



Shoalhaven City Council

Warden Head Lighthouse Master Plan Report

February 2021

ayling | drury landscape architecture


localé
consulting

Acknowledgment of Country

Locale Consulting acknowledges the local Aboriginal people, the custodians of the land to which this plan applies. We pay our respect to all Aboriginal people of this land and to Elders past, present and future.

locale consulting

T 0419 700 401
A 1/27 River Street Woolgoolga NSW 2456
P PO Box 53 Woolgoolga NSW 2456
E info@localeconsulting.com.au
W www.localeconsulting.com.au
ABN 73 140 973 735

in conjunction with

ayling drury landscape architecture

Document Control

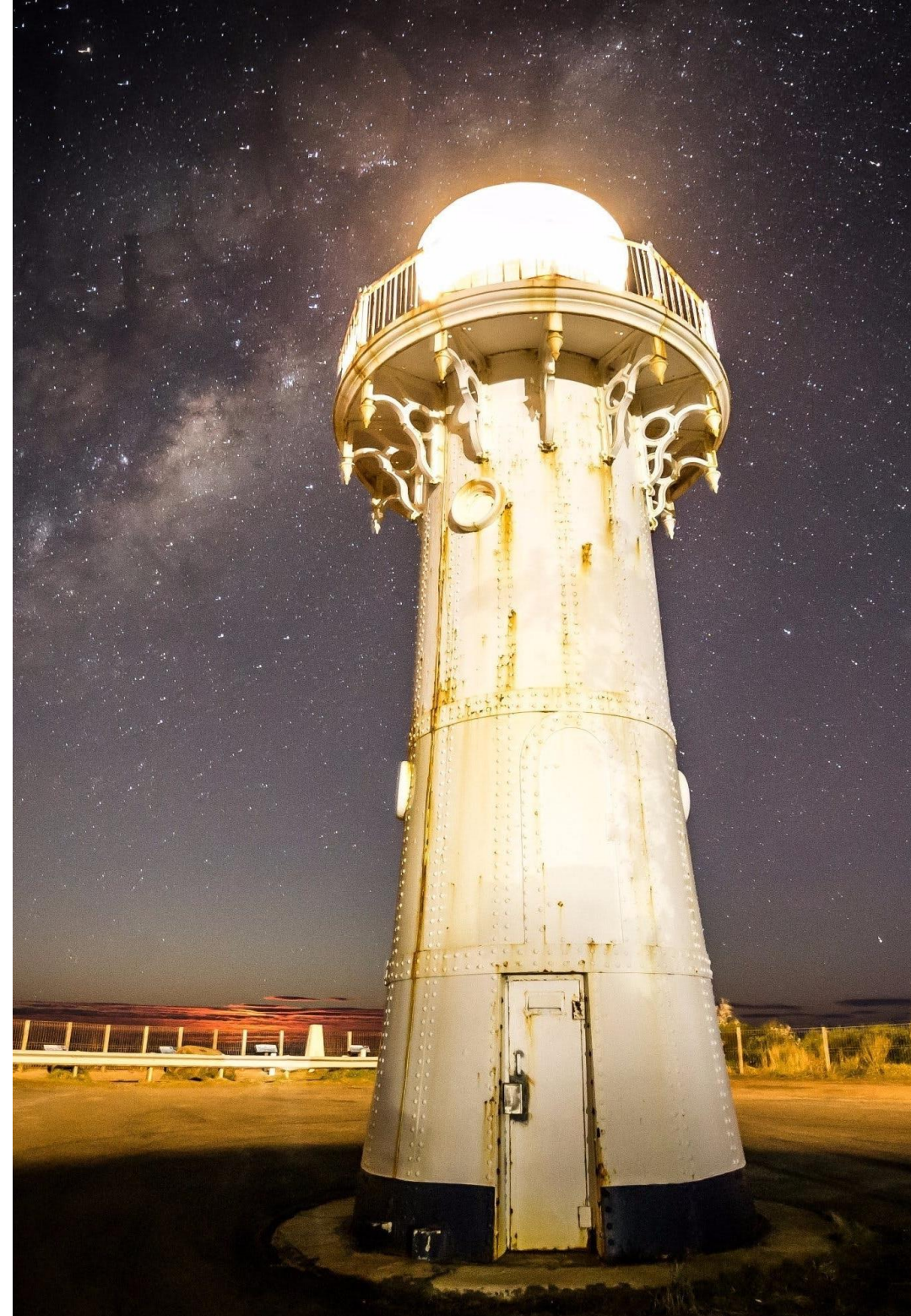
Job Number: 2020/589
Job Name: Warden Head Lighthouse
Client: Shoalhaven City Council
Job Contacts: Carly McWalters - Community Development Officer
Document Name: Master Plan Report

Version	Date	Author	Reviewer	Approved
1	22.12.20	Steve Thompson, Cinnamon Dunsford and Keelan Birch	Stuart Drury, Steve Thompson and Cinnamon Dunsford	Cinnamon Dunsford
2	15.02.21	Steve Thompson, Cinnamon Dunsford and Keelan Birch	Stuart Drury, Steve Thompson and Cinnamon Dunsford	Cinnamon Dunsford
3	18.02.21	Steve Thompson, Cinnamon Dunsford and Keelan Birch	Stuart Drury, Steve Thompson and Cinnamon Dunsford	Cinnamon Dunsford

Disclaimer: Whilst care and diligence has been exercised in the preparation of this report, Locale Consulting Pty Ltd does not warrant the accuracy of the information contained within and accepts no liability for any loss or damage that may be suffered as a result of reliance on this information, whether or not there has been any error, omission or negligence on the part of Locale Consulting Pty Ltd, their employees or sub-contractors.

Contents

1. Introduction	1
1.1 Project Background & Report Purpose	1
2. Site Context	2
3. Consultation Activities	3
4. Consultation Outcomes	4
4.1 Summary of consultation outcomes	5
5. Draft Master Plan	7
5.1 Master Plan Themes	7
Theme 1: Heritage and culture	8
Theme 2: Site activation	10
Theme 3: Natural environment	12
Theme 4: Links to adjoining areas	14
Theme 5: Infrastructure upgrades	16
Theme 6: Vehicle access and circulation	18
6. Project Implementation	20
6.1 Implementation priorities	20
6.2 Land management	20
6.3 Next steps	21
6.4 Monitoring and evaluation	22



Executive Summary

This report accompanies a draft Master Plan that has been developed through a community-led approach in association with the Ulladulla Lighthouse Group. The project is being undertaken in collaboration with the land owner, the Department of Planning, Industry and Environment (Crown Lands), with Shoalhaven City Council also supporting the co-ordination of the process. It builds on the historical, cultural and natural character of the area while simultaneously addressing the need for increased community safety.

Initial community engagement has occurred through face to face and videoconference meetings with a number of key stakeholders, including on-site meetings, phone calls and emails, a community survey, and workshops with the Ulladulla Lighthouse Group. These consultation activities led to the development of several emerging themes associated with the site including:

- Heritage and culture
- Site activation
- Natural environment
- Links to adjoining areas
- Infrastructure upgrades
- Vehicle access and circulation

In turn, these themes have directly influenced the response to the drafting of the Master Plan. Initially, this included the preparation of three Schematic Plan Options that were presented at a workshop to the Ulladulla Lighthouse Group in November 2020. The Group then established further directions for the draft Master Plan as presented within this report.

Following exhibition of this report and the draft Master Plan, submissions and feedback will be reviewed and the Master Plan will be amended as required to provide a platform for implementation.



