

# SENIORS HOUSING

LOT 1 DP 780801, WINDWARD WAY, MILTON, NSW

VISUAL ANALYSIS SUMMARY REPORT

April 2018



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# Introduction

## Background

This Visual Analysis Summary Report has been prepared by Scape Design on behalf of Aansca Property Group for submission to Shoalhaven City Council (SCC), for a Development Application for a multi-residential seniors housing facility in Milton, NSW. The proposal has been designed by Stephen Jones Associates.

We have undertaken an assessment of built form and landscape context and character to gain an understanding of the potential impacts on shared views from medium to long-range viewpoints potentially resulting from the proposal.

A previous proposal for the site was lodged in 2005. Many of the associated documents have formed the background for the new proposal and where additional detail is not required as part of this study or where the proposal has not changed significantly, reference is made back to these previous reports.

## Location

Milton is a suburb located within the Shoalhaven City Council (SCC) Local Government Area (LGA), situated 220 kilometres (km) south of Sydney and 7 km north west of Ulladulla on the South Coast of New South Wales (NSW). The site is located approximately 2 km south east of the Milton township, close to the Princes Highway near the intersection with Slaughterhouse Road and an existing caravan park. Windward Way forms the site's southern edge.

## Study Area

The study area, which is dominated by two local ridge lines, can broadly be described as cleared, fairly open rural land with pockets of regrowth vegetation and large remnant "paddock" trees. The visual and character assessment has included review of the immediate surrounding area including the distinct township of Milton to the north and adjacent rural-residential properties to the south, east and west. The towns of Mollymook and Ulladulla have generally not been considered as they are more urban and coastal in context.

BELOW. Site viewed from Windward Way, looking north east. Source: Tim Mooney Photography



## Purpose

This report has been undertaken to assist with an overall assessment of the development by the consent authority and other interested parties. This report has not been prepared for the purpose of Land and Environment Court judgements.

## Reference Documents

The following documents have been reviewed for the preparation of this report:

- A. *Planning principles and consistency of decisions, Part 3: Planning principles on the assessment of view impact*. Talk delivered by Dr John Roseth, Senior Commissioner, Land and Environment Court of New South Wales to the Law Society's Local Government and Planning Law Seminar on 15 February 2005
- B. Visual and Landscape Constraints Report, Richard Lamb and Associates, 2005
- C. *Preliminary Flora and Fauna Report and Ecological Constraints Analysis*, Bushfire + Environmental Services, 2005
- D. *Rezoning Application Report*, Sd Masterplan, 2005
- E. *EIA N04 Practice Note: Guidelines for Landscape Character and Visual Impact Assessment V2.0*, Roads and Maritime, 2013.

This report should be read in conjunction with the following documents:

- A. Architectural DA report and drawings by Stephen Jones Associates, revision D, dated 02/04/2018
- B. Civil Concept Design drawings by Greenview Consulting, revision D, dated April 2018
- C. Landscape Architecture drawings by Zenith Landscape Designs, revision C, dated 19/04/18
- D. Visual Assessment drawings VA.01-09 included with this Report.

# Site Analysis

## Site Context

The study area primarily comprises a fairly open rural paddock set within two local ridge lines, with a local gully/creek located in the north of the site. The southern boundary of the site comprises a vegetated ridge line followed by Windward Way, which services two rural-residential properties, while the northern boundary is defined by Warden Way, an unformed road. To the west lies the Milton Tourist Van Park and the Princes Highway. To the west of the site, the rural lands continue, albeit in a less vegetated state.

Notable features of the site include a derelict concrete grain silo and a planted hedge-row located near the two existing properties on Windward Way, two distinct vegetated areas to the north and south, a caravan park to the west and a small gully/creek in the north east corner of the site. A derelict propagation shed lies close to Windward Way and an existing power line runs north south across the site.

Milton is a town in the South Coast region of New South Wales, within the City of Shoalhaven. It was founded in 1860, however early settlers are known to have resided in the area since about 1827. Milton is one of the two main commercial centres of the Milton-Ulladulla district, and has a population of about 1,500 people. It is a popular stopping place for travellers on the Princes Highway South Coast tourist route and as such benefits from tourism. The town has seen recent growth due to an increase in people wanting to live in the area as opposed to bigger cities to enjoy the benefits of the town and region. Several new housing estates are being developed on the fringes of the village and new stores, cafes and bed and

breakfast type businesses have recently opened in the town. The town is classified with the National Trust due to many fine examples of buildings from the mid nineteenth century.

Prior to European settlement, the area was inhabited by the Yuin People, a local Aboriginal tribe who's land extends from Kiama to Eden, who made use of the areas abundant natural resources.

A google earth aerial photo of the site and its context appears below. Refer to visual analysis drawing VA01 and VA02.

## Character of the Study Area

The study area is characterised by a distinct combination of natural and cultural features resulting from the interaction of humans and nature since occupation by Aboriginal and non-Aboriginal cultures. These interactions primarily include clearing of vegetation, grazing and other agricultural activities and relatively minor construction activities. Regrowth of vegetation contributes to the site's character and in the last 10 years, significant regrowth has occurred.

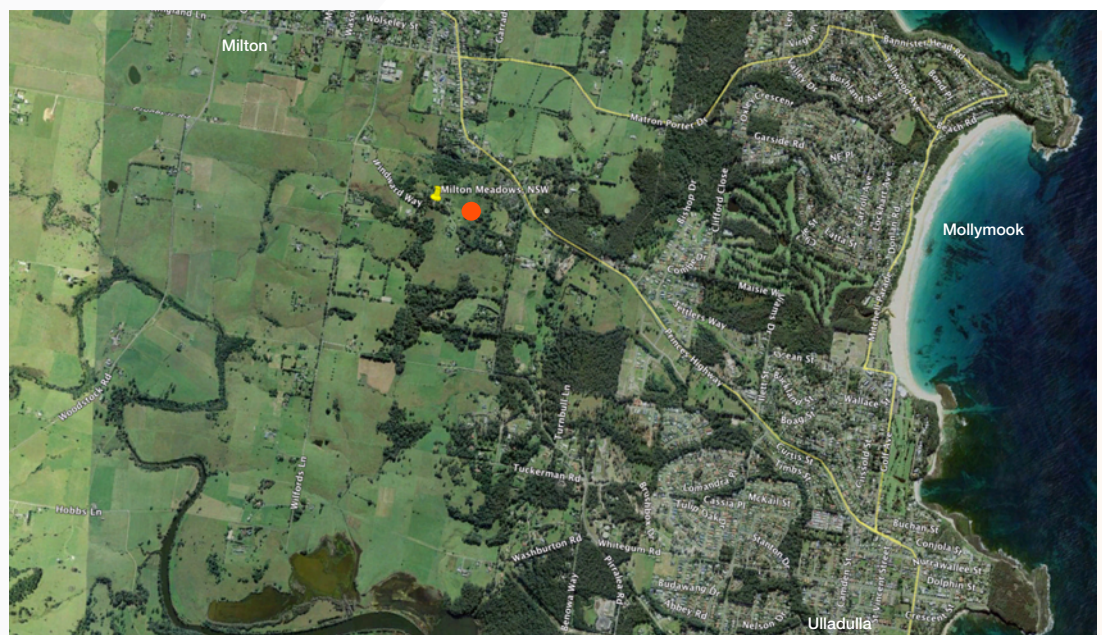
Four key character zones have been interpreted through a process of visual inspection and desktop studies. These character zones are described on drawing VA02 and comprise the following:

- A. Vegetated areas
- B. Pastoral areas
- C. Low density development
- D. Roads and streetscapes.

Classification of these zones has enabled an understanding to be gained of site and site elements and assists with setting a basis for the visual analysis undertaken in the next chapter of this report.

### LEGEND.

● Site location



RIGHT. Site location



## Topography and Hydrology

The topography of the study area, comprises gently rolling hills with local ridge-lines and gullies. Elevation across the site ranges from it's lowest point at the gully/creek in the north eastern corner at approximately 50 m above sea level (a.s.l), to about 75 m.a.s.l near the existing silo on the southern boundary at Windward Way.

Overland flow drains off the Windward Way ridge towards the north east, once in the creek, water flows to the north west towards Milton, before turning sharply to the south where it enters Burrill Lagoon and eventually the Pacific Ocean south of Ulladulla about 4 km from the site.

## Vegetation and Soils

The site consists of one primary soil type being the Permian Shoalhaven Group - comprising siltstone, sandstone, shale and conglomerate (Ulladulla 1:250000 Geological Series Sheet S1 56-13) and one primary vegetation type being the Milton-Ulladulla Subtropical Rainforest. A mixture of remnant and regrowth species are scattered across the site. Dominant tree species are Blackbutt (*Eucalyptus pilularis*), Turpentine (*Syncarpia glomulifera*), Bangalay (*E. botryoides*), and Sydney Peppermint (*E. piperita*), to a height of 20-30 m. Another notable species group is a single Small-leaved fig Tree (*Ficus obliqua*) with adjacent Lilypilly (*Acmena smithii*) and Cabbage Tree Palms (*Livistona australis*). The combination of these species contributes to the character of the site and along with topography perform a

vital role in controlling views in and out of the site. It is understood that a Vegetation Management Plan will be prepared should the development application with council proceed.

## Access

The site is accessed by Windward Way along the southern boundary of the site, which joins Slaughterhouse Road, which in turn connects with the Princes Highway. Windward Way provides access to the township to the north west via Wilfords Lane, however these roads are unsealed and narrow. There is currently no other access to the site apart from an unsealed track adjacent to the existing caravan park. The highway provides direct access to the Milton township to the north west and Mollymook/ Ulladulla to the south east.

## Structures

Two existing rural-residential properties can be found along Windward Way. The properties are single story residences with landscaped/ manicured gardens and perimeter hedge-rows. A derelict silo can also be found along Windward Way. It sits on a local high point, which combined with its own height of approximately 9 m, creates a local landmark. The existing caravan park to the east along the highway consists of low-rise dwellings set out in rows. Further afield lies primarily low-density/ low-rise residential and commercial development associated with the Milton township and outer-lying suburban development associated with Mollymook.

RIGHT. Aerial image of site



# The Proposal

## Architectural Vision

The over-arching vision for the proposal is to create a seniors living community that sits appropriately within its environment and caters to a range of needs for its residents. The proposal aims to provide a scheme that reflects upon the previous work undertaken in 2005, respond to previous feedback and existing site constraints and provide a modern, well-designed community facility.

## Architectural Design

The proposal consists of a multi-housing project catering specifically to the needs of seniors. A series of facility and dwelling types have been developed, consisting of:

- A single story at front (facing Windward Way) “clubhouse” and medical facility, gym within the undercroft of the lower ground floor at the rear
- Residential care facility of one storey
- Seven apartment buildings, containing 133 apartments and consisting of 3 storeys
- 64 Duplex buildings of single storey; and
- Three triplex buildings of single stories.

This combination of structures and facilities is similar to the 2005 proposal, as are setbacks of the development from adjacent roads. Some building heights and footprints vary from the 2005 scheme and where this occurs, have been referred to the visual assessment chapter of this report.

Refer to latest architectural drawings for detailed information.

## Architectural Finishes

The architectural finishes as currently proposed (interim) comprises a contemporary collection of colours and finishes aimed to complement this style of development and create building identity to assist with wayfinding throughout the site.

