

**TOWN OF CHESAPEAKE CITY
GENERAL CONDITIONS FOR ALL SEALED BIDS
INVITATION TO BID**

Sealed bids shall be addressed to the Mayor of Chesapeake City, MD for furnishing and delivering:

**TITLE: PROPOSED RE-DECKING OF FLOATING DOCK
 BACK CREEK BASIN, CHESAPEAKE CITY MUNICIPAL DOCK**

Sealed Bids shall be accepted by the Office of the Mayor, 108 Bohemia Avenue, Chesapeake City, MD 21915 until 2:00 *p.m. local time on January 20, 2015* at which time they will be opened and read aloud.

GENERAL INSTRUCTIONS

1. INSTRUCTIONS, FORMS AND SPECIFICATIONS

Instructions, forms and specifications are contained herein. Additional copies may be obtained in person or by mail from the Town of Chesapeake City, MD, 108 Bohemia Avenue, Chesapeake City, MD 21915.

- a. All bids are to be submitted on and in accordance with the bid forms for this purpose, which are attached hereto. Bids shall be addressed to the Town of Chesapeake City, Mayor's Office, 108 Bohemia Avenue, MD 21915 and shall be mailed or hand delivered at anytime before the scheduled opening (note: for office hours call 410-885-5298).
- b. All bids shall be submitted in sealed, plainly marked envelopes supplied by the bidder. Envelopes shall clearly state Project Title, Bid Number, Bid Date and Time, and name of Bidder.
- c. Additional information or clarifications on any of the instructions or information contained may be obtained from the Town Office.
- d. Any bidder finding any discrepancy in, or omission from the specifications, in doubt as to their meaning, or feeling that the specifications are discriminatory, shall notify the Town of Chesapeake City office immediately in writing, but not later the five (5) days prior to the scheduled opening of the bids. Exceptions, as taken, in no way obligate the Town to change the specifications. The Town shall notify all bidders in writing by addendum duly issued, of any changes to or interpretations made to specifications or instructions.
- e. The Town of Chesapeake City assumes no responsibility for oral instructions or suggestions. All official correspondence in regard to the specifications shall be directed to and shall be issued by the Mayor or his assignee.

2. TOWN OF CHESAPEAKE CITY CONTRACTOR EVALUATION AND SELECTION PROCESS:

- a. The Town shall review the qualifications of all bidders and shall uniformly evaluate them. Qualifications shall be evaluated by an objective process. Said process may include the appointment of a review committee, which, to the extent practicable should include persons with appropriate skills. Criteria to be considered in the evaluation of bidders for submission of proposals should include:
 - i. Specialized experience and professional competence.
 - ii. Past record of Performance on contracts with the Town or with other entities.
 - iii. Capacity of the bidder to perform the work.
 - iv. Avoidance of personal and organizational conflict of interests prohibited under State and local law.
- b. Information obtained in the evaluations shall be treated as confidential except when Federal, State or local law requires disclosure.
- c. At no time during the entire procurement process shall information, which would provide an unfair competitive advantage, be conveyed to any candidate.
- d. The Town's evaluation shall be made on the following:
 - i. The quality of work (or items) to satisfy minimum project needs ;
 - ii. Prices quoted, and consideration of other prices for the same or similar items or work ;
 - iii. The business reputations, capabilities, responsibilities and past performance of the respective persons or firms who submitted bids ;
 - iv. Delivery requirements ;
 - v. Capacity to perform the work within required time limits ;
 - vi. Requirements for the avoidance of personal and organizational conflicts of interest.

3. AWARD OF CONTRACTS

- a. The Town of Chesapeake City shall award all contracts in accordance with recommendations from the Mayor, Town Council and the review committee (if deemed necessary) pursuant to the review process described above. This contract shall be entered into no earlier than seven (7) days after the public opening of bids.

- b. Any other considerations for the award will be stated on the specifications and bids.

4. RESERVATIONS

- a. The Town reserves the right to reject any or all proposals or portions thereof, when in their reasoned judgment, the public interest will be served thereby.
- b. The Mayor and/or Town Council may waive formalities or technicalities in bids as the interest of the Town may require.
- c. The Town may waive differences in specifications provided these differences do not violate the specifications intent nor materially affect the operation for which the item or items are being purchased, nor increase maintenance and repair cost to the Town.

5. DISPUTES

In cases of disputes as to whether or not an item or service quoted or delivered meets specifications, the decision of the Mayor and/or Town Council shall be final and binding on both parties.