1. Introduction

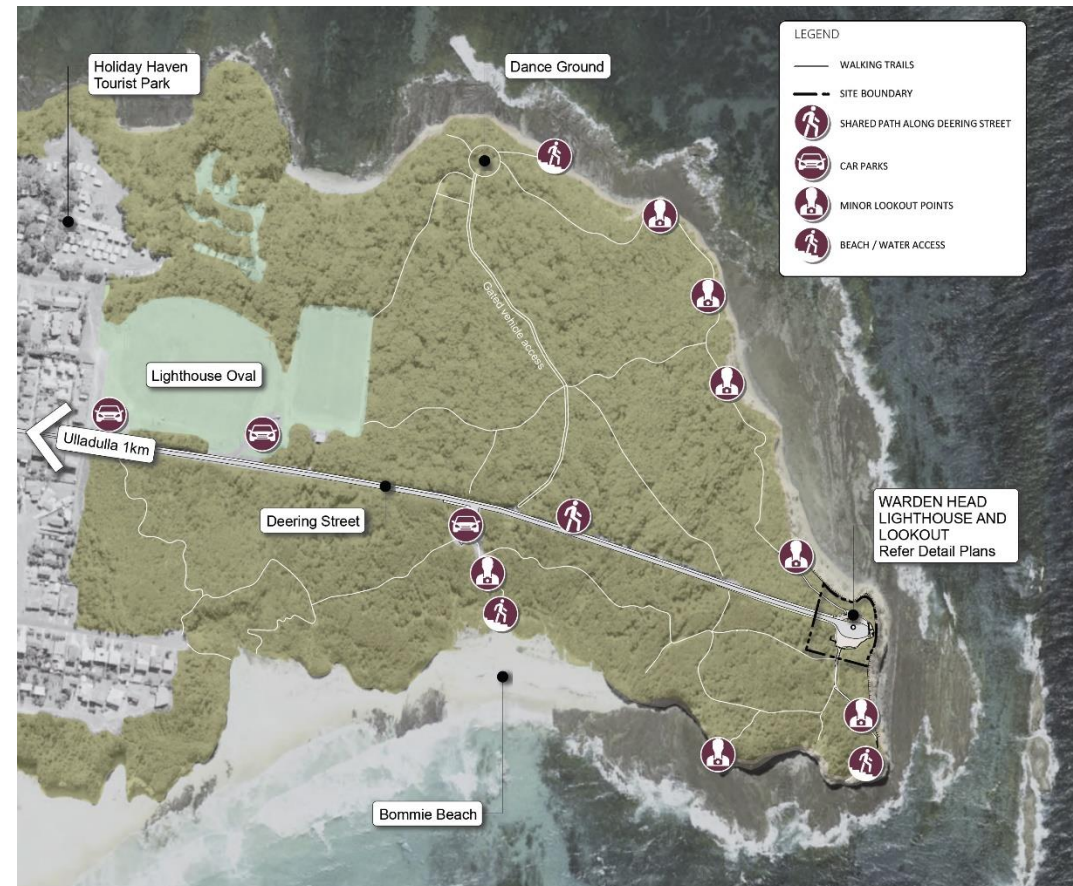
1.1 Project Background & Report Purpose

The purpose of this Master Plan Report is to outline the draft Master Plan design that has resulted from the consultation activities and outcomes for the community-led Warden Head Lighthouse Master Plan project. The Report discusses the Master Plan elements and their context, the key directions and themes, and the implementation plan for the draft Master Plan design.

The project is being undertaken by Ulladulla Lighthouse Group. The project has involved collaboration with many stakeholders, including the site owners, Department of Planning, Industry and Environment (Crown Lands) and Shoalhaven City Council (Council) in the broader context of adjoining land. The project aims to implement substantial community safety improvements at the site whilst building on the historical, cultural and natural character of the area to enhance the coastal space and see its future as a place for recreation and relaxation.

Initial consultation activities were undertaken in August, September and October 2020, alongside regular meetings and discussions with the Ulladulla Lighthouse Group. A detailed workshop with the Ulladulla Lighthouse Group was also undertaken in November 2020. Further community engagement is scheduled for early 2021 regarding the draft Master Plan presented within this report.

The project area is shown in the context of its surrounds in the adjoining plan.



2. Site Context

Situated approximately 2kms from the centre of Ulladulla, Warden Head is an important site for Ulladulla and surrounds, both for its natural, coastal setting and the historic use of Warden Head Lighthouse. The development of a Master Plan for the site is required to address a number of critical issues that concern the site.

This project is part of a collaborative effort by the community to plan for the future of Warden Head with a large number of service providers, community groups and community members highly invested in the area and the ongoing planning for the site. This concerted effort saw the establishment of the Ulladulla Lighthouse Group in 2016 who continue to advocate for and advance the upgrade of the area.

The site is home to the locally heritage listed Warden Head Lighthouse, which is understood to have been built in 1873 as one of only two wrought iron lighthouses in NSW. Funding for the restoration of the lighthouse saw the facility upgraded back to working order in 2018, whilst a proposed second stage of work (the installation of safety fencing by Department of Planning, Infrastructure and Environment (Crown Lands)) has recently been completed.

The subject site is Crown land under the control of the State, with Transport for NSW (Maritime Infrastructure Delivery Office) being responsible for the management and maintenance of the lighthouse infrastructure located centrally on the site. Crown Lands manage the remainder of the project site, whilst Council is the appointed manager of other surrounding natural areas (also owned by the State).

Other improvements in the area include the recent construction of a shared path along Deering Street to Warden Head. The improvement of bush walking tracks in the area are also being planned following the receipt of funding as part of the State Government's Regional Growth Environment and Tourism Fund.



3. Consultation Activities

The Warden Head Lighthouse and lookout area is highly valued and utilised by the local community as well as visitors to the area. In order to capture the variety of stakeholder interests and ideas, a number of consultation activities and review processes were undertaken that led to the development of the draft Master Plan. These included:

- A desktop review of background documents
- Face to face and videoconference meetings with key stakeholders, Council staff, Shoalhaven Safety Liaison Group and the landowner (Crown Lands)
- On-site meetings with key stakeholders and ad-hoc discussions with visitors to the site
- Phone calls and emails to key stakeholders
- Provision of an electronic survey that was open for 2 weeks (from 1 – 15 October 2020)
- Four meetings/ workshops with the Ulladulla Lighthouse Group

The face to face and on-site meetings were undertaken during August and September 2020. The other consultation activities extended throughout August, September and October 2020. Further meetings were also held with the Ulladulla Lighthouse Group in November and December 2020 to establish a draft Master Plan which is the subject of this report.

The consultation outcomes that resulted from this community engagement is outlined in Section 4.



245 Survey responses



40 email discussions with stakeholders



7 onsite meetings/ site visits



35 Phone calls to stakeholders



10 Face to face meetings/ teleconferences

4. Consultation Outcomes

This section provides a summary of the key consultation outcomes, directions and themes that were a direct result of the consultation activities outlined in Section 3.

These consultation outcomes initially informed the preparation of three Schematic Plan Options. These were high level plans designed to test early thoughts for the future design outcomes. They built on and responded to the key issues and opportunities that arose through continual stakeholder consultation and on-site assessments.

The three Schematic Plan Options were then presented to the Ulladulla Lighthouse Group in November 2020 for further consultation. This workshop confirmed the preferred directions for the project and resulted in the development of the draft Master Plan as outlined in Section 5.

The aim of this section is to document information and ideas gained from community consultation that has ultimately informed the design of this draft Master Plan as outlined in Section 5.



4.1 Summary of consultation outcomes

A summary of the consultation outcomes is provided below.

- **A well-utilised, high profile site:** The site is very well utilised by local residents and visitors, with opportunity to make practical improvements whilst retaining the open and natural feel of the space and viewpoints to the ocean. Capturing the importance of the local profile of the space and its relationship and value to the town, residents and visitors / tourists is imperative.
- **A safe and welcoming space:** The incorporation of practical active and passive measures to make the site safe and welcoming is supported by many stakeholders, in the context of also beautifying the space. Suggested measures include site activation options to extend a visitor's time at the site, lighting (e.g. sensor and low impact solar), emergency telephone and signage, curved fencing / balustrades, motion sensors and restricting site access at certain times of the day / night.
- **Formalised and effective access:** Formalising car parking and safe vehicular access / circulation around the site is important due to the area's high levels of regular visitation, including safe access immediately around the lighthouse. Making the site more pedestrian oriented and responding to the historic elements is important. Sealing of the carpark may also be appropriate.
- **Respect the heritage of the site:** The Aboriginal and European cultural heritage values of the space and its connection to the foreshore and adjoining areas is of high value and recognition of this is supported by many stakeholders. Creating a unique location that captures the natural context and integrates Aboriginal / European heritage elements provides a key opportunity.
- **Respect the natural environment:** Protection and restoration of the natural environment is significant given the sensitivity of the coastal landscape. Consultation does however highlight the need to balance this with managing and improving formalised vehicular access and car parking, along with safe pedestrian access / walking trails to and through the site.



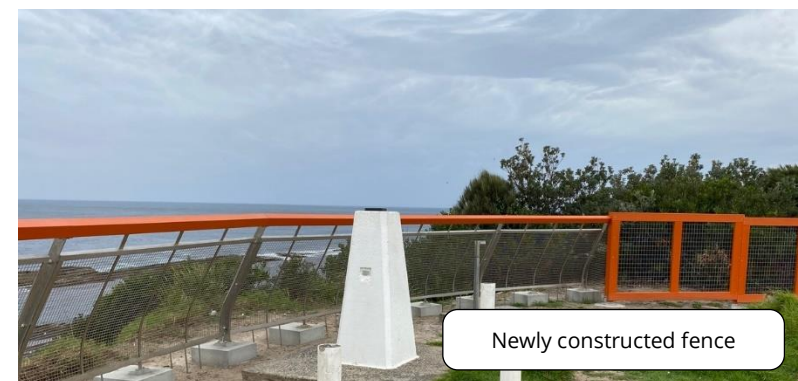
- **Consider the broader context:** The relationship of the site to adjoining sites including Lighthouse Oval, Bommie Car Park and other Warden Head walking trails was important to stakeholders in relation to both infrastructure improvements, access and signage. The Master Plan needs to consider inter-related projects and how these are to be incorporated given the likely increase in the use of the site over time.
- **Physical site considerations:** Further considerations need to be given to site topography, drainage, weed infestation and other physical constraints in the draft Master Plan. This will ensure the space is practical and easily maintained into the future.
- **Infrastructure improvements:** Future infrastructure that is sympathetic to the existing built and natural form is an essential part of creating an area that continues to be highly valued by the local community and visitors. Specific on-site improvements were supported by many stakeholders including:
 - Enhancing viewing areas / platforms
 - Seating / rest areas
 - Rubbish bins
 - Lighting
 - Interpretive / directional signage, and
 - Animal (dog) management.



