

Social Factors

- The average age of the Jandowae community is 53 yrs old
- Jandowae's population is 1047 consisting of 51% female and 48% male
- Jandowae's religion is predominately Christian

Economic Factor's

- The material used must be Corten Steel which can be a cheaper material

Stake Holders

- The stake holders are the community, western downs council, and Jandowae council

About Jandowae

Landmarks

- The Dingo Fence
- Painted power pole walk
- Dingo Sculpture
- Cooper's Gap wind farm

Farming

- Barley
- Millet
- Sorghum
- Timber

Location

- Rural town
- Western downs
- farming town

Events

- The main event in Jandowae is the Timber Town Festival

History

- The original town name was Jindowie (meaning waterhole)

Best known for

- The Dingo Proof fence
- Timber town festival

Jandowae Park Fence Design

Principles of Play

Innovative

Sustainable

Aesthetics

Long Lasting

Sences

Sight

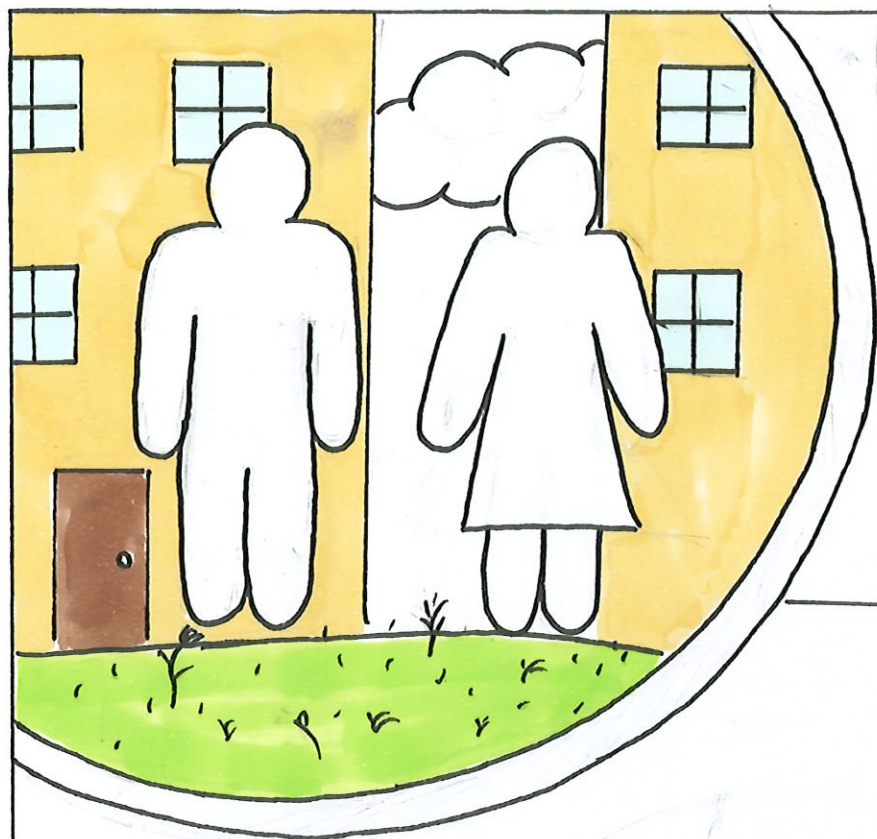
- Sight is the prodominate sense needed and will need to be effectives used to effectives complete the task

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Stakeholders

Key

■ Needs

■ Wants

Tandowae Community

Council

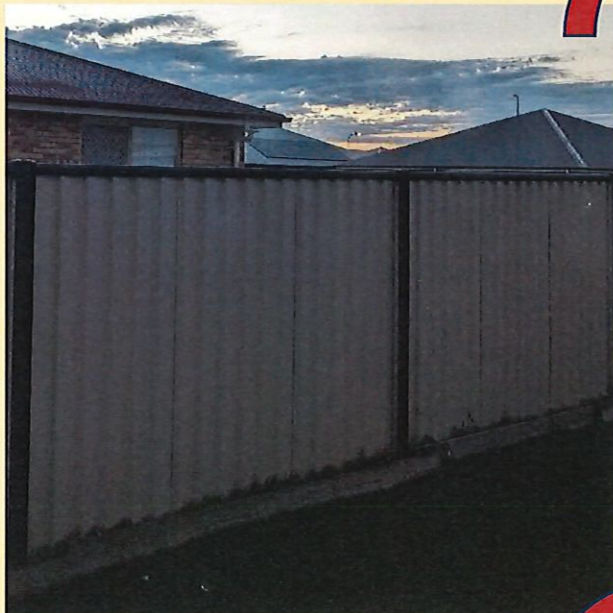
Needs and Wants

- Needs to use limited material
- Needs dingo fence look and feel
- Length of fence 29.5m-30m
- Sheet needs to be 1.2m high
- Needs to include history/story of Tandowae
- Improve safety

- possibly could incorporate the use of LED lighting or even 3D illusions

- Throughout the questions presented to the community it is clear that Tandowae's landscape is important to the community. This can be seen by the mentioning of flat plains and bottle trees.
- Dingoes have been mentioned throughout the questions results and therefore need to be incorporated
- Agriculture is important to Tandowae. (Farming, timber, livestock)
- Festivals are extremely important to the community (Timbertown)

Primary Data



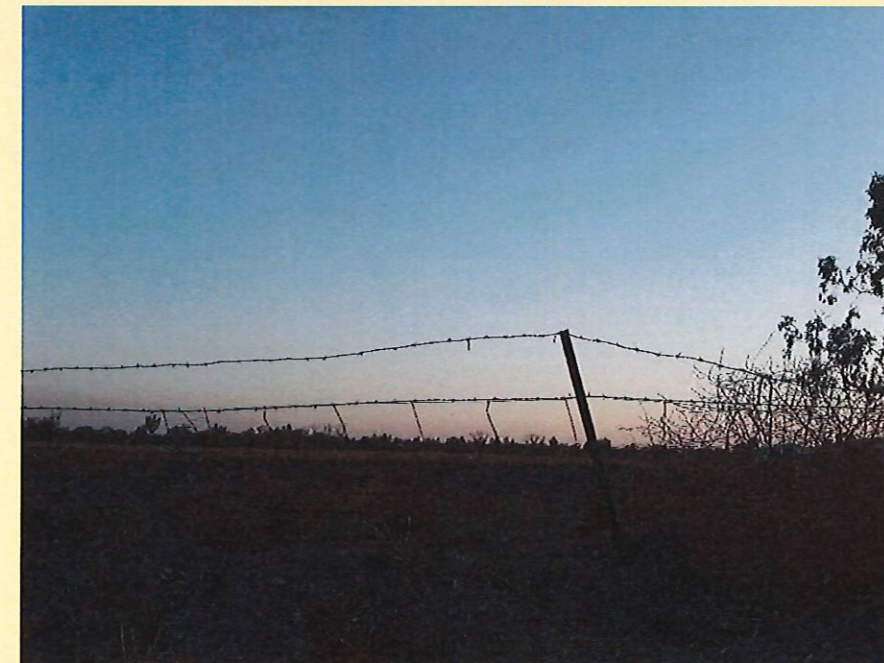
- The design is sturdy.
 - Design is aesthetically pleasing as the surface of the panels are not flat but rather have ridges.
 - Design may be too simplistic.
 - Doesn't incorporate a dingo fence look and feel
- Brief**
Pannels on design are ridged for aesthetics and also to increase durability. Large surface area is used on the design.
- Implications**
The small posts used may cause the fence to fall over time.