Colours and finishes are proposed for each building type in order to create a unique identity and assist with wayfinding. Examples and an assessment of the colour palette are in the Mitigation chapter of this report.

| Building type             | Roof & gutters                                                                                                                    | Facade                                                                                                                          | Detailed elements                                                                                                                       | Window and door frames/screens                                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Clubhouse                 | <ul style="list-style-type: none"> <li>– “Charcoal Grey” oxide roof</li> <li>– “Woodland Grey” powdercoated gutters</li> </ul>    | <ul style="list-style-type: none"> <li>– “Woodland Grey”</li> <li>– Natural timber</li> </ul>                                   | <ul style="list-style-type: none"> <li>– “Light Shale Grey” powdercoat</li> <li>– “Orange” powdercoat</li> </ul>                        | <ul style="list-style-type: none"> <li>– “Woodland Grey” powdercoated</li> </ul>                                                       |
| Residential Care Facility | <ul style="list-style-type: none"> <li>– As above</li> </ul>                                                                      | <ul style="list-style-type: none"> <li>– “Light Shale Grey”</li> <li>– Natural timber</li> <li>– “White” painted</li> </ul>     | <ul style="list-style-type: none"> <li>– “Light Shale Grey”</li> <li>– “White” painted</li> </ul>                                       | <ul style="list-style-type: none"> <li>– “Yellow”, “Light Shale Grey” &amp; “White” powdercoated</li> <li>– Natural timber</li> </ul>  |
| Apartment Buildings       | <ul style="list-style-type: none"> <li>– “Charcoal Grey” oxide roof</li> <li>– “Charcoal Grey” powdercoated gutters</li> </ul>    | <ul style="list-style-type: none"> <li>– “Woodland Grey”</li> <li>– “Light Shale Grey”</li> <li>– Natural timber</li> </ul>     | <ul style="list-style-type: none"> <li>– “Light shale grey” powdercoat</li> <li>– “White” painted</li> <li>– “Charcoal Grey”</li> </ul> | <ul style="list-style-type: none"> <li>– “Woodland Grey” powdercoated</li> <li>– “Dirty Yellow” &amp; “Terran” powdercoated</li> </ul> |
| Duplex/ Triplex           | <ul style="list-style-type: none"> <li>– “Charcoal Grey” oxide roof</li> <li>– “Light Shale Grey” powdercoated gutters</li> </ul> | <ul style="list-style-type: none"> <li>– “Light Shale Grey”, “Charcoal Grey” &amp; “White”</li> <li>– Natural timber</li> </ul> | <ul style="list-style-type: none"> <li>– “White” powdercoated</li> </ul>                                                                | <ul style="list-style-type: none"> <li>– “Woodland Grey” powdercoated</li> </ul>                                                       |
|                           |                                                                                                                                   |                                                                                                                                 |                                                                                                                                         |                                                                                                                                        |





## Landscape Design

The landscape design prepared by Zenith Landscape Designs indicates that the development will consist of substantial landscaped areas including the planting of trees and street trees. These areas are critical in mitigating views of the development from the surrounding area, as is management of existing vegetation. Screen planting will be located to supplement existing stands of vegetation at key locations and trees will be planted along all new streets. This, in combination to planting of communal and private open space areas will assist with mitigation of short and long range views as well as improving amenity for residents and visitors.

### *Landscape objectives*

Related landscape objectives for the project are summarised as follows:

- Existing trees to be retained are to be protected from damage during construction
- Small-medium trees planted along internal roads to provide visual relief and shade and assist with wayfinding and precinct identity
- Dense planting of indigenous species along boundaries to assist with screening from short to long-range viewpoints
- Bush regeneration of creek gully environmental zone to assist with environmental and visual objectives
- Scattered trees and open parkland as transition zone between environmental zone and development
- Planting of appropriate character species to Windward Way frontage.

The landscape objectives are demonstrated on the following plan (refer Page 8).





## Civil Design

The civil design prepared by Greenview Consulting indicates that the development will require a large onsite detention pond, which will effectively separate the development from the environmental zone associated with the existing gully. An open style managed parkland around the pond will allow sporadic tree planting, which will assist with visual impact mitigation for longer range views. The bulk earthworks design is still in it's early stages. Care should be taken to avoid cut and fill within drip lines (or tree protection zones defined by project arborist). Land available for landscape treatments and tree planting should be maximised along internal road corridors, so that tree planting can assist with long range visual impact mitigation and short-range landscape character and shade.

The civil design is shown on the following plan (refer Page 9).



EXISTING

PROPERTY BOUNDARY

CONTOUR

CONCRETE

EDGE OF BITUMEN

KERB ONLY

KERB RAMP

STORM WATER MANHOLE

STORM WATER GULLY PIT

ROOFWATER

WATER

WATER CONDUIT

SEWER

SEWER MANHOLE

ASBESTOS

TELSTRA

OPTUS

UGROUND ELECTRICITY

OVERHEAD ELECTRICITY

FENCE

RETAINING WALL

SWALE DRAIN

TREE

PROPOSED

381mm EXTENDED DETENTION

ASSET PROTECTION ZONE

PROPOSED TANK 3 FOR STORMWATER TREATMENT

E2 ZONE

CORE RIPARIAN ZONE

EXTENT OF SUBTROPICAL COMPLEX RAINFOREST LINE

DETENTION POND WITH 1m STANDING WATER

5.90m<sup>2</sup> STANDING AREA

1.910m<sup>3</sup> DETENTION VOLUME ABOVE STANDING WATER

PROPOSED TANK 2 FOR STORMWATER TREATMENT

PROPOSED TANK 1 FOR STORMWATER DETENTION & TREATMENT

BIO-RETENTION FILTER MEDIA



- NOTE
1. THIS PLAN HAS BEEN PREPARED FOR REVIEW ONLY AND IS NOT TO BE USED FOR CONSTRUCTION PURPOSES
  2. THIS APPROACH WILL REQUIRE BOTH PRELIMINARY AND FINAL STORMWATER CYCLE MANAGEMENT REPORT AND PLAN. TANK SIZES TO BE DETERMINED IN ACCORDANCE WITH THE REVISED WATER CYCLE MANAGEMENT PLAN



160529

PRELIMINARY

P02

PROPOSED AGED CARE FACILITY  
Whitward Way, MILTON, NSW 2038  
ANNSCA PROPERTY GROUP

APPROVED  
ALISTAIR MACKERON  
CIVIL ENGINEER

greenview

CONSULTING

| DESIGN |                     | RF  |             |
|--------|---------------------|-----|-------------|
| DT     | ISSUED FOR REVIEW   | DT  | 1:1000      |
| RF     | ISSUED FOR APPROVAL | RF  | 1:1000      |
| MDP    | ISSUED FOR APPROVAL | MDP | 1:1000      |
| REV    | ISSUED FOR APPROVAL | REV | 1:1000      |
| REV    | DATE                | BY  | DESCRIPTION |
|        |                     |     |             |
|        |                     |     |             |
|        |                     |     |             |
|        |                     |     |             |

# Visual Analysis Methodology

## Overview

This chapter aims to undertake a qualitative assessment of the potential impacts on shared views from long range viewpoints. It is not an assessment of views between neighbours in and around the subject site within the study area. The long range views have been selected following a review of the 2005 *Visual and Landscape Constraints Report* by Richard Lamb Associates and discussions between the project team and Shoalhaven City Council.

The methodology for the visual analysis has been developed in response to the brief in conjunction with the author's previous experience in similar projects and visual assessments. The two key tests for the assessment are:

- *EIA N04 Practice Note: Guidelines for Landscape Character and Visual Impact Assessment V2.0* (Roads and Maritime Services, 2013)
- *Planning principles and consistency of decisions, Part 3: Planning principles on the assessment of view impact*. Talk delivered by Dr John Roseth, Senior Commissioner, Land and Environment Court of New South Wales to the Law Society's Local Government and Planning Law Seminar on 15 February 2005.

The relevance of the first document is that it considers the site within its landscape setting (context and character) and considers views from other user groups and longer-range locations. The second document outlines principles relating to the assessment of impacts on 'shared views' between neighbours.

## Heritage Views

Whilst heritage has been a consideration in the development of an understanding of the context and character of the study area, no further heritage considerations have been undertaken, as the site is not heritage listed and scenic relationships between local heritage items are unlikely to be impacted.

## Study Process

The process for the analysis is as follows:

- Desktop study of background documents and mapping
- Visual inspection of subject site and study area and associated photography to determine potential viewpoints and confirm site character
- Review of architectural documents (drawings, reports, models etc) and discussion of the intent of the proposal with the architect
- Preparation of contextual and character

mapping of the study area

- Preparation of visual analysis drawings of the study area and immediate site
- Preparation of photographic analysis identifying potential viewing locations both 'of' and 'from' the proposal
- Establishment of an appropriate qualitative value system to categorise types of views (refer below)
- Confirm the proposal complies with the appropriate planning and development control framework and is considered 'reasonable' for the type of development proposed and the site (this is based on advice from the proposal designer).

## Qualitative Value System

The visual analysis has been assessed in relation to a number of key viewpoints. The method of assessing these views has involved:

- Defining the scale or size, form and type of the proposal within the context of the study area
- Establishing an estimated visual envelope, through desktop analysis and ground-truthing on site
- Identifying key viewpoints from where the proposal would be visible and distances involved
- Identifying key viewpoints 'of' and 'from' neighbouring properties
- Assessing the 'magnitude of change' and 'sensitivity to change' of each viewpoint (refer below).

## Visual Envelope

A combination of the physical characteristics of the site, the nature of the existing road corridor and the proposal itself define the visible area and the catchment from where the works are visible. This visual envelope has been defined as occurring 25, 50, 100 and 250 m from the subject site. Refer to drawing VA03 for visual envelope identification.

## Viewpoints

Viewpoints within visual assessment precincts have been selected and assessed (sometimes as a group) for potential impacts. The chosen viewpoints have been assessed using the following methods:

- Field investigations, site photography and mapping
- Computer generated visualisations based on 3-dimensional design and survey data
- Aerial views and transects using Google Earth™ Professional software.



### Magnitude

The 'magnitude of change' to existing views refers to the nature and scale of the proposal, and the extent and proximity of the view to the work. Magnitude represents the contrast in scale, form and type of work and to the location and context to which it is to be placed. A high magnitude results if the proposal is of a major scale and considered out of scale or uncharacteristic of the existing visual character, or if there is considerable modification to the existing built fabric or landscape. A moderate magnitude would result if the upgrade is prominent but not considered to be substantially uncharacteristic with the existing visual character. A low magnitude results if there is minimal alteration to the existing view and the upgrade is of a scale and nature that is consistent with the existing visual character.

### Sensitivity

Sensitivity is the measure of the visual importance of the view and the 'completeness' of the view and is dependent on the following:

- The category of viewer such as resident, visitor or worker
  - The elements of the proposal that are visible
  - Importance of the view
  - Consideration of the perceived cultural, natural and heritage values of the visual environment and the elements within it.
- Generally, viewers with the highest sensitivity include:
- Residents who have existing views that would be affected by the proposal and the context of this view ie. kitchen window, balcony, bedroom, living room
  - Users of public open space where their attention is focused on the visual landscape, for example, lookouts or other scenic natural areas
  - Communities that place high cultural and historical significance on the visual landscape
- Viewers with the lowest sensitivity are most likely to be:
- Employees working within an enclosed workplace and focused on their work

(however interesting views should be provided for them within a short walk from their workplace)

- Motorists (apart from tourists) whose attention is focused on driving – however it is important to provide a stimulating motorist experience, particularly for tourists.

### Impact

Impact is the combination of the 'magnitude' and 'sensitivity' rating in accordance with the Visual Analysis Grading Matrix (refer table below). It captures impacts felt by viewers of the proposal and to a lesser extent views from the proposal.

Whilst generally the analysis will be determining negative impacts on views, in some case impacts on views may be considered positive and of benefit to viewers of the proposal.

In assessing impact, vegetation buffering is considered however, due to potential changes to vegetation over time, full value is not given to its screening potential (as opposed to built form and topography which is seen as more permanent).

Where sensitivity and magnitude ratings are considered lower than a particular rating level, but not low enough for the rating below, then the upper rating will be used, particularly in areas valued for their cultural or natural values generally.

