemployment	Total Rate
Supplementa	1	
Unemploymen	t Total Rate	
\$0.00	\$34.55	
\$0.00	\$40.02	
\$0.00	\$51.79	
\$0.00	\$62.55	
\$0.00	\$71.54	
Supplementa Unemploymen		
\$0.00	35.65	
\$0.00	\$41.40	
\$0.00	\$53.44	
\$0.00	0 001 17	

4	70	\$38.32	\$10.15	\$14.08	\$0.00	\$62.55
5	80	\$43.79	\$10.15	\$17.60	\$0.00	\$71.54
Effect	ive Date - 08/25/2025				Supplemental	
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	40	\$23.00	\$10.15	\$2.50	\$0.00	\$35.65
2	50	\$28.75	\$10.15	\$2.50	\$0.00	\$41.40
3	60	\$34.49	\$10.15	\$8.80	\$0.00	\$53.44
4	70	\$40.24	\$10.15	\$14.08	\$0.00	\$64.47
5	80	\$45.99	\$10.15	\$17.60	\$0.00	\$73.74
Notes:	- — — — — — — :					

Apprentice Base Wage Health

\$21.90

\$27.37

\$32.84

Apprentice to Journeyworker Ratio:1:3

Steps 2000hrs. Prior 9/1/05; 40/40/45/50/55/60/65/75/80/85

Apprentice - PLUMBER/PIPEFITTER - Local 51

08/26/2024

Effective Date -

percent

40

50

60

Step

1

2

3

PNEUMATIC CONTROLS (TEMP.)	08/26/2024	\$54.74	\$10.15	\$19.95	\$0.00	\$84.84
PLUMBERS & PIPEFITTERS LOCAL 51	08/25/2025	\$57.49	\$10.15	\$19.95	\$0.00	\$87.59
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
PNEUMATIC DRILL/TOOL OPERATOR	12/01/2024	\$40.61	\$9.65	\$17.70	\$0.00	\$67.96
LABORERS - ZONE 2	06/01/2025	\$42.00	\$9.65	\$17.70	\$0.00	\$69.35
	12/01/2025	\$43.38	\$9.65	\$17.70	\$0.00	\$70.73
	06/01/2026	\$44.82	\$9.65	\$17.70	\$0.00	\$72.17
	12/01/2026	\$46.26	\$9.65	\$17.70	\$0.00	\$73.61
	06/01/2027	\$47.71	\$9.65	\$17.70	\$0.00	\$75.06
	12/01/2027	\$49.16	\$9.65	\$17.70	\$0.00	\$76.51
	06/01/2028	\$50.66	\$9.65	\$17.70	\$0.00	\$78.01
	12/01/2028	\$52.16	\$9.65	\$17.70	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY &	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
POWDERMAN & BLASTER	12/01/2024	\$40.86	\$9.65	\$17.70	\$0.00	\$68.21
LABORERS - ZONE 2	06/01/2025	\$42.25	\$9.65	\$17.70	\$0.00	\$69.60
	12/01/2025	\$43.63	\$9.65	\$17.70	\$0.00	\$70.98
	06/01/2026	\$45.07	\$9.65	\$17.70	\$0.00	\$72.42
	12/01/2026	\$46.51	\$9.65	\$17.70	\$0.00	\$73.86
	06/01/2027	\$47.96	\$9.65	\$17.70	\$0.00	\$75.31
	12/01/2027	\$49.41	\$9.65	\$17.70	\$0.00	\$76.76
	06/01/2028	\$50.91	\$9.65	\$17.70	\$0.00	\$78.26
For apprentice rates see "Apprentice- LABORER"	12/01/2028	\$52.41	\$9.65	\$17.70	\$0.00	\$79.76
POWDERMAN & BLASTER (HEAVY & HIGHWAY)	12/01/2024	\$40.86	\$9.40	\$17.55	\$0.00	\$67.81
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2025	\$42.25	\$9.40	\$17.55	\$0.00	\$69.20
	12/01/2025	\$43.63	\$9.40	\$17.55	\$0.00	\$70.58
	06/01/2026	\$45.07	\$9.40	\$17.55	\$0.00	\$70.36
	12/01/2026	\$46.51	\$9.40	\$17.55	\$0.00	\$73.46
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	12/01/2020	Ф -1 0.51	φ2.τυ	Ψ17.33	ψ0.00	\$75.40
POWER SHOVEL/DERRICK/TRENCHING MACHINE	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
OPERATING ENGINEERS LOCAL 4	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE)	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
OPERATING ENGINEERS LOCAL 4	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 4	12/01/2024	\$36.67	\$15.55	\$16.50	\$0.00	\$68.72
	06/01/2025	\$37.52	\$15.55	\$16.50	\$0.00	\$69.57
	12/01/2025	\$38.47	\$15.55	\$16.50	\$0.00	\$70.52
	06/01/2026	\$39.33	\$15.55	\$16.50	\$0.00	\$71.38
Comment of the control of the contro	12/01/2026	\$40.28	\$15.55	\$16.50	\$0.00	\$72.33
For apprentice rates see "Apprentice- OPERATING ENGINEERS" READY-MIX CONCRETE DRIVER						
TEAMSTERS 653 - Southeastern Concrete (Weymouth)	08/01/2023	\$25.00	\$13.91	\$6.90	\$0.00	\$45.81
RECLAIMERS	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
OPERATING ENGINEERS LOCAL 4	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

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RIDE-ON MOT			Effective Da	te Base Wag	e Health	Pension	Supplemental Unemployment	Total Rate
		D BUGGY OPERATOR	12/01/2024	\$40.11	\$9.65	\$17.70	\$0.00	\$67.46
ABORERS - ZONE	2		06/01/2025	\$41.50	\$9.65	\$17.70	\$0.00	\$68.85
			12/01/2025	\$42.88	\$9.65	\$17.70	\$0.00	\$70.23
			06/01/2026	\$44.32	\$9.65	\$17.70	\$0.00	\$71.67
			12/01/2026	\$45.76	\$9.65	\$17.70	\$0.00	\$73.11
			06/01/2027	\$47.21	\$9.65	\$17.70	\$0.00	\$74.56
			12/01/2027	\$48.66	\$9.65	\$17.70	\$0.00	\$76.01
			06/01/2028	\$50.16	\$9.65	\$17.70	\$0.00	\$77.51
			12/01/2028	\$51.66	\$9.65	\$17.70	\$0.00	\$79.01
For apprentice	rates see "	Apprentice- LABORER"						
ROLLER/SPRE OPERATING ENGIN		MULCHING MACHINE	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
IF EKATING ENGI	NEEKS LC	CAL 4	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
			12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
			06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
_			12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
		Apprentice- OPERATING ENGINEERS"						
ROOFER (Inc.R ROOFERS LOCAL 3		Vaterproofing &Roofer Damproofg)	02/01/2025		\$13.03	\$21.70	\$0.00	\$87.01
			08/01/2025	\$53.78	\$13.03	\$21.70	\$0.00	\$88.51
			02/01/2026	\$55.03	\$13.03	\$21.70	\$0.00	\$89.76
	Step 1	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment		
	1							
		50	\$26.14	\$13.03	\$15.55	\$0.00		
	2	60	\$26.14 \$31.37	\$13.03 \$13.03	\$15.55 \$21.70	\$0.00 \$0.00		
	2 3	60 65	\$31.37 \$33.98			\$0.00 \$0.00	\$66.10 \$68.71	
	2	60 65 75	\$31.37	\$13.03	\$21.70	\$0.00	\$66.10 \$68.71	
	2 3	60 65	\$31.37 \$33.98	\$13.03 \$13.03	\$21.70 \$21.70	\$0.00 \$0.00	\$66.10 \$68.71 \$73.94	
	2 3 4 5	60 65 75 85 ve Date - 08/01/2025	\$31.37 \$33.98 \$39.21 \$44.44	\$13.03 \$13.03 \$13.03 \$13.03	\$21.70 \$21.70 \$21.70 \$21.70	\$0.00 \$0.00 \$0.00 \$0.00	\$66.10 \$68.71 \$73.94 \$79.17	
	2 3 4 5 Effecti Step	60 65 75 85 ve Date - 08/01/2025 percent	\$31.37 \$33.98 \$39.21 \$44.44 Apprentice Base Wage	\$13.03 \$13.03 \$13.03 \$13.03	\$21.70 \$21.70 \$21.70	\$0.00 \$0.00 \$0.00 \$0.00	\$66.10 \$68.71 \$73.94 \$79.17	
	2 3 4 5 Effecti Step 1	60 65 75 85 ve Date - 08/01/2025 percent 50	\$31.37 \$33.98 \$39.21 \$44.44	\$13.03 \$13.03 \$13.03 \$13.03	\$21.70 \$21.70 \$21.70 \$21.70	\$0.00 \$0.00 \$0.00 \$0.00	\$66.10 \$68.71 \$73.94 \$79.17	
	2 3 4 5 Effecti Step 1 2	60 65 75 85 ve Date - 08/01/2025 percent	\$31.37 \$33.98 \$39.21 \$44.44 Apprentice Base Wage	\$13.03 \$13.03 \$13.03 \$13.03 Health	\$21.70 \$21.70 \$21.70 \$21.70 Pension	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment	\$66.10 \$68.71 \$73.94 \$79.17 Total Rate	
	2 3 4 5 Effecti Step 1	60 65 75 85 ve Date - 08/01/2025 percent 50	\$31.37 \$33.98 \$39.21 \$44.44 Apprentice Base Wage	\$13.03 \$13.03 \$13.03 \$13.03 Health \$13.03	\$21.70 \$21.70 \$21.70 \$21.70 Pension	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment	\$66.10 \$68.71 \$73.94 \$79.17 Total Rate \$55.47 \$67.00	
	2 3 4 5 Effecti Step 1 2 3 4	60 65 75 85 ve Date - 08/01/2025 percent 50 60	\$31.37 \$33.98 \$39.21 \$44.44 Apprentice Base Wage \$26.89 \$32.27	\$13.03 \$13.03 \$13.03 \$13.03 Health \$13.03 \$13.03	\$21.70 \$21.70 \$21.70 \$21.70 Pension \$15.55 \$21.70	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00	\$66.10 \$68.71 \$73.94 \$79.17 Total Rate \$55.47 \$67.00 \$69.69	
	2 3 4 5 Effecti Step 1 2 3	60 65 75 85 ve Date - 08/01/2025 percent 50 60 65	\$31.37 \$33.98 \$39.21 \$44.44 Apprentice Base Wage \$26.89 \$32.27 \$34.96	\$13.03 \$13.03 \$13.03 \$13.03 Health \$13.03 \$13.03	\$21.70 \$21.70 \$21.70 \$21.70 \$21.70 Pension \$15.55 \$21.70 \$21.70	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00	\$66.10 \$68.71 \$73.94 \$79.17 Total Rate \$55.47 \$67.00 \$69.69 \$75.07	
	2 3 4 5 Effecti Step 1 2 3 4 5 Notes:	60 65 75 85 ve Date - 08/01/2025 percent 50 60 65 75 85 ** 1:5, 2:6-10, the 1:10; Reroofing: Step 1 is 2000 hrs.; Steps 2-5 are 1 (Hot Pitch Mechanics' receive \$1.6	\$31.37 \$33.98 \$39.21 \$44.44 Apprentice Base Wage \$26.89 \$32.27 \$34.96 \$40.34 \$45.71	\$13.03 \$13.03 \$13.03 \$13.03 \$13.03 \$13.03 \$13.03 \$13.03	\$21.70 \$21.70 \$21.70 \$21.70 \$21.70 Pension \$15.55 \$21.70 \$21.70	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00	\$66.10 \$68.71 \$73.94 \$79.17 Total Rate \$55.47 \$67.00 \$69.69 \$75.07	
	2 3 4 5 Effecti Step 1 2 3 4 5 Notes:	60 65 75 85 ve Date - 08/01/2025 percent 50 60 65 75 85 ** 1:5, 2:6-10, the 1:10; Reroofing: Step 1 is 2000 hrs.; Steps 2-5 are 1	\$31.37 \$33.98 \$39.21 \$44.44 Apprentice Base Wage \$26.89 \$32.27 \$34.96 \$40.34 \$45.71	\$13.03 \$13.03 \$13.03 \$13.03 \$13.03 \$13.03 \$13.03 \$13.03	\$21.70 \$21.70 \$21.70 \$21.70 \$21.70 Pension \$15.55 \$21.70 \$21.70	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00	\$66.10 \$68.71 \$73.94 \$79.17 Total Rate \$55.47 \$67.00 \$69.69 \$75.07	
_ ROOFER SLAT	2 3 4 5 Effecti Step 1 2 3 4 5 Notes:	60 65 75 85 ve Date - 08/01/2025 percent 50 60 65 75 85 ** 1:5, 2:6-10, the 1:10; Reroofing: Step 1 is 2000 hrs.; Steps 2-5 are 1 (Hot Pitch Mechanics' receive \$1.6	\$31.37 \$33.98 \$39.21 \$44.44 Apprentice Base Wage \$26.89 \$32.27 \$34.96 \$40.34 \$45.71	\$13.03 \$13.03 \$13.03 \$13.03 \$13.03 \$13.03 \$13.03 \$13.03	\$21.70 \$21.70 \$21.70 \$21.70 \$21.70 Pension \$15.55 \$21.70 \$21.70	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00	\$66.10 \$68.71 \$73.94 \$79.17 Total Rate \$55.47 \$67.00 \$69.69 \$75.07	\$87.26
	2 3 4 5 Effecti Step 1 2 3 4 5 Notes:	60 65 75 85 ve Date - 08/01/2025 percent 50 60 65 75 85 ** 1:5, 2:6-10, the 1:10; Reroofing: Step 1 is 2000 hrs.; Steps 2-5 are 1 (Hot Pitch Mechanics' receive \$1.6 ntice to Journeyworker Ratio: **	\$31.37 \$33.98 \$39.21 \$44.44 Apprentice Base Wage \$26.89 \$32.27 \$34.96 \$40.34 \$45.71 \$1:4, then 1:1 000 hrs. 00 hr. above ROOFER)	\$13.03 \$13.03 \$13.03 \$13.03 Health \$13.03 \$13.03 \$13.03 \$13.03 \$13.03	\$21.70 \$21.70 \$21.70 \$21.70 \$21.70 Pension \$15.55 \$21.70 \$21.70 \$21.70	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00	\$66.10 \$68.71 \$73.94 \$79.17 Total Rate \$55.47 \$67.00 \$69.69 \$75.07 \$80.44	\$87.26 \$88.76

Supplemental

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Classification				Effective Da	te Base Wag	e Health	Pension	Supplemental Unemployment	Total Rate
HEETMETAL				10/01/2024	\$42.33	\$14.59	\$19.04	\$2.24	\$78.20
HEETMETAL WO	RKERS LC	OCAL 1 / - B		04/01/2025	\$43.83	\$14.59	\$19.04	\$2.24	\$79.70
				10/01/2025	\$45.08	\$14.59	\$19.04	\$2.24	\$80.95
				04/01/2020	5 \$46.58	\$14.59	\$19.04	\$2.24	\$82.45
	Apprei Effecti Step	ntice - SH ve Date - percent	IEET METAL WORKER - Lo 10/01/2024	ocal 17-B Apprentice Base Wage	Health	Pension	Supplementa Unemploymer		
	1	40		\$16.93	\$14.59	\$4.18	\$1.09	9 \$36.79	
	2	45		\$19.05	\$14.59	\$4.71	\$1.1		
	3	50		\$21.17	\$14.59	\$11.84	\$1.4:		
	4	55		\$23.28	\$14.59	\$11.84	\$1.52		
	5	60		\$25.40	\$14.59	\$15.53	\$1.64		
	6	65		\$27.51	\$14.59	\$15.84	\$1.7		
	7	70		\$29.63	\$14.59	\$15.04	\$1.7		
	8	75		\$31.75	\$14.59	\$16.45	\$1.80		
	9	80		\$33.86	\$14.59	\$16.76	\$1.93		
	10	85		\$35.98	\$14.59	\$17.07	\$2.00		
	Effecti Step	ve Date -	04/01/2025	Apprentice Base Wage	Health	Pension	Supplementa Unemploymen		
	1	40		\$17.53	\$14.59	\$4.18	\$1.09	9 \$37.39	
	2	45		\$19.72	\$14.59	\$4.71	\$1.1	7 \$40.19	
	3	50		\$21.92	\$14.59	\$11.84	\$1.43	5 \$49.80	
	4	55		\$24.11	\$14.59	\$11.84	\$1.52	2 \$52.06	
	5	60		\$26.30	\$14.59	\$15.53	\$1.64	4 \$58.06	
	6	65		\$28.49	\$14.59	\$15.84	\$1.7	1 \$60.63	
	7	70		\$30.68	\$14.59	\$16.15	\$1.78	8 \$63.20	
	8	75		\$32.87	\$14.59	\$16.45	\$1.80	6 \$65.77	
	9	80		\$35.06	\$14.59	\$16.76	\$1.93	3 \$68.34	
	10	85		\$37.26	\$14.59	\$17.07	\$2.00	970.92	
	Notes:								
	Appre	ntice to Joi	ırneyworker Ratio:1:3						
			EQUIP < 35 TONS	01/01/2025	5 \$40.24	\$15.57	\$20.17	\$0.00	\$75.98
AMSTERS JOIN	T COUNC	IL NO. 10 ZO	NE B	06/01/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$76.98
				12/01/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$78.59
				01/01/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$79.19
				06/01/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$80.19
				12/01/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$81.93
				01/01/2023	7 \$42.24	\$16.77	\$23.52	\$0.00	\$82.53

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SPECIALIZED EARTH MOVING EQUIP > 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	01/01/2025	\$40.53	\$15.57	\$20.17	\$0.00	\$76.27
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	06/01/2025	\$41.53	\$15.57	\$20.17	\$0.00	\$77.27
	12/01/2025	\$41.53	\$15.57	\$21.78	\$0.00	\$78.88
	01/01/2026	\$41.53	\$16.17	\$21.78	\$0.00	\$79.48
	06/01/2026	\$42.53	\$16.17	\$21.78	\$0.00	\$80.48
	12/01/2026	\$42.53	\$16.17	\$23.52	\$0.00	\$82.22
	01/01/2027	\$42.53	\$16.77	\$23.52	\$0.00	\$82.82
SPRINKLER FITTER	10/01/2024	\$63.31	\$11.51	\$23.80	\$0.00	\$98.62
SPRINKLER FITTERS LOCAL 550 - (Section B) Zone 2	03/01/2025	\$64.93	\$11.51	\$23.80	\$0.00	\$100.24

Apprentice - SPRINKLER FITTER - Local 550 (Section B) Zone 2

Effecti	ve Date -	10/01/2024				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	35		\$22.16	\$11.51	\$13.07	\$0.00	\$46.74
2	40		\$25.32	\$11.51	\$13.90	\$0.00	\$50.73
3	45		\$28.49	\$11.51	\$14.72	\$0.00	\$54.72
4	50		\$31.66	\$11.51	\$15.55	\$0.00	\$58.72
5	55		\$34.82	\$11.51	\$16.38	\$0.00	\$62.71
6	60		\$37.99	\$11.51	\$17.20	\$0.00	\$66.70
7	65		\$41.15	\$11.51	\$18.03	\$0.00	\$70.69
8	70		\$44.32	\$11.51	\$18.85	\$0.00	\$74.68
9	75		\$47.48	\$11.51	\$19.68	\$0.00	\$78.67
10	80		\$50.65	\$11.51	\$20.50	\$0.00	\$82.66
Effecti	ve Date -	03/01/2025				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	35		\$22.73	\$11.51	\$13.07	\$0.00	\$47.31
2	40		\$25.97	\$11.51	\$13.90	\$0.00	\$51.38
3	45		\$29.22	\$11.51	\$14.72	\$0.00	\$55.45
4	50		\$32.47	\$11.51	\$15.55	\$0.00	\$59.53
5	55		\$35.71	\$11.51	\$16.38	\$0.00	\$63.60
6	60		\$38.96	\$11.51	\$17.20	\$0.00	\$67.67
7	65		\$42.20	\$11.51	\$18.03	\$0.00	\$71.74
8	70		\$45.45	\$11.51	\$18.85	\$0.00	\$75.81
9	75		\$48.70	\$11.51	\$19.68	\$0.00	\$79.89
10	80		\$51.94	\$11.51	\$20.50	\$0.00	\$83.95
Notes:		e entered prior 9/30/10: 55/60/65/70/75/80/85					
		850 hours					

Apprentice to Journeyworker Ratio:1:3

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	1		Effective Date	Base Wage	Health		Supplemental Unemployment	Total Rate
	LER OPERATOR		12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
PERATING EN	GINEERS LOCAL 4		06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
			12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
			06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
			12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentic	ce rates see "Apprentice- OPERATING ENG	NEERS"						
	ELF-PROPELLED OR TRACTOR	DRAWN	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
PERATING EN	GINEERS LOCAL 4		06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
			12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
			06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
			12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
	ce rates see "Apprentice- OPERATING ENG	NEERS"						
TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 223			09/01/2024	\$40.69	\$11.75	\$14.53	\$0.00	\$66.97
LECTRICIANS	LOCAL 223		09/01/2025	\$42.52	\$12.00	\$15.30	\$0.00	\$69.82
			09/01/2026	\$44.41	\$12.25	\$16.09	\$0.00	\$72.75
			09/01/2027	\$46.51	\$12.50	\$16.93	\$0.00	\$75.94
	Apprentice - TELECOMMUN. Effective Date - 09/01/2024 Step percent	ICATION TECHNICIA Apprent			\$12.50 Pension	\$16.93 Supplemental Unemployment		
	Effective Date - 09/01/2024		IN - Local 223			Supplemental	Total Rate	:
	Step percent 1 0 Notes: See Electrician Apprentic	Apprent e Wages	N - Local 223 tice Base Wage 1 \$0.00	Health \$0.00	Pension \$0.00	Supplemental Unemployment	Total Rate	:
	Effective Date - 09/01/2024 Step percent 1 0 Notes: See Electrician Apprentice Telecom Apprentice Wag	Apprent e Wages ges shall be the same a	N - Local 223 tice Base Wage 1 \$0.00	Health \$0.00	Pension \$0.00	Supplemental Unemployment	Total Rate	:
	Effective Date - 09/01/2024 Step percent 1 0 Notes: See Electrician Apprentice Telecom Apprentice Was Apprentice to Journeyworker I	Apprent e Wages ges shall be the same a	tice Base Wage 1 \$0.00 s the Electrician A	Health \$0.00 Apprentice Wa	Pension \$0.00	Supplemental Unemployment \$0.00	Total Rate \$0.00	÷)
	Effective Date - 09/01/2024 Step percent 1 0 Notes: See Electrician Apprentice Telecom Apprentice Wag	Apprent e Wages ges shall be the same a	tice Base Wage I \$0.00 s the Electrician A	Health \$0.00 Apprentice War	Pension \$0.00	Supplemental Unemployment \$0.00	Total Rate \$0.00	\$99.82
	Effective Date - 09/01/2024 Step percent 1 0 Notes: See Electrician Apprentice Telecom Apprentice Way Apprentice to Journeyworker I	Apprent e Wages ges shall be the same a	tice Base Wage 1 \$0.00 s the Electrician A	Health \$0.00 Apprentice Wa	Pension \$0.00	\$0.00 \$23.59 \$23.59	Total Rate \$0.00	÷)
	Effective Date - 09/01/2024 Step percent 1 0 Notes: See Electrician Apprentice Telecom Apprentice Way Apprentice to Journeyworker I	Apprent e Wages ges shall be the same a	tice Base Wage I \$0.00 s the Electrician A	Health \$0.00 Apprentice War	Pension \$0.00 ages \$11.49	Supplemental Unemployment \$0.00	Total Rate \$0.00	\$99.82
	Effective Date - 09/01/2024 Step percent 1 0 Notes: See Electrician Apprentice Telecom Apprentice Way Apprentice to Journeyworker I	Apprent e Wages ges shall be the same a	1N - Local 223 tice Base Wage 1 \$0.00 s the Electrician A 02/01/2025 08/01/2025	Health \$0.00 Apprentice Was \$64.74 \$66.89	Pension \$0.00 nges \$11.49 \$11.49	\$0.00 \$23.59 \$23.59	Total Rate \$0.00	\$99.82 \$101.97

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\$11.49

\$11.49

\$11.49

Apprentice Base Wage Health

\$32.37

\$38.84

\$45.32

Pension

\$23.59

\$23.59

\$23.59

Supplemental **Total Rate** Unemployment Supplemental Unemployment Total Rate \$67.45 \$0.00 \$73.92 \$0.00\$80.40 \$0.00

Apprentice -	TERRAZZO FINISHER - Local 3 Marble & Tile

02/01/2025

Effective Date -

percent

50

60

70

Step

1

2

3

	4	80	\$51.79	\$11.49	\$23.59	\$0.00	\$86.87	
	5	90	\$58.27	\$11.49	\$23.59	\$0.00	\$93.35	
	Effecti	ve Date - 08/01/2025				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$33.45	\$11.49	\$23.59	\$0.00	\$68.53	
	2	60	\$40.13	\$11.49	\$23.59	\$0.00	\$75.21	
	3	70	\$46.82	\$11.49	\$23.59	\$0.00	\$81.90	
	4	80	\$53.51	\$11.49	\$23.59	\$0.00	\$88.59	
	5	90	\$60.20	\$11.49	\$23.59	\$0.00	\$95.28	
	Notes:							
	İ						i	
	Appre	ntice to Journeyworker Ratio:1	:3					
EST BORING			12/01/2024	\$51.28	\$9.65	\$18.22	\$0.00	\$79.15
adukers - fuui	NDAIION .	AND MAKINE	06/01/2025	\$52.78	\$9.65	\$18.22	\$0.00	\$80.65
			12/01/2025	\$54.28	\$9.65	\$18.22	\$0.00	\$82.15
			06/01/2026	\$55.83	\$9.65	\$18.22	\$0.00	\$83.70
For apprentice	rates see ".	Apprentice- LABORER"	12/01/2026	\$57.33	\$9.65	\$18.22	\$0.00	\$85.20
EST BORING	B DRILL	ER HELPER	12/01/2024	\$47.07	\$9.65	\$18.22	\$0.00	\$74.94
ABORERS - FOU	NDATION .	AND MARINE	06/01/2025	\$48.57	\$9.65	\$18.22	\$0.00	\$76.44
			12/01/2025	\$50.07	\$9.65	\$18.22	\$0.00	\$77.94
			06/01/2026	\$51.62	\$9.65	\$18.22	\$0.00	\$79.49
			12/01/2026	\$53.12	\$9.65	\$18.22	\$0.00	\$80.99
		Apprentice- LABORER"						
ΓEST BORING LABORERS - FOU!			12/01/2024	\$46.95	\$9.65	\$18.22	\$0.00	\$74.82
			06/01/2025	\$48.45	\$9.65	\$18.22	\$0.00	\$76.32
			12/01/2025		\$9.65	\$18.22	\$0.00	\$77.82
			06/01/2026		\$9.65	\$18.22	\$0.00	\$79.37
For annuantica	rates see "	Apprentice- LABORER"	12/01/2026	\$53.00	\$9.65	\$18.22	\$0.00	\$80.87
		LE STEAM GENERATORS	10/01/202	0.52.40	015.55	¢1.6.50	¢0.00	#00.4
PERATING ENGL			12/01/2024		\$15.55	\$16.50	\$0.00	\$88.45
			06/01/2025		\$15.55	\$16.50	\$0.00	\$89.73
			12/01/2025		\$15.55	\$16.50	\$0.00	\$91.17
			06/01/2026		\$15.55	\$16.50	\$0.00	\$92.45
			12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TRAILERS FOR EARTH MOVING EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	01/01/2025	\$40.82	\$15.57	\$20.17	\$0.00	\$76.56
	06/01/2025	\$41.82	\$15.57	\$20.17	\$0.00	\$77.56
	12/01/2025	\$41.82	\$15.57	\$21.78	\$0.00	\$79.17
	01/01/2026	\$41.82	\$16.17	\$21.78	\$0.00	\$79.77
	06/01/2026	\$42.82	\$16.17	\$21.78	\$0.00	\$80.77
	12/01/2026	\$42.82	\$16.17	\$23.52	\$0.00	\$82.51
	01/01/2027	\$42.82	\$16.77	\$23.52	\$0.00	\$83.11
TUNNEL WORK - COMPRESSED AIR LABORERS (COMPRESSED AIR) For apprentice rates see "Apprentice- LABORER"	12/01/2024	\$59.18	\$9.65	\$19.00	\$0.00	\$87.83
	06/01/2025	\$60.68	\$9.65	\$19.00	\$0.00	\$89.33
	12/01/2025	\$62.18	\$9.65	\$19.00	\$0.00	\$90.83
	06/01/2026	\$63.73	\$9.65	\$19.00	\$0.00	\$92.38
	12/01/2026	\$65.23	\$9.65	\$19.00	\$0.00	\$93.88
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) LABORERS (COMPRESSED AIR)	12/01/2024	\$61.18	\$9.65	\$19.00	\$0.00	\$89.83
	06/01/2025	\$62.68	\$9.65	\$19.00	\$0.00	\$91.33
	12/01/2025	\$64.18	\$9.65	\$19.00	\$0.00	\$92.83
	06/01/2026	\$65.73	\$9.65	\$19.00	\$0.00	\$94.38
	12/01/2026	\$67.23	\$9.65	\$19.00	\$0.00	\$95.88
For apprentice rates see "Apprentice- LABORER" TUNNEL WORK - FREE AIR	12/01/2024	0-1-0-	**************************************	#10.00	ФО ОО	A= 0.00
LABORERS (FREE AIR TUNNEL)	12/01/2024	\$51.25	\$9.65	\$19.00	\$0.00	\$79.90
	06/01/2025	\$52.75	\$9.65	\$19.00	\$0.00	\$81.40
	12/01/2025	\$54.25	\$9.65	\$19.00	\$0.00	\$82.90
	06/01/2026	\$55.80	\$9.65	\$19.00	\$0.00	\$84.45
For apprentice rates see "Apprentice- LABORER"	12/01/2026	\$57.30	\$9.65	\$19.00	\$0.00	\$85.95
TUNNEL WORK - FREE AIR (HAZ. WASTE) LABORERS (FREE AIR TUNNEL)	12/01/2024	\$53.25	\$9.65	\$19.00	\$0.00	\$81.90
	06/01/2025	\$54.75	\$9.65	\$19.00	\$0.00	\$83.40
	12/01/2025	\$56.25	\$9.65	\$19.00	\$0.00	\$84.90
	06/01/2026	\$57.80	\$9.65	\$19.00	\$0.00	\$86.45
	12/01/2026	\$59.30	\$9.65	\$19.00	\$0.00	\$87.95
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	01/01/2025	\$40.24	\$15.57	\$20.17	\$0.00	\$75.98
	06/01/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$76.98
	12/01/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$78.59
	01/01/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$79.19
	06/01/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$80.19
	12/01/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$81.93
	01/01/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$82.53

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
WAGON DRILL OPERATOR LABORERS - ZONE 2	12/01/2024	\$40.61	\$9.65	\$17.70	\$0.00	\$67.96
	06/01/2025	\$42.00	\$9.65	\$17.70	\$0.00	\$69.35
	12/01/2025	\$43.38	\$9.65	\$17.70	\$0.00	\$70.73
	06/01/2026	\$44.82	\$9.65	\$17.70	\$0.00	\$72.17
	12/01/2026	\$46.26	\$9.65	\$17.70	\$0.00	\$73.61
	06/01/2027	\$47.71	\$9.65	\$17.70	\$0.00	\$75.06
	12/01/2027	\$49.16	\$9.65	\$17.70	\$0.00	\$76.51
	06/01/2028	\$50.66	\$9.65	\$17.70	\$0.00	\$78.01
	12/01/2028	\$52.16	\$9.65	\$17.70	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
WASTE WATER PUMP OPERATOR OPERATING ENGINEERS LOCAL 4	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER PLUMBERS & PIPEFITTERS LOCAL 51	08/26/2024	\$54.74	\$10.15	\$19.95	\$0.00	\$84.84
	08/25/2025	\$57.49	\$10.15	\$19.95	\$0.00	\$87.59
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER	'GASFITTER"					

Additional Apprentice Information:

All apprentices must be registered with the Division of Apprenticeship Training (DAS) in accordance with M.G.L. c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L. c. 149, §§ 26-27D. Apprentice ratios are established by DAS pursuant to M.G.L. c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements (CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate. Parties having questions regarding what ratio to use should contact DAS.

