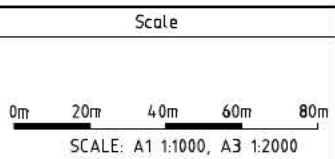


LEGEND

- ▬ INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- ▬ CHANGE SPEED LIMIT
- ▬ INSTALL SAFETY BARRIER
- ▬ CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- ▬ CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- ▬ CLEAR VEGETATION

AMENDMENTS		
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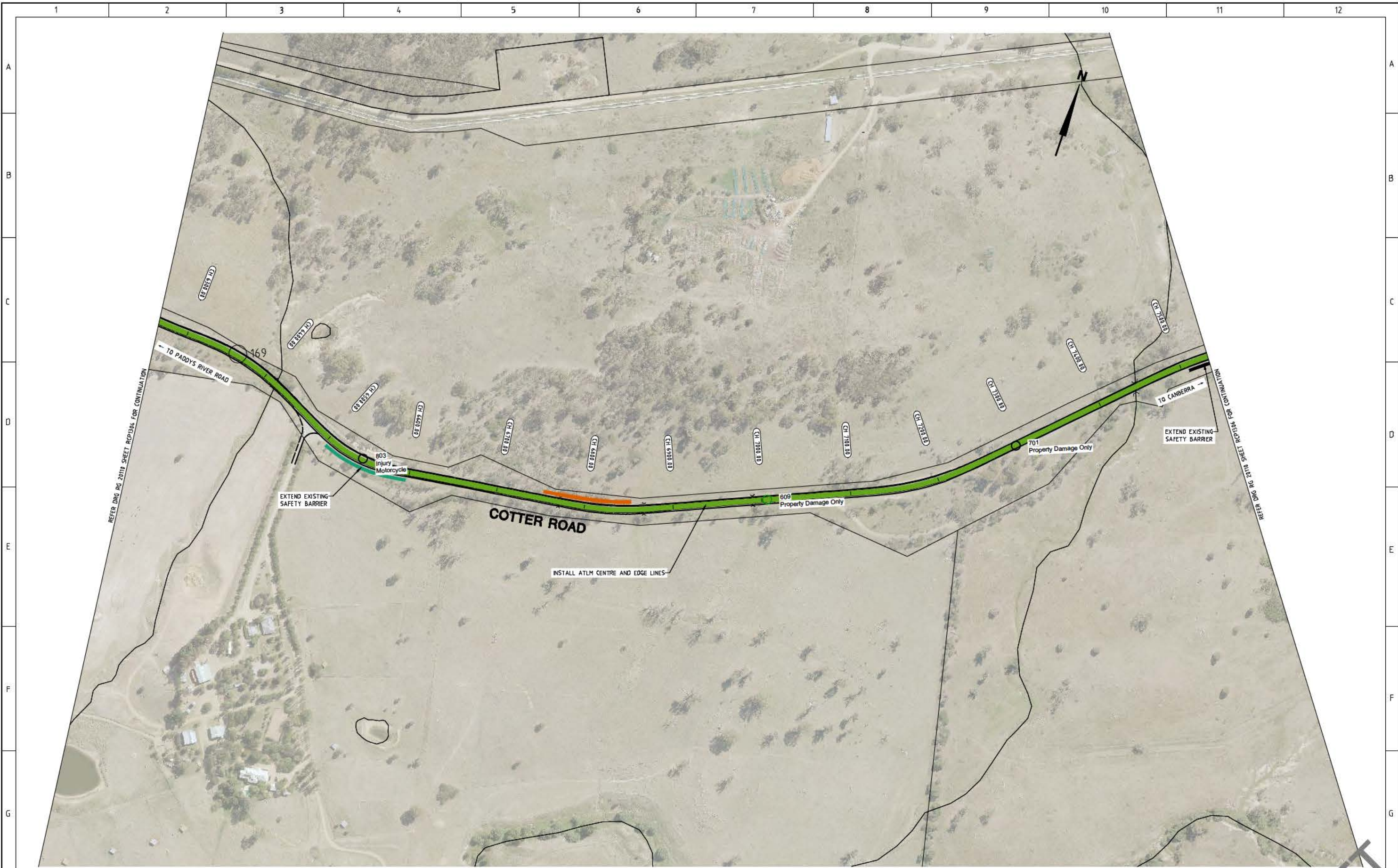
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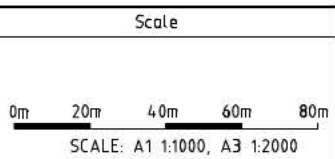
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LEGEND

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AMENDMENTS		
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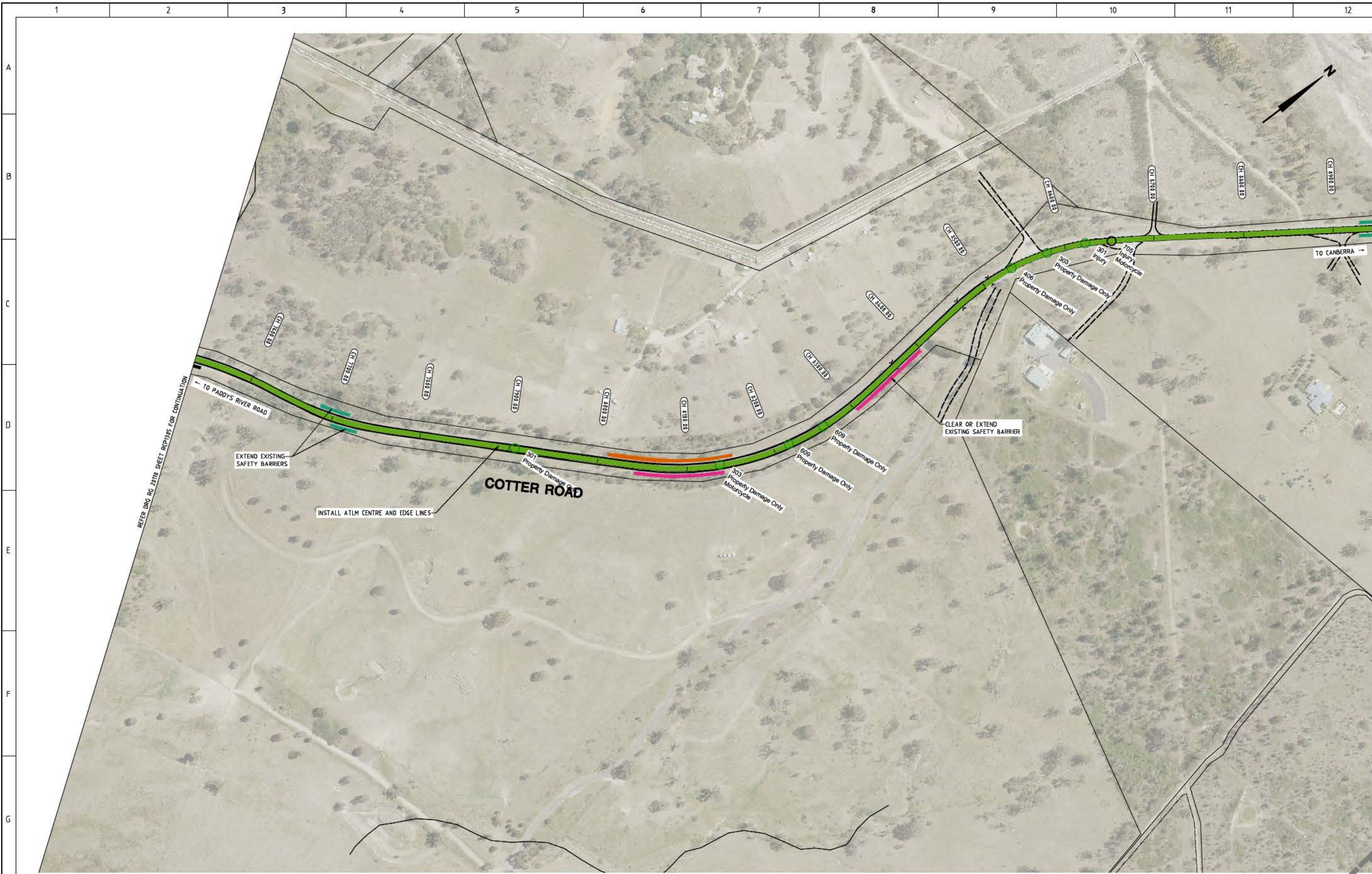
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Drawing Title