6. AUTHORITY

Instructions, specifications, and proposals are issued, and all bids, quotations, orders and purchases are made, pursuant and subject to the authority of the Town.

7. EXCEPTION

The submission of a proposal shall be considered an agreement to all terms, conditions, and specifications provided herein and in the various proposal documents unless specifically noted otherwise in the proposal.

CONSTRUCTION BID FORM

Date: _____

Town of Chesapeake City, Cecil County
108 Bohemia Avenue
Chesapeake City, MD 21915
(410-885-5298)

Mayor:

We hereby submit our proposal for the following:

**RE-DECKING OF THE FLOATING DOCK AT BACK CREEK BASIN,
CHESAPEAKE CITY MUNICIPAL DOCK**

OWNER: Town of Chesapeake City, Cecil County, MD

Having carefully examined the "Instructions to Bidders", the "General Conditions", and the Specifications and Plans for the subject construction –

Specifications numbered: _____

Drawings numbered: _____

Addenda numbered _____

Amendment to Invitation to Bid _____

And having received clarification on all items of conflict or upon which any doubt arose, the undersigned proposes to furnish all labor, materials and equipment called for by the said documents for the entire work, in strict accordance with the Contract Documents, for the stipulated sum of:

LUMP SUM BASE BID _____ DOLLARS (\$) _____
(Words) (Figures)

The Base Bid is divided as follows:

- Mobilization/Demobilization _____
_____ DOLLARS (\$) _____
(Words) (Figures)

2. Dock Decking Replacement: _____
_____ DOLLARS (\$) _____
(Words) (Figures)

3. Electrical Upgrades: _____
_____ DOLLARS (\$) _____
(Words) (Figures)

4. Water Piping: _____
_____ DOLLARS (\$) _____
(Words) (Figures)

Base Bid shall be the controlling figure determining the value of the contract.

NOTE: The prices shall be written in both words and numbers. The Town of Chesapeake City reserves the right to accept or reject any or all bids.

SCHEDULE OF UNIT PRICES:

The following unit prices, if accepted in the award of the contract, shall be applied in computing the value of changes, additions, deletions, and substitutions which may be made in the work following the award of the contract. Each unit price shall include all work and incidentals necessary to complete the items.

NOTE: Prices shall be written in both words and figures.

1. 2"x4"x20' Stringers, ACQ treatment, installed _____
_____ DOLLARS (\$) _____ per board
(Words) (Figures)

2. 2"x8"x8' Decking, ACQ Treatment, installed _____
_____ DOLLARS (\$) _____ per board
(Words) (Figures)

3. 12" Horned Cleats (30), stainless steel, installed _____
_____ DOLLARS (\$) _____ Ea.
(Words) (Figures)

4. Hatteras Light Power Pedestal (3), Dual 30 amp, installed _____
 _____ DOLLARS (\$ _____) Ea.
 (Words) (Figures)
5. Hatteras Light Power Pedestal (2), Comb. 30/50 amp, installed _____
 _____ DOLLARS (\$ _____) Ea.
 (Words) (Figures)
6. Electrical conduit 2" Schedule 80 PVC, installed _____
 _____ DOLLARS (\$ _____) per linear foot.
 (Words) (Figures)

It is understood that the bid price will be firm for a time period of ninety (90) calendar days from the bid opening date, and that if the undersigned is notified through a Notice of Award of the acceptance of this proposal within this time period, he agrees to execute a contract for the above stated compensation and supply all required documents within fifteen (15) calendar days of the notification, and to guarantee the completion of this work in 90 calendar days thereafter.

(Maryland Contractor License Number) (Date Issued)

 (Place of Issuance)

Federal Employer I.D. Number _____

or if not an employer, Social Security No. _____

INDIVIDUAL PRINCIPAL

NAME _____

SIGNED _____

In the presence of Witness: _____

_____ TELEPHONE _____

CO-PARTNERSHIP PRINCIPAL

In the presence of Witness:

(NAME OF CO-PARTNERSHIP)

(ADDRESS) (TELEPHONE NO.)

_____ as to BY _____

(Partner)

_____ as to BY _____

(Partner)

_____ as to BY _____

(Partner)

CORPORATE PRINCIPAL

(NAME OF CORPORATION)

(ADDRESS) (TELEPHONE NO.)