Improving visitor signage



Connecting to walking tracks



Newly constructed fence

5. Draft Master Plan

5.1 Master Plan Themes

The consultation outcomes as outlined in Section 4, led to the emergence of several key themes for the site. These themes are:

- Heritage and culture
- Site activation
- Natural environment
- Links to adjoining areas
- Infrastructure upgrades
- Vehicle access and circulation

These themes formed the basis for developing Schematic Design Options as a precursor to the full Master Plan. These Schematic Designs were presented to the Ulladulla Lighthouse Group through a workshop and review process to confirm the preferred draft Master Plan directions.

The following sections highlight how the draft Master Plan has responded to these themes and how each has been incorporated.



Theme 1: Heritage and culture

Both European and Aboriginal cultural heritage are important aspects of the site and of high value to many stakeholders. The cultural heritage values of the space extend to the foreshore and into adjoining areas. Creating a unique location that captures the natural context and integrates opportunities for both European and Aboriginal heritage elements is critical.

The past presence of a lighthouse cottage and other items have been considered and interpreted or integrated into this draft Master Plan design. In particular, the lighthouse itself remains the key focal point of the site, allowing its significance to be acknowledged and respected.

Key items of heritage value include:

- Aboriginal connection to the space
- Warden Head Lighthouse
- Previously removed lighthouse residence
- Historic well
- Bicentennial Memorial Rock

Draft Master Plan elements

The draft Master Plan incorporates the following heritage and culture theme elements into the design:

- **Indigenous culture:** An information shelter upon site entry will detail the significance of this area to the local Aboriginal people. The northern and southern entrances to the walking trails will encompass an Aboriginal themed seating wall with a yarning circle style 'cultural node'. At both walking trail entries, this space is proposed to incorporate art installations which

could include totem animals, language and stories of the local Aboriginal people. This may also be a memorial style area – e.g. sea eagle spreading its wings.



- **Warden Head Lighthouse:** The Lighthouse will continue to be one of the key focal points of this area being the most centrally located item within this draft Master Plan design. Low maintenance, concentric circles at ground level will highlight this key aspect of the site and ensure that access around the entirety of the Lighthouse will remain. Interpretive signage will be located as part of the entry shelter.
- **Lighthouse residence:** While the Lighthouse Residence does not currently exist on site, an information shelter will provide interpretation of the original lighthouse residence in location and form. This will also provide interpretive information acknowledging the key role of the lighthouse and the lighthouse keeper, as well as broader interpretive information on cultural and environmental aspects of the site.



- **Historic Well:** The historic well has been incorporated into the design process in a simple way within the central turning circle. Whilst the well will be integrated into the turning circle planting, interpretive information and images are proposed within the information shelter.
- **Bicentennial Memorial Rock:** This item is proposed to be relocated to the planted garden immediately behind the viewing decks. The item will become more centrally located with the space, with interpretative signage providing education and acknowledgement of its significance at Warden Head.

The location of these elements are highlighted in the adjoining plan with further context provided in the full Master Plan at Appendix A.



Theme 2: Site activation

Site activation is recognised as a critical part of creating a positive atmosphere that encourages both residents and visitors to enjoy the site and which then provides passive surveillance for the area.

Enhancing the space for nature based recreational and educational activities plays a key role in achieving this outcome. Key items identified in response to the need for site activation include:

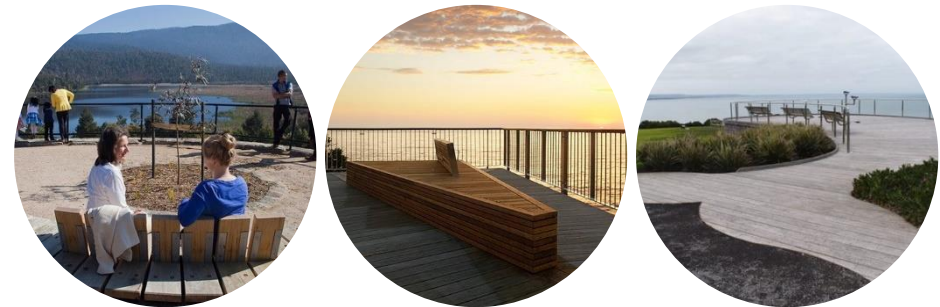
- Provision of welcoming spaces to encourage use
- Connecting to existing walking tracks
- Spaces for group gatherings
- Providing inclusive site use and viewing opportunities
- Informative signage about the site
- Establishing a space for pop-up use (e.g. mobile coffee van)

Draft Master Plan elements

The draft Master Plan incorporates the following site activation theme elements into the design:

- **Space to use:** Rather than solely relying on viewing opportunities to engage with visitors to the site, the Master Plan identifies a number of areas to utilise for viewing, rest and enjoyment of the area, as well as for education and small group gatherings.
- **Connection to walking tracks:** Existing walking tracks located to the north and south of the Lighthouse have been integrated into the draft Master Plan design – including ‘cultural nodes’ at track entry points. These walking tracks lead to further nature based recreational activities such as surfing and fishing, as well as a broader network of trails.

- **Gathering space:** Two large open lawn areas with platform seats, subtle mounding and perimeter planting are proposed to be located immediately west and south of the lighthouse. These two areas provide space for families and groups to spend more time at the site in an informal setting. Smaller gathering spaces are also located at the walking track heads and raised viewing platforms.
- **Viewing opportunities:** Three ocean viewing areas are provided along the eastern side of the site, including a central lookout terrace and raised vantage points to the north and south looking out to the ocean. This provides space and different viewing points to engage with users. Raised platforms to the north and south provide additional elevation over adjoining vegetation, as well as long bench seating that can be used for small group tours and as general rest spots.



- **Interpretive signage:** Appropriate signage is fundamental in creating an informative site that is easy to navigate and highlights its natural, cultural and historical elements. Reinterpretation of the original lighthouse cottage provides weather protection, a dedicated picnic space, as well as opportunities for information and interpretation. This space again provides a long bench seating opportunity for

undercover group discussions, for local school groups and the like. The information shelter, along with other signage opportunities on the site and on adjoining land, will make the space easier to understand and access for all users.

- **Pop-up use:** An option could exist to provide space for an occasional or regular mobile food / coffee van at the site. This again encourages users to stop and enjoy the space, whilst also providing a level of regular passive surveillance over the site. An existing car space in the north-east could be reserved for this purpose to provide safe and accessible convenience for visitors. The lawn areas also lend themselves to community events.



The location of these elements are highlighted in the adjoining plan with further context provided in the full Master Plan at Appendix A.



Theme 3: Natural environment

Warden Head Lighthouse, in its coastal location, is surrounded by stunning natural features in all directions, all whilst being located only 2km from the Ulladulla town centre. The site is therefore frequently visited as a space to experience the natural environment and is a key tourism drawcard. Ensuring improvements are both sympathetic and complementary to the surrounding environment is an essential component of a successful Master Plan. Key items identified in response to the need for consideration of the natural environment include:

- Care of the surrounding sensitive vegetation
- Integrating native vegetation within the site development
- Enabling opportunities for visitors to engage with the natural environment

Draft Master Plan elements

The draft Master Plan incorporates the following natural environment theme elements into the design:

- **Care of existing vegetation:** The surrounding vegetation is of ecological significance, though impacted by previous development of the site, weed infestation and the current ad-hoc parking and access arrangements. The Master Plan design seeks to retain existing vegetation wherever possible, improving interfaces with existing areas to minimise weed infestation and unregulated access.

- **Integrating native vegetation:** The draft Master Plan is designed to balance the built form and its natural surrounds by improving access and encouraging visitation, whilst enabling the surrounding vegetation to integrate with the space. These 'fingers' of plant beds would soften the space, define use areas, enhance environmental links through the site and enhance the visitor experience. These plant beds would be designed as low height, low maintenance feature gardens that maintain visual prominence of the lighthouse. While the removal of some vegetation is required under the proposed design, the intent will be to offset the loss of vegetation with new planting spaces to establish an overarching balance.



- **Engaging with the environment:** Alongside the overarching aim to minimise vegetation loss and balance this with enhanced low height planting areas, it is proposed that interpretive information would also be provided on the native vegetation and marine environment – particularly whales. Interpretive information walls would be provided alongside the raised platforms and within the information shelter.



The location of these elements are highlighted in the adjoining plan, and expressed through the adjoining perspective model. Further context is also provided in the full Master Plan at Appendix A.



