

**REQUEST FOR PROPOSAL #09-1678BG  
FOR  
MARINE RELATED SERVICES**

Manatee County, a political subdivision of the State of Florida (hereinafter "Manatee County" or the "County") will receive proposals from individuals, corporations, partnerships, and other legal entities authorized to do business in the State of Florida, for the purpose of maintaining the integrity of marine navigational aids, removal of hazards to navigation, and enhancing marine structures and waterways in the waters of Manatee County.

**TIME AND DATE DUE:** Proposals will be received until **10:00A.M., April 19, 2010**, at which time they will be publicly opened. All interested parties are invited to attend this opening.

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**Important note: A prohibition of Lobbying  
has been enacted with the issuance of this Request for Proposal**

**Please review paragraph A.18 carefully to avoid violation and possible sanctions.**

FOR INFORMATION CONTACT:

Blair C. Getz, Contracts Negotiator, Purchasing Division at (941) 749-3053

OR

Alan Lai Hipp, Marine Resources Coordinator, Natural Resources Dept.

(941) 748-4501-EXT 4614

Authorized to Release: 

## SECTION A: INFORMATION TO PROPOSERS

PROPOSERS MUST COMPLY WITH THE FOLLOWING INSTRUCTIONS TO BE CONSIDERED FOR SELECTION.

### A.01 OPENING LOCATION

These proposals will be publicly opened at Manatee County Purchasing, 1112 Manatee Avenue West, 8th Floor, Suite 803, Bradenton, Florida 34205, in the presence of County officials at the time and date stated on the cover sheet. All Proposers or their representatives are invited to attend.

Proposals become "Public Records" ten (10) days after the proposal opening or if an award decision is made earlier than this time as provided by Florida Statute 119.071. **No announcement of pricing or review of the proposal documents shall be conducted at the public opening of the proposals.**

### A.02 BID INFORMATION AND BID DOCUMENTS ....

**Bids and Proposals** on <http://www.mymanatee.org>

Bid or Proposal documents and the Notices of Source Selection related to those Bids or Proposals are available for download in a portable document format (.PDF) file on the Manatee County web page on the Purchasing tab under "Bids and Proposals." You may view and print these files using Adobe Acrobat software. You may download a free copy of this software (Adobe) from the County's web page if you do not have it.

**Manatee County collaborates with the Manatee Chamber of Commerce** on distributing solicitations using the RFP Tool web page on the Chambers website: <http://www.Manateechamber.com> to post Bid and Proposal documents in a portable document format (.PDF) file. This step is in addition to the posting on Manatee County Government web pages.

Manatee County may also use an internet service provider to distribute Bids and Proposals. A link to that service <http://www.DemandStar.com>, is provided on this website under the Tab "DemandStar". Participation in the DemandStar system is not a requirement for doing business with Manatee County.

Complete individual CD's of the proposal documents for the project and/or products can be obtained, **at no charge**, from the **Natural Resources Department, Alan Lai Hipp, phone number 941-748-4501, EXT. 4614 between the hours of 8:00 am and 4:00 pm, Monday through Friday**. Complete set of the proposal documents must be used in preparing proposals. Neither Owner nor Engineer assumes any responsibility for errors of misinterpretations resulting from the use of incomplete sets of proposal Documents.

## A.02 (CONTINUED)

Note: The County posts the Notice of Source Selection seven calendar days prior to the effective date of the award.

IT IS THE RESPONSIBILITY OF EACH VENDOR, PRIOR TO SUBMITTING THEIR BID or PROPOSAL, TO CONTACT THE MANATEE COUNTY PURCHASING OFFICE (see contact information on page one of this document) TO DETERMINE IF ADDENDA WERE ISSUED AND TO MAKE SUCH ADDENDA A PART OF THEIR BID or PROPOSAL.

## A.03 PROPOSAL FORM DELIVERY REQUIREMENTS

Any proposals received after the stated time and date will not be considered. It shall be the sole responsibility of the Proposer to have their proposal delivered to the Manatee County Purchasing office for receipt on or before the stated time and date. If a proposal is sent by U.S. Mail, the Proposer shall be responsible for its timely delivery to the Purchasing Office. Proposals delayed by mail shall not be considered, shall not be opened at the public opening, and arrangements shall be made for their return at the Proposer's request and expense.

## A.04 CLARIFICATION & ADDENDA

Each proposer shall examine all Request For Proposal documents and shall judge all matters relating to the adequacy and accuracy of such documents. Any inquiries, suggestions or requests concerning interpretation, clarification or additional information pertaining to the Request For Proposal shall be made in writing through the Manatee County Purchasing Office. The County shall not be responsible for oral interpretations given by any County employee, representative, or others. The issuance of a written addendum is the only official method whereby interpretation, clarification or additional information can be given. Addenda shall be posted on <http://www.mymanatee.org>

It shall be the responsibility of each proposer, prior to submitting their proposal, to contact the Manatee County Purchasing Office at 941-748-4501, Ext. 3053 to determine if addenda were issued and to acknowledge such addenda as part of the proposal.

### DEADLINE FOR CLARIFICATION REQUESTS ....

**April 12, 2010 at 5:00P.M.** shall be the deadline to submit all inquiries, suggestions, or requests concerning interpretation, clarification or additional information pertaining to the Invitation for Bids or the Request For Proposals to the Manatee County Purchasing Office.

This deadline has been established to maintain fair treatment for all potential bidders or proposers, while maintaining the expedited nature of the Economic Stimulus that the contracting of this work may achieve.

A.05 SEALED & MARKED

**FIVE (5) SIGNED ORIGINALS** of your complete proposal shall be submitted in one sealed package, clearly marked on the outside "**Sealed Proposal #09-1678BG**" / **Marine Related Services** and addressed to:

Manatee County Purchasing  
1112 Manatee Avenue West, Suite 803  
Bradenton, FL 34205

A.06 LEGAL NAME

Proposals shall clearly indicate the legal name, address and telephone number of the Proposer which shall be the business entity registered with the State of Florida to provide **Marine Related Services** which you have the authority to bind to directly perform the services and contractual duties to Manatee County. Proposals shall be signed above the typed or printed name and title of the signer. The signer shall have the authority to bind the Proposer to the submitted proposal.

A.07 PROPOSAL EXPENSES

All expenses for making proposals to the County are to be borne by the Proposer.

A.08 EXAMINATION OF OFFER

The examination of these proposals and the qualifications of the Proposer shall require a period of not less than ninety (90) calendar days from the date of the opening of the proposals.

A.09 DISCLOSURE ...

**Bids or Proposals become "Public Records" ten (10) days after the proposal opening or if an award decision is made earlier than this time as provided by Florida Statue 119.071**, No announcement or review of the bid or proposal documents shall be conducted at the public opening of the proposals. Based on the above, Manatee County will receive the Bid or Proposal at the date and time stated, and will make public at the opening the names of the business entities of all that submitted an offer and any amount presented as a total offer without any verification of the mathematics or the completeness of the offer. Upon the expiration of the Statutory term for exemption the actual documents may be inspected or copied. When County staff have completed a mathematic validation and/or inspected the completeness of the offers, a tabulation for bids only shall be posted on mymanatee.org.

A.10 ERRORS OR OMISSIONS

Once a proposal is submitted, the County shall not accept any request by any proposer to correct errors or omissions in the proposal. No changes shall be allowed until a selection is made and contract negotiations actually begin.

#### A.11 RESERVED RIGHTS

The County reserves the right to accept or reject any and/or all proposals, to waive irregularities and technicalities, and to request resubmission. Any sole response received by the first submission date may or may not be rejected by the County, depending on available competition and timely needs of the County. The County reserves the right to award the contract to a responsible Proposer submitting a responsive proposal, with a resulting negotiated agreement which is most advantageous and in the best interests of the County. The County shall be the sole judge of the proposal, and the resulting negotiated agreement that is in its best interest and its decision shall be final. Also, the County reserves the right to make such investigation as it deems necessary to determine the ability of any Proposer to perform the work or service requested. Information the County deems necessary to make this determination shall be provided by the Proposer. Such information may include, but shall not be limited to: current financial statements prepared by an independent CPA; verification of availability of equipment and personnel; criminal background information of any Proposer, its employees, agents and personnel; and past performance records.

#### A.12 APPLICABLE LAWS ...

Proposer must be authorized to transact business in the State of Florida. All applicable laws and regulations of the State of Florida and ordinances and regulations of Manatee County will apply to any resulting agreement. Any involvement with any Manatee County procurement shall be in accordance with Manatee County Code of Laws 2-26, as amended. Any actual or prospective proposer who is aggrieved in connection with the solicitation or award of a contract may protest to the Board of County Commissioners of Manatee County as required in Chapter 2-26-61 of the Manatee County Code of Laws.

A protest with respect to this Request For Proposal shall be submitted in writing prior to the scheduled opening date of this proposal, unless the aggrieved person did not know and could not have been reasonably expected to have knowledge of the facts giving rise to such protest prior to the scheduled opening date of this proposal. The protest shall be submitted within seven calendar days after such aggrieved person knows or could have reasonably been expected to know of the facts giving rise thereto.

#### A.13 CODE OF ETHICS ...

With respect to this proposal, if any proposer violates or is a party to a violation of the Code of Ethics of Manatee County per Manatee County Code of Laws, Article III, Ethics in Public Contracting, and/or the state of Florida per Florida Statutes, Chapter 112, Part III, Code of Ethics for Public Officers and Employees, such proposer may be disqualified from performing the work described in this proposal or from furnishing the goods or services for which the proposal is submitted and shall be further disqualified from submitting any future proposals for work or for goods or services for Manatee County.

The County anticipates that all statements made and materials submitted in a proposal will be truthful. If a bidder or proposer is determined to be untruthful in its proposal or any related presentation, such bidder or proposer may be disqualified from further consideration regarding this Request for Proposals.

#### A.14 COLLUSION

By offering a submission to this Request for Proposal the Proposer certifies that they have not divulged to, discussed or compared his proposal with other Proposers and has not colluded with any other Proposer or parties to this proposal whatsoever. Also, Proposer certifies, and in the case of a joint proposal, each party thereto certifies, as to their own organization that in connection with this proposal:

- a. any prices and/or data submitted have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices and/or cost data, with any other Proposer or with any competitor;
- b. any prices and/or cost data quoted for this proposal have not been knowingly disclosed by the Proposer prior to the scheduled opening directly or indirectly to any competitor;
- c. no attempt has been made or will be made by the Proposer to induce any other person or firm to submit or not to submit a proposal for the purpose of restricting competition;
- d. the only person or persons interested in this proposal as principal or principals is/are named therein and that no person other than herein mentioned has any interest in this proposal or in the contract to be entered into; and
- e. no person or agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees.

#### A.15 PROPOSAL FORMS

Proposals must be submitted in the format specified in Section B of this Request For Proposal. The content of each proposal shall be **separated and arranged with tabs in the same order as listed in the Subsections within Section B** identifying the response to each specific item to facilitate an expedient review of all responses.

#### A.16 DRUG FREE WORK PLACE

Drug Free Workplace Program: Manatee County Board of County Commissioners adopted a policy regarding maintaining a Drug Free Workplace, Resolution R-93-22. Proposers are asked to review the attached copy of the Resolution and provide either a certification of compliance with the program outlined in this Resolution or describe your firm's policy or program as it relates to maintaining a drug free workplace. This response will be considered with the other criteria described herein. **Proposer to complete Attachment "B"**

**A.17 LOBBYING**

After the issuance of any Request for Proposal or Invitations for Bid, prospective Bidders, Proposers or any agent, representative or person acting at the request of such Bidder or Proposer shall not contact, communicate with or discuss any matter relating in any way to the Request for Proposals or Invitation for Bids with any officer, agent or employee of Manatee County other than the Purchasing Manager or as directed in the Request for Proposals or Invitation for Bids. This prohibition begins with the issuance of any Request for Proposals or Invitation for Bids, and ends upon execution of the final contract or when the invitation or request has been canceled. Violators of this prohibition shall be subject to sanctions as provided in the Manatee County Procurement Code.

**NOTE: If required Proposers or Bidders may obtain further clarification or explanation of the Drawings, Specifications and Scope of Services by contacting:**

**Alan Lai Hipp, Marine Resources Coordinator, Natural Resources Department  
Phone: (941) 748-4501 ext. 4614  
Fax: (941) 741-3227  
Email: [alan.laihipp@mymanatee.org](mailto:alan.laihipp@mymanatee.org)**

Any inquiries, suggestions or requests concerning interpretation, clarification or additional information pertaining to a REQUEST FOR PROPOSAL shall be made in writing.

**The County shall not be responsible for oral interpretations given by any County employee, representative, or others.**

The issuance of a written addendum is the only official method whereby interpretation, clarification or additional information can be given.

**NOTE: If required Proposers may obtain further clarification or explanation exclusive of the drawings, specifications or the Scope of Services by contacting:**

**Blair C. Getz, Contracts Negotiator, Purchasing Division  
Phone: (941) 749-3053  
Fax: (941) 749-3034  
Email: [blair.getz@mymanatee.org](mailto:blair.getz@mymanatee.org)**

**The County reserves the right to amend or to add to the names listed as persons to contact and shall be issued in writing by the Purchasing Department .**

#### A.18 DISQUALIFYING CRIMINAL MATTERS; CERTIFICATION REQUIRED

A person or affiliate who has been placed on the State's convicted vendor list following a conviction for a public entity crime, as that term is defined in Florida Statute s. 287.133, may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

In addition, the Manatee County Code prohibits the award of any contract to any person or entity who/which has, within the past 5 years, been convicted of, or admitted to in court or sworn to under oath, a public entity crime or of an environmental law that, in the reasonable opinion of the purchasing official, establishes reasonable grounds to believe the person or business entity will not conduct business in a responsible manner; To ensure compliance with the foregoing, the Code requires all persons or entities desiring to contract with the County to execute and file with the purchasing official an affidavit, executed under the pain and penalties of perjury, confirming that person, entity, and any person(s) affiliated with the entity, does not have a such a record and is therefore eligible to seek and be awarded business with the County. In the case of a business entity other than a partnership or a corporation, such affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, such affidavit shall be executed by the general partner(s). A confirming Criminal Matters Certification Affidavit is attached for this purpose.  
**Proposer is to complete Attachment "C"**

#### A.19 EQUAL EMPLOYMENT OPPORTUNITY

Manatee County, in accordance with the Manatee County Code of laws, provisions of Title VI of the Civil Rights Act of 1964 and the Regulations of the Department of Commerce (15 CFR, Part 8) issued pursuant to such Act, hereby notifies all prospective Proposers that they will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to participate in response to this advertisement and will not be discriminated against on the grounds of race, color, creed, sex, age or national origin in consideration for an award.

#### A.20 AMERICANS WITH DISABILITIES ACT

The Board of County Commissioners of Manatee County, Florida, does not discriminate upon the basis of any individual's disability status. This non-discrimination policy involves every aspect of the County's functions including one's access to, participation, employment, or treatment in its programs or activities. Anyone requiring reasonable accommodation for the public meetings specified herein (i.e. Information Conference or Proposal Opening), should contact the person named on the first page of this document at least twenty four (24) hours in advance of the activity.



## A.21 GIS CONSIDERATIONS

The County records all land related changes and/or activities in its corporate ESRI ArcGIS 9.x based Geographic Information System (GIS). Therefore, all GIS or Computer Aided Drafting (CAD) formatted data created or modified in support of a project will be provided to the County as a project deliverable for inclusion into the County's GIS, at no additional cost. GIS data files submitted in support of a project must adhere to Manatee County GIS Standards, and CAD drawings submitted must adhere to Manatee County CAD Standards.

**END OF SECTION A**

## **SECTION B: FORM OF PROPOSAL**

This section identifies specific information which must be contained within each proposal. **The contents of each proposal shall be separated and arranged with tabs in the same order as listed in Sections B.01, B.02 and B.03 below, identifying the response to each specific item.**

### **B.01 MINIMUM QUALIFICATIONS (Licensing / Certification) TO BE CONSIDERED:**

**Proposer** must be a qualified individual, corporation, partnership, and/or other legal entity authorized to do business in Florida and possess all required, but not limited to, Marine and Pilot Licenses required by the Federal, State and/or local Government, Contractor certifications, Contractor Licenses and/ or operator's licenses necessary to perform the work described in this Request for Proposal.

**MINIMUM EXPERIENCE TO BE CONSIDERED:** Proposer must present experience in the field for which he is submitting a proposal

**Only upon determination that satisfactory responses have been provided to the preceding Minimum Qualifications and Experience, consideration shall be given to the following information:**

### **B.02 ADMINISTRATIVE SUBMITTALS -The following documents shall be submitted with the proposal:**

- a. Proposal Signature Form.
- b. Drug Free Workplace Certification.
- c. Public Contracting and Environmental Crimes Certification.

### **B.03 INFORMATION TO BE SUBMITTED**

- a. Description of the proposer, including corporate structure, detailed information supporting the proposers areas of expertise, any proposed subcontractors, current and proposed personnel, relevant equipment, capabilities of team leader, and experience of staff including length of employment a background statement for each.
- b. Description of proposed strategy and activities for completion of the work described in this RFP to include availability, response time to the furthest point and to the closest point from main base or bases.

**B.03 INFORMATION TO BE SUBMITTED (CONTINUED)**

- c. A list of current or past clients for whom similar services were conducted with current Contract Administrators names and current phone numbers and a description of services provided.
- d. Submit any other additional information which would assist the County in the evaluation of your proposal.
- e. Submit a narrative **explaining the direct economic benefit to Manatee County to be realized by selecting your firm**. During the term of this engagement detail the employment, subcontracting, and support services contracting as economic stimulus that your entity may generate that would directly benefit Manatee County.
- f. Submit relevant capabilities and experience of staff, identifying the proposed project team leader and his/her qualifications.

If subcontractors are included in the proposal in order to meet the minimum qualifications, detail the business entities, description of the service provided, and responses in the same level of detail and tabbed order as instructed in this Request For Proposal for the proposer.

**NOTE:** The County reserves the right to make such investigation and solicit additional information or submittals as it deems necessary to determine the ability of any Proposer to perform the Scope of Services stated in this Request for Proposal.

Provide a Minimum of three (3) other entities for which you have provided similar services and in the following detail:

- a. Name and location of the Client and the area serviced, the year the services began, indicate if services are still continuing and the date they are to terminate. Specify the name and telephone number of the Clients contract manager for the work; and
- b. The names of your firm's key staff and the roles each shall be responsible for.

**END OF SECTION B**

## SECTION C: SELECTION

### C.01 EVALUATION FACTORS

Evaluation factors shall be the proposals, which will overall best meet the needs of Manatee County, the perceived ability of the proposer to perform the Scope of Services as stated in this Request for Proposal, the estimated response time to initiate a particular task and the cost proposal for the proposed work as determined from the responses to this Request for Proposal and subsequent investigation by the County.

### C.02 RELATIVE IMPORTANCE OF EVALUATION FACTORS

**Note:** all evaluation factors are considered without assigning a weight factor, and all terms, conditions, and costs are to be negotiated. Therefore, price shall not be either the sole evaluative factor, or the dominant factor in the making the recommendation.

### C.03 PRELIMINARY RANKING

A Selection Committee may determine from the response to this Request for Proposal and subsequent investigation as necessary, the proposers most susceptible of being selected for award.

### C.04 REVIEW OF PROPOSERS AND PROPOSALS

Review shall be conducted with responsible proposers who may be reasonably susceptible of being selected for award, for the purpose of clarification to assure full understanding of the abilities of the proposer, the proposal submitted and the ability to successfully meet the needs of the County.

Proposers responding to this Request for Proposal shall be available for presentation/interviews to the Selection Committee and to the Board of County Commissioners upon notification from the Purchasing Office at a time and date determined by the County.

### C.05 SELECTION FOR NEGOTIATION

The proposer or proposers whose ability and proposal is determined to be the most advantageous to the County, taking into consideration the evaluation factors set forth in this Request for Proposal, shall be recommended to the Board of County Commissioners for authorization to negotiate an agreement for the stated Scope of Services.

The recommendation or selection of a proposer for negotiation shall not be construed as vesting any contractual or other rights of any nature in the proposer.

### C.06 AWARD

Award of an agreement is subject to the successful negotiations and execution of the Agreement by the County Administrator or his designee.

**END OF SECTION C**

## SECTION D: NEGOTIATION OF THE AGREEMENT

### D.01 GENERAL

The following general terms and conditions apply to the proposal submitted for consideration and the subsequent negotiations:

- a. The proposal will serve as a basis for negotiating an agreement.
- b. Upon submission, all proposals become the property of the County which has the right to use any or all ideas presented in any proposal submitted in response to this Request for Proposal whether or not the proposal is accepted.