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SECTION 01010

SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Access to site.
 - 4. Work restrictions.
 - 5. Specification formats and drawing conventions.
 - 6. Storage and handling of materials.

1.3 PROJECT INFORMATION

- A. Project Identification: Project consists of beach access improvements at Great Hollow Beach.
 - 1. Project Location: Great Hollow Road, Truro, Massachusetts.
 - a. Includes adjacent areas within the Limit of Disturbance as shown on Drawings
- B. Owner Identification: Town of Truro, MA
- C. Engineer Identification: The Contract Documents were prepared for the Project by Fuss & O'Neill Inc.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of the Project includes furnishing and installation of composite timber and plastic staircase with helical piles, stabilization and restoration of areas disturbed by construction, all environmental controls, and other incidental work as depicted on the Drawings and specifications and as directed by the Engineer.

1.5 DEFINITIONS

- A. Furnish: Supply and deliver to the project site.
- B. Install: Place in position for service or use.

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C. Provide: Furnish and install, complete and ready for intended use.

1.6 SUBMITTALS

- A. Submit the following schedules in accordance with Paragraph 3.2 of this Section:
 - 1. Construction schedule
 - 2. Schedule of submittals/shop drawings

1.7 ACCESS TO SITE

- A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
- B. Use of Site: Limit use of Project site to areas within the contract Limits. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Limits: Confine construction operations to limits of disturbance as indicated on the Contract Drawings. The southern portion of the parking lot will be open during construction activities.
- C. The Contractor shall coordinate with and assist the Town as needed regarding parking lot closure, closure signage, and/or barricades, and protection of the public.
- D. Minimize damage to access routes, and restore damaged areas to their original condition or better.
- E. Remove and restore to original condition all signs, utilities and other improvements required to be relocated or affected for construction of the Work. Costs for such activity shall be borne by the Contractor unless otherwise indicated. Notify the Engineer, the Owner, and utilities of intended modification or disruption to the property prior to the start of construction and cooperate with them in the scheduling and performance of operations.
- F. Acquire necessary permits, authorizations and approvals for working in, on or from the right-ofway or easements owned by the Town of Truro and other abutters. The Contractor shall also secure all necessary permits for working on the site.
- G. If the Contractor, by direct negotiation and bargain with any land owner, lessee or tenant, has secured any right to use more space or greater privileges in the space provided by the Owner for purposes incidental to the performance of the Contract, shall upon request furnish to the Engineer proper evidence that such additional rights have been properly secured and assurance that no damage to or claim upon the Owner or Engineer will arise therefrom. Neither the Owner nor the Engineer shall be liable in any way for any expense incurred by the Contractor in securing any such right to use additional property.
- H. The Contractor shall be responsible for and reimburse the Owner and others for any and all losses, damage or expense which the Owner or those others may suffer, either directly or indirectly or through any claims of any person or party, for any trespass outside the spaces and rights of way provided by the Owner to the Contractor or any violation or disregard of the terms and conditions established for the use or occupancy of those rights or for negligence in the exercise of those rights.
 - 1. The Owner may retain or deduct from any sum or sums due or to become due to the

SUMMARY 01010 - 2

GREAT HOLLOW BEACH ACCESS IMPROVEMENTS TRURO, MA

Contractor such amount or amounts as may be proper to insure the Owner against loss or expense by reason of the failure of the Contractor to observe the limits and conditions of the rights-of-way, rights-of-access, easements, etc., provided by the Owner.

1.8 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public roads and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, unless otherwise indicated. Should access to the Site at other times be necessary, make arrangements with The Town of Truro.
- C. Existing Utility Interruptions: The Contractor shall be responsible for investigating and verifying the existence and location of underground utilities.
 - 1. Notify Owner not less than two days in advance of proposed utility interruptions.
 - 2. Obtain utility owner's written permission before proceeding with utility interruptions.
- D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption with Owner.
 - 1. Notify Owner not less than 2 days in advance of proposed disruptive operations.

1.9 STORAGE AND HANDLING OF MATERIALS

- A. At all times, handle and store materials and equipment to be incorporated in the work in a manner to prevent intrusion of foreign matter, warping, twisting, bending, breaking, and any injury, theft or damage of every description to the material or equipment.
- B. Upon delivery, promptly inspect shipments to assure that products comply with requirements, quantities are correct and products are undamaged. Packages, materials and equipment showing evidence of damage shall be rejected and replaced at no additional cost to the Owner.
- C. Store products in accordance with manufacturer's instructions, with seals and labels intact and legible. Provide access to products during storage for inspection.
 - If products are stored for an extended period of time, conduct periodic inspections to assure products are undamaged and are maintained under required conditions.
 - 2. Keep an inspection log indicating date and time of inspections. Note problems, if any.
- D. For exterior storage of fabricated products, place sloped supports beneath products to keep items from coming in contact with the ground. Cover products subject to deterioration with impervious sheet covering providing ventilation to avoid condensation.
- E. Store loose granular materials on solid surfaces in a well-drained area and prevent from mixing with foreign matter.

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F. Store excavated soils and other construction materials in non-wooded areas near excavations. Store synthetic materials off the ground (or otherwise) to prevent accumulation of dirt or grease, and in a position to prevent accumulation of standing water.

1.10 SITE CONDITIONS

- A. The utilities and structures at the site have been located primarily from limited field surveys and the locations as depicted on the Drawings are considered approximate as to size and location. There may be additional underground utilities and structures that are not shown on the Drawings, and it shall be the responsibility of the Contractor to locate all existing utilities and structures and to protect same from damage or harm. Restore utilities interfered with or damaged, at the expense of the Contractor, and to the satisfaction of its Owner.
- B. Ensure construction activities do not impact the activities or properties of the Town of Truro without prior coordination and consent from the Town.
- C. Immediately notify the Engineer upon encountering archaeological material, including "charcoal," "bone," "shell," "cultural objects" (e.g., fire cracked stones/stone flaking material), "middens," or any other artifacts or related items of historical significance.

1.11 DIG SAFE

- A. The Contractor shall be responsible for complying with all applicable Dig Safe rules and regulations.
- B. Contact Dig Safe at 1-888-344-7233 at least 72 hours prior to the start of construction (excluding weekends and holidays) to mark out the utility locations.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 GENERAL

- A. Perform construction during the times and seasons as set forth within the Contract Drawings, weather- and condition-permitting. Construction phasing requirements contained in the Contract Drawings must be adhered to in the Contractor's detailed construction schedule submitted to the Engineer, including installation of erosion and sedimentation controls.
- B. The Contractor shall provide its own detailed construction schedule to the Engineer prior to the initiation of Work.
 - 1. Deviation from Contractor's schedule will require the Contractor to submit notification of such change in schedule to the Engineer at least seven (7) days prior to the subject change. Such notification shall be accompanied by a revised project schedule and phasing drawing, if applicable.

3.2 ADMINISTRATIVE SUBMITTALS

- A. Do not commence portion of the Work requiring a submission until submission has been accepted by the Engineer.
- B. In addition to the submittals required by the various Technical Specifications, provide the following submittals within 10 days after the effective date of the Agreement:
 - 1. <u>Construction Schedule</u>. Submit a proposed schedule of construction (schedule of operations) to the Engineer.
 - a. Provide a bar-chart-type or Gantt-chart-type schedule that clearly indicates the start date and duration of specific construction activities. The Contractor shall not work on Saturday, Sunday, or Holidays without approval of the Engineer. Portions of the Work to be performed by subcontractors or utilities shall be clearly indicated as such.
 - b. Incorporate the erosion control provisions into the construction schedule.
 - c. Prepare scaled drawing clearly showing proposed construction corresponding to construction schedule.
 - d. No work shall be started until the schedule of construction is reviewed and approved by the Engineer.
 - e. Contract completion date shall not be changed by submission of a schedule, unless specifically authorized by Change Order approved by the Owner.
 - 2. <u>Schedule of Submittals/Shop Drawings</u>. The Contractor shall submit his proposed schedule of submittals to the Engineer.

3.3 PROJECT MEETINGS

- A. Pre-construction Conference/Meeting: Prior to the start of construction, a pre-construction conference shall be held between the Contractor and Engineer, Owner and other interested parties.
- B. Progress Meetings: During progress of the Work, meetings may be required in order that scheduling and overall job coordination can be maintained. The Contractor shall be required to attend these meetings throughout the project duration.

3.4 CONSTRUCTION LAYOUT

A. Verification: Before proceeding to lay out the Work, verify layout information shown on the Contract Drawings. If substantive discrepancies are discovered, notify Engineer prior to proceeding with the Work.

3.5 INSTALLATION

A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated. Complete work and install components in accordance with the Contract Documents.

3.6 PROGRESS CLEANING

A. General: Clean Project site and work areas daily. Enforce requirements strictly. Dispose of materials lawfully.

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- 1. Do not hold materials more than 7 days during normal weather or 3 days if the temperature is expected to rise above 80 degrees Fahrenheit.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
- D. Waste Disposal: Burying or burning waste materials on-site will not be permitted. Washing waste materials into sewers or waterways will not be permitted.

3.7 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Comply with supplier's written instructions for temperature and relative humidity, where applicable.

3.8 PERMITS

3.9 Obtain all required local permits required for performance of the work and to furnish temporary facilities, including but not limited to construction, dumpster and/or sanitary facility permits, if/as required by respective Town of Truro officials having jurisdiction.

3.10 CORRECTION OF THE WORK

- A. Repair or remove and replace defective construction. Restore damaged substrates and finishes.
 - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
 - 2. Correction of the work will not be compensated for.
- B. Restore permanent facilities used during construction to their specified condition.

3.11 REGULATORY COMPLIANCE

- A. All equipment operators and workers performing work at the proposed location shall hold the appropriate Commonwealth of Massachusetts licenses for their responsibilities.
- B. Contractor shall provide a 'Competent Person', as defined by the US Department of Labor Occupational Safety & Health Administration (OSHA), for the location of the proposed work.
- C. Contractor and all subcontractor and vendors working at the site shall have an OSHA ten (10) hour construction safety program for their on-site employees.
- D. All required licenses and/or certificates for work being performed shall be copied and supplied to the Engineer prior to beginning work by each contractor, subcontractor or vendor employee conducting work at the site. All required licenses and/or certificates for work being performed shall be in the possession of the person(s) while performing the work.
- E. The Contractor shall be solely responsible to conduct their operations in a manner that meets all local, state and federal regulations.

END OF SECTION

SECTION 01025

PAYMENT ITEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section describes the measurement and payment for the Work to be completed under each item in the Bid Form. The descriptions may not reference all of the associated Work. Work specified but not designated as a separate Bid item is considered incidental to all Bid items. The Contractor shall review all work associated with each work item and shall have no claim for being unfamiliar with the requirements of these specifications.
 - 1. All work items described herein, including in measurement and payment descriptions or otherwise, do not state all requirement of the work stated in the Contract Documents; all such descriptions shall be inclusive of all incidental work for respective items, as stated in the Contract Documents.
- B. Payment Procedures are described in the Contract Documents.

1.3 DEFINITIONS

- A. Payment Items: the Owner's distribution of the Contract Sum through listed work items, as outlined in this Section, reviewed, and accepted by the Engineer.
 - 1. Each item is specified to include a defined scope of services. The payment items have been established for the Owner's convenience only and, not all materials, labor, equipment, or services of a payment item are guaranteed to be listed or specified herein.
 - 2. Include costs associated with items of work required to complete the defined scope of services within the appropriately specified payment item.
 - 3. Payment items include all necessary products, materials, equipment, plus costs for delivery, handling, storage, installation, all applicable fees and taxes (where applicable), administrative over-site, tools, labor, incidentals, research and testing, overhead, and profit.
 - 4. Unit bid price items shall be paid only as accepted and where approved prior to the completion of the respective work.
 - 5. All work and associated costs described or inferred in the Contract Documents shall be included in the payment items described herein.
- B. Unit Price: An amount proposed by bidders, stated on the Bid Form, as a price per unit of measurement for materials or services identified in the Contract Documents.

PAYMENT ITEMS 01025 - 1

- C. Add/Deduct: An amount proposed by bidders, stated on Bid Form, as a price per unit of measurement for materials for add/deduct purposes only in variance from the stated estimated quantities.
- D. Lump Sum: When used as an item of payment, means complete payment for the work prescribed for that portion of the Work under the item, or all work prescribed in the Contract, as the case may be.
 - 1. Lump sum payment items are groupings of the Work as determined by the Owner only for the Owner's convenience. Such listings of payment items shall establish the minimum level of detail for the Schedule of Values.
- E. Provide: Procure, fabricate, sample/test, deliver, place/install, adjust, correct and replace if needed all products or materials to be incorporated into all temporary and permanent elements of the Work in accordance with the Contract Documents.
- F. Complete and In Place: When used in the measurement and payment provisions, means the completion of the contract item, including the fabrication, testing, reporting, furnishing, installation, adjustment and correction of all products and materials to be incorporated into the Work including all equipment, tools, labor, health and safety requirements, and work incidental thereto, in accordance with all provisions stated in the Contract Documents.

1.4 PROCEDURES

- A. Unit prices, add/deduct items and lump sum items include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: Refer to the Sections 1.5 herein for methods of measurement and payment.
- C. Notify Engineer at least 72-hours prior to the time at which necessary measurements must be taken. Notification must be in advance of obscuring pay item; do not proceed until such measurements have been taken in the presence of the Engineer.

1.5 DESCRIPTION OF BASE BID PAYMENT ITEMS

- A. The payment items listed below include references to Specification Sections of work to be completed under the payment item, however not all Sections of related work are guaranteed to be listed.
- B. Item No. 1 Public Access Structure
 - 1. Work associated with this item will be paid for at the stated price including respective portions of work under all specifications necessary to initiate Contractor's activities at the project site.
 - a. All or portions of the Contract Requirements and Division 1 specifications, as applicable.
 - b. Section 02465 Helical Foundation Piles
 - c. Section 06110 Exterior Rough Carpentry
 - d. Section 06150 Public Access Structure

PAYMENT ITEMS 01025 - 2

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- e. Includes, but is not limited to: All products, materials, equipment, tools, labor, and incidentals required to furnish and install a composite plastic and timber staircase with helical piles, including earth excavation, helical anchors, composite decking, wood framing (joists, stringers, hangers and misc. hardware, blocking, girders, posts, railing), mobilization, miscellaneous work and clean up, and all other items necessary to perform the work complete and in place.
- f. The Town will be responsible for demolition of the entire existing staircase.
- 2. Measurement: This item will not be measured for payment but will be pro-rated with the Contractor's progress of work as accepted by Engineer.
- 3. Payment: This item will be paid on a Lump Sum basis based on a percentage of completion as estimated from measurements made by the Contractor and accepted by the Engineer.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 GENERAL

A. Measurement: Notify Engineer at least 48-hours prior to the time at which necessary measurements must be taken. Notification must be in advance of obscuring pay item; do not proceed until such measurements have been taken in the presence of the Engineer.

END OF SECTION

PAYMENT ITEMS 01025 - 3

SECTION 01250

CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for handling and processing Contract modifications.

1.2 FIELD ORDER

A. Engineer will issue written supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Price or the Contract Time, on EJCDC Form C-942. A sample copy of a Field Order is included at the end of the Section.

1.3 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Engineer will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Price or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Proposal Requests issued by Engineer are for information only. Do not consider them instructions either to stop work in progress or to execute the proposed change.
 - 2. Within time specified in Proposal Request after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Price and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
- B. Contractor-Initiated Proposals: If latent or unforeseen conditions require modifications to the Contract, Contractor may propose changes by submitting a request for a change.
 - 1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Price and the Contract Time.

SECTION 01170

SPECIAL PROVISIONS

SCOPE OF WORK

The Work under this Contract consists of the construction of a new public access structure as described in the Contract Documents under a construction services contract with the Town of Truro.

All Work done under this Contract shall be in conformance with the Contract Documents. The General Conditions, Supplementary Conditions and Special Provisions shall take precedence over the General Requirements of the Standard Specifications and Drawings.

OSHA REQUIREMENT

Any employee found on the worksite without documentation of the successful completion of 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 shall be subject to immediate removal. OSHA certifications must be submitted with the certified payrolls for all workers during the first week they work on a project.

WORK SCHEDULE

The Contractor shall commence Work within ten (10) working days of receiving a Notice to proceed from a Town. If the Contractor cannot begin work within the ten (10) working days, the Town may order such services from such contractors as are available, and the Contractor shall reimburse that Town for all expenses incurred above the Contract Price.

Work is restricted to a normal eight-hour day, five-day week, with Contractor and all subcontractors working on the same shift.

No Work shall be performed on Saturdays, Sundays or holidays or on the day before or the day after a long weekend which involves a holiday without prior approval by the Town.

PROGRESS OF WORK

The Contractor shall promptly start and continue actual construction work under this Contract with the necessary equipment to properly execute and complete this Contract in the specified time. No cessation of Contractor's operations will be allowed without the approval of the Engineer. The rate of progress shall be satisfactory to that Town and the Engineer. The Contractor shall furnish to the Engineer a schedule for the Work prior to the start of construction.

CONTRACT DOCUMENTS IN THE FIELD

The Contractor shall keep a copy of the Contract Documents at the work site at all times while work is being performed and said copy is to be available to those in charge of work.

POLICE SERVICES

The Town shall provide all Town police services at no cost to the Contractor to direct traffic when such protection is required by that Town's Police Department. The Contractor shall be solely responsible for contacting and scheduling police services with the Police Department. If the Contractor must cancel police services, he must do so within the time limits set by the Police Department. If the Contractor does not cancel police services within the time limits, then Contractor shall be responsible to promptly pay the minimum required amount.

PUBLIC SAFETY AND CONVENIENCE

The Contractor shall be required without additional compensation to provide safe and convenient access to all abutters during the prosecution of the Work.

No excavation shall be left open during non-working hours.

MSDS sheets and information shall be available on site and copies submitted to a Town as requested.

NECESSARY ACCESS FOR FIRE APPARATUS AND OTHER EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE POLICE AND FIRE DEPARTMENTS AT ALL TIMES REGARDING ACCESS.

For the protection of life and property, all backfill operations shall follow closely behind completed work. The Contractor shall insure that no excavation be left open, unguarded, or water filled during any period of time when work is not actually in progress. It is the purpose and intent that all excavations and backfill, including consolidation operations, and temporary surfacing within an area be accomplished expeditiously before proceeding to other work areas.

Contractor shall comply with all applicable Laws, regulations and Guidelines of any public body (example: OSHA, DIGSAFE, MASSDOT Work Zone Safety Guidelines, Police) having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary signs/ safeguards for such safety and protection at no extra cost to the Owner. See General Conditions also.

CLEANUP

Cleanup shall be completed on a daily basis. At the end of each working period, the Contractor shall remove all equipment from the traveled way. The Contractor shall ensure that all safety marking and warning devices are satisfactorily in place prior to leaving the work site.

During the course of the Work, the Contractor shall keep the site of his operations in as clean and neat condition as is possible. It shall dispose of all residue resulting from the construction work and, at the conclusion of the work, he shall remove and haul away any surplus excavation, broken pavement, lumber, equipment, temporary structures, and any other refuse remaining from the construction operations, and shall leave the entire site of the work in a neat and orderly condition.

Sweeping and cleaning of surfaces beyond the limits of the Project to clean up material caused by spillage or vehicular tracking during the various phases of the work shall be considered as incidental to the Work being performed under the Contract and there will be no additional compensation.

EMERGENCY CONTACTS

The Contractor shall maintain a 24-hour, 7-day a week telephone service and a local facility to handle emergency requirements such as settled trenches, clogged drains, rain damage, work zone safety issues, etc. A list of personnel (minimum of two) and their telephone numbers shall be submitted to the Engineer, the Public Works Director and to the local Police and Fire Departments. This requirement shall apply during the entire length of the Project, or service for the Town where work is being completed. This list shall be submitted on the Contractor's letterhead and shall state that should an emergency arise during the implementation of this Project or Service, these people are to be contacted. The Contractor shall submit this letter to the Engineer prior to initiating construction. The Public Works Director for the Town or his designee has the right to determine whether or not an emergency exists and to require Contractor to promptly resolve the emergency at no cost to that Town. If Contractor cannot respond in a timely manner as determined by the Public Works Director, the Town has the right to complete the necessary work and to bill Contractor for that work.

DIGSAFE

The Contractor shall notify "Mass. DIG SAFE" and the Local Water Department or District and procure a DIG SAFE number of each location prior to disturbing ground in any way.

"DIG-SAFE" Call Center: Telephone 1-888-344-7233

Commonwealth Electric has a policy regarding the location of electric utilities. Dig-Safe can no longer be relied upon to locate electric utilities that are "privately" owned. This can include electric cables located in Public ways that run from utility poles to buildings. It is therefore incumbent upon Contractor to ascertain if any electric cables are located in any area prior to excavation. This will be done at Contractor's expense.

The Contractor shall make his own investigation to assure that no damage to existing structures, drainage lines, traffic signal conduits, and other utilities will occur as a result of his operations

PROTECTION OF UTILITIES AND PROPERTY

The Contractor, in constructing or installing facilities alongside or near sanitary sewers, storm drains, water or gas pipes, electric or telephone conduits, poles, sidewalks, walls, vaults or other structures shall, at his expense, sustain them securely in place, cooperating with the officers and agents of the various utility companies and municipal departments which control them, so that the services of these structures shall be maintained. The Contractor shall also be responsible for the repair or replacement, at his own expense, of any damage to such structures caused by his acts or neglect, and shall leave them in the same condition as they existed prior to commencement of the Work.

In case of damage to utilities, the Contractor shall promptly notify the utility owner and shall, if requested by the Engineer, furnish labor and equipment to work temporarily under the owner's direction in providing access to the utility. Pipes or other structures damaged by the operation of the Contractor may be repaired by the municipality or by utility owner which suffers the loss. The cost of such repairs shall be borne by the Contractor, without compensation therefor.

If, as the Work progresses, it is found that any of the utility structures are so placed as to render it impracticable, in the judgment of the Engineer, to do the Work called for under this Contract, the Contractor shall protect and maintain the services in such utilities and structures and the Engineer will, as soon thereafter as reasonable, cause the position of the utilities to be changed or take such other actions deemed suitable and proper.

If live service connections are to be interrupted by excavations of any kind, the Contractor shall not break the service until new services are provided. Abandoned services shall be plugged off or otherwise made secure.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals for doing all the work involved in protecting or repairing property as specified in this section, shall be considered included in the prices paid for the various Contract items of Work and no additional compensation will be allowed therefor.

DISPOSAL OF SURPLUS MATERIALS

All materials not required or needed for use on the Project, and not required to be removed and stacked, shall become the property of the CONTRACTOR and shall be removed from the site and legally disposed of. No separate payment will be made for this Work, but all costs in connection therewith shall be included in the prices bid for various Contract items.

PROPERTY BOUNDS

Any bounds or markers flagged by the Town and disturbed by the Contractor shall be replaced utilizing the services of a Registered Land Surveyor. The cost of replacing flagged bounds or markers disturbed by the Contractor's operations shall be at the Contractor's expense.

END OF SECTION

- 2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
- 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
- 4. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
- 5. Comply with requirements in Division 1 Section "Product Requirements" if the proposed change requires substitution of one product or system for product or system specified.

1.4 CHANGE ORDER PROCEDURES

A. On Owner's approval of a Proposal Request, Engineer will issue a Change Order for signatures of Owner and Contractor on EJCDC Document C-941.

1.5 WORK CHANGE DIRECTIVE

- A. Work Change Directive: Engineer may issue a Work Change Directive on <u>EJCDC</u>

 <u>Document C-940</u>. Work Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 - 1. Work Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Price or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Work Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 ATTACHED FORMS

- 1. Proposal Request.
- 2. Field Order (EJCDC Form C-942).
- 3. Work Change Directive (EJCDC Form C-940).
- 4. Change Order (EJCDC Form C-941).

END OF SECTION

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PROPOSAL REQUEST		Proposal Request No.
Project:	Owner:	Owner's Contract No.:
Contract:		Date of Contract:
Contractor:		Engineer's Project No.:
	tation for changes in the Cont Contract Documents describe	tract Price or Contract Time incidental to the ed herein.
Description:		
w l	. 1	
ttachments: (List documents	supporting description)	
Ву:		

ENGINEER

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Field Order				
No				
Date of Issuance:		Effective _ Date:		
Project:	Owner:		Owner's Contract No.:	
Contract:			Date of Contract:	
Contractor:			Engineer's Project No.:	
	in the Work without c ct Price or Contract Ti	hanges in mes is req		
(Specification Section(s)) Description:		(Draw	ving(s) / Detail(s))	
•				

EJCDC No. C-942 (2002 Edition)

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Prepared by the Engineers' Joint Contract Documents Committee and endorsed by the Associated General Contractors of America and the Construction Specifications Institute.

