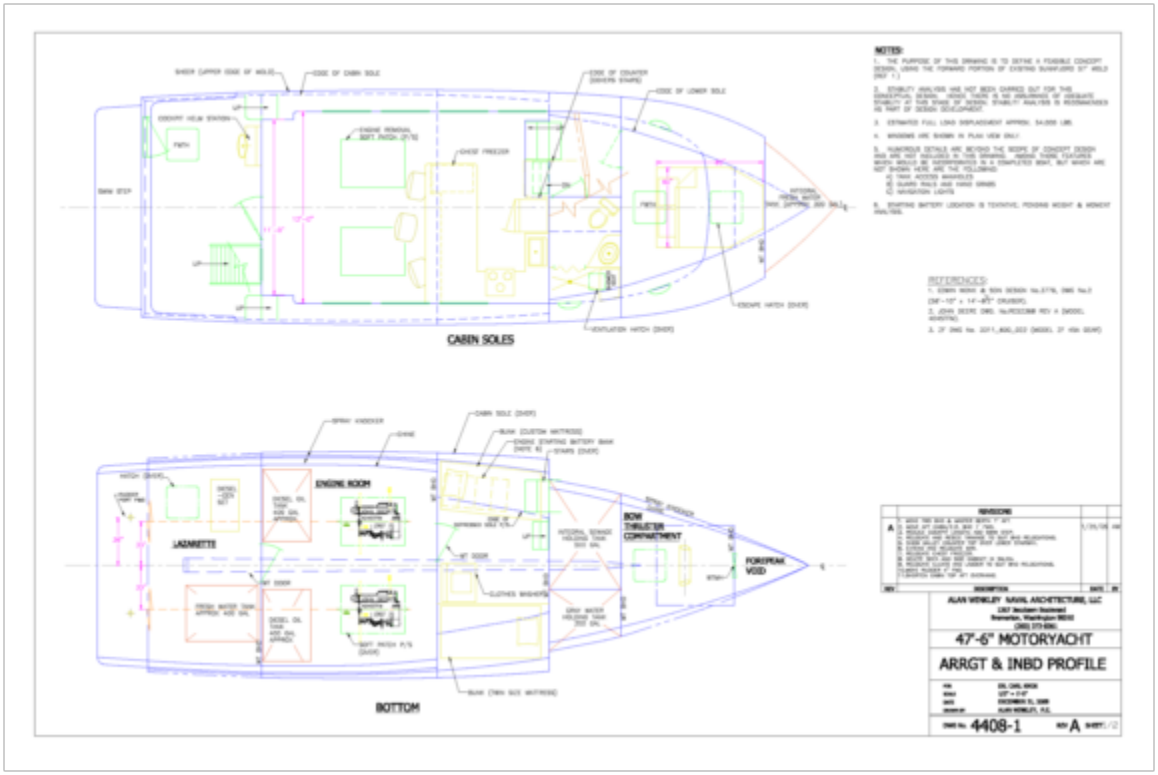
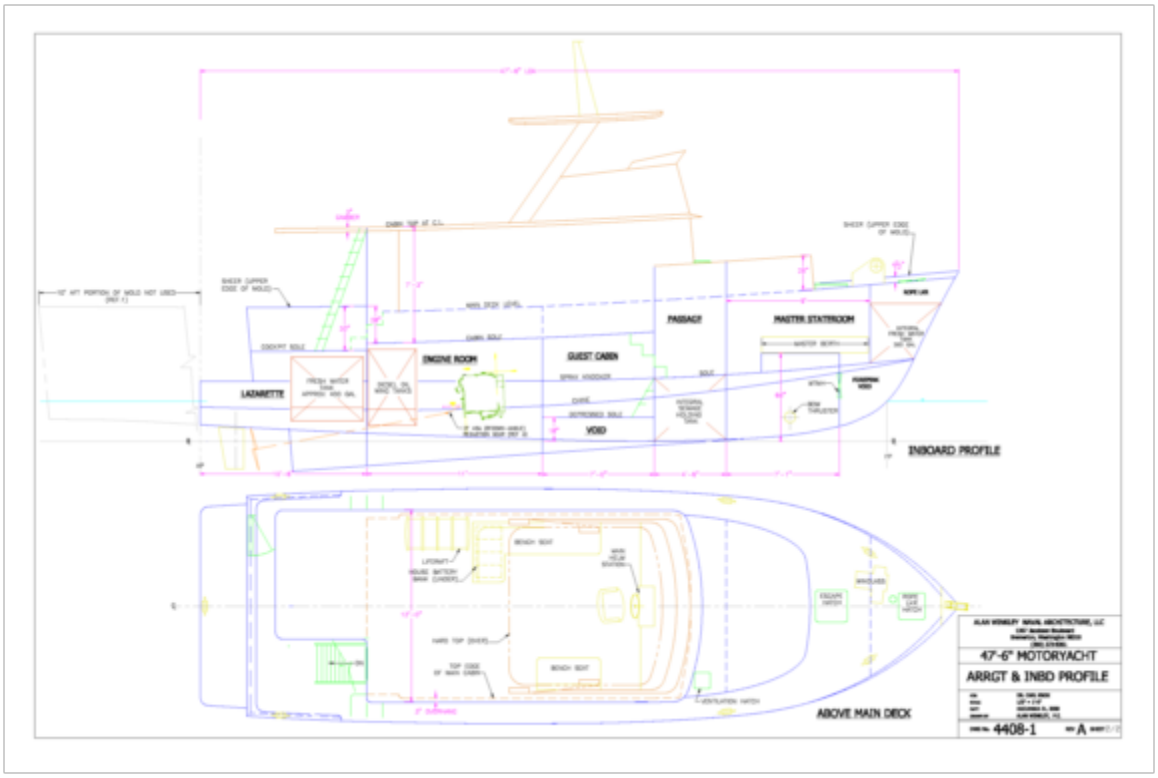
47’ Motoryacht Concept Design

The purpose of *concept design* is to demonstrate the feasibility of an idea, to enable a rough estimate of the construction and operating cost, and to give the prospective owner a chance to consider the pros and cons. The conceptual design is also used as a base from which discussions and other design variations can be explored and compared, leading to a more refined *preliminary design*, and eventually to a much more detailed *contract design*.

The concept design shown below was prepared for a local family seeking to upgrade from a well-liked, but cramped, boat, to a slightly bigger boat with the possibility for week-long cruising and even a live-aboard lifestyle in later years. The owner had specific requirements for the arrangement of spaces, which were not to be found in production boats. The fiberglass hull utilizes an existing mold which has been used by Sunnfjord Boats (Tacoma, WA) for a number of motoryachts in the past. The principal characteristics are as follow:

Length, overall	47’- 6” (14.48m)
Length of waterline	42’- 6” (12.95m)
Beam	13’- 4” (4.06m)
full load displacement	54,000 lbs (24.5t)
installed horsepower	242 BHP
cruising speed	approx 10 knots




LAZARETTE
ENGINE ROOM
GUEST CABIN
PASSAGE
MASTER STATEROOM
VOID
INBOARD PROFILE
ABOVE MAIN DECK
47'-6" MOTORYACHT
ARRGT & INBD PROFILE
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