### D.02 AGREEMENT

The selected proposer or proposers shall be required to negotiate a formal agreement in a form acceptable to Manatee County.

The Manatee County Board of County Commissioners or their designee will be presented the negotiated agreement as the best and final offer for consideration of award and execution. The Board of County Commissioners or their designee shall determine if award of the agreement is to be: considered; rejected and direct further negotiations; rejected and terminate negotiations; or accepted, authorizing the County Administrator or a designee to execute the agreement.

- a. Unless renewed or extended this Agreement shall remain in full force and effect for one (1) year from the date of its execution. However, the terms and conditions of this Agreement shall remain valid beyond one year until all Work Assignments authorized during the effective period of this Agreement have been completed.
- b. This Agreement may be extended for four (4) additional periods, each of one (1) year.

**END OF SECTION D**

## **SECTION E: SCOPE OF SERVICES**

### **E.01 SCOPE OF SERVICES SUMMARY**

Non-exclusive list of encompassed activities includes, but is not limited to:

- a. Lost or abandoned vessel removal, storage and disposal.
- b. Piling installation/removal/maintenance
- c. Mounting and maintenance of marine signage/aids to navigation (Contractor supplies hardware)
- d. Buoy / anchor installation and maintenance (Contractor supplies buoy and hardware)
- e. Buoy installation (County supplies buoy)
- f. Artificial reef construction
- g. Debris/obstruction removal
- h. Dock, sea wall, and ramp apron repair

### **E.02 PROJECT BACKGROUND**

Manatee County is requesting proposals to assist with maintaining the integrity of marine navigational aids, the integrity of structures associated with waterway access or recreation, marking waterway speed zones, removing of hazards to navigation, removing of lost or abandoned vessels, and the construction of artificial reefs in the waters of Manatee County and the Gulf of Mexico.

### **E.03 PROJECT LOCATION**

The areas to be serviced are all Manatee County waters including the Manatee River, Terra Ceia Bay, Palma Sola Bay, Anna Maria Sound to the Northern boundary of Manatee County, Bishop Harbor, Sarasota Bay to the Southern boundary of Manatee County, Braden River and all coastlines, rivers, creeks, bays, and bayous as well as the waters of the Gulf of Mexico adjacent to the established corporate limits of Manatee County.

## **E.04 CATEGORY A. THRU G. SCOPE DESCRIPTION**

**PROPOSER SHOULD PROPOSE ONLY THOSE CATEGORIES FOR WHICH CONSIDERATION IS REQUESTED. NOT ALL CATEGORIES NEED BE PROPOSED.**

**NOTE: MATERIAL QUALITY:** All materials purchased and delivered against this Agreement will be new, unused and of first quality and not damaged and/or factory seconds. Materials of less than first quality condition will be rejected and a required exchanged within twenty-four (24) hours of notice to the Contractor at no charge to the County.

**PROJECT PROGRESS REPORTS:** The contractor(s) shall be required to provide Manatee County with regular written updates which detail the amount of work completed to date and other information relevant to the project. The frequency of reporting will be determined at the time of authorization to proceed is granted.

**NOTE: ANY AND ALL PERMITS REQUIRED BY ANY FEDERAL, STATE and/ or LOCAL AGENCY SHALL BE THE RESPONSIBILITY OF THE PROPOSER.**

### **CATEGORY A: Lost or Abandoned Vessel Removal**

1. Prospective Contractors shall be responsible for furnishing all labor, materials, equipment, accessories and space to perform the complete removal, disposal, or storage of vessels and all associated contents as directed by Manatee County.
  - Vessel removal and disposal must be documented by submitting a notarized Disposition Certification for Derelict Vessels form, upon completion of the project. Disposal must be performed expeditiously and in accordance with all applicable Federal, State and local rules, codes, laws and regulations. Proposer to submit with the proposal package a sample Disposition Certification approval by the County.
  - Contractor shall provide documentation of the proper disposal of any fuels, petroleum or hazardous materials removed from vessels.
  - The Contractor shall have the appropriate equipment available and be responsible for containing and removing any pollutant(s) that may be discharged into the water in compliance with all local, state and federal regulations. Contractor is responsible for timely notifying all appropriate agencies in the event of a pollutant discharge.
  - By proposing under this section, Proposed Contractor is certifying immediate availability for vessel clean-up and associated reporting in Manatee County Waters after a hurricane or other catastrophic disaster.
  - Storage of any vessel shall be strictly prohibited unless prior written approval by the County is granted.

## **CATEGORY B: Piling Installation/ Removal/ Maintenance**

All installations must conform to the Florida Uniform Waterway Marking System in accordance with Florida Statutes 327.40(1). All work performed under this contract must be conducted according to the TECHNICAL SPECIFICATIONS FOR THE INSTALLATION, REPAIR, and REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES (Attachment "D") OUTLINED IN THE GUIDELINES FOR POSTING UNIFORM WATERWAY MARKERS IN FLORIDA WATERWAYS (**utilizing the most current version of the Guidelines**).

Contractor will be advised of the installation/removal location(s) using standard GPS coordinates. Contractor will provide all necessary hardware, tools, and equipment.

## **CATEGORY C: Marine Sign/Aids to Navigation Mounting, Removal and Maintenance**

1. All signs shall conform to the Florida Uniform Waterway Marking System in accordance with Florida Statutes 327.40(1) All work performed under this contract must be conducted according to the TECHNICAL SPECIFICATIONS FOR THE INSTALLATION, REPAIR, and REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES (attached) OUTLINED IN THE GUIDELINES FOR POSTING UNIFORM WATERWAY MARKERS IN FLORIDA WATERWAYS(**utilizing the most current version of the Guidelines**).
2. Contractor will be advised of the installation/removal location(s) using standard GPS coordinates. Contractor will provide all necessary hardware, tools, and equipment to successfully install, remove or maintain the Marine Signs/ Aids.
3. Channel day-markers (aids to navigation) are to be installed using cross bracing with the top of the day-marker angled outward to avoid soiling by birds. Day-markers may not be attached directly to pilings.
4. In certain situations, the installation of signs or aids to navigation on concrete/wooden bridge pilings may be required. Drilling into the structure for the purpose of mounting a sign or aid to navigation, or permanent adhering (gluing) of signs or aid to navigation on such structures is not allowed unless permission is specifically granted by the agency or owner responsible for the structure. It shall be the contractor's responsibility to obtain such permission and/or use an County approved alternative mounting method which does not impact the structure.
5. Signs and day-markers must be returned to the County unless otherwise directed. All items removed and not returned must be properly disposed of in compliance with all federal, state and local laws and ordinances.



## **CATEGORY D: Buoy and Anchor Installation/Maintenance**

All buoys shall conform to the Florida Uniform Waterway Marking System in accordance with Florida Statutes 327.40(1). All work performed under this contract must be conducted according to the TECHNICAL SPECIFICATIONS FOR THE INSTALLATION, REPAIR, and REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES (attached) OUTLINED IN THE GUIDELINES FOR POSTING UNIFORM WATERWAY MARKERS IN FLORIDA WATERWAYS (MARCH 2008).

1. Installation of 80 inch regulatory buoy with "elastic" downline and helical embedment anchor including all necessary hardware and flotation buoy
2. Installation of supplied buoy (contractor supplies all other necessary hardware).
3. Reinstallation of 80 inch regulatory buoy to existing embedment anchor (contractor supplies all other necessary hardware).
4. Reinstallation of supplied buoy to existing embedment anchor (contractor supplies all other necessary hardware)
5. Relocation of buoy
6. Hardware, flotation buoy, "elastic" downline or other miscellaneous item replacement
7. Installation of 18 inch blue and white mooring buoys
8. Reinstallation of 18 inch blue and white mooring buoy to existing anchor
9. Cleaning/scraping of buoys.
10. Buoy inspection (visual inspection of all components; including embedment anchor)
11. Buoy removal (including anchor)

**NOTE:** Disposal of damaged or removed buoys that cannot be reused will be the responsibility of the contractor.

## **CATEGORY E: Artificial Reef Construction – Up to 30 miles into the Gulf of Mexico**

Construction involves the loading, transportation and deployment of materials on Manatee County artificial reefs. Artificial reef materials include, but are not limited to, concrete materials of opportunity, limestone boulders, prefabricated reef modules, clean steel materials, steel barges and suitable vessels. All existing county reefs are located within 10 miles of Anna Maria Island. The Natural Resources Department is planning on permitting several reefs between 15 to 20 miles offshore at an undetermined time in the future, but possibly during the life of this Agreement.

It is intended the materials be stockpiled at the barge loading dock at the south end of Coquina Bayside Park adjacent to Longboat Pass. The contractor shall perform loading of the materials in such a way as to minimize breakage.

During deployment of the materials, the transport vessel **MUST** be effectively moored through double anchoring, be spudded down, or otherwise held securely in place with minimum movement.

## **CATEGORY E: Artificial Reef Construction (CONTINUED)**

Materials may either be pushed overboard or individually lowered to the bottom at the designated deployment location. The contractor must ensure that the materials are concentrated within the specific placement points and that the material relief does not exceed 50% of the water depth at mean lower, low water. Deployment of the materials must be conducted in such a way as to minimize breakage. County staff shall be consulted regarding the loading arrangement of the material prior to commencement.

Any damage to public or private property, including, but not limited to, seawalls, utilities, fencing, etc. resulting from the contractors operations shall be repaired or replaced to original condition by the Contractor at his expense. **USE OF THE BARGE LOADING FACILITY MUST BE AUTHORIZED BY MANATEE COUNTY.**

Before final acceptance, all areas occupied by the Contractor in connection with the work shall be cleaned of all rubbish, excess materials and equipment, and shall be left in a condition acceptable to Manatee County.

## **CATEGORY F: Debris, Hazard and Obstruction Removal and Hurricane Clean-up Activities**

1. The Contractor will provide equipment, operators and laborers for debris, hazard, and obstacle removal and disposal within the waterways of Manatee County. Response time will be an item negotiated with the selected firms, however provide a "Good Faith" estimate of response times as part of the proposal.
2. The Contractor will provide all labor and materials to operate and maintain all boats and equipment. All rates must include the cost of protective clothing, tools, transportation, and any incidental costs.
3. By proposing under this section, Proposed Contractor is certifying availability for debris clean-up on Manatee County Waters after a hurricane or other catastrophic event.
4. During hurricane or other catastrophic event clean-up, the Proposed Contractor will submit a report to the County Emergency Management Coordinator and the Natural Resources Department by close of business each day containing the Proposed Contractor's name, the daily and cumulative hours for each piece of equipment, the daily and cumulative hours for personnel, and the daily and cumulative volumes of debris handled.
5. Contractor will coordinate with the U.S. Coast Guard and Army Corps of Engineers during debris cleanup activities conducted upon navigable waters and provide any necessary reports any agency may require.
6. Contractor will keep County staff informed of the work progress and any problems encountered or expected.

**CATEGORY G: Dock, Sea Wall, and Ramp Apron Repair**

1. Dock, sea wall and ramp apron repairs will be based on linear or square foot of lumber or of cubic foot of concrete depending on the structure to be repaired.
2. WORKSITE SANITATION: At the end of each workday, the contractor shall remove from the premises waste materials caused by their operation hazards. The contractor is also responsible for ensuring that any subcontractor hired by him or his subcontractors totally cleanup the worksite the premises the daily accumulation of waste materials caused by his operations. Safety at the completion of the work. If the contractor fails to clean up at the completion of the work, the County may do so and deduct the cost of such cleanup from the contractor's most current invoice. The contractor will not be responsible for cleaning up debris left by the County's employees, the public utilizing other areas in the vicinity of the worksite, or left by other contractors.
3. Contractor shall be responsible for all permits as noted, materials, labor and required insurance.

**CATEGORY H: Miscellaneous Marine Related Activities**

Flat rate labor rate for miscellaneous tasks where all or most materials are supplied with no minimum.

**END SECTION E**

SECTION F  
**MANATEE COUNTY LOCAL PREFERENCE LAW AND VENDOR REGISTRATION**

**F.01 Vendor Registration**

All vendors are encouraged to register with Manatee County using the on-line "Vendor Registration" web page on [www.mymanatee.org](http://www.mymanatee.org).

Enclosed is a copy of the current Manatee County law that details the County's Local Preference and definition of a Local Business.

If you assert that your firm meets the stated definition of a Local Business, we ask that in addition to registering on the County's Web page, you fill out the attached "**Affidavit As To Local Business Form**" that is the **last page** in this section of the proposal, have the completed document notarized, and mail the original to the following address: Manatee County Administration Center, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205.

Your cooperation in registering your business with Manatee County will enhance our opportunities to identify sources for goods and services, plus identify Local Businesses. This information is used for soliciting quotations up to \$250,000.00 and for competitive solicitations of larger purchases.

You will note that Manatee County collaborates with the Manatee Chamber of Commerce, posting bids on [www.manateechamber.com](http://www.manateechamber.com) as well as using the same vendor categories for registration.

Our staff can assist you with your registration as needed. Our office hours are 8:00 A.M. to 5:00 P.M., Monday through Friday on regular business days. Please call (941) 749-3014 if you wish to have a purchasing staff member assist you.

**Quick steps to on line registration:**                      **[www.mymanatee.org](http://www.mymanatee.org)**

A link to "Purchasing" is listed under the "Quick Links" on page one of this County Web Site.

On the left hand side of the Purchasing Web page, click on "Vendor Registration."

This will bring up the Vendor Registration form for on-line input. Please note that the definition of a "Local Business" changed on March 17, 2009. The Web page will be updated to include the current Law which has been provided in this section of the **proposal**.

Thank you for reviewing this information and considering registering your business with Manatee County. Registration is not mandatory, however, by taking the time to register, you are helping the County to provide timely notifications of quotation, bid, and proposal opportunities to your business.

## **MANATEE COUNTY LOCAL PREFERENCE LAW AND VENDOR REGISTRATION**

### **F.02 Section 2-26-6. Local preference, tie bids, local business defined.**

(a) Whenever a responsible local business bidder and a responsible non-local business bidder are found, upon the opening of bids, to have both submitted the lowest responsive bid, the bid of the local bidder shall be awarded the contract. Should more than one responsible local business bidder match the responsible non-local business bidder's lowest responsive bid, or should no responsible local business bidder match the lowest responsive bid but two or more responsible non-local business bidders submit lowest responsive bids for equal amounts, then the award of the contract shall be determined by a chance drawing, coin toss, or similar tie-breaking method conducted by the purchasing office and open to the public. Any bidders seeking to be recognized as local businesses for purposes of this local business preference provision may be required by the terms of the bid announcement to certify they meet the definition of local business set forth in this section, and to register as a local business with the county in the manner prescribed by the county to facilitate the county's ability to track the award of contracts to local businesses and to allow the county to provide future notifications to its local businesses concerning other bidding opportunities.

(b) Nothing herein shall be deemed to prohibit the inclusion of requirements with respect to operating and maintaining a local place of business in any invitation for bids when the bidder's location materially affects the provisions of the services or supplies that are required by the invitation.

(c) Local business is defined as a business legally authorized to engage in the sale of the goods and/or services to be procured, and which certifies within its bid that for at least six (6) months prior to the announcement of the solicitation of bids it has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas or Sarasota County with at least one full-time employees at that location.

**(d) Each solicitation for bids made by the county shall contain terms expressly describing the local business preference policies of the county, and shall provide that by electing to submit a bid pursuant to a request for bids, all bidders are deemed to understand and agree to those policies.**

(e) For all contracts for architecture, professional engineering, or other professional services governed by Florida Statute § 287.055, the Consultants' Competitive Negotiation Act, the county shall include the local business status of a firm among the factors considered when selecting which firms are "most highly qualified." In determining which firm is the "most qualified" for purposes of negotiating a satisfactory contract, preference shall be given to a local business where all other relevant factors are equal.

(f) Local preference shall not apply to the following categories of contracts:

1. Goods or services provided under a cooperative purchasing agreement or similar "piggyback" contract;
2. Contracts for professional services subject to Florida Statute § 287.055, the Consultants' Competitive Negotiation Act, except as provided for in subsection (e) above;

**F.02 Section 2-26-6. Local preference, tie bids, local business defined. (Continued)**

3. Purchases or contracts which are funded, in whole or in part, by a governmental or other funding entity, where the terms and conditions of receipt of the funds prohibit the preference;
4. Purchases or contracts made pursuant to a non-competitive award process, unless otherwise provided by this section;
5. Any bid announcement which specifically provides that the general local preference policies set forth in this section are suspended due to the unique nature of the goods or services sought, the existence of an emergency as found by either the county commission or county administrator, or where such suspension is, in the opinion of the county attorney, required by law.

(g) To qualify for local preference under this section, **a local business must certify to the County that it:**

1. Has not within the five years prior to the bid announcement admitted guilt or been found guilty by any court or state or federal regulatory enforcement agency of violation of any criminal law, or a law or administrative regulation regarding fraud;
2. Is not currently subject to an unresolved citation or notice of violation of any Manatee County Code provision, except citations or notices which are the subject of a current legal appeal, as of the date of the bid announcement;
3. Is not delinquent in the payment of any fines, liens, assessments, fees or taxes to any governmental unit or taxing authority within Manatee County, except any such sums which are the subject of a current legal appeal.

Ref: Ordinance 09-21 and 09-23 **PASSED AND DULY ADOPTED** in open session, with a quorum present and voting, on the 17<sup>th</sup> day of March, 2009.

**MANATEE COUNTY GOVERNMENT**  
**AFFIDAVIT AS TO LOCAL BUSINESS**  
**(Complete and Initial Items B-F)**

A. Authorized Representative

B. I, [name] \_\_\_\_\_, am the [title] \_\_\_\_\_

and the duly authorized representative of: [name of business] \_\_\_\_\_  
\_\_\_\_\_, and that I possess direct personal knowledge to make informed responses to these certifications and the legal authority to make this Affidavit on behalf of myself and the business for which I am acting; and by electing to submit a **proposal** pursuant to this **Request For Proposals**, shall be deemed to understand and agree to the local business preference policies of Manatee County; and that I have the direct knowledge to state that this firm complies with all of the following conditions to be considered to be a Local Business as required by the Manatee County Code of Law, Section 2-26-6.

C. Place of Business: I certify that the above business is legally authorized to engage in the sale of goods and/or services and has a physical place of business in Manatee, DeSoto, Hardee, Hillsborough, Pinellas or Sarasota County with at least one (1) fulltime employee at that location. The physical address of the location which meets the above criteria is: \_\_\_\_\_ [Initial] \_\_\_\_\_

D. Business History: I certify that business operations began at the above physical address with at least one fulltime employee on [date] \_\_\_\_\_ [Initial] \_\_\_\_\_

E. Criminal Violations: I certify that within the past five years of the date of this **proposal** announcement, this business has not admitted guilt nor been found guilty by any court or local, state or federal regulatory enforcement agency of violation of any criminal law or administrative regulation regarding fraud. [Initial] \_\_\_\_\_

F. Citations or Code Violations: I certify that this business is not currently subject to any unresolved citation or notice of violation of any Manatee County Code provision, with the exception of citations or notices which are the subject of a legal current appeal within the date of this **proposal** announcement. [Initial] \_\_\_\_\_

G. Fees and Taxes: I certify that within this business is not delinquent in the payment of fines, liens, assessments, fees or taxes to any governmental unit or taxing authority within Manatee County, with the exception of those which are the subject of a legal current appeal. [Initial] \_\_\_\_\_

*Each of the above certifications is required to meet the qualification of "Local Business" under Manatee County Code of Law, 2-26-6.*

Signature of Affiant \_\_\_\_\_

STATE OF FLORIDA  
COUNTY OF \_\_\_\_\_

Sworn to (or affirmed) and subscribed before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by (name of person making statement).