- The design has a large surface area which could be used for more designs.
 - Weathered look gives the fence a great rural feel.
 - Design may be too simplistic.
 - Design may not be structurally sturdy.
- Brief**
Design uses vertical panels with little to no spacing in between them. This almost gives the illusion that they are on panel.
- Implications**
Pannels may fall off over time.



- The design uses the combination of vertical and horizontal panels for better aesthetics.
 - Design uses large posts and therefore is sturdier.
 - Design doesn't have much surface area for other designs.
 - Design does not incorporate the dingo fence look and feel.
- Brief**
The design uses little surface area showing the landscape in the background however limiting future designs implemented on panels. Pannels are both in vertical.
- Implications**
The white used on the fence may become dirty over time.



- The design incorporates a dingo fence feel by using barbwire.
 - Design is too simplistic.
 - Design is unsafe with the use of barbwire
 - Design is not structurally sturdy.
- Brief**
Design is a wire fence that includes barbwire at the top. Fence is see-through due to the little surface area used.
- Implications**
Fence will fall over in future as the pickets used lack in stability.

■ Strengths
■ Limitations

Primary Data

Questions for council

1. What is your favourite thing about Jandowae?
2. What makes Jandowae unique to you and how does it differ to other rural communities?
3. What are three words you believe accurately describe Jandowae?
4. What is a symbol that would best represent Jandowae and its community to you?

1. - My favourite thing in Jandowae is when we have festivals and the school to catch up with friends
 - The People
 - The local shop
 - Its fairly quiet. Far enough from Dalby but still close enough
2. - It is unique to me because this is my hometown because I have been here for 8 years
 - Culture
 - The football clubs.
 - Fairly welcoming depending on your association with the variety of social aspects of the community. You can really get involved if you want to.
3. - Happy, fun, and exciting
 - Small, quiet, unique
 - Small, happy, friendly
 - Clicky, fairly quiet, enjoy being in a smaller town.
4. - Timbertown tree
 - Dingo playing sports.
 - The local creek
 - Bottle trees

Questions for community

1. What are the cost and resource limits in terms of the fence?
2. What are some non-negotiables that need to be considered throughout the design?
3. Can other elements such as LED lighting be contributed to the design?
4. What does the design need in order for the fence to be successful?
5. In the project what is the overall goal?
6. What are the required length and height restrictions for the fence?

1. Council has a budget for this project. Once I receive this I can ascertain where I sit within the project and if there is scope for any additional items. Resources as such are limited.
2. Taking into account the other two sides of the fence will have a 'dingo' fence 'look & feel'. This was requested by the community some time ago.
3. Yes, happy to consider LED lighting, 3-dimensional illusions (budget permitted). It will have a similar 'look & feel' to the fence with the laser cut Corten steel and there is LED lighting as part of this design.
4. It needs to reflect the 'look & feel' of the park. Reflect the views of the community and the history/story of Jandowae. The design cannot incorporate the park name (central park).
5. The goal is to improve safety. Improve aesthetics of the park. Opportunity to showcase and tell a story about Jandowae and highlight what the community feels is important.
6. The sheeting must be 1.2m high with a bottom gap of 600mm which mean total height of fence must be 1.8m high. The length of the fence must be approximately 29.5m long.

Secondary Data

Economic factors

Material

- Corten Steel- a steel with a rusty appearance that has very aesthetic qualities and is being increasingly used in design.
- Corten steel is a cheap material costing approximately \$60-\$80 per metres squared.

Social Factors

- The average age in Jandowae is 53 years old.
- 51% of Jandowae are Female.
- 48% of Jandowae are Male.
- The prominent religion in Jandowae is Christianity.

About Jandowae

Landmarks in Jandowae include the Dingo proof fence and the Timber Town Tree

Some crops harvested in Jandowae include Barley, Sorghum and Millet. However they're also well known for their Timber industry.

Jandowae is a rural town located in western Australia.

Timbertown is an event in Jandowae. The festival celebrates their timber industry

The Dingo barrier fence is the second longest man made structure in the world

Sources

- Trip advisor
- Aussie towns
- Whereis
- Western downs queensland

Secondary Data



Strengths

- Trees are aesthetically pleasing and would match the Jandowae community.
- Trees provide space for extra designs.
- Corten steel gives fence a rustic look.

Limitations

- Design is almost too plane

Strengths

- Pattern on the design is aesthetically pleasing
- Colouring of posts work well with Corten steel.
- Space for cut out designs on bottom of panels.

Limitations

- Large posts suffocate panels.
- Design is too modern and doesn't have a dingo fence look and feel.



Strengths

- Fence is transparent and shows area surrounding.
- Fence possesses a dingo fence look and feel.
- Low costing
- Low material usage

Limitations

- Design is too plain and simple.
- Not enough surface area for engraving or cut out designs.



Strengths

- Horizontal panels are aesthetically pleasing.
- Creative use of layout

Limitations

- Not as much space as possible and therefore limits the amount of pattern applicable.
- Doesn't have a dingo fence look and feel.