RIGHT: Visual analysis grading matrix  
Roads and Maritime Services

|             |            | Magnitude     |               |              |            |
|-------------|------------|---------------|---------------|--------------|------------|
|             |            | High          | Moderate      | Low          | Negligible |
| Sensitivity | High       | High Impact   | High-Moderate | Moderate     | Negligible |
|             | Moderate   | High-Moderate | Moderate      | Moderate-low | Negligible |
|             | Low        | Moderate      | Moderate-Low  | Low          | Negligible |
|             | Negligible | Negligible    | Negligible    | Negligible   | Negligible |

# Visual Analysis

## Overview

Key viewpoints and potential viewpoints have been identified and visualised on the following page and on drawings VA01 & 03. The grading matrix table (refer previous page) sets out the components of the qualitative value system and assesses magnitude, sensitivity and potential impacts on each viewpoint.

The site's setting, in terms of topography and aspect, in combination with areas of existing vegetation, provide a good visual screening of the site from many, if not most, potential viewpoints. The setting, in combination with the architectural design, bulk earthworks levels and subsequent landscaping of the site, all have an important role in mitigating visual impact.

In order to assess this potential impact, four key viewpoints have been selected for detailed assessment including visual representation. A series of other locations have been selected for less intense scrutiny, as a broad assessment can be made from desktop studies in conjunction with the previous 2005 proposal and assessment in the Visual and Landscape Constraints Report (Richard Lamb and Associates, 2005).

The 2005 report has also identified areas of exposure and provided ratings of Low, Moderate and High. The visual analysis for the selected viewpoints has taken into account these zones as part of the "sensitivity" rating (refer figure below and following tables).

BELOW. Visual exposure map - Richard Lamb Associates, 2005





## Assessed Viewpoints

### Viewpoint 01

#### — Location and description

Viewpoint 01 is located near the intersection of the subject site boundary with the adjacent tourist van park alongside the Princes Highway. This location has been selected as an example of potential pedestrian views from the highway.

#### — Analysis

The visual analysis depicted in the following google earth generated viewshed model and perspective montage (refer below and following), indicates that from this location, framed vistas of the proposal are possible due to the nature of the ridge line and existing vegetation, however the percentage of visible built form is considered low. In addition, the ridge line is densely vegetated and elevated, forming a backdrop to the view and therefore ensuring the visual ‘horizon’ remains unobstructed.

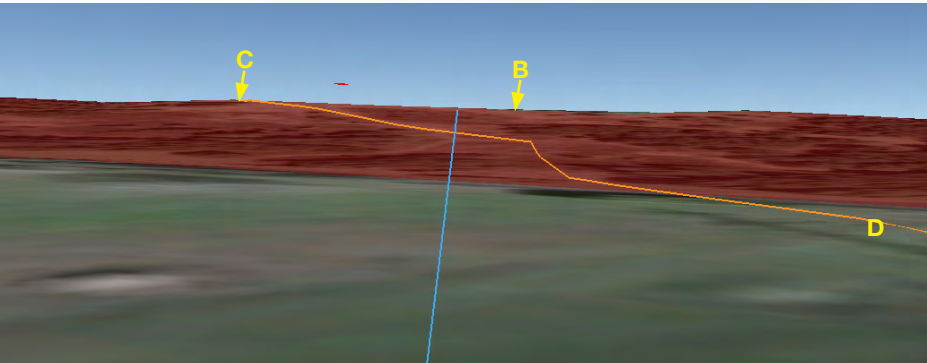
Although located within a moderately sensitive view, the nature of the topography, existing foreground vegetation and unobstructed background/horizon, results in a low magnitude of work being visible and enables a visual impact mitigation strategy that will further reduce potential impacts (refer following table).

#### — 2005 Proposal

The nearest viewpoint assessed in the 2005 proposal is referred to as “Location D”, taken from the road surface near viewpoint 01. The viewpoint was assessed as a *“Limited vegetation within the eastern part of the site gives access to this view along the eastern boundary of the site. The south-eastern corner of the site is screened by intervening vegetation”*.

The assessment undertaken in the 2005 proposal is considered to be very similar although, impacts are considered to be lower along the eastern boundary due to the foreground vegetation having grown substantially since along with the opportunity to supplement the existing vegetation with new planting.

BELOW. Viewpoint 01 location



ABOVE. Potential viewshed model - VIEW-POINT 01

- LEGEND.
- A Concrete tank
  - B #52 Windward Way property
  - C Silo
  - D Power lines





ABOVE. Viewpoint 01 from edge of highway, 150m from edge of proposed built form

BELOW. Visual analysis assessment table - VIEWPOINT 01

| VP# | Description of setting                                      | Distance to built form (m) | Elements of proposal considered                                               | Visual exposure (RLA, 2005)                                                      | Sensitivity                                                                                                                                                                                                                                                               | Magnitude                                                                                                                                                                                             | Potential Impact |
|-----|-------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 01  | View from edge of highway, north eastern corner of the site | 150 m approx               | Partial roofs and facades of buildings, architectural finishes, tree planting | High rating in foreground, with moderate and high ratings through centre of view | Moderate <ul style="list-style-type: none"><li>Close views but tightly framed by vegetation</li><li>Range of (mainly transient) viewer types</li><li>Visual horizon intact</li><li>Locally valued undulating rural landscape with patches of native vegetation.</li></ul> | Moderate <ul style="list-style-type: none"><li>Views screened by vegetation, however existing vegetation reduced by entry drive</li><li>Roofs and upper level facades only visible elements</li></ul> | Moderate         |





ABOVE. Viewpoint 01 rendered with no future planting growth





ABOVE. Viewpoint 01 rendered with 10 years future planting growth



Viewpoint 02

— Location and description

Viewpoint 02 is located on Garrads Lane near the intersection with the Princes Highway. The view has been selected as an example of pedestrian and resident views on Garrads Lane.

— Analysis

The visual analysis depicted in the following google earth generated viewshed model and perspective montage (refer below and following), indicates that from this location, framed vistas of the proposal are possible due to the nature of the ridge line and existing vegetation, however the percentage of visible built form is considered low. In addition, a densely vegetated and elevated ridge line forms a backdrop to the view and therefore assists with mitigating the impact as the visual ‘horizon’ remains unobstructed.

Although located within a moderately sensitive view due the proximity of existing residences, the aspect of these properties, as well as the nature of the topography, existing foreground vegetation and unobstructed background/horizon, result in a low magnitude of work being visible and enable a visual impact mitigation strategy that will further reduce potential impacts (refer following table).

In addition the built form related visual impact, the proposal would see the construction of a new entry road off Garrads Lane. This would result in the sealing of Garrads Lane, planting of street trees, footpath works and the like. This could be argued to be a positive visual impact on the streetscape.

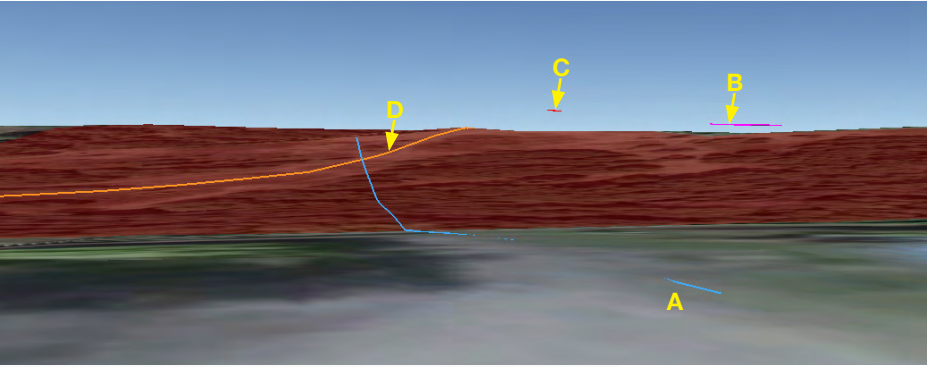
BELOW. Viewpoint 02 location



— 2005 Proposal

The nearest viewpoint assessed in the 2005 proposal is referred to as “Location B”, taken from the highway at the intersection with Garrads Lane. The viewpoint was noted that *“There is a restricted view of part of the site from close viewing locations within the Princes Highway”*.

The assessment undertaken in the 2005 proposal is considered to be very similar although, impacts are considered to be lower along the eastern boundary due to the foreground vegetation having grown substantially since along with the opportunity to supplement the existing vegetation with new planting.



ABOVE. Potential viewshed model - VIEW-POINT 02 (excluding vegetation)

- LEGEND.
- A Garrads Lane
  - B #52 Windward Way property
  - C Silo
  - D Power lines





BELOW. Visual analysis assessment table -  
VIEWPOINT 02

| VP# | Description of setting                                    | Distance to built form (m) | Elements of proposal considered                                               | Visual exposure (RLA, 2005)                                                     | Sensitivity                                                                                                                                                                                                                                                                                                                 | Magnitude                                                                                                                                    | Potential Impact |
|-----|-----------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 02  | View from edge of highway, intersection with Garrads Lane | 200 m approx               | Partial roofs and facades of buildings, architectural finishes, tree planting | Low rating in foreground, with moderate and high ratings through centre of view | Moderate <ul style="list-style-type: none"><li>Close views but tightly framed by vegetation</li><li>Existing residential properties not facing proposal directly</li><li>Range of viewer types</li><li>Visual horizon intact</li><li>Locally valued undulating rural landscape with patches of native vegetation.</li></ul> | Low <ul style="list-style-type: none"><li>Views screened by vegetation</li><li>Roofs and upper level facades only visible elements</li></ul> | Moderate to low  |

ABOVE. Viewpoint 02 from Garrads Lane showing 3D model analysis and superimposed view





ABOVE. Viewpoint Q2 rendered with no future planting growth





ABOVE. Viewpoint 02 rendered with 10 years future planting growth



Viewpoint 03

— Location and description

Viewpoint 03 is located at the southern edge of Milton township, along the southern fenced boundary of the Milton Showground. This location has been selected as an example of potential views from the edge of Milton.

— Analysis

The visual analysis depicted in the following google earth generated viewshed model and perspective montage (refer below and following), indicates that from this location, framed vistas of the proposal are possible due to the nature of the ridge line and existing vegetation, however the percentage of visible built form is considered low. In addition, a densely vegetated and elevated ridge line forms a backdrop to the view and therefore assists with mitigating the impact as the visual ‘horizon’ remains unobstructed.

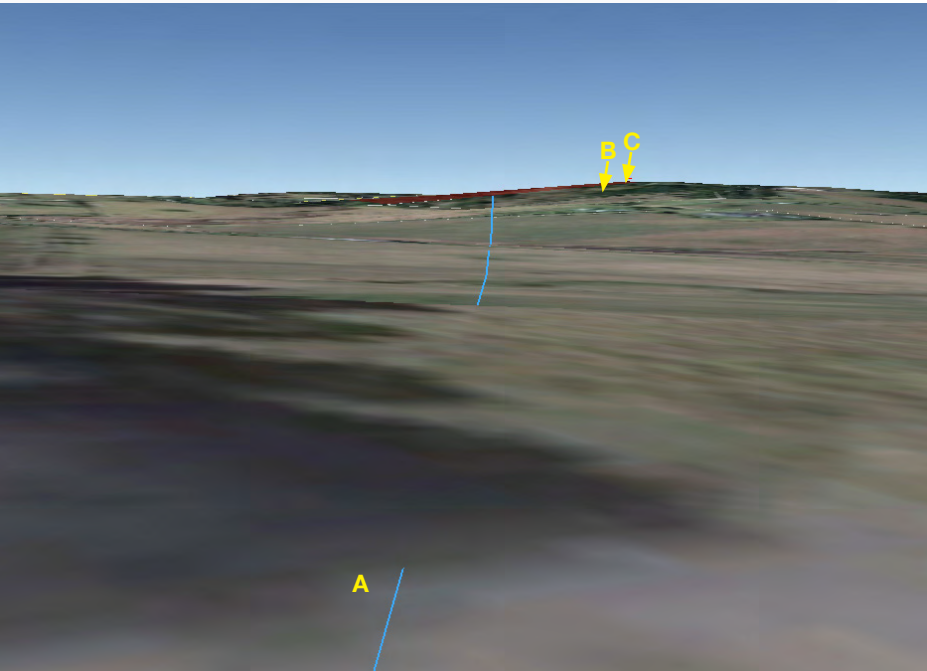
Although located within a moderately sensitive view, the nature of the topography, existing foreground vegetation and unobstructed background/horizon, result in a low magnitude of work being visible and enable a visual impact mitigation strategy that will further reduce potential impacts (refer following table).