(Notary Seal) Signature of Notary: \_\_\_\_\_

Name of Notary (Typed or Printed) \_\_\_\_\_

Personally Known \_\_\_\_ OR Produced Identification \_\_\_\_ Type of Identification Produced \_\_\_\_\_

**Submit executed copy to Manatee County Purchasing, Suite 803, 1112 Manatee Avenue W., Bradenton, FL 34205**

**PROPOSAL SIGNATURE FORM  
RFP #09-1619BG  
FOR  
MARINE RELATED SERVICES**

\_\_\_\_\_  
Firm Name

Mailing Address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

( ) \_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
City, State, Zip Code

The undersigned attests to his (her, their) authority to submit this proposal and to bind the firm herein named to perform as per agreement. If the firm is selected by the County the undersigned certifies that he/she will negotiate in good faith to establish an agreement to provide Design Build Construction Services for the MARINE RESCUE FACILITY , according to the requirements of this RFP #09-1619BG.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Witness Signature

\_\_\_\_\_  
Name and Title of Above Signer

\_\_\_\_\_  
Name and Title of Above Signer

Date: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Address of any branch office  
Proposed to service Manatee County other than above

\_\_\_\_\_  
Name and Title of Firm's Representative & phone number for Manatee County

Phone Number \_\_\_\_\_



ATTACHMENT "A"

RESOLUTION R-93-22

**A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF MANATEE COUNTY, FLORIDA, IMPLEMENTING §3-101(7)3(1) OF THE MANATEE COUNTY PROCUREMENT CODE (ORDINANCE 84-02 AS AMENDED) TO ESTABLISH MINIMUM REQUIREMENTS FOR BIDDERS WITH RESPECT TO MAINTAINING A DRUG FREE WORKPLACE; REQUIRING WRITTEN CERTIFICATION TO THE COUNTY OF COMPLIANCE WITH THE REQUIREMENTS ESTABLISHED HEREIN; AND PROVIDING FOR SEVERABILITY AND EFFECTIVE DATE.**

**WHEREAS**, the Board of County Commissioners of Manatee County recognizes that substance abuse is a complex societal problem that continues to threaten the welfare of the residents and community; and

**WHEREAS**, the Board of County Commissioners considers substance abuse on the job to be an unsafe and counter-productive work practice; and

**WHEREAS**, consistent with its policy to promote a safe work environment and encourage personal health for all citizens of Manatee County, the Commission finds it necessary to combat substance abuse in the workplace by promoting education and awareness; and

**WHEREAS**, consistent with the Drug Free Workplace Act (§112.0455, Florida Statutes) and policies applicable to Manatee County employees pursuant to Resolution R-93-10, the Board of County Commissioners of Manatee County has determined that it is necessary and in the best interest of the County to adopt the drug free workplace requirements for persons or entities contracting with Manatee County; and

**WHEREAS**, §3-101(7)B of the Manatee County procurement Code (Ordinance 84-02, as amended) authorizes the adoption of requirements for maintaining a drug free workplace applicable to persons or entities bidding on contracts with Manatee County.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of County Commissioners of Manatee county, Florida, as follows:

1. **Certification Required:** No person or entity submitting a bid pursuant to §3-101 shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease

franchise, concession or management agreement, unless such person or entity has submitted a written certification to the county that it will provide a drug free workplace by:

- a. Providing a written statement to each employee notifying such employee that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance as defined in §893.02(4), Florida statutes, as the same may be amended from time to time, in the person's or entity's workplace is prohibited specifying the actions that will be taken against employees for violation of such prohibition. Such written statement shall inform employees about:
  - (i) the dangers of drug abuse in the workplace;
  - (ii) the person's or entity's policy of maintaining a drug free environment at all its workplaces, including but not limited to all locations where employees perform any task relating to any portion of such contract, business transaction or grant;
  - (iii) any available drug counseling, rehabilitation, and employee assistance programs; and
  - (iv) the penalties that may be imposed upon employees for drug abuse violations.
- b. Requiring the employee to sign a copy of such written statement to acknowledge his or her receipt of same and advice as to the specifics of such policy. Such person or entity shall retain the statements signed by its employees. Such person or entity shall also post in a prominent place at all of its workplaces a written statement of it's policy containing the foregoing elements (i) through (iv).
- c. Notifying the employee in the statement required by subsection 1. that as a condition of employment the employee will:
  - (i) abide by the terms of the statement; and
  - (ii) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such a conviction.
- d. At all times pertinent to the performance of any contract with Manatee County, notify the county within ten (10) days after receiving notice under

subsection c. from an employee or otherwise receiving actual notice of such conviction.

- c. Imposing appropriate personnel action against such employee up to and including termination; or requiring such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state or local health, law enforcement, or other appropriate agency.
  - f. Making a good faith effort to continue to maintain a drug free workplace through implementation of sections a. through e. of this subsection.
2. **Severability.** If any part, section, subsection, or other portion of this Resolution, or any application thereof to any person or circumstances declared to be void, unconstitutional, or invalid for any reason, such part, section, subsection, or other portion, or the prescribed application thereof, shall be severable, and the remaining provisions of this Resolution, and all applications thereof not having been declared void, unconstitutional or invalid, shall remain in full force and effect.
  3. **Effective Date.** This Resolution shall take effect ninety (90) days after adoption by the Board of County Commissioners.

**ADOPTED** in open session by a majority of the duly elected Board of County Commissioners of Manatee County, Florida, this 2nd day of February, 1993.

**ORIGINAL DOCUMENT SIGNED BY BOARD OF COUNTY COMMISSIONERS  
CHAIRMAN MS. LARI ANN HARRIS ON FEBRUARY 2, 1993 AND IS ON FILE AT  
MANATEE COUNTY CLERKS OFFICE.**

# ATTACHMENT "B"

## Drug Free Work Place Certification

SWORN STATEMENT PURSUANT TO SECTION 6-101(7)(B),  
MANATEE COUNTY PURCHASING CODE

**THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.**

This sworn statement is submitted to the Manatee County Board of County Commissioners by \_\_\_\_\_  
[print individual's name and title]

\_\_\_\_\_ for \_\_\_\_\_  
[print name of entity submitting sworn statement]

whose business address is: \_\_\_\_\_

and (if applicable) its Federal Employer Identification Number (FEIN) is: \_\_\_\_\_ (If the entity has no FEIN,

include the Social Security Number of the individual signing this sworn statement: \_\_\_\_\_.)

I understand that no person or entity shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease, franchise, concession or management agreement, or shall receive a grant of county monies unless such person or entity has submitted a written certification to the County that it will provide a drug free work place by:

(1) providing a written statement to each employee notifying such employee that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance as defined by § 893.02(4), Florida Statutes, as the same may be amended from time to time, in the person's or entity's work place is prohibited specifying the actions that will be taken against employees for violation of such prohibition. Such written statement shall inform employees about:

(i) the dangers of drug abuse in the work place;

(ii) the person's or entity's policy of maintaining a drug free environment at all its work places, including but not limited to all locations where employees perform any task relating to any portion of such contract, business transaction or grant;

(iii) any available drug counseling, rehabilitation, and employee assistance programs; and

(iv) the penalties that may be imposed upon employees for drug abuse violations.

(2) Requiring the employee to sign a copy of such written statement to acknowledge his or her receipt of same and advice as to the specifics of such policy. Such person or entity shall retain the statements signed by its employees. Such person or entity shall also post in a prominent place at all of its work places a written statement of its policy containing the foregoing elements (i) through (iv).

(3) Notifying the employee in the statement required by subsection (1) that as a condition of employment the employee will:

(i) abide by the terms of the statement; and

ATTACHMENT B (Cont'd.)

(ii) notify the employer of any criminal drug statute conviction for a violation occurring in the work place no later than five (5) days after such a conviction.

(4) Notifying the County within ten (10) days after receiving notice under subsection (3) from an employee or otherwise receiving actual notice of such conviction.

(5) Imposing appropriate personnel action against such employee up to and including termination; or requiring such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency.

(6) Making a good faith effort to continue to maintain a drug free work place through implementation of sections (1) through (5) stated above.

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR MANATEE COUNTY IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE CONTRACTING OFFICER OR THE COUNTY ADMINISTRATOR DETERMINES THAT:

- (1) Such person or entity has made false certification.
- (2) Such person or entity violates such certification by failing to carry out the requirements of sections (1), (2), (3), (4), (5), or (6) or subsection 3-101(7)(B); or
- (3) Such a number of employees of such person or entity have been convicted of violations occurring in the work place as to indicate that such person or entity has failed to make a good faith effort to provide a drug free work place as required by subsection 3-101(7)(B).

\_\_\_\_\_  
[Signature]

STATE OF FLORIDA  
COUNTY OF \_\_\_\_\_

Sworn to and subscribed before me this \_\_\_ day of \_\_\_\_\_, 200\_\_ by \_\_\_\_\_

Personally known \_\_\_\_\_ OR Produced identification \_\_\_\_\_  
[Type of identification]

\_\_\_\_\_  
Notary Public Signature My commission expires \_\_\_\_\_

\_\_\_\_\_  
[Print, type or stamp Commissioned name of Notary Public]

**Signatory Requirement** - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

# Attachment "C"

## PUBLIC CONTRACTING AND ENVIRONMENTAL CRIMES CERTIFICATION

### SWORN STATEMENT PURSUANT TO ARTICLE 6, MANATEE COUNTY PURCHASING CODE

**THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.**

This sworn statement is submitted to the Manatee County Board of County Commissioners by \_\_\_\_\_  
[print individual's name and title]

\_\_\_\_\_ for \_\_\_\_\_  
[print name of entity submitting sworn statement]

whose business address is: \_\_\_\_\_

and (if applicable) its Federal Employer Identification Number (FEIN) is \_\_\_\_\_. If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: \_\_\_\_\_

I understand that no person or entity shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease, franchise, concession or management agreement, or shall receive a grant of county monies unless such person or entity has submitted a written certification to the County that it has not:

(1) been convicted of bribery or attempting to bribe a public officer or employee of Manatee County, the State of Florida, or any other public entity, including, but not limited to the Government of the United States, any state, or any local government authority in the United States, in that officer's or employee's official capacity; or

(2) been convicted of an agreement or collusion among bidders or prospective bidders in restraint of freedom of competition, by agreement to bid a fixed price, or otherwise; or

(3) been convicted of a violation of an environmental law that, in the sole opinion of the County's Purchasing Director, reflects negatively upon the ability of the person or entity to conduct business in a responsible manner; or

(4) made an admission of guilt of such conduct described in items (1), (2) or (3) above, which is a matter of record, but has not been prosecuted for such conduct, or has made an admission of guilt of such conduct, which is a matter of record, pursuant to formal prosecution. An admission of guilt shall be construed to include a plea of nolo contendere; or

(5) where an officer, official, agent or employee of a business entity has been convicted of or has admitted guilt to any of the crimes set forth above on behalf of such and entity and pursuant to the direction or authorization of an official thereof (including the person committing the offense, if he is an official of the business entity), the business shall be chargeable with the conduct herein above set forth. A business entity shall be chargeable with the conduct of an affiliated entity, whether wholly owned, partially owned, or one which has common ownership or a common Board of Directors. For purposes of this Form, business entities are affiliated if, directly or indirectly, one business entity controls or has the power to control another business entity, or if an individual or group of individuals controls or has the power to control both entities. Indicia of control shall include, without limitation, interlocking management or ownership, identity of interests among family members, shared organization of a business entity following the ineligibility of a business entity under this Article, or using substantially the same management, ownership or principles as the ineligible entity.

Attachment C (Cont'd.)

Any person or entity who claims that this Article is inapplicable to him/her/it because a conviction or judgment has been reversed by a court of competent jurisdiction, shall prove the same with documentation satisfactory to the County's Purchasing Director. Upon presentation of such satisfactory proof, the person or entity shall be allowed to contract with the County.

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR MANATEE COUNTY IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE CONTRACTING OFFICER OR THE COUNTY ADMINISTRATOR DETERMINES THAT **SUCH PERSON OR ENTITY HAS MADE FALSE CERTIFICATION.**

\_\_\_\_\_  
[Signature]

STATE OF FLORIDA  
COUNTY OF \_\_\_\_\_

Sworn to and subscribed before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ by \_\_\_\_\_

Personally known \_\_\_\_\_ OR Produced identification \_\_\_\_\_  
[Type of identification]

\_\_\_\_\_  
Notary Public Signature My commission expires \_\_\_\_\_

\_\_\_\_\_  
[Print, type or stamp Commissioned name of Notary Public]

**Signatory Requirement** - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

**ATTACHMENT D.**

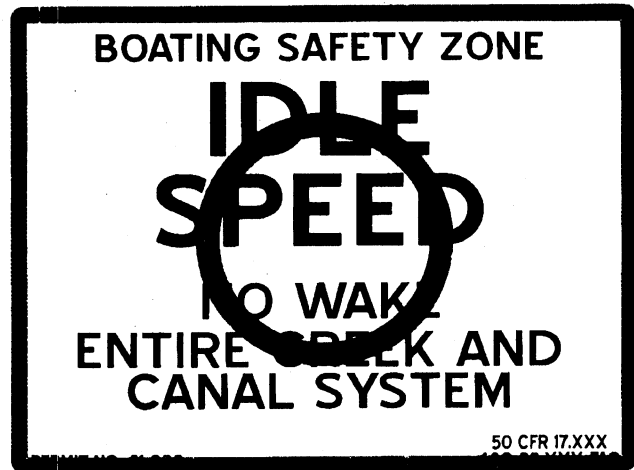
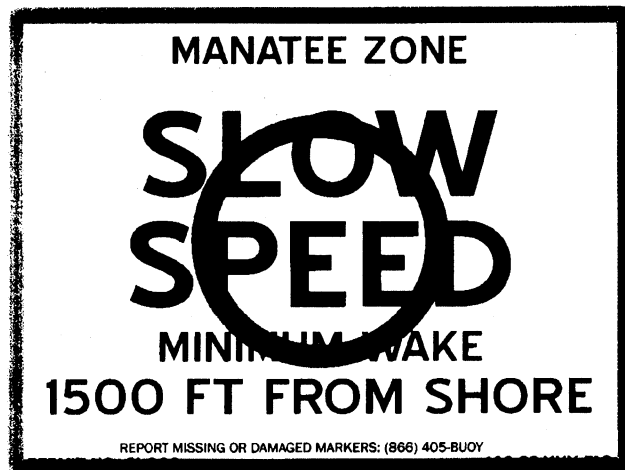
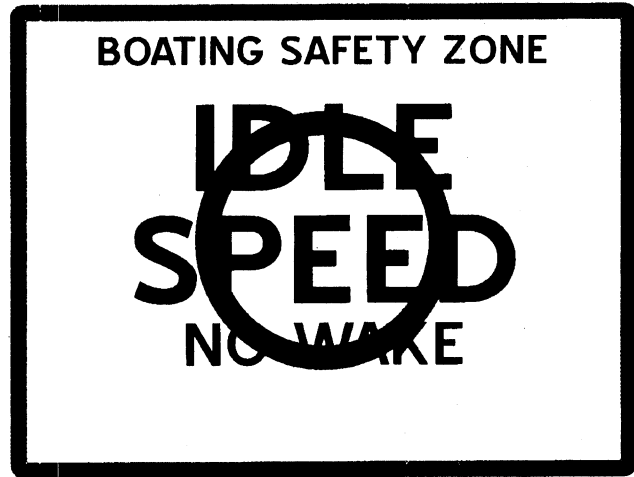
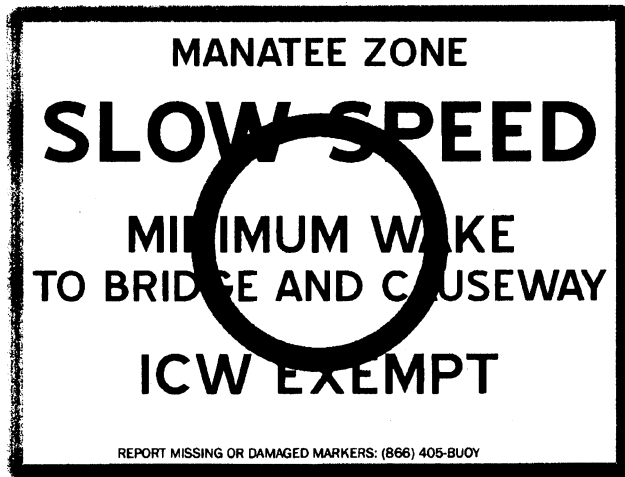
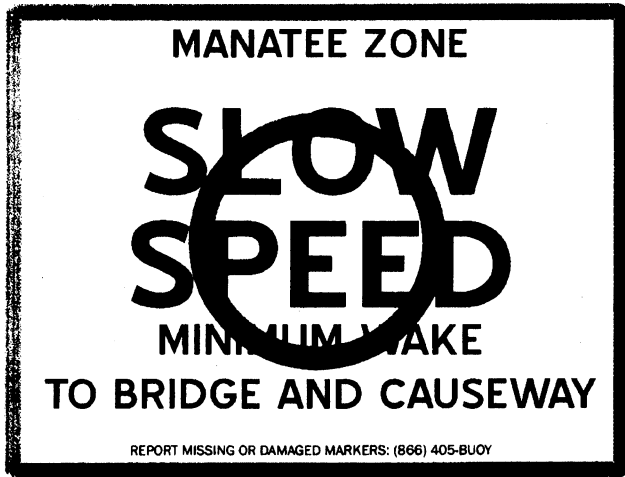
Appendix A

**Regulatory sign examples**



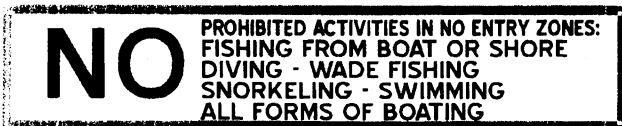
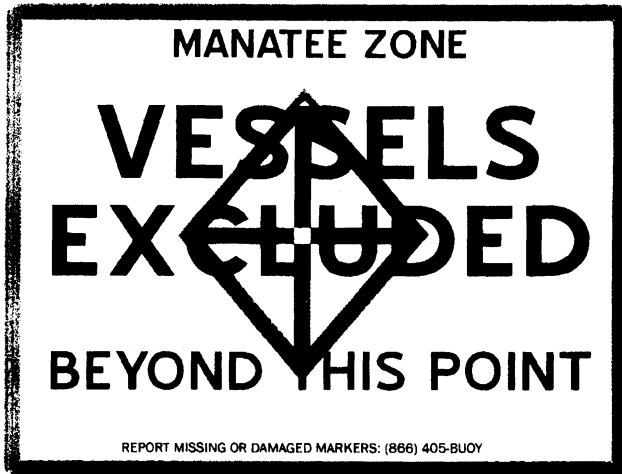
ATTACHMENT D

Common regulatory sign messages



ATTACHMENT D

Common auxiliary sign messages

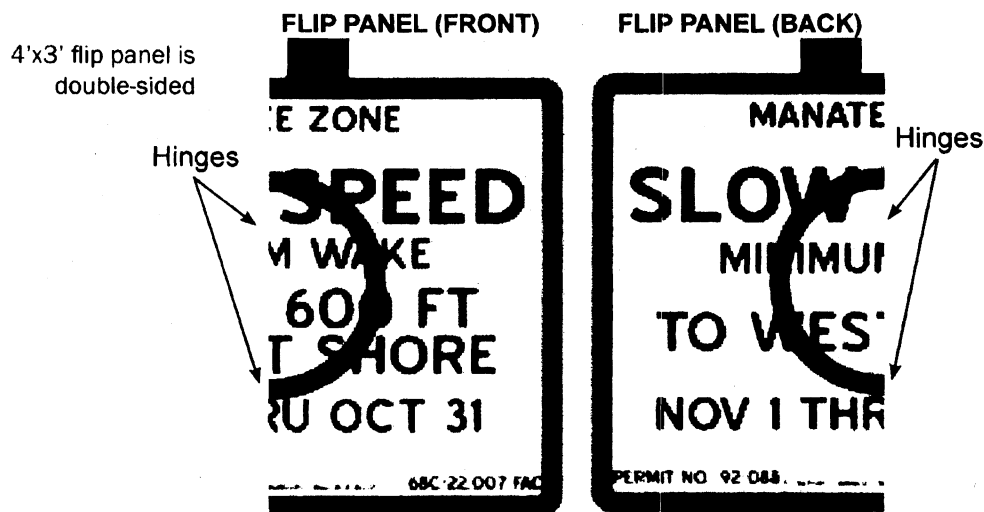
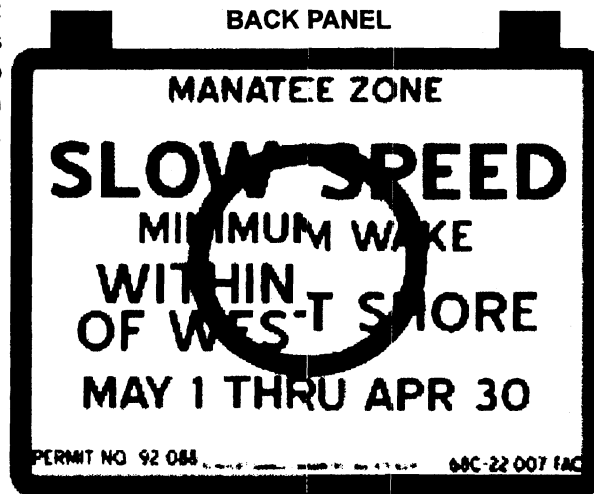


ATTACHMENT D

Flip sign mechanics



SEASONAL FLIP SIGN:  
Illustrations show how signs  
should read. Requires flip  
panel to be printed on both  
sides.