COTTER ROAD
CONCEPT SKETCH
SHEET 5 OF 7

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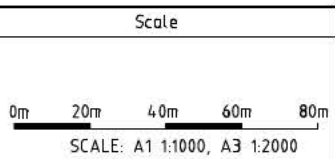
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LEGEND

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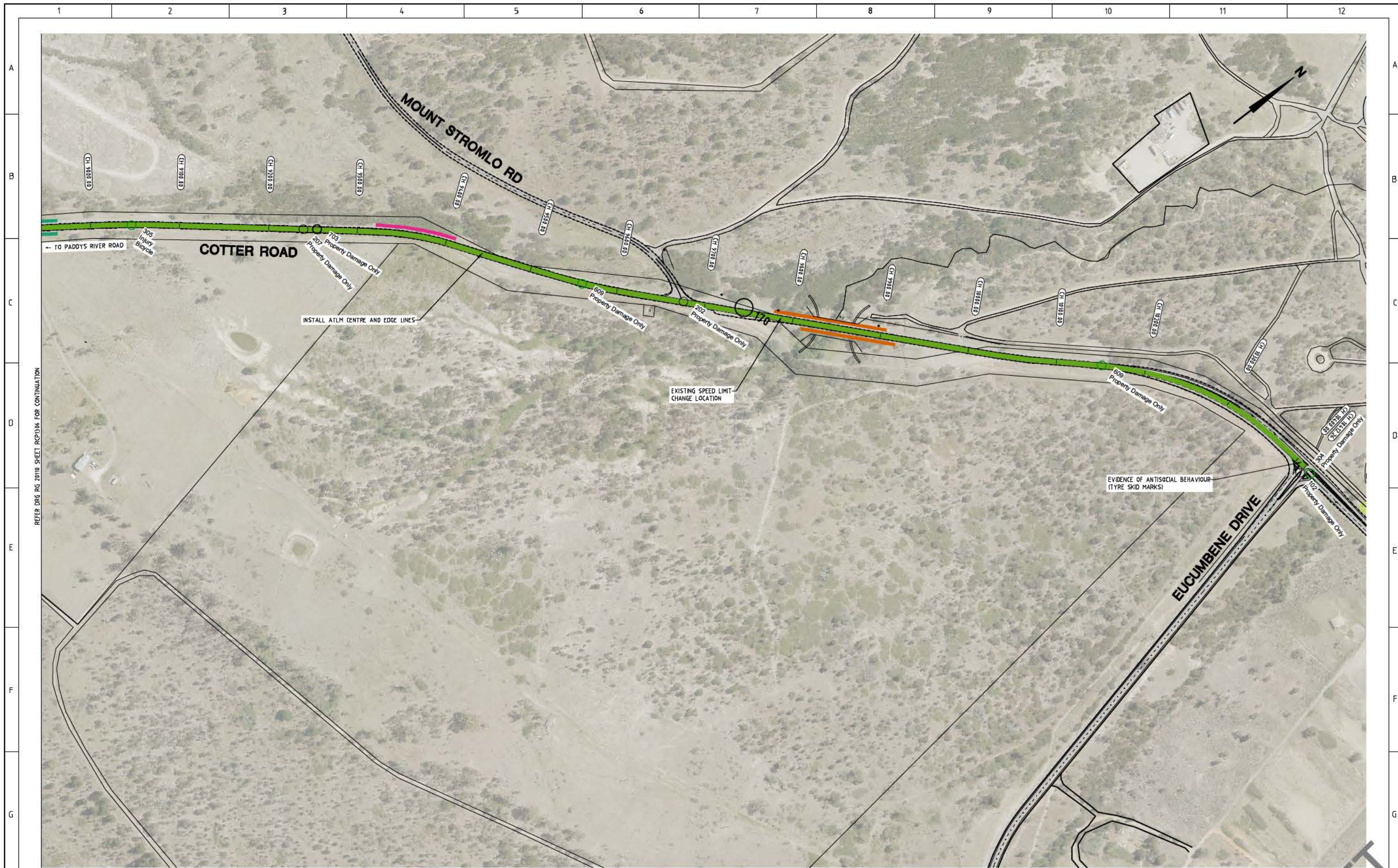
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Project	Drawing Title
DELIVERING ANRAM	COTTER ROAD CONCEPT SKETCH SHEET 6 OF 7
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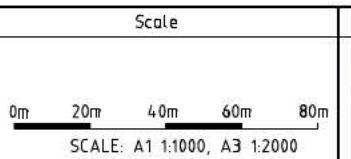


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LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
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DELIVERING ANRAM	COTTER ROAD CONCEPT SKETCH SHEET 7 OF 7
Date: 02/03/21	Drg. No: RG 20110
	Sheet: RCP1307
	Revision: 0