Theme 4: Links to adjoining areas

Connecting Warden Head Lighthouse to nearby sites increases the value of not only the Lighthouse but the recreational and nature-based tourism opportunities for the broader locality. This theme is important for a wide variety of users of the space that are both visitors and residents alike. Key items identified in response to the need to link the design into adjoining areas include:

- Creating clear and easily identifiable links to existing walks
- Establishing spaces to benefit tourism needs
- Connecting with facilities on Deering Street

Draft Master Plan elements

The draft Master Plan incorporates the following opportunities to link to adjoining areas within the design:

- **Connections to walking tracks:** Existing walking tracks to the north and south of the lighthouse are important in linking the site to adjoining nature-based recreation areas. As part of the process of seeking to engage visitors with the area, each walkway entrance would have a 'cultural node' or meeting point that could contain art works, interpretation and information on the walks. These are an integral part of the design that recognises the space as being more than just a viewing point. Site improvements will also support the role of the site as a 'rest stop' for walkers.

- **Connecting with tourism opportunities:** As above, the project design seeks to connect with adjoining walks, parts of which are being improved under Council's *Sustainable Tourism Infrastructure Projects* initiative. This includes improvement to the Coomee Nulunga Track where members of the local Aboriginal community undertake guided walks.

The yarning circle type arrangement at walking track entrances of the site provide an opportunity to broaden the spaces used for these walks and to strengthen the overarching connection between the site, nature-based and Indigenous tourism opportunities of the area.



- **Connection to nearby facilities:** Lighthouse Oval is recognised as an important precinct for sport in the Ulladulla area, particularly for soccer and cricket. The draft Master Plan retains and builds upon the existing shared pathway that already exists from the Warden Head to Lighthouse Oval and on to the Ulladulla town centre. Bicycle parking facilities are also integrated to facilitate safe access and security for cyclists.

The location of these elements are highlighted in the adjoining plan with further context provided in the full Master Plan at Appendix A.



Theme 5: Infrastructure upgrades

It is imperative that any future infrastructure is appropriately designed, is robust and is sympathetic to the coastal environment. It must improve general visitor comfort, safety needs and consider the ongoing maintenance that is required. Furthermore, infrastructure at the Warden Head Lighthouse needs to also incorporate passive and active community safety measures. Key items identified in response to the need for infrastructure upgrades include:

- Improved landscaping and pathways
- Raised viewing platforms
- Lighting & CCTV
- Emergency telephone and signage
- Curved fencing / balustrades

Draft Master Plan elements

The draft Master Plan incorporates the following infrastructure upgrade theme elements into the design.

- **Shared and accessible pathways:** The shared path along Deering Street will be retained and extended into the site. Additional shared pathway / spaces (including for emergency and maintenance vehicle access) are incorporated with connections to the adjoining walking tracks, viewing areas and the lighthouse itself. Unlike existing facilities, these will meet inclusive access guidelines, including the provision of two accessible car parking spaces.

- **Viewing areas:** The key attractions of the space are the Lighthouse and the spectacular views over the Pacific Ocean. One at-grade viewing area and two raised viewing platforms are proposed to provide a variety of view opportunities. This provides additional safety from conflicts with vehicles, as well as being appropriately located away from the cliff line. Telescopes and seating are to be installed on the platforms for enjoyment and comfort.
- **Lighting, CCTV and safety information:** New lighting and CCTV with sensors (along with other Smart City technology) can be established within the design, either located on the existing power pole adjoining the lighthouse, and/or in association with the proposed shelter. This provides an additional community safety measure, but also requires ongoing monitoring and maintenance to be undertaken to be effective. The site would otherwise generally be seen as a day-time use area, with lighting working on a sensor basis rather than being on at fixed times. An emergency telephone may also be considered on the outside of the shelter building (or other location on site), with associated information and signage to be installed at the walking trail heads.



- **Fencing:** The recently installed curved / whalebone fencing would be retained as existing, as well as being extended in association with the new raised platforms. The recently installed orange timber framed fencing would however be removed and new muted / natural colour palisade style fencing instead included between the proposed viewing areas and both the northern and southern walking trails. This would be designed as more discrete style of fencing that will be located within/behind vegetation so as to reduce its visual prominence whilst maintaining safety.

The location of these elements are highlighted in the adjoining plan, and expressed through the adjoining perspective model. Further context is also provided in the full Master Plan at Appendix A.



Theme 6: Vehicle access and circulation

Warden Head Lighthouse is a popular attraction both for residents and visitors as it provides expansive views over the Pacific Ocean and is a great location for whale watching. With its popularity comes the need to manage vehicle access to the site and to provide for car parking in a safe and effective way. Key items identified in response to the need to accommodate vehicle access and parking include:

- Appropriately designed carparking layout and manoeuvrability
- Adequate carparking space
- Traffic calming devices
- Vehicle and pedestrian safety
- Improved accessibility and inclusiveness

Draft Master Plan Elements

The draft Master Plan incorporates the following vehicle access and circulation elements into the design:

- **Access and parking area layout:** The proposed access and carpark arrangements are designed to be sympathetic to the existing landscape whilst meeting appropriate standards. This includes a total of 24 perpendicular spaces and three long vehicle parking spaces. A turning circle with a 10 metre radius and one-way traffic flow configuration around a planted island containing the historic well ensures access is maintained, but at a slow and safe speed.

During peak periods, it is likely that the use of parking at the Bommie car park or Lighthouse Oval may be required, with the shared-user path then providing direct access to the site.

- **Traffic calming:** The straight long-distance approach along Deering Street provides a direct line of sight to the lighthouse, a view corridor that is retained. However, as the approach reaches the project area, Deering Street is realigned with a slight bend and an entry sign to acknowledge the pedestrian area, reduce speeds and provide directional information. Traffic calming devices (speed humps) will also be placed along the road on entry to the car park to reinforce the need for reduced speeds.



- **Vehicle and pedestrian safety:** The carpark will be designed to take advantage of the newly constructed footpath along Deering Street as a direct connection to extend into the site. This generally provides an opportunity to immediately access the pathway and create safe separation between vehicles and pedestrians. Three long-vehicle spaces to the south would need to cross Deering Street to access this path though the numbers of these and familiarity with the site given the need

to approach and turn at the turning circle means that there is already a reduced risk. Signage to advise of limited long-vehicle access and parking can also be installed at the main approach intersections to the site or at the Bommie car park.

- **Accessibility and inclusiveness:** Two accessible parking spaces are provided at the entry area of the site, ensuring a high degree of direct access for those with reduced mobility. This immediately enables at-grade and inclusive access through to the viewing platforms, shelter and track head areas.

The location of these elements are highlighted in the adjoining plan with further context provided in the full Master Plan at Appendix A.



6. Project Implementation

6.1 Implementation priorities

To ensure that the project can be progressed in the short-term, those elements that are identified as being easily maintained and of greatest benefit to visitors and community safety are of the highest priority. Overall, the project has been divided into two potential stages to be considered in the context of project funding and the need for broader management needs to be resolved before some project elements can be established. The indicative staging therefore includes:

- Stage 1: Construct basic functional space and access requirements including:
 - new viewing areas (including raised platforms)
 - associated safety fencing (whalebone and palisade)
 - pedestrian and vehicle access arrangements
 - walking trail head spaces including seating
 - native planting and turfed open space areas
- Stage 2: Construct additional information and interpretive information including:
 - Information shelter and associated interpretation information / signage
 - Lifeline signage, emergency phone, sensor lighting, CCTV and other Smart City technology
 - Cultural interpretation / public art installations
 - Platform seats within turfed areas
 - Telescopes and/or additional viewing facilities

As identified further below, Crown Lands have noted their limited capacity to carry out ongoing maintenance of the site. Accordingly, the design of the draft Master Plan has incorporated features that minimise maintenance requirements through materiality and design responses.

The draft Master Plan does however enable vehicular access to the lighthouse and viewing areas for both Transport for NSW – Maritime Office and for emergency services access and this will be maintained through the proposed Stage 1 works.

6.2 Land management

Warden Head Lighthouse is located on NSW Government owned Crown land – being the Warden Head Lighthouse Reserve. The site is managed by the Department of Planning, Industry and Environment (Crown Land). Maintenance of the lighthouse is carried out by Transport for NSW - Maritime Office and they will continue to require access to the facilities for maritime purposes.

It is recognised that Crown Lands has limited maintenance budget / capability in the area and have requested that improvements be of a high durability and low maintenance to assist in ensuring that the area is easily maintained. It may also be necessary for agreements to be established between Crown Lands and others to assist in day-to-day maintenance needs. Examples may include the involvement of the local Rotary branch that have had extensive involvement in the project to date. Opportunities may also exist for others to be associated with

the maintenance of safety signage and emergency phones, as well as local art and interpretation facilities.

It is also noted that part of the proposed master plan works (e.g. car parking and diversion of Deering Street) is located within the adjoining Ulladulla Sea Pool, Lighthouse Oval Reserve. This Reserve is Crown land under the management of Council.

6.3 Next steps

The draft Master Plan and this report represent Stage 4 of the overall Warden Head Lighthouse Master Plan project. The next stage of the project will include public exhibition of the draft Master Plan and further consultation activities to be undertaken at the site.

Consideration will then be given to submissions and feedback received as part of the exhibition and consultation processes and the final version of the Master Plan will be prepared. The final version of the Master Plan report will then be presented to the Ulladulla Lighthouse Group, the Department of Planning, Industry and Environment - Crown Land and Shoalhaven City Council for concurrence to implementation.