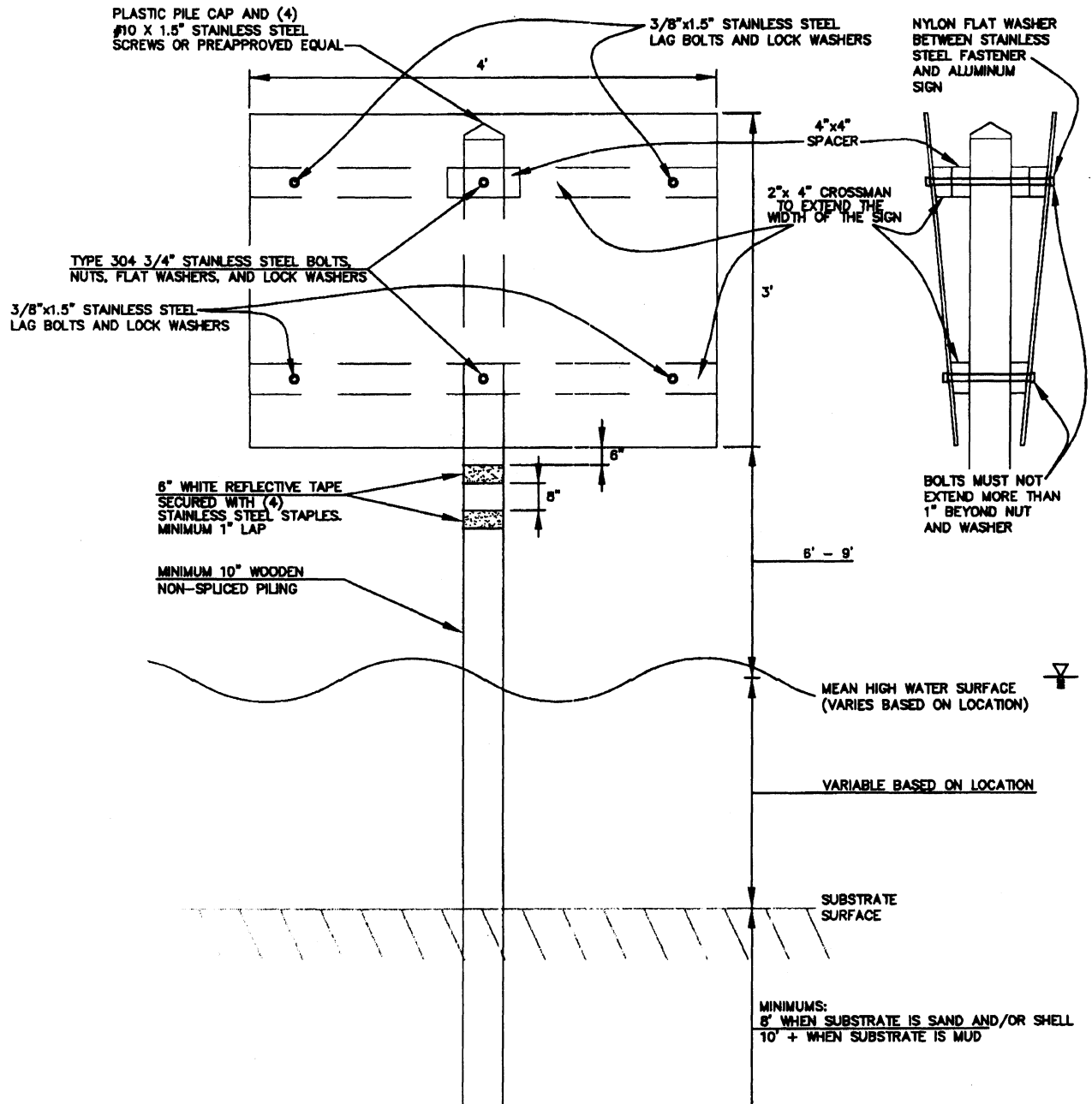


**ATTACHMENT D**

**Appendix B**

**Buoy and sign design drawings and specifications**

# ATTACHMENT D



- NOTE:**
1. ALL PILING MUST BE PRESSURE TREATED LUMBER (2.50 CCA FOR SALTWATER APPLICATIONS; 0.80 CCA, 0.80 ACQ, OR 1.0 ACZA FOR FRESHWATER APPLICATIONS).
  2. ALL FRAMING FOR SIGNBOARD MUST BE PRESSURE TREATED LUMBER (0.80 CCA, 0.80 ACQ, OR 0.80 ACZA FOR SALTWATER APPLICATIONS; 0.40 CCA, 0.40 ACQ, 0.40 ACZA, 0.21 CA OR 0.41 CBA FOR FRESHWATER APPLICATIONS).
  3. BOLT HOLES BORED 1/8" LARGER THAN DIAMETER OF BOLT. ALL FASTENERS MUST BE VANDAL PROOFED.
  4. THE CONTRACTOR SHALL NOT IMPACT THE MESSAGE AREA OR REFLECTIVE SURFACES OF THE SIGN WHEN DRILLING HOLES IN THE SIGNS, OR SPLIT THE ENDS OF THE CROSSING TIMBERS
  5. PLASTIC PILE CAP SHALL BE EQUAL TO THE TOP EDGE OF THE SIGN ( $\pm 8"$ ) AND SHALL FIT PILING NATURALLY WITHOUT HAVING TO MODIFY CAP IN ANY WAY.
  6. SIGN(S) MUST BE CENTERED ON SINGLE PILE.

NOT TO SCALE

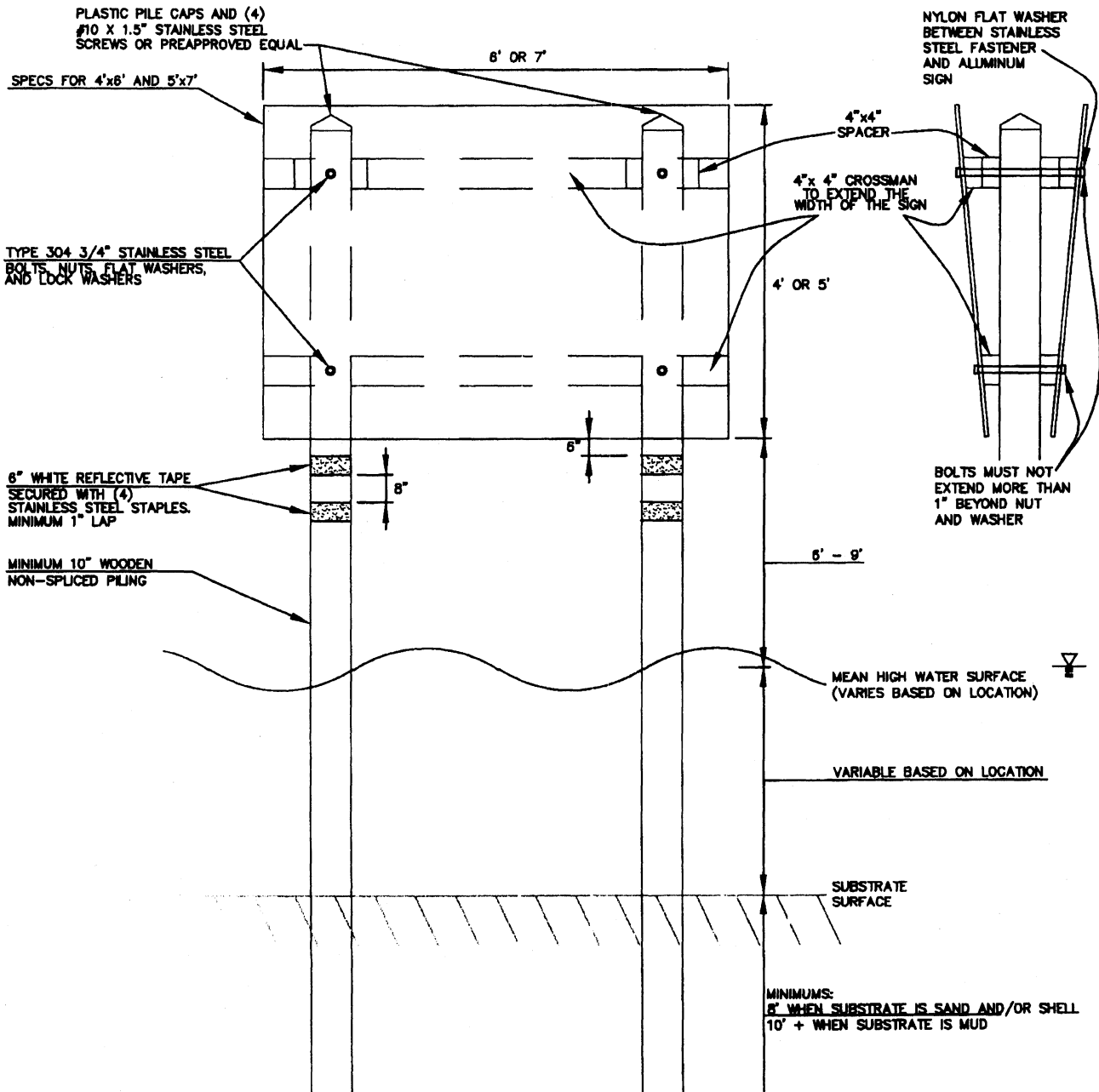
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Maintenance & Repair Work  
Uniform Waterway Marker Plans

3'x4'  
Single Pile Sign Detail

# ATTACHMENT D



PLASTIC PILE CAPS AND (4)  
#10 X 1.5" STAINLESS STEEL  
SCREWS OR PREAPPROVED EQUAL

NYLON FLAT WASHER  
BETWEEN STAINLESS  
STEEL FASTENER  
AND ALUMINUM  
SIGN

SPECS FOR 4'x6' AND 5'x7'

6' OR 7'

4"x4"  
SPACER

4"x 4" CROSSMAN  
TO EXTEND THE  
WIDTH OF THE SIGN

TYPE 304 3/4" STAINLESS STEEL  
BOLTS, NUTS, FLAT WASHERS,  
AND LOCK WASHERS

4' OR 5'

6" WHITE REFLECTIVE TAPE  
SECURED WITH (4)  
STAINLESS STEEL STAPLES.  
MINIMUM 1" LAP

8"

BOLTS MUST NOT  
EXTEND MORE THAN  
1" BEYOND NUT  
AND WASHER

MINIMUM 10" WOODEN  
NON-SPLICED PILING

6' - 9'

MEAN HIGH WATER SURFACE  
(VARIES BASED ON LOCATION)

VARIABLE BASED ON LOCATION

SUBSTRATE  
SURFACE

MINIMUMS:  
8' WHEN SUBSTRATE IS SAND AND/OR SHELL  
10' + WHEN SUBSTRATE IS MUD

**NOTE:**

1. ALL PILING MUST BE PRESSURE TREATED LUMBER (2.50 CCA FOR SALTWATER APPLICATIONS; 0.80 CCA, 0.80 ACQ, OR 1.0 ACZA FOR FRESHWATER APPLICATIONS).
2. ALL FRAMING FOR SIGNBOARD MUST BE PRESSURE TREATED LUMBER (0.60 CCA, 0.60 ACQ, OR 0.60 ACZA FOR SALTWATER APPLICATIONS; 0.40 CCA, 0.40 ACQ, 0.40 ACZA, 0.21 CA OR 0.41 CBA FOR FRESHWATER APPLICATIONS).
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5. PLASTIC PILE CAP SHALL BE EQUAL TO THE TOP EDGE OF THE SIGN (±6") AND SHALL FIT PILING NATURALLY WITHOUT HAVING TO MODIFY CAP IN ANY WAY.

NOT TO SCALE

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**PBSJ**

Maintenance & Repair Work  
Uniform Waterway Marker Plans

4'x6' or 5'x7'  
Double Pile Sign Detail



# ATTACHMENT D

PLASTIC PILE CAP AND (4)  
#10 X 1.5" STAINLESS STEEL  
OR PREAPPROVED EQUAL

SPECS FOR 3'x4'  
FLIP SIGNS

TYPE 304 3/4" STAINLESS STEEL  
CARRIAGE BOLTS, NUTS,  
FLAT WASHERS, AND LOCK WASHERS

FOUR (4) 4"  
STAINLESS  
STEEL PIANO  
TYPE HINGES

6" WHITE REFLECTIVE TAPE  
SECURED WITH (4)  
STAINLESS STEEL STAPLES.  
MINIMUM 1" LAP

MINIMUM 10" WOODEN  
NON-SPLICED PILING

LOCK OR PREAPPROVED  
EQUIVALENT

MAIN  
PANEL

4"x4"  
SPACER

2"x 4" CROSSMAN  
TO EXTEND THE  
WIDTH OF THE SIGN

FLIP  
PANEL

NYLON FLAT WASHER  
BETWEEN STAINLESS  
STEEL FASTENER  
AND ALUMINUM  
SIGN

BOLTS MUST NOT  
EXTEND MORE THAN  
1" BEYOND NUT  
AND WASHER

6' - 9'

MEAN HIGH WATER SURFACE  
(VARIES BASED ON LOCATION)

VARIABLE BASED ON LOCATION

SUBSTRATE  
SURFACE

MINIMUMS:  
8' WHEN SUBSTRATE IS SAND AND/OR SHELL  
10' + WHEN SUBSTRATE IS MUD

**NOTE:**

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6. SIGN(S) MUST BE CENTERED ON SINGLE PILE.

NOT TO SCALE

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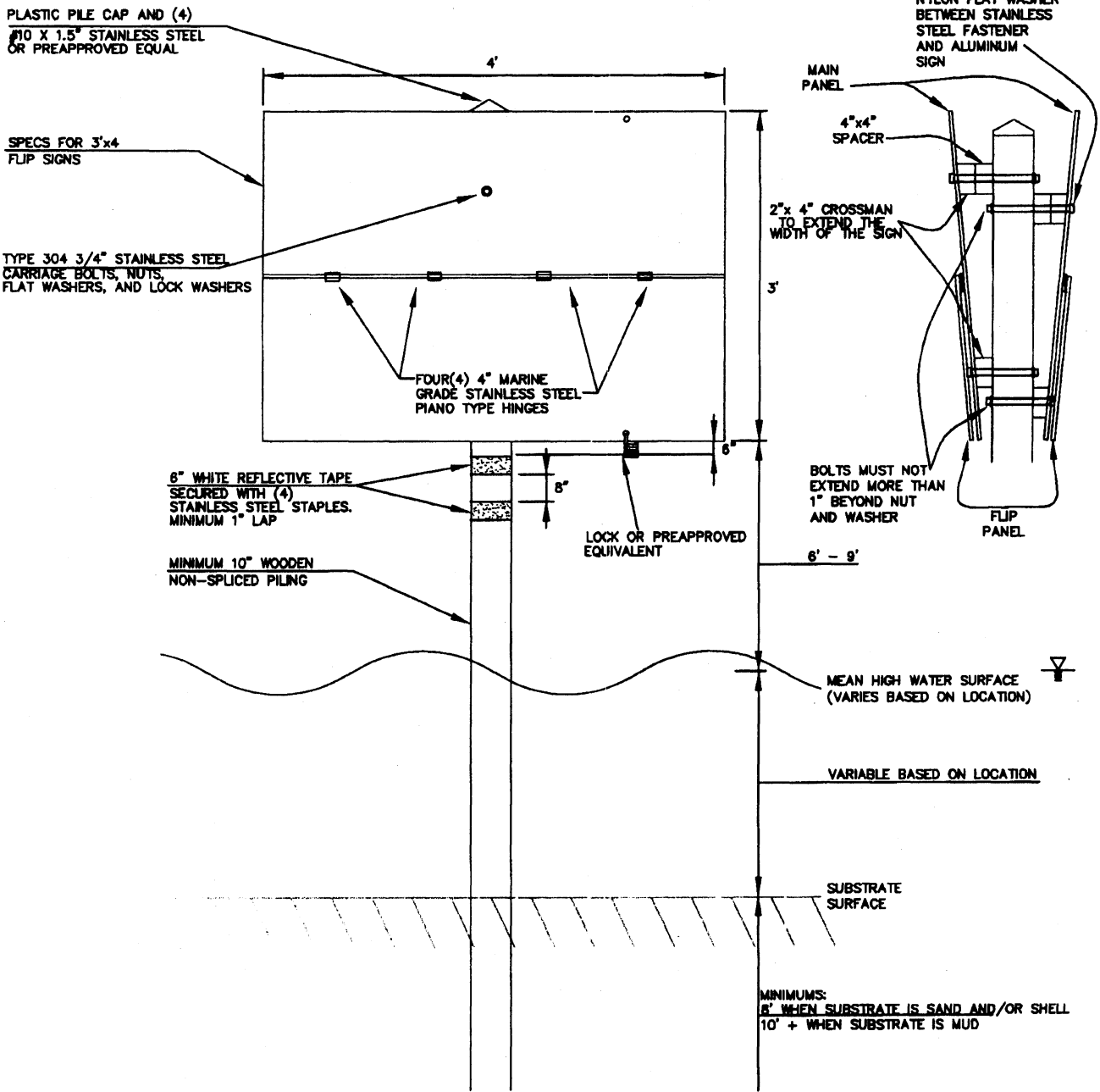


Maintenance & Repair Work  
Uniform Waterway Marker Plans

3'x4' Vertical 1-Sided  
Flip Sign Detail



# ATTACHMENT D



- NOTE:
1. ALL PILINGS MUST BE PRESSURE TREATED LUMBER (2.50 CCA FOR SALTWATER APPLICATIONS; 0.80 CCA, 0.80 ACQ, OR 1.0 ACZA FOR FRESHWATER APPLICATIONS).
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  6. SIGN(S) MUST BE CENTERED ON SINGLE PILE.

NOT TO SCALE

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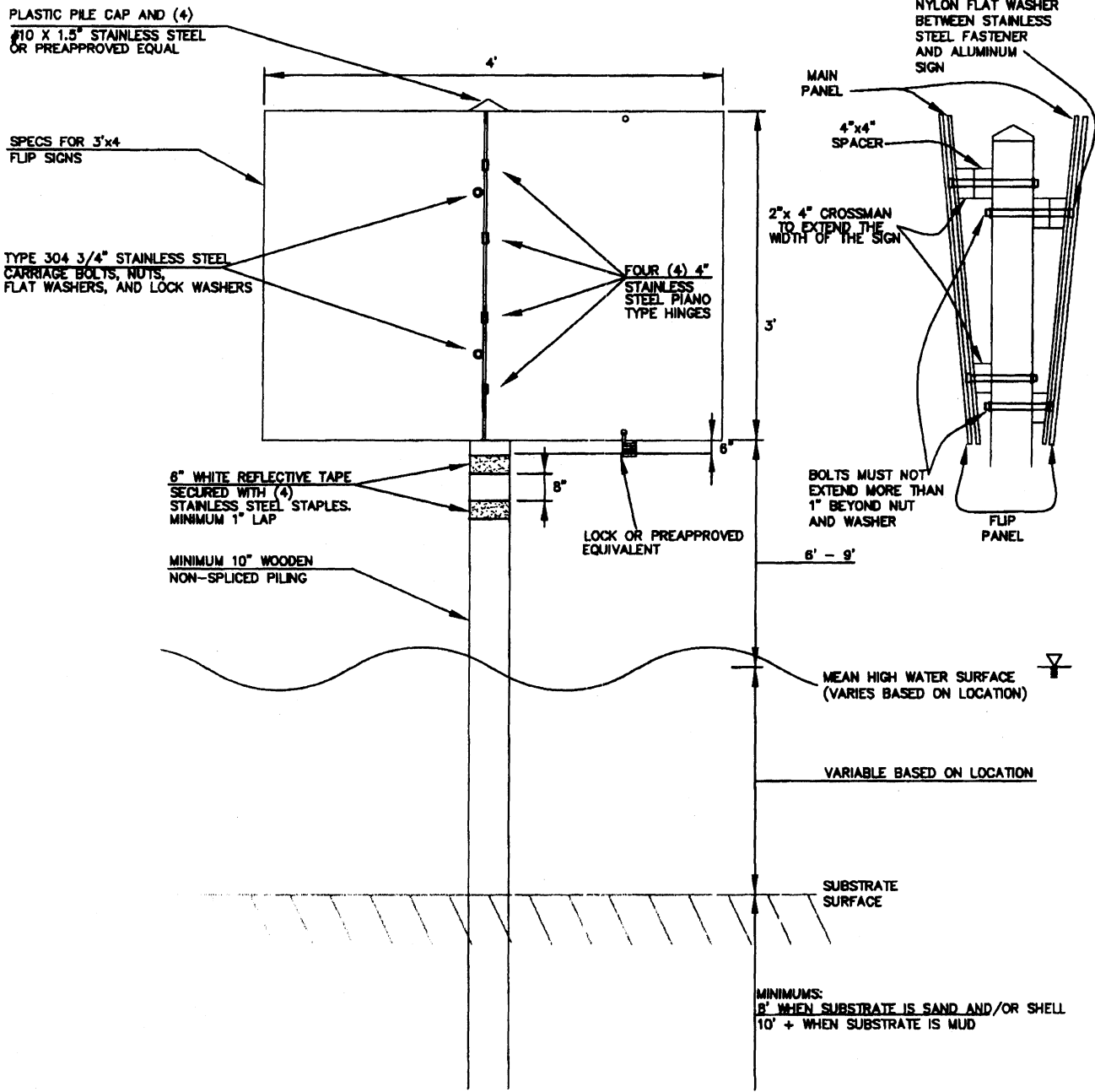


