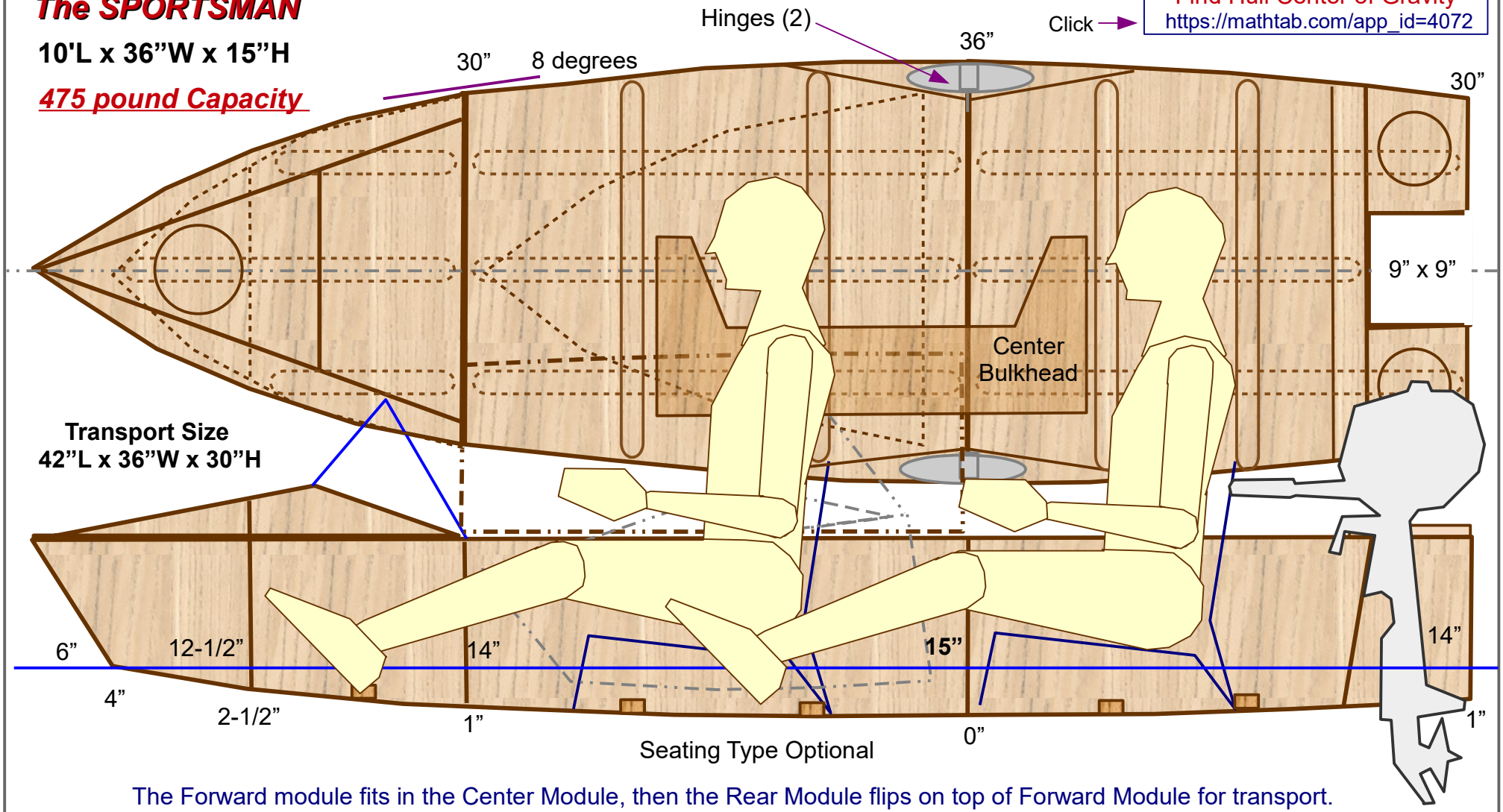
Print in Landscape Mode with ¼ inch borders.

The SPORTSMAN

10'L x 36"W x 15"H

475 pound Capacity

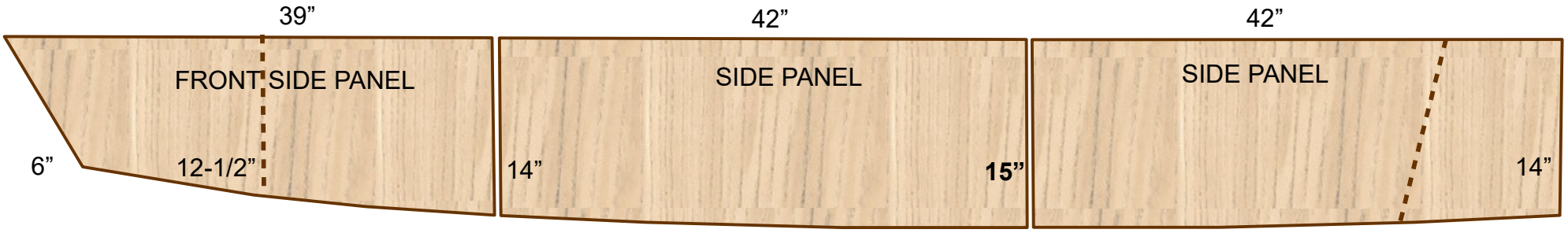
Find Hull Center of Gravity
Click → https://mathtab.com/app_id=4072

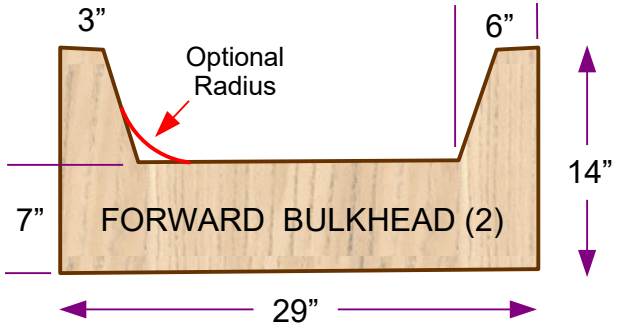


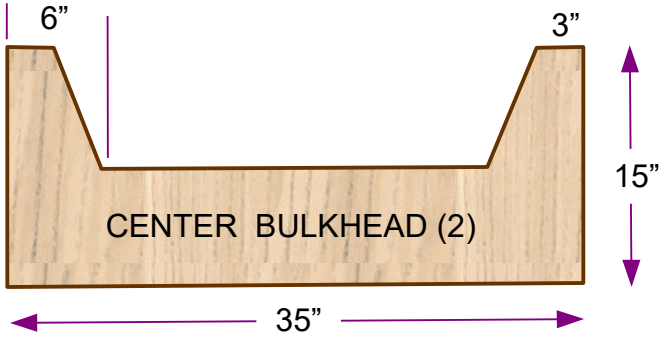
The Forward module fits in the Center Module, then the Rear Module flips on top of Forward Module for transport.
Note: Reduce the hull height a couple of inches, for those that have transport opening size restrictions.
The Center and Rear Modules are the same size and shape, except for the motor opening.

