

- 1) Section 01010, Paragraph 1.2.1: Delete the following sentence from this paragraph: "All unsalvageable boat slips shall be removed and disposed of under this contract".
- 2) Section 01010, Paragraph 1.2.2: Delete the following sentence from this paragraph: "Any slips that are unsalvageable shall be removed and disposed of by the contractor".
- 3) Section 01011, Paragraphs 3.5.3 and 3.5.4: Delete these paragraphs, as originally issued, and substitute therefor the following new paragraphs:

"3.5.3 Electrical Service

Under the Base Bid no new electrical work is to be performed. Under Option IA and IB a new electrical distribution system is required to provide circuits to the new slip systems provided. The existing west side marina panelboard feeder will be reconnected to the new distribution system provided.

3.5.3.1 Existing Conditions

The existing marina contains 105 ships. At the present time electric ship to shore power is available at 48 of the slips. The existing center floating pier has no electrical service outlets. An electric shed located at the Marina office building provides electric service to the Marina, including a service feeder to the west side of the Marina. West side marina outlets will remain. The feeder is routed by duct bank and manhole to an existing electric shed on the west side. Panels in the shed feed the existing outlets to remain.

3.5.3.2 Power Distribution System for Center Floating Pier & Perimeter Slips (Option IA, IB)

Power to existing slips is by way of existing panels located in shed near Marina office trailer. Service to panels is thru existing transformer "T-151" in the adjacent RV parking area. Remove existing panels and provide new to serve new utility pedestals as shown and existing west side marina panelboard feeder. Provide conduit and conductors to required location of pedestals. On access walkways of floating piers, provide flex-type connections. Connect each pedestal at 120 volt, 1 phase. Provide panelboards with main and branch breakers as required. Provide separate photo-cell switched circuit for lights in utility pedestal with manual over-ride switch.

3.5.3.3 Marina Power Pedestal:

A complete factory-assembled and prewired unit specifically constructed for marina applications shall conform to NFPA 70, Article 555 and NFPA 303. Power center shall be pedestal mounted type for ship to shore service having a separate circuit breaker for each outlet. Circuit breaker size shall be the same size as outlet to which it is connected. Power outlets shall be single, locking and grounding type. Each pedestal shall contain 2-30 ampere and 2-20 ampere, GFI protected, 120 volt, or 2-20 ampere, 120 volt outlets, GFI protected. Power center enclosure shall be polycarbonate foamed thermoplastic with UV resistant polyurethane coating. Each individual outlet and circuit breaker enclosure shall have a separate gasketed weatherproof cover. Receptacle

cover shall be weatherproof-in-use design. Entire exterior surface of power center shall be NEMA 3R nonmetallic design for exposure to saltwater environment. Provide fluorescent lighting in each new pedestal and 2 hose bibs for water service at each new pedestal location. Provide separate circuits for lights and convenience outlets.

3.5.4 Pier Lighting

Provide single photocell to control new pedestal lighting fixtures. Locate photocell and controls at the existing electric shed located at the Marina office. Circuit shall have a manual over-ride switch for testing lamps."

4) Section 01012, Paragraphs 1.11 and 1.12: Delete these paragraphs, as originally issued, and substitute therefor the following new paragraphs:

"1.11 DESIGN SUBMITTALS

1.11.1 Final (95%) Site and Shore Design with Final (95%) Boat Slip Design Submittal

Upon approval of this submittal, the Government shall provide the notice to proceed to perform construction in accordance with the options awarded. The design submittal shall contain, as a minimum, the following:

1.11.1.1. Complete construction documents plans and specifications at the level of detail needed as if the project was to be bid, including a complete list of equipment, fixtures, and materials to be used. All details shall be shown on the drawings. The Contractor shall select a boat slip manufacturer and provide examples of materials, configurations, and layout of the new boat slips. The plans shall clearly present:

1. Survey Plan
2. Demolition Plan: Clearly indicate with a legend of items to be removed, abandoned and relocated. All utilities and other items to be removed, abandoned, capped, plugged and relocated shall be indicated.
3. A site plan shall be provided including:
 - a. Existing topography, including contours with sufficient spot elevations to establish existing ground surface in high and low areas. Existing buildings, roads, streets, parking areas, storm drains, sanitary sewers, water lines, gas lines, steam lines, etc., to remain shall be shown. The base line and benchmark information shall be identified.
 - b. New docks, structures, improvements, etc. shall be shown.
 - c. New grading shall be shown with contours and spot elevations in sufficient detail to indicate the drainage pattern and earthwork quantities. Inlets shown with top of frame elevations indicated. Manholes, valves, hydrants, headwalls and all existing underground utilities are to be shown. Any other features of work which will appear on the new ground surface shall be shown. New utility lines are not shown.

d. Storm water management detention areas shall be shown if required.