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ACT
Government

Transport Canberra and City Services

**DELIVERING ANRAM – REDUCING RISK OF
FATAL AND SERIOUS INJURY CRASHES ON
ARTERIAL ROADS**

**ADDITIONAL RURAL ROADS DESIGN OPTION
STUDY**

TRANSPORT CANBERRA AND CITY SERVICES

FINAL

RG 20110-7/ 2

01 SEPTEMBER 2021



Consulting Engineers

DELIVERING ANRAM – REDUCING RISK OF FATAL AND SERIOUS INJURY CRASHES ON ARTERIAL ROADS

ADDITIONAL RURAL ROADS DESIGN OPTION STUDY

Prepared for Transport Canberra and City Services

Document Register

Revision	Date	Details	Author	Verifier	Reviewed
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1	18/06/21	Amended Draft report	█	█	█
2	1/09/21	Final	█	█	█

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1. INTRODUCTION

1.1 Objective

RD Gossip (RDG) was commissioned by Infrastructure Delivery Partners Group (IDP) on behalf of Transport Canberra and City Services (TCCS) to undertake the Delivering ANRAM – Reducing Risk of Fatal and Serious Injury Crashes on Arterial Roads project.

ARRB completed the ACT Arterial Roads AusRAP and ANRAM Assessment in May 2019. The study was based on an inspection of the arterial roads in June 2018 and the review of collision data from 2013 to 2017. The study separated the rural roads into sections to evaluate, and allocated the International Road Assessment Program (iRAP) star ratings (ranging between 1 (low) and 5 (high) stars). A target of 3 stars or greater is the goal for providing a safe rural arterial road network. The study identified that 77% of the rural arterial roads surveyed achieved a score of 1 or 2 stars.

The Objectives of the project are:

- “To undertake further detailed investigation, prioritisation and documentation of road safety improvement works for implementation in stages on the basis of AusRAP and ANRAM assessments undertaken in 2019.
- To improve and facilitate road safety by developing practical measures to reduce the risk of fatalities and serious injuries;
- To review the prioritisation order proposed by Roads ACT for the Urban roads to achieve the long-term goal of having all arterial roads in the ACT 3-star rated or higher;
- To study the feasibility of implementing the proposed safety improvements in the Rural roads; and
- To prepare detailed designs and document readiness documents for the prioritised Urban road sites and selected rural road sites in packages as will be agreed with Roads ACT during the course of the study.”

These objectives are to improve the arterial road network safety throughout the ACT. The project comprises two key components, an assessment of urban arterial roads and an assessment of rural arterial roads.

This report covers the additional rural arterial roads selected for review, post review of the initial 13 sections.

2. SELECTED SITES

The following roads were identified for this study for the rural component of this project:

2.1 Paddys River Road

Paddys River Road is a rural arterial road providing a connection between Cotter Road and Tidbinbilla Road and is used as a prominent on-road cycling route.

The road can be separated into two segments. The northern segment is a two way two lane undivided road that passes through a forestry area for circa 8.4 km. It is mostly mountainous terrain with a priority controlled T-intersection to Cotter Dam and several T-intersections to gravel fire trails. The speed limit on this segment changes between 100 km/h, 60 km/h and 40 km/h (at the northern end where it changes to Cotter Road).

The southern segment is a two way two lane undivided road that passes through agricultural areas for circa 7.7 km. It is mostly undulating terrain with a priority controlled T-intersection with Discovery Drive (access to Canberra Space Centre) and several property driveways. The speed limit on this segment is 100 km/h.

The ARRB ANRAM study separated Paddys River Road into six sections.

Paddys River Road will be referred to as **Rural Site 14**.

The ARRB report proposed the following treatments:

- Reduced speed limit;
- Roadside barriers, and
- Audio Tactile Line Marking (ATLM).

2.2 Tidbinbilla Road

Tidbinbilla Road is a rural arterial road providing a connection between Paddys River Road and Tharwa and is used as a prominent on-road cycling route.

The road is a two way two lane undivided road that passes through agricultural areas for circa 17.1 km. It is mostly undulating terrain with priority controlled T-intersections with Tidbinbilla Reserve Road, Point Hut Road, Corin Road and Booroomba Road and several property driveways. The speed limit on Tidbinbilla Road is 100 km/h (excluding the section within Tharwa referred to as North Road).

The ARRB ANRAM study separated Tidbinbilla Road into six sections.

Tidbinbilla Road will be referred to as **Rural Site 15**.

The ARRB report proposed the following treatments:

- Reduced speed limit;
- Roadside barriers, and
- Audio Tactile Line Marking (ATLM).

2.3 Naas Road

Naas Road is a rural arterial road providing a connection between Tharwa and Boboyan Road.

The road is a two way two lane undivided road that passes through agricultural areas for circa 11.4 km. It is mostly undulating terrain with priority controlled T-intersections with Smiths Road, Sunshine Road and Apollo Road and several property driveways, including the Namadgi Visitor Centre. The speed limit varies between 50 km/h, 60 km/h, 80 km/h and 100 km/h.

The ARRB ANRAM study separated Naas Road into three sections.

Naas Road will be referred to as **Rural Site 16**.

The ARRB report proposed the following treatments:

- Reduced speed limit;
- Roadside barriers, and
- Audio Tactile Line Marking (ATLM).

3. REVIEW OF AVAILABLE INFORMATION

3.1 ARRB Study

ARRB completed the ACT Arterial Roads AusRAP and ANRAM Assessment in May 2019. The study was based on a video inspection of the arterial roads in June 2018 and the review of collision data from 2013 to 2017. The study separated the rural roads into sections to evaluate and allocated International Road Assessment Program (iRAP) star ratings (ranging between 1 (low) and 5 (high) stars). A target of 3 stars or greater is the goal for providing a safe rural arterial road network. The study identified that 77% of the rural arterial roads surveyed achieved a score of 1 or 2 stars.

The study identified the following road attributes that contributed to the allocated 1 and 2 star ratings:

- Speed limit – 80 km/h or higher;
- Roadside objects – non frangible objects and unrecoverable verges;
- Distance to the roadside object – roadside objects in the clear zone (5 m was used in the study), and
- Carriageway – undivided carriageway, increasing the risk of crashes such as head-on collisions.

To counter and improve the star rating, the following treatment options were assessed:

- Reduced speed limit – 42.9% reduction in total Fatal and Serious Injury (FSI) crashes expected over the next five years.
- ATLM – 36.7% reduction in total FSI crashes expected over the next five years.
- ATLM plus roadside barriers – 72.9% reduction in total FSI crashes expected over the next five years.
- ATLM plus roadside and median barriers – 73.1% reduction in total FSI crashes expected for the next five years.

