







220 STUDENTS

24 WEEKS

4 HOURS/WEEK/STUDENT

20 CREDIT







VISUAL COMMUNICATION

SKETCHING EXERCISES

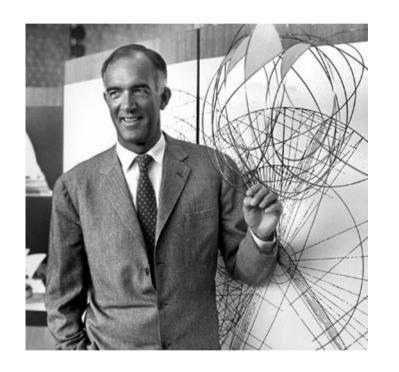
SKETCHUP MODELLING

AUTOCAD DRAFTING

REVIT (introduction)

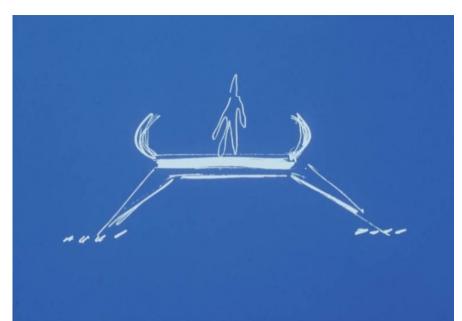


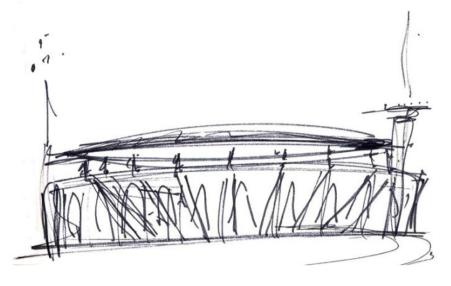


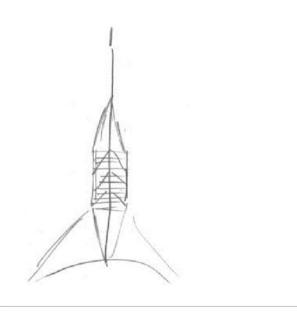


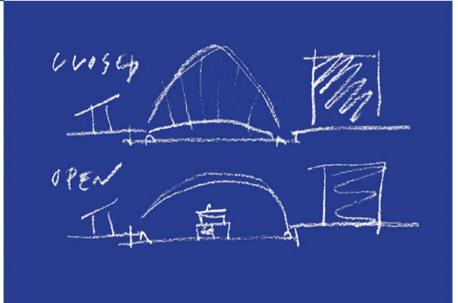