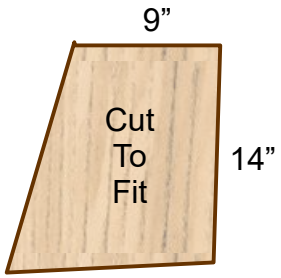
The SPORTSMAN

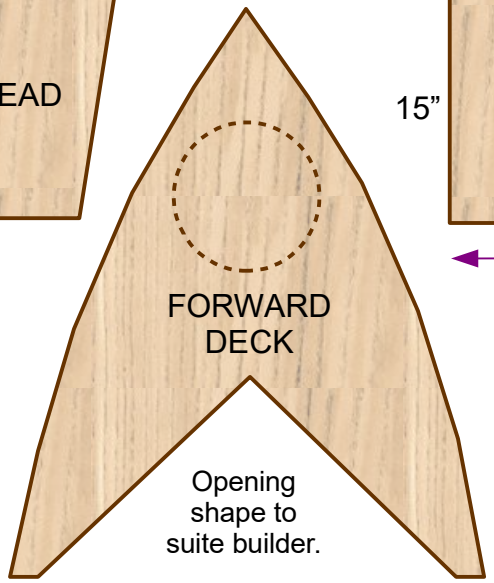
PANEL DIMENSIONS

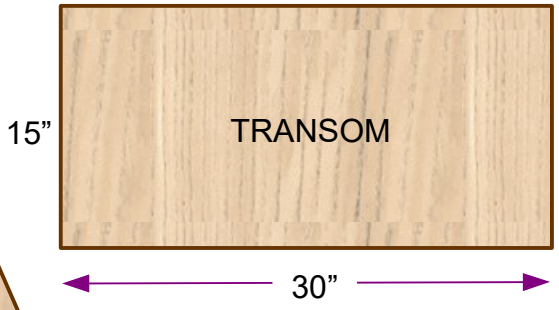


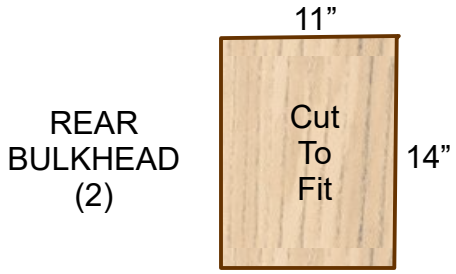


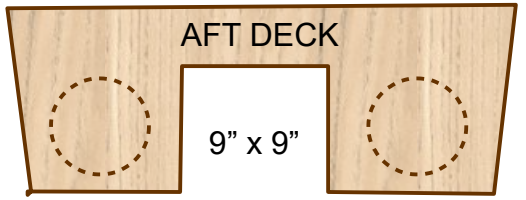






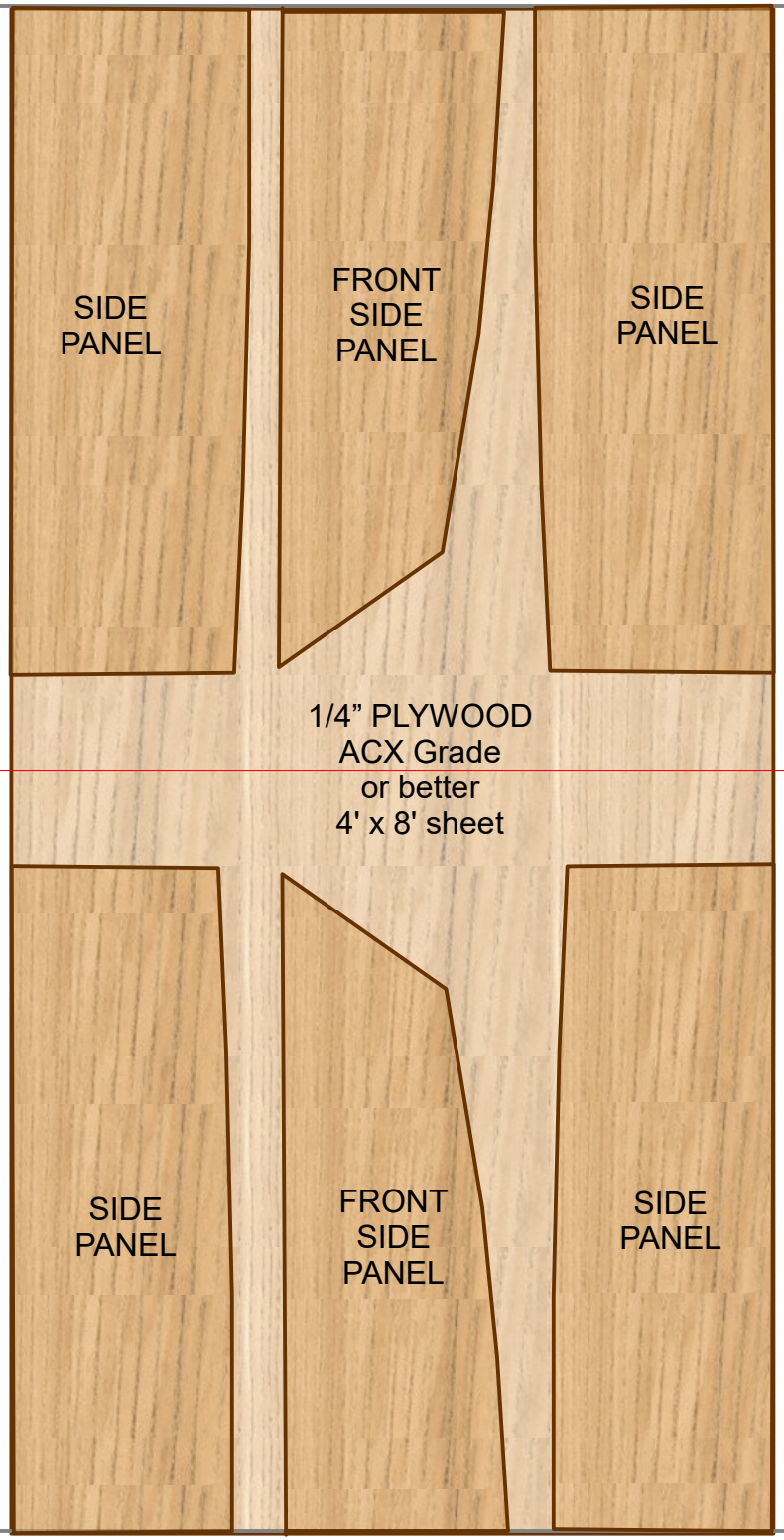


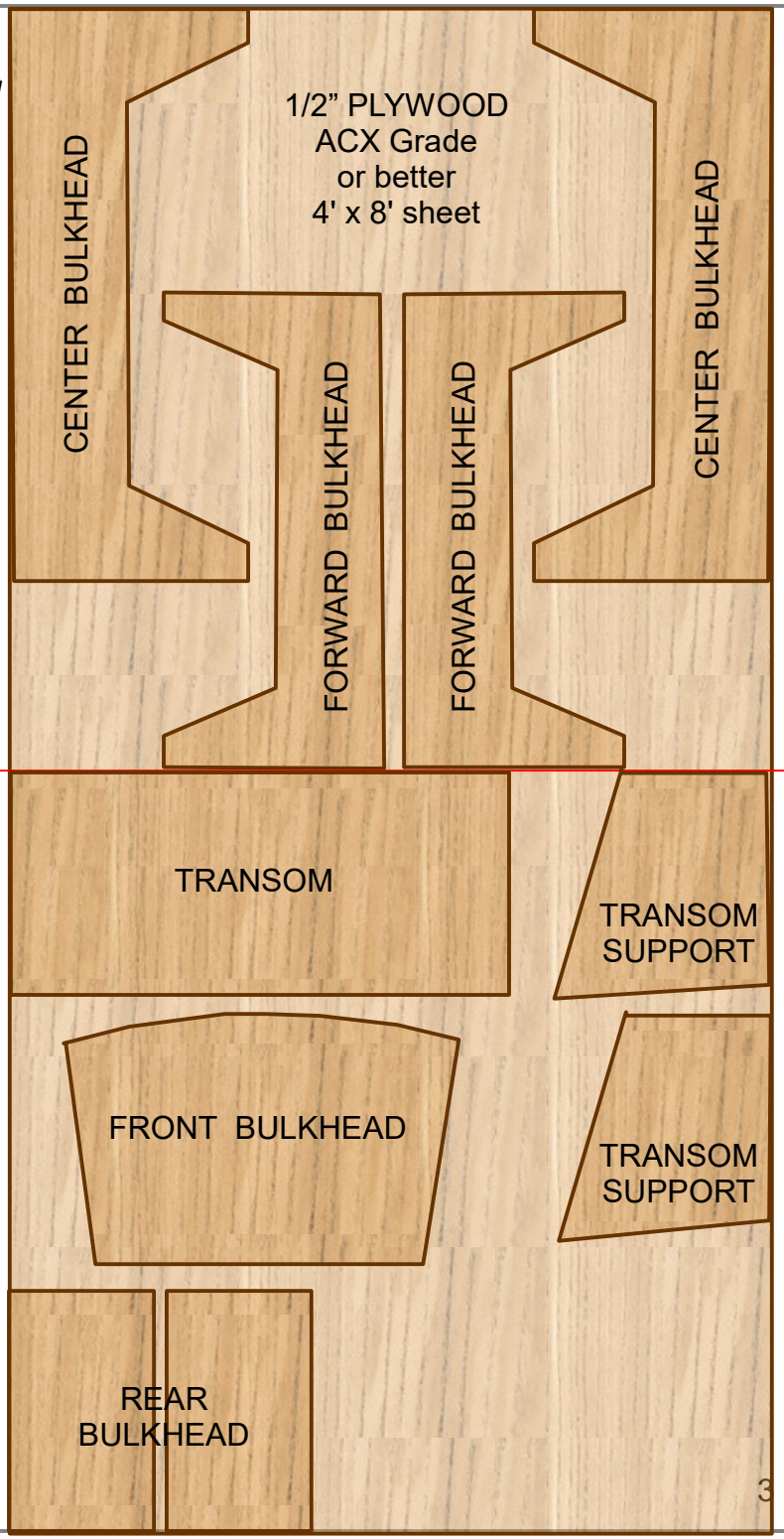




The SPORTSMAN

There will be an additional 1 sheet of 1/4” ply for the base panels, and a 1/2 sheet of 1/4” ply for the decks.



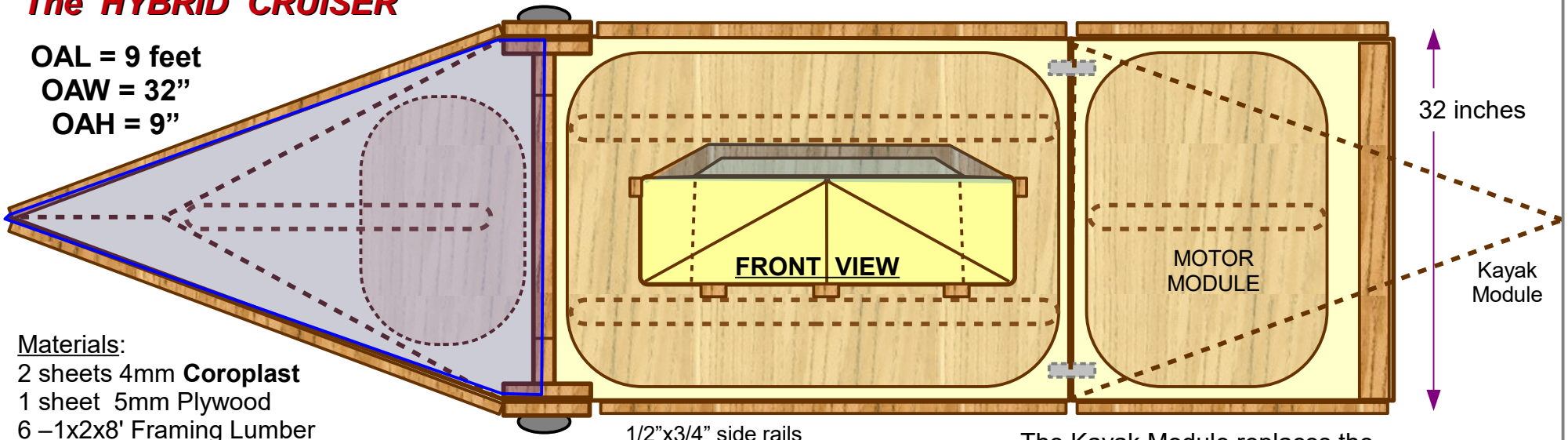


The hull can be lengthened by extending the side panels to a full 48”. This makes the boat 11-1/2 feet long, and increases the capacity to over 600 pounds.

[Portable Boat Plans.com]

The HYBRID CRUISER

OAL = 9 feet
OAW = 32”
OAH = 9”



1/2”x3/4” side rails

Materials:
2 sheets 4mm **Coroplast**
1 sheet 5mm Plywood
6 –1x2x8' Framing Lumber
1 Roll No-Residue Tough-Tape
Assorted Screws & Bolts
All for about $100

The Kayak Module replaces the Motor Module for easy paddling.

