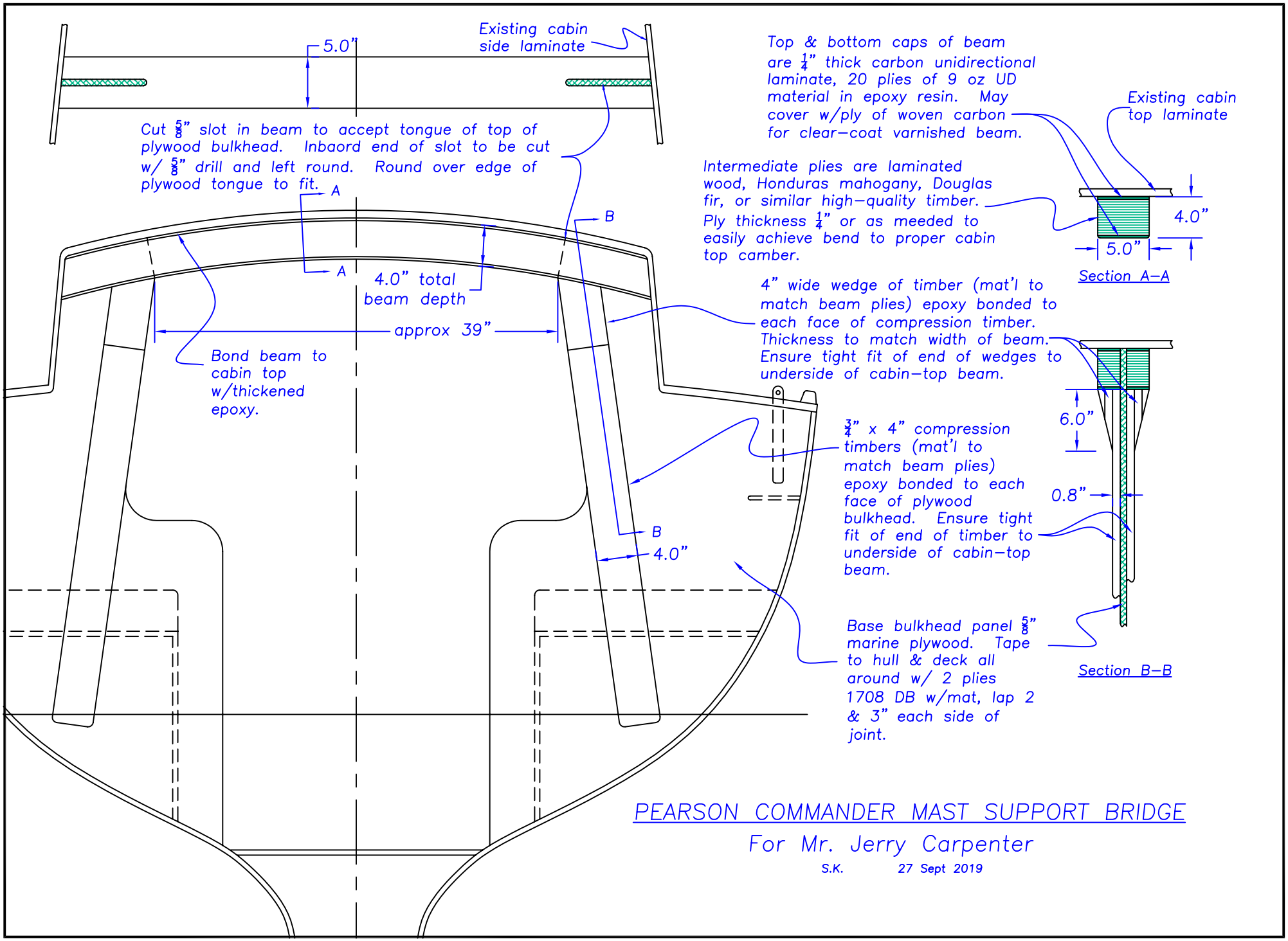
5.0"
Existing cabin side laminate
Cut 5/8" slot in beam to accept tongue of top of plywood bulkhead. Inbaord end of slot to be cut w/ 5/8" drill and left round. Round over edge of plywood tongue to fit.
A
A
B
B
4.0" total beam depth
approx 39"
Bond beam to cabin top w/thickened epoxy.
4.0"
Top & bottom caps of beam are 1/4" thick carbon unidirectional laminate, 20 plies of 9 oz UD material in epoxy resin. May cover w/ply of woven carbon for clear-coat varnished beam.
Intermediate plies are laminated wood, Honduras mahogany, Douglas fir, or similar high-quality timber. Ply thickness 1/4" or as meeded to easily achieve bend to proper cabin top camber.
4" wide wedge of timber (mat'l to match beam plies) epoxy bonded to each face of compression timber. Thickness to match width of beam. Ensure tight fit of end of wedges to underside of cabin-top beam.
3/4" x 4" compression timbers (mat'l to match beam plies) epoxy bonded to each face of plywood bulkhead. Ensure tight fit of end of timber to underside of cabin-top beam.
Base bulkhead panel 5/8" marine plywood. Tape to hull & deck all around w/ 2 plies 1708 DB w/mat, lap 2 & 3" each side of joint.
Existing cabin top laminate
4.0"
5.0"
Section A-A
6.0"
0.8"
Section B-B
PEARSON COMMANDER MAST SUPPORT BRIDGE
For Mr. Jerry Carpenter
S.K. 27 Sept 2019