4. Utilities Plan: All existing and new utilities and their sizes shall be shown, including but not limited to sanitary sewers, water lines, storm drainage, gas lines, subdrainage, and foundation drains. Each existing and new utility shall be clearly shown, including building service connections and connections to existing lines. Locations of all new and existing fire hydrants, valves, manholes, inlets, etc. shall be indicated. Sizes of existing and new lines shall be shown, including new inlet and manhole numbers. A complete legend shall be provided. All new piping, inlets, manholes, hydrants, etc., shall be located by dimension from buildings, streets, etc. All storm drain piping for stormwater management shall be indicated. Subdrain piping for paved areas shall be shown if required. Electrical and telephone lines may be shown on an electrical utility plan. All existing buildings, roads, parking areas etc. shall be shown. Contours and spot elevations shall not be shown.

a. Existing sanitary sewers and force mains, including manhole and cleanout locations Sizes of all sanitary sewers and force mains shall be indicated.

b. Existing and new water distribution and service lines, including valve and fire hydrant locations. Sizes of all service and distribution lines shall be shown.

c. Existing and new storm drainage system and roof drainage with inlets, manholes, and headwalls indicated. Sizes of storm drains shall be shown.

d. Existing steam and/or gas distribution and service lines including valves.

e. All utilities to be abandoned, relocated, or removed.

5. Layout Plan: Layout dimensions for all new features shall be shown. Base lines used to lay out the new work shall be clearly identified. The use of coordinates for locating new features is acceptable, but base line layouts are preferable. Layout data may be shown on the Utilities Plan if feasible. If the project has numerous utilities, a separate layout plan shall be prepared for clarity.

6. Erosion and Sedimentation Control Plan: Temporary erosion and sediment control measures for the construction activity shall be shown.

7. Profiles:

a. Profiles for storm drains, sanitary sewers, and force mains shall be provided for each location where utilities cross and the possibility or conflicts occur. Profiles for water lines shall be provided if there are numerous utility crossings along its alignment. Utility profiles shall show:

Existing and finished grade.

Manholes, inlets, headwalls, etc., with numeric designations corresponding to those shown on utility plan.

Top and invert elevations.
Size, length, and slopes of all lines.
All existing and new utility crossings.
Type of structures (i.e., type "E" inlet, standard manhole, etc.) required at each junction.

b. Profiles for boat ramp, roads, streets, etc., shall show:

Existing and finished grade, with all vertical alignment geometric data shown.

All new and existing utility crossings.

c. All profiles shall be drawn on compatible scales: 1:400 horizontal corresponding to 1:40 vertical. The vertical scale may vary where profiles transverse very steep topography.

8. Details: Standard details for storm drainage, water, sanitary sewer, and miscellaneous site features shall be provided in compliance with the Base Civil Engineer's criteria, such as Installation Design Guides or, if none are available, the respective State highway and drainage standard details. Special details shall be prepared as required for special site features, such as fencing or benches.

1.11.1.2 Site Development

Design Analysis: A narrative description of siting requirements and design rationale for roads, streets, parking facilities, earthwork, utilities, and other related site aspects shall be provided. All references and guidance used to develop the project shall be indicated, such as data from Using Agency and Corps of Engineers technical manuals The design analysis shall address the following:

1. Storm Drainage: The design of all new storm drainage and an analysis of the existing storm drainage to which the new will be connected, if applicable, shall be presented.

2. Water Service: A description of existing and proposed water service for the proposed facility shall be provided. Adequacy of the existing system and additions required for adequate fire protection shall be included. Any permit requirements shall be explained. Proposed work shall be in accordance with TM 5-812-1, TM 5-813-5, and TM 5-813-6. References shall be cited, and calculations are shown.

3. Erosion and Sedimentation Control and Stormwater Management: A description of erosion and sediment control and storm water management requirements, design, and design rationale shall be provided. Any permit requirements shall be explained.

4. Anticipated permit requirements for water and wastewater features shall be described.

1.11.1.3 Geotechnical

A geotechnical report and design analysis has been performed by the government and is attached to the end of Section 01050 "Job Conditions".

1.11.1.4 Landscape, Planting and Turfing

The landscape planting design narrative shall describe the analysis of existing site conditions, including an indication of existing plant materials that are to remain on the site. The statement of concept shall indicate specific site problems related to proposed development and the rationale for proposed plant locations. The narrative shall also include a list of suggested types and sizes of plant materials which are to be used, based upon the designated functional and visual criteria. All landscaping improvements shall be in accordance with Bolling AFB standards. The drawings shall be prepared in scale with the site layout and grading plans, and shall include reference coordinates, north arrows, graphic scales and appropriate legends. An overall planting layout shall be developed and enlarged detail plans of specific areas shall be provided as needed to clarify requirements. The proposed layout shall indicate shade trees, evergreen trees, flowering trees, shrub masses, etc. according to designated functional and visual criteria. A legend including sizes of plants recommended for each of the above categories shall be provided. The drawings and all subsequent plans shall indicate existing and proposed buildings, paved areas, signs, lights, transformers, dumpster areas, storm drainage system, and other structures and utilities.