Attest:

_____ as to BY _____

(Corporate Secretary)

(President)

(Affix Corporate Seal)

ALL BIDDERS:

The bidder represents, and it is a condition precedent to acceptance of this bid, that the bidder has not been a party to any agreements to bid a fixed or uniform price.

WITNESS:

(Signature of Officer and Title) (Seal)

NOTARY PUBLIC:

SUBSCRIBED AND SWORN TO before me, a Notary Public of the State of

_____, County or City of _____, This _____
day of _____, 20____.

Notary Public

My Commission Expires

(PLEASE SUBMIT ORIGINAL COPY)

BID SPECIFICATIONS

TITLE: PROPOSED RE-DECKING OF FLOATING DOCK BACK CREEK BASIN, CHESAPEAKE CITY MUNICIPAL DOCK

1.0 SCOPE OF WORK

The contractor shall furnish all labor, material, equipment and appurtenances as necessary for the re-decking of a wooden decked floating dock, electrical upgrades and water piping, as shown on the attached drawings and as described in these specifications; and as directed by the Town of Chesapeake City or their assignee.

2.0 GENERAL WORK

The intent of the specifications is to prescribe a complete scope of work, which the contractor shall undertake as work necessary for fulfillment of the contract.

3.0 JOB DESCRIPTION

- a. The Scope of Work generally consists of the removal and replacement of 200 linear feet of wooden decked floating dock, 8' wide, including additional bracing, and the installation of five new power pedestals that will provide electric hook up for transient mariners, including new electric lines.
- b. All work shall be in accordance with these plans and specifications.
- c. The contractor shall notify the Town of any discrepancies in these plans and specifications prior to construction.

4.0 PUBLIC CONVENIENCE AND SAFETY

The contractor shall at all times conduct the work in such a manner as to insure the least practicable obstruction to normal activities at the work site. The convenience and service of the general public and employees shall be provided in an adequate and satisfactory manner. Material stored at the job site shall be placed so as to cause as little obstruction to the general public as possible.

5.0 DUST AND NOISE CONTROL

The contractor shall be required, at his own expense, to control dust and noise and provide protection measures during the entire duration of the project.

6.0 PROTECTION OF PROPERTY

- a. The contractor shall provide adequate protection of the work and adjoining areas at all times.
- b. Any damage outside the limits of work shall be repaired or replaced to a condition of equal or better than existing, by the contractor, subject to approval by the Town.

7.0 DISPOSAL OF DEBRIS

All debris created during the contractor's work shall be removed from the premises by the contractor and shall become the property of the contractor unless otherwise shown. The Town of Chesapeake City assumes no responsibility for reuse of materials. The off-site disposal of demolition debris shall be performed by the contractor and shall be transported only to a regulated solid waste or recycling facility. Failure by the contractor to properly dispose of material may result in non-payment by the Town for all services performed by the contractor under this contract.

8.0 INSPECTION

- a. All work, which is the responsibility of the contractor, shall be subject to inspection by the Town of Chesapeake City including conducting an inspection of the complete electrical system by an independent electrical inspection agency approved by the owner and the authority having jurisdiction
- b. Failure of the Town to note faulty workmanship or discrepancies during his work shall not relieve the contractor of the responsibility for proper correction.
- c. Any and all changes or repairs, which are required as a result of inspection, shall be accomplished at no additional cost to the Town.

9.0 TIME FOR COMPLETION AND LIQUIDATED DAMAGES

- a. The contract shall commence upon execution of contract, issuance of Notice to Proceed, and shall cover a maximum period of (90) calendar days.
- b. The contractor shall proceed with the work at such a rate of progress to insure full completion within the contract time. It is expressly understood and agreed, by and between the Contractor and the Town, that the contract time for completion of the work described herein is a reasonable time, taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the work.
- c. If the contractor shall fail to complete the work within the contract time, or extension of time granted by the Town, then the contractor shall pay to the Town the amount for liquidated damages of \$100 for each consecutive calendar day that the contractor shall be in default after the time stipulated in the contract documents.
- d. The contractor shall not be charged with liquidated damages or any excess cost when the delay in completion of the work is due to the following and the contractor has promptly given written notice of such delay to the Town:
 - 1. To any preference, priority or allocation order duly issued by the Town.
 - 2. To unforeseeable causes beyond the control and without the fault or negligence of the contractor, including but not restricted to, acts of God or of the public enemy, acts of the Town, acts of another contractor in the performance of a contract with the Town, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and abnormal and unforeseeable weather; and

3. To any delay of subcontractor occasioned by any of the causes specified in paragraph 9.0 (d)(1) and 9.0 (d)(2) of the article.
- e. The Town reserves the right to terminate the contract upon seven (7) days notice in writing, if in the opinion of the Town, the work performed under the contract is not satisfactory and/or the Town funds become unavailable. The contractor shall be paid for his services for the amount of work done to this point according to the Bid Schedule.