Improvements to intersections (signalise selected seagull intersections) were also assessed, however, these improvements are proposed to be assessed in a separate project and are not associated with this study.

3.2 Traffic and Speed data

Traffic data that was collected from mid-March 2020 would have been influenced by changes in travel patterns associated with COVID-19. The ACT shutdown period started 23 March 2020, with other states and territories undertaking similar precautionary measures. Although the shutdown has ended and there are no more restrictions in the ACT and NSW travel patterns have changed.

An assessment of volumes of historical traffic data indicated that traffic volumes reduced during the initial stages of the COVID shutdown period by circa 10% to 30% (depending on location and shutdown period). It is not expected that the reduction in traffic would have significantly impacted the mean and 85th percentile speed of road users during the shutdown period.

3.2.1 Rural Site 14 – Paddys River Road

Traffic data was provided for the Paddys River Road for the section of road between Discovery Drive and Tidbinbilla Reserve Road for a week starting 18 September 2020. This data was collected during the COVID-19 shutdown period. The available traffic data is provided in **Table 3-1**.

Table 3-1 Rural Site 14 – Paddys River Road Traffic Volumes and Speed Data

Towards	Weekday Average (vpd)	Weekday Average Speed (km/h)	Weekday 85 %ile Speed (km/h)
Discovery Drive (NB)	1,280	86.4	99.2
Tidbinbilla Reserve Road (SB)	1,244	84.7	99.2
Total Volume	2,524		

The data indicates under 6,000 vpd used this section of Paddys River Road, even with the 30% adjustment to account for the impacts associated with COVID-19.

The speed data indicates that the average road user complies with the 100 km/h speed limit.

3.2.2 Rural Site 15 – Tidbinbilla Road

Traffic data was provided for Tidbinbilla Road for the section of road between Point Hut Road and Naas Road for a week starting 18 September 2020. This data was collected during the COVID-19 shutdown period. The available traffic data is provided in **Table 3-1**.

Table 3-2 Rural Site 15 – Tidbinbilla Road Traffic Volumes and Speed Data

Towards	Weekday Average (vpd)	Weekday Average Speed (km/h)	Weekday 85 %ile Speed (km/h)
Point Hut Road (NB)	608	91.3	108.3
Naas Road (SB)	575	90.2	108.2
Total Volume	1,183		

The data indicates under 6,000 vpd used this section of Tidbinbilla Road, even with the 30% adjustment to account for the impacts associated with COVID-19.

The speed data indicates that the average road user complies with the current 100 km/h speed limit. However, the 85th percentile speed is over the 100 km/h speed limit by circa 8%.

3.2.3 Rural Site 16 – Naas Road

No traffic and speed data was provided for Naas Road. Given the location, it is anticipated that daily traffic volumes would be less than 500 vpd. It is expected that the speed would vary depending on the location. However, it is anticipated that the travel speed would be lower than the default 100 km/h rural speed limit due to the geometry of the road.

Traffic and speed data has been arranged for collection on Boboyan Road (south of Naas Road). Due to the proximity, the Boboyan Road data is considered satisfactory to provide a comparison with Naas Road. Therefore, the collection of traffic data on Naas Road is not considered required.

3.3 Collision data

Collision data was provided for the five year period from 1 January 2015 to 31 December 2019 inclusive. A summary of the collisions for each road section is provided in Table 3-3.

Table 3-3 Collision Data Summary

ARRB Section	Collisions						
	Run-off-road	Head-on	Intersection	Other	Pedestrian	Cyclists	Motorcyclists
Rural Site 14 – Paddys River Road							
532							
533	2			4		1 (603)	
534	2			2			5 (506, 801*2, 804, 805)
535				2			5 (801*2, 804*3)
536	1			3			2 (804, 805)
537	1(Fatal)			1			1 (802)
Subtotal	6			12		1	13
Total	32						
Rural Site 15 – Tidbinbilla Road							
607							
608	1						
609	2						
610	2			1			6 (707, 801*2, 802, 803, 804(Fatal))
611				5			1 (705)
612	2			7			
Subtotal	7			13			7
Total	27						
Rural Site 16 – Naas Road							
499	3			1			1 (705)
500				3			1 (805)
501	1			1			
Subtotal	4			5			2
Total	11						

Key points identified from the collision data are provided below:

- The majority of the collisions classified as “other” involved single vehicle collisions with animals. Note there is potential that loss of control collisions (RUM Code 70 and 80 series) could have initiated from the road users avoiding animals on the road (both vehicles and motorcycles).
- Circa a third of collisions on Paddys River Road involved motorcyclists. The majority of the collisions involving motorcyclist were loss of control single vehicle collisions. Barriers installed on this road should consider including motorcycle protection.
- Circa half the motorcycle collisions resulted in injuries.

4. SAFETY IMPROVEMENT TREATMENTS

The ARRB report recommended and assessed the following treatments:

- Speed limit reduction;
- Audio Tactile Line Marking (ATLM), and
- Safety barrier (Roadside).

In addition to the above treatments, the following alternative treatments can also be considered for several of the locations:

- Provide additional clearing within the clear zone;
- Bicycle activated warning signs, and
- Widening pavement and provision of a shoulder.

4.1 Speed Limit Reduction

The reduction of speed has the potential to:

- Reduce the number of loss of control crashes;
- Decrease the stopping distance of a vehicle after the driver reacts to a situation, reducing the chance for a collision to occur;
- The ability to convert a merge of an overtaking lane to a “FORM ONE LANE” arrangement where the new speed limit is less than or equal to 80 km/h;
- Decrease gap acceptance at intersections and driveways;
- Decrease the clear zone distance; and
- Reduce crash severity.

Austrroads Guide to Traffic Management Part 5: Link Management (2020) provides some consideration to the selection of speed limits. Table 7.5 of this guide provides the applicable considerations for the selection of speed for rural roads with undeveloped roadside environments. There are no considerations applicable for a 100 km/h speed limit.

However, in road sections where the road alignment does not provide enough factors to encourage conformance to the speed limit, there would be a high rate of non-compliance. Regular enforcement would be required.

4.1.1 Advantages

- Decrease clear zone distance.
- Reduces the severity of collisions.
- Decreases stopping distance and sight distance requirements.
- Low cost to implement.

4.1.2 Disadvantages

- Driver non-conformance to the reduced speed limit.
- Public complaints to reduced speed limits.
- Increased travel times.

4.1.3 Potential Constraints and Opportunities

- Opportunities to implement different speed limits for various lengths of roads.
- Opportunities to implement speed limits comparable with speed limits on similar road environments.