6.4 Monitoring and evaluation

A successful Master Plan will meet the aims set out by the Ulladulla Lighthouse Group in improving the site. These aims are in essence:

- An increase in public safety associated with the precinct
- An incremental increase of the utilisation of the site as a popular recreational area, and
- To respond to social, recreational and environmental factors that are associated with the site.

To track whether these aims are successfully achieved over time, an Evaluation Plan will be developed to assist in the ongoing evaluation of site outcomes following the implementation of the Master Plan.

The Evaluation Plan is to include a number of ways of reporting on the effectiveness of the Master Plan in a clear, consistent and concise way. The data to be used in this evaluation would preferably be captured immediately before the implementation of the Master Plan, and 6 months, 1 year, 3 years after and every subsequent 5 years after implementation.

It is anticipated that the monitoring process will be undertaken by the Ulladulla Lighthouse Group or associated entities.



Appendix A – DRAFT MASTER PLAN DRAWINGS

Warden Head Lighthouse Master Plan

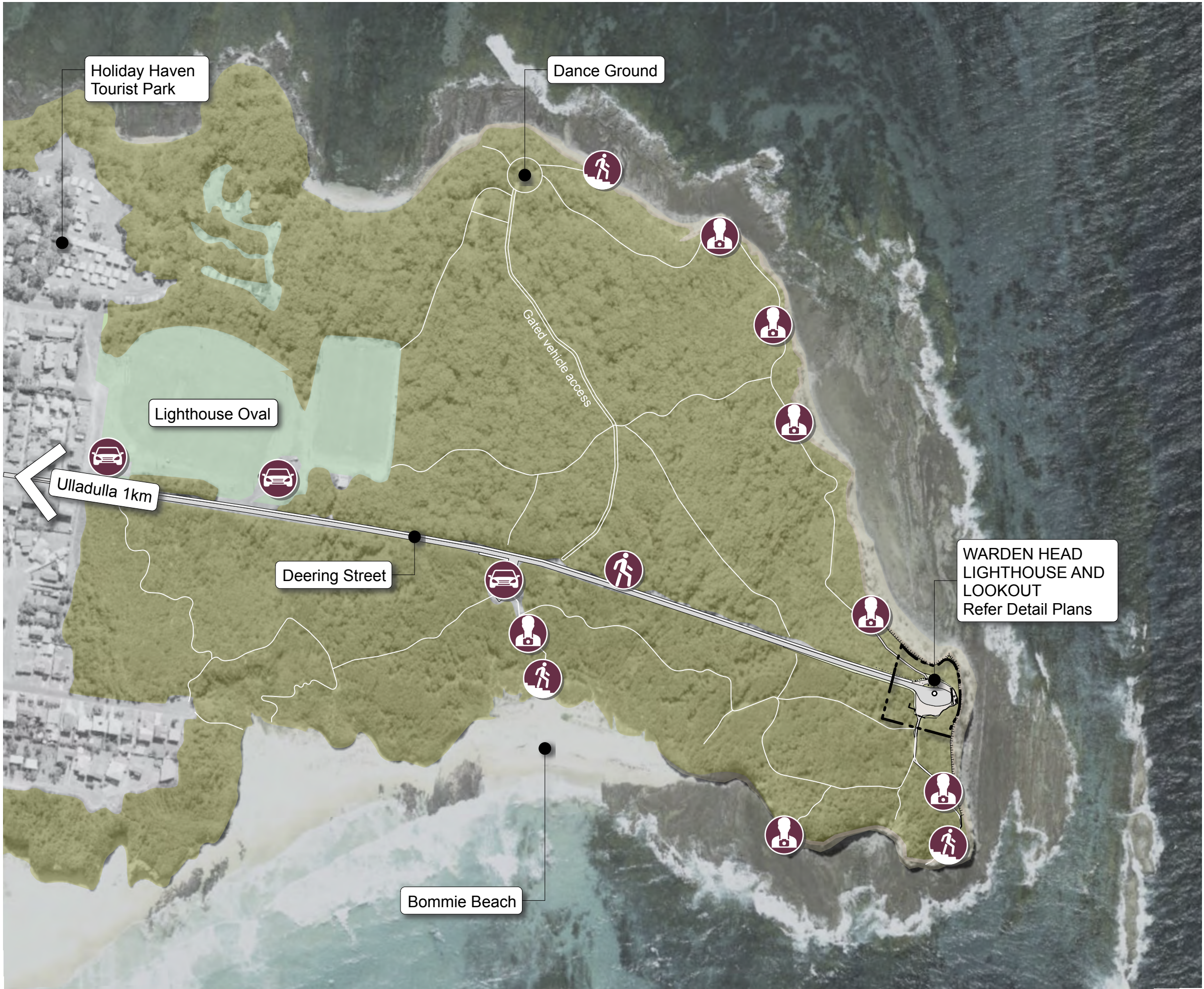
February 2021



DRAWING SCHEDULE

- | | |
|-----------------------|-----------------------------------|
| 01 Title Sheet | 05 Indicative Sections |
| 02 Locality Plan | 06 Indicative Perspectives |
| 03 Existing Site Plan | 07 Schedules and Character Images |
| 04 Site Master Plan | |

February 2020: Rev A: 15.02.21



LEGEND

- WALKING TRAILS
- - SITE BOUNDARY
- SHARED PATH ALONG DEERING STREET
- CAR PARKS
- MINOR LOOKOUT POINTS
- BEACH / WATER ACCESS