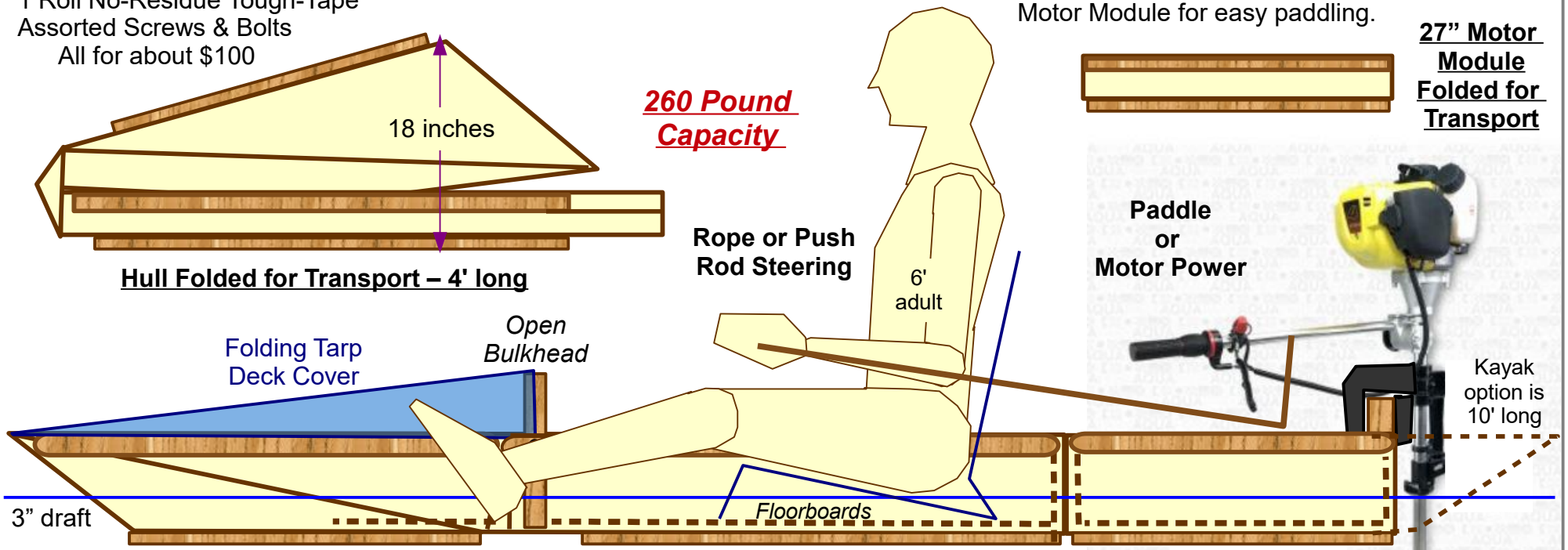
27” Motor Module Folded for Transport

Hull Folded for Transport – 4' long

260 Pound Capacity

Rope or Push Rod Steering

Paddle or Motor Power



1/2”x3/4” Skids

27 inch module

The low profile hull is a function of increased hull width, for lateral stability.. It also adds length to the hull, for greater load capacity.

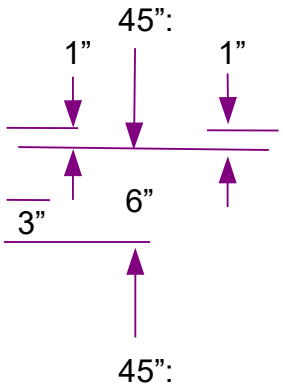
The beauty of the design is in it's relative simplicity. Lightweight yet robust materials. Foldable to fit in any vehicle. And, about one hundred dollars to fabricate. Want more ? It's a Motor Power Cruiser, or a Paddle Kayak ! Convinced ?

The HYBRID CRUISER

4 MM thick 4'x8' sheet Coroplast, any color.

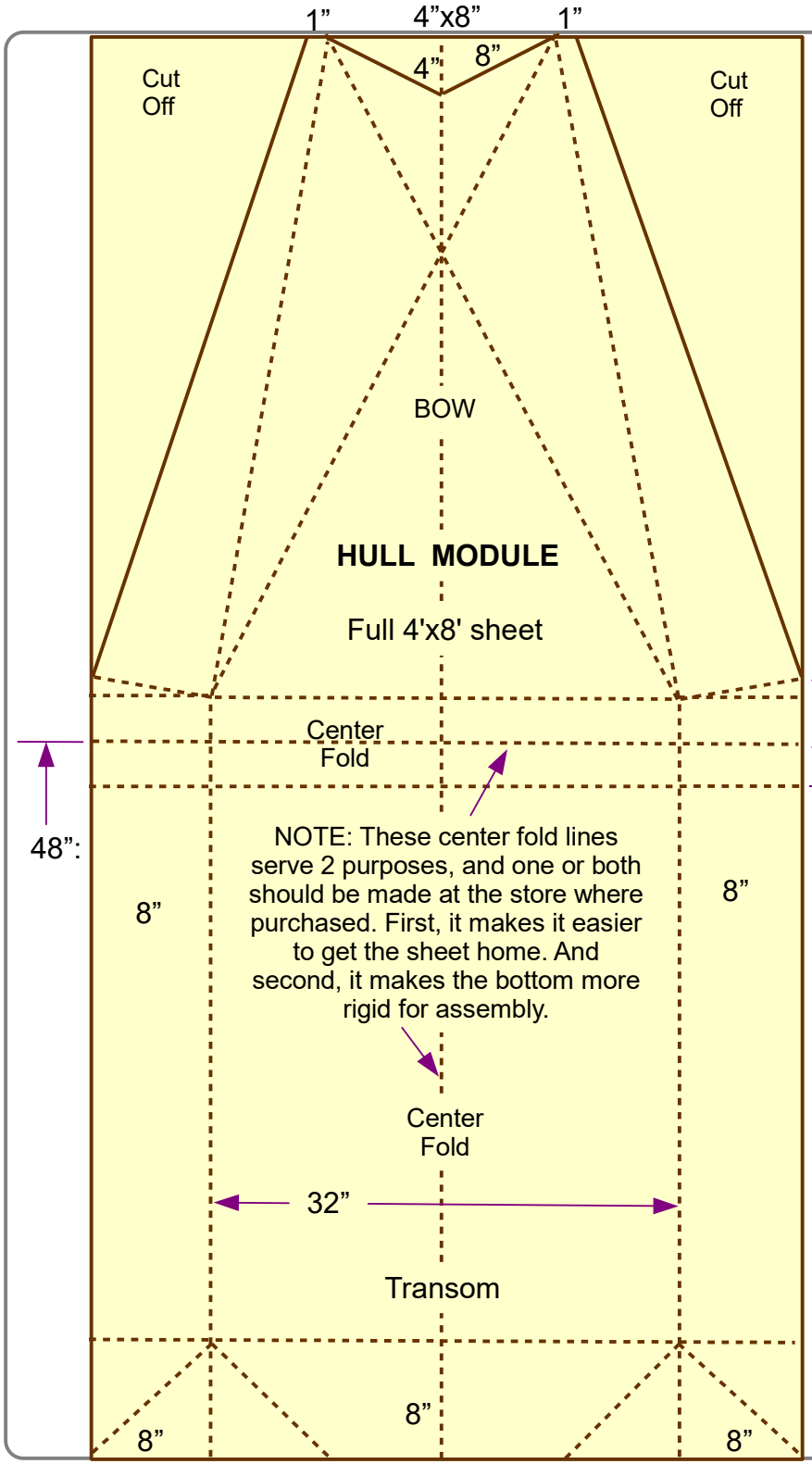
Solid lines are cut lines.

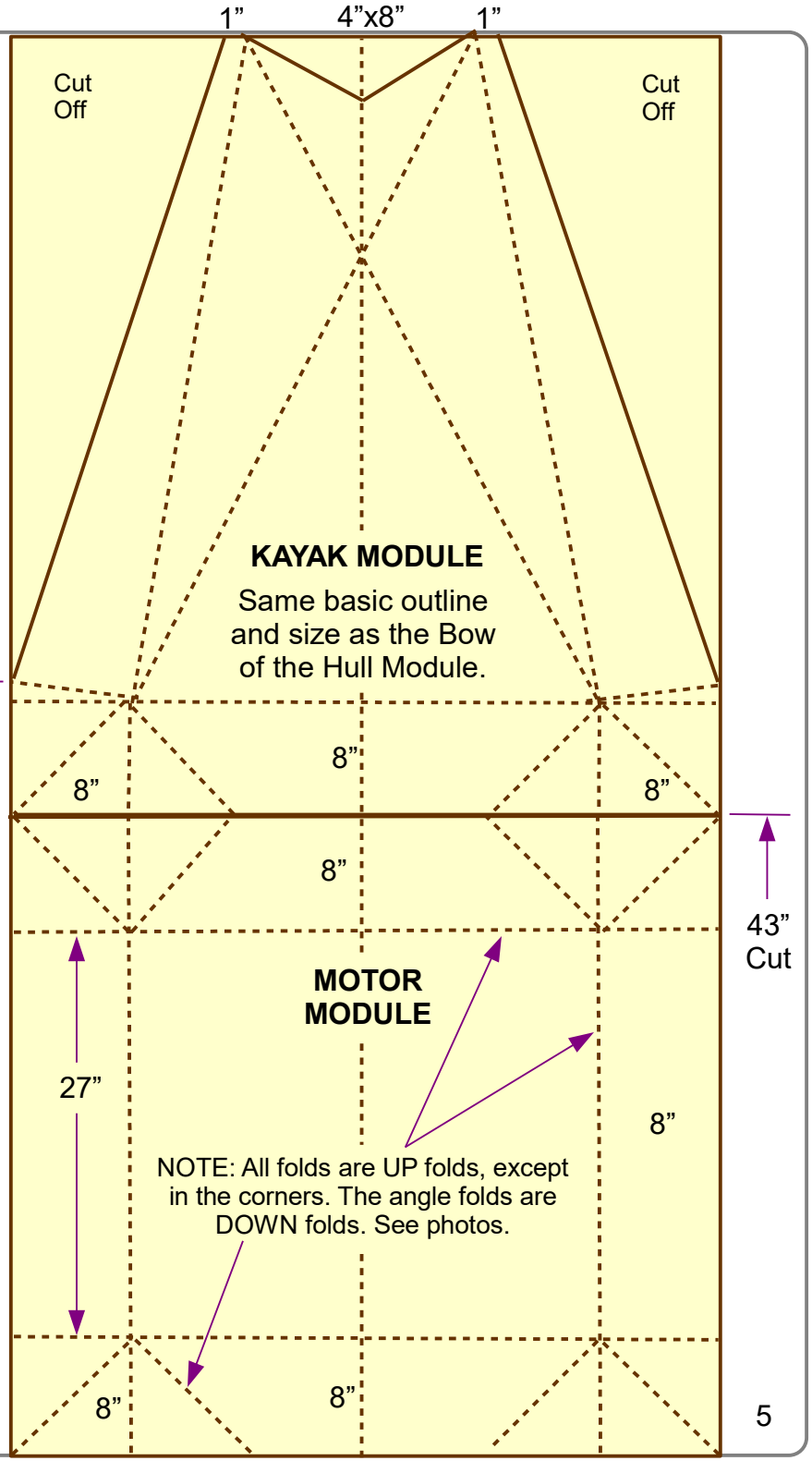
Dotted lines are fold lines.