Strengths

- Vertical panels are aesthetically pleasing.
- Posts are shaped at the top rather than plain

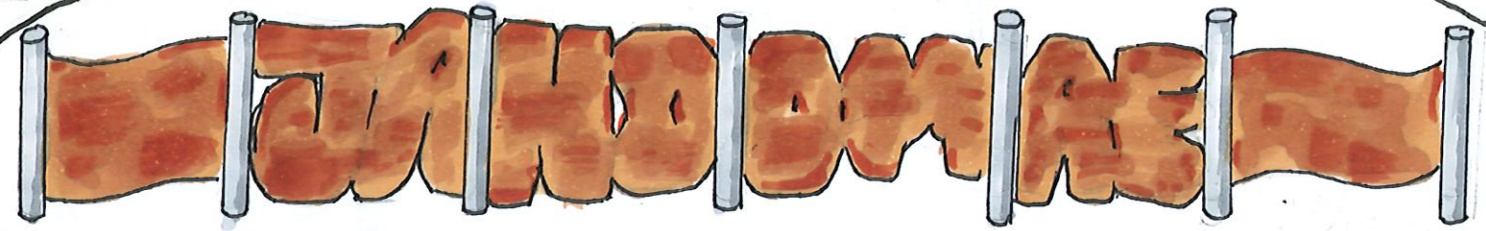
Limitations

- Panels are almost too thin.
- Doesn't have a dingo fence look and feel.



Ideation Sketch

④



- + Free panels on sides give space for patterns and designs
- + Design is safe
- + Doesn't use excessive material
- No Dingo fence look
- Poor choice of font and hard to read

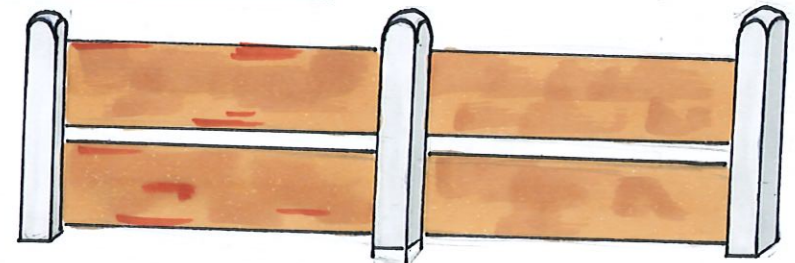
Brief

Design incorporates lettering that spells Jandowae.

Implications

- There may be weak points in the panels and they may break over time

⑤



- + Simplistic design makes it easy to create
- + Design is safe
- + Doesn't use excessive material
- Doesn't have dingo fence feel

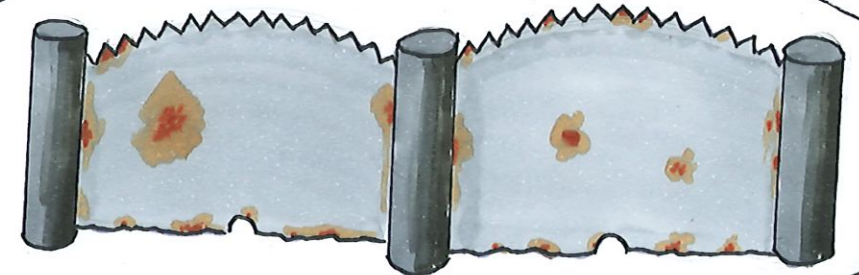
Brief

Design uses two horizontal panels which will be easy to make

Implication

- Grey wood for poles may become dirty

⑥



- + saw blades represent Jandowae's timber industry
- + heaps of space for patterns and other designs
- + rustic look gives fence a dingo fence feel
- blades may be sharp

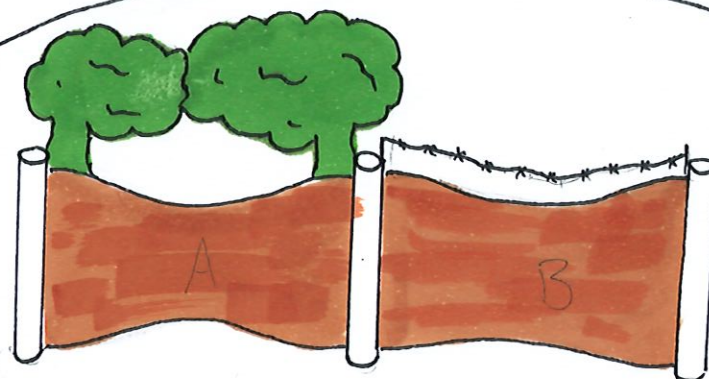
Brief

Fence uses a saw blade type shape to symbolise their timber industry. Rustic look has been used to give it a rural feel

Implications

- The design may rust too much over time
- Safety standards may not allow spikes

②



- + Trees show Jandowae's nature
- + space for patterns in design
- + Barbwire has dingo fence look
- Barbwire is unsafe
- Trees use up extra material

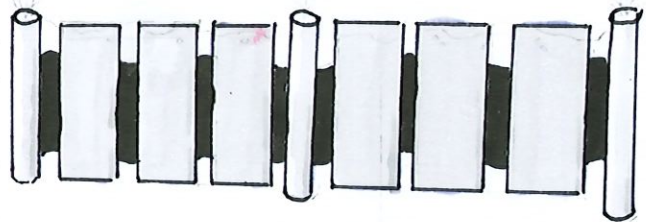
Brief

Design uses a curvy layout with trees and barbwire on top

Implications

- Trees may be unstable and break off in future
- Barbwire may snap over time

①



- + sleek design is aesthetic
- + Vertical panels symbolise trees
- + Design is safe
- More material needed for behind
- No dingo fence look + feel

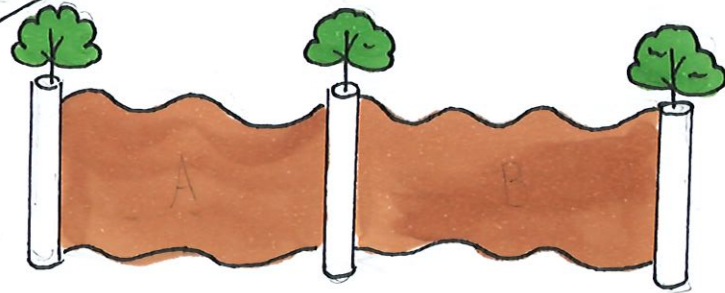
Brief

Design uses vertical panels attached to one horizontal panel on back.

Implications

- colouring may fade over time
- Panels may not be secure in future

③



- + Use of trees in pots is innovative
- + trees show Jandowae's nature
- + Waves are aesthetically pleasing
- May not be able to implement trees
- Doesn't have dingo fence look and feel

Brief

The tree used in pots will provide a natural feel. The fence uses a wavy design

Implications

- Pot plants may die over time
- watering plants may cause rust to posts.