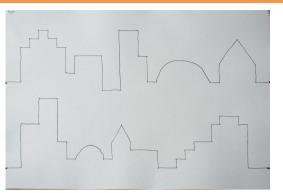


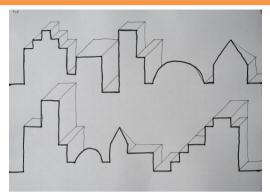


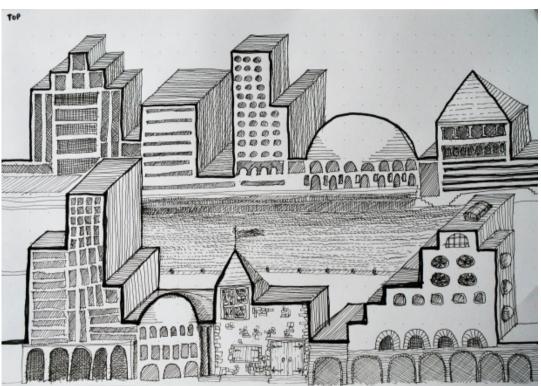












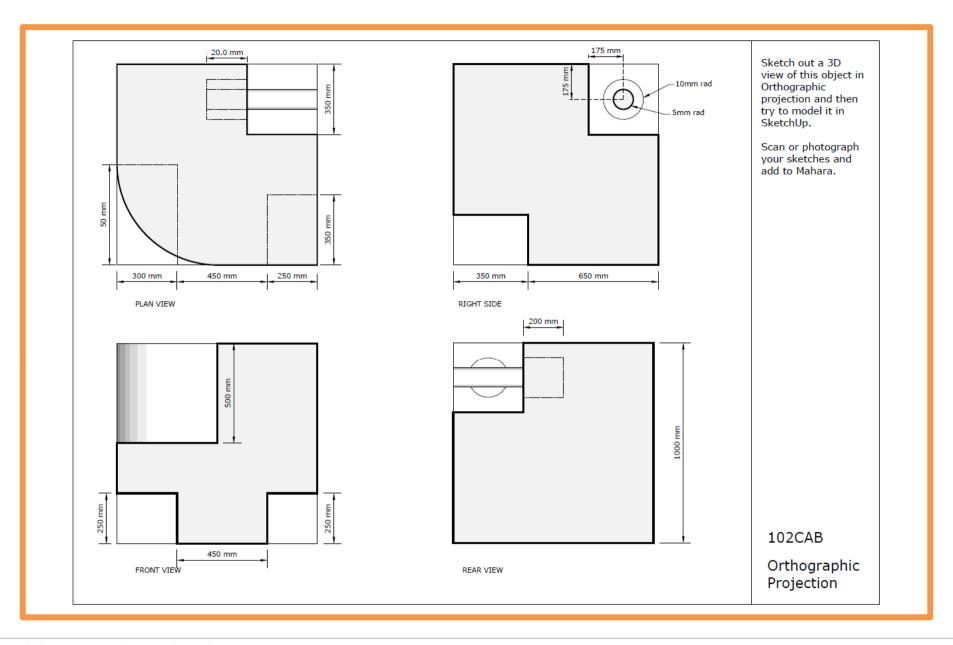






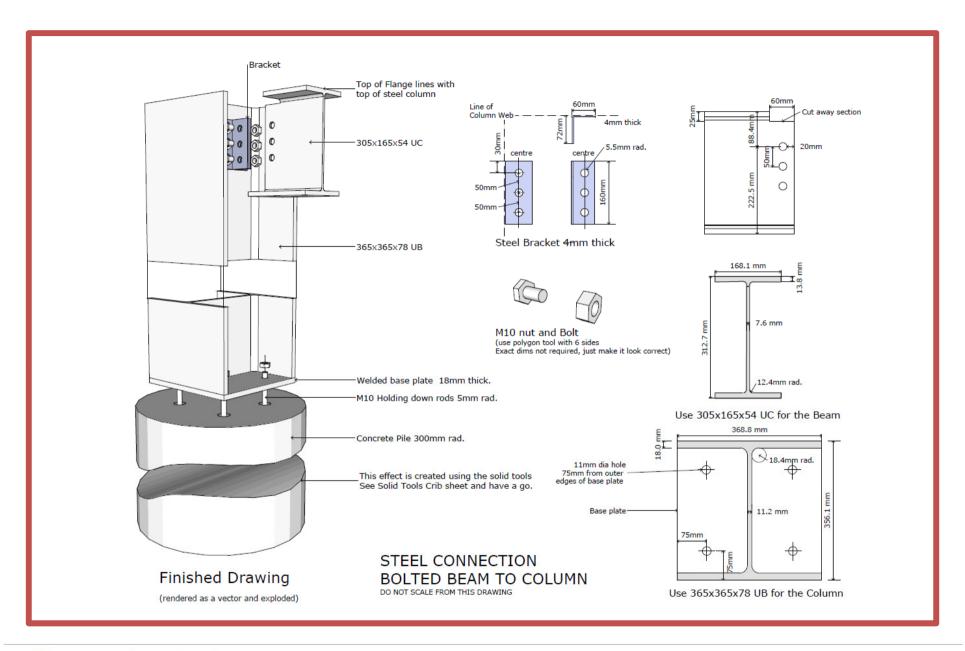
















T1 ASSIGNMENT

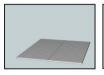


SURVIVAL SHELTER



















months, I decided to design it with both comfort and sustainability in mind.