4.2 Audio Tactile Line Marking

ATLM assists with advising road users through an audio and vibration prompt that the vehicle wheels have crossed the edge or centre line. The purpose of ATLM is to reduce the likelihood of a run-off-road or a head on collision either through the result of distraction, fatigue or poor visibility (rain/ fog).

ATLM can be installed along the existing linemarking alignment (continuous) or offset to the line (discontinuous) (refer Transport for NSW Technical Direction TTD 2020/04 Installation of Audio Tactile Linemarking). A key consideration with the installation of ATLM is the potential impact it could have to on-road cyclists and nearby residential areas (needs to 150 m to 200 m from residences). The design of the ATLM treatment on edge lines will need to consider road sections with on-road cycling presence to decide the best location of the ATLM to minimise the impact on cyclists. The installation of the ATLM treatment on edge lines also need to consider the available shoulder width.

4.2.1 Advantages

- Provides an audio and vibration warning to road users.
- Cost effective solution that can be installed without civil works.
- Can include perceptual countermeasures (refer to section **Error! Reference source not found.**).

4.2.2 Disadvantages

- Could impact on on-road cyclists.

4.2.3 Potential Constraints and Opportunities

- The design will need to consider the available shoulder width for on-road cyclists.
- ATLM edge line requires a minimum 300 mm clearances between the ATLM and edge of pavement for vehicle recovery.
- ATLM should not be installed 200 m from residential areas due to the noise generated by vehicles traversing the ATLM.
- ATLM should not be installed on the inside of curves of radii less than 450 m, including centrelines and 50 m from intersections.
- Curvature of the road (not to be installed on the inside of curves of radii less than 450 m. The likelihood of vehicles traversing the ATLM)
- Various options are available for installation (refer to NSW RMS Technical Direction TTD 2020/04).

4.3 Safety Barriers

Safety barriers can be considered for locations where there are roadside hazards in the clear zone. Note that the installation of a barrier for an individual hazard may not be beneficial as a safety barrier is a potential hazard itself.

The selection of the safety barrier type will need to consider the applicable MASH compliant system based on the location, length of protection and barrier deflection.

Motorcycle protection rub rails can be installed with safety barriers. Motorcycle protection rub rails are installed underneath w-beam/ thrie-beam on the same posts with the base of the motorcycle protection rub rail between 300 mm to 800 mm above the ground depending on the manufacturer. The gap between the ground and the base of the rub rail could impede the ability of animals (wombats, monitor lizards, etc.) to safely cross the road. This could result in a road user colliding with an animal or losing control when avoiding an animal trapped on the road.

The design of the safety barrier will need to consider the approach and departure 'point of need' and the deflection zone behind the safety barrier. In some instances, clearing behind the barrier would be required to allow for barrier deflection.

4.3.1 Advantages

- Protection from hazards in the clear zone, including verges.
- Provides long term protection.

4.3.2 Disadvantages

- Introduction of new hazards.
- Potential that a verge side barrier could redirect an errant vehicle back onto the roadway into another vehicle.

4.3.3 Potential Constraints and Opportunities

- May require the removal of trees or other hazards behind the barrier to account for the installation and safety barrier deflection.
- Different barrier types are available to treat different situations.
- Motorcycle protection rub rail can be installed with safety barriers to provide added protection to motorcyclists, however, can result in trapping debris and impact on animals crossing the road.

4.4 Provide additional clearing within the clear zone

The installation of safety barriers and the reduction of the speed limit is a "reduction" approach to improving the safety of the road. The removal of the hazard from the road environment is the "elimination" approach.

The clearing of hazards in the clear zone should include trees (including low branches overhanging the road where the tree is located outside the clear zone) and shrubs. Removal of shrubs is desirable for potential fire reduction and to improve the visibility of wildlife.

4.4.1 Advantages

- Reduces the extent/ number of safety barriers required.
- Improves road user awareness of roadside/ verge activity, enabling road users to observe and identify animals on the side of the road easier and increases the likelihood of the vehicle stopping before colliding with an animal. This option has the potential to reduce the number of collisions involving animals.
- Provide a bushfire containment line and maximise the ability for the public to escape from an approaching bushfire (The Royal Commission into National Natural Disaster Arrangements Report, October 2020, Recommendation 12.1 Roadside vegetation management).
- Improve visibility of cyclists on curved sections of the road.
- Reduce the likelihood of trees/ branches falling on the road (becoming hazards or blocking traffic).

4.4.2 Disadvantages

- Requires ongoing maintenance and management of the clear zone after the initial clearing has been undertaken.
- Perceived or actual environmental impacts associated with the removal of vegetation from the clear zone.

4.4.3 Potential Constraints and Opportunities

- It is acknowledged that some hazards may not be able to be removed due to their significance to the area. This will require consultation with key stakeholders to identify which hazards are to remain and how each section should be treated.
- The removal of trees and disturbance due to construction activities may require an Environmental Significant Option (ESO) which can take circa three months or an Environmental Impact Statement (EIS) which can take circa 1 year for approvals.

4.5 Bicycle Activated Warning Signs

The use of dynamic warning systems to warn other road users of a cyclists' presence on the road has been implemented on roads in Victoria on Deans Marsh-Lorne Road (2016) and in Queensland, predominately at roundabouts and narrow bridges. Similar treatments to the Victorian sign have been implemented in America and parts of Europe as an advanced warning system to warn approaching road users of the presence of cyclists on rural roads.

The system used in Victoria was installed at the start of the climb of a hill and circa at the halfway mark. The 'Cyclists Ahead' warning signs are triggered by passing cyclists and go into 'standby mode' for the time it takes for a cyclist to reach the next sign. The signs are then activated by motorists road users, warning them that there are cyclists on the climb. Deans Marsh-Lorne Road has similar characteristics to the climbing sections of the Brindabella/ Uriarra and Cotter Road loop. Recent reports on these signs indicate that there are some technical issues with the signs, however, the cause of these issues are unknown and may come down to maintenance.



https://www.epcgroup.com/wp-content/uploads/hea_0916_03_cyclists-signs.jpg

The Victorian and European signs operated with nonintrusive detector systems while the American system used detector loops. Further investigation of the preferred system would be required.

4.5.1 Advantages

- Advises road users of cyclists within a section of road.
- The detection system can be implemented with minimal disruption to the existing road surface (similar to the temporary speed monitoring detection systems).
- Low cost when compared to providing additional pavement width/ cycling shoulder.

4.5.2 Disadvantages

- Potential for road users to become complacent towards the sign.
- Potential for road users to become reliant on the signs with safety issues if the sign stops working.

4.5.3 Potential Constraints and Opportunities

- There is potential that a trial could be undertaken to evaluate the effectiveness of this treatment, particularly for locations where sight distances are limited by the geometry of the road.