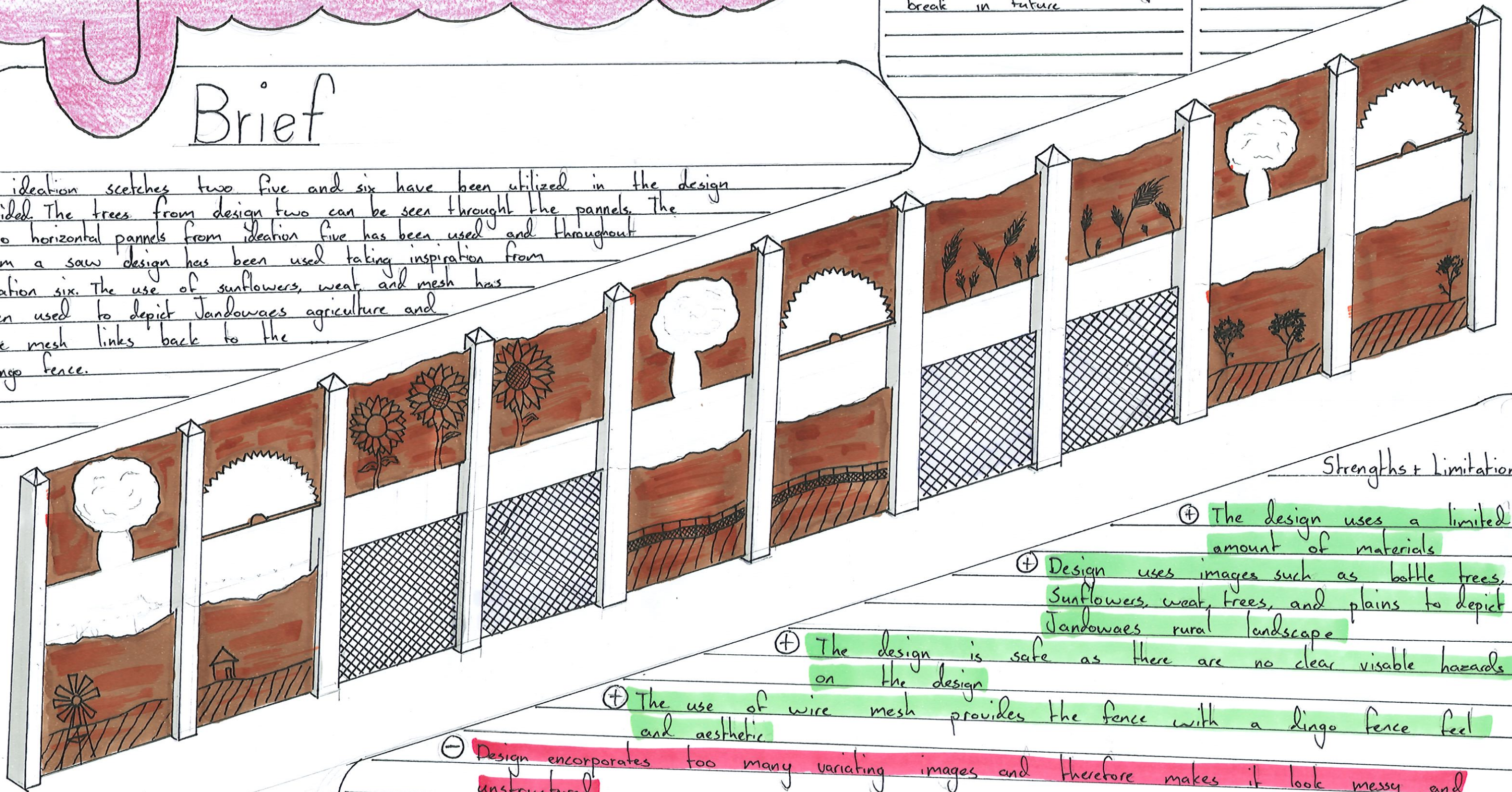
Strengths

Limitations

Synthesis One

Brief

The ideation sketches two five and six have been utilized in the design provided. The trees from design two can be seen through the panels. The two horizontal panels from ideation five has been used and throughout them a saw design has been used taking inspiration from ideation six. The use of sunflowers, wheat and mesh has been used to depict Jandowae's agriculture and the mesh links back to the dingo fence.



Implications

- The mesh part of the fence may break away over time
- Thin parts of metal may break in future

Refinements

To refine the design I could have spread the patterns out equally so that some designs weren't next to each other

Strengths + Limitations

- ⊕ The design uses a limited amount of materials
- ⊕ Design uses images such as bottle trees, sunflowers, wheat, trees, and plains to depict Jandowae's rural landscape
- ⊕ The design is safe as there are no clear visible hazards on the design
- ⊕ The use of wire mesh provides the fence with a dingo fence feel
- ⊖ Design incorporates too many varying images and therefore makes it look messy and unstructured