Locality Plan

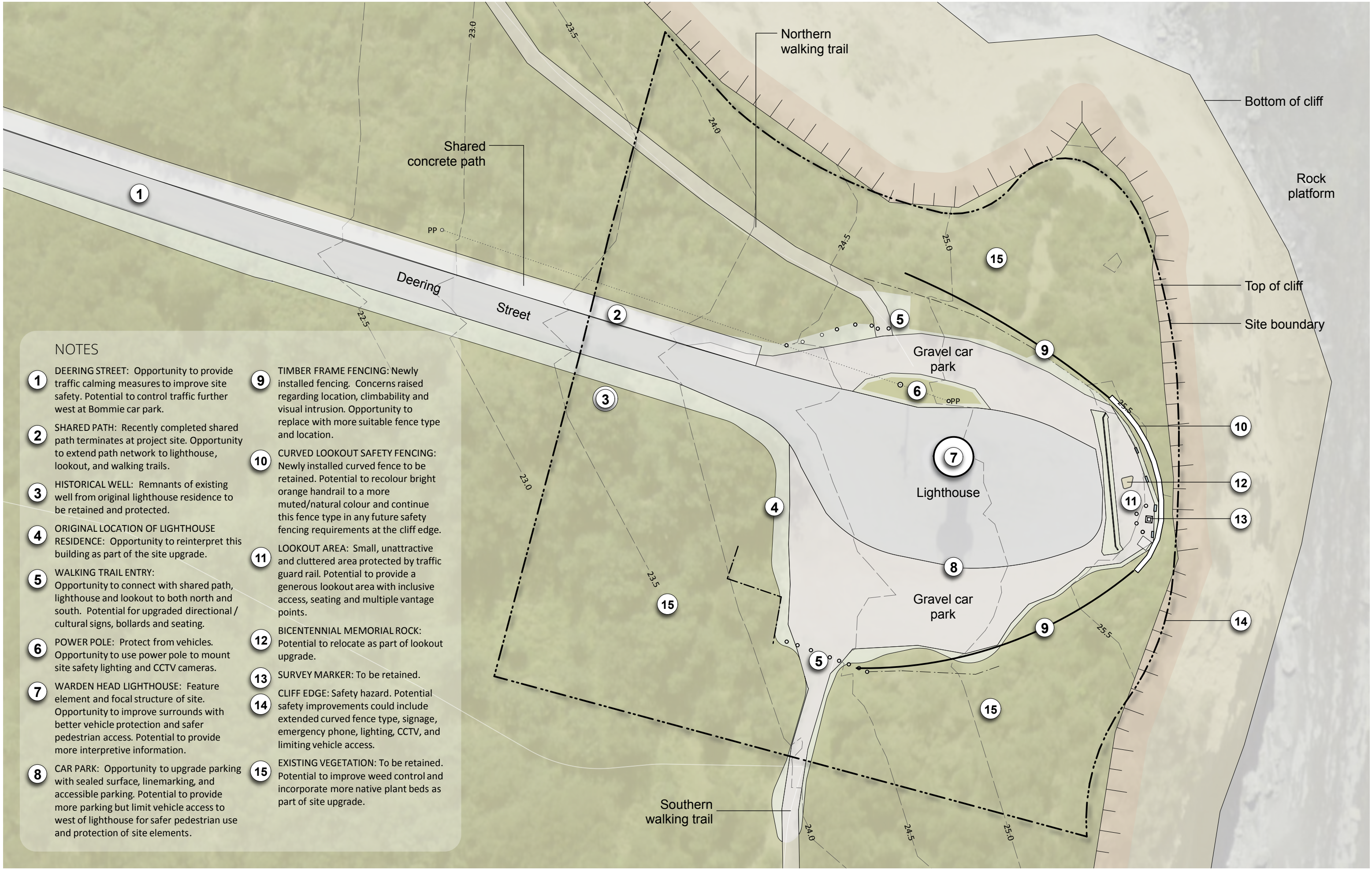


February 2021
Scale 1:400@A3



ayling drury landscape architecture

Warden Head Lighthouse Master Plan



Existing Site



February 2021
Scale 1:400@A3



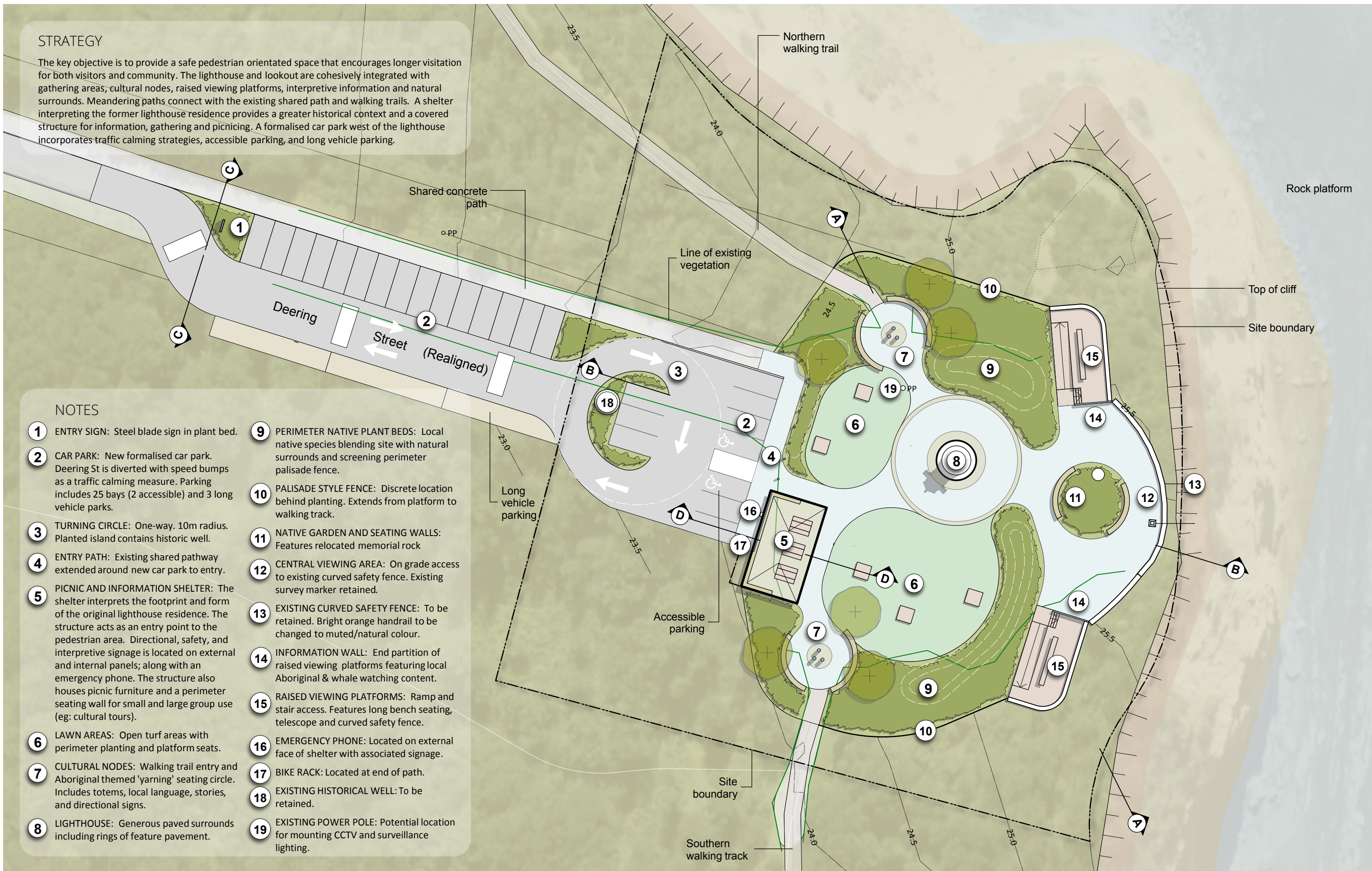
ayling drury landscape architecture

STRATEGY

The key objective is to provide a safe pedestrian orientated space that encourages longer visitation for both visitors and community. The lighthouse and lookout are cohesively integrated with gathering areas, cultural nodes, raised viewing platforms, interpretive information and natural surrounds. Meandering paths connect with the existing shared path and walking trails. A shelter interpreting the former lighthouse residence provides a greater historical context and a covered structure for information, gathering and picnicing. A formalised car park west of the lighthouse incorporates traffic calming strategies, accessible parking, and long vehicle parking.

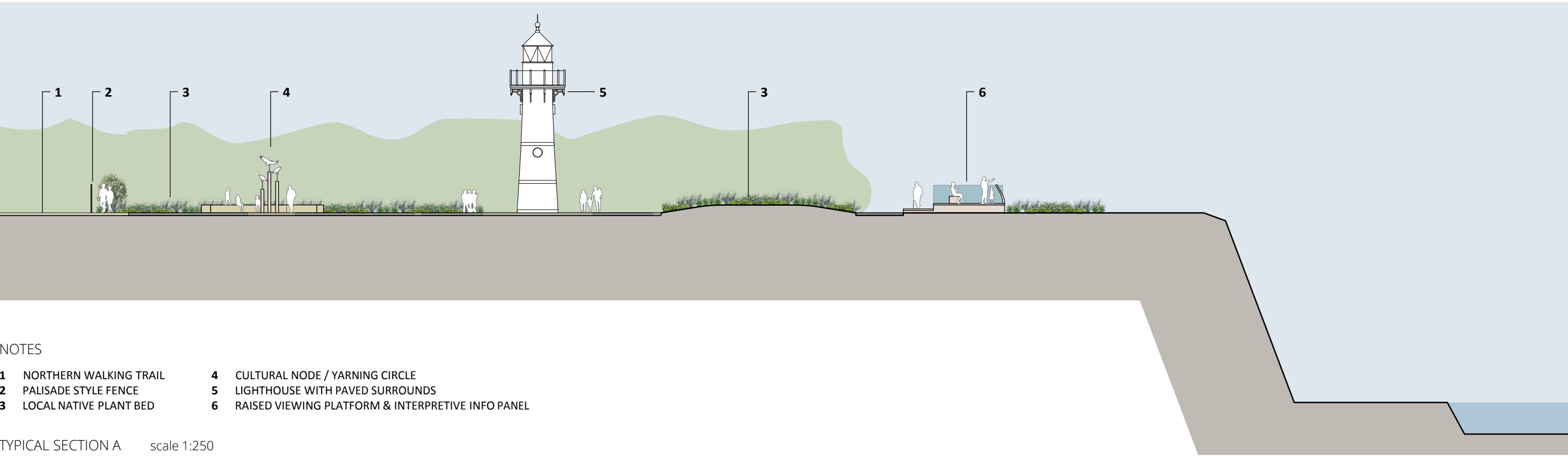
NOTES

- 1** ENTRY SIGN: Steel blade sign in plant bed.
- 2** CAR PARK: New formalised car park. Deering St is diverted with speed bumps as a traffic calming measure. Parking includes 25 bays (2 accessible) and 3 long vehicle parks.
- 3** TURNING CIRCLE: One-way. 10m radius. Planted island contains historic well.
- 4** ENTRY PATH: Existing shared pathway extended around new car park to entry.
- 5** PICNIC AND INFORMATION SHELTER: The shelter interprets the footprint and form of the original lighthouse residence. The structure acts as an entry point to the pedestrian area. Directional, safety, and interpretive signage is located on external and internal panels; along with an emergency phone. The structure also houses picnic furniture and a perimeter seating wall for small and large group use (eg: cultural tours).
- 6** LAWN AREAS: Open turf areas with perimeter planting and platform seats.
- 7** CULTURAL NODES: Walking trail entry and Aboriginal themed 'yarning' seating circle. Includes totems, local language, stories, and directional signs.
- 8** LIGHTHOUSE: Generous paved surrounds including rings of feature pavement.
- 9** PERIMETER NATIVE PLANT BEDS: Local native species blending site with natural surrounds and screening perimeter palisade fence.
- 10** PALISADE STYLE FENCE: Discrete location behind planting. Extends from platform to walking track.
- 11** NATIVE GARDEN AND SEATING WALLS: Features relocated memorial rock
- 12** CENTRAL VIEWING AREA: On grade access to existing curved safety fence. Existing survey marker retained.
- 13** EXISTING CURVED SAFETY FENCE: To be retained. Bright orange handrail to be changed to muted/natural colour.
- 14** INFORMATION WALL: End partition of raised viewing platforms featuring local Aboriginal & whale watching content.
- 15** RAISED VIEWING PLATFORMS: Ramp and stair access. Features long bench seating, telescope and curved safety fence.
- 16** EMERGENCY PHONE: Located on external face of shelter with associated signage.
- 17** BIKE RACK: Located at end of path.
- 18** EXISTING HISTORICAL WELL: To be retained.
- 19** EXISTING POWER POLE: Potential location for mounting CCTV and surveillance lighting.