**PBS**

Maintenance & Repair Work  
Uniform Waterway Marker Plans

3'x4' Horizontal 2-Sided  
Flip Sign Detail

# ATTACHMENT D



- NOTE:
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NOT TO SCALE

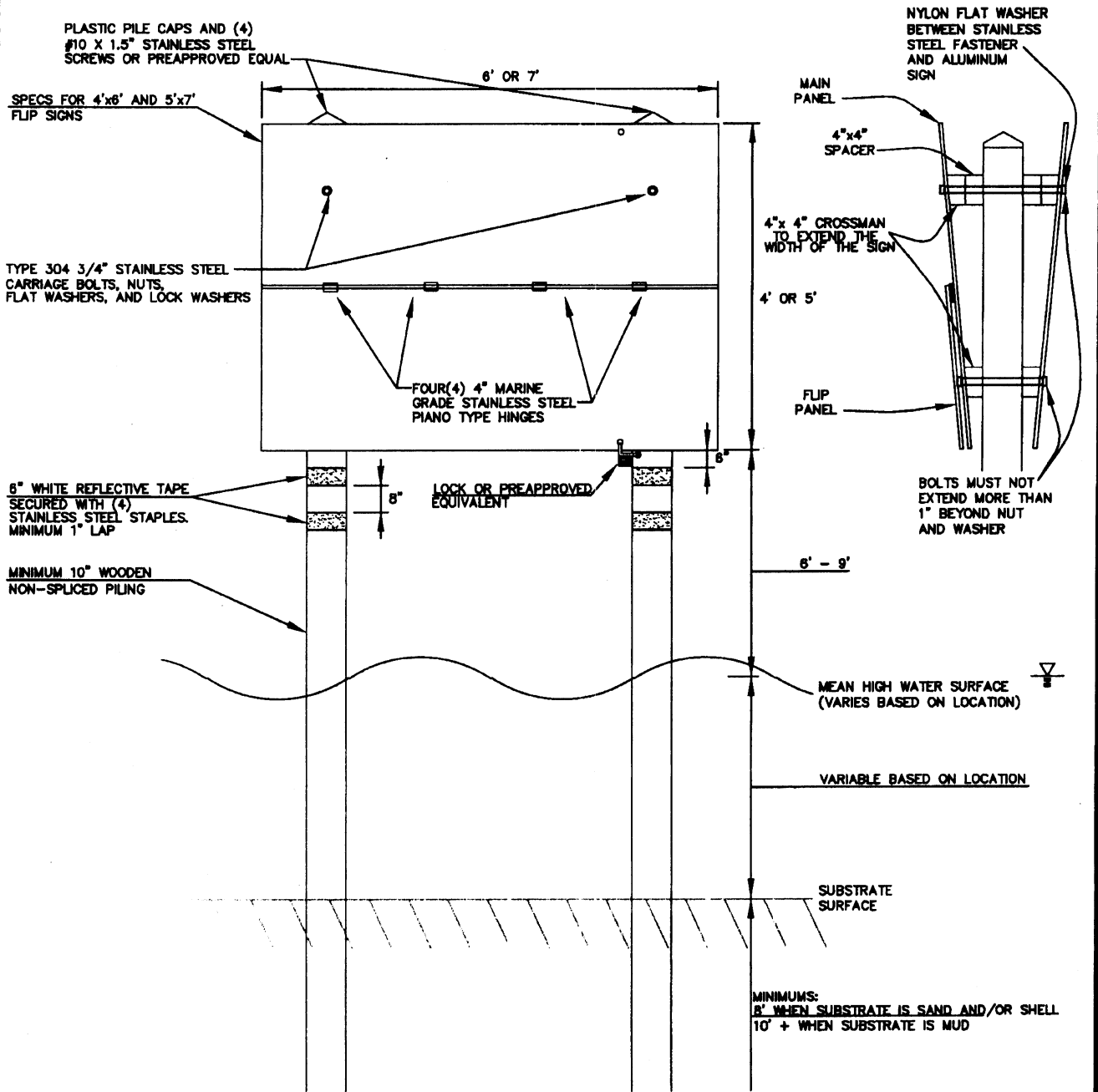
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Maintenance & Repair Work  
Uniform Waterway Marker Plans

3'x4' Vertical 1-Sided  
Flip Sign Detail

# ATTACHMENT D



MINIMUMS:  
 8' WHEN SUBSTRATE IS SAND AND/OR SHELL  
 10' + WHEN SUBSTRATE IS MUD

- NOTE:**
1. ALL PILINGS MUST BE PRESSURE TREATED LUMBER (2.50 CCA FOR SALTWATER APPLICATIONS; 0.80 CCA, 0.80 ACQ, OR 1.0 ACZA FOR FRESHWATER APPLICATIONS).
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NOT TO SCALE

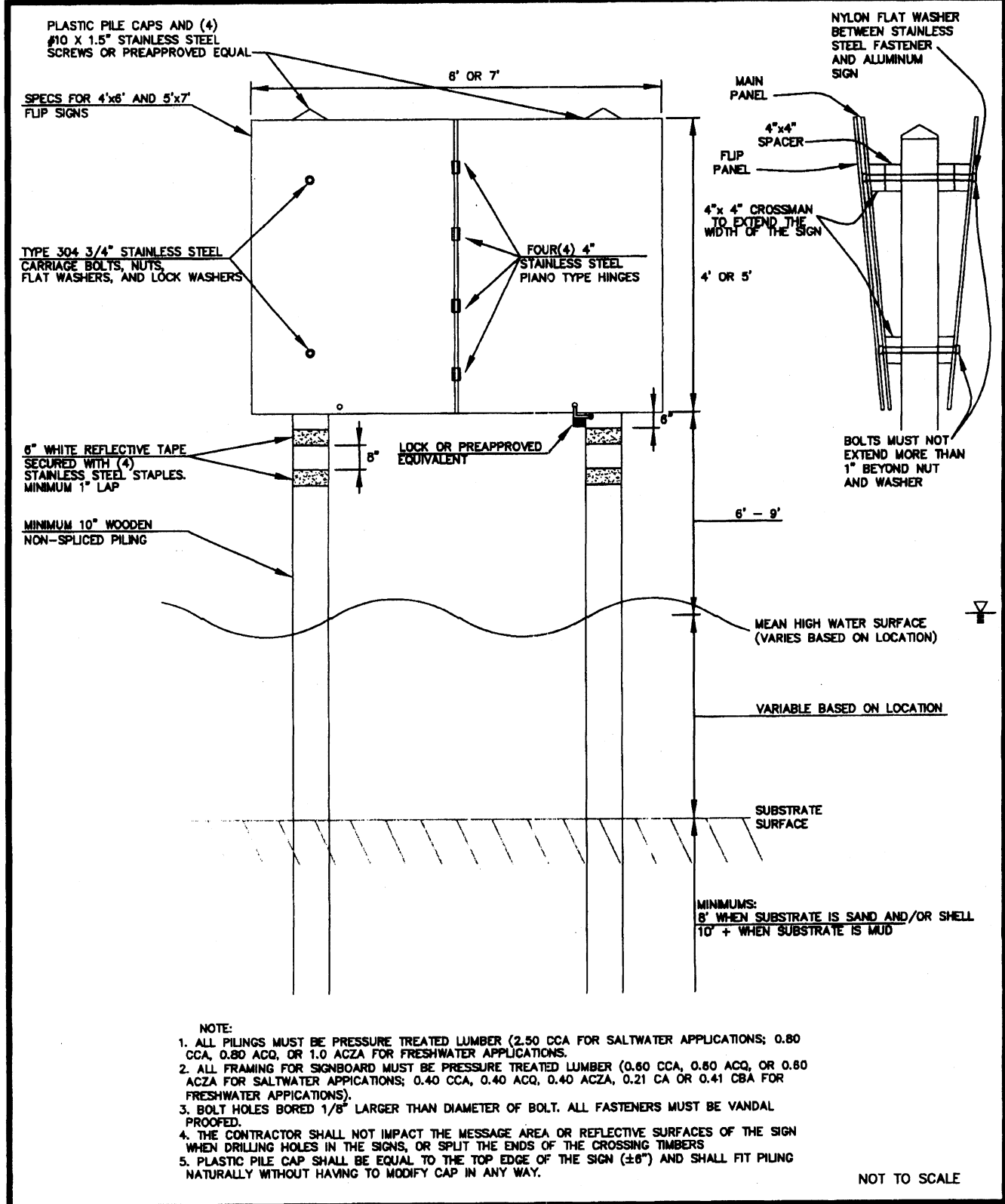
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Maintenance & Repair Work  
 Uniform Waterway Marker Plans

4'x6' or 5'x7' Horizontal  
 1-Sided Flip Sign Detail

# ATTACHMENT D



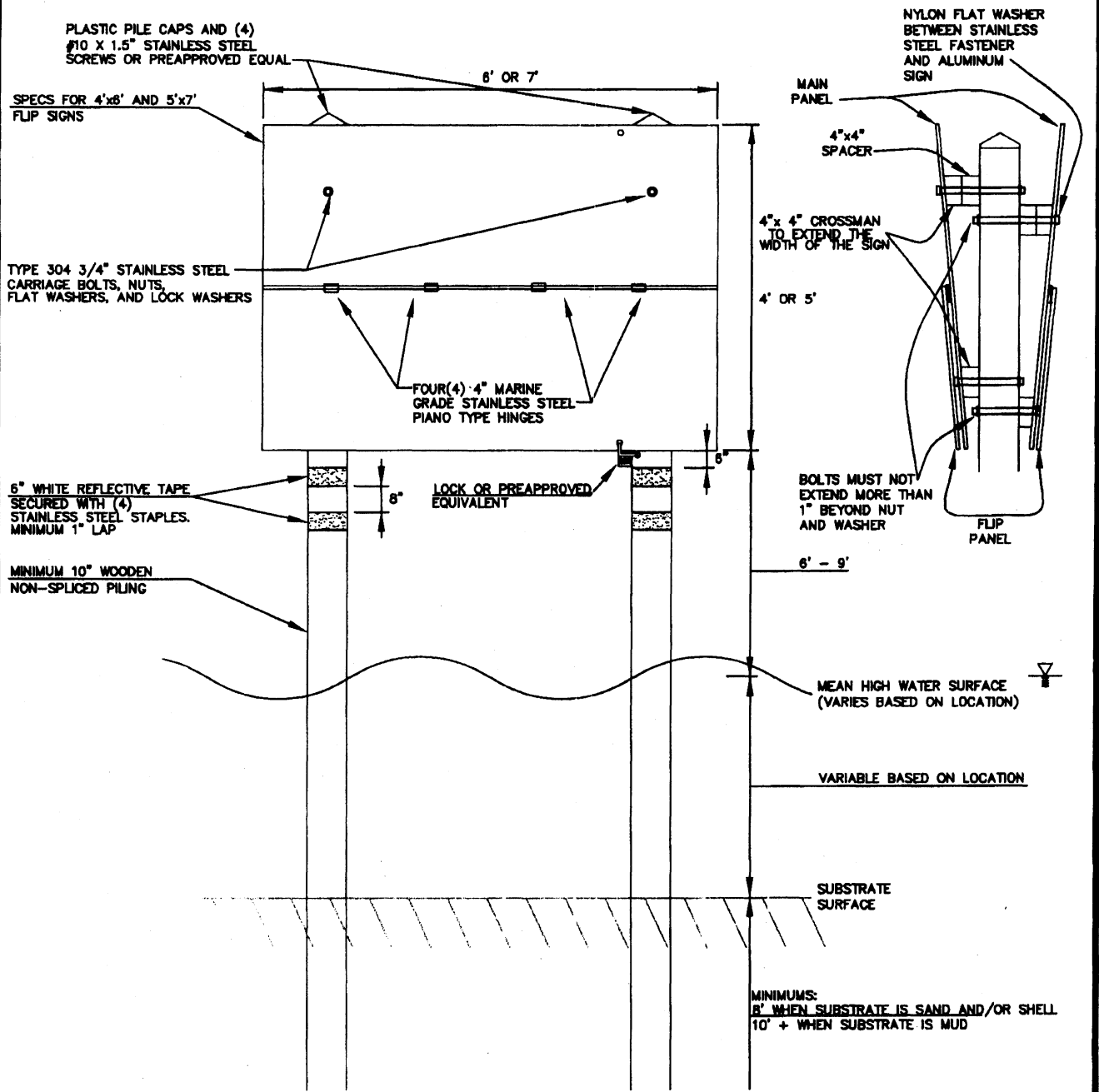
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Maintenance & Repair Work  
Uniform Waterway Marker Plans

4'x6' or 5'x7' Vertical  
1-Sided Flip Sign Detail

# ATTACHMENT D



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NOT TO SCALE

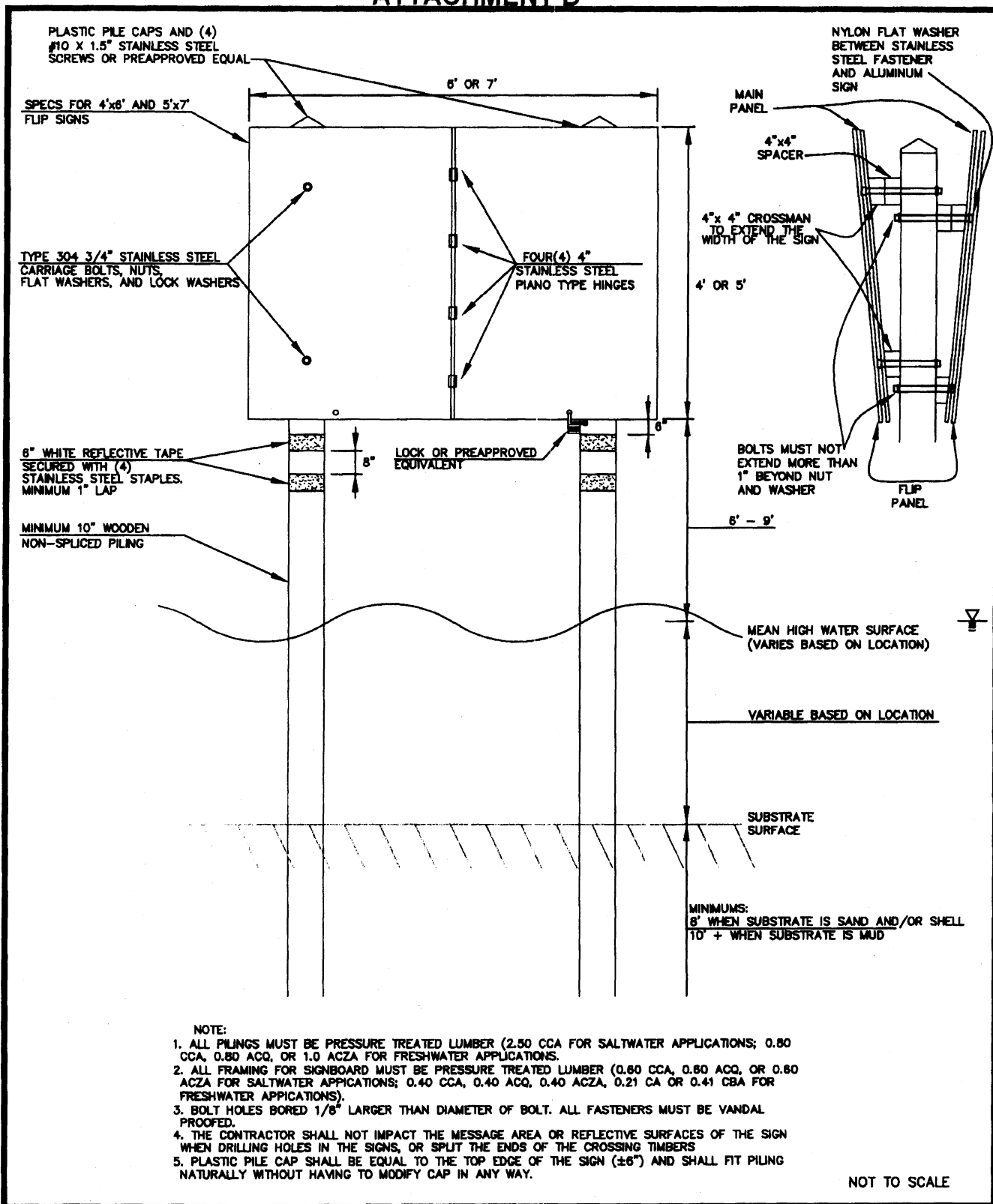
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Maintenance & Repair Work  
Uniform Waterway Marker Plans

4'x6' or 5'x7' Horizontal  
2-Sided Flip Sign Detail

# ATTACHMENT D



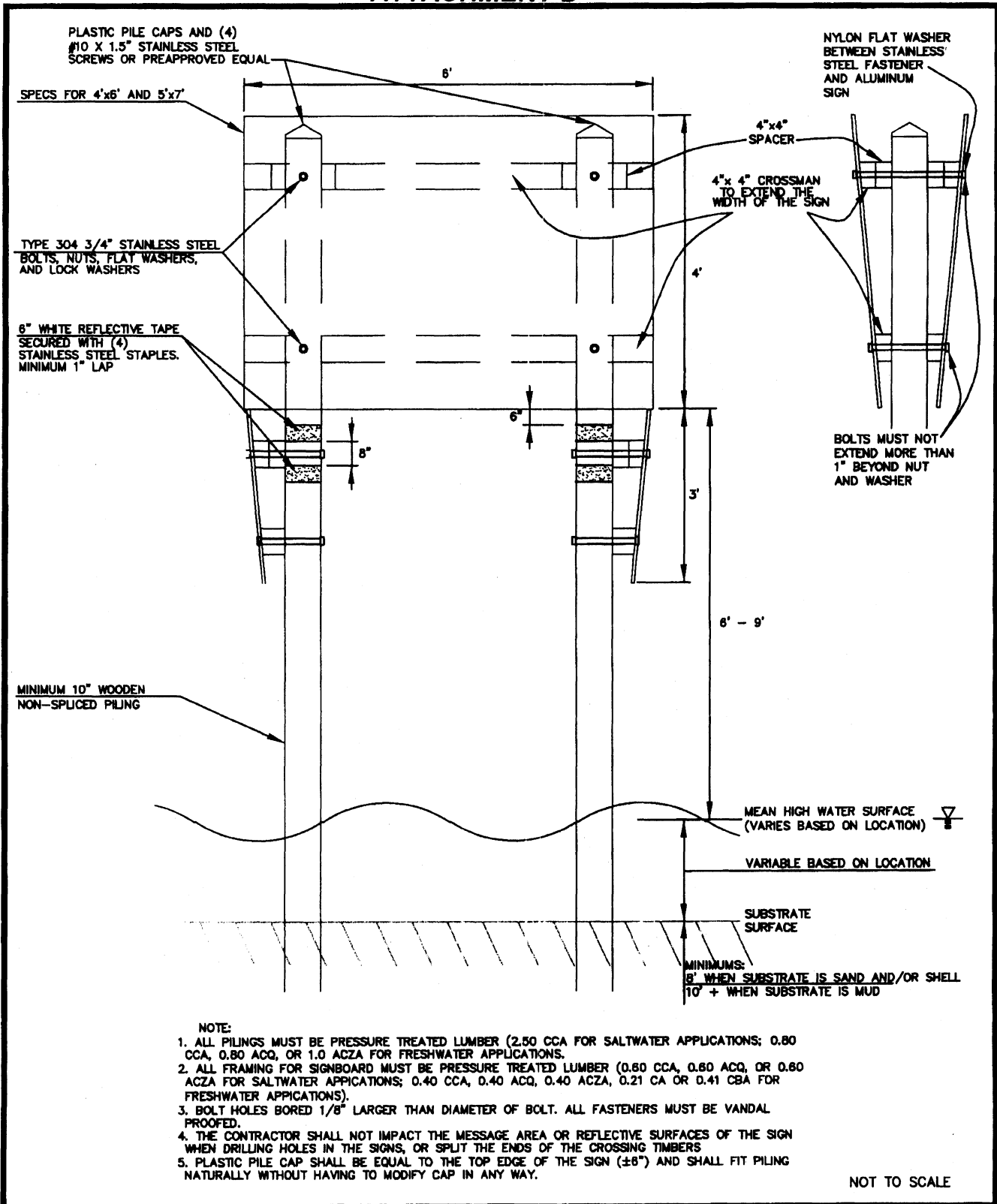
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Maintenance & Repair Work  
Uniform Waterway Marker Plans