- Strengths
- Limitations

Synthesis Two

Brief

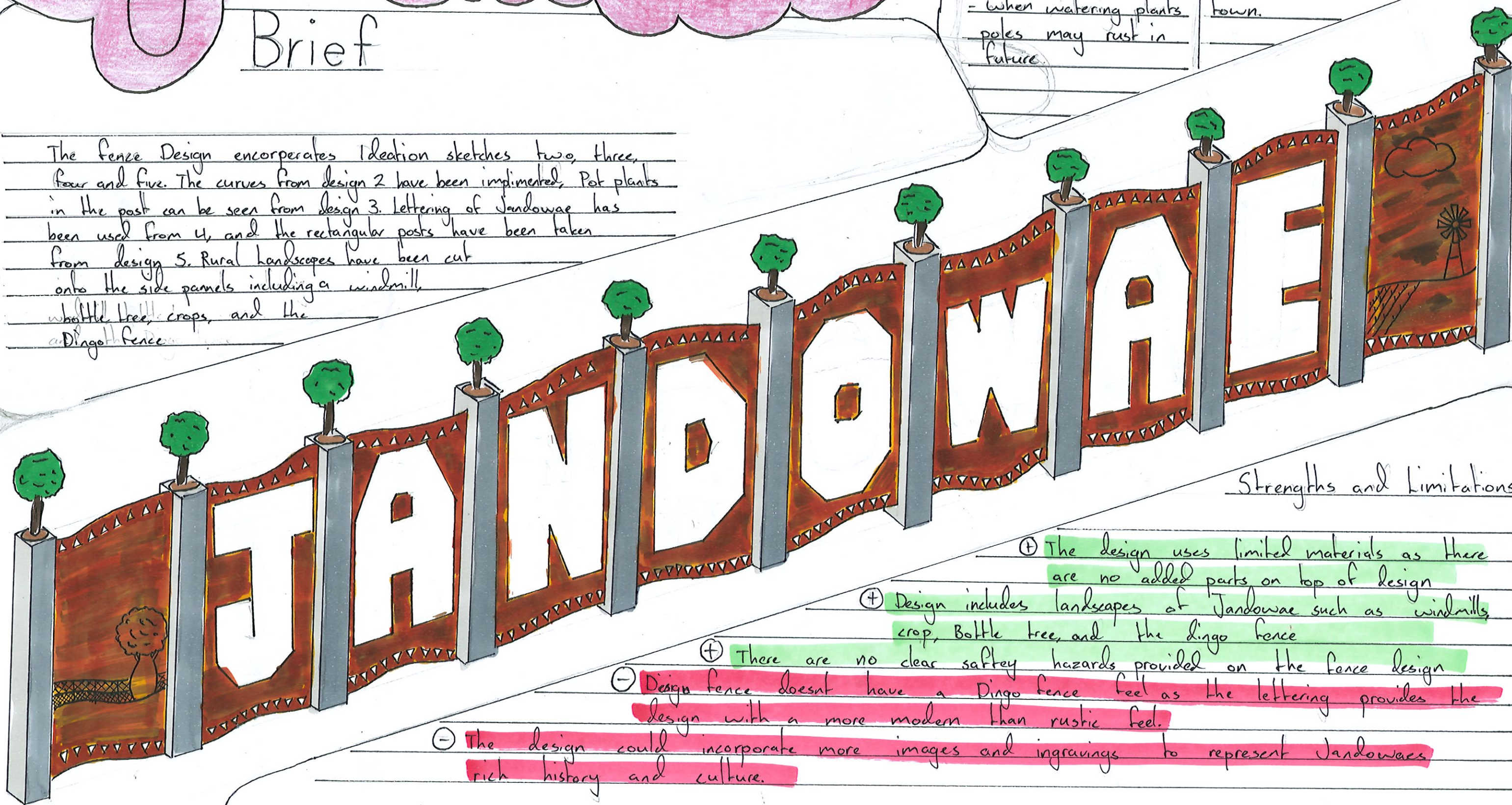
The Fence Design incorporates 1 deation sketches two, three, four and five. The curves from design 2 have been implemented, Pot plants in the post can be seen from design 3. Lettering of Jandowae has been used from 4, and the rectangular posts have been taken from design 5. Rural landscapes have been cut onto the side panels including a windmill, bottle tree, crops, and the dingo fence.

Implications

- The trees on top of the poles may die and need to be replaced
- When watering plants poles may rust in future

Refinements

If I had redone the design I would have used a different font to suit the town.



Strengths and Limitations

- ⊕ The design uses limited materials as there are no added parts on top of design
- ⊕ Design includes landscapes of Jandowae such as windmills, crop, Bottle tree, and the dingo fence
- ⊕ There are no clear safety hazards provided on the fence design
- ⊖ Design fence doesn't have a Dingo fence feel as the lettering provides the design with a more modern than rustic feel.
- ⊖ The design could incorporate more images and engravings to represent Jandowae's rich history and culture.

- Strengths
- Limitations

Synthesis Three

Brief

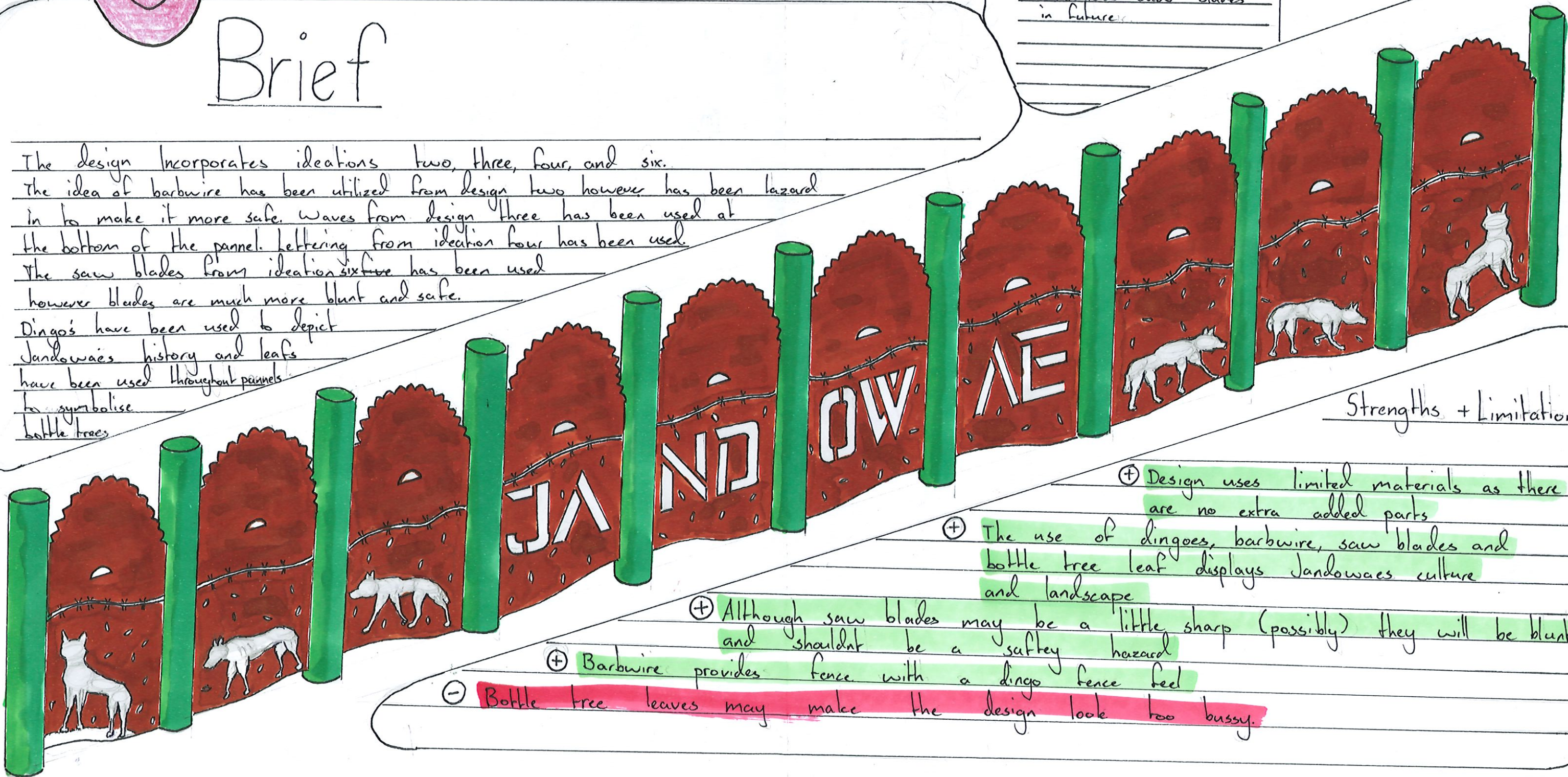
The design incorporates ideations two, three, four, and six.
The idea of barbwire has been utilized from design two however has been lazard in to make it more safe. Waves from design three has been used at the bottom of the pannel. Lettering from ideation four has been used.
The saw blades from ideation six has been used however blades are much more blunt and safe.
Dingos have been used to depict Jandowaes history and leafs have been used throughout pannels to symbolise bottle trees.

