# Anketell Road Upgrade (Leath Road to Kwinana Freeway)

## Proposal Content Document

**Table 1:** General proposal content description

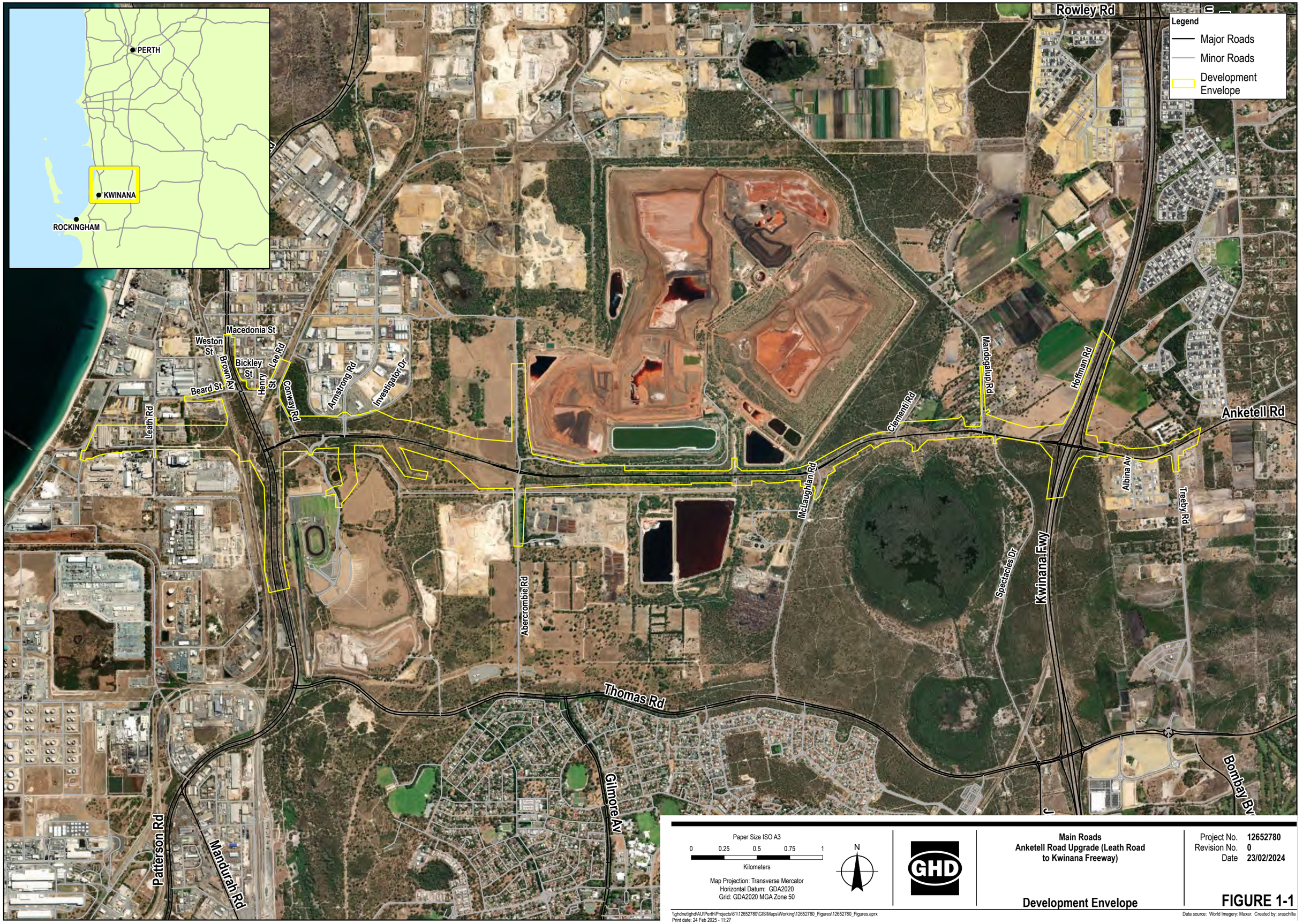
| | |
|---|---|
| **Proposal title** | Anketell Road Upgrade (Leath Road to Kwinana Freeway) |
| **Proponent name** | Main Roads Western Australia |
| **Short description** | Main Roads is proposing to upgrade and widen Anketell Road to an Expressway Standard for approximately 7.5 km between Leath Road and Kwinana Freeway in the City of Kwinana, WA. The Proposal will include grade separated interchanges at six locations, grade separation of road over rail at two locations and other supporting road infrastructure. |