By having my shelter on top of the cliff, the solar water collectors are more exposed to the sunlight, the wind turbine has higher exposure to the wind and I avoid the tide from the sea.

However, the higher incline to the south also provides protection from any possible

In order to keep the timber foundations a dry as possible, the shelter is surrounded by a French Drain in order to direct any water away from the structure.

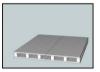
The waste nine uses gravity to move the waste water away from the structure as the pipe can travel down the hill to a further away location.















appliance in my shelter.



If entertainment, I have a document and will be taking a varies books to read for entertainment. As it is summer and the eiter is near the beach, I will be able to take advantage of the casional day of good weather.

using the wasted thermal energy from the exhaust fumes pipe to heat the shelter by having the pipe travel through the adjacent room before leaving through the vent stack in the roof.

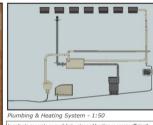
A wind turbine is used to power the lighting, the only electrical











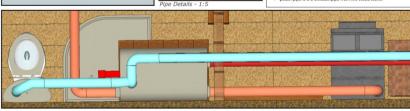
In order to generate as much hot water and heating as energy efficiently as possible I am combining two sustainable systems. In order to heat the water, the exhaust pipe from the wood stove travels through the water storage cylinder. As the pipe will get hot when the stove is in use, the water will be heated. I have also combined this with solar water collectors to collect, and heat water naturally. The high placement of the collectors, guttering and storage cylinder means that a pump is not needed as gravity moves the water. In the diagram below, the:

- · blue pipe is cold collected rainwater from the guttering that is used
- red pipe is hot water from the solar water collectors,
- · peach pipe is the exhaust pipe from the wood stove