4.6 Warning and Advisory Speed Signs

Curve warning and advisory speed signs provide a warning for road users that they are approaching a substandard horizontal curve or series of curves and provides a suitable speed for the road user to travel through the intersection.

The installation of winding road signs can be installed where there is a series of closely spaced curves. Curve warning and advisory speed signs are to be installed after the winding road sign. Supplementary next X km can be installed with the winding road signs if the length of the winding road is greater than 1 km, with repeater with appropriate changes to the supplementary distance plates.

4.6.1 Advantages

- Alerts road users that they are approaching a change in road alignment.
- Advisory speed sign provides road users with additional guidance.
- Low cost treatment to assist in reducing loss of control collisions on curves.

4.6.2 Disadvantages

- Incorrect advisory speed signs can result in road users disregarding the advisory speed and travel through the curve at an unsafe speed.

4.6.3 Potential Constraints and Opportunities

- The installation of advisory speed signs on existing roads requires an assessment using the ball bank indicator method, requiring multiple trips and measurements on the length of the road in both directions.
- Sections of the road with closely spaced curves could be difficult to sign correctly.

4.7 Widening pavement and provision of shoulder

The widening of the pavement and provision of a sealed shoulder can provide road users with additional space within the road to recover should they lose control. It also provides additional separation for on-road cyclists. This treatment requires long sections of the road to be widened to be effective.

4.7.1 Advantages

- Upgrades the width of the road, including shoulders, to align with current standard and guidelines and provides an area for vehicles to recover if they inadvertently leave the traffic lane.
- Removes edge drop on the edge of the traffic lane.
- Has the ability to reduce the number of collisions associated with motorcycles.
- Provides a sealed shoulder for cyclists, removing them from the trafficable lane.

4.7.2 Disadvantages

- High cost.
- Potential to increase the speed of vehicles.
- Impact on vegetation.

4.7.3 Potential Constraints and Opportunities

- The verge of the road in some locations will prohibit the widening of the road without significant design and construction costs (e.g. rock cuttings/ fill stabilisation).
- Potential to obtain funding based on the improvement of rural roads to accommodate large commercial vehicles (e.g. B-doubles).
- Potential block boundary and environmental constraints in the design, including the extension of culverts and headwalls.
- The removal of trees and disturbance due to construction activities may require an ESO or an EIS.

5. RECOMMENDATION FOR SAFETY IMPROVEMENT TREATMENTS

The selection of the safety improvement options for each road is provided in Table 5-1. The yellow highlighted cells are the recommendations from the ARRB report.

Table 5-1 Recommendation for Safety Improvement Treatments

Site	Road	Safety Improvement Treatments						
		Reduced Speed Limit	ATLM	Roadside Safety Barrier	Clearing clear zone	Bicycle activated warning signs	Warning and Advisory Speed Signs	Pavement Widening
14	Paddys River Road	Y	Y	Y	Y	Y	Assess all roads	Consideration for future Capital Works.
15	Tidbinbilla Road	Y	Y	Y	Y	Y		
16	Naas Road	Y	Y	Y	Y	No		

A brief description of each option is provided below.

5.1 Speed Limit Reduction

A review of the speed limit on the selected sites was undertaken based on Austroads Guide to Traffic Management Part 5: Link Management (2020). Table 7.5 of this guide has the applicable considerations for the selection of speed for rural roads with undeveloped roadside environments. There are no considerations applicable for a 100 km/h speed limit. The following tables provide an assessment for each road based on the allocated ARRB sections for 80 km/h, and 60 km/h where warranted. The text in red indicates factors to support a speed limit reduction.

Table 5-2 Rural Site 14 – Paddys River Road Speed Limit Considerations

Consideration	Comment					
	532	533	534	535	536	537
80 km/h Speed limit considerations						
Severe crash rate/100 million VKT <i>Severe crash rate is high, provided minimum AADT is exceeded.</i>	The severity collision rate is 0.22 for fatal collisions in the ACT. Paddys River Road has a rate of 0.217. This is marginally below the average ACT rate.					
Road use and users <i>High AADT, e.g. over approximately 12,000 vpd</i>	Traffic volume from 2020. Total 2,524 vpd. Therefore, not considered high.					
Road features <i>At least two of: Lane width ≤ 3.0 m ≤ 0.5 m sealed shoulders and effective unsealed shoulders < 1 m ≤ 2 m clear zone, or 2–4 m clear zone with high density/continuous roadside hazards Generally curving and/or undulating road alignment (e.g. 2–4 higher-risk curves per km) 1–2 standard access points per 100 m (includes intersections) A rural hamlet/settlement</i>	Lane widths are generally greater than 3 m (sections of the road have been widened). Limited sealed shoulder (<0.5 m) (sections of the road have been widened). Limited unsealed shoulder (<1.0 m) (sections of the road have been widened). Nonfragile hazards (trees, rocks) within the clear zone. Existing safety barriers, although additional safety barriers are required, including the extensions of some safety barriers.					No high risk curves
	2 - 4 curves within 1 km.					
	1-2 access per 100 m					
	Camp area at the river	No settlements				
Speeds <i>Mean speed is well below the existing speed limit due to geometric design of the road</i>	Provided mean speed below posted speed limit.					
60 km/h Speed limit considerations (in addition to 80 km/h)						
Road features <i>and/or hilly road alignment (e.g. > 4 higher-risk curves per km)</i>	Mountainous section of road					Undulating road
<i>> 2 standard access points per 100 m (includes intersections)</i>	No more than 2 access point per 100 m					
Speeds <i>Mean speed is well below the existing speed limit due to geometric design of the road</i>	Curves and gradient inhibit the speed					No inhibiting factors

A speed limit reduction from 100 km/h to 80 km/h is supported for Paddys River Road for the section that passes through the forestry area. There is also support for the existing 60km/h section.

Note that there are hazards in the clear zone based on an 80 km/h speed limit.