**Table 2:** Proposal content elements

| Proposal element | Location and description | Existing extent, capacity or range | Proposed amendment | Combined extent, capacity or range |
|---|---|---|---|---|
| **Physical elements** | | | | |
| The proposal includes the following physical elements:<br>• 7.5 km of new urban expressway standard, dual carriageway.<br>• Grade separated interchanges at Treeby Road and Kwinana Freeway, Mandogalup Road, Abercrombie Road, Armstrong Road and Rockingham Road.<br>• Grade separations of Rockingham Road and Anketell Road over rail.<br>• New local roads and existing road modifications, including upgrades at Rockingham Road.<br>• Drainage basins, drains and other associated infrastructure. | Proposal Development Envelope (DE) in Figure 1. | • DE 221.09 ha<br>• Native Vegetation clearing or disturbance of up to 96.20 ha<br>• 47.98 ha of non-native vegetation. | • DE increase by 3.74 ha.<br>• Native Vegetation clearing or disturbance reduced by 3.98 ha<br>• Increase of 2.37 ha of non-native vegetation | • DE 224.83 ha<br>• Native Vegetation clearing or disturbance of up to 92.22 ha<br>• 50.35 ha non-native vegetation. |

| | | | | |
|---|---|---|---|---|
| • Shared Path (SP) for the full length of the Proposal.<br>• Other road infrastructure, including but not limited to culverts, lighting, fencing, landscaping, road safety barriers and signs.<br>• Utility relocations and works to maintain access to properties. | | | | |
| **Construction elements** | | | | |
| Construction activities associated with the physical elements are likely to include:<br>• earthworks<br>• laydown<br>• piling<br>• excavation<br>• water abstraction<br>• dewatering<br>• drainage improvements, and<br>• landscaping. | Proposal DE in Figure 1. | Construction will occur within the 221.09 ha DE. | 3.74 ha increase in DE. | Construction will occur within the 224.83 ha DE. |
| **Operational elements** | | | | |
| Main Roads will operate the Proposal using standard management and maintenance practices. | Proposal DE in Figure 1. | Operation will occur within the 221.09 ha DE. | 3.74 ha increase in DE. | Operation will occur within the 224.83 ha DE. |
| **Proposal elements with greenhouse gas emissions** | | | | |
| Construction elements: | | | | |
| Scope 1 | Land use change – vegetation clearing: 25,364 tCO2-e over 36 months<br>Plant and equipment: 15,783 tCO2-e over 36 months | | No change | |
| Scope 2 | None | | No change | |
| Scope 3 | All indirect emissions (other than energy/electricity used) that occur in the value chain including both | | No change | |

| | | | | |
|---|---|---|---|---|
| | upstream and downstream emissions. This includes embedded energy within construction materials, construction fuel, haulage – 57,911tCO2-e over 36 months | | | |
| Operation elements: | | | | |
| Scope 1 | Maintenance over road life – 5,235 tCO2-e | | No change | |
| Scope 2 | Electricity use over road life - 3,192 tCO2-e | | No change | |
| Scope 3 | All indirect emissions (other than energy/electricity used) that occur in the value chain including both upstream and downstream emissions. This includes emissions associated with the supply of maintenance materials – 10,337 tCO2-e and vehicle user emissions – 2,108,475 tCO2-e over 50 years. | | No change | |
| **Rehabilitation** | | | | |
| Areas of the road reserve which are cleared for construction purposes and are not required to remain cleared for the operation or maintenance of the road or associated infrastructure will be landscaped with vegetation. | | | | |
| **Other elements which affect extent of effects on the environment** | | | | |
| Proposal time* | Maximum project life | 70 years | No change | 70 years |
| | Construction phase | 2 years | No change | 2 years |
| | Operations phase | 70 years | No change | 70 years |