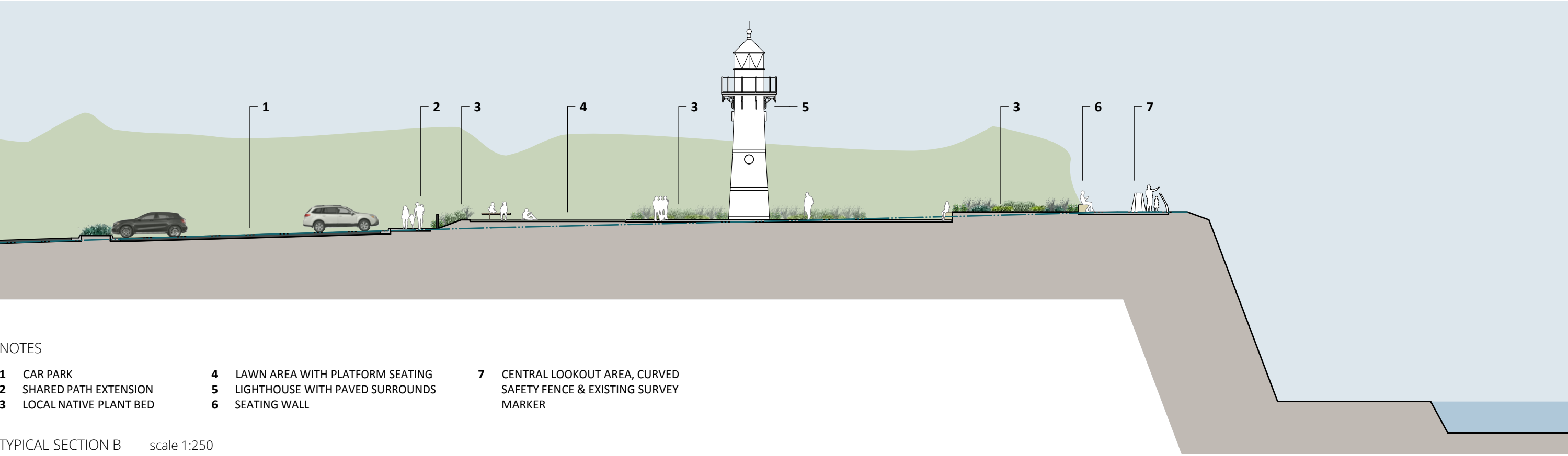
Master Plan





- NOTES
- | | | | |
|---|------------------------|---|---|
| 1 | NORTHERN WALKING TRAIL | 4 | CULTURAL NODE / YARNING CIRCLE |
| 2 | PALISADE STYLE FENCE | 5 | LIGHTHOUSE WITH PAVED SURROUNDS |
| 3 | LOCAL NATIVE PLANT BED | 6 | RAISED VIEWING PLATFORM & INTERPRETIVE INFO PANEL |

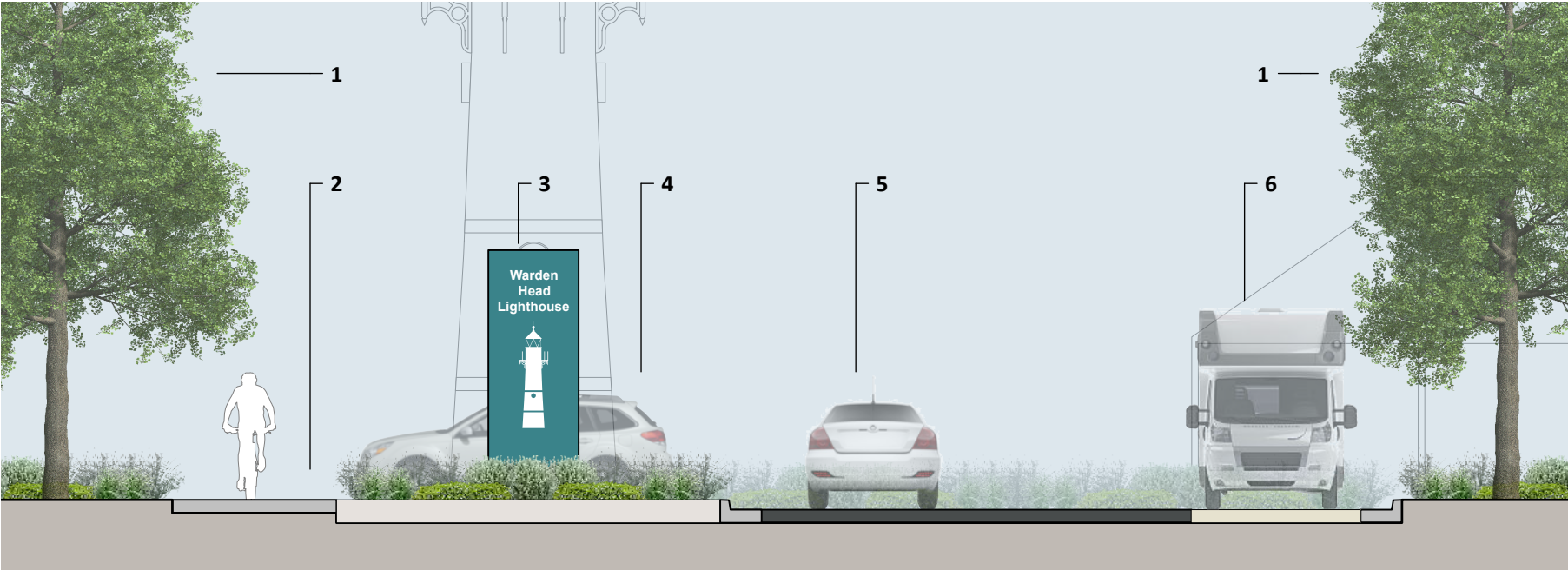
TYPICAL SECTION A scale 1:250



- NOTES
- | | | | | | |
|---|------------------------|---|---------------------------------|---|--------------------------------|
| 1 | CAR PARK | 4 | LAWN AREA WITH PLATFORM SEATING | 7 | CENTRAL LOOKOUT AREA, CURVED |
| 2 | SHARED PATH EXTENSION | 5 | LIGHTHOUSE WITH PAVED SURROUNDS | | SAFETY FENCE & EXISTING SURVEY |
| 3 | LOCAL NATIVE PLANT BED | 6 | SEATING WALL | | MARKER |