10.0 PRICING

Prices quoted on the Bid Form shall remain firm for the duration of contract period and shall not be subject to escalation.

11.0 CONTRACTORS LIABILITY

- a. The contractor shall obtain and continue in force, during the term of the contract, all insurance specified below. Each insurance policy shall not be canceled or changed without sixty (60) days prior written notice by registered mail, given by the insurance carrier to the Town of Chesapeake City. The contractor shall deposit with the Town certificates evidencing the insurance it is to be provided as follows:
1. Worker's Compensation and Occupational Disease Disability Insurance as required by the laws of the State of Maryland.
 2. Employer's liability insurance in the amount of \$1,000,000 for each accident.
 3. Comprehensive automobile liability insurance for vehicles furnished by the contractor with a combined single limit of \$1,000,000 for each occurrence.
 4. Comprehensive general liability insurance with a limit of \$2,000,000 annual aggregate and \$1,000,000 per occurrence.
- b. The contractor shall cause the aforesaid insurance policies to be duly and properly endorsed by insurance underwriters as follows:
1. To provide that the Town is endorsed as an additional insured to the contractor on liability coverage for work performed by the contractor.
 2. To provide said insurance shall be primary in all instances with respect to work performed by the contractor for the Town.
 3. To provide contractual liability coverage for liability assumed under the terms of the contract.
 4. To provide sixty (60) days prior written notice of cancellation or change in coverage.

12.0 CONTRACT SECURITY (PERFORMANCE BOND)

- a. The selected bidder shall submit to the Town a Performance Bond, Letter of Credit or Certified Check in an amount at least equal to one hundred percent (100%) of the accepted bid as security for the faithful performance of the contract.
- b. The sureties of all bonds, letters of credit or certified checks shall be from such surety company or companies as are approved by the Town and as are authorized to transact business in the State of Maryland. The Town of Chesapeake City shall approve the security prior to execution of the contract.

13.0 INCOMPLETE WORK

If the contractor fails to meet any portion of the specifications, or fails to complete any portion of the work required herein, the completed work shall become the sole property of the Town of Chesapeake City and the contractor shall not receive compensation until the work is completed or repaired and accepted by the Town. The Town shall use funds available through the Performance Bond to complete any incomplete or unacceptable work.

14.0 INDEMNIFICATION

The contractor shall indemnify and hold harmless the Town of Chesapeake City, Maryland and its officials, employees and agents from and against any and all liabilities, judgments, settlements, losses, costs or charges (including attorney's fees) incurred by the Town or any of its officials, employees or agents as a result of any claim, demand, action or suit relating to any bodily injury (including death), loss or property damage caused by, arising out of, related to or associated with any act, omission, or default of the contractor, its employees or subcontractors, in the performance of or in connection with, any work required, contemplated or performed under the contract.

15.0 METHOD OF AWARD

The Town Mayor and Town Council intend, but are not limited to, awarding the contract to the lowest responsible bidder. The Town reserves the right to reject any and all bids when in their reasoned judgment the general public will be better served thereby.

16.0 METHOD OF PAYMENT

- a. Payments to the contractor shall be made on a monthly basis. The contractor shall submit to the Town Office a partial payment estimate (not more often than once a month) completed and signed by the contractor covering the work performed during the period covered by the partial payment estimate and supported by such data. The Town will pay the contractor within thirty (30) days of presentation of the approved partial payment estimate. In approving such partial payments there shall be retained five percent (5%) of the estimated amount due. Neither the final payment nor any part of the retained percentage shall become due until the contractor delivers to the Town a complete release of all liens arising out of this contract.
- b. Payment for materials furnished and work done under this contract will be made for the actual amount of materials supplied and work done by authorization of the Town and in accordance with the unit prices bid in the proposal. The contractor shall not be entitled to receive additional compensation for anything furnished or done, except for such extra work as shall be required by written order of the Town.