1.11.1.5 Structural Design

All references used in the design shall be listed, including Government design documents and industry standards. The live loads to be used for design shall be stated, including wind loads, lateral earth pressure loads, surcharge loads, ground water level and loads, seismic loads, etc. as applicable. The method of providing lateral stability for the structural system to meet seismic and wind load requirements shall be described. Sufficient calculations to verify the adequacy of the method shall be provided. Calculations, including computer analyses, shall be furnished for all principal members. Computer software used shall be widely accepted, commercially available programs. Sufficient documentation shall be provided to interpret input and output. Drawings showing dock and bulkhead layout, including all principal members, shall be provided as applicable. Typical sections shall be furnished. Completed checked calculations shall be furnished for all structural members. Structural drawings shall be coordinated with all other design disciplines. The structural drawings shall contain the following information in the general notes:

1. The allowable soil bearing value, lateral earth pressures, ground water and river water levels, soil coefficients, and surcharge loads.

2. The design stresses of structural materials used.

3. The design live loads used in the design of various portions of the structures.

4. The design wind speed.

5. The seismic site classification "Sss, "S1", and "R" values used in design.

The final structural drawings shall be signed and sealed by a Professional Engineer and include all plans, sections, details, and notes to clearly describe the work.

1.11.1.6 Plumbing

All references used in the design shall be listed, including Government design documents and industry standards. Justification and brief description of the types of plumbing fixtures, piping materials and equipment proposed for use shall be provided. Detailed calculations for systems shall be provided, such as sizing calculations for waste and water piping, water heaters, and pumps. Locations and general arrangement of plumbing fixtures and major equipment shall be indicated. Plans and isometric riser diagrams of, cold water, piping shall be provided for all areas. Equipment and fixture schedules shall be provided, including descriptions, capacities, locations, connection sizes, and other information as required.

1.11.1.7 Exterior Electrical Distribution System

All references used in the design including Government design documents and industry standards shall be listed. The electrical distribution system shall be described, including the changes to be made to the existing system to accommodate this project. Any deficiencies to be corrected shall be stated and all new work being performed shall be described. The electrical characteristics of the power supply from the service point to the main service equipment shall be indicated.

The type, number, voltage rating and connections, and kVA rating of transformers shall be provided. The type of conductor to be used and a justification for its use shall be provided. The criteria used for the exterior design, such as primary and secondary voltage drop, shall be provided. The physical characteristics of both the underground and overhead power lines shall be described. The short circuit current available at the site shall be provided, including the source of this value. All exterior lighting systems shall be described. The fixture types, poles, and design lighting levels shall be indicated. Point-to-point calculations showing that all design levels have been achieved shall be provided. Energy conservation measures and/or techniques being incorporated into the design shall be described. Exterior electrical design drawings shall indicate all poles (power and lighting), conductors (overhead and underground), and manholes. Pertinent components shall be detailed, including, but not limited to, poles, manholes, duct banks, etc. Calculations support all manhole locations shall be provided. All removals shall be shown on demolition plans. A coordination study with appropriate curves shall be provided to show that ALL protective devices have been fully coordinated. Completed short circuit calculations for the entire electrical system shall be provided. All equipment shall be identified by manufacturer's name and catalog number. Complete voltage drop and lighting calculations shall be provided. The voltage drop calculations shall use the same single line diagram as the short circuit calculations, and shall show drops at the same locations as short circuit currents are shown. Lighting calculations using the point-to-point method shall be provided for all

exterior locations requiring illumination. The calculations and coordination study shall be sealed by a registered engineer. All details shall be completed. The drawings shall be thoroughly checked to ensure that the proper electrical connections are provided for equipment and there are no conflicts between the location of electrical equipment and equipment of other disciplines.

1.11.1.8. Erosion and Sedimentation Control, Storm Water Management, and National Pollutant Discharge Elimination System (NPDES) Permit:

1. Erosion and Sedimentation Control Plans and Stormwater Management Plans shall be prepared in accordance with the criteria of the governing agency at the project site. In the early stages of design, the Designer of Record shall contact the local authorities for their particular requirements for each item. Erosion and sedimentation control and stormwater management shall be incorporated in all projects where required. If not required, a waiver shall be obtained from the Government agency having jurisdiction.

