

Attachment B – Specifications

RFx #3000025763

Title: Deck Barge for LDWF

Specifications for Push Barge

Note to Bidders:

- Barge must be delivered in full to Cypremort Point/Quintana Boat Launch
- 10-week build and delivery time upon notification of award.
- Delivery contact information will be provided to the awarded vendor.

General Construction:

- Must use 5056 Grade aluminum or better
- Overall size will be 12'W x 30'L x 3'H
- Hull top, sides, rake with front plate, & transom plate and structural components will be a minimum of 1/4" thickness; hull bottom plate must be a minimum of 3/16" thickness
- Deck plate will have six 10" Weld-on, Tie-down Cleats: two Forward corners, two Midship, two Aft corners
- Will have two watertight hatches on top deck; one port, forward; one starboard, aft
- Will have one raked end, forward; one square end, aft

Specify Aluminum Grade: _____

Specify Overall Size Bidding: _____

Specify Hull Top, Sides, Rake with Front Plate & Transom Plate, and Structural Components Thickness Bidding: _____

Specify Hull Bottom Plate Thickness Bidding: _____

Specify No. of Weld-on, Tie-down Cleats on Deck Plate Bidding: _____

Specify Cleat Locations Bidding (qty at each location):

Forward Corners: _____ Midship: _____ Aft Corners: _____

Specify Total No. of Watertight Hatches on Top Deck Bidding: _____

Specify No. of Hatch Locations Bidding (port/starboard; forward/aft):

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Port, forward: _____ Starboard, Aft: _____

Specify No. of Raked, Forward Ends Bidding: _____

Specify No. of Square Ends, Aft Bidding: _____

Hull Specifications:

- Main structure will consist of three Longitudinal Girders from bow to stern, evenly spaced 3' apart, center to center
 - There will be 1 Main Center Girder, 1 Main Starboard Girder, and 1 Main Port Girder
- There will be Five Main Cross Ribs (FR1-FR5) spanning from Port to Starboard, evenly spaced 6' apart center to center (FR5 will be part of the transom)
 - FR3 will be a Watertight Bulkhead
 - Watertight bulkheads will be welded solid on both forward and aft sides, as well as top and bottom
 - There will be four drains in total: two port sides and two starboard sides, one forward and one aft of the watertight bulkhead
 - Drains will be a 1" threaded aluminum collar welded inside and out, located on both port and starboard sides of the hull, two drains per void
 - Girders and ribs will have oval cutouts for through access for proper visual maintenance and rigging (excluding FR3)
- Girders and ribs will consist of 1/4" aluminum plate spanning from the hull bottom vertically to hull top deck plate
- Girders and ribs will be slotted at intersecting points and will be welded on all sides of the intersecting points
- Top portion of both girders and ribs will be bent as a 2"x3" C-channel and welded to the top deck plate
- Three 2"x3"x1/4" square tubing running horizontally from bow to stern, "stitch-welded" to the top side of each girder; will be flush with main girders and ribs
- Bottom plate will consist of Two 6'x30'x3/16" plate and 2"x2"x1/4" T-bar

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- T-bar will run bow to stern and be "stitch welded" to hull bottom plate on a 12" spacing between each longitudinal girder
 - Girders and ribs will be "stitched welded" to the hull bottom plate with 3" welds and spacing of 6"
- Port and Starboard side plate will each consist of one 3'x30'x1/4" plate and 2"x4"x1/4" C-Channel
 - C-Channel will be welded to the exterior horizontally, bow to stern, 12" from the centerline of the plate
- Top deck plate will consist of two 6'x30'x1/4" Aluminum plates and 2"x2"x1/4" T-bar "stitch-welded" on the bottom side of the plate running bow to stern on 12" centers
 - T-bar will be notched where it intersects a girder or rib
 - Deck plate will be one fully welded seam
- Raked end will have a minimum of 12" front plate
- Transom Plate will consist of one 3'x12'x1/4" Aluminum Plate and two 2"x6"x1/4" Aluminum C-Channel welded to the exterior of the plate
 - C-Channel will run horizontally, Port to Starboard, and will be evenly spaced 12" apart from the center of the plate

Specify No. of Longitudinal Girders (bow to stern) Bidding: _____

Specify Longitudinal Girder Spacing (center-to-center) Bidding: _____

Specify Longitudinal Girder Identification/Locations Bidding (Center / Port / Starboard):

Specify No. of Main Cross Ribs (FR1–FR5) Spanning Port to Starboard Bidding:

Specify Cross Rib Spacing (center-to-center) Bidding: _____

Specify Whether FR5 is Part of the Transom Bidding: _____

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Specify Which Frame is the Watertight Bulkhead Bidding: _____

Specify Total No. of Drains Bidding: _____

Specify No. of Drains on Port Side Bidding: _____

Specify No. of Drains on Starboard Side Bidding: _____

Specify Drain Placement Relative to Watertight Bulkhead Bidding (forward/aft):

Specify Drain Type/Size Bidding (1" threaded aluminum collar): _____

Specify Whether Drain Collars are Welded Inside and Out Bidding: _____

Specify No. of Drains per Void Bidding: _____

Specify Drain Locations on Hull (port/starboard; forward/aft; describe):

Specify Whether Girders and Ribs Include Oval Cutouts for Through Access Bidding (excluding FR3 if applicable): _____

Specify Girder Plate Thickness Bidding: _____

Specify Rib Plate Thickness Bidding: _____

Specify Extent/Span of Girders and Ribs Bidding (from hull bottom to hull top deck plate):

Specify Whether Girders and Ribs are Slotted at Intersecting Points Bidding:

Specify Weld Detail at Intersecting Points Bidding (welded on all sides; weld type/extent):

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Specify Top Portion Configuration of Girders and Ribs Bidding (2" x 3" C-channel; describe bend/orientation): _____

Specify Attachment to Top Deck Plate Bidding (weld type/extent): _____

Specify No. of 2" x 3" x 1/4" Square Tubes Bidding: _____

Specify Square Tube Orientation Bidding (bow to stern; describe): _____

Specify Square Tube Weld Pattern Bidding ("stitch-welded" details, spacing/length):

Specify Whether Square Tubes are Flush with Main Girders and Ribs Bidding (describe):

Specify Bottom Plate Qty/Dimensions/Thickness Bidding (e.g., two 6' x 30' x 3/16" plates):

Specify T-Bar Size Bidding (e.g., 2" x 2" x 1/4"): _____

Specify T-Bar Orientation Bidding (bow to stern): _____

Specify T-Bar Stitch-Weld Spacing Bidding (e.g., 12"): _____

Specify T-Bar Placement Bidding (between each longitudinal girder; describe):

Specify Girder/Rib Stitch-Weld Detail to Hull Bottom Plate Bidding (e.g., 3" welds with 6" spacing; specify): _____

Specify Port Side Plate Qty/Dimensions/Thickness Bidding (e.g., one 3' x 30' x 1/4"): _____

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Specify Starboard Side Plate Qty/Dimensions/Thickness Bidding (e.g., one 3' x 30' x 1/4"):

Specify Side C-Channel Size Bidding (e.g., 2" x 4" x 1/4"): _____

Specify Side C-Channel Orientation Bidding (horizontal bow to stern): _____

Specify Side C-Channel Location Bidding (distance from centerline of plate, e.g., 12"):

Specify Side C-Channel Attachment/Weld Detail Bidding (exterior; weld type/extent):

Specify Top Deck Plate Qty/Dimensions/Thickness Bidding (e.g., two 6' x 30' x 1/4" plates):

Specify Deck T-Bar Size Bidding (e.g., 2" x 2" x 1/4"): _____

Specify Deck T-Bar Orientation Bidding (bow to stern): _____

Specify Deck T-Bar Spacing (on-center) Bidding (e.g., 12" centers): _____

Specify whether the Deck T-Bar is Stitch-Welded to the Bottom Side of the Deck Plate Bidding (describe stitch pattern): _____

Specify whether the Deck T-Bar is Notched at Girder/Rib Intersections Bidding (describe):

Specify Deck Plate Seam Weld Description Bidding (one fully welded seam; location/extent):

Specify Raked End Front Plate Dimension Bidding (minimum 12" required; vendor specify):

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Specify Transom Plate Qty/Dimensions/Thickness Bidding (e.g., one 3' x 12' x 1/4" plate):

Specify Transom C-Channel Qty Bidding (e.g., two): _____

Specify Transom C-Channel Size Bidding (e.g., 2" x 6" x 1/4"): _____

Specify Transom C-Channel Orientation Bidding (horizontal Port to Starboard): _____

Specify Transom C-Channel Spacing Bidding (e.g., 12" apart from center of plate; specify):

Specify Transom C-Channel Attachment/Weld Detail Bidding (exterior; weld type/extent):

Specify Delivery Days ARO Bidding: _____