Implications

- Some of the thin cut out parts of metal such as around the barbwire may snap over time
- Safety standards may disallow saw blades in future

Refinement

To further improve the design I could have halved the saw blades stretch over two pannels to reduce how busy the design looks



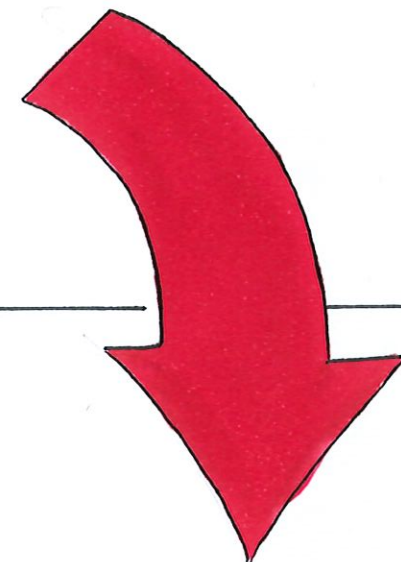
Strengths + Limitations

- ⊕ Design uses limited materials as there are no extra added parts
- ⊕ The use of dingoes, barbwire, saw blades and bottle tree leaf displays Jandowaes culture and landscape
- ⊕ Although saw blades may be a little sharp (possibly) they will be blunt and shouldn't be a safety hazard
- ⊕ Barbwire provides fence with a dingo fence feel
- ⊖ Bottle tree leaves may make the design look too busy.

- Strengths
- Limitations

Prototype Evaluation

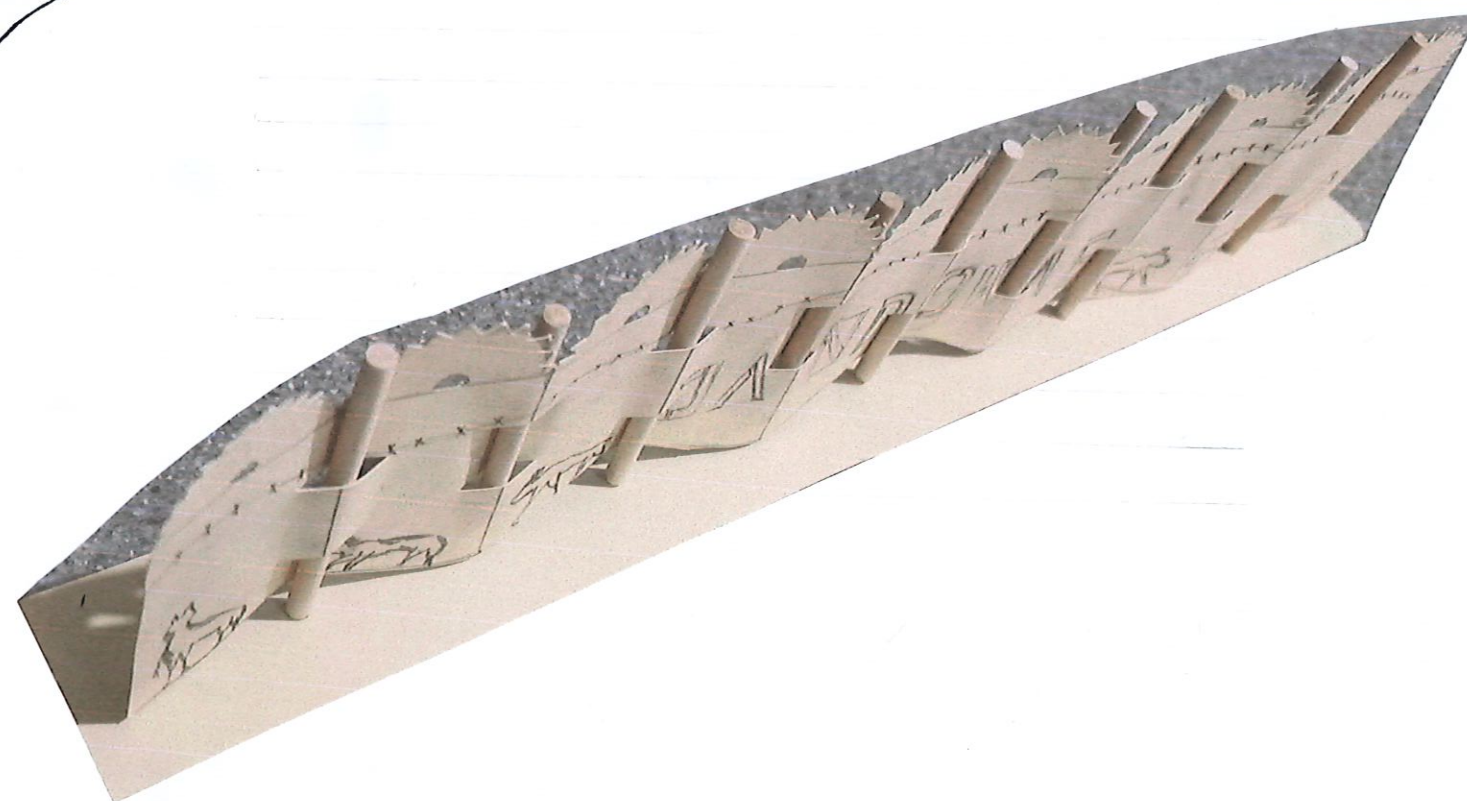
Low Fidelity



The product prototype produced is clearly of low fidelity. This means the fence produced can be greatly improved. This could be done by using other materials of better quality and easier use. As shown on the image the prototype is missing colouring. The prototype is also missing the cut out letters and dingoes. Rather they are just drawn on.