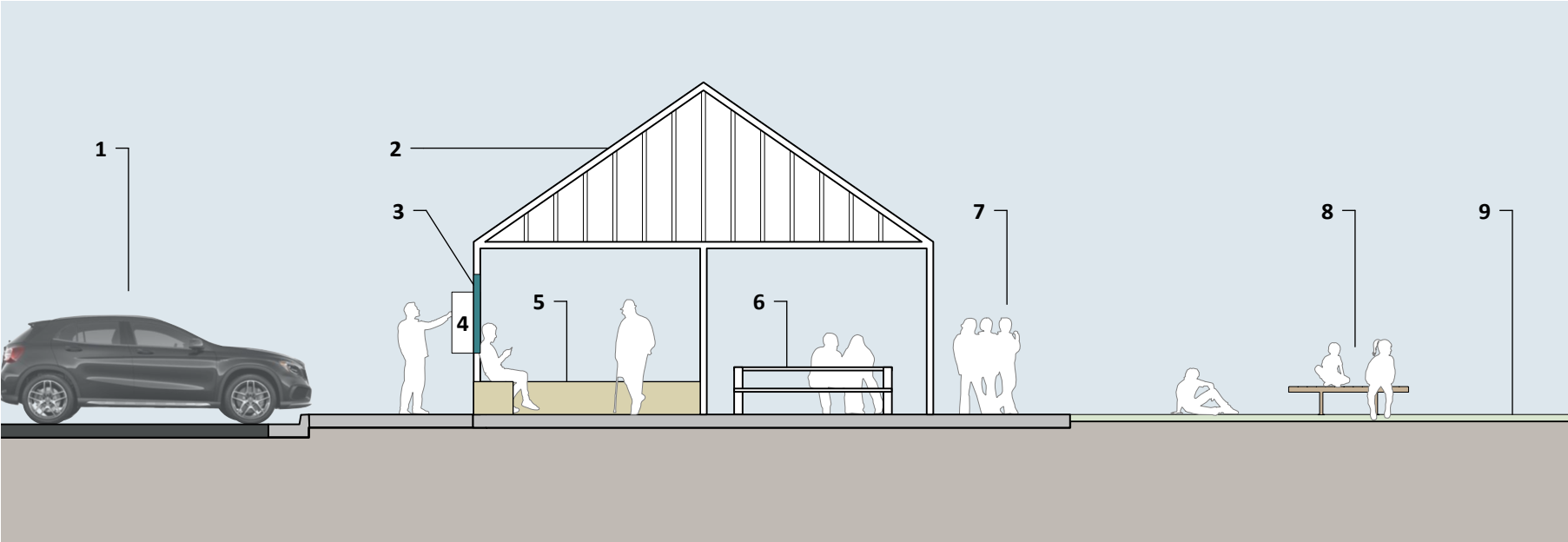
TYPICAL SECTION B scale 1:250

Long Sections



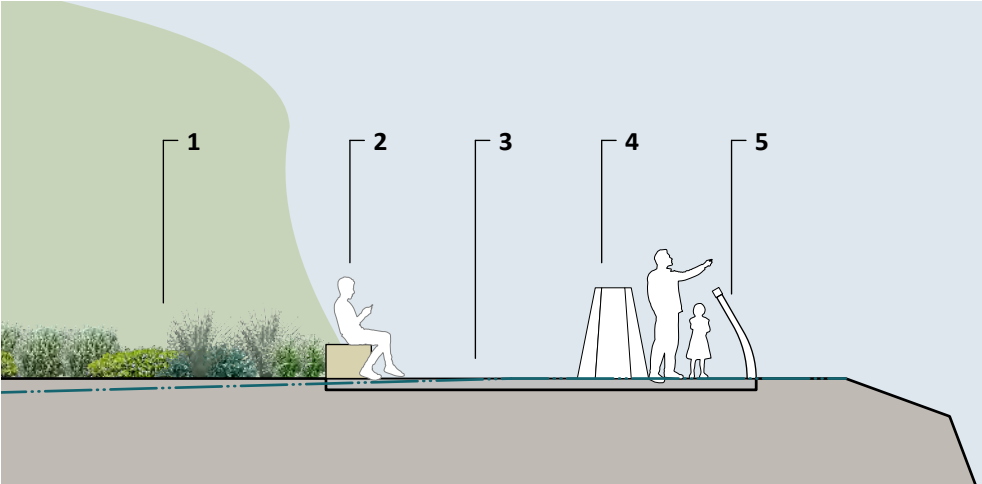
- NOTES
- | | | | |
|---|------------------------|---|----------------------|
| 1 | EXISTING BUSHLAND | 4 | STANDARD CAR PARKING |
| 2 | EXISTING SHARED PATH | 5 | CAR PARK ENTRY |
| 3 | ENTRY SIGN & PLANT BED | 6 | LONG VEHICLE PARKING |

TYPICAL SECTION C scale 1:100



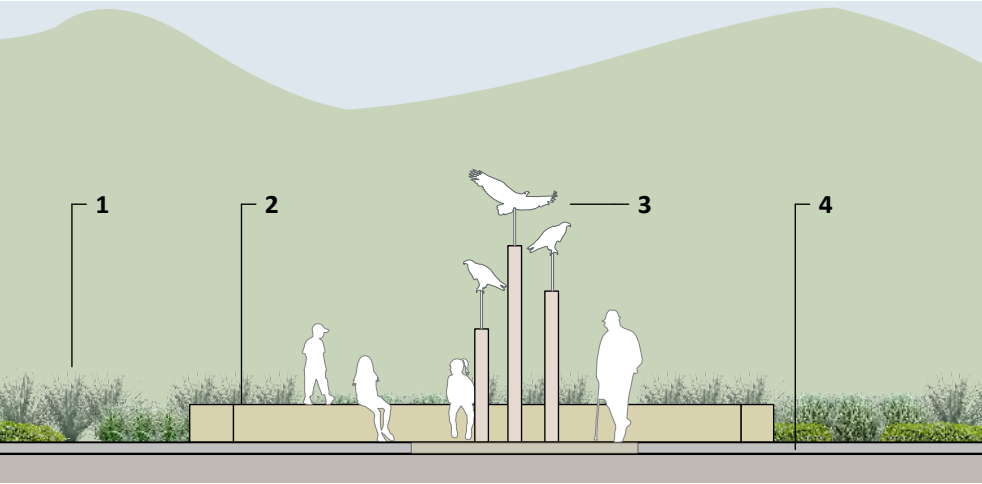
- NOTES
- | | | | | | |
|---|---|---|----------------------|---|------------------|
| 1 | CAR PARK | 4 | EMERGENCY PHONE | 7 | PEDESTRIAN PATH |
| 2 | 'LIGHTHOUSE RESIDENCE' SHELTER | 5 | MASONRY SEATING WALL | 8 | PLATFORM SEATING |
| 3 | DIRECTIONAL AND INTERPRETIVE SIGNAGE PARTITIONS | 6 | PICNIC FURNITURE | 9 | LAWN AREA |

TYPICAL SECTION D scale 1:100



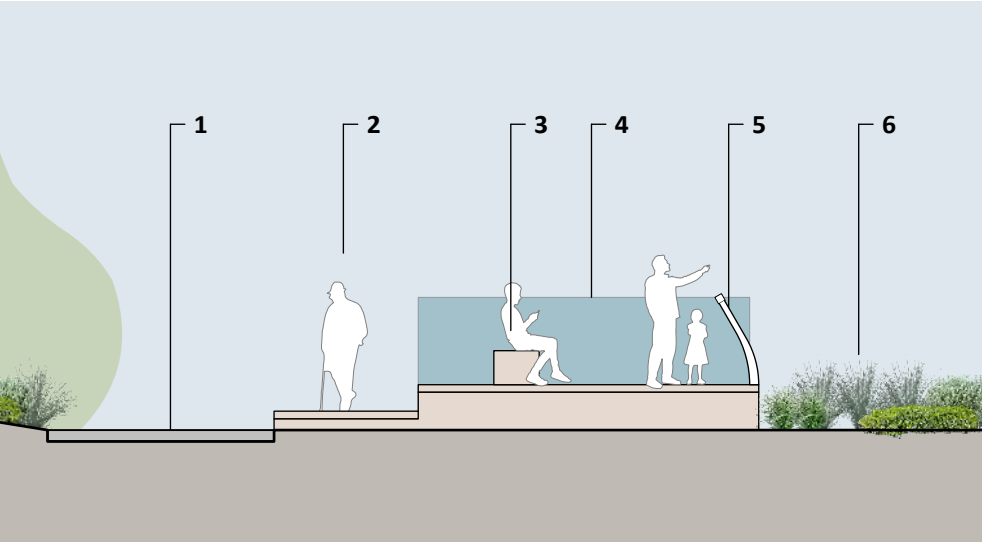
TYPICAL SECTION - CENTRAL LOOKOUT AREA scale 1:100

- NOTES
- | | |
|---|------------------------------|
| 1 | NATIVE PLANT BED |
| 2 | SEATING WALL |
| 3 | CONCRETE TERRACE |
| 4 | EXISTING SURVEY MARKER |
| 5 | EXISTING CURVED SAFETY FENCE |



TYPICAL SECTION - CULTURAL NODE scale 1:100

- NOTES
- | | |
|---|--|
| 1 | NATIVE PLANT BED |
| 2 | SANDSTONE / CONCRETE CURVED SEATING WALL |
| 3 | CULTURAL TOTEMS & INFORMATION |
| 4 | CONCRETE PATH |



TYPICAL SECTION - RAISED VIEWING PLATFORM scale 1:100

- NOTES
- | | |
|---|---|
| 1 | CONCRETE PAVEMENT |
| 2 | RAMP ACCESS |
| 3 | LONG BENCH SEAT |
| 4 | INTERPRETIVE INFORMATION PANEL (eg: whale watching content) |
| 5 | CURVED SAFETY FENCE |
| 6 | EXISTING HEATHLAND |

Typical Sections



NORTHERN RAISED VIEWING PLATFORM (northeasterly view)



NORTHERN CULTURAL NODE (southerly view)



CENTRAL VIEWING AREA (southerly view)



PEDESTRIAN ENTRY (southeasterly view)



OVERALL SITE (easterly view)



OVERALL SITE (southerly view)



SHELTER AND LAWN AREA (northwesterly view)



SHELTER AND LAWN AREA (northeasterly view)



CAR PARK ENTRY (easterly view)

Perspectives



LIGHTHOUSE FOCAL POINT



CURVED SAFETY FENCE



SHELTER & LAWN AREA



MEANDERING PATHS



LIZARD TOTEM SYMBOL



LOMANDRA



PANORAMIC VIEWS



PALISADE FENCE



SHELTER WITH INTERPRETIVE PANELS



CURVED SEATING WALL



SEA EAGLE MOTIF THEME



DIANELLA



DEERING STREET



EMERGENCY SIGNS



SHELTER INFORMATION



SANDSTONE SEATING WALL



CULTURAL TOTEM



MELALEUCA



EXISTING WALKING TRAIL ENTRY



EMERGENCY PHONE



ENTRY SIGN



PLATFORM SEAT



CULTURAL STORIES



CROWEA



EXISTING SAFETY FENCE



COFFEE / FOOD VAN



RAISED VIEWING PLATFORMS



COVERED PICNIC FURNITURE



LIGHTHOUSE RESIDENCE



WESTRINGEA

Character Images

localé consulting

ayling  drury landscape architecture