Paper Size ISO A3

0 0.25 0.5 0.75 1

Kilometers

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 50

N

GHD

**Main Roads**
**Anketell Road Upgrade (Leath Road to Kwinana Freeway)**

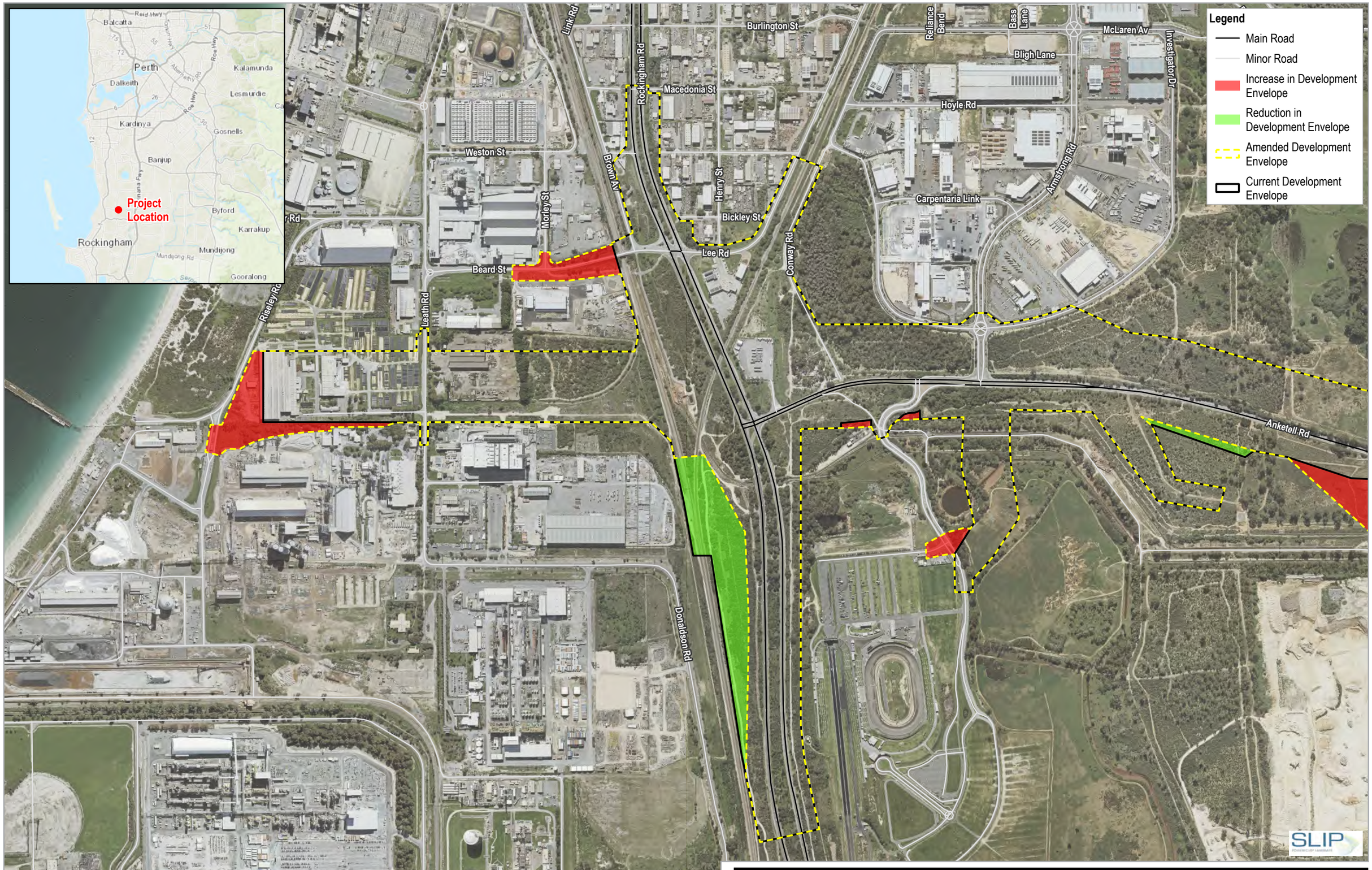
**Development Envelope**

Project No. **12652780**
Revision No. **0**
Date **23/02/2024**

**FIGURE 1-1**

\\ghdnet\ghd\AU\Perth\Projects\61\12652780\GIS\Maps\Working\12652780_Figures\12652780_Figures.aprx
Print date: 24 Feb 2025 - 11:27