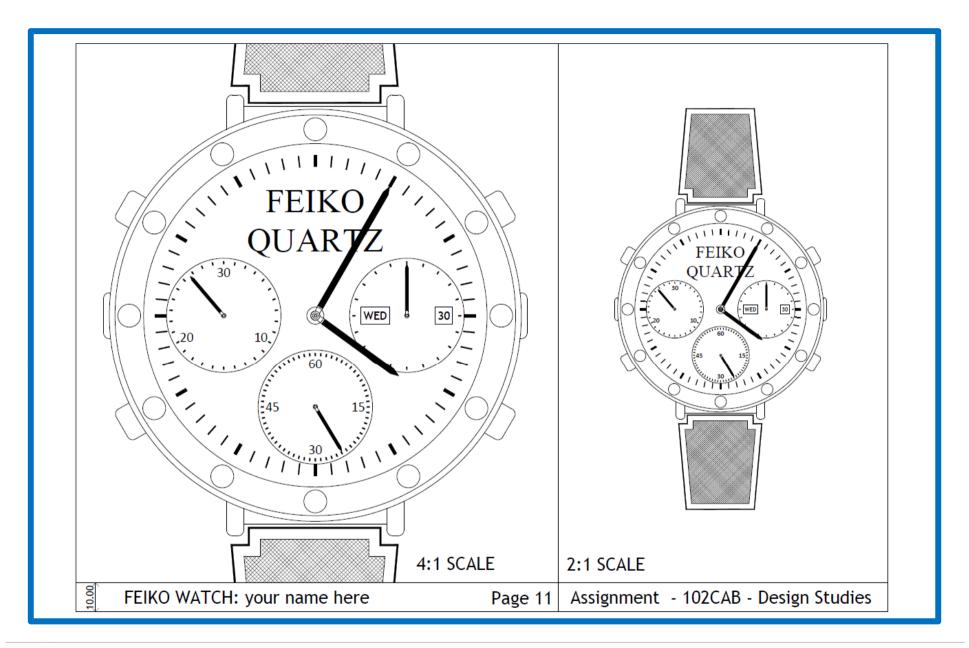


102 CAB • DESIGN STUDIES

Studies

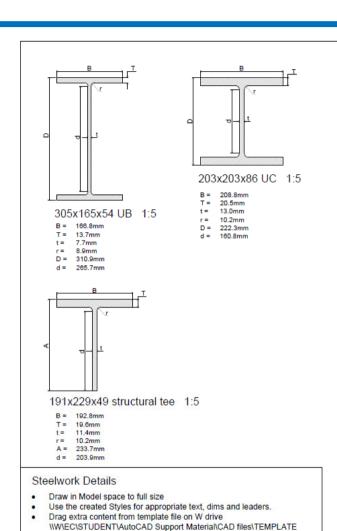
Sur

Design 105CAB

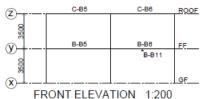


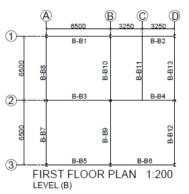


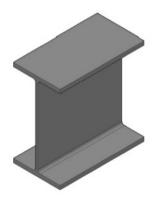




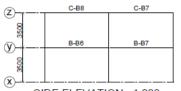
Use Layers to control different geometry and text.
Create Viewports to set up drawing on A3.
Rerfer to drawing for Scale information.
Check out video on Moodle for more information.



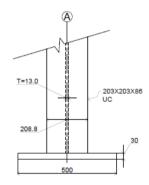




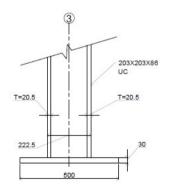
3-D view of 305x165x54 UB



SIDE ELEVATION 1:200



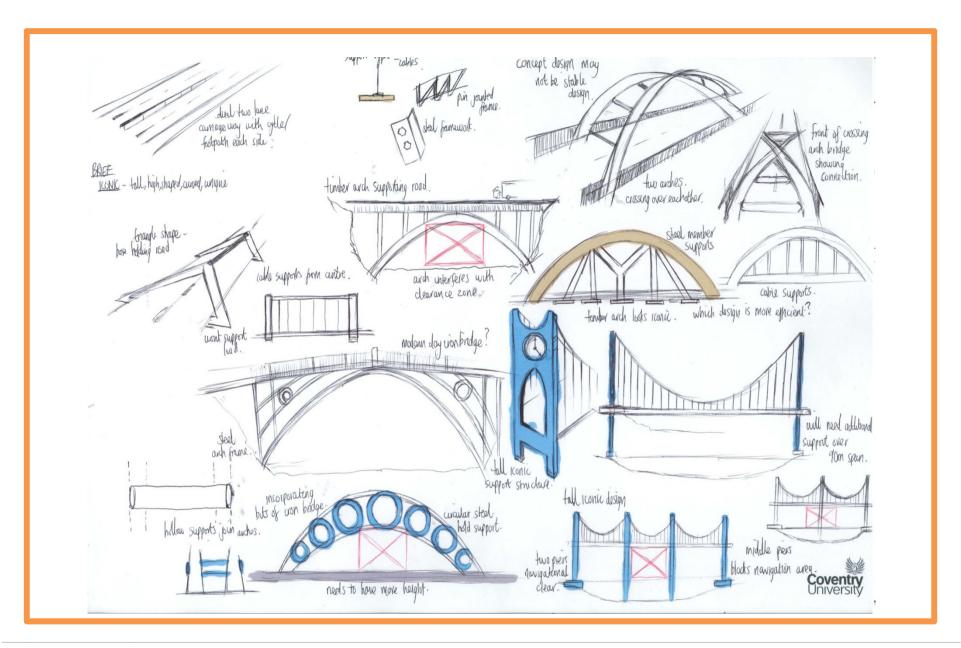
COLUMN ON GL A1 - DETAIL 1:10



COLUMN ON GL 1A - DETAIL 1:10

















Thank You