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Attachments:		
	Engineer:	
Receipt Acknowledged by (Contractor)	:	Date:
C O		<u> </u>

Copy to Owner

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GREAT HOLLOW BEACH ACCESS IMPROVEMENTS TRURO, MA

Work Change	e Directive				
No					
Date of Issuance:		Effective Date:			
Project:	Owner:	Owner	r's Contract No.:		
Contract:	I.	Date o	f Contract:		
Contractor:		Engine	eer's Project No.:		
You are direc	ted to proceed promptly with the	following change(s):			
Item No.	Description				
Attachments	(list documents supporting chang	ge):			
Purpose for V	Work Change Directive:				
Autho	orization for Work described herein t	to proceed on the basis of C	ost of the Work due to:		
□N	onagreement on pricing of proposed	d change.			
□N	ecessity to expedite Work described	herein prior to agreeing to o	changes on Contract. Price and		
Estimated ch	ange in Contract Price and Contr	act Times:			
Contract Price		Contract Time	(increase/		
	decrease)		decrease)		
		days			
If the change is authorization.	nvolves an increase, the estimated ar	mounts are not to be exceeded	ed without further		
	d for Approval by Engineer:		Date		
Authorized for	r Owner by:		Date		
Accepted for C	Contractor by:		Date		
Approved by I	Funding Agency (if applicable):		Date:		
	(2002 Edition) ngineers' Joint Contract Documents Commit al Contractors of America and the Construction		Page 1 of 1		

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Change Order

GREAT HOLLOW BEACH ACCESS IMPROVEMENTS TRURO, MA

No			
Date of Issuance:	Effective Date:		
Project: C	Owner's Contract No.:		
Contract:	Date of Contract:		
Contractor:	Engineer's Project No.:		
The Contract Documents are modified Description:	ed as follows upon execution of this Change Order:		
Attachments: (List documents supportin	ng change):		
CHANGE IN CONTRACT PRICE: Original Contract Price:	CHANGE IN CONTRACT TIMES: Original Contract		
\$	Substantial completion (days or date):Ready for final payment (days or date):		
[Increase] [Decrease] from previously approved Change Orders Noto No:	[Increase] [Decrease] from previously approved Change Orders No		
Contract Price prior to this Change Orde			
[Increase] [Decrease] of this Change Ord	[Increase] [Decrease] of this Change Order: Substantial completion (days or date): Ready for final payment (days or date):		
\$	Ready for final payment (days of date).		

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GREAT HOLLOW BEACH ACCESS IMPROVEMENTS TRURO, MA

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By:	Ву:	By:
	Owner (Authorized Signature)	Contractor (Authorized Signature)
Date:	Date:	Date:
Approved by Funding Agency (if _		Date:
Change Order Instructions		

A. GENERAL INFORMATION

This document was developed to provide a uniform format for handling contract changes that affect Contract Price or Contract Times. Changes that have been initiated by a Work Change Directive must be incorporated into a subsequent Change Order if they affect Price or Times.

Changes that affect Contract Price or Contract Times should be promptly covered by a Change Order. The practice of accumulating Change Orders to reduce the administrative burden may lead to unnecessary disputes.

If Milestones have been listed in the Agreement, any effect of a Change Order thereon should be addressed.

For supplemental instructions and minor changes not involving a change in the Contract Price or Contract Times, a Field Order should be used.

B. COMPLETING THE CHANGE ORDER FORM

Engineer normally initiates the form, including a description of the changes involved and attachments based upon documents and proposals submitted by Contractor, or requests from Owner, or both.

Once Engineer has completed and signed the form, all copies should be sent to Owner or Contractor for approval, depending on whether the Change Order is a true order to the Contractor or the formalization of a negotiated agreement for a previously performed change. After approval by one contracting party, all copies should be sent to the other party for approval. Engineer should make distribution of executed copies after approval by both parties.

If a change only applies to price or to times, cross out the part of the tabulation that does not apply.

SECTION 01290

PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.

1.2 SCHEDULE OF VALUES

Coordination: Coordinate preparation of the Schedule of Values for Bid items with preparation of Contractor's Construction Schedule.

- 1. Correlate line items in the Schedule of Values with other required administrative forms and schedules, including the following, if required by the Owner:
 - a. Application for Payment forms with Continuation Sheets (AIA Form G703).
 - b. Submittals/Shop Drawings Schedule.
- 2. Submit three copies of the Schedule of Values to Engineer 10 days after effective date of Agreement. No payment will be made to Contractor before Schedule of Values has been submitted and accepted by Engineer.
- B. Format and Content: Use the Project Manual table of contents as a guide to establish line items for the Schedule of Values. Provide at least one line item for each Specification Section.
 - 1. Identification: Include the following Project identification on the Schedule of Values:
 - a. Project name and location.
 - b. Name of Engineer.
 - c. Engineer's project number:
 - d. Contractor's name and address.
 - e. Date of submittal.
 - 2. Arrange the Schedule of Values in tabular form with separate columns to indicate the following for each item listed:
 - a. Related Specification Section or Division.
 - b. Description of the Work.
 - c. Change Orders (numbers) that affect value.
 - d. Dollar value.

- 1) Percentage of the Contract Price to nearest one-hundredth percent, adjusted to total 100 percent.
- 3. Provide a breakdown of the Contract Price in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with the Project Manual table of contents. Provide several line items for principal subcontract amounts, where appropriate.
- 4. Round amounts to nearest whole dollar; total shall equal the Contract Price.
- 5. Provide a separate line item in the Schedule of Values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off-site. Include evidence of insurance or bonded warehousing if required.
- 6. Where items are not broken down sufficiently to accurately determine the value of Work completed, Engineer will estimate the value of the Work completed and deduct a conservative value that will allow the Owner to easily complete the Work with the unpaid balance.
 - a. When the required detail in the Schedule of Values is not provided by the Contractor, the Contractor agrees to accept the Engineer's determination.
- 7. Each item in the Schedule of Values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the Schedule of Values or distributed as general overhead expense, at Contractor's option.
- 8. Schedule Updating: Update and resubmit the Schedule of Values before the next Applications for Payment when Change Orders or Work Change Directives result in a change in the Contract Sum.

1.3 SCHEDULE OF PAYMENTS

- A. Coordination: Coordinate preparation of the Schedule of Payments with preparation of Contractor's Construction Schedule and Schedule of Values.
 - 1. Such schedule shall be broken down by monthly pay period through Project completion and reflect items listed in the Schedule of Values.
 - 2. Submit three copies of the Schedule of Payments to Engineer 10 days after effective date of Agreement.

1.4 APPLICATIONS FOR PAYMENT

A. Each Application for Payment shall be consistent with previous applications and payments as certified by Engineer and paid for by Owner.

- 1. Initial/Monthly Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- B. Payment Application Times: The date for each progress payment is the 15th day of each month. The period covered by each Application for Payment starts on the day following the end of the preceding period and ends 15 days before the date for each progress payment.
- C. Payment Application Forms: AIA Document G 702 or an approved equal.
- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Engineer will return incomplete applications without action.
 - 1. Entries shall match data on the Schedule of Values and Contractor's Construction Schedule. Use updated schedules if revisions were made.
 - 2. Include amounts of Change Orders and Work Change Directives issued before last day of construction period covered by application.
 - 3. Itemized data and format provided on continuation sheets shall include schedules, line items, values as stipulated in the Schedule of Values as accepted by Owner.
 - a. Continuation sheets shall include a total list of all scheduled component items of work with item number and scheduled dollar value for each item. Dollar values to be included in each column for each scheduled line item when Work has been performed or products stored. Round off values to nearest dollar or as may be specified for Schedule of Values.
 - b. List each Change Order executed prior to date of submission at end of continuation sheets. List by Change Order number and description as to original component item of Work.
- E. Transmittal: Submit three (3) signed and notarized original copies of each Application for Payment to Engineer with accompanying release of lien and certified payroll forms.
 - 1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
 - 2. Submit Applications to Engineer by means ensuring receipt within 24 hours.
 - 3. Product Ownership: All Work covered by Progress Payments shall, at the time of payment, become the property of the Owner.
- F. Ownership: All Work covered by Progress Payments shall, at the time of payment, become the property of Owner.
- G. Processing: With each Application for Payment the Contractor shall certify such Application for Payment represents a just estimate of costs reimbursable to Contractor under terms of the Contract and shall certify there are no Mechanic's or Materialmen's

Liens outstanding at the date of that Application for Payment, that all due and payable bills with respect to the Work have been paid to date or shall be paid from the proceeds of that Application for Payment, that there is no known basis for the filing of any Mechanic's or Materialmen's Lien against the Surety in connection with the Work, that Waivers and Bills Paid Affidavit forms from all Subcontractors and Materialmen have been, or will be, obtained in the form agreeable to the Owner, and that amount of the contract remaining to be expended is sufficient to complete the project.

H. Waivers and Mechanics Liens

- 1. Monthly Applications for Payment shall include Waivers of Mechanic's Liens and Claims for all Work included in the period of construction covered by the Application for Payment and the previous month's Application. Waivers of Liens and Claims from Subcontractors or Subcontractors and suppliers shall include the period of construction covered by the Application for Payment, the total amount paid prior to and including the previous month's Application.
- 2. Partial Waivers of Liens shall be submitted on each item of work for the amount requested, prior to deduction for retainage, for each item.
- 3. Contractor shall submit final or full Waivers of Liens and Claims for completed items of work shown on the monthly Application for Payment.
- 4. Owner reserves the right to designate which entities involved in the Work must submit Waivers of Liens.
- 5. The Contractor's final Application for Payment shall be submitted with, or preceded by final Waivers from every entity involved with the performance of work, supplying of materials or the providing of professional services covered by the Application who could lawfully be entitled to a Lien.
- 6. Waivers of Liens shall be provided on forms, and executed in a manner acceptable to the Owner.

I. Prevailing Wages

- 1. Monthly Applications for Payment shall include certified prevailing wage forms for all Contractor's applicable employees, and applicable subcontractor employees, corresponding to the payment period for the subject Application for Payment.
- 2. The Owner reserves the right to withhold payment for missing, incomplete or inaccurate certified payroll forms.
- 3. It is the Contractor's sole responsibility to provide full and complete forms for its employees and subcontractors corresponding to the payment period and respective work items addressed by the application. Failure to comply with this requirement shall not be cause for any cessation of work.
- J. Initial/Monthly Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following, which shall be updated for Monthly Applications for Payment, as applicable:

- 1. Schedule of Values.
- 2. Contractor's Construction Schedule (preliminary if not final), updated monthly.
- 3. Schedule of unit prices.
- 4. Submittals Schedule (preliminary if not final).
- 5. Name of Contractor Superintendent.
- 6. Copies of authorizations and licenses from governing authorities for performance of work.
- 7. Any material stored off site must carry additional insurance (All Risk Ryder) stating Owner as insured. All material is to be inspected by Engineer personnel <u>before billing</u> can be approved. Bill of Sale and receipts for items being billed at <u>cost</u> only are required and 25% retainage will be held for off-site stored materials. Paperwork must accompany request two weeks prior to billing to insure adequate time to schedule inspection.
- 8. Contractor's Health and Safety Plan (HASP).
- 9. Certificates of insurance and insurance policies.
- K. Application for Payment at Substantial Completion: After issuing the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
 - 1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
 - 2. Submit Warranties and maintenance agreements, as applicable.
 - 3. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- L. Final Payment Application: Submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
 - 1. Evidence of completion of Project closeout requirements.
 - 2. Completion of items specified by the Engineer for correction after Substantial Completion.
 - 3. Required Project Records including permit drawings, as constructed drawings both on hard copy and in electronic format.
 - 4. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
 - 5. Updated final statement, accounting for final changes to the Contract Sum.
 - 6. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
 - 7. AIA Document G706A, "Contractor's Affidavit of Release of Liens."

- 8. AIA Document G707, "Consent of Surety to Final Payment."
- 9. List of unsettled claims, if any.
- 10. Evidence that claims have been settled, if any.
- 11. Final, liquidated damages settlement statement, if any.
- 12. Removal of all temporary facilities and services
- 13. Removal of all surplus materials, rubbish, and similar elements.

1.5 CHANGE PROCEDURES

A. See Section 01250 - Contract Modification Procedures.

1.6 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Engineer, it is not practical to remove and replace the Work, the Engineer will direct an appropriate remedy or adjust payment.
- C. The defective Work may remain, but the unit sum will be adjusted to a new sum at the discretion of the Engineer.
- D. The defective Work will be partially repaired to the instructions of the Engineer, and the unit sum will be adjusted to a new sum at the discretion of the Engineer.
- E. The individual Specification Sections may modify these options or may identify a specific formula or percentage sum reduction.
- F. The authority of the Engineer to assess the defect and identify a payment adjustment, is final.
- G. Non-Payment for Rejected Products: Payment will not be made for rejected products for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines and levels of the required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected products.

GREAT HOLLOW BEACH ACCESS IMPROVEMENTS
TRURO, MA

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01310 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. General coordination procedures.
 - 2. Coordination Drawings.
 - 3. Project meetings.
- B. Each contractor shall participate in coordination requirements. Certain areas of responsibility are assigned to a specific contractor.

C. Related Requirements:

- 1. Division 1 Section "Execution Requirements" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
- 2. Division 1 Section "Closeout Procedures" for coordinating closeout of the Contract.

1.3 COORDINATION

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. If necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts

and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:

- 1. Preparation of Contractor's Construction Schedule.
- 2. Preparation of the Schedule of Values.
- 3. Installation and removal of temporary facilities and controls.
- 4. Delivery and processing of submittals.
- 5. Progress meetings.
- 6. Pre-installation conferences.
- 7. Project closeout activities.
- D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.
- E. Staff Names: Within five days of starting construction operations, submit a list of principal staff assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including cellular and office telephone numbers. Provide names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to Project.
 - 1. Post copies of list in Project meeting room, in temporary field office, and by each temporary telephone. Insert special requirements that exceed requirements contained in the General and Supplementary Conditions for superintendent and assistants.

1.4 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
 - 1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
 - a. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
 - b. Coordinate the addition of trade-specific information to the coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
 - c. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
 - d. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.
 - e. Show location and size of access doors required for access to concealed dampers, valves, and other controls.

- f. Indicate required installation sequences.
- g. Indicate dimensions shown on the Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternate sketches to Engineer indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.

1.5 PROJECT MEETINGS

- A. General: Engineer with schedule and conduct meetings and conferences at Project site unless otherwise indicated.
 - 1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Engineer of and conflicts with scheduled meeting dates and times.
 - 2. Agenda: The Engineer will prepare the meeting agenda.
 - 3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved and distribute the meeting minutes to everyone concerned within 10 days.
- B. Preconstruction Conference: Engineer will schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner, Contractor and Engineer.
 - 1. Attendees: Authorized representatives of Owner, Engineer, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 2. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Critical work sequencing.
 - c. Permitting conditions and requirements.
 - d. Designation of key personnel and their duties.
 - e. Lines of communications.
 - f. Procedures for processing field decisions and Change Orders.
 - g. Procedures for processing Applications for Payment.
 - h. Distribution of the Contract Documents.
 - i. Submittal procedures.
 - j. Preparation of record documents.
 - k. Use of the premises.
 - 1. Responsibility for temporary facilities and controls.
 - m. Parking availability.
 - n. Office, work, and storage areas.
 - o. Equipment deliveries and priorities.

GREAT HOLLOW BEACH ACCESS IMPROVEMENTS TRURO, MA

- p. Security.
- q. Progress cleaning.
- r. Working hours.
- 3. Execution of Owner-Contractor Agreement including executed bonds and insurance certificates may be completed immediately prior to pre-construction conference.
- C. Progress Meetings: Engineer will conduct progress meetings at monthly intervals.
 - Attendees: In addition to representatives of Owner and Engineer, the Contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Interface requirements.
 - 2) Sequence of operations.
 - 3) Status of submittals.
 - 4) Deliveries.
 - 5) Access.
 - 6) Site utilization.
 - 7) Temporary facilities and controls.
 - 8) Progress cleaning.
 - 9) Quality and work standards.
 - 10) Field observations.
 - 11) Change Orders.
 - 12) Documentation of information for payment requests.
 - 3. Reporting: Distribute minutes of the meeting to each party present and to parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report.
 - a. Schedule Updating: Revise Contractor's Construction Schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

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PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01330

SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Contract Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other miscellaneous submittals.
- B. Related Sections include the following:
 - 1. Division 1 Section "Closeout Procedures" for submitting warranties Project Record Documents and operation and maintenance manuals.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information that requires Engineer's responsive action.
- B. Informational Submittals: Written information that does not require Engineer's approval. Submittals may be rejected for not complying with requirements.
- C. Addresses: Include mailing address, telephone number, facsimile number, and e-mail address.

1.4 SUBMITTAL PROCEDURES

- A. Master List Submittal: Submit a master list of the required submittals with a proposed date for each item to be submitted. Show the date submittal was sent, days since submittal was sent, status of submittal, date submittal was received in return, and any date associated with resubmittals. Up date master list with each submission and response. Issue copy of master list at least monthly to the Architect.
- B. General: Electronic copies of CAD Drawings of the Contract Drawings will not be provided by Engineer for Contractor's use in preparing submittals, unless requested to by the Contractor.
- C. Method of Transmitting Submittals: Electronic transmission of submittals will be allowed. A distribution list will be agreed upon at the Pre-Construction Meeting.
- D. Clarity: Provide neat, clean and legible printed materials that can be easily reproduced by normal photocopying or blueprinting process. Illegible submittals will be returned unreviewed.
- E. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

- 1. Coordinate each submittal with fabrication, purchasing, delivery, other submittals, and related activities that require sequential activity.
- Coordinate transmittal of different types of submittals for related parts of the Work so
 processing will not be delayed because of need to review submittals concurrently for
 coordination.
 - a. Engineer reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- F. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Engineer's receipt of submittal.
 - Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if
 processing must be delayed to permit coordination with subsequent submittals. Engineer
 will advise Contractor when a submittal being processed must be delayed for coordination.
 - 2. Concurrent Review: Where concurrent review of submittals by Engineer's consultants, the Owner, or other parties is required, allow 30 days for initial review of each submittal.
 - 3. If intermediate submittal is necessary, process it in same manner as initial submittal.
 - 4. Allow 15 calendar days for processing each resubmittal.
 - 5. No extension of the Contract Time or claims for delay will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing.
- G. Identification: Place a permanent label or title block on each submittal for identification.
 - 1. Indicate name of firm or entity that prepared each submittal on label or title block.
 - 2. Provide a space approximately 4 by 5 inches on label or beside title block to record Contractor's review and approval markings and action taken by Engineer.
 - 3. Include the following information on label for processing and recording action taken:
 - a. Project name.
 - b. Date.
 - c. Name and address of Engineer.
 - d. Name and address of Contractor.
 - e. Name and address of subcontractor.
 - f. Name and address of supplier including name and telephone number of contact.
 - g. Name of manufacturer including name and telephone number of contact.
 - h. Unique identifier, including revision number.
 - i. Number and title of appropriate Specification Section.
 - j. Drawing number and detail references, as appropriate.
 - k. Other necessary identification.
- H. Deviations: Highlight, encircle, or otherwise identify deviations from the Contract Documents on submittals. Provide list or narrative of deviations on Submittal Transmittal form.

- I. Additional Copies: Unless revisions are required for final submittal, and unless Engineer observes noncompliance with provisions of the Contract Documents, initial submittal may serve as final submittal.
 - 1. Submit an electronic or one hard copy of submittal to concurrent reviewer in addition to electronic copy to Engineer.
 - 2. Additional copies submitted for maintenance manuals will be marked with action taken and will be returned.
- J. Transmittal: Package each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Engineer will return submittals, without review received from sources other than Contractor.
 - 1. On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Engineer on previous submittals, and deviations from requirements of the Contract Documents, including minor variations and limitations. Include the same label information as the related submittal.
 - 2. Include Contractor's certification stating that information submitted complies with requirements of the Contract Documents.
 - 3. Transmittal Form: Use sample form at end of Section.
- K. Distribution: Furnish required electronic or hard copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- L. Use for Construction: Use only final submittals with mark indicating action taken by Engineer in connection with construction.

1.5 QUALITY ASSURANCE

A. Where "Standard Specifications" is used, it shall mean the most recent version of the "Massachusetts Highway Department Standard Specifications for Highways and Bridges, 2024 English Edition", and Supplemental Specifications (September 30, 2024).

PART 2 - PRODUCTS

2.1 ACTION SUBMITTALS

- A. General: Prepare and submit Action Submittals required by individual Specification Sections.
 - 1. Number of Copies: Submit an electronic copy of each submittal along with number of hard copies specified by Engineer, unless otherwise indicated. Mark up and retain one returned copy as a Record Document.
 - a. Submit a preliminary single copy of each submittal where selection of options, color, pattern, texture, or similar characteristics is required. Engineer will return submittal with options selected.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.

- 1. If information must be specially prepared for submittal because standard printed data are not suitable for use, submit as Shop Drawings, not as Product Data.
- 2. Mark each copy of each submittal to show which products and options are applicable.
- 3. Include the following information, as applicable:
 - a. Manufacturer's written recommendations.
 - b. Manufacturer's product specifications.
 - c. Manufacturer's installation instructions.
 - d. Standard color charts.
 - e. Manufacturer's catalog cuts.
 - f. Standard product operating and maintenance manuals.
 - g. Compliance with recognized trade association standards.
 - h. Notation of coordination requirements.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
 - 1. Preparation: Include the following information, as applicable:
 - a. Dimensions.
 - b. Identification of products.
 - c. Fabrication and installation drawings.
 - d. Roughing-in and setting diagrams.
 - e. Shopwork manufacturing instructions.
 - f. Templates and patterns.
 - g. Schedules.
 - h. Design calculations.
 - i. Compliance with specified standards.
 - j. Notation of coordination requirements.
 - k. Notation of dimensions established by field measurement.
 - 2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches but no larger than 30 by 40 inches.
- D. Samples: Prepare physical units of materials or products, including the following:
 - 1. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Include cost and wearing capability of each color and pattern.
 - 2. Preparation: Mount, display, or package Samples in manner specified to facilitate review of qualities indicated. Prepare Samples to match Engineer's sample where so indicated. Attach label on unexposed side that includes the following:
 - a. Generic description of Sample including type, quality or grade designation.

- b. Product name or name of manufacturer.
- c. Sample source.
- d. Name of Project.
- e. Name of Contractor or subcontractor.
- 3. Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, provide the following:
 - a. Size limitations.
 - b. Compliance with recognized standards.
 - c. Availability.
 - d. Delivery time.
- 4. Submit Samples for review of kind, color, pattern, and texture for a final check of these characteristics with other elements and for a comparison of these characteristics between final submittal and actual component as delivered and installed.
 - a. If variation in color, pattern, texture, or other characteristic is inherent in the product represented by a Sample, submit at least two sets of paired units that show approximate limits of the variations.
 - b. Refer to individual Specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, detail's of assembly, connections, operation, and similar construction characteristics.
- 5. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
 - b. Samples not incorporated into the Work, or otherwise not designated as the Owner's property, are the property of Contractor.
- E. Product Schedule or List: Prepare a written summary indicating types of products required for the Work and their intended location.
- F. Delegated-Design Submittal: Comply with requirements in Division 1 Section "Quality Requirements."
- G. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
 - 1. Name, address, and telephone number of entity performing subcontract or supplying products.
 - 2. Number and title of related Specification Section(s) covered by subcontract.
 - 3. Drawing number and detail references, as appropriate, covered by subcontract.

2.2 INFORMATIONAL SUBMITTALS

- A. General: Prepare and submit Informational Submittals required by other Specification Sections.
 - 1. Number of Copies: Submit an electronic copy of each submittal, unless otherwise indicated.
 - 2. Certificates and Certifications: Provide a notarized statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - 3. Inspection Reports: Comply with requirements in Division 1 Section "Quality Requirements."
- B. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, names and addresses of engineers and the Owner's, and other information specified.
- C. Installer Certificates: Prepare written statements on manufacturer's letterhead certifying that Installer complies with requirements and, where required, is authorized for this specific Project.
- D. Manufacturer Certificates: Prepare written statements on manufacturer's letterhead certifying that manufacturer complies with requirements. Include evidence of manufacturing experience where required.
- E. Material or Product Certificates: Prepare written statements on manufacturer's letterhead certifying that material or product complies with requirements. Use attached sample Material Certificate, or provide certificate that includes the following information.
 - 1. Project to which material is consigned.
 - 2. Name of contractor receiving material.
 - 3. Item number and description of material.
 - 4. Quantity of material represented by the certificate.
 - 5. Means of identifying consignment including label, marking, or lot number.
 - 6. Date and method of shipment.
 - 7. Signature of Supplier's authorized agent.
 - 8. Notarization of certificate.
- F. Material Test Reports: The Owner will be doing all of the material testing.
- G. Product Test Reports: The Owner will be doing all of the product testing.
- H. Field Test Reports: The Owner will be doing all of the field testing.

- I. Manufacturer's Instructions: Prepare written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment (e.g. for beaver deceiving fencing and access hatches for box culvert structures). Include name of product and name, address, and telephone number of manufacturer. Include the following, as applicable:
 - 1. Preparation for installation.
 - 2. Sequence of installation or erection.
 - 3. Required installation tolerances.
 - 4. Required adjustments.
 - 5. Recommendations for cleaning, maintenance, and protection.
- J. Insurance Certificates and Bonds: Prepare written information indicating current status of insurance or bonding coverage. Include name of entity covered by insurance or bond, limits of coverage, amounts of deductibles, if any, and term of the coverage.
- K. Maintenance Data: Prepare written and graphic instructions and procedures for operation and normal maintenance of products and equipment. Comply with requirements in Division 1 Section "Closeout Procedures."

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Review each submittal and check for compliance with the Contract Documents. Note corrections and field dimensions. Mark each copy of each submittal with approval stamp before submitting to Engineer.
- B. Approval Stamp: Stamp each submittal with a uniform approval stamp.
- C. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents. See attached Submittal Transmittal for sample of statement.

3.2 ENGINEER'S ACTION

- A. General: Engineer will not review submittals that do not bear Contractor's approval stamp and submittal transmittal and will return them without action.
 - 1. Engineer may elect not to review partial or incomplete submittals and will return such submittals with no action taken.

- B. Action Submittals: Engineer will review each submittal, make marks to indicate corrections or modifications required, and return it. Engineer will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action taken, as follows:
 - 1. Furnish as Submitted: Submittal appears to conform to Contract Documents and Contractor may proceed with ordering and installation.
 - 2. Furnish as Noted: Same as "Furnish as Submitted" accept that the Contractor must comply with modifications or notes added to the submittal by the Engineer.
 - 3. Rejected: Submittal must be revised and resubmitted.
- C. Informational Submittals: Engineer will review each submittal and will not return it, or will reject and return it if it does not comply with requirements. Engineer will forward each submittal to appropriate party.
- D. Submittals not required by the Contract Documents will not be reviewed and may be discarded.

END OF SECTION

FUSS & O'NEILL 20210668.A10

То:	Boston,	oad St, 6 , MA 02	oth Floor	D, CCP	From:	
PROJ.	ECT:				SUBMITTAL NO.:	
J					_	(List Section No., Article No., Paragraph)
					_	(Revision: 1st, 2nd, 3rd, etc.)
Transı	mitted her	ewith fo	or review a	nd comment are th	ne following:	
Cop	oies I	Owg.	No.	Description		
MAN	UFACTU	RER /	SUPPLIEI	₹		
N	Name: _					
A	Address:					
Т	Гelephone	No.:			Facsimile No.:	
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measu other	rements, of submission the enclo	constructions and t	ction criter the work or	ia, materials, catalo f other trades and o	g numbers and similar contractors, and that to	ve determined and verified all field lata, coordinated the submittal with the best of my knowledge and ents, except for the following
BY:						
Signat	ure:				Date:	
Title:						

FUSS & O'NEILL 20210668.A10

SAMPLE	MATERIALS CERTIFICAT	E SAMPLE
Submit on Manufact	urer's letterhead)	
		Date:
WE HEREBY CERT	TIFY THAT	
	(Description, Kind of Material, P.	roduct Name, Model No.)
FURNISHED TO		
	(Name of Contractor)	(Prime or Subcontractor)
FOR USE ON		
_	(Project Name)	
OWNER		
	(Project Owner)	
IDENTIFIED BY:	,	
	(Label, Marking, Seal No., Consignment, or W	Vaybill No.)
SHIPPED VIA:	(,,,,,,	2,222 2.09
	(Method of Shipment, Car No., Truck No.)	
SHIPPED ON:	DELIVERE	ED ON:
PROJECT IN ALL F CONTROL OF RAV SPECIFICATIONS,	JIREMENTS OF THE CONTRACT DOCUM RESPECTS. PROCESSING, PRODUCT TEST W MATERIALS ARE IN CONFORMANCE W DRAWINGS AND STANDARDS OF ARTIC PLY WITH THE FOLLOWING STANDARD	I'ING AND INSPECTION WITH APPLICABLE CLES FURNISHED. ARTICLES
	ments pertinent to this certificate and not submi- rsigned for a period of not less than 3 years from	
	Name of	Manufacturer)
	(Authorize	ed Representative's Signature)
	(Title)	

FUSS & O'NEILL 20210668.A10

SAMPLE EQUIPMEN	NT RECORD SHEET	SAMPLE	
PROJECT:		(list Section No., Article No., and Paragraph)	
		(Revision: 1st, 2nd, 3rd, etc.)	
EQUIPMENT MANUFACTURER	SERV.	SERVICE REPRESENTATIVE	
	_		
ГҮРЕ			
MODEL NO.	Motor Size		
SERIAL NO.	Volts	Amps	
CAPACITY at	Phase	Cycles RPS	
SPECIAL NOTES AND REMARKS:			

SECTION 01400

QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing services will be completed by the Owner.

1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and ensure that proposed construction complies with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that completed construction complies with requirements. Services do not include contract enforcement activities performed by Engineer.
- C. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.

1.4 DELEGATED DESIGN

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Engineer.