4'x6' or 5'x7' Vertical  
2-Sided Flip Sign Detail

# ATTACHMENT D



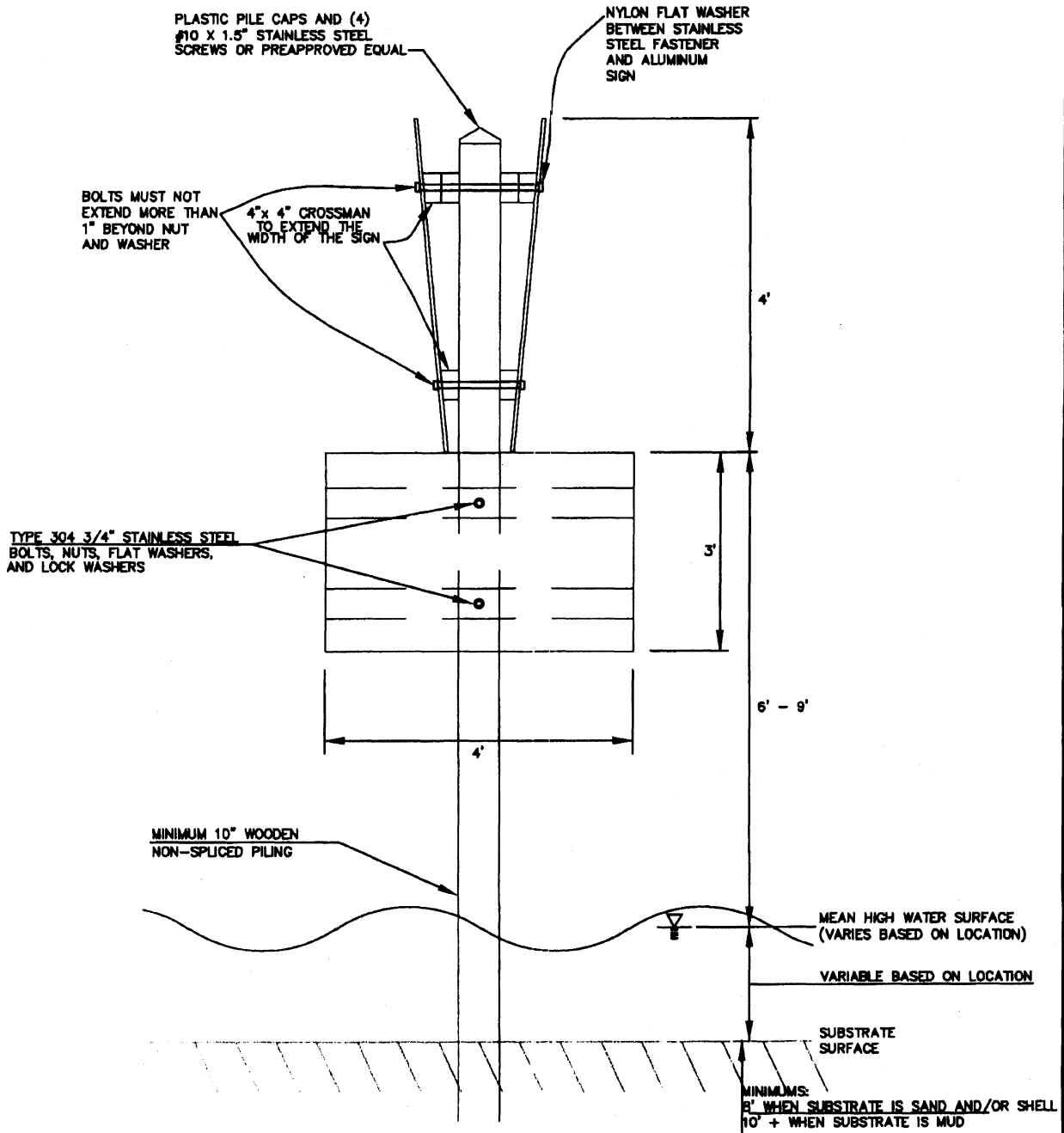
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Maintenance & Repair Work  
Uniform Waterway Marker Plans

4'x6' - 3'x4'  
Two Direction Sign Detail

# ATTACHMENT D



- NOTE:
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NOT TO SCALE

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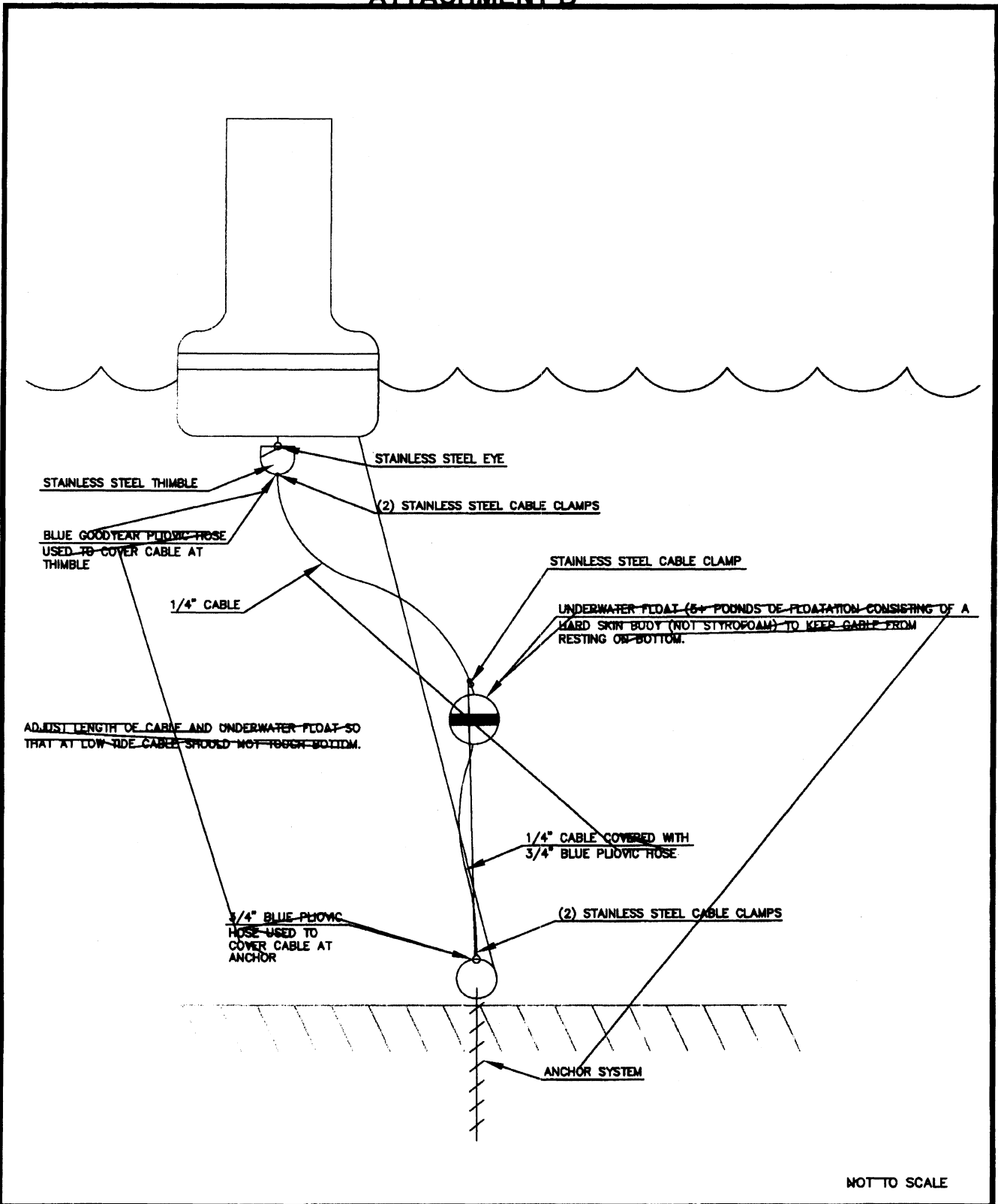


Maintenance & Repair Work  
Uniform Waterway Marker Plans

4'x6' - 3'x4'  
Two Direction Sign Detail  
Profile View



# ATTACHMENT D



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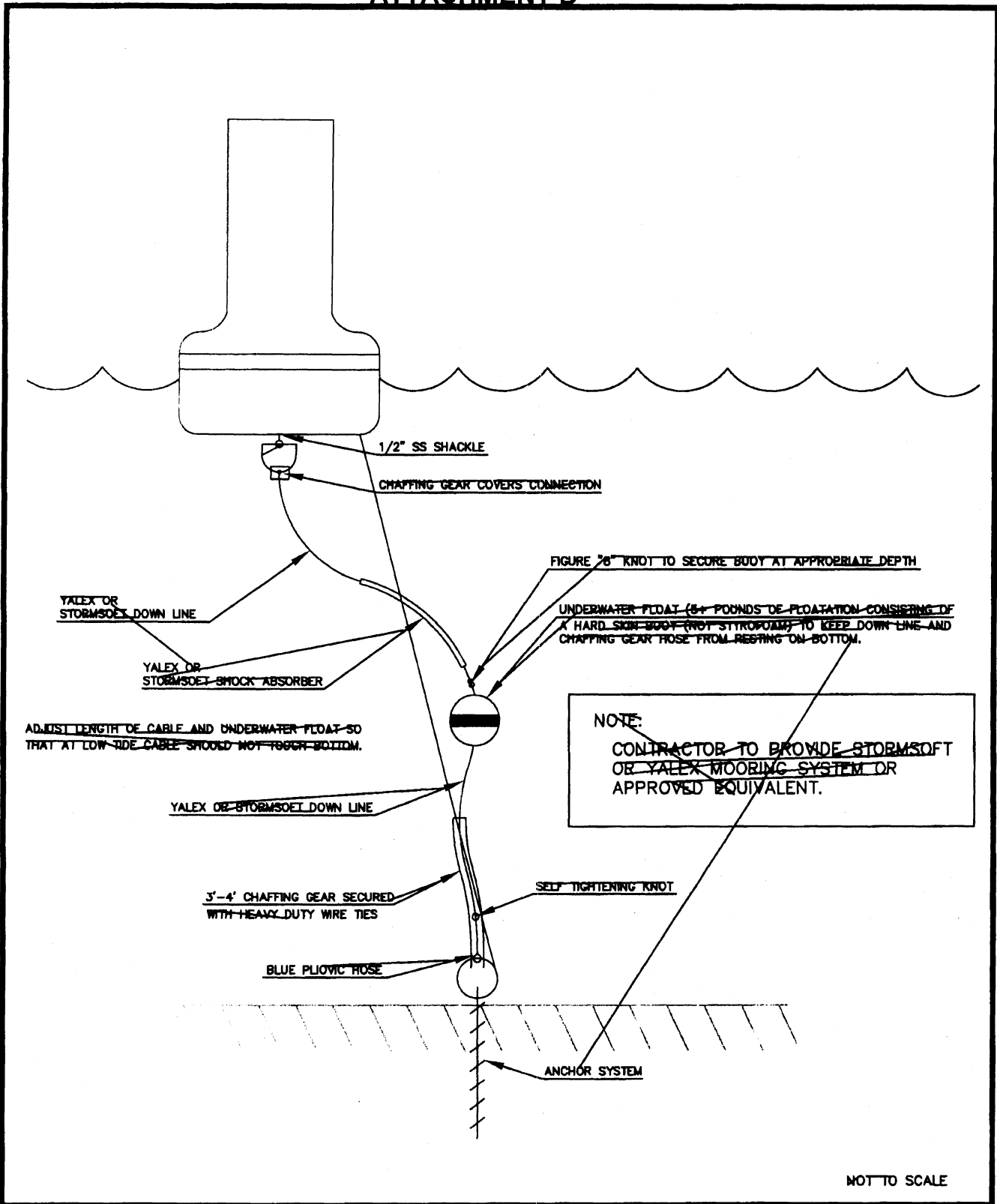


**PBSJ**

Maintenance & Repair Work  
 Uniform Waterway Marker Plans

"Traditional"  
 Mooring System  
 Steel Cable  
 Buoy Detail

# ATTACHMENT D



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**PBSJ**

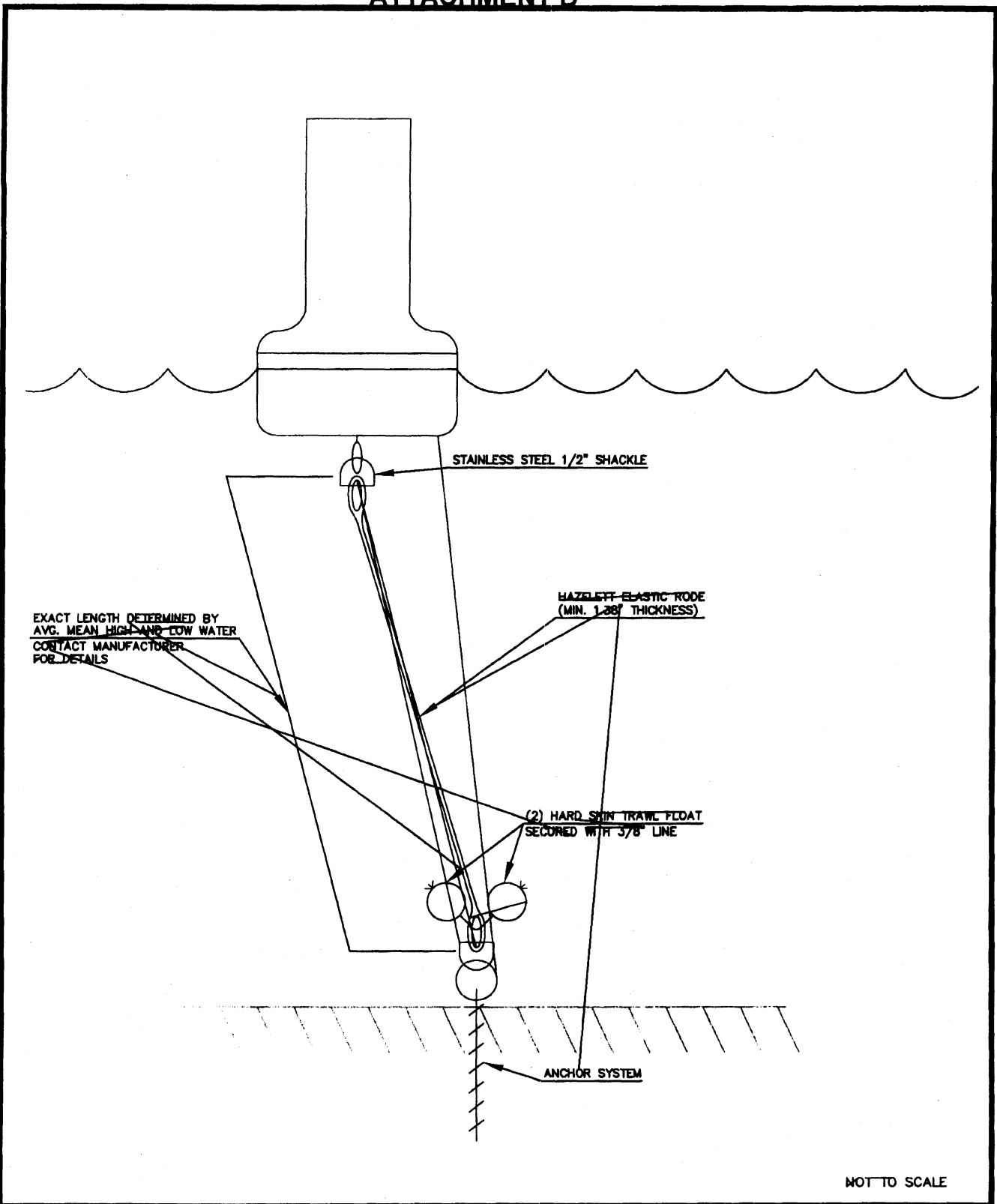
Maintenance & Repair Work

Uniform Waterway Marker Plans

"Elastic"  
 Mooring System

StormSoft, Yalex, or Equivalent  
 Buoy Details

ATTACHMENT D



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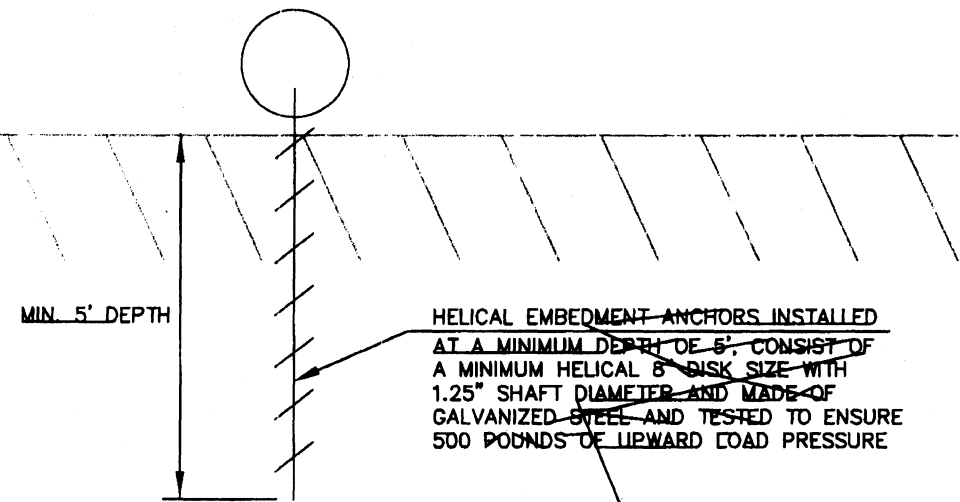


**PBSJ**

Maintenance & Repair Work  
Uniform Waterway Marker Plans

"Elastic"  
Mooring System  
Hazelett Elastic System Rope  
Buoy Detail

# ATTACHMENT D



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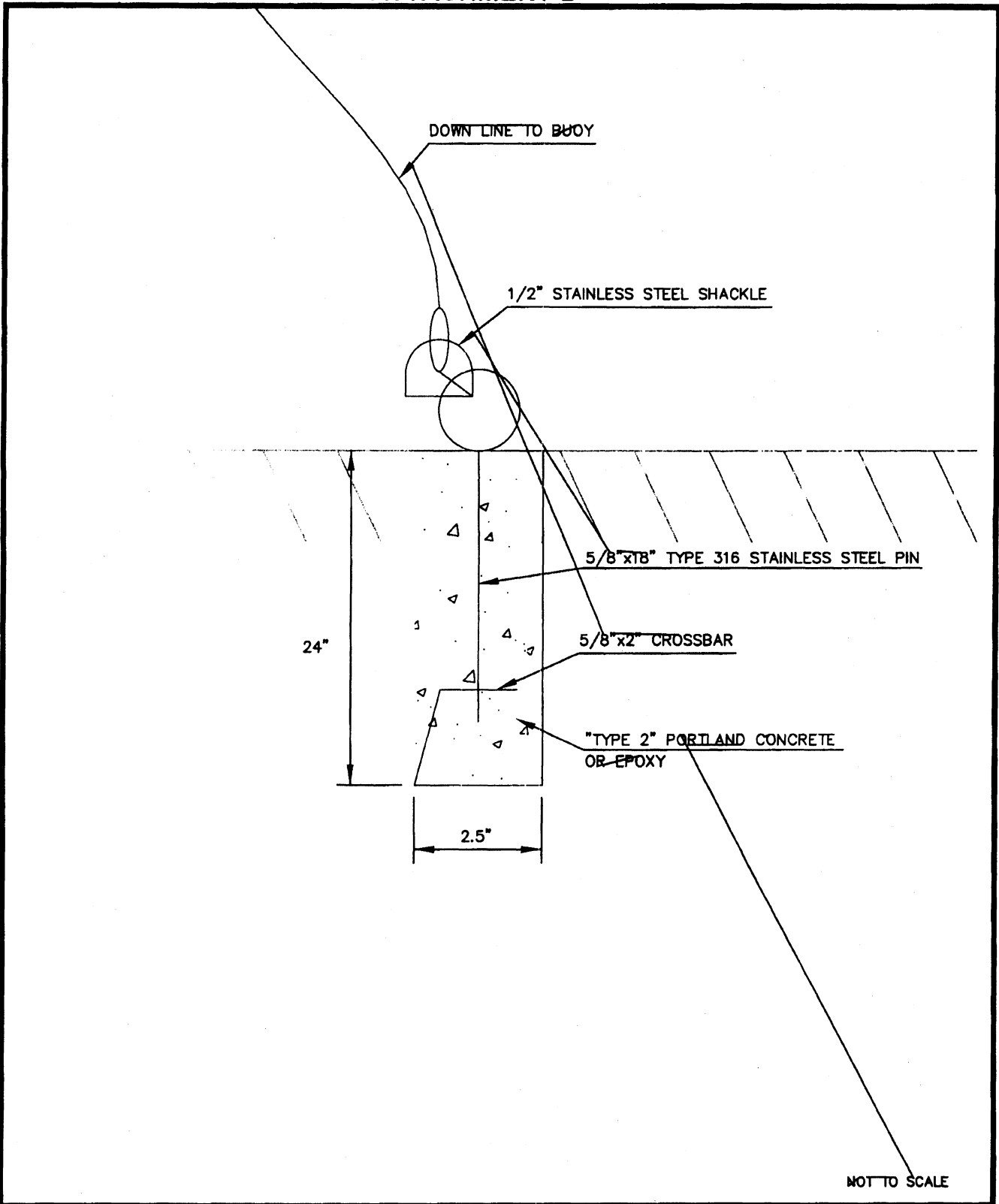
**PBSJ**