- c. All work required for a complete and functional facility is to be paid for under the unit price items listed in the proposal. The absence in the proposal of bid items for any specific category of work shall be interpreted as meaning that the cost of such work, accomplished as defined by the plans and specifications, shall be included in the prices bid for related items which are listed in the proposal.
- d. The unit prices indicated on the Bid Schedule shall be applied in computing the value of changes, additions, deletions and substitutions that may be made in the work following the Award of Contract. Each unit price shall include all work, materials and incidentals necessary to complete the items.

17.0 GUARANTEE

Construction and materials shall be guaranteed from defects in construction for two (2) full years from the date the project is completed and accepted.

18.0 PRE-BID CONFERENCE

A pre-bid conference is scheduled for 1:00 p.m. local time on January 6, 2015 at Chesapeake City Town Hall, 108 Bohemia Avenue, Chesapeake City, MD 21915. It is the contractor's responsibility to inspect the site prior to submitting his bid. Coordinate all visits with the Town, if necessary (410-885-5298).

19.0 SCHEDULING NOTIFICATION

The contractor shall notify the Town (410-885-5298) forty-eight (48) hours prior to the start of construction. He shall provide the Town with an estimated schedule for the project. The Town will notify the contractor of specific points during construction where an inspection must be made before additional work is completed.

20.0 NOTICE TO PROCEED

A Notice to Proceed shall be given to the selected contractor by the Town upon execution of the contract and the filing of proper insurance certificates and performance bonding with the Town.

21.0 GENERAL SPECIFICATIONS

A. SCOPE:

- 1. This project consists of the Contractor providing all labor, equipment, materials, supplies, insurance, etc., necessary to remove and replace a wooden decked floating dock 200'x long 8' wide adjacent to the existing bulkhead in the Town of Chesapeake City, Cecil County, Maryland. The project also includes the placement of associated hardware, electric pedestals, and supplementary power related to the pedestals.
- 2. The proposed project shall include, but is not limited to the following:

Installation:

- 1. **Remove and replace wood decking for a 200 foot long wooden decked floating dock X 8 feet wide as shown on the attached drawings.**

2. Install five new Hatteras Pedestals and associated electric improvements.

NOTE: ALL QUANTITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT MEASUREMENTS FOR BID PURPOSES.

B. SITE INSPECTION:

1. Prior to preparation of his/her bid, it is recommended that each bidder make a personal inspection of the work site, site access, existing structures, and note all conditions, which may affect this project. All prospective bidders are encouraged to attend the pre-bid conference and familiarize themselves with all requirements for the project. Failure to do so will not relieve the successful bidder from complying with all the requirements of these specifications at no additional cost to the Town of Chesapeake City.
2. The Contractor shall satisfy himself as to the accuracy and completeness of these specifications, and drawings regarding the nature and extent of all work described.
3. The work under this contract includes all necessary, temporary items required for good, safe, practical construction methods and administration of the project.

C. STANDARDS AND CODES:

All materials must comply with the applicable latest edition of the following standards:

1. American Society for Testing and Materials: ASTM A 153 Zinc Coating (Hot Dip) on and Steel Hardware. ASTM A 64 Zinc-Coated (Galvanized) Carbon Steel Wire
2. American Wood Preservers Association: AWWA C2 Lumber, Timber, Bridge Ties and Mine Ties-Preservation Treatment by Pressure Process
3. American Wood Council National Design Specification (NDS) for Wood Construction
4. Southern Pine Inspection Bureau: SPIB-01 Grading Rules
5. American Iron and Steel Institute AISI
6. National Electrical Code (NEC)

D. SCHEDULE OF WORK:

1. Work shall be scheduled through and approved by the Town. The contractor shall perform all work Monday through Friday during the normal working hours of 7:00 am to 5:00 pm. unless written approval is given by the Town for additional hours.

2. The contractor shall notify the Town (410-885-5298) forty-eight (48) hours prior to the start of work and coordinate any closures required.
3. Use of the premises by the contractor shall be limited to specified work areas and approved storage areas.

E. CONTRACTOR QUALIFICATIONS:

1. The Contractor shall be licensed in the State of Maryland to perform the specified work.
2. The Contractor shall have a minimum of three (3) years experience performing work of a similar nature. Upon request, the Contractor may be required to submit a list of similar projects, which have been successfully completed.
3. All electrical work to be completed by a licensed electrical contractor.