— 2005 Proposal

The nearest viewpoint assessed in the 2005 proposal is further west referred to as “Location J” near the intersection of Crooybar Road and Ringland Lane. The viewpoint was assessed as a *“very distant view from which most of the site is not visible. Vegetation on the western boundary of the site screens most views”*.

The assessment undertaken in the 2005 proposal is considered to be unchanged, as the current proposal has respected the development guidelines developed from the site analysis and is generally not visible due to dense vegetation along the site’s nearest boundary.

BELOW. Viewpoint 03 location



ABOVE. Potential viewshed model - VIEW-POINT 03 (excluding vegetation)

- LEGEND.
- A Showground gates
  - B #52 Windward Way property
  - C Silo



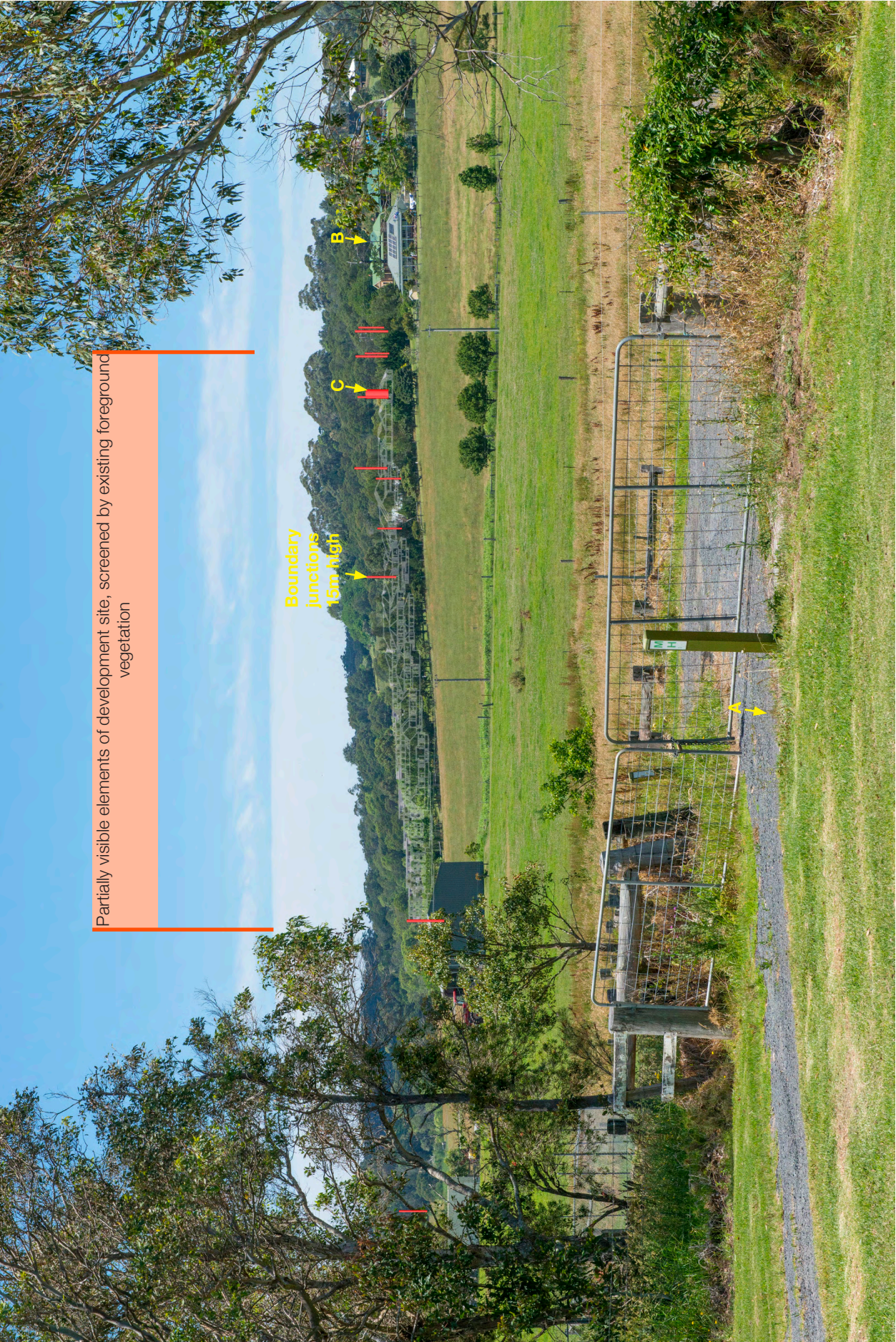


BELOW. Visual analysis assessment table -  
VIEWPOINT 03

ABOVE. Viewpoint 0 3 from edge of Milton  
showground, approximately 1 km from site

| VP# | Description of setting                                                                                   | Distance to built form (m) | Elements of proposal considered                                               | Visual exposure (RLA, 2005)                                                                                             | Sensitivity                                                                                                                                                                                                                                                                                                      | Magnitude                                                                                                                                                   | Potential Impact |
|-----|----------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 03  | View from edge of Milton showground - indicator of potential views from southern edge of Milton township | 1,100 m approx             | Partial roofs and facades of buildings, architectural finishes, tree planting | Primarily low rating in foreground with partial exposure to high rated zones associated with the Windward Way ridgeline | Moderate <ul style="list-style-type: none"><li>Distance views</li><li>Range of (mainly transient) viewer types</li><li>Visual horizon intact</li><li>Existing residential properties not facing proposal directly</li><li>Locally valued undulating rural landscape with patches of native vegetation.</li></ul> | Low <ul style="list-style-type: none"><li>Views screened by topography and vegetation</li><li>Roofs and upper level facades only visible elements</li></ul> | Moderate to low  |





Partially visible elements of development site, screened by existing foreground vegetation

ABOVE. Viewpoint Q3 rendered with no future planting growth





ABOVE. Viewpoint Q3 rendered with 10 years future planting growth



Viewpoint 04

— Location and description

This viewpoint is also located at the southern edge of the Milton township and situated along Crooybar Road next to an existing helipad and bus stop about 350m west of the Princes Highway.

— Analysis

The visual analysis depicted in the following google earth generated viewshed model, aligned image and perspective montage (refer below and following), indicates that from this location, it will be possible to see mainly roofs and upper facades due to the nature of the ridge line and existing vegetation. A densely vegetated and elevated ridge line forms a backdrop to the view and therefore assists with mitigating the impact as the visual ‘horizon’ remains unobstructed.

The dominant roof form visible is associated with the RACF building, while the tops of some of the other blocks are visible. Despite this, the Windward Way residence is visible in the montage, indicating the proposal sits below this structure.

— Assessment

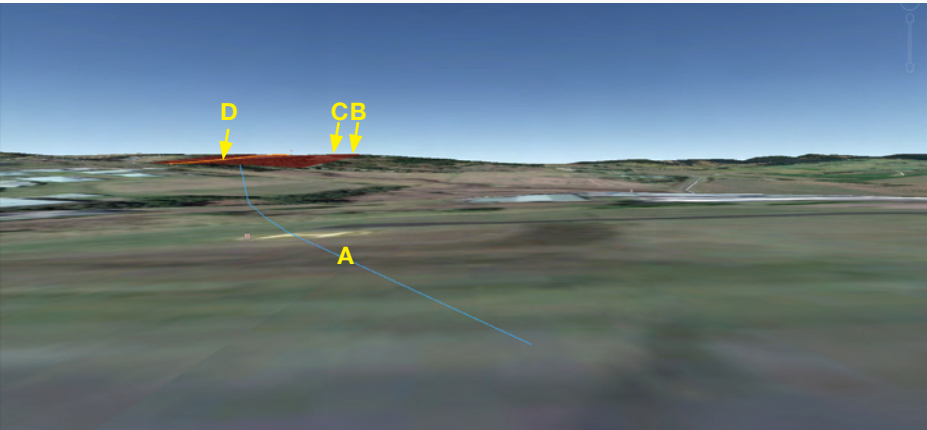
Although located within a moderately sensitive view, the nature of the topography, existing foreground vegetation and unobstructed background/horizon, along with the architectural design which has terraced the building forms, results in a low magnitude of work being visible and enables a visual impact mitigation strategy that will further reduce potential impacts (refer following table).

— 2005 Proposal

Assessed in the 2005 proposal as “Location H”, the viewpoint was assessed as a *“distant view from in the vicinity of the helipad. Most of the site is not visible from this location with the exception of some of the upper parts of the site in the area of the western boundary.”*

The assessment undertaken in the 2005 proposal is considered to be unchanged, as most of the site remains out of direct view and the current proposal has respected the development guidelines developed from the site analysis and is generally not visible due to dense vegetation along the site’s nearest boundary.

BELOW. Viewpoint 04 location



ABOVE. Potential viewshed - VIEWPOINT 04

- LEGEND.  
A Helipad  
B #52 Windward Way property  
C Silo  
D Power lines





BELOW. Visual analysis assessment table -  
VIEWPOINT 04

ABOVE. Viewpoint 04 from helipad on  
Crooybar Road, about 750m from the site

| VP# | Description of setting          | Distance to built form (m) | Elements of proposal considered                                               | Visual exposure (RLA, 2005)                                                                                                         | Sensitivity                                                                                                                                                                                                                                                                              | Magnitude                                                                                                                                                        | Potential Impact |
|-----|---------------------------------|----------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 04  | View from Crooybar Road helipad | 750 m approx.              | Partial roofs and facades of buildings, architectural finishes, tree planting | Primarily low rating in foreground with partial exposure to moderate to high rated zones associated with the Windward Way ridgeline | Low <ul style="list-style-type: none"><li>Distance views</li><li>Range of (mainly transient) viewer types</li><li>Visual horizon intact</li><li>Existing commercial properties not facing proposal directly</li><li>Vegetated backdrop</li><li>Existing development precedents</li></ul> | Moderate <ul style="list-style-type: none"><li>Views screened by topography and vegetation</li><li>Roofs and upper level facades only visible elements</li></ul> | Moderate to low  |





ABOVE. Viewpoint 04 rendered with no future planting growth





ABOVE. Viewpoint 04 rendered with 10 years future planting growth



Road User Views

Motorists on the Princes Highway will be passing the site at 60 km/h, with only fleeting vistas of the site in either direction. Views would be framed between copses of vegetation, existing structures and only possible where topography allows. Pedestrian and cyclist activity along the highway would be at slower speeds, however frequency is considered minimal and no dedicated facilities are provided for these uses.

Motorists, cyclists and pedestrians on Windward Way are few in number due to the low density of development serviced by this road and lack of formal footpaths. Views of the proposal are only possible in the vicinity of the existing silo, along the frontage of the proposal, however the proposed buildings step down the hill away from the viewer and will be screened by planting including trees. Road users on Slaughterhouse Way are screened from the proposal by existing vegetation and lower elevations.

BELOW. Road user viewpoints

Viewer types are likely to be local residents, tourists and transport drivers, which due to their transient nature, focus on driving and brief timing of views, are considered have low sensitivity.

2005 Proposal

The 2005 proposal discussed road user views from the highway and local roads. The main conclusions were that there are “some close and middle distant views to the site from parts of the Princes Highway”, and that...”There is no one point along the Highway from which the entire site is visible at any one time, and some parts of the site are almost always screened from view as a result of the topography and the effects of intervening vegetation”.