Maintenance & Repair Work

Uniform Waterway Marker Plans

Anchor System  
"Helical Embedment"  
Buoy Detail

# ATTACHMENT D



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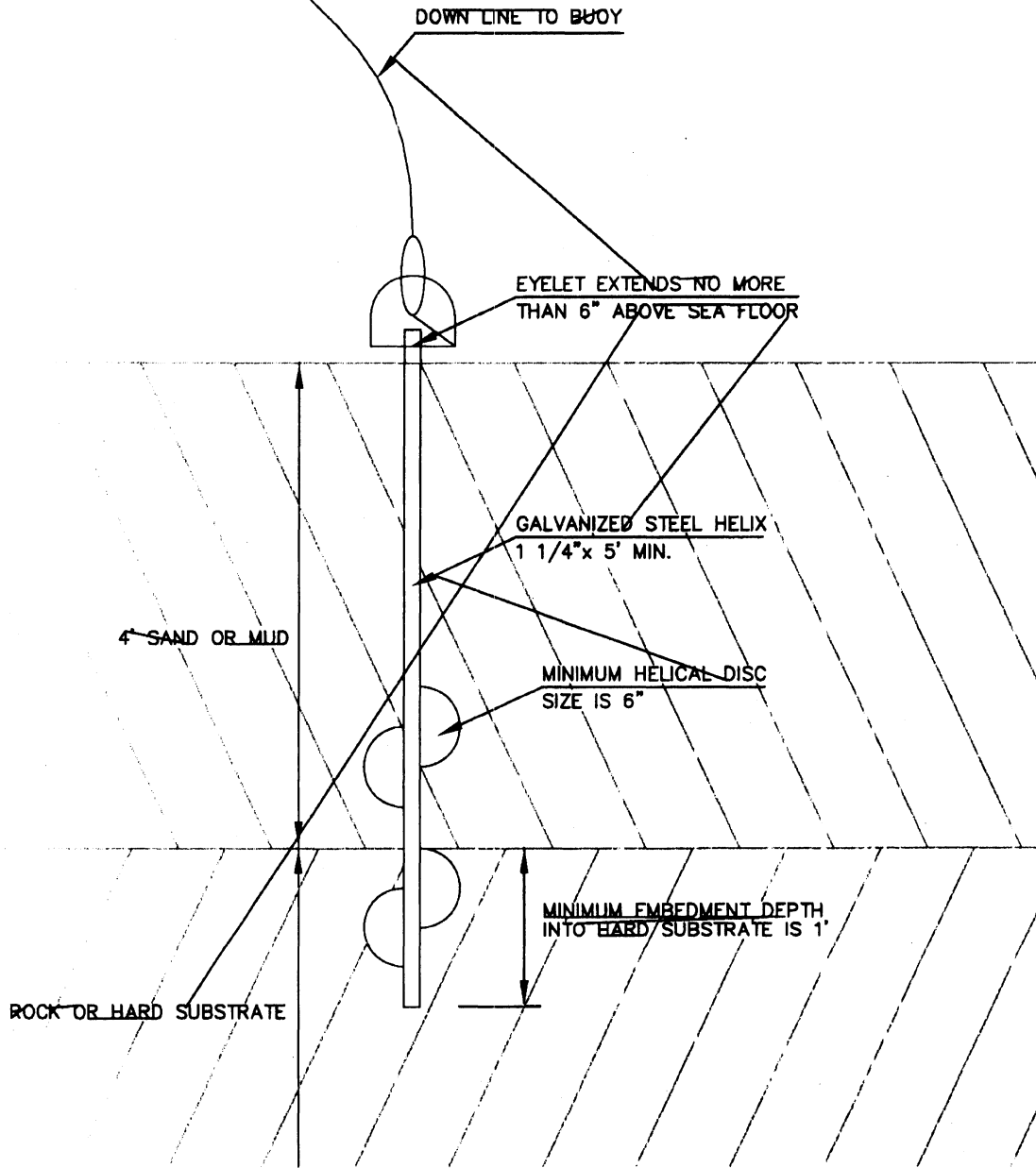


**PBSJ**

Maintenance & Repair Work  
Uniform Waterway Marker Plans

Anchor System  
"Halas Pin"  
Buoy Detail

ATTACHMENT D



NOT TO SCALE

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**PBSJ**

Maintenance & Repair Work  
Uniform Waterway Marker Plans

Anchor System  
"Rock Penetrating Helical  
Embedment Anchor"  
Buoy Detail

# ATTACHMENT D

## TECHNICAL SPECIFICATIONS FOR THE INSTALLATION, REPAIR, AND REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES

### SECTION 02481 – LOCATION

#### PART 1 – GENERAL

##### 1.01 DESCRIPTION

The following technical specifications cover the work locations of all types of waterway markers that could be involved in this contract. Work under this contract will be limited to the specific markers shown on the attached plans or contract addenda or change orders.

##### 1.02 REFERENCES

The CONTRACTOR shall complete all construction in accordance with the waterway marker plans and specifications provided.

##### 1.03 DELIVERY, STORAGE, AND HANDLING (Not Used)

##### 1.04 WARRANTIES (Not Used)

##### 1.05 RELATED WORK

The OWNER/ENGINEER may require additional installation projects, needed repairs, and/or disposals during the contract period. Any additional work shall be completed at the unit prices established in the schedule of values or as otherwise mutually agreed to in writing. Only additional installations, repairs, and/or disposals requested by the OWNER/ENGINEER will be authorized for payment.

##### 1.06 MODIFICATIONS

Any modifications or deviations from the original work plan, written, or detailed technical specifications must be pre-approved prior to construction by the OWNER/ENGINEER.

#### PART 2 – PRODUCTS (Not Used)

#### PART 3 – EXECUTION

##### 3.01 INSTALLATION / APPLICATION / ERECTION

For the installation of waterway markers, the CONTRACTOR will locate sign and/or buoy positions using a WAAS enabled digital global positioning system (DGPS) with WGS-84 map datum. Installed positions shall be within two (2) meters (6 feet) of the location designated by OWNER/ENGINEER on the maps or waterway marker plan. Sign and/or buoy positions are not to be installed within the ICW nor in any location so as to obstruct navigation of the ICW. Discrepancies between the coordinates of the sign location provided on the work order list and/or the graphic representation shown on the maps shall be reported to OWNER/ENGINEER prior to installation.

The CONTRACTOR is to determine if underground or overhead utilities exist at all work locations and propose adjustments to work locations as needed to avoid any damage to

## ATTACHMENT D

SECTION 02481 - LOCATION TECHNICAL SPECIFICATIONS  
INSTALLATION, REPAIR, AND REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES

existing utilities. CONTRACTOR must contact Sunshine Utilities (1-800-432-4770) prior to the commencement of construction.

The CONTRACTOR is to verify water depths and bottom types at all work locations. Depth information on the attached plans (if provided) is approximate and does not reflect tidal fluctuations.

### 3.02 MAINTENANCE

Locations of required maintenance, repair, and replacement of waterway marker elements are provided in the attached waterway marker plans. The CONTRACTOR shall inspect each location prior to commencement of work to verify the condition of each element and to determine the equipment, supplies and effort required. The CONTRACTOR shall provide and install all components necessary for repair or replacement of existing markers, other than sign panels and buoys furnished by the OWNER/ENGINEER. Necessary components shall meet the minimum requirements for new installations. Any discrepancies noted during verification inspection shall be brought to the attention of the OWNER/ENGINEER immediately.

### 3.03 RECORDS

The CONTRACTOR shall maintain records for each sign installation and maintenance site worked under this contract. For each sign site, these records shall include the type of work performed including the number of piles installed, the date of installation, the size and length of the piles, the depth of penetration of each pile, and other work.

The CONTRACTOR must provide the OWNER/ENGINEER with the coordinates in degrees and decimal minutes (example N30°07.980', W81°27.675') for all regulatory markers installed, repaired or maintained. These positions must be accurate to two (2) meters (6 feet) resolution using DGPS, WAAS enabled with WGS-84 map datum. The CONTRACTOR shall provide digital photographs of each marker and marker installation. The photographs must be clear, legible, and identified with the waterway marker plan's reference number.



# ATTACHMENT D

## TECHNICAL SPECIFICATIONS FOR THE INSTALLATION, REPAIR, AND REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES

02482 – PILE & SIGN

### PART 1 – GENERAL

#### 1.01 DESCRIPTION

The following technical specifications cover the installation, repair, and removal of piles and signs involved in this contract. Work under this contract will be limited to the specific markers shown on the attached plans or contract addenda or change orders.

#### 1.02 REFERENCES

The CONTRACTOR shall complete all construction in accordance with the waterway marker plans and specifications provided.

#### 1.03 DELIVERY, STORAGE, AND HANDLING

CONTRACTOR shall contact the OWNER/ENGINEER to coordinate shipping and delivery of signs from the manufacturer. CONTRACTOR will be responsible for signs upon receipt. The CONTRACTOR is responsible for all delivery, storage, and handling of pilings used.

#### 1.04 WARRANTIES

All materials utilized shall be able to withstand the elements under outdoor marine conditions for a continuous period of not less than five (5) years.

#### 1.05 RELATED WORK

The OWNER/ENGINEER may require additional installation projects, needed repairs, and/or disposals during the contract period. Any additional work shall be completed at the unit prices established in the schedule of values or as otherwise mutually agreed to in writing. Only additional installations, repairs, and/or disposals requested in writing by the OWNER/ENGINEER will be authorized for payment.

#### 1.06 MODIFICATIONS

Any modifications or deviations from the original work plan, written, or detailed technical specifications must be pre-approved prior to construction by the OWNER/ENGINEER.

### PART 2 – PRODUCTS

#### 2.01 MATERIAL

Aluminum waterway marker sign panels will be supplied by the OWNER/ENGINEER and installed by the CONTRACTOR. All materials and hardware needed for construction and installation (including treated timber piles) will be supplied by the CONTRACTOR. OWNER/ENGINEER may provide specialized hardware at their discretion.

# ATTACHMENT D

## PART 3 – EXECUTION

### 3.01 INSTALLATION / APPLICATION / ERECTION

All signs shall conform to the Florida Uniform Waterway Marking System in accordance with Florida Statutes 327.40(1).

#### 3.01.1 PILE INSTALLATION

Standard treated timber pilings shall be at least 10" in diameter unless otherwise indicated in the waterway marker plan. For salt or brackish water applications, the timber pilings shall be pressure treated with Chromated Copper Arsenate (2.50), and for freshwater applications, the timber pilings shall be pressure treated with Chromated Copper Arsenate (0.80), Alkaline copper quat. (0.80), or Ammoniacal copper zinc arsenate (1.0). Piles shall be carefully handled with no sudden dropping, breaking of outer fibers, bruising, or penetration of the surface with tools. Bolt holes shall be bored 1/8" larger than the diameter of the bolt. Any piles which require excessive bending in order to frame properly shall be withdrawn and reinstalled to the proper batter. Piles shall not be installed and then pulled into position. Minor adjustment (less than 3° to vertical) is allowed after pile installation; however, CONTRACTOR is fully responsible to ensure soil has settled around the pile so that no listing will occur. Piles damaged, not located in the proper location, or driven out of alignment shall be withdrawn and replaced by new piles or shall be cut off at the mud-line and additional piles installed as directed, all without additional cost to the OWNER/ENGINEER. When installing more than one piling per marker installation, the pile tops shall be cut to equal height ( $\pm 1"$ ). All piles shall be capped with plastic pointed black caps attached with a minimum of (4) #10 x 1.5" stainless steel screws (or preapproved by OWNER/ENGINEER equivalent) and be even with the top edge of the sign to ( $\pm 6"$ ). The cap shall fit the piling naturally without having to modify the pile cap in any fashion to forcefully fit the pile diameter (e.g. splitting a cap to fit a larger diameter piling than the pile cap was designed to fit). For salt or brackish water applications, the crossmen shall be treated with Chromated Copper Arsenate (0.60), Alkaline copper quat. (0.60), or Ammoniacal copper zinc arsenate (0.60), and for freshwater applications, the crossmen shall be treated with Chromated Copper Arsenate (0.40), Alkaline copper quat. (0.40), Ammoniacal copper zinc arsenate (0.40), Copper Azole (0.21), or Copper boron azole (0.41) and attached as shown on the waterway marker plans. Most sign installations will be front and back.

Signs must be installed as indicated on the waterway marker plans with pilings to be shortened as dictated by the normal mean high watermark in the area of installation. The bottom of all signage must be a minimum of 6 feet above the mean high water level and not exceed 9 feet above the mean high water level. Pilings shall penetrate at least 8 feet of sand and/or shell, or at least 10 feet or more of mud, as appropriate to support the marker. If rock is encountered, pre-drilling of the pile hole and /or a pile shoe may be required at no additional cost to the OWNER/ENGINEER. If an augering or punching method is deemed necessary to install piling into rock or hard substrate, the method must first be approved by the OWNER/ENGINEER. If these methods require grouting, the materials and methodology must also be approved by the OWNER/ENGINEER. Pilings shall not be connected, or joined together to lengthen.

# ATTACHMENT D

## SECTION 02482 - PILE & SIGN TECHNICAL SPECIFICATIONS INSTALLATION, REPAIR, AND REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES

Sign or pile assemblies not completed at the end of each work day must be marked and made visible to day and nighttime waterway traffic. However, no more than two (2) pile assemblies (single or double) may be left unfinished at the end of each work day. For pile installation, the CONTRACTOR will supply Reflective Tape Bands in accordance with Section 3.01.7.

### 3.01.2 SIGN INSTALLATION – DOUBLE PILE 4'x6' AND 5'x7'

All installations of 4' x 6' and 5' x 7' signs shall be mounted on two 10" diameter (or larger) standard treated timber pilings. Signs shall be drilled and fastened by penetration of each post by two (2) type 304 3/4" stainless steel through bolts, which must not extend more than 1" or less than 1/2" beyond type 304 stainless steel hex-nut, stainless steel lock washers, and stainless steel flat washers. A nylon flat washer will be placed between stainless steel fasteners and aluminum signs to prevent bi-metallic corrosion. All fasteners shall be vandal proofed.

Timber 4" x 4" crossmen shall be installed at the top and bottom on the back of all signs and 4" x 4" timber spacers at the top of the sign, so that the sign will be slanted out, all in accordance with the waterway marker plan details. For sign installations that are double faced (front and back), the through bolt must extend from front to back sign, through crossmen and pilings.

Sign shall be drilled and fastened to crossmen with 3/8" x 1.5" stainless steel lag bolts, stainless steel lock washers, and stainless steel flat washers adjacent to the four corners of the sign, as shown on the double pile sign detail. A nylon flat washer will be placed between stainless steel fasteners and aluminum signs to prevent bi-metallic corrosion. All fasteners shall be vandal proofed.

### 3.01.3 SIGN INSTALLATION – SINGLE PILE 3'x4'

All installations of 3' x 4' signs shall be mounted on one 10" diameter (or larger) standard treated timber piling. Signs shall be drilled and fastened by penetration of the post by two (2) type 304 stainless steel 3/4" through bolts, which must not extend more than 1" or less than 1/2" beyond type 304 stainless steel hex-nut, stainless steel lock washer, and stainless steel flat washer. A nylon flat washer will be placed between stainless steel fasteners and aluminum signs to prevent bi-metallic corrosion. All fasteners shall be vandal proofed.

Timber 2" x 4" crossmen shall be installed at the top and bottom on the back of all signs and 4" x 4" timber spacers at the top of the sign so that the sign will be slanted out, all in accordance with the plan details. For sign installations that are double faced (front and back), the through bolt must extend from front to back sign, through crossmen and piling.

Sign shall be drilled and fastened to crossmen with 3/8" x 1.5" stainless steel lag bolts, stainless steel lock washers, and stainless steel flat washers adjacent to the four corners of the sign, as shown on the single pile sign detail. A nylon flat washer will be placed between stainless steel fasteners and aluminum signs to prevent bi-metallic corrosion. All fasteners shall be vandal proofed.

### 3.01.4 SIGN INSTALLATION – VERTICAL AND HORIZONTAL FLIP SIGNS

All installations of 3' x 4' vertical and horizontal flip signs shall be mounted on one 10" diameter (or larger) standard treated timber piling. Sign(s) must be centered on single piles. All installations of 4' x 6' and 5' x 7' vertical and horizontal flip signs shall be mounted on two 10" diameter (or larger) standard

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### SECTION 02482 - PILE & SIGN TECHNICAL SPECIFICATIONS INSTALLATION, REPAIR, AND REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES

treated timber pilings. Main sign panels shall be drilled and fastened by penetration of each post by type 304  $\frac{3}{4}$ " stainless steel carriage bolts, which must not extend more than 1" beyond type 304 stainless steel hex-nut, stainless steel lock washers, and stainless steel flat washers. A nylon flat washer will be placed between stainless steel fasteners and aluminum signs to prevent bi-metallic corrosion. All fasteners shall be vandal proofed. When both sides of a double-sided marker are flip signs, the crossmen shall be offset.

Timber 4" x 4" crossmen shall be installed at the top and bottom on the back of all main sign panels and 4" x 4" timber spacers at the top of the sign, so that the sign will be slanted out, all in accordance with the waterway marker plan details. For sign installations that are double faced (front and back), the through bolt must extend from front to back of main sign panel, through crossmen and pilings.

Sign shall be drilled and fastened to crossmen with  $\frac{3}{8}$ " x 1.5" stainless steel lag bolts, stainless steel lock washers, and stainless steel flat washers adjacent to the four corners of the sign, as shown on the horizontal flip sign detail. A nylon flat washer will be placed between stainless steel fasteners and aluminum signs to isolate dissimilar metals from each other. All fasteners shall be vandal proofed.

A vertical flip sign includes a full sized main panel and a flip panel of half the width of the full sized main panel. The inner side edge of the flip panel is attached to the middle of the main panel by the sign manufacturer using stainless steel piano-type hinges, attached using bolts to the hinge manufacturer's specifications.

A 3' x 4' vertical flip sign consists of a 3' x 4' main panel and a 3' x 2' flip panel; a 4' x 6' vertical flip sign consists of a 4' x 6' main panel and a 4' x 3' flip panel; and a 5' x 7' vertical flip sign consists of a 5' x 7' main panel and a 5' x 3-1/2' flip panel. Flip panels shall be attached to the main sign panel using stainless steel hinges. A 3' x 4' vertical flip sign will have two (2) 4" stainless steel piano type hinges and 4' x 6' and 5' x 7' vertical flip signs will have four (4) 4" stainless steel piano type hinges. Each flip panel shall have a hole drilled into the lower outer corner of the flip panel and must be aligned with a hole drilled into the bottom right and left corners of the main panel. The existing lock (if present) shall be used to secure the main and flip panels together. The CONTRACTOR shall coordinate the repair and/or maintenance of markers with existing locks with OWNER/ENGINEER to obtain any key or combinations necessary to unlock existing locks. If no lock is present (i.e. missing or a new flip sign installation) locks or preapproved equivalent (e.g. bolts) appropriate for use in a marine environment will be provided by CONTRACTOR. Each side of the flip panel will be constructed of the same gauge aluminum as the main panel, and be similar in style with regards to reflective sheeting, black block lettering, border, and geometric symbol.

A horizontal flip sign includes a full sized main panel and a flip panel of half the height of the full sized main panel. The top edge of the flip panel is attached to the middle of the main panel by the sign manufacturer, using stainless steel piano-type hinges, attached using bolts to the hinge manufacturer's specifications.