1.5 SUBMITTALS

A. Qualification Data: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority. The Contractor shall provide a current organizational chart including names, telephone numbers and current certifications of personnel responsible for the Quality Control Program, testing, inspection, etc. on the project at the Pre-Construction Meeting. All tests performed shall be

- under the supervision of certified personnel or it may result in nonpayment, delay and/or reduction in payment for the material of concern.
- B. Delegated-Design Submittal: In addition to Shop Drawings, Product Data, and other required submittals, submit a statement, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional, indicating that the products and systems are in compliance with performance and design criteria indicated. Include list of codes, loads, and other factors used in performing these services.
- C. Schedule of Inspections: Prepare in tabular form and include the following:
 - 1. Specification Section number and title.
 - 2. Description of test and inspection.
 - 3. Identification of applicable standards.
 - 4. Identification of test and inspection methods.
 - 5. Number of tests and inspections required.
 - 6. Time schedule or time span for tests and inspections.
 - 7. Entity responsible for performing tests and inspections.
 - 8. Requirements for obtaining samples.
 - 9. Unique characteristics of each quality-control service.
- D. Permits, Licenses, and Certificates: For the Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.6 QUALITY ASSURANCE

- A. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- B. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- C. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- D. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing

engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or products that are similar to those indicated for this Project in material, design, and extent.

1.7 QUALITY CONTROL

- A. Owner's Responsibilities: Owner will engage a qualified testing agency to perform these services.
- B. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing.
- C. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
 - 1. Access to the Work.
 - 2. Incidental labor and facilities necessary to facilitate tests and inspections, at site or at source of products, including storage and curing of test samples.
 - 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 - 4. Facilities for storage and field-curing of test samples.
 - 5. Delivery of samples to testing agencies.
 - 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 - Security and protection for samples and for testing and inspecting equipment at Project site.
- D. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and quality-control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
 - 1. Schedule times for tests, inspections, obtaining samples, and similar activities.

PART 2 - PRODUCTS (Not used)

PART 3 - EXECUTION

3.1 GENERAL

A. The Contractor shall coordinate with the Owner about scheduling for all material testing and sequencing to avoid the necessity of removing and replacing construction work to accommodate inspections and tests. The Contractor is responsible coordinating with the Owner for scheduling times for inspections, testing, taking samples, and similar activities and shall be responsible for ensuring all tests are performed in accordance with the Contract

Documents and the most recent version The Commonwealth of Massachusetts Standard Specifications for Highways and Bridges and all appendices, latest edition and the supplemental specifications.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, the Contractor shall repair any damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Sections of these Specifications. Restore patched areas and extend restoration into adjoining areas in a manner that eliminates evidence of patching.
 - 2. Repair items of work where testing indicates that the work does not meet requirements specified herein and retest at no cost to the Owner.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.
- D. If testing, inspection and/or approval reveal that portions of the work fail and/or do not comply with the Contract Documents, all cost for the correction and re-testing of the work shall be borne by the Contractor.

END OF SECTION

SECTION 01420

REFERENCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 DEFINITIONS

- A. General: Basic Contract definitions are included in the Conditions of the Contract.
- B. "Approved": When used to convey Engineer's action on Contractor's submittals, applications, and requests, "approved" is limited to Engineer's duties and responsibilities as stated in the Conditions of the Contract.
- C. "Directed": A command or instruction by Engineer. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."
- D. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."
- E. "Regulations": Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.
- F. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
- G. "Install": Operations at Project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.
- H. "Provide": Furnish and install, complete and ready for the intended use.
- I. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.

1.3 INDUSTRY STANDARDS

- A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
- B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.

- C. Copies of Standards: Each entity engaged in construction on Project should be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - 1. Where copies of standards are needed to perform a required construction activity, obtain copies directly from publication source.

1.4 ABBREVIATIONS AND ACRONYMS

- A. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Thomson Gale's "Encyclopedia of Associations" or in Columbia Books' "National Trade & Professional Associations of the U.S."
- B. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

AA	Aluminum Association, Inc. (The) www.aluminum.org	(703) 358-2960
AAADM	American Association of Automatic Door Manufacturers www.aaadm.com	(216) 241-7333
AABC	Associated Air Balance Council www.aabchq.com	(202) 737-0202
AAMA	American Architectural Manufacturers Association www.aamanet.org	(847) 303-5664
AASHTO	American Association of State Highway and Transportation Officials www.transportation.org	(202) 624-5800
AATCC	American Association of Textile Chemists and Colorists www.aatcc.org	(919) 549-8141
ABAA	Air Barrier Association of America www.airbarrier.org	(866) 956-5888
ABMA	American Bearing Manufacturers Association www.abma-dc.org	(202) 367-1155
ACI	American Concrete Institute www.concrete.org	(248) 848-3700
ACPA	American Concrete Pipe Association www.concrete-pipe.org	(972) 506-7216

AEIC	Association of Edison Illuminating Companies, Inc. (The) www.aeic.org	(205) 257-2530
AF&PA	American Forest & Paper Association www.afandpa.org	(800) 878-8878 (202) 463-2700
AGA	American Gas Association www.aga.org	(202) 824-7000
AGC	Associated General Contractors of America (The) www.agc.org	(703) 548-3118
AHA	American Hardboard Association (Now part of CPA)	
AHAM	Association of Home Appliance Manufacturers www.aham.org	(202) 872-5955
AI	Asphalt Institute www.asphaltinstitute.org	(859) 288-4960
AIA	American Institute of Architects (The) www.aia.org	(800) 242-3837 (202) 626-7300
AISC	American Institute of Steel Construction www.aisc.org	(800) 644-2400 (312) 670-2400
AISI	American Iron and Steel Institute www.steel.org	(202) 452-7100
AITC	American Institute of Timber Construction www.aitc-glulam.org	(303) 792-9559
ALCA	Associated Landscape Contractors of America (Now PLANET - Professional Landcare Network)	
ALSC	American Lumber Standard Committee, Incorporated www.alsc.org	(301) 972-1700
AMCA	Air Movement and Control Association International, Inc. www.amca.org	(847) 394-0150
ANSI	American National Standards Institute www.ansi.org	(202) 293-8020
AOSA	Association of Official Seed Analysts, Inc. www.aosaseed.com	(405) 780-7372
APA	Architectural Precast Association www.archprecast.org	(239) 454-6989

APA	APA - The Engineered Wood Association www.apawood.org	(253) 565-6600
APA EWS	APA - The Engineered Wood Association; Engineered Wood Systems (See APA - The Engineered Wood Association)	
API	American Petroleum Institute www.api.org	(202) 682-8000
ARI	Air-Conditioning & Refrigeration Institute www.ari.org	(703) 524-8800
ARMA	Asphalt Roofing Manufacturers Association www.asphaltroofing.org	(202) 207-0917
ASCE	American Society of Civil Engineers www.asce.org	(800) 548-2723 (703) 295-6300
ASCE/SEI	American Society of Civil Engineers/Structural Engineering Institute (See ASCE)	
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers www.ashrae.org	(800) 527-4723 (404) 636-8400
ASME	ASME International (American Society of Mechanical Engineers International) www.asme.org	(800) 843-2763 (973) 882-1170
ASSE	American Society of Sanitary Engineering www.asse-plumbing.org	(440) 835-3040
ASTM	ASTM International (American Society for Testing and Materials International) www.astm.org	(610) 832-9500
AWCI	Association of the Wall and Ceiling Industry www.awci.org	(703) 534-8300
AWCMA	American Window Covering Manufacturers Association (Now WCMA)	
AWI	Architectural Woodwork Institute www.awinet.org	(571) 323-3636
AWPA	American Wood Protection Association (Formerly: American Wood Preservers' Association) www.awpa.com	(205) 733-4077

AWS	American Welding Society www.aws.org	(800) 443-9353 (305) 443-9353
AWWA	American Water Works Association www.awwa.org	(800) 926-7337 (303) 794-7711
ВНМА	Builders Hardware Manufacturers Association www.buildershardware.com	(212) 297-2122
BIA	Brick Industry Association (The) www.bia.org	(703) 620-0010
BICSI	BICSI, Inc. www.bicsi.org	(800) 242-7405 (813) 979-1991
BIFMA	BIFMA International (Business and Institutional Furniture Manufacturer's Association International) www.bifma.com	(616) 285-3963
BISSC	Baking Industry Sanitation Standards Committee www.bissc.org	(866) 342-4772
BWF	Badminton World Federation (Formerly: IBF - International Badminton Federation) www.internationalbadminton.org	6-03-9283 7155
CCC	Carpet Cushion Council www.carpetcushion.org	(610) 527-3880
CDA	Copper Development Association www.copper.org	(800) 232-3282 (212) 251-7200
CEA	Canadian Electricity Association www.canelect.ca	(613) 230-9263
CEA	Consumer Electronics Association www.ce.org	(866) 858-1555 (703) 907-7600
CFFA	Chemical Fabrics & Film Association, Inc. www.chemicalfabricsandfilm.com	(216) 241-7333
CGA	Compressed Gas Association www.cganet.com	(703) 788-2700
CIMA	Cellulose Insulation Manufacturers Association www.cellulose.org	(888) 881-2462 (937) 222-2462
CISCA	Ceilings & Interior Systems Construction Association www.cisca.org	(630) 584-1919

CISPI	Cast Iron Soil Pipe Institute www.cispi.org	(423) 892-0137
CLFMI	Chain Link Fence Manufacturers Institute www.chainlinkinfo.org	(301) 596-2583
CRRC	Cool Roof Rating Council www.coolroofs.org	(866) 465-2523 (510) 485-7175
СРА	Composite Panel Association www.pbmdf.com	(301) 670-0604
СРРА	Corrugated Polyethylene Pipe Association www.cppa-info.org	(800) 510-2772 (202) 462-9607
CRI	Carpet and Rug Institute (The) www.carpet-rug.com	(800) 882-8846 (706) 278-3176
CRSI	Concrete Reinforcing Steel Institute www.crsi.org	(847) 517-1200
CSA	Canadian Standards Association	(800) 463-6727 (416) 747-4000
CSA	CSA International (Formerly: IAS - International Approval Services) www.csa-international.org	(866) 797-4272 (416) 747-4000
CSI	Cast Stone Institute www.caststone.org	(717) 272-3744
CSI	Construction Specifications Institute (The) www.csinet.org	(800) 689-2900 (703) 684-0300
CSSB	Cedar Shake & Shingle Bureau www.cedarbureau.org	(604) 820-7700
СТІ	Cooling Technology Institute (Formerly: Cooling Tower Institute) www.cti.org	(281) 583-4087
DHI	Door and Hardware Institute www.dhi.org	(703) 222-2010
EIA	Electronic Industries Alliance www.eia.org	(703) 907-7500
EIMA	EIFS Industry Members Association www.eima.com	(800) 294-3462 (770) 968-7945

EJCDC	Engineers Joint Contract Documents Committee www.ejdc.org	(703) 295-5000
EJMA	Expansion Joint Manufacturers Association, Inc. www.ejma.org	(914) 332-0040
ESD	ESD Association (Electrostatic Discharge Association) www.esda.org	(315) 339-6937
ETL SEMCO	Intertek ETL SEMCO (Formerly: ITS - Intertek Testing Service NA) www.intertek.com	(800) 967-5352
FIBA	Federation Internationale de Basketball (The International Basketball Federation) www.fiba.com	41 22 545 00 00
FIVB	Federation Internationale de Volleyball (The International Volleyball Federation) www.fivb.ch	41 21 345 35 35
FM Approvals	FM Approvals LLC www.fmglobal.com	(781) 762-4300
FM Global	FM Global (Formerly: FMG - FM Global) www.fmglobal.com	(401) 275-3000
FMRC	Factory Mutual Research (Now FM Global)	
FRSA	Florida Roofing, Sheet Metal & Air Conditioning Contractors Association, Inc. www.floridaroof.com	(407) 671-3772
FSA	Fluid Sealing Association www.fluidsealing.com	(610) 971-4850
FSC	Forest Stewardship Council www.fsc.org	49 228 367 66 0
GA	Gypsum Association www.gypsum.org	(202) 289-5440
GANA	Glass Association of North America www.glasswebsite.com	(785) 271-0208
GRI	(Part of GSI)	

GS	Green Seal www.greenseal.org	(202) 872-6400
GSI	Geosynthetic Institute www.geosynthetic-institute.org	(610) 522-8440
HI	Hydraulic Institute www.pumps.org	(973) 267-9700
HI	Hydronics Institute www.gamanet.org	(908) 464-8200
HMMA	Hollow Metal Manufacturers Association (Part of NAAMM)	
HPVA	Hardwood Plywood & Veneer Association www.hpva.org	(703) 435-2900
HPW	H. P. White Laboratory, Inc. www.hpwhite.com	(410) 838-6550
IAS	International Approval Services (Now CSA International)	
IBF	International Badminton Federation (Now BWF)	
ICEA	Insulated Cable Engineers Association, Inc. www.icea.net	(770) 830-0369
ICRI	International Concrete Repair Institute, Inc. www.icri.org	(847) 827-0830
IEC	International Electrotechnical Commission www.iec.ch	41 22 919 02 11
IEEE	Institute of Electrical and Electronics Engineers, Inc. (The) www.ieee.org	(212) 419-7900
IESNA	Illuminating Engineering Society of North America www.iesna.org	(212) 248-5000
IEST	Institute of Environmental Sciences and Technology www.iest.org	(847) 255-1561
IGCC	Insulating Glass Certification Council www.igcc.org	(315) 646-2234
IGMA	Insulating Glass Manufacturers Alliance www.igmaonline.org	(613) 233-1510

ILI	Indiana Limestone Institute of America, Inc. www.iliai.com	(812) 275-4426
ISO	International Organization for Standardization www.iso.ch	41 22 749 01 11
	Available from ANSI www.ansi.org	(202) 293-8020
ISSFA	International Solid Surface Fabricators Association www.issfa.net	(877) 464-7732 (702) 567-8150
ITS	Intertek Testing Service NA (Now ETL SEMCO)	
ITU	International Telecommunication Union www.itu.int/home	41 22 730 51 11
KCMA	Kitchen Cabinet Manufacturers Association www.kcma.org	(703) 264-1690
LMA	Laminating Materials Association (Now part of CPA)	
LPI	Lightning Protection Institute www.lightning.org	(800) 488-6864
MBMA	Metal Building Manufacturers Association www.mbma.com	(216) 241-7333
MFMA	Maple Flooring Manufacturers Association, Inc. www.maplefloor.org	(888) 480-9138
MFMA	Metal Framing Manufacturers Association, Inc. www.metalframingmfg.org	(312) 644-6610
MH	Material Handling (Now MHIA)	
MHIA	Material Handling Industry of America www.mhia.org	(800) 345-1815 (704) 676-1190
MIA	Marble Institute of America www.marble-institute.com	(440) 250-9222
MPI	Master Painters Institute www.paintinfo.com	(888) 674-8937 (604) 298-7578
MSS	Manufacturers Standardization Society of The Valve and Fittings Industry Inc. – www.mss-hq.com	(703) 281-6613

NAAMM	National Association of Architectural Metal Manufacturers www.naamm.org	(630) 942-6591
NACE	NACE International (National Association of Corrosion Engineers International) www.nace.org	(800) 797-6623 (281) 228-6200
NADCA	National Air Duct Cleaners Association www.nadca.com	(202) 737-2926
NAGWS	National Association for Girls and Women in Sport	(800) 213-7193, ext. 453
	www.aahperd.org/nagws/	
NAIMA	North American Insulation Manufacturers Association www.naima.org	(703) 684-0084
NBGQA	National Building Granite Quarries Association, Inc. www.nbgqa.com	(800) 557-2848
NCAA	National Collegiate Athletic Association (The) www.ncaa.org	(317) 917-6222
NCMA	National Concrete Masonry Association www.ncma.org	(703) 713-1900
NCPI	National Clay Pipe Institute www.ncpi.org	(262) 248-9094
NCTA	National Cable & Telecommunications Association www.ncta.com	(202) 775-2300
NEBB	National Environmental Balancing Bureau www.nebb.org	(301) 977-3698
NECA	National Electrical Contractors Association www.necanet.org	(301) 657-3110
NeLMA	Northeastern Lumber Manufacturers' Association www.nelma.org	(207) 829-6901
NEMA	National Electrical Manufacturers Association www.nema.org	(703) 841-3200
NETA	InterNational Electrical Testing Association www.netaworld.org	(888) 300-6382 (269) 488-6382
NFHS	National Federation of State High School Associations www.nfhs.org	(317) 972-6900

NFPA	NFPA (National Fire Protection Association) www.nfpa.org	(800) 344-3555 (617) 770-3000
NFRC	National Fenestration Rating Council www.nfrc.org	(301) 589-1776
NGA	National Glass Association www.glass.org	(866) 342-5642 (703) 442-4890
NHLA	National Hardwood Lumber Association www.natlhardwood.org	(800) 933-0318 (901) 377-1818
NLGA	National Lumber Grades Authority www.nlga.org	(604) 524-2393
NOFMA	NOFMA: The Wood Flooring Manufacturers Association (Formerly: National Oak Flooring Manufacturers Association) www.nofma.com	(901) 526-5016
NOMMA	National Ornamental & Miscellaneous Metals Association www.nomma.org	(888) 516-8585
NRCA	National Roofing Contractors Association www.nrca.net	(800) 323-9545 (847) 299-9070
NRMCA	National Ready Mixed Concrete Association www.nrmca.org	(888) 846-7622 (301) 587-1400
NSF	NSF International (National Sanitation Foundation International) www.nsf.org	(800) 673-6275 (734) 769-8010
NSSGA	National Stone, Sand & Gravel Association www.nssga.org	(800) 342-1415 (703) 525-8788
NTMA	National Terrazzo & Mosaic Association, Inc. (The) www.ntma.com	(800) 323-9736 (540) 751-0930
NTRMA	National Tile Roofing Manufacturers Association (Now TRI)	
NWWDA	National Wood Window and Door Association (Now WDMA)	
OPL	Omega Point Laboratories, Inc. (Now ITS)	
PCI	Precast/Prestressed Concrete Institute www.pci.org	(312) 786-0300

PDCA	Painting & Decorating Contractors of America www.pdca.com	(800) 332-7322 (314) 514-7322
PDI	Plumbing & Drainage Institute www.pdionline.org	(800) 589-8956 (978) 557-0720
PGI	PVC Geomembrane Institute http://pgi-tp.ce.uiuc.edu	(217) 333-3929
PLANET	Professional Landcare Network (Formerly: ACLA - Associated Landscape Contractors of America) www.landcarenetwork.org	(800) 395-2522 (703) 736-9666
PTI	Post-Tensioning Institute www.post-tensioning.org	(602) 870-7540
RCSC	Research Council on Structural Connections www.boltcouncil.org	
RFCI	Resilient Floor Covering Institute www.rfci.com	(301) 340-8580
RIS	Redwood Inspection Service www.redwoodinspection.com	(888) 225-7339 (415) 382-0662
SAE	SAE International www.sae.org	(877) 606-7323 (724) 776-4841
SDI	Steel Deck Institute www.sdi.org	(847) 458-4647
SDI	Steel Door Institute www.steeldoor.org	(440) 899-0010
SEFA	Scientific Equipment and Furniture Association www.sefalabs.com	(877) 294-5424 (516) 294-5424
SEI/ASCE	Structural Engineering Institute/American Society of Civil Engineers – (See ASCE)	
SGCC	Safety Glazing Certification Council www.sgcc.org	(315) 646-2234
SIA	Security Industry Association www.siaonline.org	(866) 817-8888 (703) 683-2075
SIGMA	Sealed Insulating Glass Manufacturers Association (Now IGMA)	
SJI	Steel Joist Institute www.steeljoist.org	(843) 626-1995

SMA	Screen Manufacturers Association www.smacentral.org	(561) 533-0991
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association www.smacna.org	(703) 803-2980
SMPTE	Society of Motion Picture and Television Engineers www.smpte.org	(914) 761-1100
SPFA	Spray Polyurethane Foam Alliance (Formerly: SPI/SPFD - The Society of the Plastics Industry, Inc.; Spray Polyurethane Foam Division) - www.sprayfoam.org	(800) 523-6154
SPIB	Southern Pine Inspection Bureau (The) www.spib.org	(850) 434-2611
SPRI	Single Ply Roofing Industry www.spri.org	(781) 647-7026
SSINA	Specialty Steel Industry of North America www.ssina.com	(800) 982-0355 (202) 342-8630
SSPC	SSPC: The Society for Protective Coatings www.sspc.org	(877) 281-7772 (412) 281-2331
STI	Steel Tank Institute www.steeltank.com	(847) 438-8265
SWI	Steel Window Institute www.steelwindows.com	(216) 241-7333
SWRI	Sealant, Waterproofing, & Restoration Institute www.swrionline.org	(816) 472-7974
TCA	Tile Council of America, Inc. (Now TCNA)	
TCNA	Tile Council of North America, Inc. www.tileusa.com	(864) 646-8453
TIA/EIA	Telecommunications Industry Association/Electronic Industries Alliance - www.tiaonline.org	(703) 907-7700
TMS	The Masonry Society www.masonrysociety.org	(303) 939-9700
TPI	Truss Plate Institute, Inc. www.tpinst.org	(703) 683-1010

TPI	Turfgrass Producers International www.turfgrasssod.org	(800) 405-8873 (847) 649-5555
TRI	Tile Roofing Institute www.tileroofing.org	(312) 670-4177
UL	Underwriters Laboratories Inc. www.ul.com	(877) 854-3577 (847) 272-8800
UNI	Uni-Bell PVC Pipe Association www.uni-bell.org	(972) 243-3902
USAV	USA Volleyball www.usavolleyball.org	(888) 786-5539 (719) 228-6800
USGBC	U.S. Green Building Council www.usgbc.org	(800) 795-1747
USITT	United States Institute for Theatre Technology, Inc. www.usitt.org	(800) 938-7488 (315) 463-6463
WASTEC	Waste Equipment Technology Association www.wastec.org	(800) 424-2869 (202) 244-4700
WCLIB	West Coast Lumber Inspection Bureau www.wclib.org	(800) 283-1486 (503) 639-0651
WCMA	Window Covering Manufacturers Association www.wcmanet.org	(212) 297-2122
WCSC	Window Covering Safety Council (Formerly: WCMA - Window Covering Manufacturers Association) - www.windowcoverings.org	(800) 506-4636 (212) 297-2109
WDMA	Window & Door Manufacturers Association (Formerly: NWWDA - National Wood Window and Door Association) - www.wdma.com	(800) 223-2301 (847) 299-5200
WI	Woodwork Institute (Formerly: WIC - Woodwork Institute of California) - www.wicnet.org	(916) 372-9943
WIC	Woodwork Institute of California (Now WI)	
WMMPA	Wood Moulding & Millwork Producers Association www.wmmpa.com	(800) 550-7889 (530) 661-9591
WSRCA	Western States Roofing Contractors Association www.wsrca.com	(800) 725-0333 (650) 570-5441

WWPA	Western Wood Products Association	(503) 224-3930
	www.wwpa.org	

C. Code Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

IAPMO	International Association of Plumbing and Mechanical Officials www.iapmo.org	(909) 472-4100
ICC	International Code Council www.iccsafe.org	(888) 422-7233
ICC-ES	ICC Evaluation Service, Inc. www.icc-es.org	(800) 423-6587 (562) 699-0543
UBC	Uniform Building Code (See ICC)	

D. Federal Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

CE	Army Corps of Engineers www.usace.army.mil	(202) 761-0011
CPSC	Consumer Product Safety Commission www.cpsc.gov	(800) 638-2772 (301) 504-7923
DOC	Department of Commerce www.commerce.gov	(202) 482-2000
DOD	Department of Defense http://.dodssp.daps.dla.mil	(215) 697-6257
DOE	Department of Energy www.energy.gov	(202) 586-9220
EPA	Environmental Protection Agency www.epa.gov	(202) 272-0167
FAA	Federal Aviation Administration www.faa.gov	(866) 835-5322
FCC	Federal Communications Commission www.fcc.gov	(888) 225-5322
FDA	Food and Drug Administration www.fda.gov	(888) 463-6332

GSA	General Services Administration www.gsa.gov	(800) 488-3111
HUD	Department of Housing and Urban Development www.hud.gov	(202) 708-1112
LBL	Lawrence Berkeley National Laboratory www.lbl.gov	(510) 486-4000
NCHR	National Cooperative Highway Research Program (See TRB)	
NIST	National Institute of Standards and Technology www.nist.gov	(301) 975-6478
OSHA	Occupational Safety & Health Administration www.osha.gov	(800) 321-6742 (202) 693-1999
PBS	Public Buildings Service (See GSA)	
PHS	Office of Public Health and Science www.osophs.dhhs.gov/ophs	(202) 690-7694
RUS	Rural Utilities Service (See USDA)	(202) 720-9540
SD	State Department www.state.gov	(202) 647-4000
TRB	Transportation Research Board http://gulliver.trb.org	(202) 334-2934
USDA	Department of Agriculture www.usda.gov	(202) 720-2791
USPS	Postal Service www.usps.com	(202) 268-2000

E. Standards and Regulations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the standards and regulations in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

ADAAG	Americans with Disabilities Act (ADA)	(800) 872-2253
	Architectural Barriers Act (ABA)	(202) 272-0080
	Accessibility Guidelines for Buildings and Facilities	
	Available from U.S. Access Board	
	www.access-board.gov	

CFR	Code of Federal Regulations Available from Government Printing Office www.gpoaccess.gov/cfr/index.html	(866) 512-1800 (202) 512-1800
DOD	Department of Defense Military Specifications and Standards Available from Department of Defense Single Stock Point http://dodssp.daps.dla.mil	(215) 697-2664
DSCC	Defense Supply Center Columbus (See FS)	
FED-STD	Federal Standard (See FS)	
FS	Federal Specification Available from Department of Defense Single Stock Point http://dodssp.daps.dla.mil	(215) 697-2664
	Available from Defense Standardization Program www.dps.dla.mil	
	Available from General Services Administration www.gsa.gov	(202) 619-8925
	Available from National Institute of Building Sciences www.wbdg.org/ccb	(202) 289-7800
FTMS	Federal Test Method Standard (See FS)	
MIL	(See MILSPEC)	
MIL-STD	(See MILSPEC)	
MILSPEC	Military Specification and Standards Available from Department of Defense Single Stock Point http://dodssp.daps.dla.mil	(215) 697-2664
UFAS	Uniform Federal Accessibility Standards Available from Access Board www.access-board.gov	(800) 872-2253 (202) 272-0080
State	Government Agencies: Where abbreviations and acronyms are used in	Specifications or

F. State Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

CBHF State of California, Department of Consumer Affairs Bureau of Home	(800) 952-5210
Furnishings and Thermal Insulation	
www.dca.ca.gov/bhfti	(916) 574-2041

CCR	California Code of Regulations www.calregs.com	(916) 323-6815
CPUC	California Public Utilities Commission www.cpuc.ca.gov	(415) 703-2782
TFS	Texas Forest Service Forest Resource Development http://txforestservice.tamu.edu	(979) 458-6650

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01450

REGULATORY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 CODES, AUTHORITIES, REGULATORY AGENCIES, AND INDUSTRY REFERENCES

- A. The Contractor shall be solely responsible to conduct their operations in a manner that meets all local, state and federal regulations including, but not limited to, Town of Truro. MA DEP, USEPA, OSHA and labor and equipment licensing requirements.
- B. Where references are made on Drawings or Specifications to codes, they shall be considered an integral part of the Contract Documents as minimum standards. Nothing contained in the Contract Documents shall be so construed as to be in conflict with any law, bylaw or regulation of the municipal, state, federal or other authorities having jurisdiction.
- C. Perform Work in compliance with the following authorities:
 - 1. Utility Company (e.g. Eversource, etc.).
- D. Perform Work in compliance with the following agencies:
 - 1. Massachusetts Department of Environmental Protection (MA DEP)
 - 2. OSHA Code of Federal Regulations
 - 3. Massachusetts Department of Transportation (MassDOT)
 - 4. Massachusetts Executive Office of Labor and Workforce Development (EOLWD))
 - All federal, state, and local clean air, clean water, water rights, resource recovery, and solid
 waste disposal standards and the Federal Endangered Species Act, and the Occupational
 Safety and Health Acts
 - 6. Environmental Protection Agency (EPA)
 - 7. U.S. Army Corps of Engineers (ACOE)

1.3 PERMITTING

A. At no additional expense to the Owner, file for and obtain necessary licenses and permits, including fees, for any interim phases for construction, and be responsible for complying with any Federal, State, County, and Municipal Laws, Codes, regulations applicable to the performance of the Work, including, but not limited to, any laws or regulations requiring the use of licensed Subcontractors to perform parts of the Work.

1.4 INSPECTION AND CERTIFICATIONS

- A. Arrange inspection and obtain Certificates of approval from applicable authorities having jurisdiction. Furnish certificate in accordance with Conditions of the Contract.
- B. Notify and coordinate for all inspections of the work. Allow enough time to maintain progress of the work.