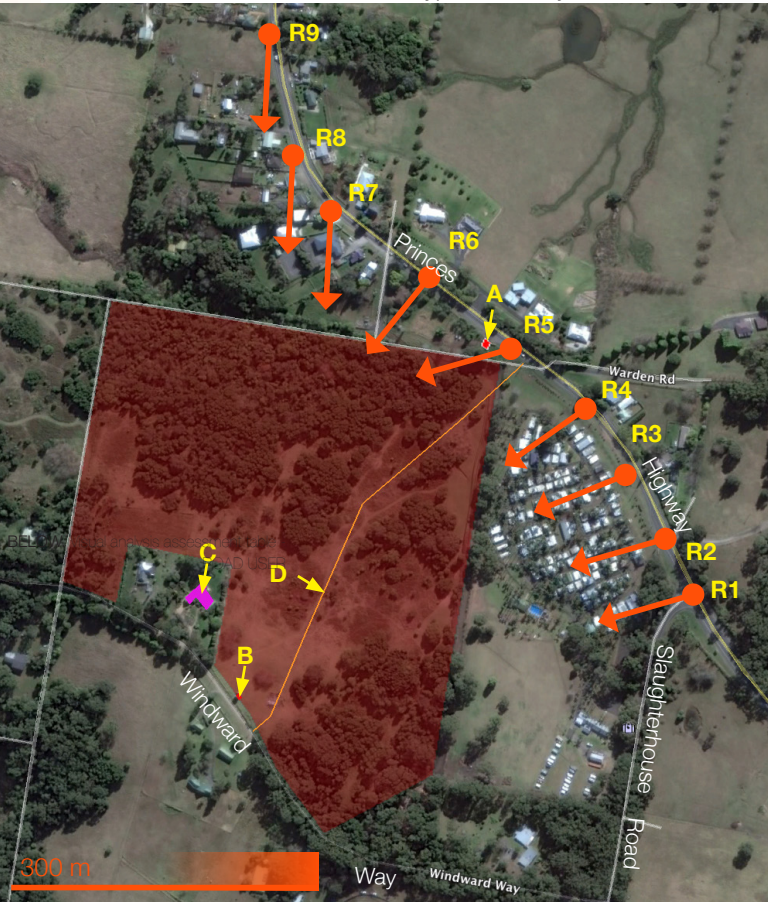
— Analysis

The visual analysis depicted in the following google earth generated viewshed models and aligned images (refer below and following), indicates that from this location, framed vistas of the proposal and entry road are possible due to the nature of the ridge line and existing vegetation, however the percentage of visible built form is considered low. In addition, a densely vegetated and elevated ridge line forms a backdrop to the view and therefore assists with mitigating the impact as the visual ‘horizon’ remains unobstructed. The entry road has been designed with curvature and in combination with topography aims to minimise views of the development along the new driveway.

— Assessment

Due to the low sensitivity of potential viewers and the nature of the topography, existing foreground vegetation and unobstructed background/horizon, a low magnitude of the proposal being visible, an overall low visual impact will occur. A visual impact mitigation strategy will further reduce potential impacts (refer following table).

The following road user viewpoints have been generated to visually represent the road user analysis outcomes.



LEGEND.  
A Existing site entry  
B Silo  
C #52 Windward Way property  
D Powerlines

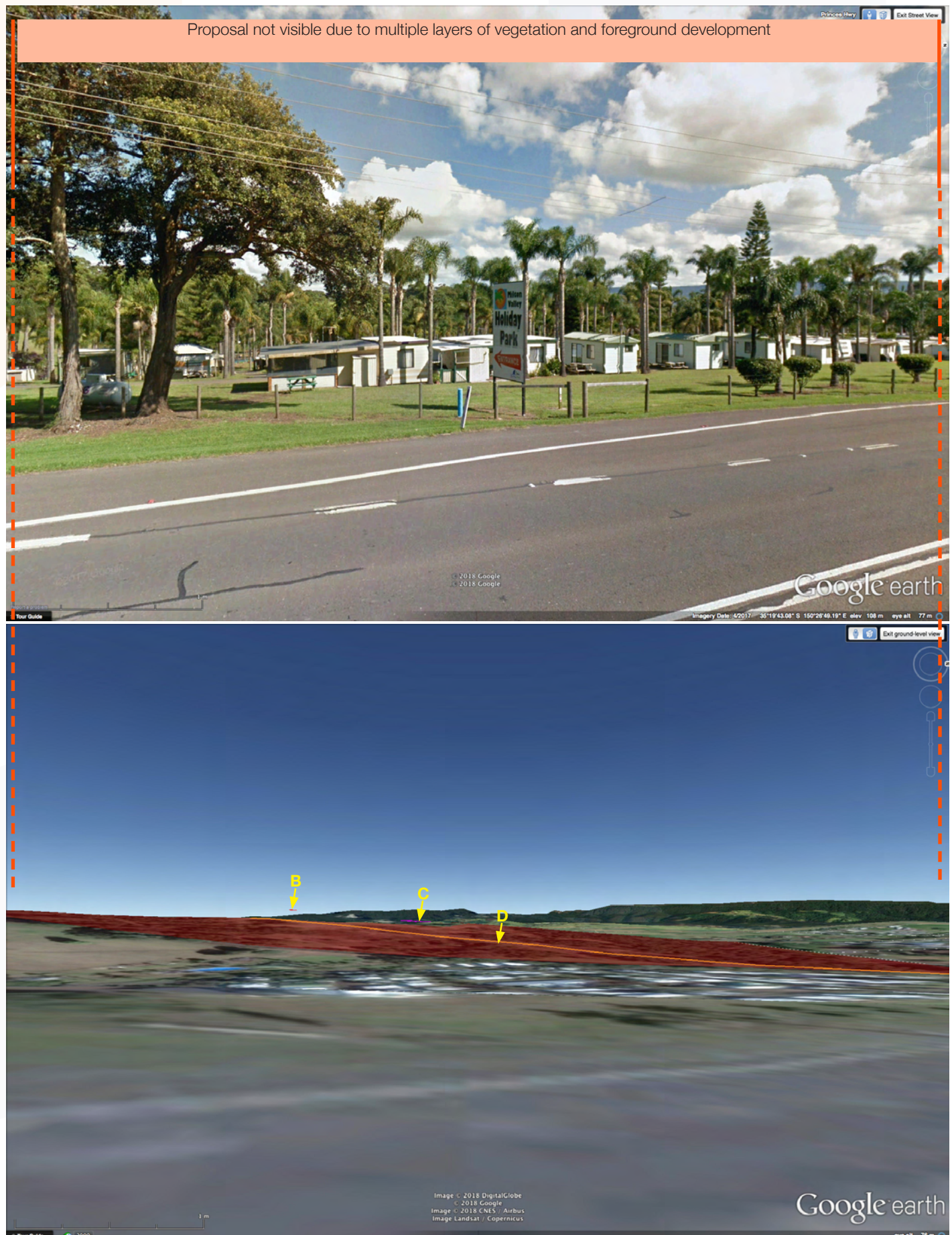
| VP#       | Description of setting                                                  | Distance (m)      | Elements of proposal considered                                                                               | Visual exposure (RLA, 2005)                                                                                                          | Sensitivity | Magnitude | Potential Impact |
|-----------|-------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|------------------|
| Road User | Highway - Vegetated roadside, undulating topography, vegetated backdrop | 100-300 m approx. | Entry driveway, partial roofs and facades of buildings, architectural finishes, tree planting and landscaping | Primarily high rating in foreground with partial exposure to moderate to high rated zones associated with the Windward Way ridgeline | Low         | Low       | Low              |





ABOVE: Road user view analysis R1





ABOVE: Road user view analysis R2





ABOVE: Road user view analysis R3





ABOVE: Road user view analysis R4





ABOVE: Road user view analysis R5





ABOVE: Road user view analysis R6





ABOVE: Road user view analysis R7





ABOVE: Road user view analysis R8





ABOVE: Road user view analysis R9



### Other Potential Viewpoints

Other potential viewpoints are located around the subject site. These include rural-residential properties on Windward Way, residences on the Princes Highway and Garrads Lane, a local school, helipad and industrial complex on Crooybar Road. Most of these viewpoint locations are well screened by topography, aspect or existing vegetation or are distance views of 250-500 m or more. Apart from two adjacent properties at #52 and #60 Windward Way, residences tend to be orientated away from the proposal, which reduces their sensitivity.

#52 and #60 Windward Way have the potential to be most impacted of all nearby residential properties. Existing boundary screen planting is for the most part well-established. Further planting is to be undertaken along the boundary to screen the development, but done so in a way that allows views from the properties over the proposal to the broader landscape to the north.

Only viewpoints with a potential impact of moderate or higher would be considered worthy of further examination, which is unlikely to be the case. Most are considered to be in the Low or Moderate-to-Low range (as was the case with the 2005 proposal) and will benefit from the mitigation measures outlined in the following section of the report.

### Visual assessment summary

The visual impact analysis has identified four viewpoints, from which visual impacts resulting from the proposal can be demonstrated. The impact ratings range from Moderate to Moderate-to-Low, which is primarily due to minimal views of the proposal afforded by a combination of aspect, topography and existing vegetation.

The highest impacts would be experienced at the north eastern corner of the proposal, primarily due to proximity of the built edge. Although the view is sensitive to change, this location is not frequented by sensitive viewers.

Residents viewing the proposal from Garrads Lane and elevated positions of the Princes Highway, are unlikely to experience full open views of the proposal and are generally not oriented towards the development.

Residents on Windward Way generally face a way from the proposal apart from two properties, which may have views over the development where not screened by boundary vegetation.

Road user views will have low to negligible impact due to distance from the proposal being in the range of 100-300m, views along the road not being directed directly towards the proposal and the road user being focused on driving tasks at 60 km/h.

The visual impact of the proposal across the study area is summarised in the following table.

For mitigation measures refer to [Section 5](#) of this report.

| VP#       | Sensitivity | Magnitude | Impact          |
|-----------|-------------|-----------|-----------------|
| 01        | Moderate    | Low       | Moderate        |
| 02        | Moderate    | Low       | Moderate-to-low |
| 03        | Moderate    | Low       | Moderate-to-low |
| 04        | Low         | Moderate  | Moderate-to-low |
| Road user | Low         | Low       | Low             |
|           |             |           |                 |



# Mitigation Measures

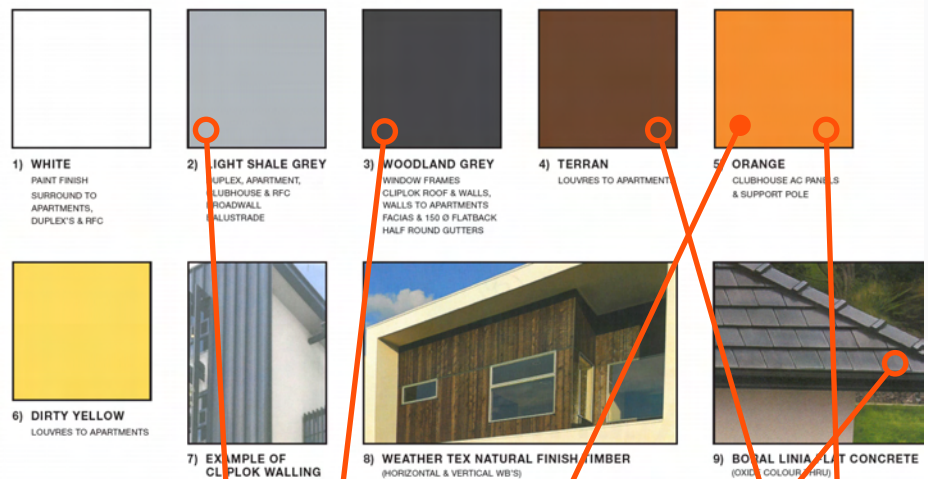
## Overview

This section describes the mitigation measures that have been included as part of the design for the proposal and as a summary of further mitigation measures to be considered during the detailed design and construction phases of the project. The measures have been developed in order to address the impacts identified in the Visual Analysis section of the report.