Table 5-3 Rural Site 15 – Tidbinbilla Road Speed Limit Considerations

Consideration	Comment					
	607	608	609	610	611	612
80 km/h Speed limit considerations						
Severe crash rate/100 million VKT <i>Severe crash rate is high, provided minimum AADT is exceeded.</i>	The severity collision rate is 0.22 for fatal collisions in the ACT. Tidbinbilla Road has a rate of 0.463. This is more than double the average ACT rate.					
Road use and users <i>High AADT, e.g. over approximately 12,000 vpd</i>	Traffic volume from 2020. Total 1,183 vpd. Therefore, not considered high.					
Road features <i>At least two of: Lane width \leq 3.0 m \leq 0.5 m sealed shoulders and effective unsealed shoulders $<$ 1 m \leq 2 m clear zone, or 2–4 m clear zone with high density/continuous roadside hazards Generally curving and/or undulating road alignment (e.g. 2–4 higher-risk curves per km) 1–2 standard access points per 100 m (includes intersections) A rural hamlet/settlement</i>	Lane widths are 3.0 m or greater. Limited sealed shoulder ($<$ 0.5 m). Unsealed shoulders vary, on average achieves 1 m to 1.5 m Nonfragile hazards (trees, rocks) within the clear zone. Existing safety barriers, although additional safety barriers are required, including the extensions of some safety barriers.					
	No high risk curves			2 - 4 curves within 1 km.	No high risk curves	
	1-2 access per 100 m					
	No settlements (excludes the entry to Tharwa)					
Speeds <i>Mean speed is well below the existing speed limit due to geometric design of the road</i>	Provided mean speed close to the posted speed limit. However, Very high 85 th percentile speed					

A speed limit reduction from 100 km/h to 80 km/h is supported for Tidbinbilla Road in the vicinity of the intersection with Point Hut Road.

Note that enforcement is required on this road due to the high 85th percentile speed.

Table 5-4 Rural Site 16 – Naas Road Speed Limit Considerations

Consideration	Comments		
	499	500	501
80 km/h Speed limit considerations			
Severe crash rate/100 million VKT <i>Severe crash rate is high, provided minimum AADT is exceeded.</i>	The severity collision rate is 0.22 for fatal collisions in the ACT. No fatal collisions occurred on Naas Road within the collected collision data set		
Road use and users <i>High AADT, e.g. over approximately 12,000 vpd</i>	No traffic volumes provided. Given the location, it is anticipated that daily traffic volumes would be less than 500 vpd. Therefore not considered high.		
Road features <i>At least two of: Lane width ≤ 3.0 m ≤ 0.5 m sealed shoulders and effective unsealed shoulders < 1 m ≤ 2 m clear zone, or 2–4 m clear zone with high density/continuous roadside hazards</i>	Lane widths are generally greater than 3 m. The road has a localised narrowing at a low level bridge. Limited sealed shoulder (<0.5 m) Limited unsealed shoulder (<1.0 m) Nonfragile hazards (trees, rocks, culverts) within the clear zone. Existing safety barriers, although additional safety barriers are required, including the extensions of some safety barriers.		
<i>Generally curving and/or undulating road alignment (e.g. 2–4 higher-risk curves per km)</i>	No high risk curves	2 – 4 high risk curves within 1 km (note isolated curves with adequate road sections in between)	
<i>1–2 standard access points per 100 m (includes intersections)</i>	1-2 access per 100 m. Note that some access points are located on curves		
<i>A rural hamlet/settlement</i>	Settlement of Tharwa	No settlements	
Speeds <i>Mean speed is well below the existing speed limit due to geometric design of the road</i>	No speed data provided. Expected that mean speed would be below the posted speed limit due to the road geometry		

A speed limit reduction from 100 km/h to 80 km/h is supported for Naas Road.

Note that there are hazards in the clear zone based on an 80 km/h speed limit.

Although speed data was not provided, it is expected that the majority of the road users would comply with the reduced speed limit due to the geometry of the road.

5.2 Audio Tactile Line Marking

The implementation of ATLM for the edge and centre lines are supported for all the rural roads away from residential areas (150 m to 200 m). This treatment could be implemented as part of resealing projects or existing pavement markings.

Although the ARRB report recommended ATLM for the road with speed limits 80 km/h or greater, sections of the rural road where the speed limit is below 80 km/h should be considered for ATLM to provide consistency for the full length of the rural road.

Consultation with other stakeholders, including cyclists, should be undertaken to discuss whether there are any concerns with this treatment.

5.3 Safety Barriers

There are several locations identified where safety barriers, including the extension of existing safety barriers, should be considered. Note there are some locations where vegetation would need to be removed for the construction and to account for the deflection zone behind the safety barrier (regardless of the type of safety barrier). The removal of trees from the deflection zone of the safety barriers and disturbance due to construction activities will need to be assessed to determine whether their removal would require an ESO or an EIS.

It was identified during the site inspections that the maintenance replacement of safety barriers appeared to replace damaged safety barriers based on the former location rather than assessing the extent of the safety barrier based on the point of need. In some instances, the extension of the safety barrier by 10 m to 15 m would have covered the point of need [REDACTED]

It was also identified in some locations that gaps between barriers were provided, with new end terminals provided at some locations. Due to the cost of an end terminal ([REDACTED]), the length of the safety barrier to connect the two barrier systems would have resulted in a cost saving and provide a safer outcome.

It is recommended that for future safety barrier repairs, where the end terminal requires replacement, an assessment of the point of need is undertaken.

5.4 Provide additional clearing within the clear zone

The clearing of vegetation and other hazards from the clear zone would provide a safe alternative to installing safety barriers. Due to the benefits associated with this option, it should be highly considered where possible to remove or reduce all roadside hazards.

This option will require an assessment of which trees are significant and cannot be removed. These locations will need to be assessed to determine whether the remaining hazards require safety barrier protection.

The removal of trees from the clear zone and disturbance due to construction activities will need to be assessed to determine whether the tree removal would require an ESO or an EIS. The assessment of the ESO or EIS will need to consider the safety advantages of this option (refer Section 4.4).

The clearing of hazards is the preferred option due to the elimination of the hazard. The clearing of vegetation in the verge requires an ongoing programme, similar to the mowing programme.

5.5 Bicycle activated warning signs

The installation of bicycle activated warning signs is considered a suitable treatment for locations where there is a high cycling presence. The installation of these systems would provide benefit at locations where the approach sight distance is limited.

It is recommended that this treatment be installed as a trial to evaluate the effectiveness on roads in the ACT. The installation on Paddys River Road and Tidbinbilla Road should be considered as part of the recommended trial on the Brindabella – Uriarra – Cotter loop.

The selection of a suitable warning system would require further investigation.

5.6 Warning and Advisory Speed Signs

It is recommended that an assessment to install additional curve warning and advisory speed signs is undertaken. The Australian Standard method to determine the advisory speed on substandard curves is to use the ball bank indicator method (AS 1742.2-2009 Manual of uniform traffic control devices, Part 2: Traffic control devices for general use, Appendix F). Alternatively, Austroads Guide to Traffic Management Part 3 Transport Study and Analysis Methods Geometric permit the calculation of the advisory speed based on the speed limit and design parameters (superelevation, friction coefficient and radius).