1.5 PERFORMANCE

- A. Should Contractor knowingly perform any Work that does not conform with the requirements of applicable codes, ordinances, regulations, or standards, without given prior written notice to Engineer and obtaining required variance, etc. from the governing body, Contractor shall assume full responsibility thereof and shall bear all costs involved in correcting such non-complying Work. Costs shall include but not be limited to: All fines, inspection costs, damages, design and management fees in addition to the cost of removal and replacement of the work of all trades involved.
- B. All equipment operators and workers performing work at the proposed location shall hold the appropriate State of Massachusetts licenses for their responsibilities.
- C. Contractor shall provide a 'Competent Person', as defined by the US Department of Labor Occupational Safety & Health Administration (OSHA), for the location of the proposed work.
- D. Contractor and all subcontractor and vendors working at the site shall have an OSHA ten (10) hour construction safety program for their on-site employees.
- E. All required licenses and/or certificates for work being performed shall be copied and supplied to the Owner prior to beginning work by each contractor, subcontractor or vendor employee conducting work at the site. All required licenses and/or certificates for work being performed shall be in the possession of the person(s) while performing the work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01563

ENVIRONMENTAL PROTECTION AND EMERGENCY RESPONSE

PART 1 - GENERAL

1.1 SUMMARY

- A. This section consists of procedures to be followed in preventing any release of oil and hazardous materials (OHM) which include but are not limited to petroleum fuel products containing hydrocarbons including petroleum, petroleum derivatives, hydraulics and like products at or adjacent to the project site, including requirements for handling material contaminated by spillage (including leaks) from vehicles and equipment.
- B. Leaks and spillage may occur when using mechanical equipment. Equipment generated or lubricated with petroleum products, are prone to leaks or spillages, therefore proper management of "spillage incidents" is essential especially when working adjacent to public bathing beaches and sensitive coastal resources, as is to occur for work under this project.
- C. Spillage or leakage of petroleum fuel products shall be immediately remediated by the Contractor using applicable and appropriate procedure(s). Whenever such spillage or leakage occurs, the Contractor shall immediately contact the Owner and implement the appropriate corrective actions as required.
- D. The Contractor shall fully clean up any release or spill in full at its own expense.
- E. Where Contractor is identified within this section, it shall include all its subcontractors, suppliers, representatives and agents. The requirements under this section apply to the Contractor, which shall provide for execution of all appropriate and required actions in response to a release of OHM whether a result of the Contractor's own forces or its subcontractors, suppliers, representatives or other agents. All activities occurring within the project site during the performance of work under this contract shall be the responsibility of the Contractor, who shall take all necessary, appropriate and required actions to ensure protection of the water supply, public health and quality of wetland resources throughout the period of construction.
- F. Work under this Section, without limiting the generality thereof, consists of the furnishing and installing all materials, labor, testing, transportation facilities, and all operations and adjustments required for the complete installation as indicated on the drawings, stipulated in the specifications and as reasonably implied by either or both. This includes, but is not limited to the following items.
 - 1. The Contractor's requirements for responding to releases or spills of OHM including:
 - a. The following actions, at a minimum:
 - 1) Immediate notification of Truro Fire Department (TFD) and MassDEP Bureau of Waste Site Cleanup (MassDEP)
 - 2) Immediate response to halt the continued release of OHM.
 - 3) Immediate response to apply absorbent and containment measures at the OHM spill or release location.
 - 4) Full containment of the OHM to protect coastal resources and public bathing

beach within no more than one-half (1/2) hour from the time of release of OHM.

- b. Work to be performed by the Contractor's On-Call Hazardous Materials Emergency Response Contractor (ERC) under this Section, without limiting the generality thereof, consists of furnishing all materials, equipment, and labor required for the execution of work as stipulated in the specifications and as reasonably implied. This includes but is not limited to the following:
 - The Contractor's ERC shall provide all labor, materials and equipment for emergency response to OHM spills due to the Contractor's activities at the Contractor's expense. Contractor's ERC shall coordinate its activities in full with the TRD, MassDEP, and other emergency response agencies (e.g., EPA) and private emergency response/cleanup contractors to responding civil agencies.
 - 2) In the event of a spill or release, the Contractor shall retain a Massachusetts Licensed Site Professional (LSP) who shall be responsible for preparing all verbal and written notifications and other relevant documentation concerning reportable releases of OHM to MassDEP, EPA and other relevant agencies within the prescribed report notification time frames, to the extent required by applicable laws, statutes and regulations.
 - 3) The Contractor shall be responsible for selecting, managing and executing in full the appropriate disposal/recycling options for the OHM wastes resulting from spills or releases. The disposal/recycling option will be subject to the approval by the Owner. The Contractor shall be responsible for transporting and disposing/recycling of these OHM wastes to approved facilities in accordance with applicable state and federal laws and regulations.
- G. Incidental materials and activities necessary for the completion of this work in accordance with good practice and applicable laws and regulations shall be furnished, installed and provided, whether or not specifically mentioned herein.

1.2 RESPONSIBILITY OF THE CONTRACTOR

- A. The Contractor shall comply with all prevailing federal, state, and local environmental protection ordinances and codes governing and having application to any discharges, intentional or accidental, which may cause water pollution, harm public health, coastal resources, or wetland resources, or constitute a nuisance, aesthetic or otherwise.
- B. The Contractor shall be responsible for adhering to regulations, specifications and recognized standard practices related to the execution of emergency response activities. The Owner or its agents shall not be responsible at any time for the Contractor's violation of pertinent regulations or endangerment of its work, personnel, equipment, materials, public water supply and environmental resources, members of the public, private property or for any other damages resulting from a spill or release of OHM.
- C. The Contractor shall post the Emergency Response Contact List in areas readily accessible to Supervisors and all other Contractor personnel who have the authority to initiate emergency response activities. The Emergency Response Contact List shall be posted in all construction trailers and all other appropriate locations.
- D. The Contractor's emergency response activities must not adversely or otherwise affect any Owner

or Town of Truro operations associated with protecting adjacent waters, land areas, or infrastructure.

E. The Owner, Town of Truro, or their agents shall not be held negligent or liable for any spills or releases of OHM caused by the Contractor nor inadequacies or deficiencies in the Contractor's implementation of the emergency response activities.

1.3 SUBMITTALS

- A. The Contractor shall submit the following no less than two (2) weeks prior to the start of construction.
 - 1. Emergency Contact List.
 - 2. The name of a qualified on-call ERC who will provide emergency response services for this project.
 - a. The ERC shall have experience with conducting emergency response activities for projects of similar nature, duration and magnitude, as this Project requires. The ERC shall demonstrate familiarity with applicable Federal and state regulations regarding emergency response activities. The ERC shall be certified to conduct emergency response activities within Massachusetts and shall have a fully equipped and staffed response facility on Cape Cod.
 - 3. The name of the LSP who will provide emergency response services for this project, if needed.
- B. The Contractor shall submit to the Engineer, a summary of all ERC personnel, equipment and materials used, copies of all field logs including time spent on-site, mobilization, demobilizations, manifests, and a summary report suitable to be used for cost recovery that may be undertaken by the Authority. All documentation shall be submitted to the Engineer within five (5) days from completing the response action(s).

1.4 EMERGENCY RESPONSE NOTIFICATION

- A. In the event of a release or spill regardless of quantity, the Contractor is required to immediately contact the TFD by calling 911 and MassDEP's Emergency Response Center at 888-304-1133.
 - 1. If the spill is too large to be cleaned up by Contractor personnel, the Contractor shall immediately contact its Emergency Response Contractor for cleanup.
 - 2. Upon contacting MassDEP, the Contractor shall provide the following information:
 - a. Date and Time of Spill
 - b. Project name
 - c. The precise location of the spill
 - d. Contact person, telephone number and mailing address
 - e. Description of the spill (estimated quantity; type of material released)
 - f. Name of Contractor's ERC
 - g. Response Actions taken (has containment been done, has cleanup been initiated)
 - h. The names of other entities/agencies notified (i.e., Town of Truro, Truro Fire Department, etc.)

PART 2 - PRODUCTS

2.1 ABSORBENT AND CONTAINMENT MATERIALS

- A. Contractor shall equip crews and/or provide machinery with the most efficient type of petroleum absorbent materials. These materials are available at petroleum equipment suppliers and must be readily accessible so that spillages can be quickly contained and prevented from becoming greater incidents.
- B. Absorbent "pigs", pillows, pads, and/or other fiber materials, as well as sand or absorbent granular material (e.g., cat litter) may be used as an absorbent material.
- C. Floating containment booms shall be stocked on site capable of extending to encompass an area no less than 50-feet along the shoreline.
- D. Sufficient quantity of absorbent and containment materials capable of absorbing at least 50 gallons of OHM shall be stocked at the job site at all times at no less than four (4) locations (quantity indicated is for each location) in order to implement an INITIAL response to mitigate and contain a spill or release:
 - 1. Contractor staging area shown on contract drawings
 - 2. Other locations if accepted by the Engineer prior to construction.

PART 3 - EXECUTION

3.1 GENERAL

- A. The Contractor shall provide all necessary Emergency Response training to its own personnel at all levels to ensure the proper implementation of Emergency Response. The Contractor shall be able to demonstrate through written documentation that appropriate Emergency Response training has been performed for all personnel working on site. ERC shall provide all crew training and Health and Safety equipment as required by 29 CFR 1910 for any level of clean-up required. Personnel handling waste materials must have a minimum of 40 hours training as defined in 29 CFR 1910.120 and in accordance with the certified OSHA course.
- B. The Contractor or ERC shall be responsible for placing contaminated materials or liquids in appropriately labeled and marked DOT-approved containers for the -site transport and disposal of waste materials. It is the Contractor's responsibility to provide off-site transport and disposal of all remediation waste associated with any OHM release incident.
- C. Contaminated waste materials generated during emergency response activities shall be temporarily stored by the Contractor in a designated area approved by the Engineer until an off-site receiving facility has accepted the shipment.
- D. The Contractor shall identify a legal receiving facility for the disposal of the cleanup wastes. The receiving facility must be approved by the Owner prior to offsite transport and disposal of the material by the Contractor's ERC. A copy of the chain of custody and disposal documents shall be provided to the Owner after the waste is disposed.

E. The Contractor's LSP shall prepare all written documents that are required in relation to any and all releases, to the extent required by applicable laws and regulations. Copies of all documents must be submitted to the Owner at the time the documents are transmitted to the relevant agencies.

3.2 PROCEDURES

- A. Perform work as specified herein and in accordance with the applicable provisions of MassDEP and any National Park Service spill prevention countermeasures and control requirements.
- B. No payment will be made to the Contractor for the cost of any response or handling and disposing of leaks, spillages and materials contaminated by such leaks or spillages.
- C. The steps outlined below are minimum requirements and are only presented as guidelines for a spill or release of ANY quantity of OHM. They do not constitute a complete compliance or notification procedure:

1. STEP 1

a. If a spill or release is discovered, determine the origin of that leak or spillage. Stop the spillage or leak and positively contain it, and then use absorbents to collect discharged liquid.

Immediately notify the TFD, MassDEP and the Engineer.

2. STEP 2

a. Deploy containment booms and other absorbent materials to prevent migration of spillage and/or seepage below ground.

Once containment and absorption of spilled fuels is complete, the impacted (Contaminated) absorbent materials shall be stored in 55-gallon steel drums (100-150 lbs.). If leaked or spilled fuel has been absorbed into the soils, excavate and containerize the impacted (contaminated) soils. Soils may be stored in sealed 55-gallon steel drums.

3. STEP 3

a. The contaminated materials must be collected, containerized and otherwise properly stored and labeled prior to transport to a pre-approved storage, disposal or treatment facility.

All drums used to store impacted (contaminated) absorbent material and/or contaminated soils shall be properly sealed and labeled with the following information.

Name of Company (Contractor)
Contract or Project No.:
Location of origin:
Type of containment:
Quantity: (e.g. 1 of 1)
Date:
Containerized by:
Labeled by:

TEMPORARY EROSION AND SEDIMENTATION CONTROL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes furnishing, placing, and maintaining erosion and sedimentation control measures as shown on the Contract Drawings, as directed by the Engineer, and where necessary to reduce sediment content of runoff. Measures include the following:
 - 1. Compost Filter Tube Barrier.
 - 2. Catch Basin Inlet Protection.
 - 3. Dust Control.

1.3 SUBMITTALS

- A. Product Data and Installation/Maintenance Instructions
 - 1. Compost Filter Tube Barrier.
 - 2. Catch Basin Inlet Protection Measures.
 - 3. Dust Control crushed stone.

1.4 QUALITY ASSURANCE

- A. Where "Standard Specifications" is used, it shall mean the most recent version of the "Massachusetts Highway Department Standard Specifications for Highways and Bridges, 2024 English Edition", and Supplemental Specifications (September 30, 2024).
- B. Sedimentation and erosion control measures shall be installed and maintained in accordance with the "Massachusetts Erosion and Sediment Control Guidelines for Urban and Suburban Areas (2003)."

1.5 DEFINITIONS

A. Control System: Single or group of practices that prevent detachment and interrupt the transport of soil by rainfall, stormwater runoff, melting snow or ice.

PART 2 - PRODUCTS

2.1 All products shall be furnished, installed and maintained in accordance with the Massachusetts Erosion and Sediment Control Guidelines.

2.2 Compost Filter Tube Barrier

- A. Shall be 12" diameter cylinders of biodegradable natural fabric netting filled with clean, natural compost.
- B. Compost used shall be weed free and derived from a well-decomposed source of organic matter. The compost shall be produced using an aerobic composting process meeting CFR 503, M.O.E. 101, C.C.M.E. Type "A" and "AA" regulations, Standard Test of Assurance Program, or BNQ Program, including time and temperature data indicating effective weed seed, pathogen and insect larvae kill. The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted. Test methods for the items below should follow USCC TMECC guidelines for laboratory procedures:
 - 1. PH shall range between 5.0-8.0 in accordance with TMECC 04.11-A, "Electrometric pH Determinations for Compost."
 - 2. Particle size of compost shall meet the following gradation: 99% passing a 2" sieve and a minimum of 70% greater than the 3/8" sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification".
 - 3. Moisture content of less than 60% in accordance with standardized test methods for moisture determination.
 - 4. Material shall be relatively free (<1% by dry weight) of inert or foreign man made materials.
 - 5. Product and Manufacturer: Filtrexx® SiltsoxxTM, or approved equal.

2.3 Catch Basin Inlet Protection

A. Shall be a grate-mounted device consisting of a woven polypropylene fabric that meets or exceeds the following specifications.

Properties	Requirement	Unit
Grab Tensile Strength	ASTM D-4632	300 Lbs
Grab Tensile Elongation	ASTM D-4632	20 Percent
Puncture	ASTM D-4833	120 Lbs
Mullen Burst	ASTM D-3786	800 Psi
Trapezoid Tear	ASTM D-4533	120 Lbs
UV Resistance	ASTM D-4355	80 Percent
Apparent Opening Size	ASTM D-4751	40 US Sieve
Flow Rate	ASTM D4491	40Gal/Min/Sq. Ft.
Permittivity	ASTM D-4491	0.55 / sec

- B. Product and Manufacturer: Siltsack® as manufactured by Geo-Synthetics, LLC, or approved equal.
- 2.4 Dust Control
 - A. Water: Potable.
 - B. Crushed Stone: MassDOT Section M.2.01.1.

PART 3 - EXECUTION

3.1 GENERAL

- A. Minimize environmental damage during construction. Prevent exposure of fuel, oil, lubricants, other fluids, and construction debris.
- B. Install erosion and sediment control measures prior to clearing, demolition or construction.
- C. Implement and maintain the erosion and sediment control notes on the Contract Drawings.

 Inform parties engaged on the construction site of the requirements and objectives of the plan.
- D. Construct erosion and sediment control measures in accordance with the Standard Specifications, the Massachusetts Erosion and Sedimentation Control Guidelines, and as indicated on the Contract Drawings.
 - 1. Attend a preconstruction meeting with the Engineer, to review permit conditions and construction methods.
 - 2. Construct erosion and sediment control measures in accordance with all project permits.
 - 3. Provide additional sedimentation and erosion controls if deemed necessary by the Engineer, Town, or State to address field conditions.
 - 4. Inspect site weekly and prior to any anticipated rain event. Ensure that erosion controls are properly maintained and functioning.
 - 5. Supply a 24-hour contact name and number as part of the erosion control plan.
- E. Install additional control measures, if deemed necessary by the State, Authorities Having Jurisdiction, or Owner.
- F. Protect catch basins with grate-mounted catch basin inlet protection devices until disturbed areas are stabilized.
 - 1. Remove and dispose sediment from control structures.
- G. Control dust and wind erosion. Control dust to prevent a hazard to traffic on adjacent roadways. Dust control includes, but is not limited to, sprinkling of water and/or crushed stone on exposed soils and haul roads. Dust control shall be provided daily or more often by the application of water. Care shall be taken to prevent over-watering, which may result in runoff or erosion. Care will be taken to spray additional areas of exposed soil as necessary during windy periods. Only the minimum amount of water will be used; no runoff will result from this practice.

- H. Do not discharge sediment-laden pumped water directly into water courses, public bathing beaches, or coastal resources where dewatering is necessary. Discharge into temporary dewatering basins prior to coastal resources or watercourse. Utilize methods and devices as indicated on the Contract Drawings and as permitted by authorities having jurisdiction and appropriate regulations to minimize and retain suspended solids.
 - 1. If pumping operation results in turbidity problems, stop pumping until means of controlling turbidity are determined and implemented.
- I. Within 14 days of completing slope construction, stabilize slopes with vegetation to minimize exposure.

J. Stockpiles

- 1. Side Slopes: 2:1 maximum.
- 2. Surround stockpiles by a sediment barrier.
- 3. Stabilize stockpiles left bare for more than 15 days with temporary vegetation or mulch.

K. Final Grading

1. If final grading is delayed for more than 14 days, and is not expected to resume within 21 days after land disturbances ceases, stabilize soils with temporary vegetation.

L. Planting Season for Temporary Vegetation

1. April 1 through November 15 for mixture consisting of 40% annual ryegrass and 60% perennial ryegrass; and November 15 to March 31 for winter ryegrass.

3.2 CONTROL SYSTEM

A. Compost Filter Tube Barriers

- 1. Compost filter tubes shall be installed by the Contractor as indicated on the Contract Drawings. A row of weighted compost filter tube barriers shall also be installed around any soil stockpile areas established by the Contractor in paved areas.
- 2. Install compost filter tube barriers as indicated on the Contract Drawings and by the manufacturer's written instructions.
- 3. Ends of adjacent compost filter tubes shall be tightly butted or overlapped so that no opening exists for water to pass through. Compost filter tube barriers shall be free of damage or defects when delivered to the site. No vehicles shall be driven over rolls.
- 4. Maintain compost filter tube barriers as recommended by the manufacturer.

B. Catch Basin Inlet Protection

1. Install catch basin inlet protection in accordance with the manufacturer's written instructions and as indicated on the Contract Drawings.

C. Construction Dewatering Filter Bag

1. Filter bag shall be installed by the Contractor as indicated in the Contract Drawings and in accordance with the Massachusetts Erosion and Sediment Control Guidelines.

- 2. Install filter bag so incoming water flows downhill through the filter bag without creating erosion.
- 3. Dispose of filter bag when it can no longer efficiently filter sediment or pass water at a reasonable rate.
- 4. Filter bag shall be completely removed and the installation area restored to pre-construction condition or better following completion of construction.

D. Dust Control

Apply water and crushed stone uniformly over the surface when dust becomes a nuisance or when directed by the Engineer.

3.3 MAINTENANCE

A. Control System

- 1. Erosion control measures shall be inspected and maintained as indicated on the Contract Drawings. In general, the control system shall be inspected immediately after each rainfall and daily during prolonged rainfall. At minimum, control system must be inspected at least once every seven (7) calendar days. Make repairs immediately.
- 2. Remove and dispose of accumulated sediments when sediment reaches approximately one-half the height of the structure, as instructed by the control system manufacturer or when directed by the Engineer. All sediment must be disposed of legally offsite.
- 3. Remove and dispose concrete washout solids legally off-site following settlement in the basin.
- 4. Replace control system promptly if fabric or other materials decomposes or system becomes ineffective prior to the expected usable life.
- 5. Maintain or replace system until no longer necessary for the intended purpose.
- 6. Maintain catch basin inlet protection in accordance with the manufacturer's written instructions.

3.4 REMOVAL

A. Remove and dispose of control systems immediately after adjacent areas are satisfactory stabilized with vegetation, or as directed by the Engineer.

PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.

B. Related Sections:

1. Division 1 Section "References" for applicable industry standards for products specified.

1.3 DEFINITIONS

- A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
 - 2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
 - Comparable Product: Product that is demonstrated and approved through submittal process
 to have the indicated qualities related to type, function, dimension, in-service performance,
 physical properties, appearance, and other characteristics that equal or exceed those of
 specified product.
- B. Basis-of-Design Product Specification: A specification in which a specific manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of additional manufacturers named in the specification.

1.4 ACTION SUBMITTALS

- A. Comparable Product Requests: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Include data to indicate compliance with the requirements specified in "Comparable Products" Article.

- 2. Engineer's Action: If necessary, Engineer will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Engineer will notify Contractor of approval or rejection of proposed comparable product request within 15 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later.
 - a. Form of Approval: As specified in Division 1 Section "Submittal Procedures."
 - b. Use product specified if Engineer does not issue a decision on use of a comparable product request within time allocated.
- B. Basis-of-Design Product Specification Submittal: Comply with requirements in Division 1 Section "Submittal Procedures." Show compliance with requirements.

1.5 QUALITY ASSURANCE

- A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.
 - 1. Each contractor is responsible for providing products and construction methods compatible with products and construction methods of other contractors.
 - 2. If a dispute arises between contractors over concurrently selectable but incompatible products, Engineer will determine which products shall be used.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.
- B. Delivery and Handling:
 - 1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
 - 2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
 - 3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
 - 4. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.
 - 5. Coordinate delivery of oversized objects with local Police Department.

C. Storage:

- 1. Store products to allow for inspection of quantity or counting of units.
- 2. Store materials in a manner that will not endanger Project structure.
- 3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
- Store foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.

- 5. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
- 6. Protect stored products from damage and liquids from freezing.
- 7. Provide a secure location and enclosure at Project site for storage of materials and equipment by Owner's construction forces. Coordinate location with Owner.

1.7 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
 - 1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
 - 2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.
 - 1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
 - 2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
 - 3. Refer to Division 2. Sections for specific content requirements and particular requirements for submitting special warranties.
- C. Submittal Time: Comply with requirements in Division 1 Section "Closeout Procedures."

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
 - 1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 - 2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 - 3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
 - 4. Where products are accompanied by the term "as selected," Engineer will make selection.
 - 5. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.

6. Or Equal: For products specified by name and accompanied by the term "or equal," or "or approved equal," or "or approved," comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed product.

B. Product Selection Procedures:

- 1. Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
- 2. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
- 3. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product by one of the other named manufacturers.
- C. Visual Matching Specification: Where Specifications require "match Engineer's sample", provide a product that complies with requirements and matches Engineer's sample. Engineer's decision will be final on whether a proposed product matches.
 - 1. If no product available within specified category matches and complies with other specified requirements, comply with requirements in Division 1 Section "Substitution Procedures" for proposal of product.
- D. Visual Selection Specification: Where Specifications include the phrase "as selected by Engineer from manufacturer's full range" or similar phrase, select a product that complies with requirements. Engineer will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 COMPARABLE PRODUCTS

- A. Conditions for Consideration: Engineer will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Engineer may return requests without action, except to record noncompliance with these requirements:
 - 1. Evidence that the proposed product does not require revisions to the Contract Documents that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
 - 2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
 - 3. Evidence that proposed product provides specified warranty.
 - 4. List of similar installations for completed projects with project names and addresses and names and addresses of engineers and owners, if requested.
 - 5. Samples, if requested.

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PART 3 - EXECUTION (Not Used)

EXECUTION REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Construction layout.
 - 2. Installation of the Work.
 - 3. Progress cleaning.
 - 4. Protection of installed construction.
 - 5. Correction of the Work.

B. Related Sections:

- 1. Division 1 Section "Submittal Procedures."
- 2. Division 1 Section "Closeout Procedures" for submitting final Project Record Documents, recording of Owner-accepted deviations, and final cleaning.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to the Engineer for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning site work, investigate and verify the existence and location of underground utilities and other construction affecting the Work.

- B. Existing Utilities: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning site Work, investigate and verify the existence and location of underground utilities and other construction affecting the Work.
- C. Acceptance of Conditions: Examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
 - 1. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
 - a. Description of the work.
 - b. List of detrimental conditions, including substrates.
 - c. List of unacceptable installation tolerances.
 - d. Recommended corrections.
 - 2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
 - 3. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Existing Utility Information: Furnish information to Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
- B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Contract Drawings.
- D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of the Contractor, submit a request for information to Engineer according to requirements in Division 1 Section "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Contract Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Engineer promptly.
- B. Site Improvements: Locate and lay out site improvements, including pavements, grading, fill and topsoil placement, utility slopes, and rim and invert elevations.
- C. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Engineer.

3.4 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 - 1. Make vertical work plumb and make horizontal work level.
 - 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 - 3. Conceal pipes, ducts, and wiring in finished areas, unless otherwise indicated.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Tools and Equipment: Do not use tools or equipment that produces harmful noise levels.
- F. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.5 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
 - 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 - 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
 - 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
 - a. Utilize containers intended for holding waste materials of type to be stored.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
 - 1. Remove liquid spills promptly.
 - 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

- G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.6 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Comply with manufacturer's written instructions for temperature and relative humidity.

3.7 CORRECTION OF THE WORK

- A. Repair or remove and replace defective construction. Restore damaged substrates and finishes.
 - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
- B. Restore permanent facilities used during construction to their specified condition.
- C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
- D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Final cleaning.

B. Related Sections:

- 1. Division 1 Section "Execution Requirements" for progress cleaning of Project site.
- 2. Division 1 Section "Project Record Documents" for submitting Record Drawings, Record Specifications, and Record Product Data.
- 3. Division 2 Sections for specific closeout and special cleaning requirements for the Work in those Sections.

1.3 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspection for determining date of Substantial Completion, complete the following. List items below that are incomplete with request.
 - 1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
 - 2. Advise Owner of pending insurance changeover requirements.
 - 3. Submit specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 - 4. Obtain and submit releases permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 5. Prepare and submit Project Record Documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.
 - 6. Deliver tools, spare parts, extra materials, and similar items to location designated by Owner. Label with manufacturer's name and model number where applicable.
 - 7. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
 - 8. Complete startup testing of systems.

- 9. Submit test/adjust/balance records.
- 10. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
- 11. Advise Owner of changeover in heat and other utilities.
- 12. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
- 13. Complete final cleaning requirements, including touchup painting.
- 14. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- B. Inspection: Submit a written request for inspection for Substantial Completion. On receipt of request, Engineer will either proceed with inspection or notify Contractor of unfulfilled requirements. Engineer will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Engineer, that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 - 2. Results of completed inspection will form the basis of requirements for final completion.

1.4 FINAL COMPLETION

- A. Preliminary Procedures: Before requesting final inspection for determining final completion, complete the following:
 - 1. Submit a final Application for Payment according to Division 1 Section "Payment Procedures."
 - 2. Submit certified copy of Engineer's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Engineer. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 - 3. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
 - 4. Submit pest-control final inspection report and warranty.
 - 5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
- B. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Engineer will either proceed with inspection or notify Contractor of unfulfilled requirements. Engineer will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.5 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.

- 1. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
- 2. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Engineer.
 - d. Name of Contractor.
 - e. Page number.
- 3. Submit list of incomplete items in the following format:
 - a. PDF electronic file.
 - b. Electronic copy of product schedule or list, unless otherwise indicated.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove spills, stains, and other foreign deposits.
 - c. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - d. Remove labels that are not permanent.
- C. Construction Waste Disposal: Dispose of all waste material legally.

PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record Drawings.
 - 2. Record Product Data.

B. Related Sections:

- 1. Division 1 Section "Execution Requirements" for final property survey.
- 2. Division 1 Section "Closeout Procedures" for general closeout procedures.
- 3. Division 2 for specific requirements for project record documents of the Work in those Sections.

1.3 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit one paper set and one electronic set of marked-up record drawings.
- B. Record Product Data: Submit one paper copy and annotated PDF electronic files and directories of each submittal.
 - 1. Where record Product Data are required as part of operation and maintenance manuals, submit duplicate marked-up Product Data as a component of manual.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings.
 - 1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.

- b. Accurately record information in an acceptable drawing technique.
- c. Record data as soon as possible after obtaining it.
- d. Record and check the markup before enclosing concealed installations.
- e. Cross-reference record prints to corresponding archive photographic documentation.
- 2. Content: Types of items requiring marking include, but are not limited to, the following:
 - a. Dimensional changes to Drawings.
 - b. Revisions to details shown on Drawings.
 - c. Locations and depths of underground utilities.
 - d. Changes made following Engineer's written orders.
 - e. Details not on the original Contract Drawings.
 - f. Field records for variable and concealed conditions.
 - g. Record information on the Work that is shown only schematically.
- 3. Mark the Contract Drawings and Shop Drawings completely and accurately. Utilize personnel proficient at recording graphic information in production of marked-up record prints.
- 4. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
- 5. Mark important additional information that was either shown schematically or omitted from original Drawings.
- 6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Engineer. When authorized, prepare a full set of corrected digital data files of the Contract Drawings, as follows:
 - 1. Format: Same digital data software program, version, and operating system as the original Contract Drawings.
 - 2. Format: DWG.
 - 3. Format: Annotated PDF electronic file.
 - 4. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
 - 5. Refer instances of uncertainty to Engineer for resolution.
 - 6. Engineer will furnish Contractor one set of digital data files of the Contract Drawings for use in recording information.
 - a. Engineer will provide data file layer information. Record markups in separate layers.
- C. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
 - 1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 - 2. Format: Annotated PDF electronic file.