2. The Designer of Record shall submit the erosion and sedimentation control and stormwater management documentation to the District of Columbia Department of Health for review.

3. The Designer of Record shall make all submissions for review in a timely manner. Each submission shall be scheduled to allow the reviewing authority to make comments and request resubmission.

4. The Designer of Record shall include all erosion and sedimentation control notes, directions, details, etc., on the design drawings.

5. NPDES permit information shall be prepared in accordance with Section 01000, ADMINISTRATIVE REQUIREMENTS.

1.11.1.8 Permits for Water Supply and Sanitary Sewage

The Designer of Record shall contact the Base Civil Engineer to verify the correct procedure to follow to obtain construction permits. The Designer of Record shall prepare and submit all permit applications including submissions to Department of Consumer and Regulatory Affairs or other appropriate agencies if required.

1.11.1.9 Boat Slip Design

The boat slip plan shall contain details of the boat slip system including all accessories, materials, and utility pedestals. The boat slip plan shall contain, as a minimum complete details required for the construction of the boat slip system, including bridges, docks, fingers, electrical distribution system, water distribution system, pipe anchors, deck materials and bumper materials, complete installation instructions shall be provided and details on utility connections to existing supply lines shall be provided.

1.11.1.10 Landscape, Planting and Turfing

Final drawing(s) shall include a complete schedule of plant materials indicating botanical and common names, plan symbols, quantities, sizes, condition

furnished, and pertinent remarks. Drawings shall correspond with the site layout and grading plans, and shall include reference coordinates, north arrows, graphic scales and appropriate legends. An overall planting layout shall be developed including enlarged detail plans of specific areas as needed to clarify requirements. Final drawings shall indicate proposed plants by a (+) mark for the plant location and a circle scaled to approximately 2/3 the ultimate growth spread (diameter) of plants. Final drawings shall also include the basic details for installation of tree, shrub, and ground cover planting, as well as any other applicable details for clarification of specific project requirements.

1.11.1.12. Specifications. The specifications shall be coordinated with the drawings, and shall describe in detail all items shown on the drawings. Unified Facilities Guide Specifications (UFGS) shall be used where available. USGS can be found in the US Army Corps of Engineers TECHINFO web site at <http://www.hnd.usace.army.mil> or at <http://www.ccb.org/ufgs/ufgstoc.htm>. The guide specifications shall be prepared using the SPECSINTACT software that can also be accessed from the same web page.

1.11.1.13 Distribution and Copies of the 95% Design: The Contractor shall provide 10 full sets of all documents that have been prepared above. Upon approval of this submittal, the Government shall authorize the notice to proceed with the boat slip construction. (If those options are awarded)

1.11.1.14 Distribution and Copies of the Final Design: After the review, the Contractor shall revise the Contract Documents by incorporating any comments generated during the review and shall prepare final documents. The Contractor shall submit the following documents for the design complete submittal (electronic files on CD-ROM):

Design analysis in final 100% complete form - 10 hardcopies and two copies in PDF format

100% complete drawings - 10 complete full size sets of drawings.

Final specifications - 10 paper sets and two copies in Microsoft Word.

Annotated 95% review comments - 10 paper copies.

CADD files of all drawings in AUTOCADD Release 2000 format - 2 disks.

CALS Files of 100% complete drawings - two disks.

The Contractor shall submit the Design Complete Submittal not later than 14 calendar days after the Government returns the annotated Final Design Review Submittal.

1.12 DD FORM 1354

The Contractor shall complete DD Form 1354 and submit the completed form to the Government 90 days before the contract completion date. As a minimum, the following items in units of measure to be designated by the Government shall be listed on the form:

Item

Transformer, each type and size
Transfer switch, each type and size
Ductbank, each size and type of service
Manholes and handholes, electrical and communication
Electrical aerial distribution, each size and type of service
Electrical service to each type of exterior lighting fixtures
Water and sewer, each size, type of service and type of line
Manholes, each size
Valves, each type and size
Chilled water supply and return, each size and type of line
Storm drain lines, each size and type of line
Asphalt parking area
Fencing, each type and height
Gate, each type and method of operation
Boat Ramp Area
Landscape planting area
Sod/Seeding"

DRAWINGS:

- 5) Sheet RFP-2, Non-Dredging Notes, Note # 13: Delete this note.
- 6) Sheet RFP-2: In the upper right hand corner of this drawing between the GAS PUMPS and the UGRD GAS TANKS PAD add the following note: "GAS SUPPLY LINE UNDERNEATH AND PARALLEL (NORTH/SOUTH) TO THE SIDEWALK IN THE NE CORNER OF THE MARINA CLOSEST TO THE BULKHEAD."