- When creating the prototype I hadn't considered how the pannels were going to be attached so in the end I had to weave the poles through the pannels which wasn't apart of the actual design.

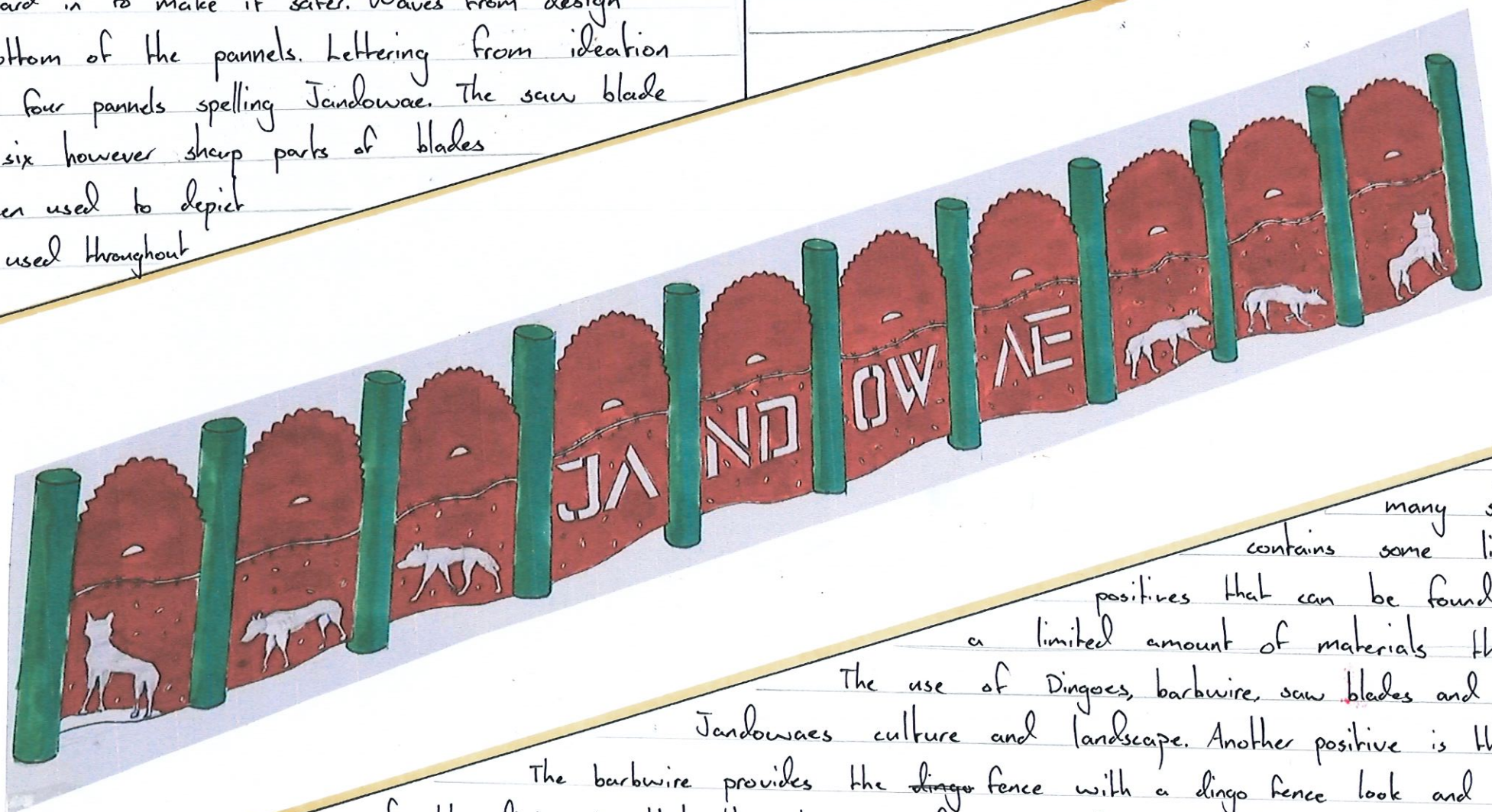
- The prototype produced was made from materials cardboard and wooden sticks.



Evaluation

The fence design incorporates ideations two, three, four and six. The idea of barbwire has been taken from design two and has been implemented into the design, however it has been lazard in to make it safer. Waves from design three have been used at the bottom of the pannels. Lettering from ideation four has been used in the middle four pannels spelling Jandowae. The saw blade idea has been taken from ideation six however sharp parts of blades have been rounded. Dingoes have been used to depict Jandowae's history. Leaves have been used throughout pannels to symbolise bottle trees and their nature

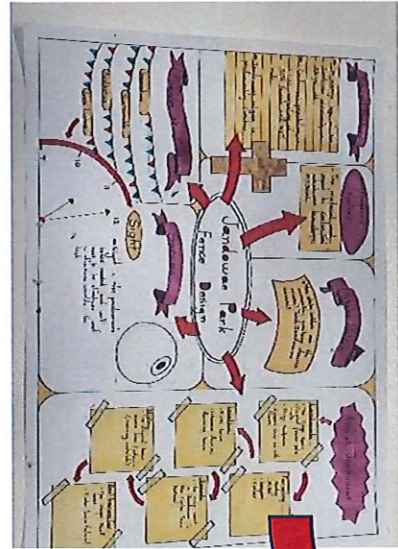
This design was chosen out of the three synthesis ideas as the design was much more aesthetically pleasing. The design incorporates more factors of Jandowae such as dingoes. However, there are some evident refinements that will need to be fixed in future. To further improve the design I could have stretched the saw blades over two pannels over instead of just one. This would have majorly enhanced the aesthetics.



