

WESTWIND SUBDIVISION:

A and B Dock

July 26, 2017

Design Specifications

All Structural Steel to be ASTM-A36 or ASTM-B500.

All Frames and Components shall be hot dip galvanized after fabrication and designed in accordance with ASCE Report 50, "Small Craft Harbors" current edition.

Applicable Design Standards:

- American Institute of Steel Construction – Steel Manual
- American Welding Society
- American Iron and Steel Institute – Light Gauge Steel Design Manual
- American Society of Civil Engineers – Manual 50 – Small Craft Harbors
- American Society of Testing Materials
- Structural Steel Conforms to ASTM A-36
- Galvanized Conforms to ASTM A-123

12 in. Deep Box Truss Framework:

- 3 in. x 3 in. x ¼ in. bolt-up angle connection point with clearance holes for 5/8 in diameter bolts.
- 2 in. x 2 in. x 3/16 in. angle iron, top and bottom main rails.
- 2 in. x 2 in. x 3/16 in. angle iron, center rails.
- 1.5 in. x 1.5 in. x 3/16 in. angle iron, diagonals.
- 1.5 in. x 1.5 in. x 3/16 in. angle iron, transverse support/sub-assemblies.
- 1 in. x 1 in. x 1/8 in. angle iron, side diagonals.
- 5/8 in. diameter solid round stock, deck support/sucker rods.

Roof Structure:

- ½ inch diameter bolts used in the roof superstructure connections.
- 8 in. by 14-gauge galvanized Z purlins.
- Signature 200 series enamel: 26 gauge "PBR" roof panels and trim.

Flotation:

- Rotationally molded, polyethylene encased flotation - .150 nominal wall thickness.
- 24 in. +/- Freeboard height.

Concrete Decking:

- 1.5 in. Thick, Hydraulically Pressed, Rock Face Concrete Deck Pavers.
- Slate Finish.
- Compressive Strength: 10,000 PSI+
- Wire mesh reinforced.

Composite Decking:

- 1 in. by 6 in. Timber Tech composite decking or equivalent.

Design Loads:

- Flotation Live Load: 25-30 PSF
- Horizontal Wind Load: 17.8 PSF

Warranties:

- Browns Bridge Dock Mfg. Co. 5 year materials and workmanship warranty.
- Rotationally Molded Flotation: 15-year manufacturer's warranty.
- PBR Roof Panel Paint: 25-year manufacturer's warranty.
- Composite Decking. 25-year manufacturer's warranty.

Engineering:

- Plans will be reviewed and sealed by a professional engineer.

WESTWIND SUBDIVISION:

A Dock: (22) Boat Capacity

July 26, 2017

Dock Description:

SCOPE: Browns Bridge will manufacture, assemble, deliver and install the following floating dock system:

Overall Dimensions: 64 ft. wide by 164 ft. long.

Slip Count: (10) 24 ft. wide by 28 ft. long Back-to-Back Style covered slips: **Slip divided into (20) 12 ft. wide by 28 ft. long slips.**
(2) 12 ft. wide by 28 ft. long Back-to-Back Style covered slips.

Main Walk: (1) 8 ft. wide by 164 ft. long.

Fingers: (12) 4 ft. wide by 28 ft. long.
(2) 8 ft. wide by 28 ft. long.

Slip Dividers: (10) 6 in. wide by 28 ft. long treated lumber slip dividers.
• Treated lumber cap board.

Connecting Walkway: (1) 8 ft. wide by 60 ft. long.
(1) 8 ft. wide by 56 ft. long.

Piano Hinge: (2) 8 ft. wide heavy-duty piano hinges.

5th-Wheel: (1) 8 ft. wide heavy-duty double hinge 5th-wheel.

Bridge: (1) 6 ft. wide by 60 ft. long square tube bridge (2" x 2" x 3/16" minimum).
(1) 5th-wheel dock-side connection.
(1) Heavy-duty rollers and piano hinging tread-plate shore-side.

Dock Decking: 1.5 in Thick, hydraulically pressed concrete pavers: **Matte Finish.**

Flotation: Rotationally Molded: Polyethylene encased flotation attached directly to the framework:
• 25-30 PSF flotation live load.
• 22-24 in. freeboard +/-.