Data source: World Imagery: Maxar. Created by: sraschilla




Paper Size ISO A3

0 100 200 300

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 50

N

GHD

**Main Roads**
**Anketell Road Upgrade (Leath Road to Kwinana Freeway)**
**s.43A amendment**

## Amended Development Envelope

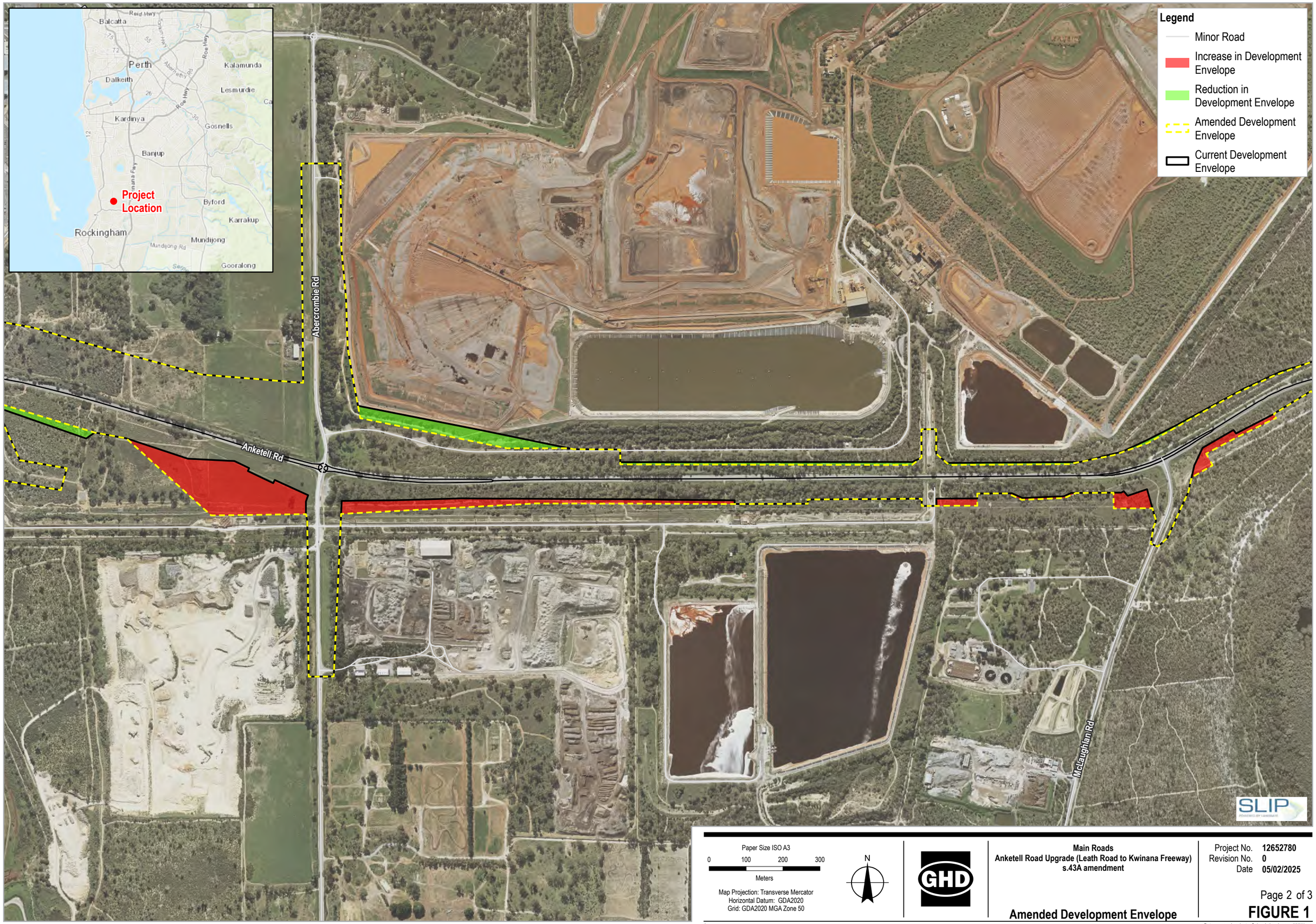
Project No. **12652780**
Revision No. **0**
Date **05/02/2025**



**FIGURE 1**

\\ghdnet\ghd\AU\Perth\Projects\61\12652780\GIS\Maps\Working\12652780_Figures\12652780_Figures.aprx\12652780_001_AmendedDevelopmentEnvelope_Re
Print date: 05 Feb 2025 - 12:28

Data source: Landgate_Subscription_Imagery\WANow: World Topographic Map: Esri, HERE, Garmin, USGS, NGA. Created by: sraschilla




