

**SPACE SHUTTLE**  
(Shown here for size reference)

### BACKGROUND HISTORY

This project is an extrapolation of the U.S.S. ENTERPRISE drawings developed in the year 2020. Those drawings were governed by 3 criteria:

- (1) The 11-foot-2.08-inch (3.4-meter) studio model,
- (2) The Writer's Guide, and
- (3) The 79 episodes plus the original pilot.

There are no such criteria to guide these drawings, but the basic design philosophy is to complete the ships Franz Joseph (FJ) developed for his Technical Manual in the same style as his Heavy Cruiser blueprints. The goal is to try and fit all the components inside the hull. But what are "all the components"? What is the role of a "Light Cruiser" in the STAR TREK universe?

A "Light Cruiser" was a type of ship on Earth in the early 20th Century. They were light in armor, not in displacement. They were still self-sufficient and able to act independently. Throughout history, they served in a variety of roles.

According to Star Fleet, a "Light Cruiser" is a small-to-medium sized multi-purpose vessel, capable of sustained independent operation, but more lightly armed compared to other cruiser types, and not necessarily intended for front-line combat.

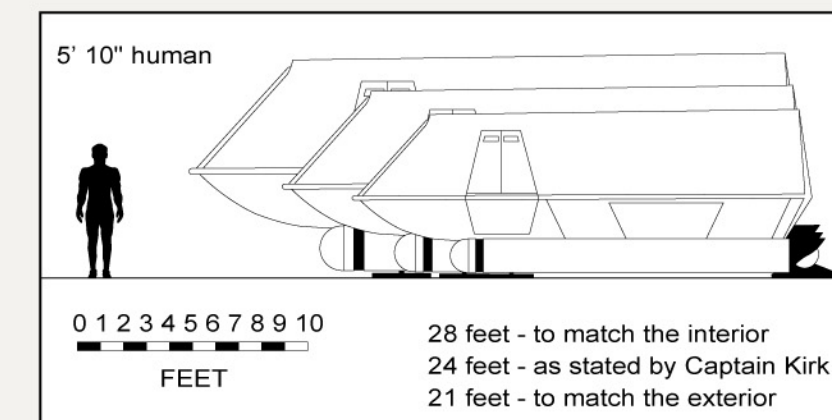
This layout is a combination of 2 drawings (see image at right). Some features from a resin model that was produced in the early 2000s were also used. To make sense of such drastic differences, I suggest layout 1 was built as a proof-of-concept. See Page 4 for more information.

### CONSTRUCTION NOTES

In CHARLIE X we saw how thick the walls are and also what is in the walls. The DESILU plans show walls that are 1 foot (0.3 meters) thick and sometimes even thicker. As with my other blueprints, I decided to make all walls, decks, and hulls 1 foot thick, never thinner. In a few places, the walls are even thicker.

Note that there is no undercut on the Primary Hull of the Dreadnought. The ceiling height is 9 feet (2.74 meters). All the DESILU set details fit except for the 10-foot walls.

The Separation Plane between the Primary Hull and the Warp Engines resulted in an upward shift of Dorsal Decks 2, 3, and 4. Since disconnection equipment is located on Deck 4 and Deck 5, it makes sense to keep this area clear of crew and difficult to access except by authorized personnel.



1/100 scale, if this page is printed at a height of 17 inches