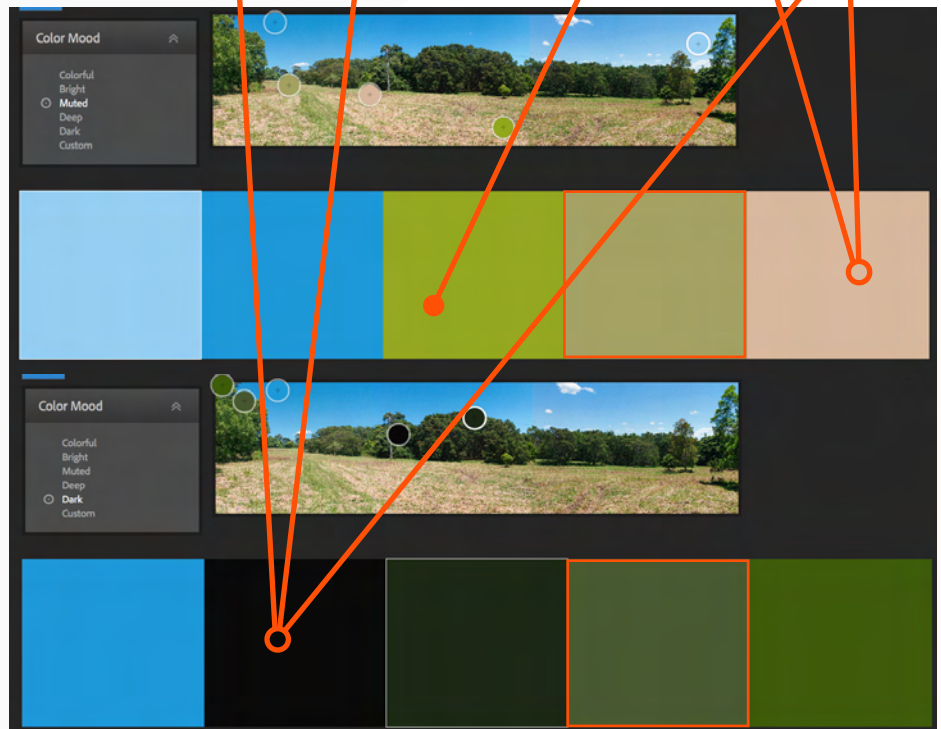
## Finishes

An assessment of the current finishes proposed has been undertaken by assessing colour selections against views of the existing site. The purpose of this assessment is to determine whether the colour selections will blend or contrast with the existing site when viewed from the selected viewing positions. Refer to the summary of mitigation measures for recommendations.

RIGHT. Architectural finishes selections  
Stephen Jones Associates



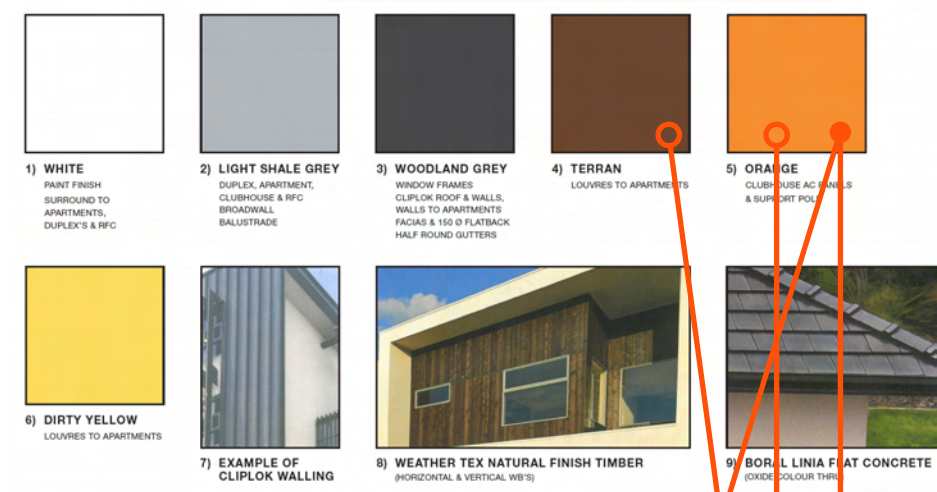
RIGHT. Site colours  
Tim Mooney Photography/ Adobe Systems Inc.



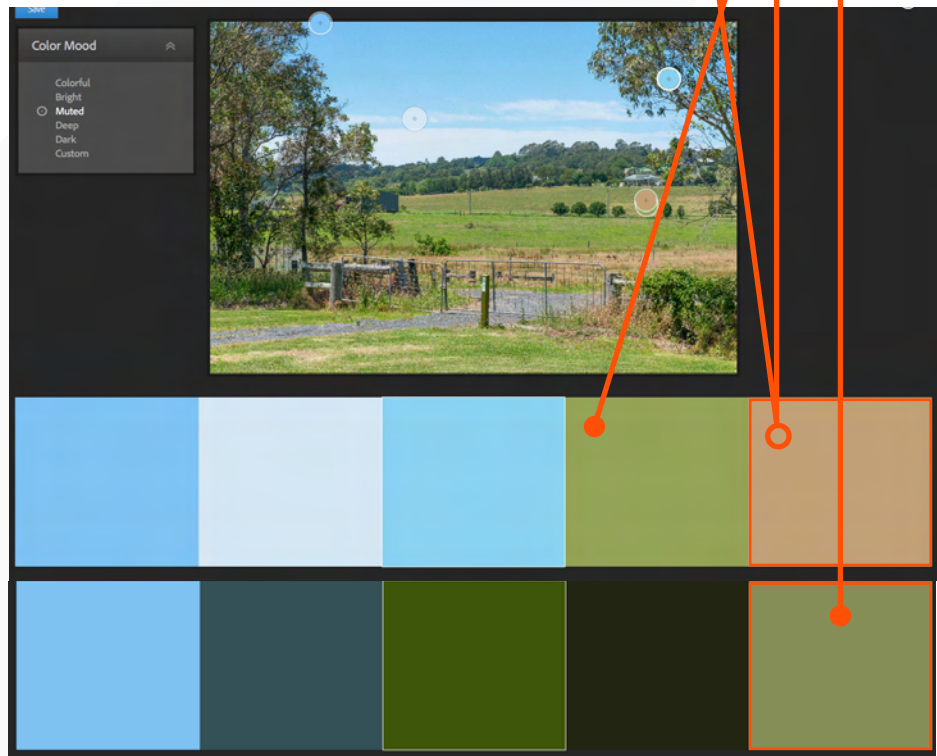
- LEGEND.**
- Complementary colours
  - Contrasting colours
  - Recommended for inclusion



RIGHT. Architectural finishes selections  
Stephen Jones Associates



RIGHT. Site colours  
Tim Mooney Photography/ Adobe Systems  
Inc.



*Finishes recommendations for detailed design*

Overall the finishes respond well to the colours and textures of the existing landscape, with the exception of green colours. Green colours and tones should be adopted into the scheme in order to mitigate visual impacts. Green should be used on facades in combination with grey tones and potentially as a feature colour to assist with building identification and wayfinding.



## Development Principles

The 2005 visual analysis (*Richard Lamb and Associates, 2005*) outlined several principles for development, which are captured here in the mitigation section of the report. The principles have been assessed in relation to the current scheme (where relevant) in order to ascertain whether the proposal is acceptable under these guidelines.

| # | 2005 Principle                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Response in relation to current scheme                                                                                                                                                                                                                                                                                                 | Compliance         |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1 | Future development of the site should ensure that no development would be seen to protrude above the visual horizon, especially when viewed from locations at lower relative levels than the site.                                                                                                                                                                                                                                                              | This has been reviewed in relation to viewpoints from the township side as well as the highway, the visual horizon is not broken in these locations and is unlikely to be broken in other locations due to the nature of the existing topography and vegetation. The upper portion of the site is limited to single storey structures. | Complies           |
| 2 | The vegetated character of the visual horizon as it appears presently in most views should be retained.                                                                                                                                                                                                                                                                                                                                                         | The vegetation associated with Windward Way and the upper portion of the site will be retained as much as possible and supported with new planting.                                                                                                                                                                                    | Complies           |
| 3 | The area within the southern and middle parts of the site, which follow a spur through the site from the southern ridgeline, should generally be retained undeveloped. This part of the site is relatively highly visible to places outside the site, especially from the Highway and should be retained in its character as far as is feasible. The combination of this land and ridge top vegetation is critical to conserving the scenic values of the land. | These parts of the site are proposed to be developed with single storey residences surrounded by new landscaping. Visual analysis has indicated that the visual horizon will not be obstructed and that there will be only Moderate-to-low visual impacts.                                                                             | Partially Complies |
| 4 | Denser vegetation along the northern boundary of the site could be incorporated into any future development of the site. The aim should be to filter views into the site rather than to provide a dense screen along the Highway boundary.                                                                                                                                                                                                                      | Existing vegetation along the northern boundary of the site is to be largely retained and supported with new tree planting and landscaping                                                                                                                                                                                             | Complies           |
| 5 | A similar approach to screening along the eastern boundary of the site should be adopted. Generally it is not considered that there is any conflict between the development of the site and the existing Van Park adjacent. Some softening of the views between the sites would however benefit both existing and future residents.                                                                                                                             | Existing vegetation along the eastern boundary of the site is to be retained where possible and supported with new planting and landscaping forming a dense screen                                                                                                                                                                     | Complies           |
| 6 | Some additional plantings could be established in the south eastern corner of the site. Generally this area is relatively unconstrained but the additional planting would ensure that any development in this area would not be visible from the Highway or from more distant locations to the north of the site.                                                                                                                                               | The landscaping proposal includes perimeter planting including the south east corner of the site. In addition the buildings proposed for the upper contours of this corner are single storey structures.                                                                                                                               | Complies           |
| 7 | Additional plantings should also be located along the western boundary of the site. This planting should aim to fill in gaps presently existing in this relatively dense screen of vegetation on this boundary.                                                                                                                                                                                                                                                 | The landscaping proposal includes perimeter planting including the western boundary of the site                                                                                                                                                                                                                                        | Complies           |
| 8 | Additional plantings approximately located through the mid slopes of the site would also benefit any future development of the site.                                                                                                                                                                                                                                                                                                                            | The landscaping proposal includes street tree and garden bed planting throughout the site                                                                                                                                                                                                                                              | Complies           |
| 9 | Generally all future plantings within the site should be of a character that is similar to existing vegetation within the area. These plantings should be of indigenous species, be of a relatively informal arrangement and should include a variety of vegetation types.                                                                                                                                                                                      | The landscaping proposal includes a planting species list, which comprises a large proportion of indigenous species. In addition, large areas are set aside for revegetation/regrowth of indigenous species                                                                                                                            | Complies           |



## Mitigation measures

The key design intent of the proposal aims to produce a design outcome that fits sensitively with the existing qualities and characteristics of the area. In order to achieve this, a range of mitigation measures have been incorporated into the project as the concept has developed. These measures combine to develop a solution that seeks to protect and enhance the existing visual character of the area and minimise impacts on neighbouring properties.