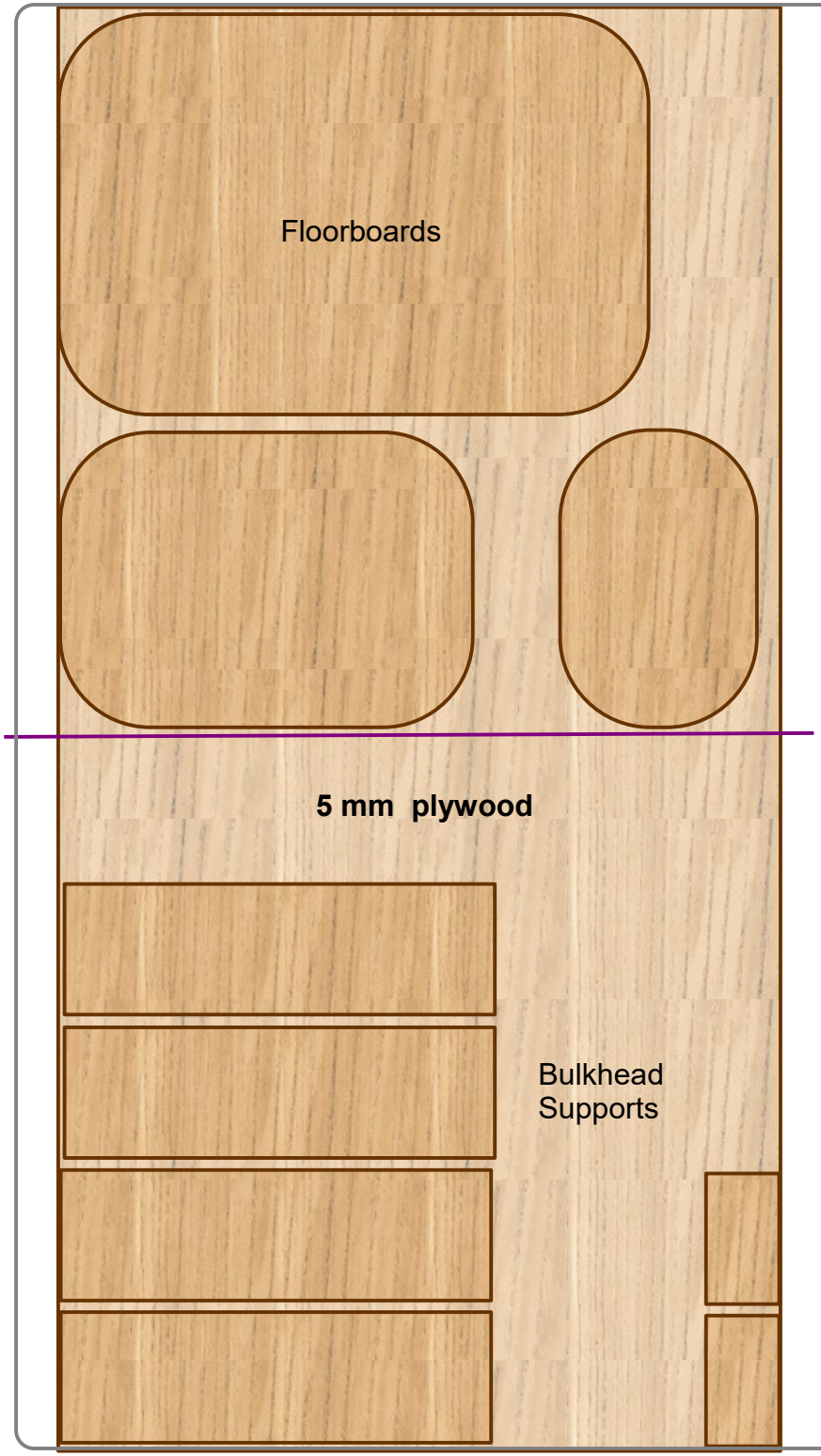
Both Modules on the right mount to the transom of the Hull Module. Either the Motor Module, or the Kayak Module, depending on your daily need.

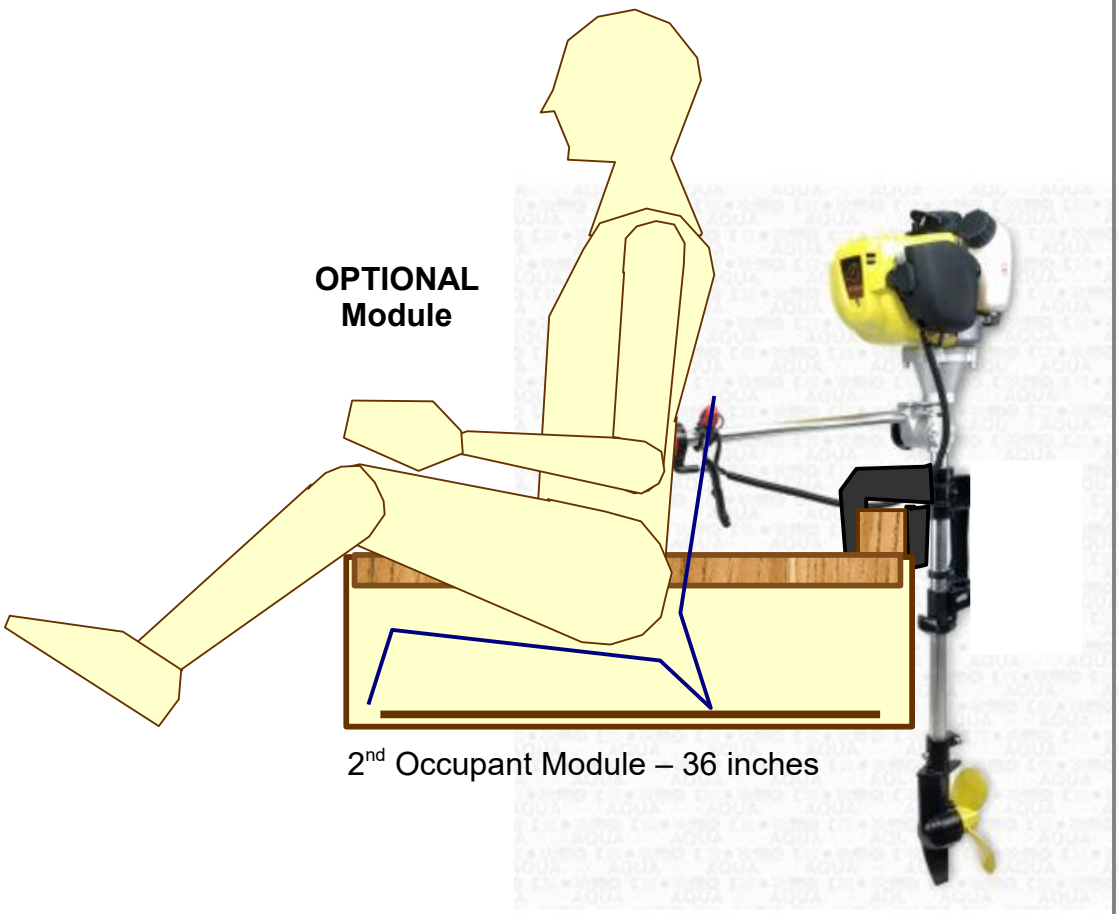
Portable Boat Plans.com





The HYBRID CRUISER





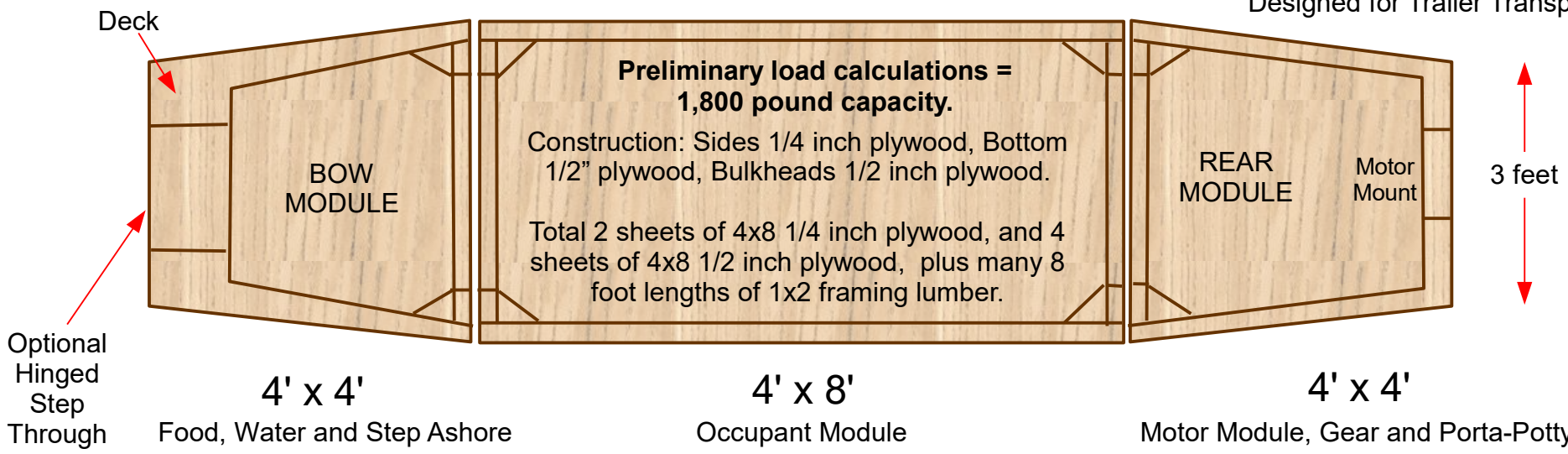
FAMILY BARGE

Fourth Outline
6-19-2017

Total assembled length = 16 feet

Custom sketched for Mark Tarquinio

Designed for Trailer Transport



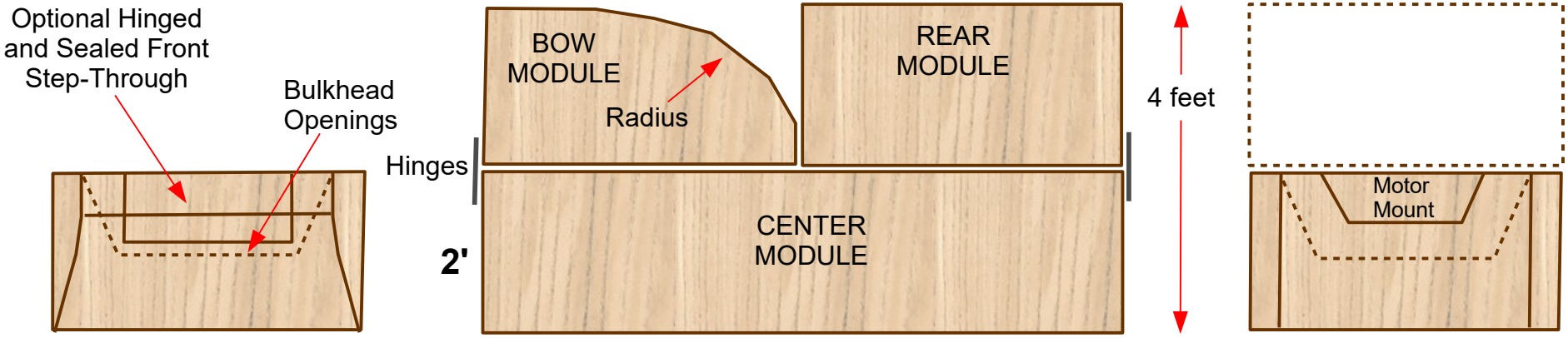
4' x 4'
Food, Water and Step Ashore

4' x 8'
Occupant Module

4' x 4'
Motor Module, Gear and Porta-Potty

As designed, each module is self supporting. Lowering the center of the bulkhead 12 inches, as shown below, makes entry to each much easier. Remote steering is required. All 3 modules can be occupied. Which brings to mind, the seating. I suggest the use of fold-up beach chairs, for comfort and storage. Leave the modules as wide open as possible, for stacking and safety purposes.