A 3' x 4' horizontal flip sign consists of a 3' x 4' main panel and a 1-1/2' x 4' flip panel; a 4' x 6' vertical flip sign consists of a 4' x 6' main panel and a 2' x 6' flip panel; and a 5' x 7' vertical flip sign consists of a 5' x 7' main panel and a 2-1/2' x

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SECTION 02482 - PILE & SIGN TECHNICAL SPECIFICATIONS  
INSTALLATION, REPAIR, AND REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES

7' flip panel. Flip panels shall be attached to the main sign panel using stainless steel hinges. A 3' x 4' horizontal flip sign will have two (2) 4" stainless steel piano type hinges and 4' x 6' and 5' x 7' horizontal flip signs will have four (4) 4" stainless steel piano type hinges. Each flip panel shall have a hole drilled into the lower middle of the flip panel and must be aligned with holes drilled into the top and bottom middle of the main panel. The existing lock (if present) shall be used to secure the main and flip panels together. The CONTRACTOR shall coordinate the repair and/or maintenance of markers with existing locks with OWNER/ENGINEER to obtain any key or combinations necessary to unlock existing locks. If no lock is present (i.e. missing or a new flip sign installation) locks or preapproved equivalent (e.g. bolts) appropriate for use in a marine environment will be provided by CONTRACTOR. Each side of the flip panel will be constructed of the same gauge aluminum as the main panel, and be similar in style with regards to reflective sheeting, black block lettering, border, and geometric symbol.

### 3.01.5 PROTECTION OF THE SIGNS

Signs will not have predrilled holes. The CONTRACTOR shall not impact the message area or reflective surfaces of the sign when drilling holes in the signs, or split the ends of the 2" x 4" or 4" x 4" crossmen timbers on the backs of signs. The CONTRACTOR will replace, at its own expense, any signs that it damages during the delivery and installation process.

### 3.01.6 SIGN SPECIFICATIONS AND LETTERING

Waterway marker signs have been or will be purchased and furnished by the Florida Fish & Wildlife Conservation Commission (FWC) or the OWNER/ENGINEER and delivered directly to the CONTRACTOR. The OWNER/ENGINEER will provide the CONTRACTOR with sign graphics and a list to ensure accuracy in sign sizes and numbers of each sign ordered. The CONTRACTOR will verify that signs have been delivered in good condition and contain the following lettering:

Black block 1" lettering stating the permit number shall appear on the lower left and the rule/ordinance number shall appear on the lower right. If needed, the verbiage "Manatee Zone" or "Boating Safety Zone" shall be black block 3" lettering. Regulatory lettering (example: Slow Speed Minimum Wake, Idle Speed No Wake, and Resume Normal Safe Operation) shall be black block lettering and centered within sign panel. Unless specifically requested, the verbiage "Manatee Zone" or "Boating Safety Zone" shall not appear on signs stating "Resume Normal Safe Operation".

### 3.01.7 REFLECTIVE TAPE BANDS

The CONTRACTOR shall supply two 6" single-bands of 3M High Intensity (#3870) White Reflective Tape that are to be placed around each piling, with a minimum of a 1" lap (the entire 6" width of the tape) with the first band being placed 6" from the bottom of the sign, and the second band being placed 8" from the bottom of the first band. If the tape becomes delaminated, cracked, checked, weathered, or abraded so as to have a brittle or roughened surface within the warranty period, it must be replaced.

If any tape is to be applied to existing piles, the old tape shall be completely removed and appropriately disposed of before applying the replacement

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reflective tape. In addition, all tape shall be adequately secured with a minimum of 4 stainless steel staples or otherwise in accordance with the manufacturer's recommendations.

## 3.02 MAINTENANCE

Descriptions of required maintenance, repair, and replacement of waterway marker elements are provided in the attached waterway marker plans. The CONTRACTOR shall inspect each location prior to commencement of work to verify the condition of each element and to determine the equipment, supplies, and effort required. The CONTRACTOR shall provide and install all components necessary for repair or replacement of existing markers, other than sign panels furnished by the OWNER/ENGINEER. Necessary components shall meet the minimum requirements for new installations. Any discrepancies noted during verification inspection shall be brought to the attention of the OWNER/ENGINEER immediately.

### 3.02.1 CLEANING OF SIGNS

Signs that are soiled with fecal matter, marine residue, mold, mud, or other matter will be cleaned to bring them back into compliance with uniform waterway marker standards. The CONTRACTOR shall use methods that will not damage existing reflective sign panels, tape, fasteners, piles, or other sign elements. Any chemicals, soaps, or other materials must be free of phosphates, ammonia, sodium hypochlorite, chlorinated solvents, petroleum distillates, or lye. Cleaners must also be biodegradable and must be safe for the marine environment in accordance with Florida Department of Environmental Protection Rules and Regulations.

The CONTRACTOR shall submit all Material Safety Data Sheets (MSDS) to the OWNER/ENGINEER for approval prior to use of any chemicals or soaps. If pressure washing systems are used, the CONTRACTOR shall protect reflective coverings, tape or other elements that could be damaged or become dislodged during cleaning. The CONTRACTOR should avoid the use of abrasive cleaners that could damage the finish of sign panels. Any damage caused by cleaning methods employed by the CONTRACTOR shall be repaired at no cost to the OWNER/ENGINEER.

### 3.02.2 DAMAGED OR DISPLACED PILES

Piles that are cracked, split, or otherwise damaged beyond repair must be removed and replaced with new piles of the same material, dimensions, and locations in accordance with these specifications.

Piles that have moved from vertical position and are not damaged must be straightened to an upright position. A pile that remains loose after straightening may indicate that the piling located beneath the water surface has been damaged or decayed, and will require removal. Any damage observed on a pile that was to be straightened to an upright position shall be reported to the OWNER/ENGINEER. The OWNER/ENGINEER's representative will make the final determination regarding replacement of the pile.

Piles shall be removed in accordance with item 3.02.3 below and shall be re-installed in accordance with item 3.01 of this technical specification.

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SECTION 02482 - PILE & SIGN TECHNICAL SPECIFICATIONS  
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### 3.02.3 PILING / SIGN REMOVAL AND DISPOSAL

Steel, timber, or concrete piles shall be removed by the CONTRACTOR at the locations indicated on the attached waterway marker plans. Timber pilings are typically 10" diameter and are assumed to have been jetted into the bottom. The CONTRACTOR shall make every effort to remove each piling in its entirety by pulling or using a jet pump. Should the CONTRACTOR be unable to remove the piling, it may be cut, but the cut must occur at or below the mud line. If removal by cutting is required, the CONTRACTOR shall record the location and provide certification that the piling was cut at or below the mud line.

All items removed must be properly disposed of in compliance with all federal, state, and local laws and ordinances.

### 3.03 RECORDS

The CONTRACTOR shall maintain records for each marker installation and maintenance site worked under this contract. For each marker site, these records shall include the type of work performed including the number of piles installed, the date of installation, the size and length of the piles, the depth of penetration of each pile, and other work.

The CONTRACTOR must provide the OWNER/ENGINEER with the coordinates in degrees and decimal minutes (example: N30° 07.980', W81° 27.675') for all markers installed, repaired or maintained. These positions must be accurate to two (2) meters (6 feet) resolution using DGPS, WAAS enabled with WGS-84 map datum. The CONTRACTOR shall provide digital photographs of each marker and marker installation. The photographs must be clear, legible, and identified with the waterway marker plan's reference number.

# ATTACHMENT D

## TECHNICAL SPECIFICATIONS FOR THE INSTALLATION, REPAIR, AND REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES

### 02483 – BUOYS

#### PART 1 – GENERAL

##### 1.01 DESCRIPTION

The following technical specifications cover the installation, repair, and removal of buoys. Work under this contract will be limited to the specific markers shown on the attached plans or contract addenda or change orders.

##### 1.02 REFERENCES

The CONTRACTOR shall complete all construction in accordance with the waterway marker plans and specifications provided.

##### 1.03 DELIVERY, STORAGE, AND HANDLING

CONTRACTOR shall contact the OWNER/ENGINEER to coordinate shipping and delivery of buoys from the manufacturer. CONTRACTOR will be responsible for buoys upon receipt.

##### 1.04 WARRANTIES

All materials utilized shall be able to withstand the elements under outdoor marine conditions for a continuous period of not less than five (5) years.

##### 1.05 RELATED WORK

The OWNER/ENGINEER may require additional installation projects, needed repairs, and/or disposals during the contract period. Any additional work shall be completed at the unit prices established in the schedule of values or as otherwise mutually agreed to in writing. Only additional installations, repairs, and/or disposals requested in writing by the OWNER/ENGINEER will be authorized for payment.

##### 1.06 MODIFICATIONS

Any modifications or deviations from the original work plan, written, or detailed technical specifications must be pre-approved prior to construction by the OWNER/ENGINEER.

#### PART 2 – PRODUCTS

##### 2.01 MATERIAL

Buoys will be supplied by the OWNER/ENGINEER and installed by the CONTRACTOR. All other materials and hardware needed for construction and installation (including buoy hardware and anchors) will be supplied by the CONTRACTOR.



# ATTACHMENT D

## **PART 3 – EXECUTION**

### **3.01 INSTALLATION / APPLICATION / ERECTION**

All buoys shall conform to the Florida Uniform Waterway Marking System in accordance with Florida Statutes 327.40(1). CONTRACTOR must provide proof to the OWNER/ENGINEER that the company used to provide any buoy or anchor service has their commercial diving certifications that meet OSHA and United States Coast Guard requirements.

#### **3.01.1 MOORING SYSTEMS**

Galvanized and stainless steel parts cannot be interchanged.

##### **3.01.1.1 TRADITIONAL BUOY MOORING SYSTEM**

A minimum of two (2) clamps will be used at each anchor point. Total cable length shall be left to CONTRACTOR's discretion to ensure that tidal fluctuations do not fatigue the cable. The CONTRACTOR shall utilize all necessary stainless steel hardware for saltwater or freshwater installation (shackle, thimble, clamps, and 1/4" stainless steel wire (line/cable). The wire (line/cable) shall NOT be insulated/encased with a plastic coating. To reduce friction, Blue (Goodyear) Pliovic Hose or equivalent shall be used to cover the cable and the anchor and buoy connections.

##### **3.01.1.2 ELASTIC MOORING SYSTEMS**

Contractor may provide alternative product comparable in performance to the three mooring systems listed below, but it must be approved by the OWNER/ENGINEER prior to installation.

##### **STORMSOFT MOORING SYSTEM**

As identified in the waterway marker plans, a minimum of 5/8" StormSoft down line shall be used. Attach to anchor by passing the StormSoft line through Blue (Goodyear) Pliovic Hose or equivalent at anchor point and secured with self tightening knot. Encase bottom 3-4 feet of line and shackle connection with chafing gear and secure with heavy duty wire ties. A figure 8 knot should be tied above the underwater float at proper depth. To reduce friction, Blue (Goodyear) Pliovic Hose or equivalent shall be used to cover the line where it connects to the anchor. Attach line to 1/2" stainless steel shackle by looping line back through factory splice. (All shackles are to be "safety wired" to prevent malfunction).

##### **YALEX MOORING SYSTEM**

As identified in the waterway marker plans, a minimum of 3/4" Yalex down line shall be used. Attach to anchor by passing line through Blue (Goodyear) Pliovic Hose or equivalent at anchor point and secured with self tightening knot. Encase bottom 3-4 feet of line and shackle connection with chafing gear and secure with heavy duty wire ties. A figure 8 knot shall be tied above the underwater float at proper depth. To

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reduce friction, Blue (Goodyear) Pliovic Hose or equivalent shall be used to cover the line where it connects to the anchor. Attach line to ½" stainless steel shackle by looping line back through factory splice. (All shackles are to be "safety wired" to prevent malfunction).

## HAZELETT ELASTIC RODE SYSTEM

As identified in the waterway marker plans, a minimum of 3/8" line shall be used. Total length shall be left to CONTRACTOR's discretion to ensure that tidal fluctuations do not fatigue the line. Attach a minimum of ½" shackle to anchor system and elastic rode. Safety wire shackle pin to prevent pin from backing out. Attach two hard skin trawl buoys to rode by attaching line through preformed hole above eyelet at anchor end and passing through each buoy and securing with knot. Attach rode to buoy with a minimum of ½" stainless steel shackle and safety wire pin to prevent backing out of place. (All shackles are to be "safety wired" to prevent malfunction).

### 3.01.2 ANCHOR SYSTEMS

The anchor system utilized will depend on depth and type of substrate material.

#### 3.01.2.1 ANCHOR INSTALLATIONS WITHIN SAND OR MUD SUBSTRATE GREATER THAN FOUR (4) FEET:

A helical type embedment anchor shall be used (minimum length of 5') that consists of a minimum helical 8" disk size with 1 ¼" shaft diameter and made of galvanized steel. Anchor shall be embedded within substrate to a point where the eye is no more than 6" above the substrate.

#### 3.01.2.2 ANCHOR INSTALLATIONS WITHIN ROCK SUBSTRATE:

The Halas pin system shall be used during the installation into exposed rock substrate. The pin material shall be AISI type 316 stainless steel.

- Minimum embedment depth is 18"
- Minimum pin size is 5/8"x18"
- A crossbar shall be welded at bottom of pin, and pin shall be set within Portland type II cement or an epoxy of equal or greater strength
- Drilled hole shall be 2 ½"x24"
- Attachment eye shall be 3" diameter welded closed and set in such a way that the sides of the eye contact the substrate and the weld is set below the lip of the hole

#### 3.01.2.3 ANCHOR INSTALLATIONS WITHIN ROCK SUBSTRATE COVERED BY SAND LESS THAN FOUR (4) FEET:

A rock-penetrating helical embedment anchor (galvanized steel) shall be used. Anchor shall be embedded a minimum of 1' into rock substrate.

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SECTION 02483 - BUOY TECHNICAL SPECIFICATIONS  
INSTALLATION, REPAIR, AND REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES

- Minimum anchor length 5', minimum helical disc size 6", and minimum shaft diameter of 1 1/4"
- The attachment eye shall be no more than 6" above the substrate

## 3.02 BUOY SPECIFICATIONS AND LETTERING

Buoys will be furnished by the OWNER/ENGINEER and delivered to the CONTRACTOR. The CONTRACTOR will verify that buoys have been delivered in good condition, are the correct size, and contain the correct lettering, permit, and rule numbers, as identified on the waterway marker plans.

## 3.03 MAINTENANCE

Descriptions of required maintenance, repair, and replacement of waterway marker elements are provided in the attached waterway marker plans. The CONTRACTOR shall inspect each location prior to commencement of work to verify the condition of each element and to determine the equipment, supplies, and effort required. The CONTRACTOR shall provide and install all components necessary for repair or replacement of existing markers, other than buoys furnished by the OWNER/ENGINEER. Necessary components shall meet the minimum requirements for new installations. Any discrepancies noted during verification inspection shall be brought to the attention of the OWNER/ENGINEER immediately.

### 3.03.1 CLEANING OF BUOYS

Buoys that are soiled with fecal matter, marine residue, mold, mud, or laden with marine life will be cleaned to bring them back into compliance with uniform waterway marker standards. The CONTRACTOR shall use methods that will not damage materials, fasteners, or other marker elements. Any chemicals, soaps, or other materials must be free of phosphates, ammonia, sodium hypochlorite, chlorinated solvents, petroleum distillates, or lye. Cleaners must also be biodegradable and must be safe for the marine environment in accordance with Florida Department of Environmental Protection Rules and Regulations.

The CONTRACTOR shall submit all Material Safety Data Sheets (MSDS) to the OWNER/ENGINEER for approval prior to use of any chemicals or soaps. If pressure washing systems are used, the CONTRACTOR shall protect reflective coverings, tape, or other elements that could be damaged or become dislodged during cleaning. The CONTRACTOR should avoid the use of abrasive cleaners that could damage the finish of sign panels. Any damage caused by cleaning methods employed by the CONTRACTOR shall be repaired at no cost to the OWNER/ENGINEER.

### 3.03.2 BUOY REMOVAL AND DISPOSAL

All items removed must be properly disposed of in compliance with all federal, state, and local laws and ordinances.

## 3.04 RECORDS

The CONTRACTOR shall maintain records for each buoy installation and maintenance site worked under this contract. For each marker site, these records shall include the type of work performed including the number of buoys installed, the date of installation, the buoy type, the type and length of the mooring system, the depth of the water, and other work.

## ATTACHMENT D

SECTION 02483 - BUOY TECHNICAL SPECIFICATIONS  
INSTALLATION, REPAIR, AND REMOVAL OF UNIFORM WATERWAY MARKERS AND RELATED SERVICES

The CONTRACTOR must provide the OWNER/ENGINEER with the coordinates in degrees and decimal minutes (example: N30° 07.980', W81° 27.675') for all markers installed, repaired or maintained. These positions must be accurate to two (2) meters (6 feet) resolution using DGPS, WAAS enabled with WGS-84 map datum. The CONTRACTOR shall provide digital photographs of each marker and marker installation. The photographs must be clear, legible, and identified with the waterway marker plan's reference number.



**E.05 Category "C" Marine Sign/Aids to Navigation Installation/Maintenance.**

**PER SIGN**

- A. Install 3x4 sign (typical) \$ \_\_\_\_\_
- B. Install aid to navigation (typical) \$ \_\_\_\_\_
- C. Install 4x6 sign (typical) \$ \_\_\_\_\_
- D. Install 5x7 sign (typical) \$ \_\_\_\_\_
- E. Sign repair (replacement of cross-members/ hardware, etc.) \$ \_\_\_\_\_
- F. Sign/aid to navigation Removal \$ \_\_\_\_\_
- G. Sign cleaning \$ \_\_\_\_\_

**E.05 Category "D" Buoy and Anchor Installation/ Maintenance**

**PER BUOY**

- A. Complete Buoy system installation (contractor supplied spar buoy) \$ \_\_\_\_\_
- B. Complete buoy system installation (County supplied buoy) \$ \_\_\_\_\_
- C. Reinstallation to existing anchor (including necessary hardware/downline)  
(Contractor supplied spar buoy) \$ \_\_\_\_\_
- D. Reinstallation to existing anchor (including necessary hardware/downline) (County  
supplied buoy) \$ \_\_\_\_\_
- E. Buoy Relocation \$ \_\_\_\_\_
- F. Miscellaneous hardware replacement
  - 1. Stainless steel hardware \$ \_\_\_\_\_
  - 2. Downline \$ \_\_\_\_\_
  - 3. Embedment Anchor \$ \_\_\_\_\_
  - 4. Downline float \$ \_\_\_\_\_
- G. Installation of 18 inch blue and white mooring buoys (including all hardware,  
downline and anchor) Contractor supplied mooring buoy.  
\$ \_\_\_\_\_

**Proposer Initial \_\_\_\_\_**

H. Reinstallation of 18 inch blue and white mooring buoy to existing anchor (including necessary hardware/downline) Contractor supplied mooring buoy

\$ \_\_\_\_\_

I. Buoy cleaning (removal of bird waste and scraping of barnacles below waterline)

\$ \_\_\_\_\_

J. Inspection (visual inspection of all buoy system components; including anchor)

\$ \_\_\_\_\_

K. Removal (including anchor)

\$ \_\_\_\_\_

### **E.05 Category "E" Reef Construction**

#### **REEF CONSTRUCTION PRICING**

A. Concrete/ steel materials of opportunity,  
Limestone boulders, reef module deployment

Push Deployment \$ \_\_\_\_\_ Per Ton

Place Deployment \$ \_\_\_\_\_ Per Ton

B. Steel Barge (including all necessary preparation) \$ \_\_\_\_\_ Per Ft.

C. Vessel (including all necessary  
Preparation) \$ \_\_\_\_\_ Per Ft.

### **E.05 Category "F" Debris, Hazard and Obstruction Removal and Hurricane Clean-up Activities**

Debris, Hazard and Obstruction Removal  
and Hurricane Clean-up Activities

\$ \_\_\_\_\_ Per Ton

**Proposer Initial** \_\_\_\_\_

**E.05 Category "G" Dock, Sea Wall, and Ramp Apron Repair**

Repair of Dock, Sea Wall, Boat Ramp. **Price to include installation.**

	Per cubic yard Concrete	Per Brd. Ft. PT Lumber	Per Sq. Ft. of PT Decking	Per Sq. Ft. of "Ipe"
A. Dock	\$ _____	\$ _____	\$ _____	\$ _____
B. Sea Wall	\$ _____	\$ _____	\$ _____	\$ _____
C. Sea Wall Cap	\$ _____	\$ _____	\$ _____	\$ _____
D. Boat ramp	\$ _____	\$ _____	\$ _____	\$ _____
E. Ramp Apron	\$ _____	\$ _____	\$ _____	\$ _____
F. Hardware	\$ _____ Lump Sum			
G. Rip-Rap	\$ _____ Per Ton Placed			

**Category H Miscellaneous Marine Related Activities**

Flat labor rate for tasks using supplied materials \$ \_\_\_\_\_

**Proposer Initial \_\_\_\_\_**