Further work is required to develop the final design and opportunities will arise during detail design to produce enhanced outcomes. The following mitigation measures should be used to guide the development of the design.

| VP#            | Element affected                  | Description of mitigation                                                                                                                                                                                                                                                                                   |
|----------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-4, general   | Roofs and gutters                 | <ul style="list-style-type: none"> <li>Greater variety of roof tones in order to 'pixelate' distance views and to improve individual building identification and wayfinding</li> <li>Use of dark green tone to blend roof visually with vegetated background when viewed from distant locations.</li> </ul> |
| 1-4, general   | Facades                           | <ul style="list-style-type: none"> <li>Incorporation of green/grey colour scheme in order to blend upper facades visually with vegetated background when viewed from distant locations and to improve individual building identification and wayfinding</li> </ul>                                          |
| 1-4, general   | Feature facades                   | <ul style="list-style-type: none"> <li>Use of timber and zinc feature cladding is supported as timber tones and darker metal tones assists with visual mitigation from distance views</li> </ul>                                                                                                            |
| 1-3, general   | Feature elements                  | <ul style="list-style-type: none"> <li>Feature soffits and porticos should incorporate feature colours in order to assist with wayfinding. Generally these elements do not create visual impacts from views around the site</li> </ul>                                                                      |
| 1-3, general   | Barriers, balustrades and screens | <ul style="list-style-type: none"> <li>Use of recessive colours is supported to minimise visual impacts from distance views.</li> <li>Note sufficient contrasting colours should also be used to ensure visibility of objects on accessible paths of travel is achieved.</li> </ul>                         |
| 1-4, general   | Streetscape                       | <ul style="list-style-type: none"> <li>All streets are to be planted with street trees in order to reduce bulk and scale of built form when viewed from close range and distant locations and to contribute to amenity and functioning of streets</li> </ul>                                                |
| 1-4, general   | Buffers/ site edges               | <ul style="list-style-type: none"> <li>All site edges of the development are to be densely planted with native vegetation to assist with screening when viewed from neighbouring locations, Windward Way properties, as well to mitigate views the Princes Highway</li> </ul>                               |
| 2 & 3, general | Landscaping                       | <ul style="list-style-type: none"> <li>Landscaping is to be undertaken to the perimeter and within the site to assist with visual amenity and screening</li> </ul>                                                                                                                                          |
| 1-4, general   | Floor/ roof levels                | <ul style="list-style-type: none"> <li>Floor levels are to be kept as low as possible (following bulk earthworks and drainage design) in order to minimise views of roofs and facades from distance views</li> </ul>                                                                                        |
|                |                                   |                                                                                                                                                                                                                                                                                                             |
|                |                                   |                                                                                                                                                                                                                                                                                                             |



# Conclusion

Following a review of landscape context and objectives, principles, strategies and mitigation measures associated with the 2005 proposal, a visual analysis has been undertaken of the current proposal. The assessment has made an initial assessment of visual exposure and has identified recommendations for further consideration in the detailed design stage.

The visual analysis of the proposal represents a qualitative assessment based on the identification of landscape character zones and selected representative viewpoints, which have been determined based on an investigation of landscape and cultural context and an analysis of land use, vegetation, topography and scenic values. Although potential visual impacts resulting from the proposal are greatly reduced by the topography and aspect of the site and the presence of existing vegetation, potential impacts have been identified and mitigation measures proposed in order to address these impacts.

The key mitigation measures for long distance views are:

- Tree planting generally and perimeter revegetation
- Varying roof colours within a recessive tonal range suiting the vegetative backdrop
- Ensuring floor levels/roof levels are as low as possible.

The key mitigation measures for shorter distance and road user views are:

- Tree planting generally and perimeter revegetation
- Incorporation of olive green tones to the architectural finishes
- Ensuring floor levels/roof levels are as low as possible.

The 2005 proposal assessment (*Richard Lamb and Associates, 2005*) concluded that:

*...Generally there are parts of the site, especially the less elevated and more densely screened areas, which are largely unconstrained by potential visual impacts. However, the part of the land adjacent to the Princes Highway to the north and Windward Way to the south remains highly constrained and sensitive to change in visual character.*

*While the land has considerable future potential to absorb development, particularly by reducing visual exposure and also reducing potential impacts by using vegetation in an integrated regeneration and landscape design approach, the more highly constrained parts of the site need to be respected and their existing scenic quality and rural character acknowledged.*

*Parts of the site identified as being of moderate or lower visual exposure and less constrained could appropriately be developed using the recommendations provided above as a foundation.*

The current proposal has respected these outcomes and fully or partially complies with the associated recommendations/ principles. This is demonstrated by the Development Principles matrix and the Visual Assessment matrix, which focuses on the more highly constrained viewpoints and indicates impact levels ranging from Moderate to Low. Despite the larger development footprint, the current proposal has met the requirements of the previous 2005 scheme and attempts to further reduce visual exposure through sensitive design and application of mitigation measures.



# Appendices

The following appendices have been prepared with this report:

VA01 Visual Analysis Context Plan [1:2000]\_revF

VA02 Visual Analysis Character Plan [1:100]\_revF

VA03 Visual Analysis & Mitigation Plan [1:100]\_revF

VA04 Visual Analysis View 01\_revC

VA05 Visual Analysis View 02\_revC

VA04 Visual Analysis View 03\_revF

VA05 Visual Analysis View 04\_revF.





**LEGEND**

**Existing Features**

- 1 Milton Tourist Van Park
- 2 Shoalhaven Anglican School
- 3 Milton Showground
- 4 Helipad
- 5 Proposed Vehicle Entry

**General**

- Subject Site
- Site Boundary
- Constraints Boundary

**Existing Feature**

- Existing Road - Highway
- Existing Road - Major
- Existing Road - Minor

**Visual Analysis**

- Potential Viewpoint - General
- Potential Viewpoint - Cultural
- Potential Viewpoint - Heritage
- Visual Envelope - 25m
- Visual Envelope - 50m
- Visual Envelope - 100m
- Visual Envelope - 250m
- Visual Envelope - Contour (approx.)
- Visual Envelope - Built Form (approx.)
- Proposed Footpath

**Built Form**

- Building 1 - Residential Care Facility
- Building 2 - Clubhouse/ Medical Centre
- Building 3 - Apartments (3 Storey)
- Building 4 - Duplex
- Building 5 - Triplex

**Notes:**

1. For viewpoint images and analysis tables refer to Visual Analysis Summary Report by Scape Design

VA01

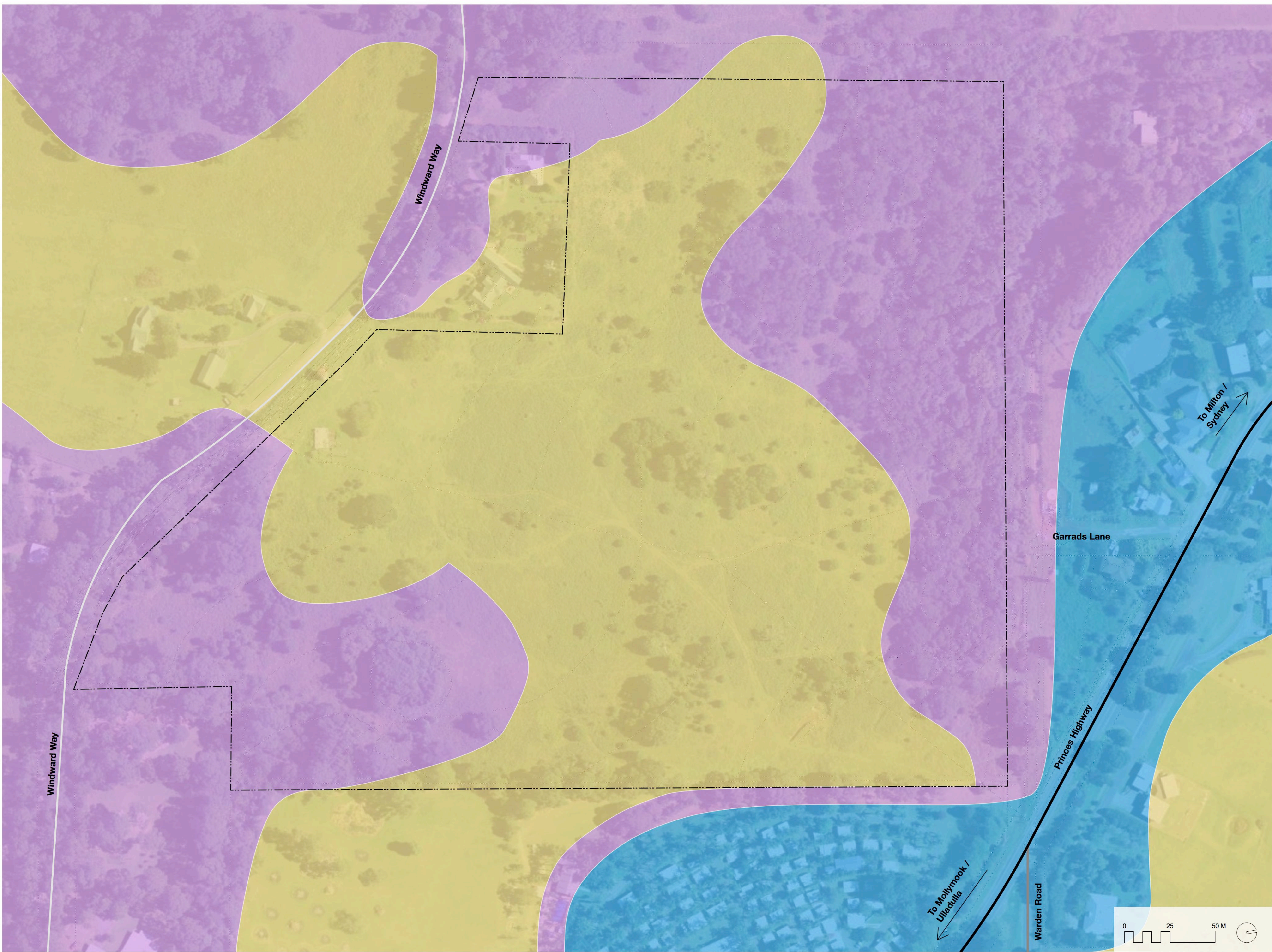
SENIORS HOUSING DEVELOPMENT

Aansca Property Group Pty Ltd c/- Stephen Jones Associates  
Lot 1 DP 780801, Windward Way, Milton, NSW

Visual Analysis Context Plan

scape design  
LANDSCAPE ARCHITECTURE  
2-6 Smith Lane  
Manly NSW 2095  
www.sapedesign.com.au





- LEGEND
- General
- Site Boundary
- Existing Feature
- Existing Road - Highway
  - Existing Road - Major
  - Existing Road - Minor
- Character Zones
- Zone 1 - Rural - Residential Lands
  - Zone 2 - Vegetated Gullies & Ridges
  - Zone 3 - Highway Urban Development