Roof: Offset Peak Roof Design: **1:12 slope.**
• Overall Roof Dimensions 68 ft. slips: 68 ft. wide by 165 ft.-3 in. long with a 24-in. eave overhang.
• Eave clearance: **14 ft.**
• 26 gauge PBR roof panels and trim: **Galvalume.**
• 2.5 in. by 11-gauge (1/8 in. thick) roof columns: **Stub Mounted.**
• 8 in. x 14-gauge galvanized Zee purlins.

Roof Bracing:
• (60) 2 in. by 3/16 in. angle iron diagonal braces: **(6) per slip divider.**

Anchoring:
• (8) 4 ft. winch and cable anchor corners: **Composite Decked.**
• (8) K&R #11 winches.
• (2000) Linear ft. of 5/8 in. diameter stainless steel cable: **250 ft. per winch.**
• (8) 4800# big hook concrete dead-man anchor: **(1) per cable.**

Underwater Brace:
• (22) Heavy-duty "Wing-Style" underwater braces: **(1) row per 12 ft. slip (which includes attachment to the slip divider): 5 ft. boat clearance.**

WESTWIND SUBDIVISION:

Single Band Board:

- (1352) Linear ft. of single 1 in. x 6 in. Treated lumber band board: **Full perimeter (except slip dividers).**

Bumper:

- (1832) Linear ft. of horizontal vinyl bumper: **Attached with stainless steel screws and finish washers around the perimeter of the dock, including the slip dividers: Black.**
- (112) 3 ft. vertical column bumpers: **Black.**

Cleats:

- (100) 10 in. galvanized deck cleats.

Concrete Bulkhead:

- (1) 8 ft. wide by 8 ft. long, rebar grid reinforced, concrete bulk head.

Security Gate:

- (1) Galvanized square tube design with 4 ft. wings.
- (1) Weather proof lever/knob with punch code entry.

WESTWIND SUBDIVISION:

B Dock: (20) Boat Capacity

July 26, 2017

Dock Description:

SCOPE: Browns Bridge will manufacture, assemble, deliver and install the following floating dock system:

Overall Dimensions: 64 ft. wide by 148 ft. long.

Slip Count: (10) 24 ft. wide by 28 ft. long Back-to-Back Style covered slips: **Slip divided into (20) 12 ft. wide by 28 ft. long slips.**

Main Walk: (1) 8 ft. wide by 148 ft. long.

Fingers: (10) 4 ft. wide by 28 ft. long.
(2) 8 ft. wide by 28 ft. long.

Slip Dividers: (10) 6 in. wide by 28 ft. long treated lumber slip dividers.
• Treated lumber cap board.

Dock Decking: 1.5 in Thick, hydraulically pressed concrete pavers: **Matte Finish.**

Flotation: Rotationally Molded: Polyethylene encased flotation attached directly to the framework:
• 25-30 PSF flotation live load.
• 22-24 in. freeboard +/-.

Roof: Offset Peak Roof Design: **1:12 slope.**
• Overall Roof Dimensions 68 ft. slips: 68 ft. wide by 150 ft.-3 in. long with a 24-in. eave overhang.
• Eave clearance: **14 ft.**
• 26 gauge PBR roof panels and trim: **Galvalume.**
• 2.5 in. by 11-gauge (1/8 in. thick) roof columns: **Stub Mounted.**
• 8 in. x 14-gauge galvanized Zee purlins.

Roof Bracing:
• (60) 2 in. by 3/16 in. angle iron diagonal braces: **(6) per slip divider.**

Anchoring:
• (6) 4 ft. winch and cable anchor corners: **Composite Decked.**
• (6) K&R #11 winches.
• (1500) Linear ft. of 5/8 in. diameter stainless steel cable: **250 ft. per winch.**
• (6) 4800# big hook concrete dead-man anchor: **(1) per cable.**

Underwater Brace:
• (20) Heavy-duty "Wing-Style" underwater braces: **(1) row per 12 ft. slip (which includes attachment to the slip divider): 5 ft. boat clearance.**

Single Band Board:
• (984) Linear ft. of single 1 in. x 6 in. treated lumber band board: **Full perimeter (except slip dividers).**

Bumper:
• (1464) Linear ft. of horizontal vinyl bumper: **Attached with stainless steel screws and finish washers around the perimeter of the dock, including the slip dividers: Black.**
• (96) 3 ft. vertical column bumpers: **Black.**

Cleats:
• (88) 10 in. galvanized deck cleats.