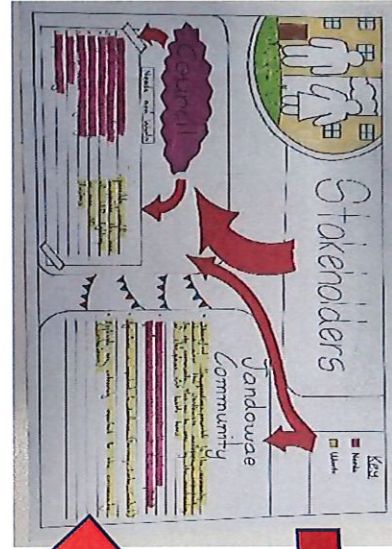
Although the design has many strengths however it also contains some limitations. Some of the positives that can be found is that the design uses a limited amount of materials therefore lowering the costs. The use of Dingoes, barbwire, saw blades and bottle tree leaves depict Jandowae's culture and landscape. Another positive is that the design is safe. The barbwire provides the ~~dingo~~ fence with a dingo fence look and feel. However, the limitation of the design is that the leaves used may make the design look too busy and overall lower the aesthetics of the design.

Support page

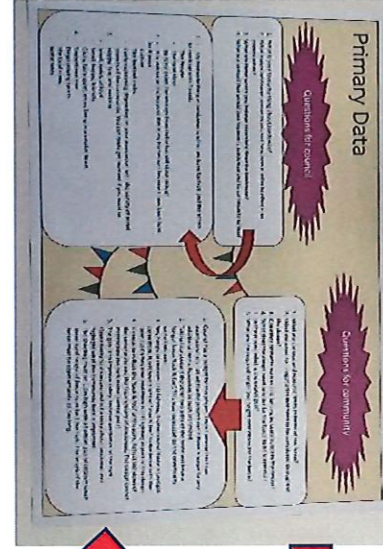
Mind Map



Stakeholder



Primary data



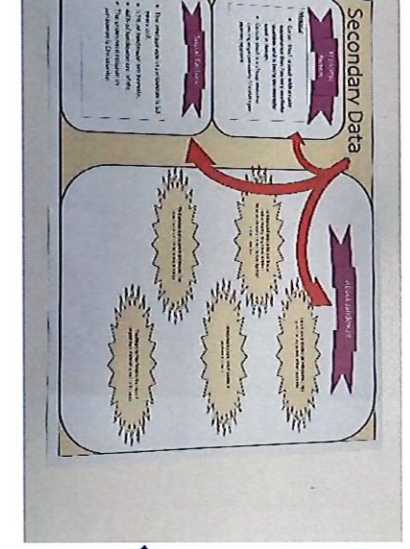
Primary data



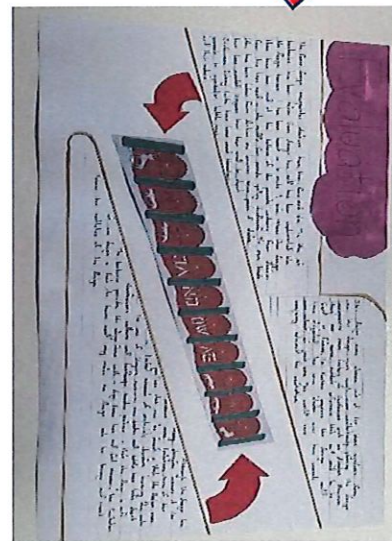
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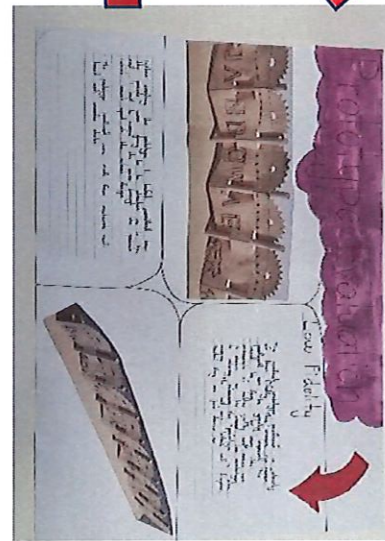
Secondary data



Evaluation



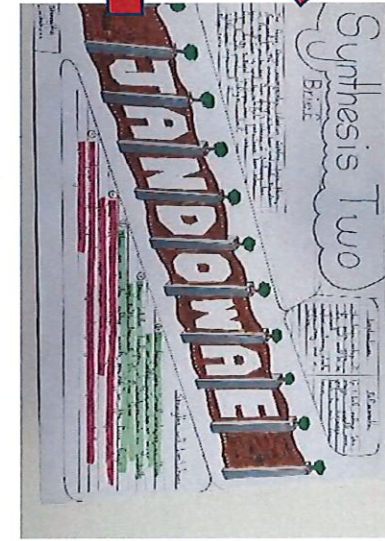
Prototype



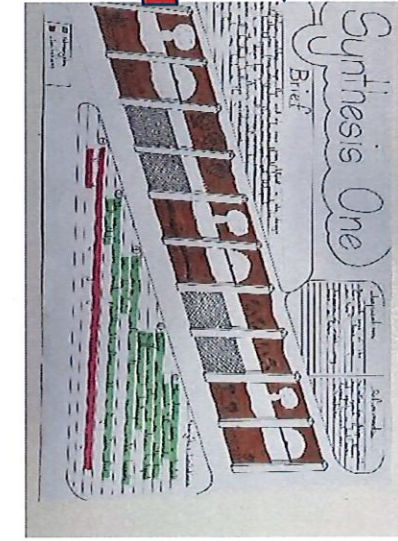
Synthesis Three



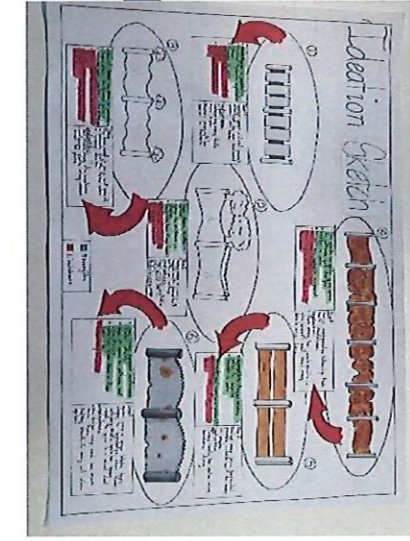
Synthesis two



Synthesis one



Ideation Sketch



Support page

The aim of the project was to produce a fence design for the Jandowae community/council. The fence design will be located in the central park and needed to link back to attributes such as the towns, history, culture and landscape. These are some of the factors that needed to be considered throughout the construction of the design. Throughout the design needs and wants needed to be considered and implemented into the fence. Some of these include how, the fence needed a dingo fence look and feel, how the design needs to incorporate historical and cultural features, and how the safety of the park needed to be improved using the fence. Stakeholders should choose my fence design because the design reflects on Jandowae's culture and beliefs, the design is safe, and it uses a limited amount of resources.