F. MATERIALS AND SUPPLIES:

1. General:
 - a. Within ten (10) days of contract award and prior to ordering any materials, the contractor shall submit to the Town for approval the manufacturer's shop drawings , if required.
 - b. As applicable, all materials shall be new and shall be delivered to the job site with labels intact and legible. The contractor shall be responsible for the proper storage of said materials throughout the project and shall be replaced, at no additional cost to the Town, any supplies or materials judged unacceptable by the Town.
 - c. The contractor shall be responsible for the coordination, off-loading, and proper storage of all materials and supplies up to and until the time of final inspection and project acceptance.
 - d. Materials shall be stored in a safe area, out of the way of traffic. Any on-site storage location shall be approved by the Town prior to bringing any materials on-site. All materials shall be stored off the ground surface and should be protected from the weather with a waterproof covering. Any special storage instruction required by the material manufacturer shall be performed by the contractor as if specified herein.
2. Hardware: All hardware to be used for the construction of timber pier shall be manufactured from good, commercial quality material and shall meet the minimum requirements of the following:

- a. Bolts and nuts shall conform to ASTM specification A-307 for Grade A steel, hexagonal heads, and shall be hot dipped galvanized in accordance with ASTM designation A-153. A "dome-head" type marine bolt with nut and washer may be used in accordance with these Specifications as shown on the Drawings.
 - b. NYDD and standard cut washers shall meet ASTM specification A-36 for grade A steel and shall be hot-dipped galvanized in accordance with ASTM-153 specification.
 - c. Spikes and nails shall be common wire type and shall meet AISI specification 1010 and 1020 for steel, they shall be hot-dipped galvanized.
 - d. Threads on all threaded fasteners shall be of the cut type with the shank and outside thread diameter being equal to the nominal diameter of the fastener. All threads shall be cut prior to galvanizing. All bolts shall have at least one-half inch of thread beyond face of nut after fully loaded installation.
 - e. All of the hardware shall be hot-dipped galvanized in accordance with ASTM designation A-153, zinc coating shall be class A, 2.0 ounces of zinc per square foot of hardware surface.
 - f. Decking screws shall be 316 Stainless Steel Bugle Head Square Drive, size #8x2-5/8" Swaneze or approved equal. The contractor shall drive minimum two screws per deck board at each stringer for the proposed decking.
 - g. Horned cleats shall be 12" long stainless steel. Cleats shall be spaced 3 per 20' dock section for a total of 30 cleats. One cleat shall be placed at the center of each section with the remaining two placed 3' from each end of the section.
3. Timber: All timber shall be Southern Yellow Pine or approved equal. Timber shall be free from all defects which will impair its strength and durability. All timber shall comply with AWWA 1994 and as modified by the following specifications.
- a. Lumber:
 1. General Quality: All timbers, dimension lumber, and boards shall be graded and carry an identifiable grade mark in accordance with the Grading Rules of the Southern Pine Inspection Bureau. The in place length of lumber shall be as shown on the Drawings. Lumber shall comply with the following Specifications.
 2. Beams, stringers and bracings: Grade No.1 dense, (MC \leq 19%), Fb = 1,500 psi minimum before treatment, surfaced on four sides (S4S).
 3. Decking: Decking shall be specified: grade No.1 (MC \leq 19%), Fb=1350 psi minimum before treatment, surfaced on four sides (S4S) and precision end trimmed square (PET).

b. Miscellaneous Materials:

1. Water-borne preservative solution of CCA-Type C for the treatment of field cuts, trimmed areas and holes for CCA treated lumber only, shall meet the requirements of AWWA M4-91, "Standard for the Care of Preservative-Treated Wood Products".
2. Asphalt roofing cement for coating wale splices, counter-bored holes and exposed hardware shall be a high grade, waterproof cement, easily spread by trowel to 1/8 inch in one coat, meeting Federal Specifications SS-C-153 Type I, Class B. Use Clipper Ship Roofing Cement MP 51 or equivalent.
3. Field Coatings: After all hardware is placed, all field cuts, shall be scraped and brushed clean and given two coats of ZINC-X as manufactured by INSL-X Products Corporation, Yonkers, New York, or an approved equal. All coatings shall be in accordance with the manufacturer's specifications.

c. Treatment:

1. All beams, stringer, clamps shall be pressure-treated with CCA type C, in accordance with the requirements of the American Wood Preservers Association, Standard P5 and all current applicable addenda to a final net retention of not less than 2.5 lbs. of chromated copper arsenate (CCA) per cubic foot of wood as determined by AWWA Standards C18 and C2 with a minimum sapwood penetration of two and one-half inches or eighty-five percent (85%).
2. All decking shall be pressure treated with ACQ type 0.5 in accordance with the requirements of EPA and the American Wood Preservers Association. A final net retention of not less than 0.5 lbs of ACQ per cubic foot of wood as determined by AWWA.
3. All treated materials shall be branded, or tagged after treatment for identification. Tagging of lumber shall be with legible lettering, suppliers brand, plant designation, date of treatment, species of timber, type of preservative and retention of preservative.

d. Treatment of Field Cuts:

1. All field cuts, trimmed areas, holes and damaged areas shall be coated with two coats of a compatible preservative meeting the requirements of AWPAM-4, latest edition, "Standard for the Care of Preservative Treated Wood Products".

Certification:

1. A certificate attesting to the fact that all timber meets the requirements of the Drawings and Specifications as to species, grade, strength, finish and size.

2. A certificate of Treatment from the supplier indicating that all timber meets the Specifications as to type and amount of retention of preservative treatment.
3. A certificate indicating that all hardware (bolts, washers, etc.) meet these specifications as to galvanizing and steel type. The certificate shall list the materials in detail.

G. GENERAL REQUIREMENTS FOR ELECTRICAL INSTALLATION

1. All electrical work shall be provided in accordance with the latest edition of the National Electrical Code, National Electrical Safety Code and all applicable State and local codes. Installation shall comply with National Electrical Code Article 555, 'Marinas and Boatyards'. All electrical work shall be installed in a neat and workmanlike manner and shall conform to NECA 1-2010 'Standard Practices for Good Workmanship in Electrical Contracting'.
2. Permits and Inspections: Secure all permits and schedule inspections required by the authority having jurisdiction. Conduct an inspection of the complete electrical system by an independent electrical inspection agency approved by the owner and the authority having jurisdiction
3. Failure to make an on-site inspection prior to submitting a bid will not relieve Contractor from the responsibilities of properly estimating the requirements or costs of successful completion of the work nor from the responsibility for the faithful performance of the provisions of this contract.
4. The Contractor shall, at his own expense, repair, replace and maintain in service any utilities, facilities or services (underground, overhead, interior or exterior) damaged, broken, or otherwise rendered inoperative during the course of construction by him or his representatives.
5. Electrical panelboards shall be installed minimum 30 inches above the electrical datum plane. All wiring devices shall be installed not less than 12 inches above the deck surface and not below the electrical datum plane. All electrical connections shall be located not less than 12 inches above the deck surface and not below the electrical datum plane.
6. All conductors for lighting and power feeders and branch circuit wiring shall be rated 600 volts and 98 percent conductivity copper. Insulation of conductors shall be type XHHW. Aluminum conductors will not be acceptable. Wire size no. 10 and smaller shall be solid. Wire size no. 8 and larger shall be stranded. All conductors shall be installed in conduit.
7. Conduit shall be Schedule 80 PVC. Secure conduit to underside of dock using liquidtight flexible metal conduit between moveable sections of dock.
8. Panelboards shall be NEMA PB 1, UL 50, UL 61, with bolt-on molded case circuit breakers, enclosure suitable for use, copper bus (including neutral and ground bus),

mechanical type main and neutral lugs. Equipment ground bus: adequate for feeder and branch-circuit equipment ground conductors; bonded to box. Manufacturers: Eaton, General Electric, Siemens-ITE, or Square D.