Existing Character  
Zone 1 - Rural / Residential Lands



Zone 2 - Vegetated Gullies and Ridges



Zone 3 - Highway / Urban Development



VA02

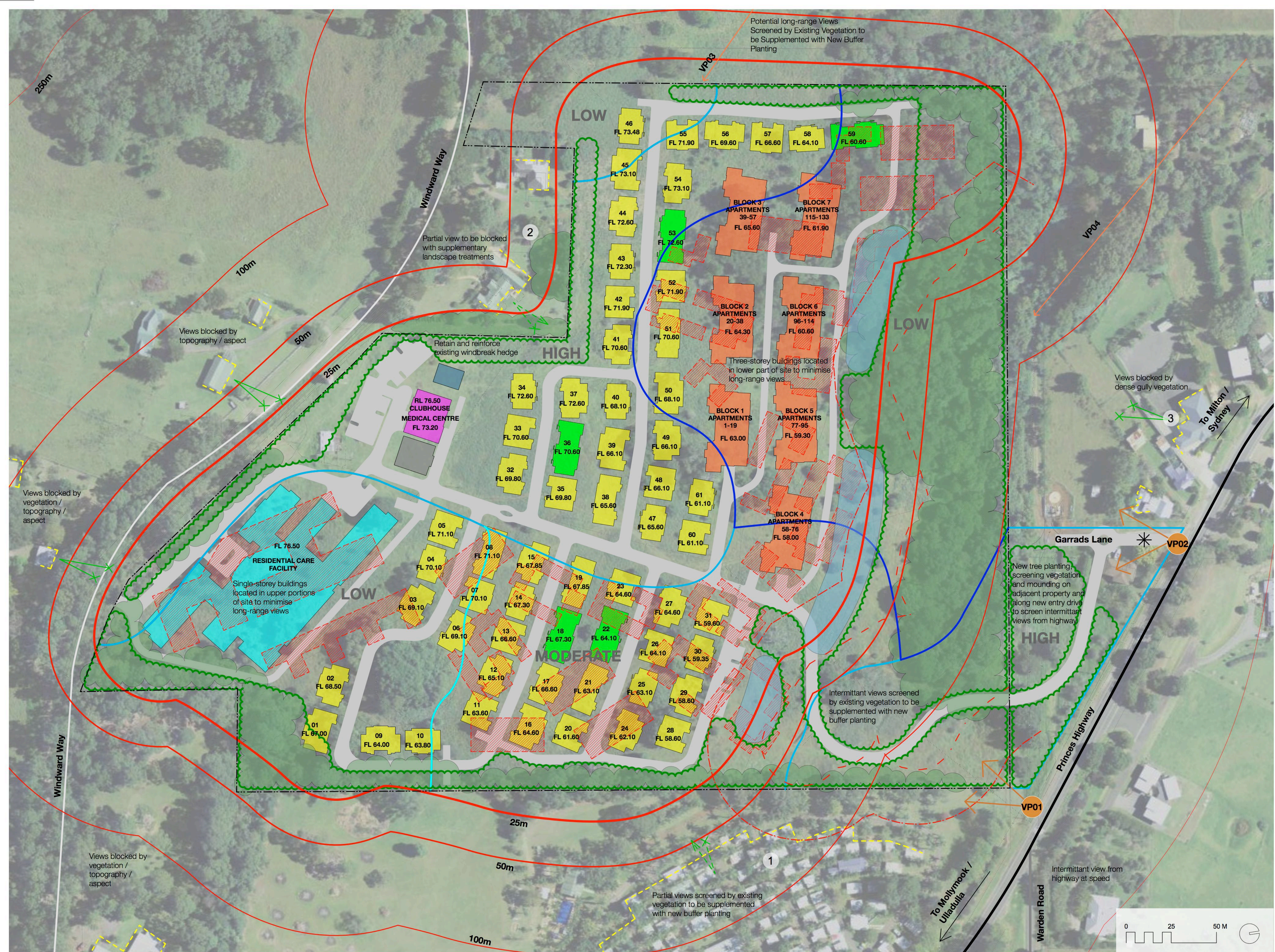
SENIORS HOUSING DEVELOPMENT

Aansca Property Group Pty Ltd c/- Stephen Jones Associates  
Lot 1 DP 780801, Windward Way, Milton, NSW

Visual Analysis Character Plan

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**LEGEND**

**General**

- Site Boundary
- - - Constraints Boundary
- Existing tree approx.

**Existing Feature**

- Existing Road - Highway
- Existing Road - Minor
- 1 Milton Tourist Van Park
- 2 Windward Way Residential Properties
- 3 Princes Highway Residential Properties
- Existing Trees

**Visual Analysis**

- # Potential Viewpoint - General
- # Potential Viewpoint - Cultural
- # Potential Viewpoint - Heritage
- Visual Envelope - 25m
- Visual Envelope - 50m
- Visual Envelope - 100m
- Visual Envelope - 250m
- Visual Edge - Built Form (approx.)
- Viewpoint Visual Field Approx.
- Blocked View Approx.
- Intermittent or Partial View
- Mitigation Measure (Refer Report)
- Visual Exposure - Low
- Visual Exposure - Moderate
- Visual Exposure - High
- Asset Protection Zone Line
- Lep - E2 Zone Line

**Proposed Features**

- Building 1 - Residential Care Facility
- Building 2 - Clubhouse/ Medical Centre
- Building 3 - Apartments (3 Storey)
- Building 4 - Duplex
- Building 5 - Triplex
- Swimming Pool Area
- Parking Area
- Building - Previous - 2005 Proposal
- Proposed Footpath
- Proposed Detention Ponds
- Proposed Vehicle Entry

**Mitigation Measures**

- Proposed Revegetation and Screen Planting

**Notes:**

- For viewpoint analysis tables refer to Visual Analysis Summary Report by Scape Design
- For long-range viewpoint locations refer to drawing VA01
- All buildings single storey unless stated otherwise
- Visual exposure categories defined by Richard Lamb Associates, Visual & Landscape Constraints Report, 2005

VA03

## SENIORS HOUSING DEVELOPMENT

Aansca Property Group Pty Ltd c/- Stephen Jones Associates

Lot 1 DP 780801, Windward Way, Milton, NSW

## Visual Analysis & Mitigation Plan

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scape design

LANDSCAPE ARCHITECTURE

2-6 Smith Lane  
Manly NSW 2095  
www.scapedesign.com.au





A



B



C

A - View 1 - Existing

B - View 1 - Proposed with 15m High Boundary Markers

C - View 1 - Proposed with 15m High Boundary Markers & 10 year Growth Boundary Screening

Note: refer visual assessment report by Scape Design for analysis of these views.

VA04

SENIORS HOUSING DEVELOPMENT

Aansca Property Group Pty Ltd c/- Stephen Jones Associates

Lot 1 DP 780801, Windward Way, Milton, NSW

Visual Analysis View 1

scape design

LANDSCAPE ARCHITECTURE

2-6 Smith Lane  
Manly NSW 2095  
www.sapedesign.com.au

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A - View 2 - Existing

B - View 2- Proposed with 15m High Boundary Markers

C - View 2 - Proposed with 15m High Boundary Markers & 10 year Growth Street Planting

Note: refer visual assessment report by Scape Design for analysis of these views.





A - View 3 - Existing

B - View 3 - Proposed with 15m High Boundary Markers

C - View 3 - Proposed with 15m High Boundary Markers & 10 year Growth Boundary Planting

Note: refer visual assessment report by Scape Design for analysis of these views.





A - View 4 - Existing

B - View 4 - Proposed with 15m High Boundary Markers

C - View 4 - Proposed with 15m High Boundary Markers & 10 year Growth Boundary Planting

Note: refer visual assessment report by Scape Design for analysis of these views.





Ref: [SL110-16 Milton Seniors]

19 October 2018

Aansca Property Group

Attention: David T Calgaro

cc: Mairead Hawes | Hawes and Swan Planning

**RE: SENIORS HOUSING 'MILTON MEADOWS' - LOT 1 DP 780801, WINDWARD WAY, MILTON, NSW - VISUAL ASSESSMENT ADDENDUM MEMO**

David

At your request we have reviewed recent changes to the proposal for the Milton Seniors Development 'Milton Meadows', and have undertaken a high level review of potential impacts to the Visual Assessment Report\_revE.

**KEY CHANGES ASSESSED**

The key changes assessed are as follows:

- Realignment and shortening of the northern entry drive to remove the connection with Garrads Lane (civil drawing 160529-C13\_revE by Greenview Consulting)
- Relocation of the local road network connection from a roundabout intersection with Garrads Lane to a intersection with the Pacific Highway (subject to RMS approval) (Drawing 1806-C04\_rev1 by Footprint Sustainable Engineering)
- Design of a new service lane connecting the entry drive with Garrads Lane (civil drawing 160529-C13\_revE by Greenview Consulting)
- Adjustments to revegetation and planting resulting from the civil & traffic adjustments (drawing 16-3351-L05 by Zenith Landscape Designs).

**AFFECTED VIEWPOINTS**

With reference to the VA Report and drawings VA01 & VA03-05 (May 2018), the viewpoints previously assessed, which would be potentially impacted by the changes are as follows:

- VP01: From the Pacific Highway verge at the north eastern corner of the site
- VP02: At the intersection of Garrads Lane with the Pacific Highway
- R5: On the Pacific Highway near a set of existing gates into the property (about 30m west of the north eastern corner of the site)
- R6: On the Pacific Highway, about 100m west of the north eastern corner of the site and 50m east of Garrads Lane.

**NEW POTENTIAL IMPACTS**

New potential new impacts would be experienced by residents of two properties on the northern side of the highway, west of the intersection with Warden Road. These properties are accessed via an unnamed service road that runs parallel to the highway, and which is connected to the highway via a small stub located approximately 100m west of Warden Road and 100m east of Garrads Lane.

**HIGH LEVEL ASSESSMENT**

A high level assessment of the changes has been undertaken, which is summarised in the following table:

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ABN 79 568 162 276



| VP#      | Description of setting                                                  | Distance to built form (m)             | Elements of proposal considered                                                                                                                                                      | Sensitivity                                                                                                                                                                                                                                                                                                                       | Magnitude                                                                                                                                                                                                                                                                                                                                  | Previous Impact | New Impact      |
|----------|-------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| 01       | View from edge of highway, north eastern corner of the site             | 150 m approx<br><br>30m approx         | Partial roofs and facades of buildings, architectural finishes, tree planting.<br><br>New intersection with Pacific Highway                                                          | Moderate <ul style="list-style-type: none"> <li>Close views but tightly framed by vegetation</li> <li>Range of (mainly transient) viewer types</li> <li>Visual horizon intact</li> <li>Locally valued undulating rural landscape with patches of native vegetation.</li> </ul>                                                    | Moderate <ul style="list-style-type: none"> <li>Views screened by vegetation, however existing vegetation reduced by entry drive</li> <li>Roofs and upper level facades only visible elements</li> <li>Minor widening of pavement on existing highway</li> <li>Non-signalised, so only minor additional signage/road furniture.</li> </ul> | Moderate        | Moderate        |
| 02       | View from edge of highway, intersection with Garrads Lane               | 200 m approx<br><br>50m approx         | Partial roofs and facades of buildings, architectural finishes, tree planting<br><br>Entry drive and roundabout removed from centre of street, service lane added near end of street | Moderate <ul style="list-style-type: none"> <li>Close views but tightly framed by vegetation</li> <li>Existing residential properties not facing proposal directly</li> <li>Range of viewer types</li> <li>Visual horizon intact</li> <li>Locally valued undulating rural landscape with patches of native vegetation.</li> </ul> | Low <ul style="list-style-type: none"> <li>Views screened by vegetation</li> <li>Roofs and upper level facades only visible elements</li> <li>Minor widening of pavement at end of existing road</li> <li>removal of proposed roundabout intersection.</li> </ul>                                                                          | Moderate to low | Moderate to low |
| R5<br>R6 | Highway - Vegetated roadside, undulating topography, vegetated backdrop | 100-300 m approx.<br><br>20-50m approx | Entry driveway, partial roofs and facades of buildings, architectural finishes, tree planting and landscaping<br><br>New intersection with Pacific Highway                           | Low <ul style="list-style-type: none"> <li>Existing highway environment.</li> </ul>                                                                                                                                                                                                                                               | Low <ul style="list-style-type: none"> <li>Minor widening of pavement on existing highway</li> <li>Non-signalised, traffic likely to unaffected.</li> </ul>                                                                                                                                                                                | Low             | Moderate to low |
| -        | Properties on Pacific Highway northern verge                            | 50-100m approx                         | New intersection with Pacific Highway                                                                                                                                                | Low <ul style="list-style-type: none"> <li>Close proximity, however property aspect is north (away from proposed intersection)</li> <li>Dense screening vegetation along highway</li> </ul>                                                                                                                                       | Low <ul style="list-style-type: none"> <li>Existing access via stub and service road unimpeded</li> </ul>                                                                                                                                                                                                                                  | Low             | Low             |



## CONCLUSION

In consideration of the above analysis of modifications to the scope of the proposal and potential impacts to the previous assessment, we expect that changes would have no increased impacts to previously assessed viewpoints, apart from a minor increase in visual impacts to road users.

Yours faithfully,  
Scape Design

A handwritten signature in black ink, appearing to read 'Chris Houghton', with a stylized, sweeping flourish at the end.

CHRIS HOUGHTON RLA AILA  
Director