The use of hinges to join the modules is suggested, IF the combined weight is not too much to handle. Otherwise, load the modules individually for transport and storage. Either way, they need to be bolted together for water use.



BOW

Stacked for Transport

TRANSOM

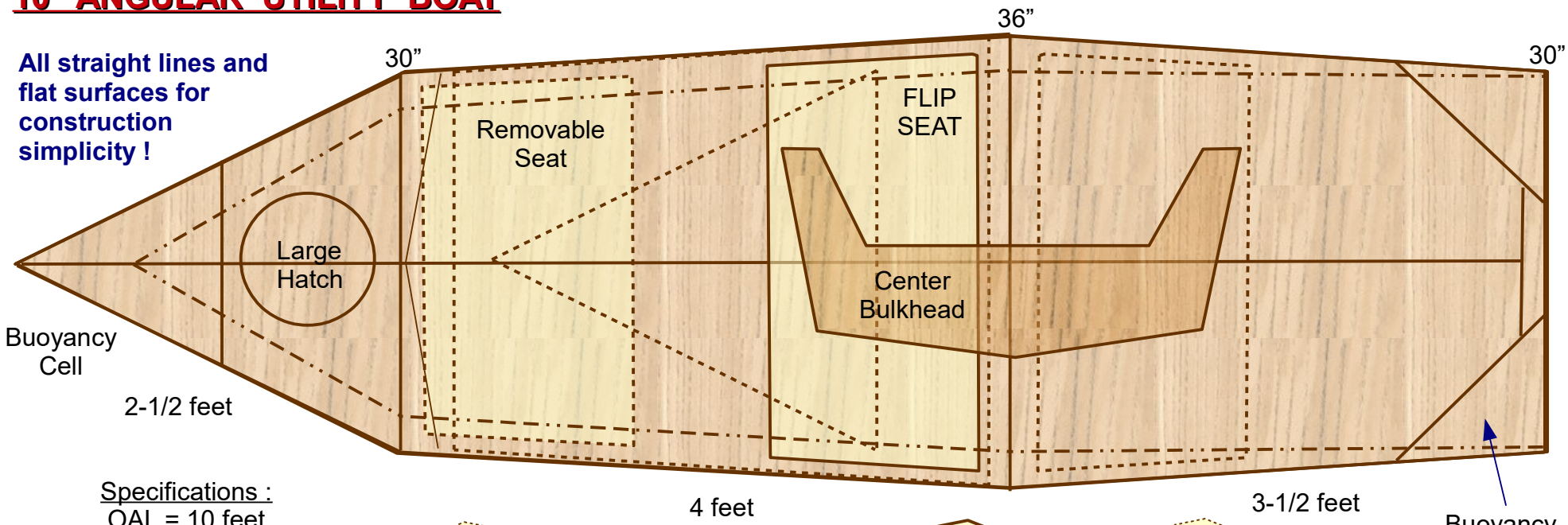
Design comments welcome.

Ken Simpson

10' ANGULAR UTILITY BOAT

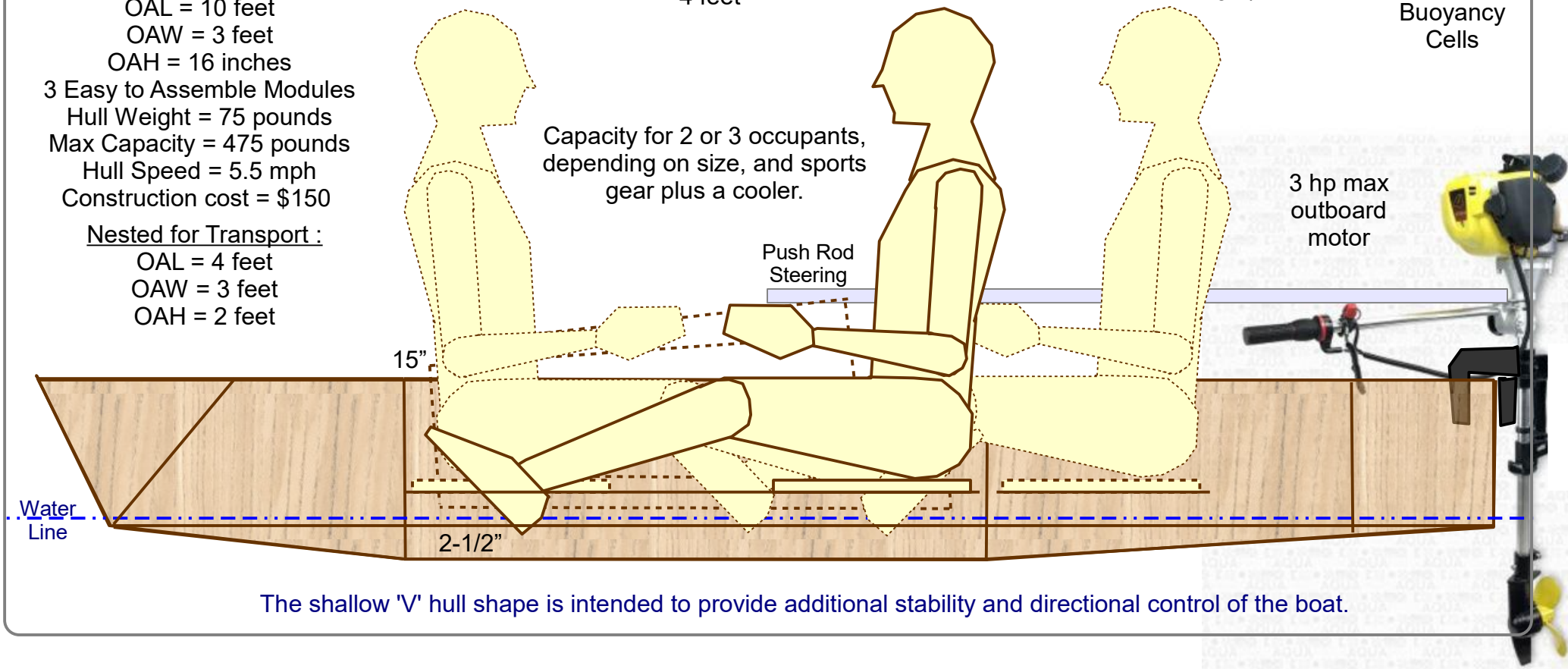
The buoyancy cells are designed to keep an empty boat afloat.

All straight lines and flat surfaces for construction simplicity !



Specifications :
OAL = 10 feet
OAW = 3 feet
OAH = 16 inches
3 Easy to Assemble Modules
Hull Weight = 75 pounds
Max Capacity = 475 pounds
Hull Speed = 5.5 mph
Construction cost = $150

Nested for Transport :
OAL = 4 feet
OAW = 3 feet
OAH = 2 feet



The shallow 'V' hull shape is intended to provide additional stability and directional control of the boat.

The MINIMALIST

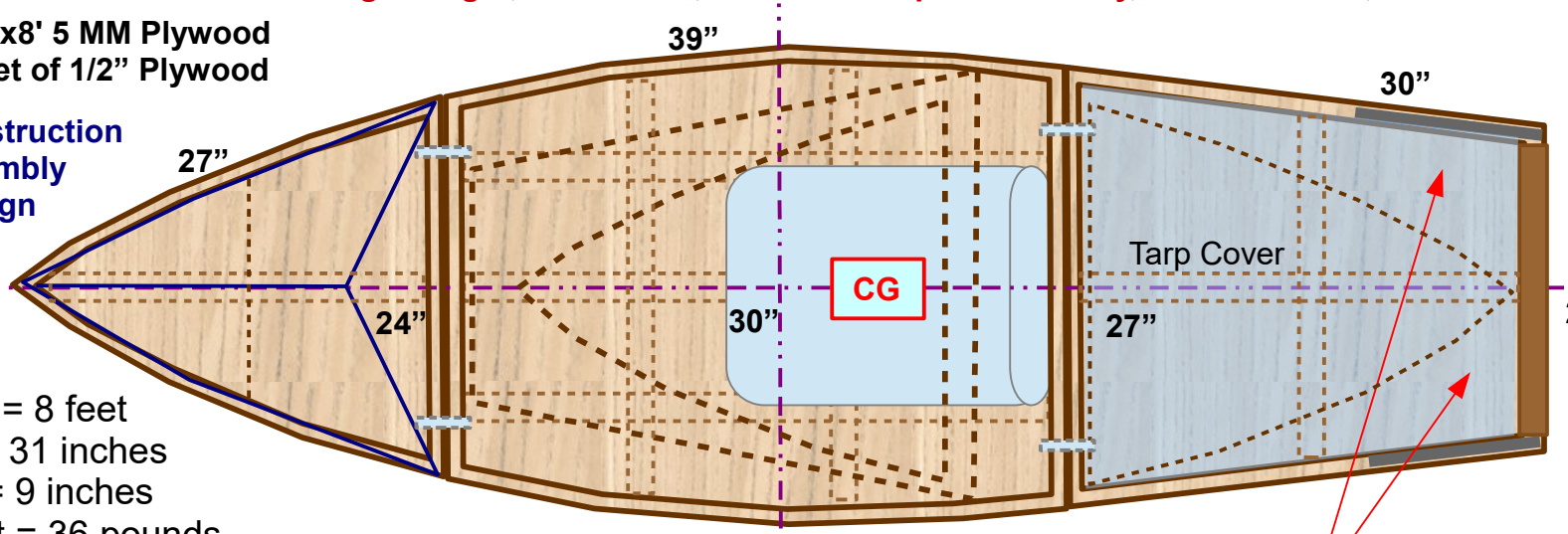
Why even consider building this boat? Well, it can fit in any car for transport, it is lightweight, unsinkable, low cost and paddles easily, but most of all, it's fun !