- 3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.
- 4. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Engineer.
 - e. Name of Contractor.

2.2 RECORD PRODUCT DATA

- A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
 - 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 - 2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
 - 3. Note related Change Orders and record Drawings where applicable.
- B. Format: Submit record Product Data as scanned PDF electronic file(s) of marked up paper copy of Product Data.
 - 1. Include record Product Data directory organized by specification section number and title, electronically linked to each item of record Product Data.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and modifications to project record documents as they occur; do not wait until the end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Engineer's reference during normal working hours.

HELICAL FOUNDATION PILES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Helical anchors used to support tension loads.
- B. Helical piles used to support compression loads.

1.2 PRICE AND PAYMENT PROCEDURES

- A. Base bids on anchor/pile quantity and lengths as indicated.
- B. If the actual number of installed anchors/piles or the total installed length differs, an adjustment to the Contract Sum will be made based on unit prices defined in the Agreement.
- C. No additional payment will be made for withdrawn, damaged, rejected, or misplaced piles; for any portion of a pile remaining above the cut-off elevation; for backdriving; for cutting off piles, or for any cut off length of piles.
- D. Quantity and length measurements will be determined by Installation Logs kept and submitted by Contractor and verified by the Engineer, based on the following:
 - 1. Length: By the linear foot measured from point to existing site elevation as indicated.
 - 2. Test Anchors/Piles: Assume 5 feet longer than longest designed length.

1.3 DEFINITIONS

A. Specific terms used in this section are defined below. Terms not defined below are defined in DFI TM-GLOS-1 first and then by common usage.

1.4 REFERENCE STANDARDS

- A. AISC 360 Specification for Structural Steel Buildings; 2022, with Errata (2023).
- B. ASTM A29/A29M Standard Specification for General Requirements for Steel Bars, Carbon and Alloy, Hot-Wrought; 2023.
- C. ASTM A36/A36M Standard Specification for Carbon Structural Steel; 2019.
- D. ASTM A123/A123M Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.
- E. ASTM A500/A500M Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2023.
- F. ASTM A572/A572M Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel; 2021, with Editorial Revision.
- G. DFI TM-GLOS-1 Deep Foundation Institute Technical Manual; Glossary of Foundation Terms; 1981.

H. SAE J429 - Mechanical and Material Requirements for Externally Threaded Fasteners; 2014.

1.5 SUBMITTALS

- A. Product Data: Product list, with manufacturer's model designations; published capacities for installed assemblies, including load transfer devices.
- B. Design Data: Submit documentation of foundation design, signed and certified by foundation designer; include:
 - 1. Statement that proposed foundations meet specified design criteria.
 - 2. Nominal load on each foundation element.
 - 3. Maximum allowable installation torque of each selected product.
 - 4. Calculated theoretical geotechnical capacity.
 - 5. Minimum effective torsional resistance requirements.
 - 6. Minimum embedment lengths and such other site specific embedment depth requirements.
 - 7. Inclination angle and location tolerance requirements.
 - 8. Pre-tensioning requirements, if any.
- C. Installation Logs.

1.6 QUALITY ASSURANCE

- A. Designer Qualifications: Experienced in design of helical foundations of the type involved on this project, as evidenced by:
 - 1. State registration/licensure as a professional engineer.
 - 2. Recognition by local authority having jurisdiction.
- B. Installer Qualifications: Experienced in installation of helical foundations of the type involved on this project, as evidenced by:
 - 1. Manufacturer's certificate of competency in installing helical piles.

PART 2 - PRODUCTS

2.1 HELICAL FOUNDATION DESIGN CRITERIA

- A. It is Contractor's responsibility to design, or obtain qualified design, of the helical foundations as indicated in Contract Documents.
 - 1. Information necessary for design that is contained in Contract Documents includes:
 - a. Locations of foundation elements.
 - b. Nominal design load for each foundation element, including dead load, live load and other loads required by building codes.

- 2. Subsurface geotechnical data may be obtained from borings.
- B. Helical Foundation Elements: One or more helical deformed plates (helix plates) attached to a central shaft with a load transfer device for attachment to a structure; entire element resisting applied loads by soil pressure.
 - 1. Design foundations to support/resist the nominal design loads shown on drawings in accordance with AISC 360 Allowable Stress Design method.
 - 2. Select foundation elements based on allowable installation torque and calculated minimum embedment length; maximum embedment length, if any; and minimum effective torsional resistance.
 - 3. Corrosion Service Life: 50 years, minimum.
 - 4. Use solid square shaft helical anchors where subject to tension alone.
 - 5. Use hollow, round shaft helical foundations where subject to compression only or to alternating tension and compression.

C. Helical Anchors:

- 1. Base design on published capacities that represent entire anchor including couplings and connections.
- 2. Safety Factor: 2 times ultimate pullout/bearing resistance, minimum.
- 3. Axial Deflection at Nominal Tension Load: 1/2 inches, maximum.
- 4. Axial Deflection at Nominal Tension Load: As indicated on drawings.
- 5. Pre-tensioning of anchors is acceptable method of reducing deflection at service loads.

D. Helical Piles:

- 1. Design with pile shaft sections in direct contact with couplings and no coupling bolts or welds in load path.
- 2. Safety Factor: 2 times ultimate bearing resistance, minimum.
- 3. Deflection: As indicated on drawings.
- 4. Fit Up Tolerance: 1/16 inch, maximum.

2.2 MATERIALS

- A. All Components: Hot-dipped galvanized in accordance with ASTM A123/A123M.
- B. Helical Anchors: Solid, square shaft of hot rolled, solid, Round-Cornered-Square (RCS), carbon steel bar complying with ASTM A29/A29M.
 - 1. Size: 1-1/2 inch square.
 - 2. Torque Strength: 6,000 foot-pounds.

- 3. Minimum Yield Strength: 90 kips per square inch.
- C. Helical Anchors and Piles: Hollow, round shaft of structural steel tube or pipe (rolled) complying with ASTM A572/A572M.
 - 1. Size: 2-7/8 inches O.D. by 0.203 inch wall thickness.
 - 2. Torque Strength: 6,000 foot-pounds.
 - 3. Minimum Yield Strength: 60 kips per square inch.
- D. Helical Anchors and Piles: Hollow, round shaft of structural steel tube or pipe (welded or seamless) complying with ASTM A500/A500M.
 - 1. Size: 2-7/8 inches O.D. by 0.276 inch wall thickness.
 - 2. Torque Strength: 8,000 foot-pounds.
 - 3. Minimum Yield Strength: 60 kips per square inch.
- E. Helical Anchors and Piles: Hollow, round shaft of structural steel tube or pipe (rolled) complying with ASTM A572/A572M.
 - 1. Size: 3-1/2 inches O.D. by 0.313 inch wall thickness.
 - 2. Torque Strength: 16,000 foot-pounds.
 - 3. Minimum Yield Strength: 65 kips per square inch.
- F. Helix Plates: Round steel plates formed into helical spiral on matching metal dies to true helical shape and uniform pitch; welded to central shaft with all plates tracking the same path as leading helix.
 - 1. Material: Hot rolled carbon steel sheet, strip, or plate complying with ASTM A36/A36M or ASTM A572/A572M, Grade 50.
 - 2. Thickness: 3/8 inch
 - 3. Profile: True helix-shaped plates, normal to shaft, leading and trailing edges within 1/4 inch of parallel.
 - 4. Pitch: 3 inches plus or minus 1/4 inch. All helix plates shall have uniform pitch.
 - 5. Edge Profile: Circular edge.
 - 6. Spacing: Between 2.4 and 3.6 times helix diameter.
- G. Bolts: SAE J429, Grade 8, bolts with nut.
- H. Couplings: Integral to shaft.
- I. Anchor Plates or Pile Caps: Load-transfer assembly welded from structural steel complying with ASTM A36/A36M.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install helical foundations as shown on drawings and approved design documentation. In event of conflict between drawings and approved anchorage design documentation, do not begin construction on any affected items until such conflict has been resolved.
- B. Comply with manufacturer's written installation requirements and recommendations for specific project site and conditions.
- C. Use installation methods that will not cause damage to existing adjacent or nearby structures.
- D. Keep and submit a log of helical foundation installations, including the following data:
 - 1. Date and time of installation.
 - 2. Location of foundation element.
 - 3. Installed foundation type and configuration.
 - 4. Foundation reveal.
 - 5. Total length of installed foundation element.
 - 6. Installed inclination of foundation element.
 - 7. For compression piles, installation torque measurements taken in one to three foot increments of total length.
 - 8. Actual effective torsional resistance.
 - 9. Calculated geotechnical capacity based on actual torsional resistance and soil parameters appropriate for subsurface conditions within three helix diameters above helix depth.
 - 10. Comments pertaining to interruptions, obstructions, or other relevant information.
- E. If required, position inclined helical anchors perpendicular in order to assist in advancement into soil before establishing required batter angle; after initial penetration, establish required angle of inclination
- F. Engage helical sections into soil and advance in a smooth, continuous manner at a rate of rotation of 5 to 25 RPM.
- G. Apply sufficient down pressure to uniformly advance helical sections a distance per revolution approximately equal to pitch of helix plates.
- H. Adjust rate of rotation and magnitude of down pressure for specific soil conditions and depths.
- I. Provide extension sections as required to achieve required results.
- J. Achieve both minimum embedment length and minimum effective torsional resistance prior to terminating foundation installation.
- K. Location Tolerances:
- L. Pile Head Horizontal Tolerance: Within 3 inches of location shown on drawings.

M. Pile Shaft Angular Tolerance: Within 2 degrees of vertical.

3.2 ACHIEVEMENT OF EFFECTIVE INSTALLATIONS

- A. In the event that the initial installation of a foundation element does not achieve both minimum embedment length and minimum effective torsional resistance, adjust, repair, or replace that foundation element so that it does achieve both requirements.
 - 1. The following procedures are considered acceptable and do not require prior approval unless otherwise indicated.
 - 2. All other proposed remedies must be approved by Owner prior to implementation.
- B. Minimum Embedment Length Achieved Before Achieving Minimum Effective Torsional Resistance: Use one of the following procedures:
 - 1. Continue installation to greater depths until minimum effective torsional resistance is achieved, provided that, if maximum length constraint is applicable, continued installation does not exceed said maximum length.
 - 2. Demonstrate acceptable foundation performance through testing.
 - 3. Replace foundation with one having a different helix configuration, as follows:
 - a. Embed replacement to a length placing last helix at least three times its own diameter beyond position of first helix of replaced foundation.
 - b. Achieve minimum effective torsional resistance.
 - c. Do not exceed any applicable maximum embedment length.
 - d. Test replacement.
- C. Allowable Torque Rating Reached Before Achieving Minimum Embedment Length: Use one of the following procedures:
 - 1. If permitted by Owner, terminate installation at length achieved.
 - 2. Replace foundation with one having either a higher torsional strength rating or a different helix configuration, as follows:
 - a. Achieve minimum embedment length and minimum effective torsional resistance.
 - b. Embed replacement to length that places last helix at least three times helix diameter beyond position of first helix of replaced foundation.
 - c. Do not exceed any applicable maximum embedment length limit.
 - 3. If allowed by location tolerance or approved by Owner, remove foundation section and reinstall as follows:
 - a. Position reinstalled foundation at least three times diameter of largest helix away from initial location.
 - b. Achieve original embedment length and torsional resistance criteria.

- c. If repositioning requires installation of additional helical foundations, adjust nominal loads for spacing changes.
- D. Maximum Embedment Length Reached Before Achieving Minimum Effective Torsional Resistance: Use one of the following procedures:
 - 1. If allowed by location tolerance or approved by Owner, remove and reinstall foundation as follows:
 - a. Position reinstalled foundation at least three times diameter of largest helix away from initial location.
 - b. Achieve original minimum embedment length and minimum effective torsional resistance.
 - c. If repositioning requires installation of additional helical foundations, adjust nominal loads for spacing changes.
 - 2. Demonstrate acceptable foundation performance through testing.
 - 3. De-rate load capacity of helical foundation and install additional foundations as necessary; de-rated capacity and additional foundation location shall be subject to approval of Owner.
 - 4. Replace foundation with one having a different helix configuration; achieve minimum embedment length and minimum effective torsional resistance.
- E. Failure of Field Quality Control Test: Use one of the following procedures:
 - 1. Install foundation to a greater depth and installation torque and re-test provided that, if a maximum embedment length constraint is applicable, continued installation will not exceed said maximum length constraint.
 - 2. Replace foundation with one having a different helix configuration. Embed last helix at least three times its own diameter beyond position of first helix of replaced foundation without exceeding any applicable maximum embedment length requirements. Re-test replacement.
 - 3. If approved by Owner, de-rate load capacity of helical foundation and install additional foundations at positions that are at least three times diameter of largest helix away from any other foundation locations; space anchors in cohesive soils not closer than four helix diameters.

3.3 FIELD QUALITY CONTROL

A. Failure of Tests: Replace or re-drive, and re-test, helical foundations that any fail test and cannot be remedied using any of the procedures described above in "ACHIEVEMENT OF EFFECTIVE INSTALLATIONS" article.

EXTERIOR ROUGH CARPENTRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Dimensional wood framing.

1.3 DEFINITIONS

- A. Boards: Lumber of less than 2 inches nominal in thickness and 2 inches nominal or greater in width.
- B. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 14 inches nominal in least dimension.
- C. Lumber grading agencies, and the abbreviations used to reference them, include the following:
 - 1. NeLMA: Northeastern Lumber Manufacturers' Association.
 - 2. NLGA: National Lumber Grades Authority.
 - 3. RIS: Redwood Inspection Service.
 - 4. SPIB: The Southern Pine Inspection Bureau.
 - 5. WCLIB: West Coast Lumber Inspection Bureau.
 - 6. WWPA: Western Wood Products Association.

1.4 ACTION SUBMITTALS

A. Product Data: For preservative-treated wood products. Include chemical treatment manufacturer's written instructions for handling, storing, installing, and finishing treated material.

1.5 INFORMATIONAL SUBMITTALS

A. Material Certificates:

1. For dimensional lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.

- B. Certificates of Inspection: Issued by lumber grading agency for exposed wood products not marked with grade stamp.
- C. Evaluation Reports: For the following from ICC-ES:
 - 1. Power-driven fasteners.
 - 2. Power-actuated fasteners.
 - 3. Metal framing connectors.

1.6 QUALITY ASSURANCE

- A. Lumber Manufacturer Qualifications: A qualified manufacturer that is certified for chain of custody by an FSC-accredited certification body.
- B. Lumber Vendor Qualifications: A vendor that is certified for chain of custody by an FSC-accredited certification body.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store materials under cover and protected from weather and contact with damp or wet surfaces. Stack lumber flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 LUMBER, GENERAL

- A. Comply with DOC PS 20 and with grading rules of lumber grading agencies certified by ALSC's Board of Review as applicable. If no grading agency is indicated, comply with the applicable rules of any rules-writing agency certified by ALSC's Board of Review.
 - 1. Factory mark each item with grade stamp of grading agency.
 - 2. For items that are exposed to view in the completed Work, omit grade stamp and provide certificates of grade compliance issued by grading agency.
 - 3. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry wood products.
 - 4. Provide dressed lumber, S4S, unless otherwise indicated.
- B. Certified Wood: Boards and dimension lumber shall be certified as "FSC Pure""] according to FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship," and to FSC STD-40-004, "FSC Standard for Chain of Custody Certification."
- C. Maximum Moisture Content:
 - 1. Boards: 19 percent.

2. Dimension Lumber: 19 percent.

2.2 LUMBER

- A. Hand select wood for freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot holes, shake, splits, torn grain, and wane.
- B. Dimension Lumber: No. 2 grade or better and the following species:
 - 1. Mixed southern pine; SPIB.

2.3 POSTS

- A. Dimension Lumber Posts: No. 2 grade or better and the following species:
 - 1. Mixed southern pine; SPIB.

2.4 FASTENERS

- A. General: Provide fasteners of size and type indicated, acceptable to authorities having jurisdiction, and that comply with requirements specified in this article for material and manufacture. Provide nails or screws, in sufficient length, to penetrate not less than 1-1/2 inches into wood substrate.
 - 1. Use fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M or ASTM F 2329 unless otherwise indicated.
- B. Nails: ASTM F 1667.
- C. Power-Driven Fasteners: ICC-ES AC70.
- D. Wood Screws and Lag Screws: ASME B18.2.1, ASME B18.6.1, or ICC-ES AC233.
- E. Carbon-Steel Bolts: ASTM A 307 with ASTM A 563 hex nuts and, where indicated, flat washers all hot-dip zinc coated.

2.5 METAL ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - 1. <u>Simpson Strong-Tie Company, Inc.</u>
- B. <u>Basis-of-Design Products</u>: Subject to compliance with requirements, provide products indicated on Drawings or comparable products by one of the following:
 - 1. <u>Simpson Strong-Tie Company, Inc.</u>
- C. Galvanized-Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 coating designation.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Set work to required levels and lines, with members plumb, true to line, cut, and fitted. Fit work to other construction; scribe and cope as needed for accurate fit.
- B. Framing Standard: Comply with AF&PA WCD1 unless otherwise indicated.
- C. Install metal framing anchors to comply with manufacturer's written instructions.
- D. Do not splice structural members between supports unless otherwise indicated.
- E. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
- F. Sort and select lumber so that natural characteristics do not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of members or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
- G. Securely attach exterior rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 - 1. ICC-ES AC70 for power-driven fasteners.
 - 2. "Fastening Schedule" in ICC's International Building Code.
 - 3. "Fastener Schedule for Structural Members" and "Alternate Attachments" in ICC's International Residential Code for One- and Two-Family Dwellings.
- H. Use common wire nails unless otherwise indicated. Select fasteners of size that do not fully penetrate members where opposite side is exposed to view. Make tight connections between members. Install fasteners without splitting wood; do not countersink nail heads unless otherwise indicated.

PUBLIC ACCESS STRUCTURE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Plastic decking.
 - 2. Railings for elevated decks.
- B. Related Requirements:
 - 1. Section 06 10 63 "Exterior Rough Carpentry" for structural deck framing.

1.3 DEFINITIONS

- A. Boards: Lumber of less than 2 inches nominal in thickness and 2 inches nominal or greater in width.
- B. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 5 inches nominal in least dimension.
- C. Timber: Lumber of 5 inches nominal or greater in least dimension.

1.4 ACTION SUBMITTALS

- A. Product Data: For plastic decking.
 - 1. For plastic decking, include installation instructions.
- B. Samples: For plastic decking, not less than 24 inches long, showing the range of variation to be expected in appearance of decking, including surface texture.

1.5 INFORMATIONAL SUBMITTALS

- A. Evaluation Reports: For the following, from ICC-ES:
 - 1. Plastic decking.
 - 2. Decking fasteners.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Handle and store plastic lumber to comply with manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 WOOD RAILINGS

- A. Hand select wood for freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot holes, shake, splits, torn grain, and wane.
- B. Dimension Lumber Railing Members: No. 2 grade and the following species:
 - 1. Mixed southern pine; SPIB.
 - 2. Spruce-pine-fir or spruce-pine-fir (South); NeLMA, NLGA, WCLIB, or WWPA.

2.2 PLASTIC DECKING

- A. Plastic Lumber, General: Products acceptable to authorities having jurisdiction with current model code evaluation reports that show compliance with building code in effect for Project for indicated type of construction.
 - 1. Allowable loads and spans, as documented in evaluation reports or in information referenced in evaluation reports, shall not be less than design loads and spans indicated.
- B. Composite Plastic Lumber: Solid shapes made from a mixture of cellulose fiber and polyethylene or polypropylene.
 - 1. <u>Basis-of-Design Product</u>: Subject to compliance with requirements, provide Trex Company Inc., Trex Enhance 1" Square Edge Board or comparable product by one of the following:
 - a. AZEK Building Products, Inc.
 - b. <u>CertainTeed Corporation</u>.
 - c. Crawford Industries, LLC.
 - d. Deceuninck North America.
 - e. <u>Fiberon, LLC</u>.
 - f. GAF Decking Systems, LLC.
 - g. GAF Materials Corporation.
 - h. Green Bay Decking.
 - i. <u>Midwest Manufacturing Extrusion</u>.

- j. Millennium Decking Inc.
- k. <u>Premium Composites LLC.</u>
- l. Rhino Deck.
- m. TAMKO Building Products, Inc.
- n. Thermal Industries, Inc.
- o. TimberTech.
- p. <u>Trex Company, Inc.</u>
- q. <u>Universal Forest Products, Inc.</u>
- r. Weyerhaeuser Company.
- 2. Decking Standard: ICC-ES AC109 or ICC-ES AC174.
- 3. Decking Size: 7/8 by 5-1/2 inches actual.
- 4. Configuration: Provide product with grooved edges designed for fastening with concealed decking fasteners.
- 5. Surface Texture: Woodgrain or Manufacturer's standard.
- 6. Color: As selected by Client from manufacturer's full range.

2.3 FASTENERS

- A. General: Provide fasteners of size and type indicated, acceptable to authorities having jurisdiction, and that comply with requirements specified in this article for material and manufacture. Provide nails or screws, in sufficient length, to penetrate not less than 1-1/2 inches into wood substrate.
 - 1. Use fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M or ASTM F 2329 unless otherwise indicated.
- B. Nails: ASTM F 1667.
- C. Power-Driven Fasteners: ICC-ES AC70.
- D. Wood Screws and Lag Screws: ASME B18.2.1, ASME B18.6.1, or ICC-ES AC233.
- E. Carbon-Steel Bolts: ASTM A 307 with ASTM A 563 hex nuts and, where indicated, flat washers all hot-dip zinc coated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean substrates of projections and substances detrimental to application.

3.3 INSTALLATION, GENERAL

- A. Set work to required levels and lines, with members plumb, true to line, cut, and fitted. Fit work to other construction; scribe and cope as needed for accurate fit.
- B. Framing Standard: Comply with AF&PA WCD1 unless otherwise indicated.
- C. Install plastic lumber to comply with manufacturer's written instructions.
- D. Secure decking to framing with screws.
- E. Install metal framing anchors to comply with manufacturer's written instructions.
- F. Do not splice structural members between supports unless otherwise indicated.
- G. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
- H. Sort and select lumber so that natural characteristics do not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of members or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
- I. Securely attach exterior rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 - 1. ICC-ES AC70 for power-driven fasteners.
 - 2. "Fastening Schedule" in ICC's International Building Code.
 - 3. "Fastener Schedule for Structural Members" and "Alternate Attachments" in ICC's International Residential Code for One- and Two-Family Dwellings.
- J. Use common wire nails unless otherwise indicated. Select fasteners of size that do not fully penetrate members where opposite side is exposed to view. Make tight connections between members. Install fasteners without splitting wood; do not countersink nail heads unless otherwise indicated.

FUSS & O'NEILL, INC. 20210668.A10

GREAT HOLLOW BEACH ACCESS IMPROVEMENTS TRURO, MA

K. For exposed work, arrange fasteners in straight rows parallel with edges of members, with fasteners evenly spaced and with adjacent rows staggered.

3.4 RAILING INSTALLATION

- A. Balusters: Fit to railings, nail in place. Countersink fastener heads, fill flush, and sand filler.
- B. Newel Posts: Secure to stringers and risers as noted in drawings.
- C. Railings: Fasten freestanding railings to newel posts as noted in drawings.

END OF SECTION

CONSTRUCTION DRAWING SET

HORZ.: NAD83

GRAPHIC SCALE

115 BROAD STREET BOSTON, MA 02110

TRURO

617.282.4675

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EXISTING CONDITIONS PLAN

GREAT HOLLOW BEACH ACCESS IMPROVEMENTS

EX-101

MASSACHUSETTS

File: J:\DWG\P2021\0668\A10\Civil\Plan\20210668.A10_EX01.dwg Layout: EX-101 Plotted: 2025-04-14 10:14 AM Saved: 2025-04-09 3:33 PM User: Leah.

No. DATE

DESCRIPTION

DESIGNER REVIEWER

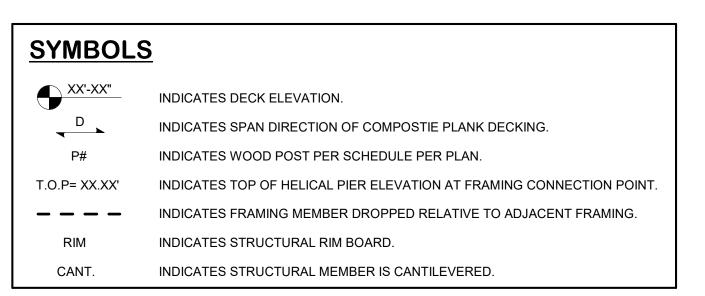
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 10TH EDITION OF THE MASSACHUSETTS STATE
- BUILDING CODE AND ITS APPLICABLE REFERENCED STANDARDS. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE CIVIL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE FOR A SAFE AND EFFICIENT METHOD
- OF SHORING AND/OR BRACING THE STRUCTURE DURING CONSTRUCTION. STRUCTURAL MEMBERS SHALL NOT BE MODIFIED IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. IN THE EVENT OF A CONSTRUCTION OR FABRICATION ERROR, THE CONTRACTOR SHALL PREPARE A SKETCH WITH A PROPOSED REPAIR, AND SUBMIT IT TO THE ARCHITECT AND ENGINEER OF RECORD. FOR APPROVAL PRIOR TO PERFORMING ANY CORRECTIVE WORK.
- SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL TRADES INDICATED HEREIN PRIOR TO PROCEEDING WITH FABRICATION AND/OR CONSTRUCTION. CONTRACTOR SHALL ALLOW FOR A 2 WEEK REVIEW PERIOD BY THE
- IN ANY CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL MAKE NO DEVIATION FROM CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE
- THESE DRAWINGS REPRESENT THE CONSTRUCTION DRAWINGS WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS,
- BRACING, SHEETING AND SHORING, ETC. TYPICAL DETAILS APPLY REPETITIVELY ON THE PROJECT. CONTRACTOR SHALL COORDINATE THE GENERAL REQUIREMENTS OF TYPICAL DETAILS WITH PROJECT CONDITIONS, PLANS, SPECIFICATIONS, AND SECTIONS.

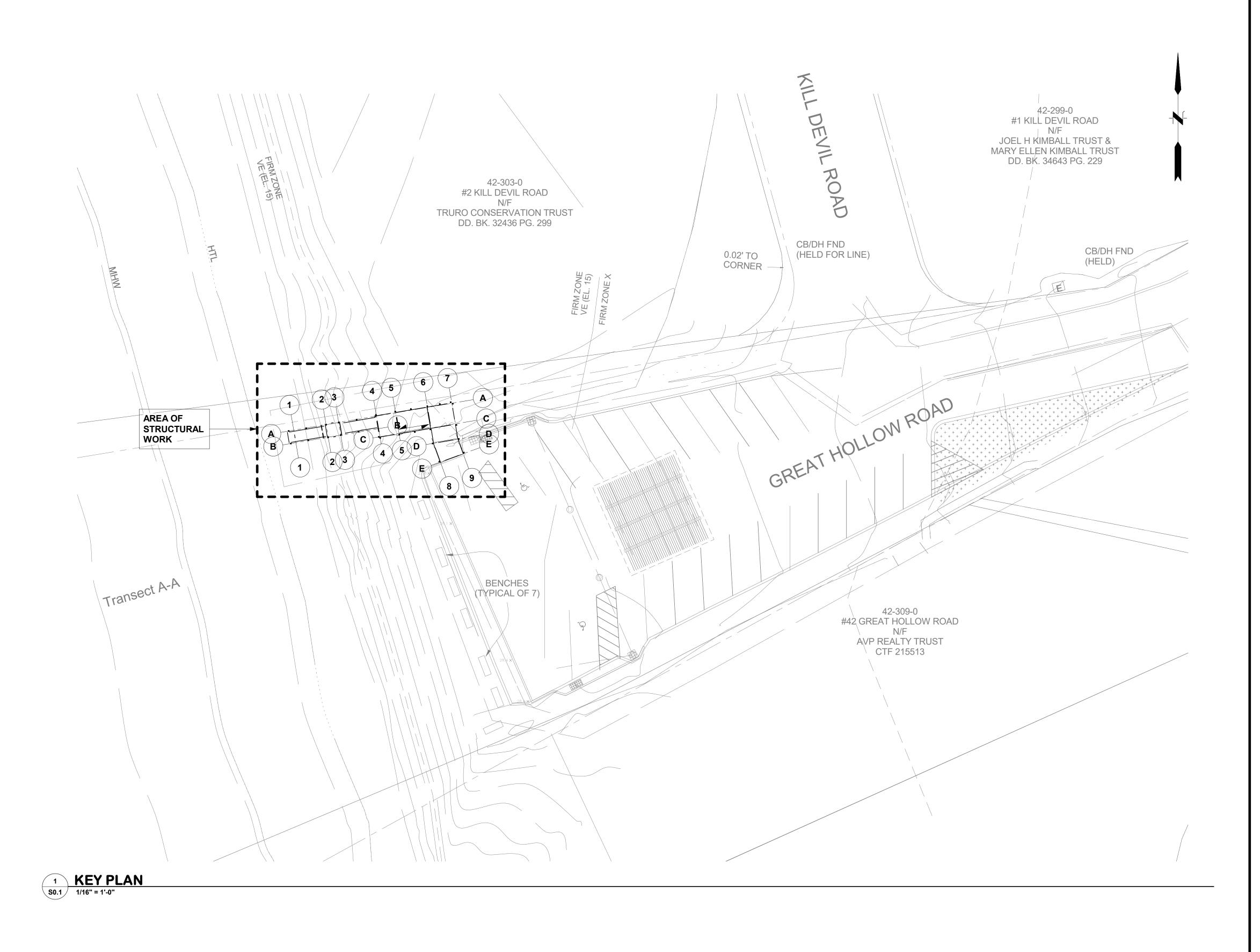
HELICAL PILES

- ALL HELICAL PILE (PIER) ASSEMBLIES AND ALL ASSOCIATED ACCESSORIES SHALL BE HOT DIPPED GALVANIZED
- REQUIRED PIER CAPACITY IS 2 TONS (4 KIPS). CONTRACTOR SHALL SUBMIT CALCULATIONS PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER IN GOOD STANDING WITH THE STATE OF MASSACHUSETTS, WITH REQUIRED HELICAL PIER DESIGN BASED UPON THE REQUIRED LOADS. DESIGN OF HELICAL PILE BRACKETS TO WOOD FRAMING ELEMENTS SHALL BE BY THE HELICAL PIER DESIGN ENGINEER.
- INSTALLATION TOLERANCES SHALL BE PER THE PIER MANUFACTURER'S CONSTRUCTION REQUIREMENTS. INSTALLATION RECORDS SHALL BE KEEP BY THE CONTRACTOR FOR EACH HELICAL PILE INSTALLED. THE RECORD SHALL INDICATE NAME OF THE CONTRACTOR AND PROJECT, NAME OF FIELD SUPERVISOR, DATE AND TIME OF INSTALLATION, TYPE OF TORQUE INDICATOR, NAME AND MODEL OF INSTALLATION EQUIPMENT, LOCATION OF HELICAL PIER BY UNIQUE IDENTIFICATION NUMBER, HELICAL PIER TYPE AND CONFIGURATION, TOTAL HELICAL PIER LENGTH, CUT OFF ELEVATION, FINAL INCLINE OF HELICAL PIER SHAFT INSTALLATION TORQUE AT 1FT INTERVALS FOR THE FINAL 10 FEET, AND RATED LOAD CAPACITY OF HELICAL PIER. INSTALLATION LOGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. CONTRACTOR SHALL NOT DEMOBILIZE FROM THE SITE UNTIL AND ENGINEER HAS REVIEWED THE INSTALLATION LOGS.