H. SCOPE OF WORK FOR ELECTRICAL INSTALLATION

1. Remove existing 120/240 volt, single phase, 3 wire, 100 amp panelboard at electrical service entrance location for installation of new panelboard.
2. Provide new 120/240 volt, 1 phase, 3 wire, 200 amp, 12 space service rated panelboard with 200A-2P main circuit breaker with GFCI protection not exceeding 100 mA, feed-through lugs, and NEMA 3R enclosure for power to new subpanel and existing circuits. Provide the following branch circuit breakers for existing circuits: (3) 20A-1P; (1) 30A-2P. Provide (3) #3/0 and (1) #4 Ground – 2 inch conduit from the panelboard to the service junction box.
3. Remove existing 120/240 volt, single phase, 3 wire, 100 amp subpanel serving dock. Remove existing power pedestals and associated conduit and wiring for installation of new subpanel and new power pedestals.
4. Provide new 120/240 volt, 1 phase, 3 wire, 200 amp, 18 space main lug only panelboard with NEMA 3R enclosure for power to new subpanel and existing circuits. Provide the following branch circuit breakers for new power pedestals: (3) 30A-2P; (2) 70A-2P. Provide (3) #3/0 and (1) #6 Ground – 2 inch conduit from the panelboard to new 200 amp panelboard at the electrical service entrance location. Coordinate location of subpanel with owner.
5. Provide three (3) Eaton marina power pedestals (selected by owner) each with two (2) 30A-1P GFCI circuit breakers and two (2) 30A, 125V marine grade twistlock receptacles. Provide (3) #8 and (1) #8 Ground – 1” conduit from each pedestal to 30A-2P breaker in new sub-panel. Provide pedestal with integral LED light fixture.
6. Provide two (2) Eaton marina power pedestals (selected by owner) each with one (1) 30A-1P GFCI circuit breaker and 30A, 125V marine grade twistlock receptacle and one (1) 50A-2P GFCI circuit breaker and 50A, 125/250V marine grade twistlock receptacle. Provide (3) #4 and (1) #8 Ground – 1” conduit from each pedestal to 70A-2P breaker in new sub-panel. Provide pedestal with integral LED light fixture.

I. METHOD OF WORK:

1. General:
 - a. All work shall be as shown on the drawings and as called for in these written specifications.

b. The contractor shall adhere to OSHA-MOSHA regulations throughout the project to insure the safety of his/her employees, Town employees, and the public.

c. The contractor shall maintain the work site in a safe, neat, and orderly manner throughout the entire project. The contractor shall take steps necessary to prevent the accumulation of debris at the job site.

d. The contractor shall submit to the Town for approval the following at the Pre-Construction Meeting:

1. A schedule and sequence for all contract work.
2. The names, qualifications, duties and responsibilities for each person installing the products.

2. Specifics: The contractor shall perform the following work:

- a. Remove and replace existing wood decking in accordance with plan detail and specifications.
- b. Existing walking planks providing dock access and transition plates between dock sections shall be reinstalled in an identical fashion to what existed prior to work commencing.
- c. 3/16" hot dipped galvanized steel angle iron shall be welded in place to provide longitudinal support for stringers on 24" centers. Two angle irons will be required for each 8' section. Any welds and abandoned penetrations shall be coated in accordance with the Miscellaneous Materials Field Coatings Section.
- d. Water distribution piping shall be extended to provide a fully connected water source to each new pedestal.
- e. All newly installed water and electric appurtenances shall be attached to the dock frame below the decking and be obscured from view.
- f. Field cuts of CCA treated timber shall be given a treatment of an approved water-borne preservative solution of CCA-Type C.
- g. Remove and properly dispose of all excess materials and debris, off Town property. All disturbed areas shall be raked smooth. Spread 3" of topsoil to reach final grade, seed, fertilize and mulch.
- h. Care shall be taken to not damage any asphalt in the parking lot. Pictures shall be taken of the before and after site conditions. Any damage is the contractors' responsibility.

J. GUARANTEE and ACCEPTANCE:

1. The contractor shall fully guarantee the work covered under this contract for a period of two (2) years from the date of acceptance against defects in materials and workmanship.
2. Any defects found within the two (2) year warranty period shall be promptly repaired or replaced by the contractor at no additional cost to the Town.
3. The contractor shall provide the Town with all manufacturers' warranties for materials and systems used on this project.
4. Acceptance by the Town for any procedures, materials, workmanship, or final product shall not relieve the contractor of his contractual requirements.
5. All work is subject to the inspection and approval of the Town.

K. GENERAL REQUIREMENTS:

1. The contractor shall make his own arrangements at his own expense, coordinating with the Town (Owner) for storage of materials and any construction yard he may require executing this project.
2. Deviation from the manufacturer's instructions or this specification will not be acceptable.
3. The contractor's personnel shall be skilled craftsman and fully qualified by experience and technical training to perform their assigned responsibilities.
4. The contractor shall take all necessary precautions and measures to protect all properties from damage. He shall repair all damage caused by his operation to all public and private property including roads, walks, curbs, utilities, trees, shrubs, plantings, etc., and leave the property in good condition and/or at least equivalent to the condition found.
5. The contractor shall make his own arrangements to acquire any temporary utility service, which he requires to perform this contract. Any expenses incurred must be paid by the contractor.