6-20-2017

This design uses the least amount of materials than any of my other plans.

1 Sheet of 4'x8' 5 MM Plywood
1 - 2'x4' sheet of 1/2" Plywood

Simple Construction
Quick Assembly
Robust Design

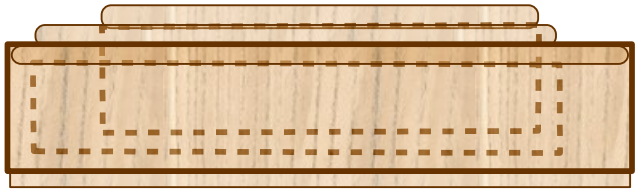


OAL = 8 feet
OAW = 31 inches
OAH = 9 inches
Hull weight = 36 pounds
Hull speed = 5 mph
Max load = 210 pounds

Can be paddled, rowed, or small motor powered.

Fill in outer areas, where the modules nest, with foam sheets to the gunwale, for safety buoyancy. Fill the bow area of the front module also. A thin plywood decking can be applied over the foam for appearance purposes.

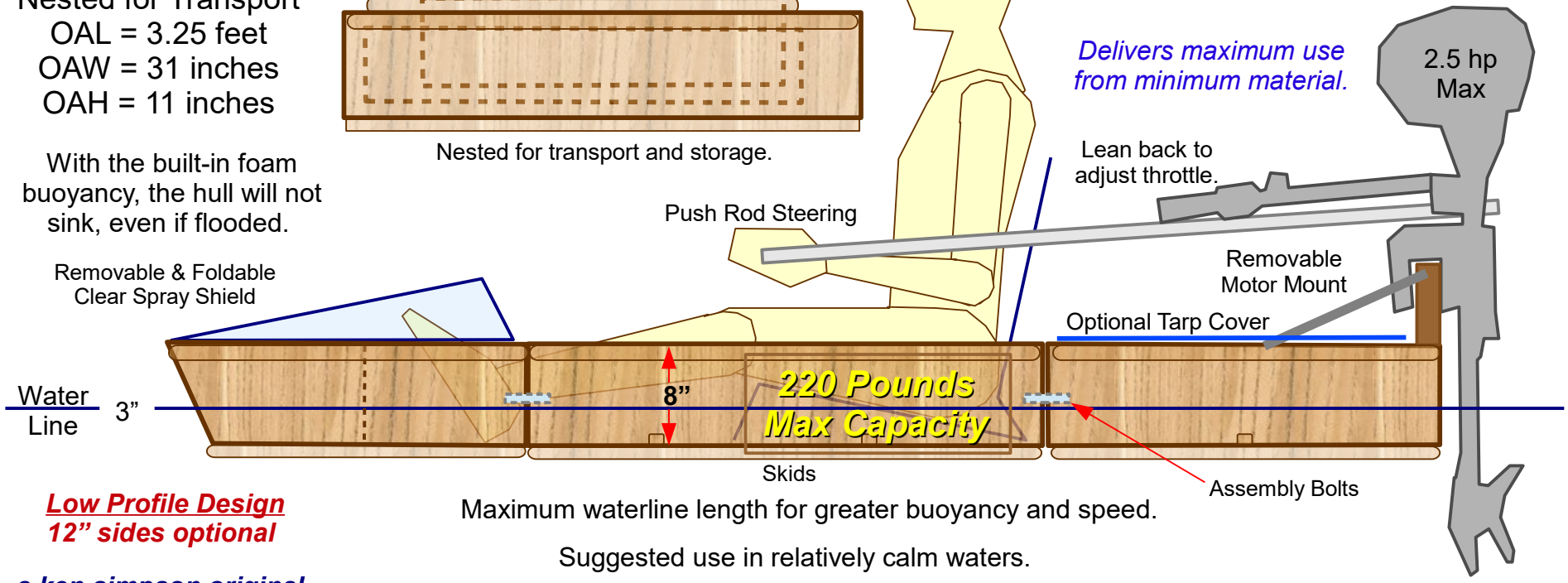
Nested for Transport
OAL = 3.25 feet
OAW = 31 inches
OAH = 11 inches



Nested for transport and storage.

With the built-in foam buoyancy, the hull will not sink, even if flooded.

Delivers maximum use from minimum material.



Low Profile Design
12" sides optional

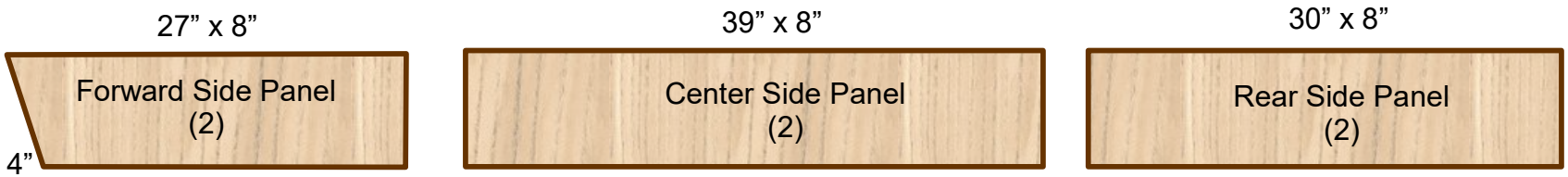
Maximum waterline length for greater buoyancy and speed.

Suggested use in relatively calm waters.

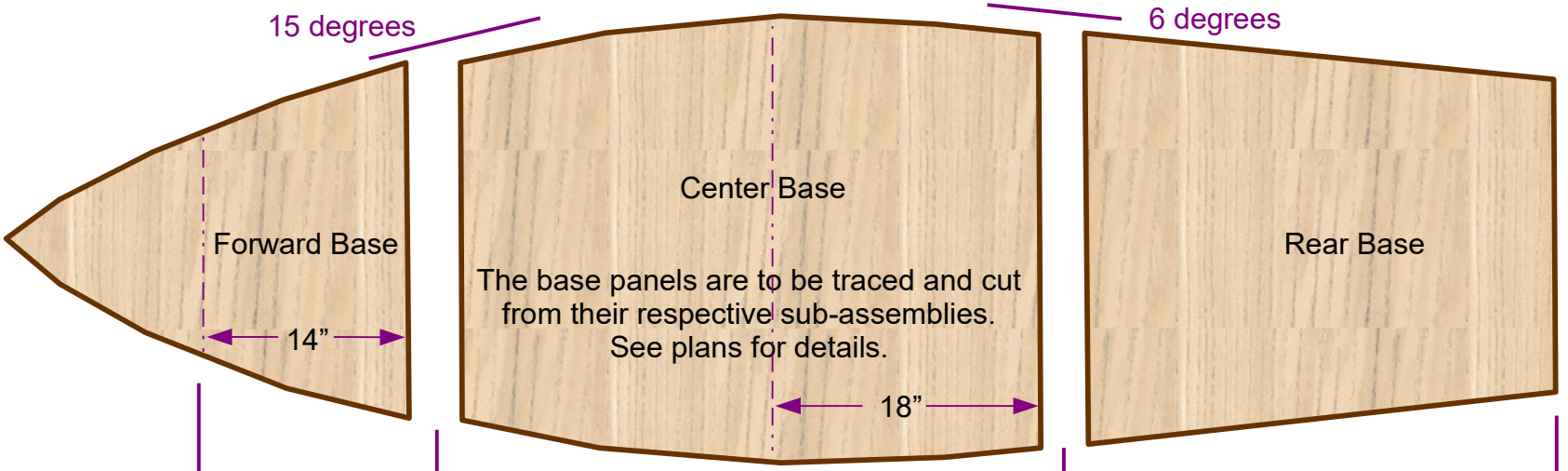
a ken simpson original

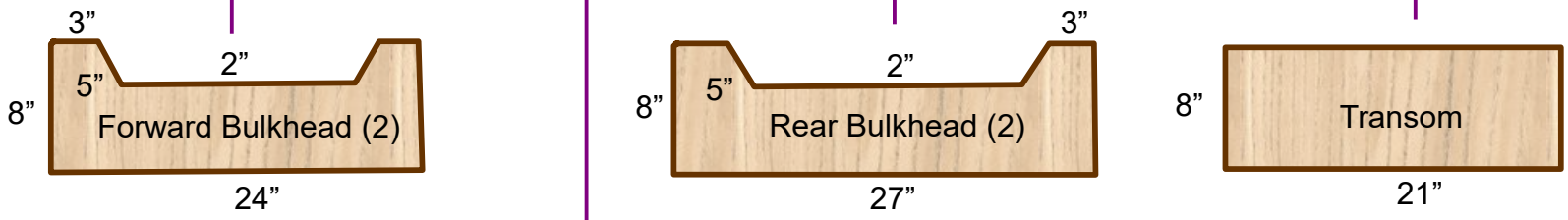
The MINIMALIST

PANEL DIMENSIONS

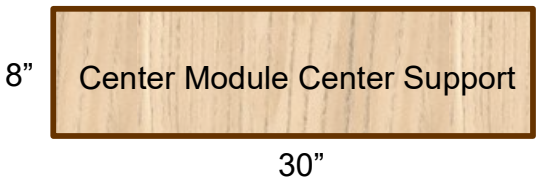


Side Panels and Base Panels are cut from 5 MM Plywood.