STRUCTURAL LUMBER / ROUGH CARPENTRY

- ALL WORK SHALL BE IN CONFORMANCE WITH THE AMERICAN FOREST AND PAPER ASSOCIATION STANDARDS
- ALL DIMENSIONAL LUMBER SHALL BE SOUTHERN YELLOW PINE NO. 2 OR BETTER 19% MOISTURE CONTENT OR
- PROVIDE METAL HANGERS AT ALL FLUSH FRAMED CONNECTIONS. ALL HANGERS SHALL BE AS MANUFACTURED
- BY SIMPSON-STRONG TIE, OR APPROVED EQUAL. ALL FASTENERS SHALL BE IN CONFORMANCE WITH THE FASTENING SCHEDULE IN THE 2021 INTERNATIONAL BUILDING CODE (TABLE 2304.10.2), UNLESS NOTED OTHERWISE. FASTENERS EXPOSED TO THE WEATHER SHALL
- BE HOT-DIP GALVANIZED OR STAINLESS STEEL. ALL FLOOR DECK SHALL BE 1"D x 5 1/2"W TREX COMPOSITE DECKING, OR APPROVED EQUIVALENT.
- ALL DECKING SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS SHOP DRAWINGS/SUBMITTALS ARE REQUIRED FOR THE FOLLOWING: WOOD FRAMING PLAN, WOOD PRODUCT SUBMITTAL AND CONNCETION HARDWARE PRODUCT SUBMITTALS. PHOTOCOPYING OF CONTRACT DOCUMENTATION FOR SUBMITTAL PURPOSES SHALL NOT BE PERMITTED AND WILL BE REJECTED WITHOUT
- PROVIDE 2x SOLID BLOCKING FOR ALL SOLID SAWN WOOD JOISTS AT 8'-0" ON-CENTER MAXIMUM SPACING AND 2x SOLID BLOCKING BETWEEN JOISTS AT ALL SUPPORTS AND RAILINGS.

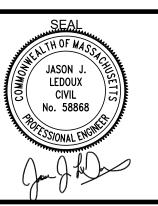




CONSTRUCTION DOCUMENTS

MASSACHUSETTS

DESCRIPTION DESIGNER REVIEWER





GRAPHIC SCALE

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860.646.2469

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TRURO

TOWN OF TRURO

STRUCTURAL NOTES AND KEY PLAN

GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS

S_{0.1}

02/14/2025

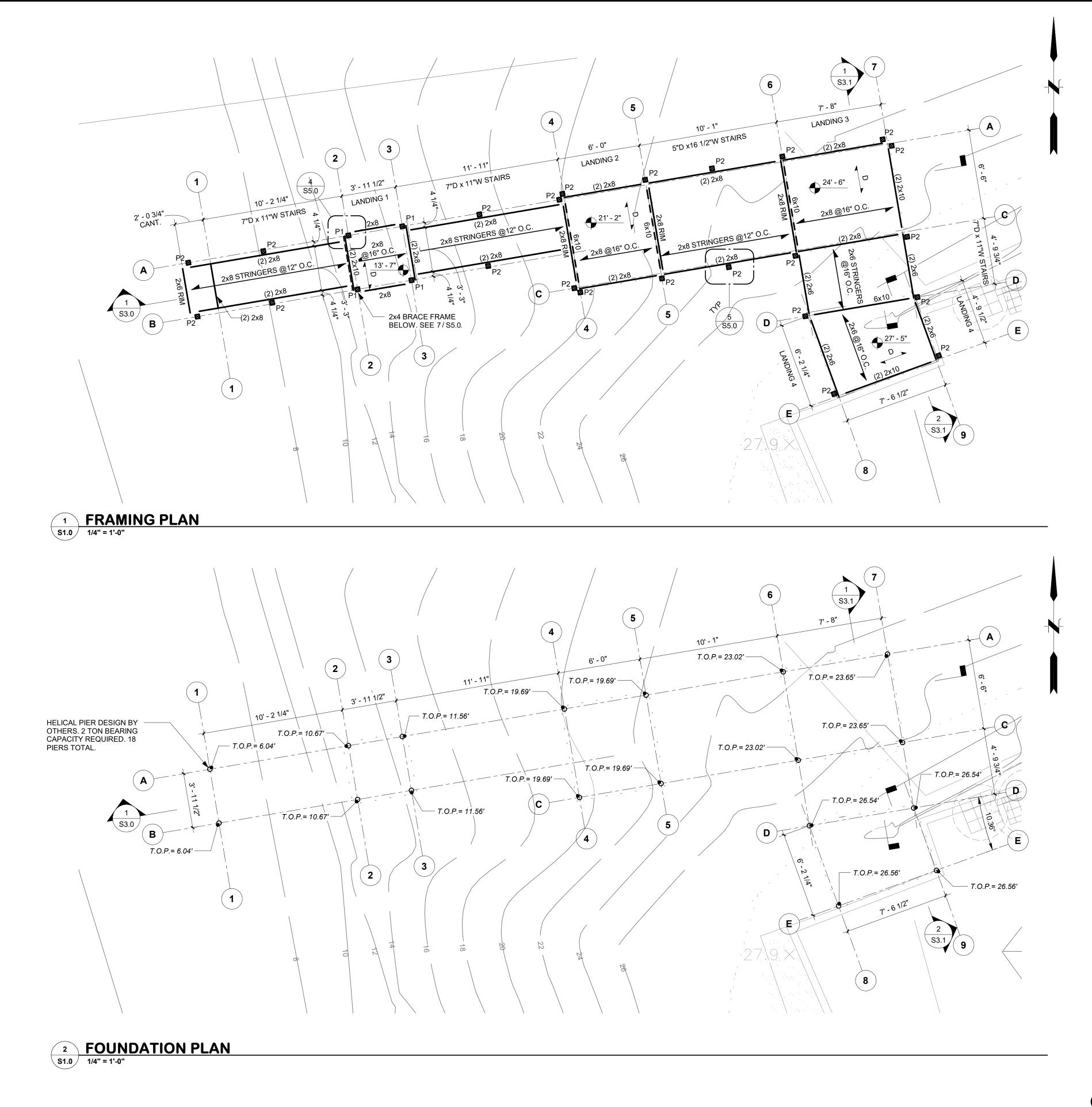
FOUNDATION PLAN NOTES

- 1. FOUNDATIONS SHALL BE HOT DIPPED GALVANIZED HELICAL
- PIERS DESIGNED BY A PROFESSIONAL ENGINEER IN GOOD STANDING WITH THE STATE OF MASSACHUSETTS.
- TOP OF PIER ELEVATIONS SHALL BE AS SPECIFIED ON THE
- INSTALLATION OF PIERS SHALL BE PER THE PIER MANUFACTURER'S CONSTRUCTION REQUIREMENTS.
- 4. SEE GENERAL NOTES ON S0.1 SHEETS FOR ADDITIONAL

WOOD FRAMING PLAN NOTES

- DECKING SHALL BE 1"D x 5 1/2"W PLANK TREX DECKING W/ELEVATIONS AS NOTED.
- BLOCK BETWEEN JOISTS AND STRINGERS AT SPACING NO GREATER
- COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH CIVIL
- DRAWINGS AND/OR EXISTING CONDITIONS.
 ALL NAILING SHALL BE FASTENED IN ACCORDANCE WITH TABLE
- 2304.10.1 OF THE 2015 INTERNATIONAL BUILDING CODE, OR TABLE R602.3(1) OF THE 2015 INTERNATIONAL RESIDENTIAL CODE AS
- WOOD POSTS SHALL BE CONTINUOUS TO FOUNDATION UNLESS NOTED OTHERWISE ON PLANS.
- SEE STRUCTURAL NOTES SHEET (S0.1) FOR ADDITIONAL INFORMATION.

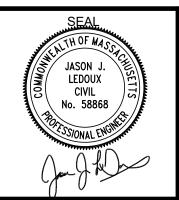
WO	OD POS	T SCHEDULE
P#	SIZE	DESCRIPTION
P1	4x4	STRUCTURAL BEARING POST
P2	4x4	RAILING POST



CONSTRUCTION DOCUMENTS

MASSACHUSETTS

DATE DESCRIPTION DESIGNER REVIEWER



HORZ. VERT. HORZ. VERT.

GRAPHIC SCALE

FUSS& 146 Hartford Road Manchester, Connecticut 06040

TRURO

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TOWN OF TRURO

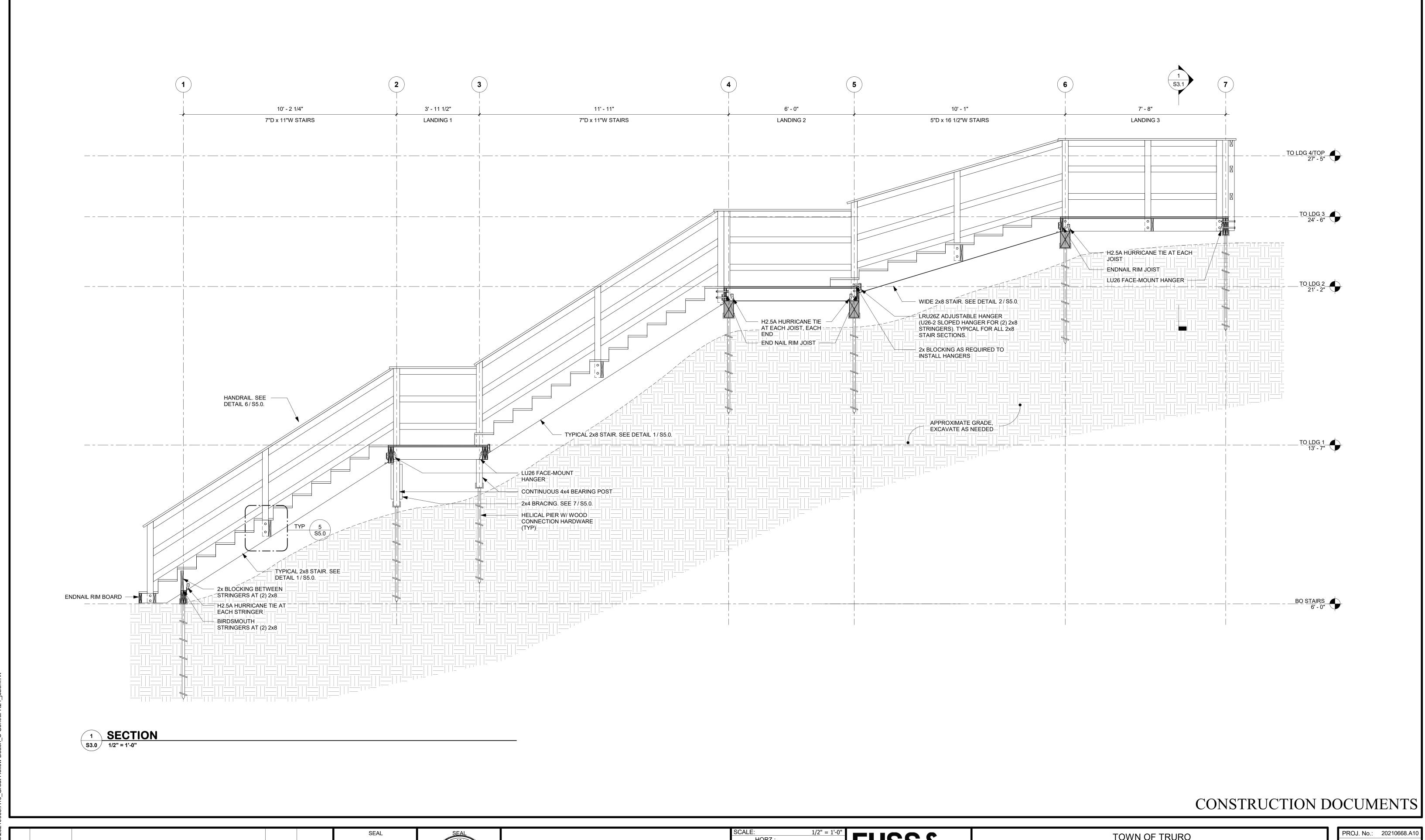
FOUNDATION AND FRAMING PLANS

GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS

S1.0

PROJ. No.: 20210668.A10

02/14/2025



DESCRIPTION

DESIGNER REVIEWER

JASON J.
LEDOUX
CIVIL
No. 58868

SCALE: 1/2" = 1'-0"

HORZ.:

VERT.:

DATUM.:

HORZ.:

VERT.:

146 Ha

GRAPHIC SCALE

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O'NEILL

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Manchester, Connecticut 06040
860.646.2469

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TOWN OF TRURO

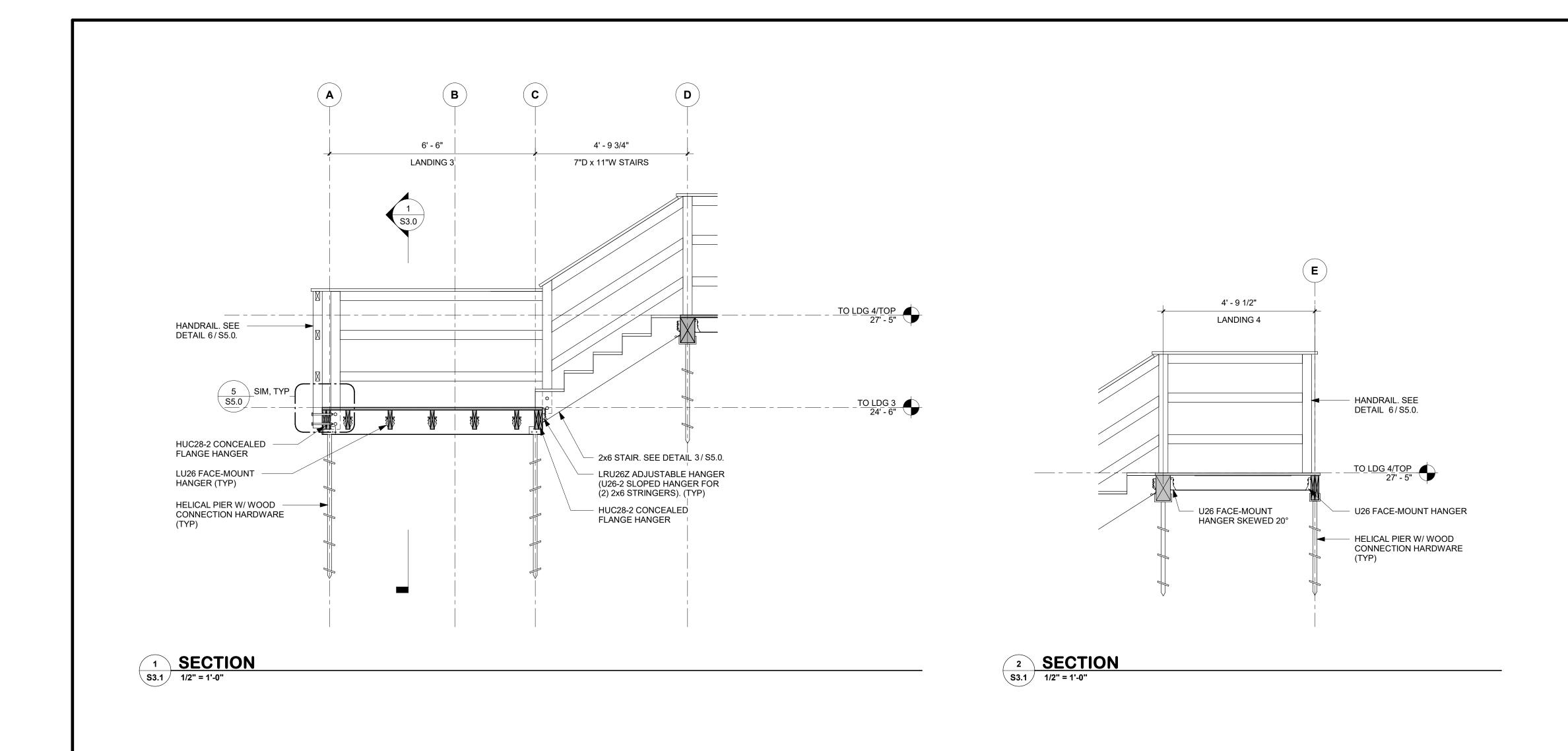
SECTIONS

GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS

TRURO

MASSACHUSETTS

DATE: 02/14/2025



CONSTRUCTION DOCUMENTS

SCALE: 1/2" = 1-0" HORZ: VERT: DATUM: HORZ:: VERT: DATUM: HORZ:: VERT: O'NEILL SECTIONS

SECTIONS

GRAPHIC SCALE

GRAPHIC SCALE

SCALE: 1/2" = 1-0" HORZ: VERT: GRAPHIC SCALE

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GRAPHIC SCALE

TOWN OF TRURO

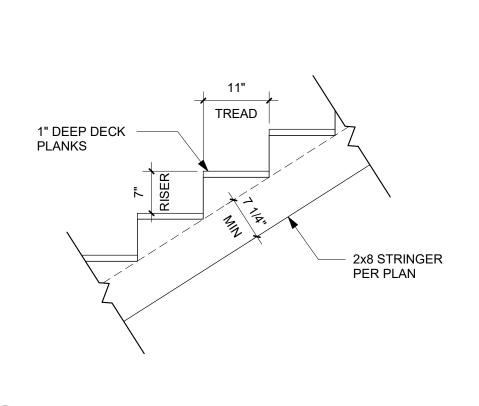
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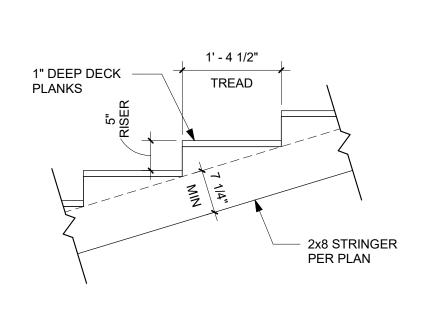
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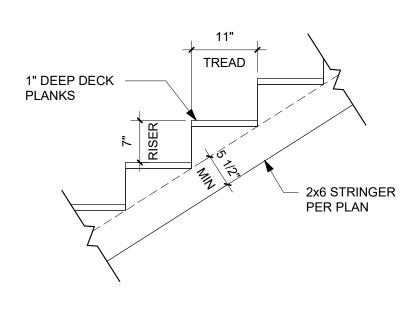
GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS

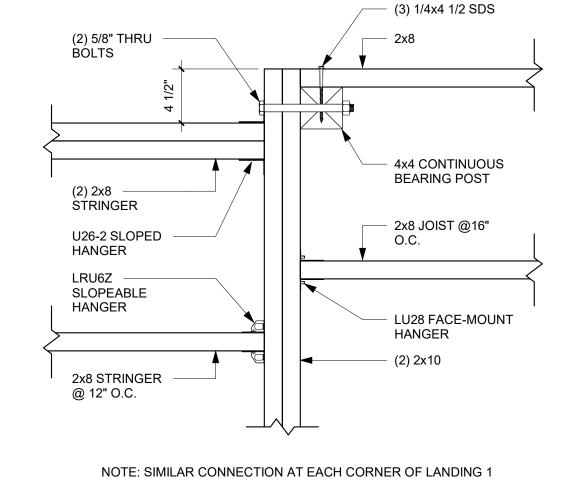
TRURO

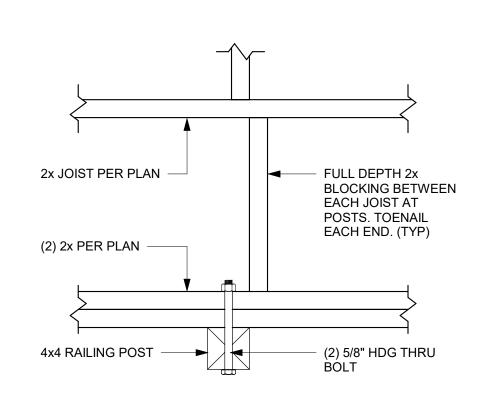
MASSACHUSETTS







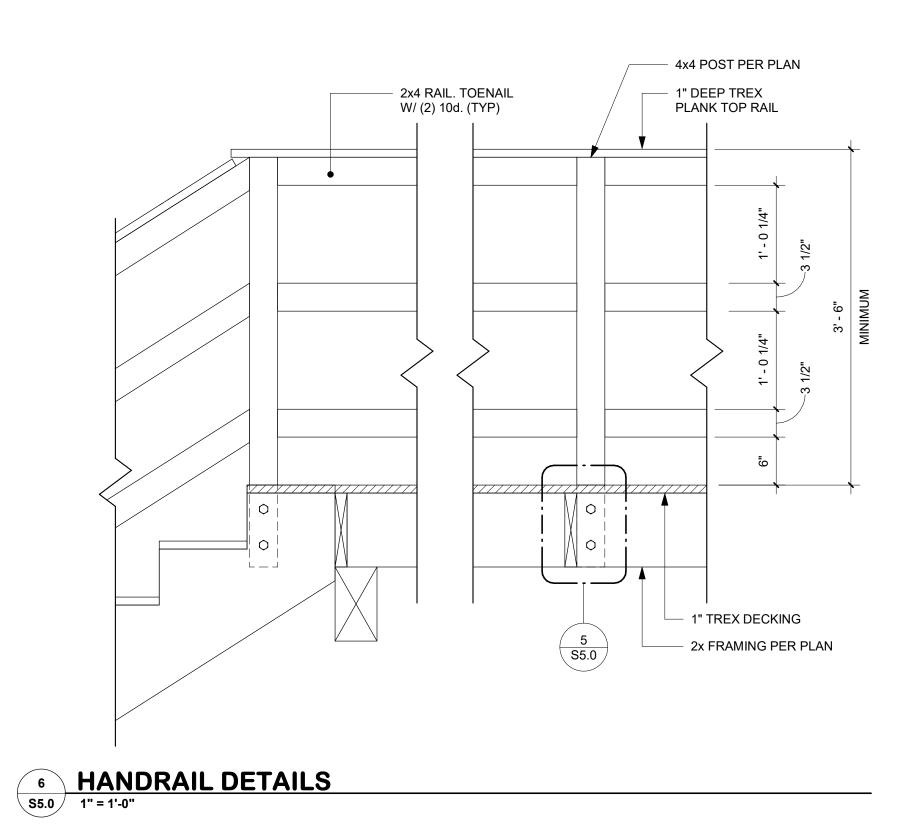


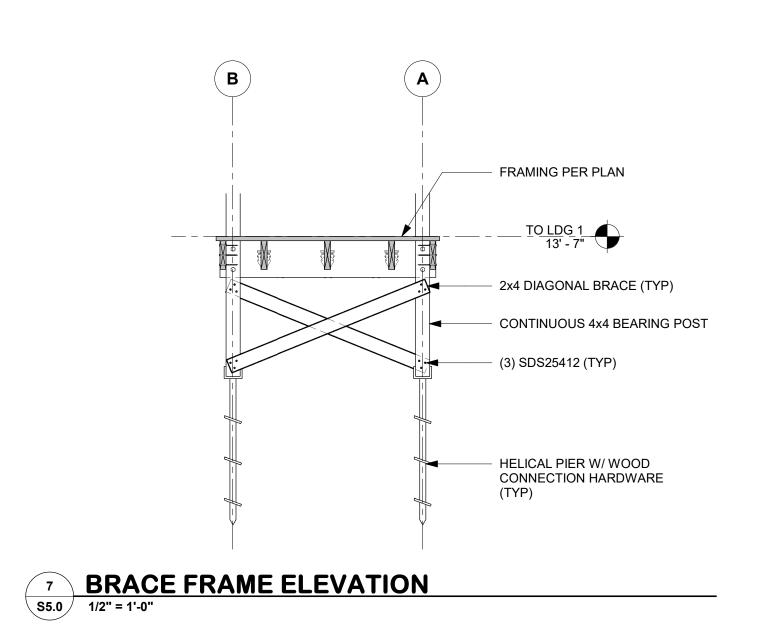


1 TYPICAL 2x8 STAIR
S5.0 3/4" = 1'-0"

2 WIDE 2x8 STAIR S5.0 3/4" = 1'-0" 3 TYPICAL 2x6 STAIR S5.0 3/4" = 1'-0" 4 DETAIL - LANDING 1 S5.0 1 1/2" = 1'-0" 5 RAILING POST CONNECTION

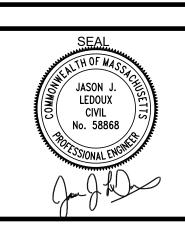
1 1/2" = 1'-0"

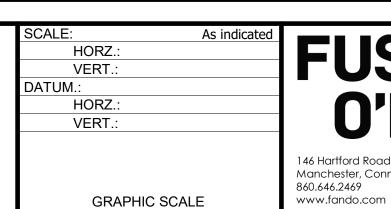




CONSTRUCTION DOCUMENTS

No. DATE DESCRIPTION DESIGNER REVIEWER







TRURO

TOWN OF TRURO

STRUCTURAL DETAILS

GREAT HOLLOW BEACH PUBLIC ACCESS IMPROVEMENTS

MASSACHUSETTS

S5.0

02/14/2025

c:\Users\jeberli\Documents\20210668.A10_Great Hollow Beach_

Exhibit A

Geotechnical Information



PROJECT NUMBER: 20210668.A10

PROJECT NAME: Great Hollow Beach

ADDRESS: Great Hollow Rd, Truro, MA **START DATE:** 10/16/2024 8:45 AM END DATE: 10/16/2024 12:00 PM

DRILLING COMPANY:Geologic

DRILLER: Scott

DRILLING METHOD: Drive and Wash

LOCATION: See Plan TOTAL DEPTH: 42 feet COORDINATES: 1041292.37, 2831892.88

DATUM: NAV83

SURFACE ELEVATION: 26.8 feet VERTICAL DATUM: NAVD88 LOGGED BY: Rebecca Meyers

CHECKED BY: CJC

SAMPLER: Type: Split Spoon Length (ft): 2

Outside Dia. (in): 2

HAMMER: Type: Automatic Weight (lb): 140 Fall (in.): 30

DRILL RIG: Type: Truck Model: CME 55 COMMENTS:

Installed monitoring well screen at depth of 32 to 42 feet. Backfill: (0-2 ft) Cement; (2-28 ft) Native Drill Cuttings; (28-30 ft)

Bentonite Chips; (30-42 ft) Silica Sand

DRILLING ADVANCEMENT:

(0-2 ft.) Hollow Stem Auger; (2-42 ft.) Drive and Wash

Drilling Fluid: (0-2 ft.) Water; (2-42 ft.) Water

WATER LEVEL DATA:

Date: 2024-10-16, Time: 12:30, Water Level 24.03 ft

Depth ft)	Samples No./ Interval (ft)	Rec / Pen. (in)	Sample Blows per 6in.	Stratum Graphic	Backfill / Well Diagram	Visual - Manual Ide	ntification & Descripti	ion Remarks
	SS-1 0 - 2	18/4	8 11 14			6' of PAVEMENT, dry Medium dense, light bro little Silt, trace Gravel, r	own, fine-medium SANI noist	Roller bit drilling through asphalt O,
	SS-2 2 - 4	24/8	11 11 21 23		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Dense, light brown, fine trace Gravel, moist	-medium SAND, little S	- 2
- 5	SS-3 4 - 6	24/7	7 7 7 5		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Medium dense, light bro Silt, trace Gravel, wet	own, medium SAND, tra	Switched to drive and wash.
	SS-4 6 - 8	24/6	4 3 5 7		SCHOOLEGENSCHOOLEGENSCH FURSPARSPARSPARSPARSPARSPARSPARSPARSPARSPA	Loose, brown, fine-med Gravel, moist	lium SAND, little Silt, tra	
10	SS-5 8 - 10	24/8	3 6 8 8			Medium dense, light bro Silt, trace Gravel, wet	own, medium SAND, tra	- 2

SS: Split Spoon

ST: Shelby Tube

GS: Grab Sample

ET: Extruded Tube

C: Rock Core

Very Soft: 0-2

Medium Stiff: 4-8

Very Stiff: 15-30

Soft: 2-4

Stiff: 8-15

Very Loose: 0-4

Medium Dense: 10-30

Loose: 4-10

Dense: 30-50

Very Dense: >50

visual-manual methods per ASTM D2488 and using the

Well Construction: 3 inch PVC monitoring well to a depth of 42 ft bgs, with 3 inch Slotted PVC screen set

modified Burmister System

from 32-42 feet

Proportions:

And: 35-50%

Some: 20-35%

Little: 10-20%

Trace: 35-50%

	1						UNEILL	
c Depth ft)	Samples No./ Interval (ft)	Rec / Pen. (in)	Sample Blows per 6in.	Stratum Graphic	Backfill / Well Diagram	Visual - Manual Identification & Description	Remarks	Elevation (ft)
_	SS-6 10 - 12	24/12	5 6 10 11		<u> </u>	Medium dense, light brown, medium SAND, trace Silt, trace Gravel, wet		
_	SS-7 12 - 14	24/16	6 9 12 14		19699166991669916699166991669916699166	Medium dense, light brown, trace red spots, fine-medium SAND, trace Silt, moist		_ — 15
- 15	SS-8 14 - 16	24/10	7 8 11 12			Medium dense, light brown, fine-medium SAND, trace Silt, wet		-
_	SS-9 16 - 18	24/10	15 11 12 14		<u>1630,4630,5630,5630,566</u> 0,500,500,500,500,500,500,500,500,500,5	Medium dense, light brown, medium SAND, trace Silt, wet		_
_	SS-10 18 - 20	24/10	6 10 11 12			Medium dense, light brown, trace red marks, medium SAND, trace Silt, wet		10
- 20 -	SS-11 20 - 22	24/9	9 9 8 12		30000000000000000000000000000000000000	Medium dense, light brown, trace red lines, medium SAND, trace Silt, wet		-
_	SS-12 22 - 24	24/12	11 11 9 6		2630.2020.2020.2020.2020.2020.2020.2020.	Medium dense, light brown, medium SAND, trace Silt, wet		- 5
- 25	SS-13 24 - 26	24/12	5 5 9 16		58256825683 >- 0632668356835	Medium dense, brown-red, fine-medium SAND and SILT, moist		-

					1		UNEILL	
Depth ft)	Samples No./ Interval (ft)	Rec / Pen. (in)	Sample Blows per 6in.	Stratum Graphic	Backfill / Well Diagram	Visual - Manual Identification & Description	Remarks	Elevation (ft)
_	SS-14 26 - 28	24/16	19 24 36 27		<u>169056905690569</u> 90889088908890	Dense, light brown, fine-medium SAND, some Silt, moist		_
_	SS-15 28 - 30	24/12	12 13 17 16		10000000000000000000000000000000000000	Medium dense to dense, light brown, fine-medium SAND, some Silt, wet		_ 0 _
- 30	SS-16 30 - 32	24/8	15 15 13 15			Medium dense, light brown, one red line, fine-medium SAND, trace Gravel, trace Silt, wet		_
_	SS-17 32 - 34	24/24	16 19 22 28			Dense, brown-red, fine-medium SAND, trace Gravel, trace Silt, wet		-
- - 35	SS-18 34 - 36	24/8	10 13 16 17			Medium dense, brown-red, medium SAND, trace Gravel, trace Silt, wet		-
_	SS-19 36 - 38	24/22	22 14 17 17			Medium dense, brown-red, medium SAND, trace Gravel, trace Silt, wet		-
_	SS-20 38 - 40	24/7	10 13 14 18			Medium dense, brown, fine-medium SAND, trace Silt, trace Gravel, wet		— - 10
- 40	SS-21 40 - 42	24/12	10 14 22			Dense, brown, fine-medium SAND, trace Silt, trace Gravel, wet		

_							UNLILL	
Depth ft)	Samples No./ Interval (ft)	Rec / Pen. (in)	Sample Blows per 6in.	Stratum Graphic	Backfill / Well Diagram	Visual - Manual Identification & Description	Remarks	Elevation (ft)
			31					
						End of Boring Depth at 42 feet. End of Exploration, no refusal encountered.		- 15
_								_
45 								-
_								-
_								-2 0
- 50								- -
_								-
_								- 25
- - 55								_
_ 55								-



PROJECT NUMBER: 20210668.A10 DRILLING COMPANY:Geologic

PROJECT NAME: Great Hollow Beach DRILLER: Scott

Fall (in.): 30

Outside Dia. (in): 2

ADDRESS: Great Hollow Rd, Truro, MA
START DATE: 10/16/2024 2:11 PM
END DATE: 10/16/2024 4:20PM
DRILLING METHOD: Drive and Wash
LOCATION: Upstream Boring
TOTAL DEPTH: 30 feet

COORDINATES: 1041305.13, 2831922.63

DATUM: NAV83

SURFACE ELEVATION: 27.5 feet VERTICAL DATUM: NAVD88 LOGGED BY: Rebecca Meyers CHECKED BY:XXX CJC

SAMPLER: HAMMER: DRILL RIG: COMMENTS: Type: Split Spoon Type: Automatic Type: Truck None

Length (ft): 2 Weight (lb): 140 Model: CME 55 Backfill: (0-5 ft) Bentonite Chips; (5-30 ft) Native Drill Cuttings

DRILLING ADVANCEMENT: WATER LEVEL DATA:

(0-30 ft.) Drive and Wash

Date: 2024-10-16, Time: 4:26, Water Level: 24.2 ft

Drilling Fluid: (0-30 ft.) Water

Don'th #1	Samples No./ Interval (ft)	Rec / Pen. (in)	Sample Blows per 6in.	Stratum Graphic	Backfill / Well Diagram	Visual - Manual Ide	entification & Descripti	on	Remarks	Elevation (ft)
	SS-1 0 - 2	18/12	!			6' of PAVEMENT, dry			Roller bit drilling through asphalt	
			12 12 13			Medium dense, brown, dry	fine-medium SAND, littl	le Silt,		_
-	SS-2 2 - 4	24/4	14 10 10 7			dry	fine-medium SAND, littl			-
- 5	SS-3 4 - 6	24/12	10 12 8 8 8		77:35 87:35 90:55 90:55 90:55 90:55 90:55	Medium dense, brown, Silt, dry	fine-medium SAND, tra	ce		— 44 5
_	SS-4 6 - 8	24/12	9 9 9			Medium dense, brown, trace Gravel, wet	medium SAND, trace S	ilt,		_
	SS-5 8 - 10		2 3 6			trace Gravel, wet	medium SAND, some S			_
Miı	nor Constitu	ient S	oil Den	sity:		Soil Consistency:	Sample Type:	Notes	Soil identifications and field tests based o	n

SS: Split Spoon

ST: Shelby Tube

GS: Grab Sample

ET: Extruded Tube

C: Rock Core

Very Soft: 0-2

Medium Stiff: 4-8

Very Stiff: 15-30

Soft: 2-4

Stiff: 8-15

Very Loose: 0-4

Medium Dense: 10-30

Loose: 4-10

Dense: 30-50

Very Dense: >50

visual-manual methods per ASTM D2488 and using the

modified Burmister System

Well Construction:

Proportions:

And: 35-50%

Some: 20-35%

Little: 10-20%

Trace: 35-50%

							UNCILL	
Depth ft)	Samples No./ Interval (ft)	Rec / Pen. (in)	Sample Blows per 6in.	Stratum Graphic	Backfill / Well Diagram	Visual - Manual Identification & Description	Remarks	Elevation (ft)
_	SS-6 10 - 12	24/7	6 7 8 12		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Medium dense, light brown, fine-medium SAND, trace Silt, trace Gravel, wet		
_	SS-7 12 - 14	24/14	12 13 13 15		90000000000000000000000000000000000000	Medium dense, light brown, fine-medium SAND, trace Silt, trace Gravel, wet		_
- 15	SS-8 14 - 16	24/8	8 8 9		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Medium dense, light brown, fine-medium SAND, trace Silt, trace Gravel, wet		— 43 5
_	SS-9 16 - 18	24/12	11 10 12 11		######################################	Medium dense, light brown, medium SAND, trace Silt, trace Gravel, wet		-
_	SS-10 18 - 20	24/6	10 8 8 8		######################################	Medium dense, brown, fine-medium SAND, trace Silt, approx. 1.5' rock, wet		- 430
- 20 -	SS-11 20 - 22	24/8	7 8 9 11		######################################	Medium dense, brown, medium SAND, trace Silt, trace Gravel, wet		43 0
_	SS-12 22 - 24	24/14	12 13 15 16		78000000000000000000000000000000000000	Medium dense, brown, fine-medium SAND, trace Silt, trace Gravel, wet	Paused drilling for 15 minute break.	_
- 25	SS-13 24 - 26	24/12	11 13 16 17		10000000000000000000000000000000000000	Medium dense, brown, fine-medium SAND, trace Silt, trace Gravel, wet		- 425

							UNEILI	
Depth ft)	Samples No./ Interval (ft)	Rec / Pen. (in)	Sample Blows per 6in.	Stratum Graphic	Backfill / Well Diagram	Visual - Manual Identification & Description	Remarks	Elevation (ft)
					0,000 0 0,000 0,000 0,000 0,000 0,000 0,000 0 0,000 0 0 0 0 0 0 0 0 0 0			
_	SS-14 26 - 28	24/13	19 17 16 14		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Dense, brown-red, medium SAND, trace Gravel, trace Silt, wet		_
_	SS-15 28 - 30	24/3	4 10 12 16			Medium dense, brown-red, fine SAND and SILT, some Gravel, wet	Backfilled borehole with soil cuttings and benetonite chips. Cover with cold patch asphalt.	_
-30						End of Boring Depth at 30 feet. End of Exploration,		420
_						no refusal encountered.		_
-								-
– 35								— 4 15
-								_
-								_
-								_
-								_
– 40								- 410



195 Frances Avenue Cranston RI, 02910 Phone: (401)-467-6454 Fax: (401)-467-2398 cts.thielsch.com Let's Build a Solid Foundation Client Information: Fuss & O'Neill Providence, RI

Project Manager: Katie Cretella Assigned By: Katie Cretella Collected By: KMC Project Information:

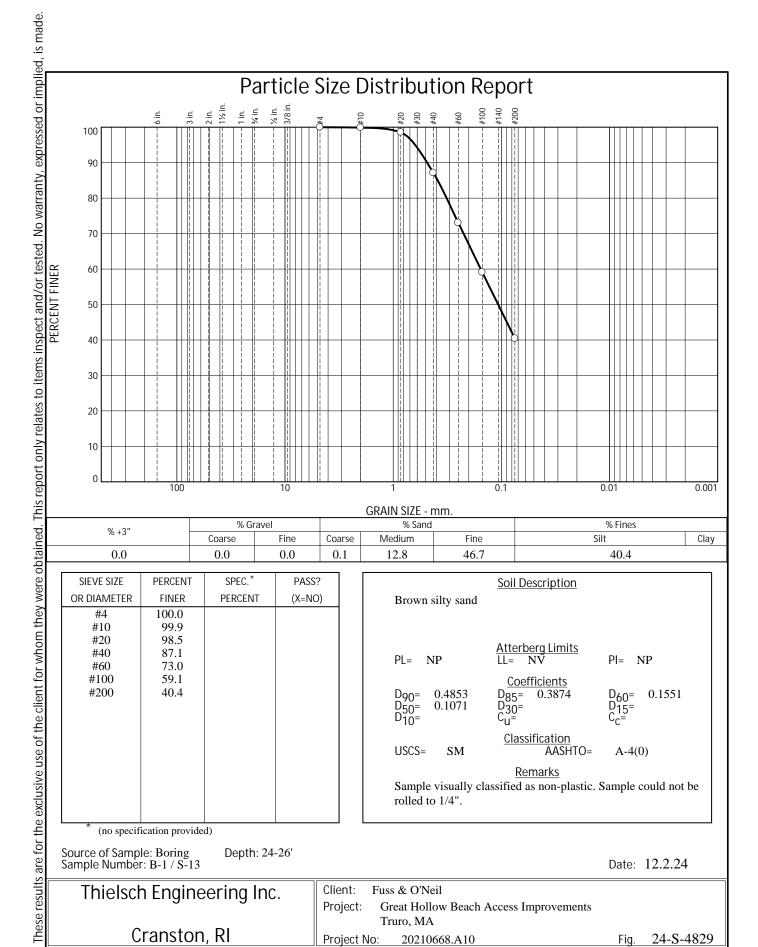
Great Holllow Beach Access Improvements Great Hollow Road, Truro, MA

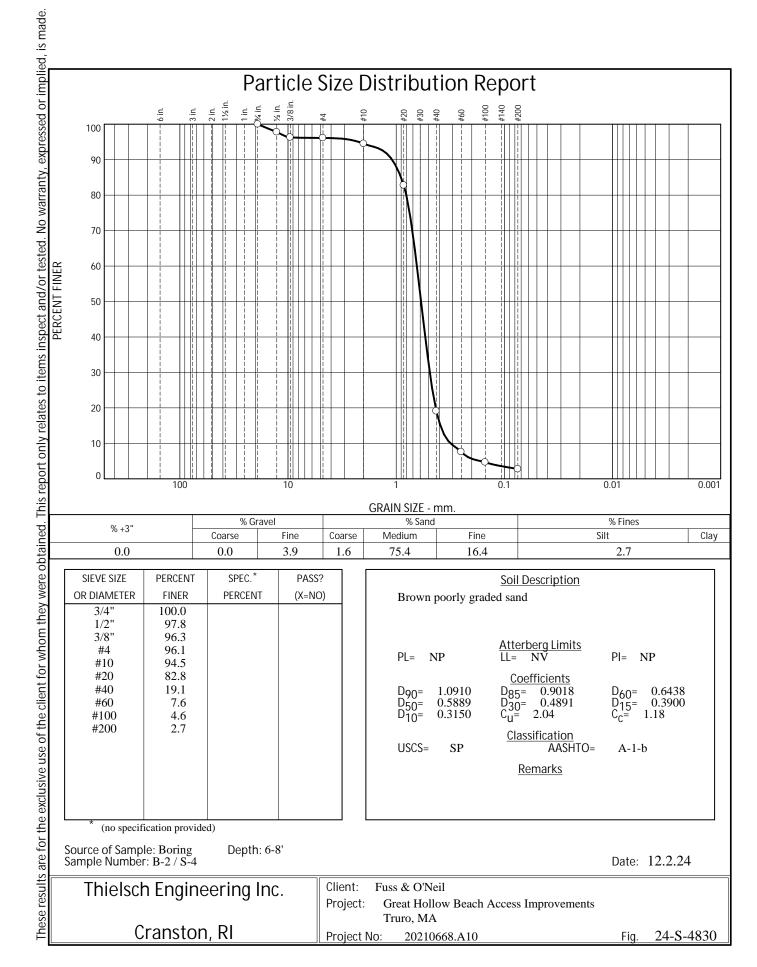
Project Number: 20210668.A10 Summary Page: 1 of 1 Report Date: 12.02.24

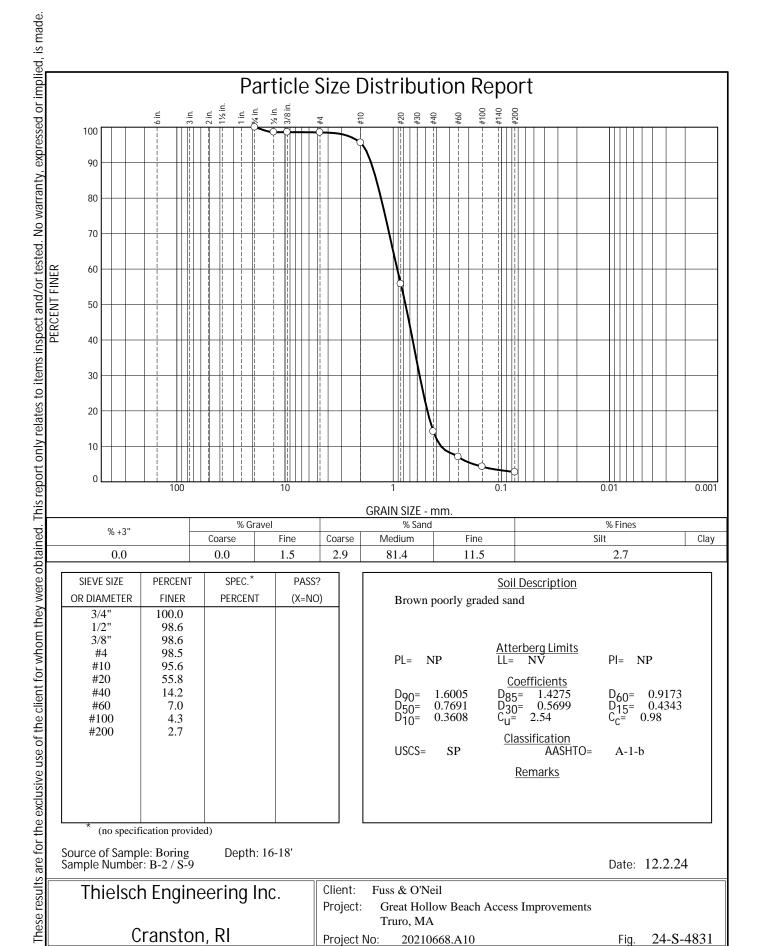
LABORATORY TESTING DATA SHEET, Report No.: 7424-L-266

							lder	ntificatio	n Tests						Pro	ctor / CBR /	Permeability	y Tests			
Boring No.	Sample ID	Depth (ft)	Laboratory No.	As Rcvd Moisture Content %	LL %	%	OD LL	Gravel %	%	Fines %	Org. %	рН	g _d MAX (pcf) W _{opt} (%)	g _d <u>MAX (pcf)</u> W _{opt} (%) (Corr.)	Dry unit wt. (pcf)	Test Moisture Content %	Target Test Setup as % of Proctor	CBR @ 0.1"	CBR @ 0.2"	Permeability cm/sec	Laboratory Log and Soil Description
				D2216	D43	318			D6913		D2974	D4792	D1:	557							
B-1	S-4	6-8	24-S-4828					1.9	83.4	14.7											Brown silty sand
B-1	S-13	24-26	24-S-4829					0.0	59.6	40.4											Brown silty sand
B-2	S-4	6-8	24-S-4830					3.9	93.4	2.7											Brown poorly graded sand
B-2	S-9	16-18	24-S-4831					1.5	95.8	2.7											Brown poorly graded sand
		ı	1	1		1 1	ıI				I				1	<u> </u>			1	1	
l .														lifet							
Date	Received:		11.21.24		=					Revie	wed By	/ :	1	Marie (-			Date Re	viewed:	12.02.24

Tested By: AB/MCS Checked By: Rebecca Roth







Slug Test Analysis Report

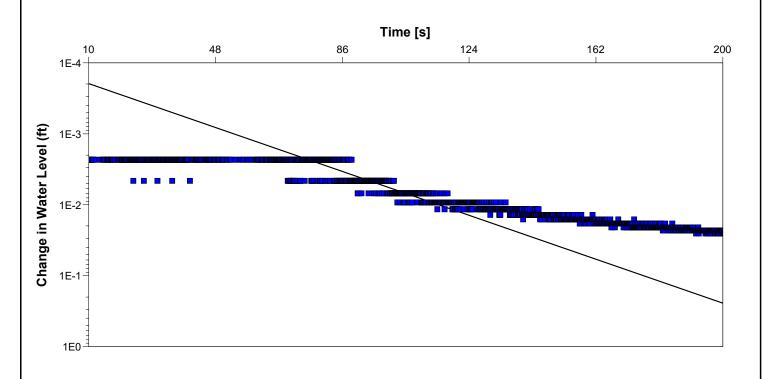
Project: Great Hollow Beach

Number: 20210668.A10

Client: Town of Truro

Location: Great Hollow Road, Truro, MA	Slug Test: MW1 FH1	Test Well: Well 1
Test Conducted by: DRN		Test Date: 10/22/2024
Analysis Performed by: KMC	MW1 FH1	Analysis Date: 2/24/2025

Aquifer Thickness: 15.40 ft



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity	
	[ft/s]	
Well 1	-4.81 × 10 ⁻⁶	

Test performed at 3:19. Analysis method conducted from the interval of 94s to 110s.

Location: Great Hollow Road, Truro, MA

Slug Test Analysis Report

Project: Great Hollow Beach

Test Well: Well 1

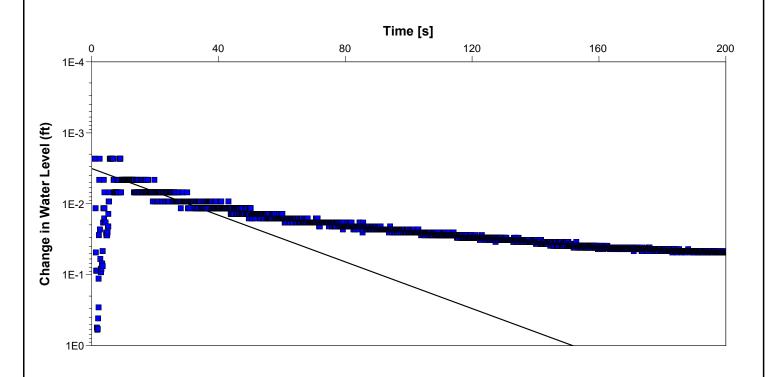
Number: 20210668.A10

Client: Town of Truro

Slug Test: MW1 FH2 Test Conducted by: DRN Test Date: 10/22/2024

Analysis Performed by: KMC MW1 FH2 Analysis Date: 2/24/2025

Aquifer Thickness: 15.40 ft



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity	
	[ft/s]	
Well 1	-4.86 × 10 ⁻⁶	

Test performed at 3:31. Analysis method conducted from the interval of 9s to 25s.

Slug Test Analysis Report

Project: Great Hollow Beach

Number: 20210668.A10

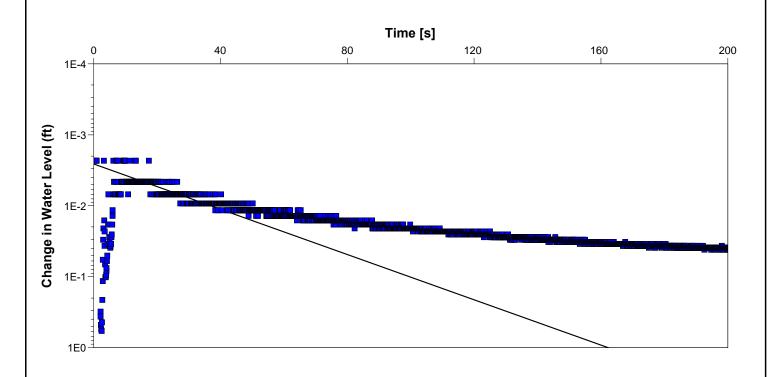
Client: Town of Truro

Location: Great Hollow Road, Truro, MA Slug Test: MW1 FH3 Test Well: Well 1

Test Conducted by: DRN Test Date: 10/22/2024

Analysis Performed by: KMC MW1 FH3 Analysis Date: 2/24/2025

Aquifer Thickness: 15.40 ft



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity	
	[ft/s]	
Well 1	-4.72 × 10 ⁻⁶	

Test performed at 3:44. Analysis method conducted from the interval of 17s to 33s.

Slug Test Analysis Report

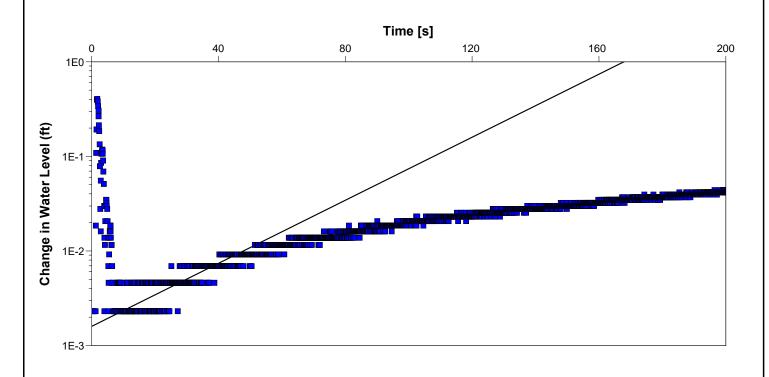
Project: Great Hollow Beach

Number: 20210668.A10

Client: Town of Truro

Location: Great Hollow Road, Truro, MA	Slug Test: MW1 RH1	Test Well: Well 1
Test Conducted by: DRN		Test Date: 10/22/2024
Analysis Performed by: KMC	MW1 RH1	Analysis Date: 2/24/2025

Aquifer Thickness: 15.40 ft



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity	
	[ft/s]	
Well 1	-4.92 × 10 ⁻⁶	

Test performed at 3:25. Analysis method conducted from the interval of 23s to 35s.

Slug Test Analysis Report

Project: Great Hollow Beach

Town of Truro

Number: 20210668.A10

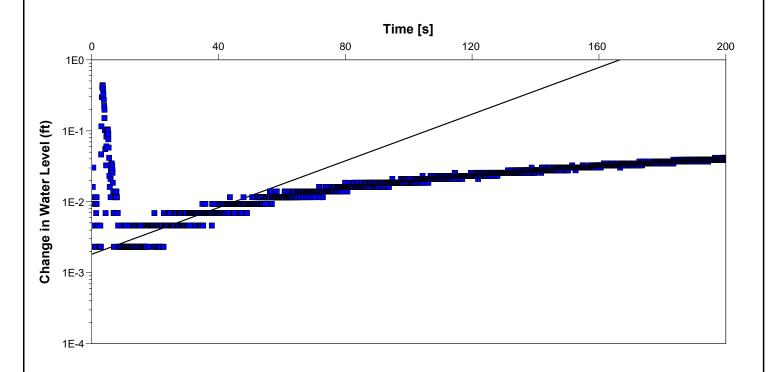
Client:

Location: Great Hollow Road, Truro, MA Slug Test: MW1 RH2 Test Well: Well 1

Test Conducted by: DRN Test Date: 10/22/2024

Analysis Performed by: KMC MW1 RH2 Analysis Date: 2/24/2025

Aquifer Thickness: 15.40 ft



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity	
	[ft/s]	
Well 1	-4.86 × 10 ⁻⁶	

Test performed at 3:38. Analysis method conducted from the interval of 20s to 37s.

Slug Test Analysis Report

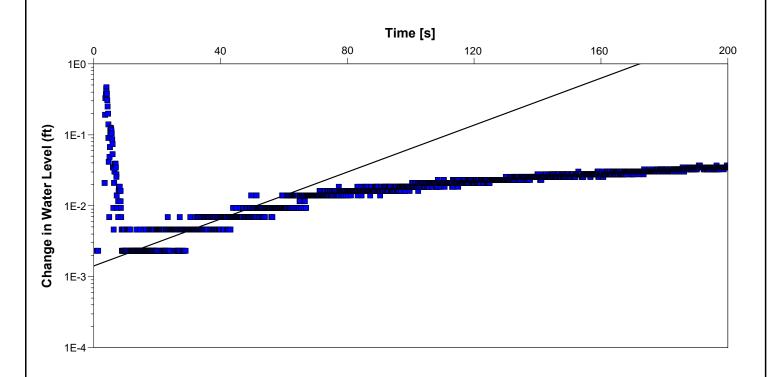
Project: Great Hollow Beach

Number: 20210668.A10

Client: Town of Truro

Location: Great Hollow Road, Truro, MA	Slug Test: MW1 RH3	Test Well: Well 1
Test Conducted by: DRN		Test Date: 10/22/2024
Analysis Performed by: KMC	MW1 RH3	Analysis Date: 2/24/2025

Aquifer Thickness: 15.40 ft



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity	
	[ft/s]	
Well 1	-4.89 × 10 ⁻⁶	

Test performed at 3:50. Analysis method conducted from the interval of 25s to 42s.