Paper Size ISO A3

0 100 200 300

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 50

N

GHD

**Main Roads**
**Anketell Road Upgrade (Leath Road to Kwinana Freeway)**
**s.43A amendment**

## Amended Development Envelope

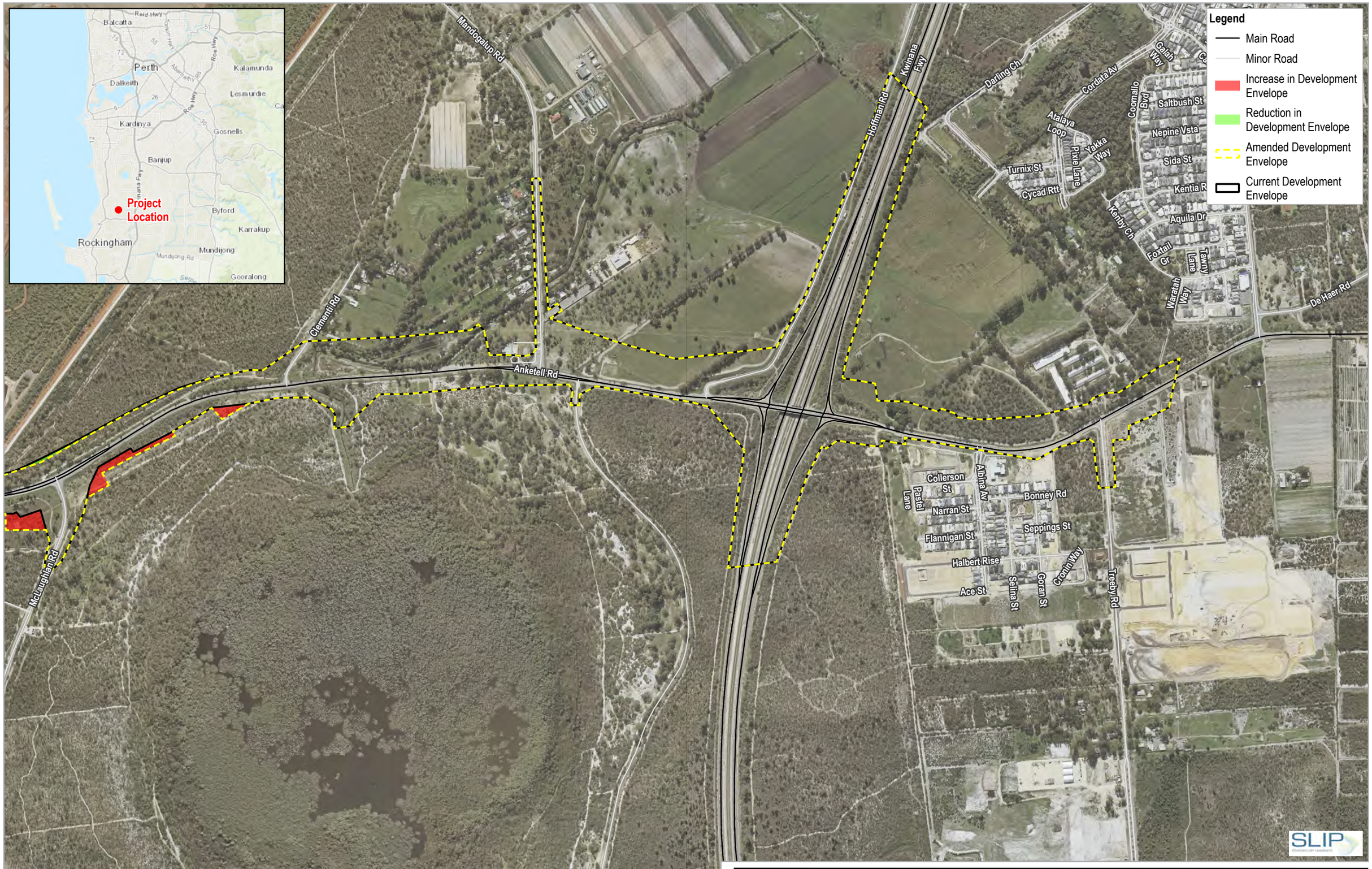
Project No. **12652780**
Revision No. **0**
Date **05/02/2025**



**FIGURE 1**

\\ghdnet\ghd\AU\Perth\Projects\61\12652780\GIS\Maps\Working\12652780_Figures\12652780_Figures.aprx\12652780_001_AmendedDevelopmentEnvelope_Re
Print date: 05 Feb 2025 - 12:28

Data source: Landgate_Subscription_Imagery\WANow: World Topographic Map: Esri, HERE, Garmin, USGS, NGA. Created by: sraschilla




Paper Size ISO A3

0 100 200 300

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 50

N

GHD

**Main Roads**
**Anketell Road Upgrade (Leath Road to Kwinana Freeway)**
**s.43A amendment**

## Amended Development Envelope

Project No. **12652780**
Revision No. **0**
Date **05/02/2025**



**FIGURE 1**

\\ghdnet\ghd\AU\Perth\Projects\61\12652780\GIS\Maps\Working\12652780_Figures\12652780_Figures.aprx\12652780_001_AmendedDevelopmentEnvelope_Re
Print date: 05 Feb 2025 - 12:29

Data source: Landgate_Subscription_Imagery\WANow: World Topographic Map: Esri, HERE, Garmin, USGS, NGA. Created by: sraschilla