Bulkheads and Transom are cut from 1/2” Plywood

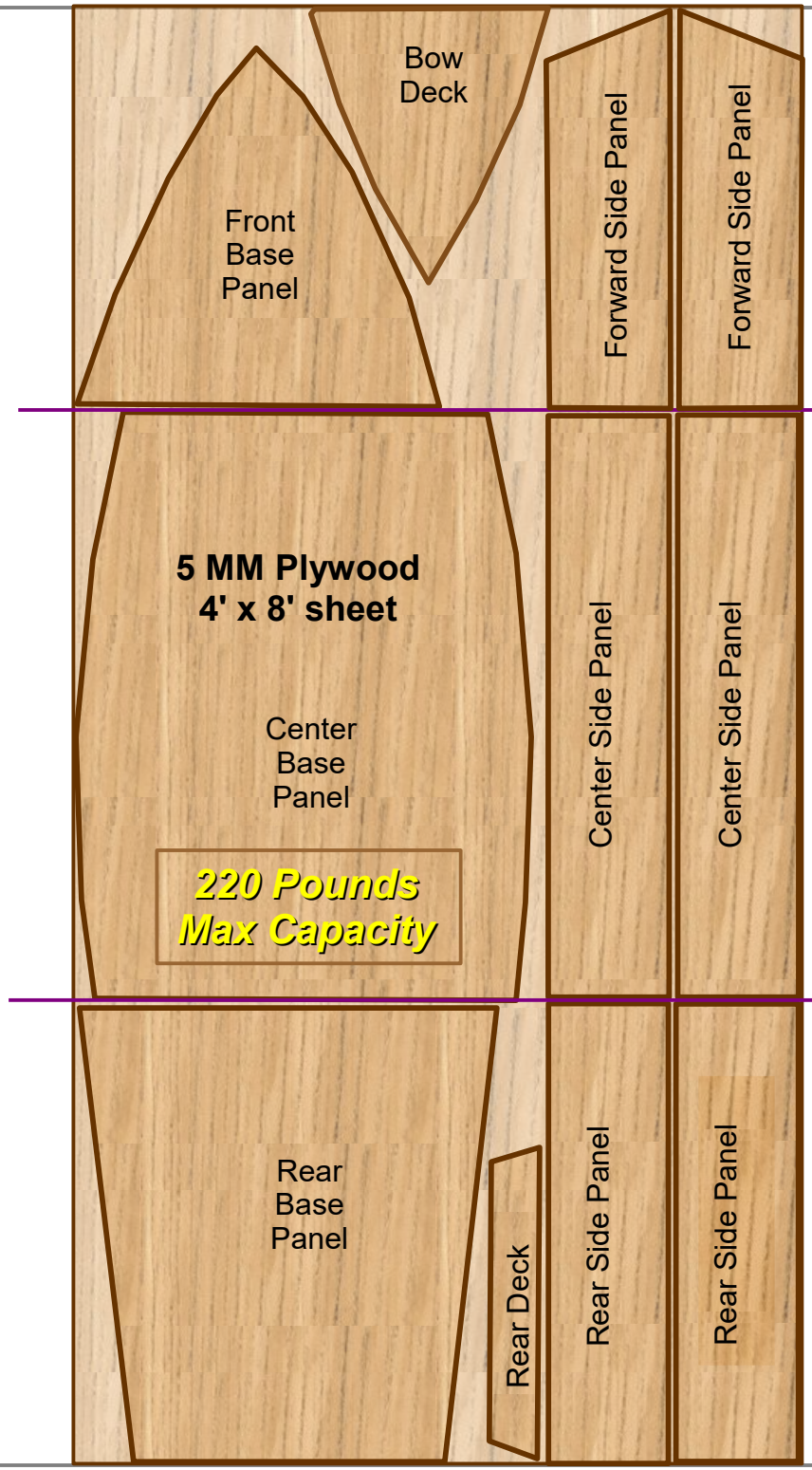


A temporary construction aid. Make from scrap wood.

The hull could be constructed of only 2 modules, for those that have greater transport space.
Rear Module = 51” long
Front Module = 45” long

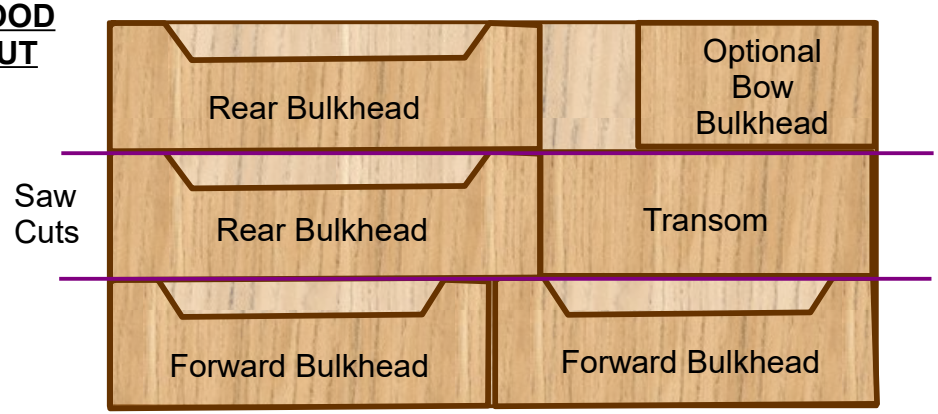
a ken simpson original design

The MINIMALIST



PLYWOOD LAYOUT

1/2” Plywood
2' x 4' sheet



The Bulkheads will be slightly smaller than the dimensions specified, due to the width of the saw blade. But, that is as designed, 3 equal height panels, as shown above..
Make the height of the Side Panels to suite.

The base panels are to be traced and cut from their respective sub-assemblies. See plans for details.

The optional 12” high side panels will require another 4'x4' sheet of 5 MM plywood, and a 3'x4' sheet of 1/2”plywood, instead of the 2'x4' sheet.

Make these 2 cuts first. Can be done at the lumber yard for easy transport home.

The WANDERER

4'x8' sheet of 5 MM plywood

240 Pounds Max Capacity

32”

8”

8”

Side Panel

Side Panel

Rear Base Panel

Optional Deck

10”

48”

10”

28”

Forward Base Panel

Cut this base pane to fit, after side panel assembly to bulkhead and bonded to the bow post..

Side Panel

Side Panel

Optional Bulkhead

2x2 Bow Post

8”

3”

<u>Hull Dimensions</u>
OAL = 8 feet
OAW = 32 inches
OAH = 12 inches
Weight = 35 pounds
<u>Nested</u>
OAL = 4 feet
OAW = 32 inches
OAH =16 inches
<u>Hinged & Stacked</u>
OAL = 4'
OAW = 32”
OAH = 25”

Stacked

Add 2 skids and internal cross supports for strength and stiffness.

Add gunwale rub rails for protection

2.5 HP Max

Push rod steering

Seating type is builders option.

Nested

A one sheet little wonder. Fits in the back seat of almost all cars. Two modules for quick assembly at the water. Capacity of 225 pounds. Row or paddle, as well as outboard motor power. Comfortable, and tracks well. Sufficient freeboard for most ponds and lakes. Great for fishing, or just cruising the open waters. Hull speed **4.8** *mph*. Weighs only 35 pounds.

The rounded bottom assists in directional control, and increases buoyancy.

31”

8”

TRANSOM

1-1/2”

Make a seat out of the left over 1/2” plywood.

2”

6”

5”

10”

BULKHEAD

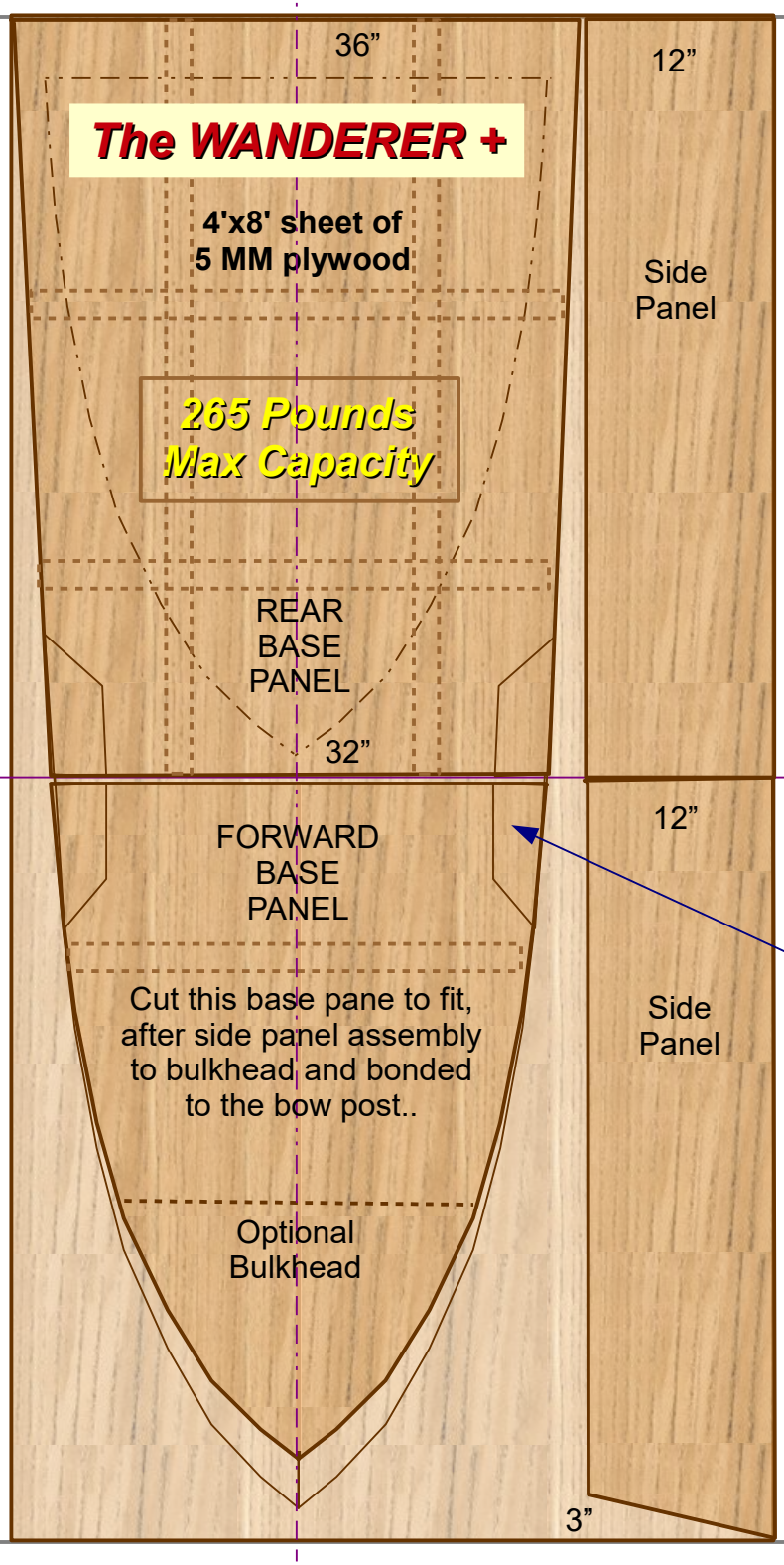
27”

1-1/2”

BULKHEAD

10”

3'x4' sheet of 1/2” plywood

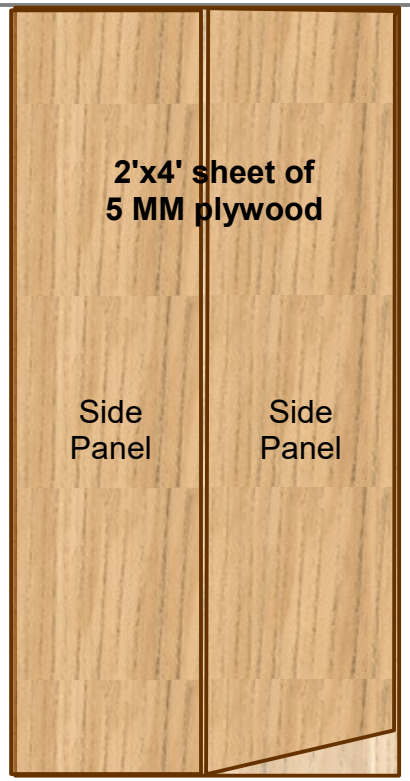


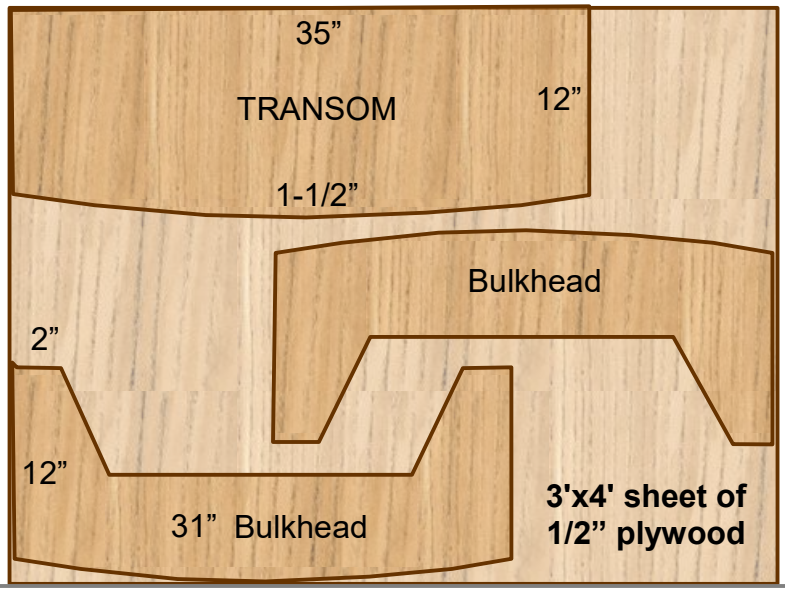
The primary advantage of the **+** version is a greater payload, about 260 pounds. It does require a larger vehicle for transport, and will not fit in most cars. So, a Truck or SUV is required.

The only additional wood required for the **+** version is a 2'x4' sheet of 5 MM plywood. All other materials and instructions are the same as the standard WANDERER.

If you want yet a larger version, such as a 4' wide x 10 ' long version, just scale up the plans to suite your particular payload needs. A 4'x10' version will have a capacity over 440 pounds. (Rear module 5.5' long, front module 4.5' long)

Make it your own !

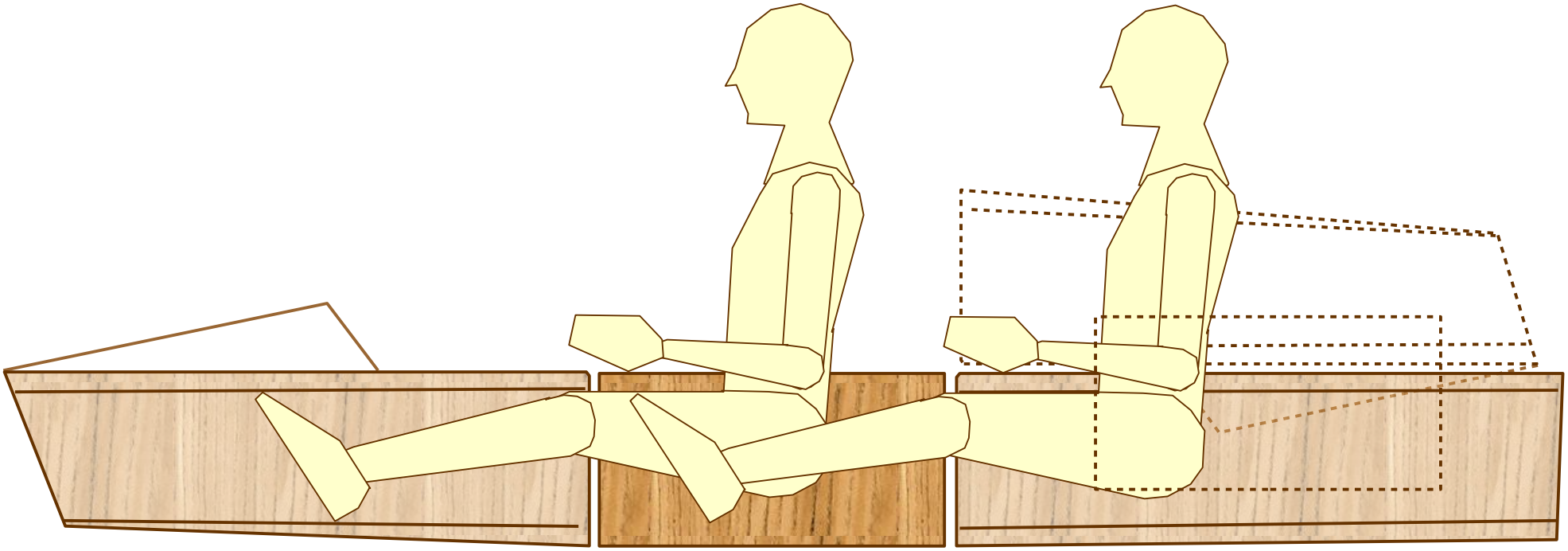




The WANDERER ++

Make assembly at the water easier and less time consuming.

Hinged and stacked forward module to rear module is one method. Nested modules take time to set up !
Seat, paddles, steering arm and PFD already in place in the rear module.



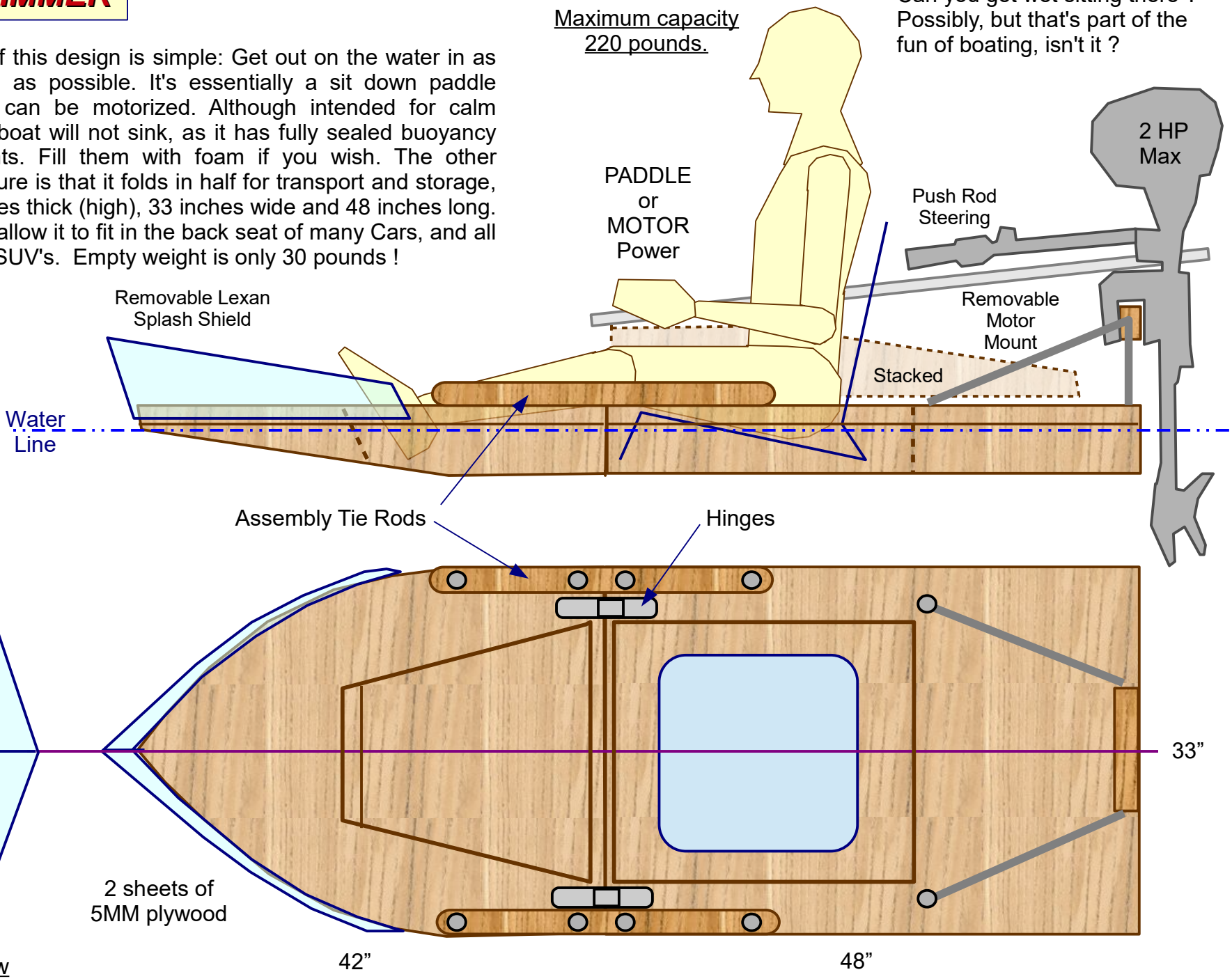
27” Extension

The SKIMMER

The intent of this design is simple: Get out on the water in as basic a hull as possible. It's essentially a sit down paddle board, that can be motorized. Although intended for calm waters, the boat will not sink, as it has fully sealed buoyancy compartments. Fill them with foam if you wish. The other primary feature is that it folds in half for transport and storage, only 12 inches thick (high), 33 inches wide and 48 inches long. This would allow it to fit in the back seat of many Cars, and all Trucks and SUV's. Empty weight is only 30 pounds !

Maximum capacity
220 pounds.

Can you get wet sitting there ?
Possibly, but that's part of the fun of boating, isn't it ?



MORE NEW DESIGNS TO COME !