It is recommended to review the appropriateness of the existing signage and replace missing damaged or incorrect curve warning and advisory speed signs.

5.7 Pavement widening

Pavement widening, including the provision of a sealed and unsealed shoulder, should be provided with all road upgrades. An assessment of whether ATLM can be installed as part of pavement widening should be undertaken as part of the design. Pavement widening of these roads should align with the requirements of Austroads Guide to Road Design Part 3 Geometric Design, Table 4.5, provided below.

Table 4.5: Single carriageway rural road widths (m)

Element	Design AADT				
	1–150	150–500	500–1000	1000–3000	> 3000
Traffic lanes ⁽¹⁾	3.7 (1 x 3.7)	6.2 (2 x 3.1)	6.2–7.0 (2 x 3.1/3.5)	7.0 (2 x 3.5)	7.0 (2 x 3.5)
Total shoulder	2.5	1.5	1.5	2.0	2.5
Minimum shoulder seal ^{(2),(3),(4),(5),(6)}	0	0.5	0.5	1.0	1.5
Total carriageway	8.7	9.2	9.2–10.0	11.0	12.0

The full width of the shoulders should be sealed on roads with high cyclist volume (e.g. Tidbinbilla Road/ Paddys River Road that forms part of the Cotter Road/ Brindabella Road/ Uriarra Road cycle loop).

Although the lane widths for the majority of the roads are close to compliant on the straight sections, the following have limited compliance:

- Pavement width on curves does not account for commercial vehicles.
- Width of the sealed and unsealed shoulders due to the roadside environment (drainage, embankment, etc.).

- Verge/ batter provisions

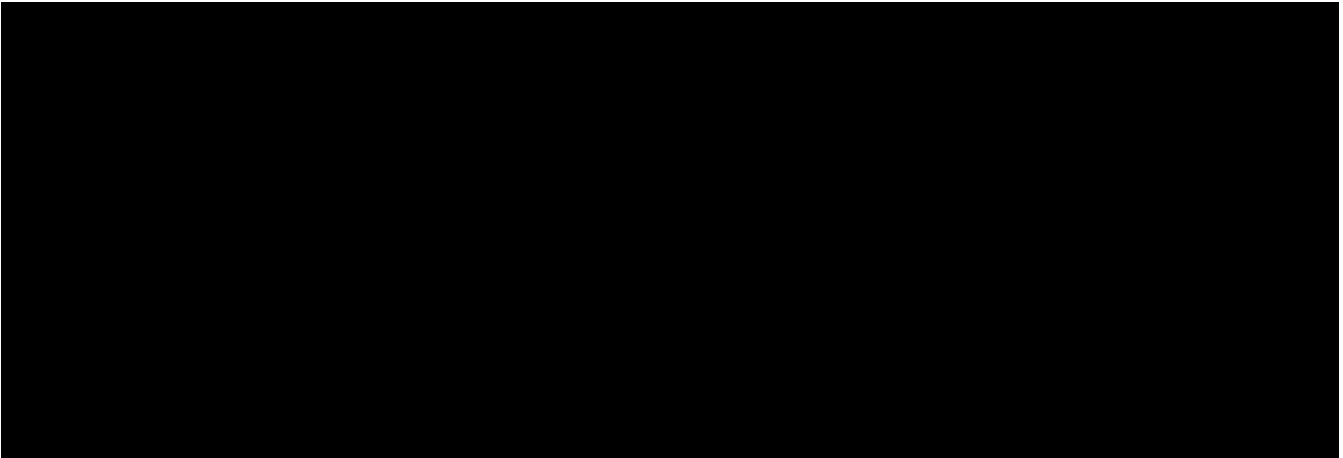
Due to the rural environment, pavement widening would likely require an ESO or an EIS. The assessment of the ESO or EIS will need to consider the road safety advantages associated with widening to comply with current guidelines.

It should be acknowledged that the cost to upgrade this section of road can greatly differ depending on how the road is widened (e.g. widen on both sides or one side) and with other factors (e.g. geotechnical, environmental, etc.) influencing the extent of work and associated costs. An indicative estimation of the cost of widening on one side of the road is [REDACTED]

Note that sections of Paddys River Road have been widened, with construction on widening on several other curves due to commence shortly.

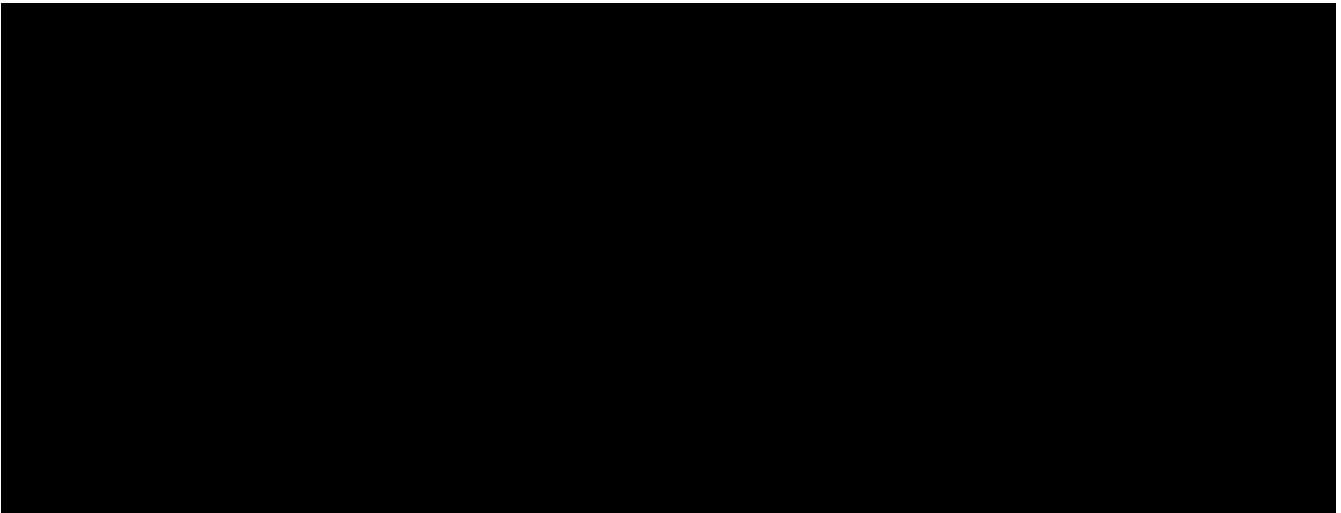
6. ESTIMATED INDICATIVE PRELIMINARY CONSTRUCTION COST

Table 6-1 Rural Site 14 – Paddys River Road Indicative Construction Costs



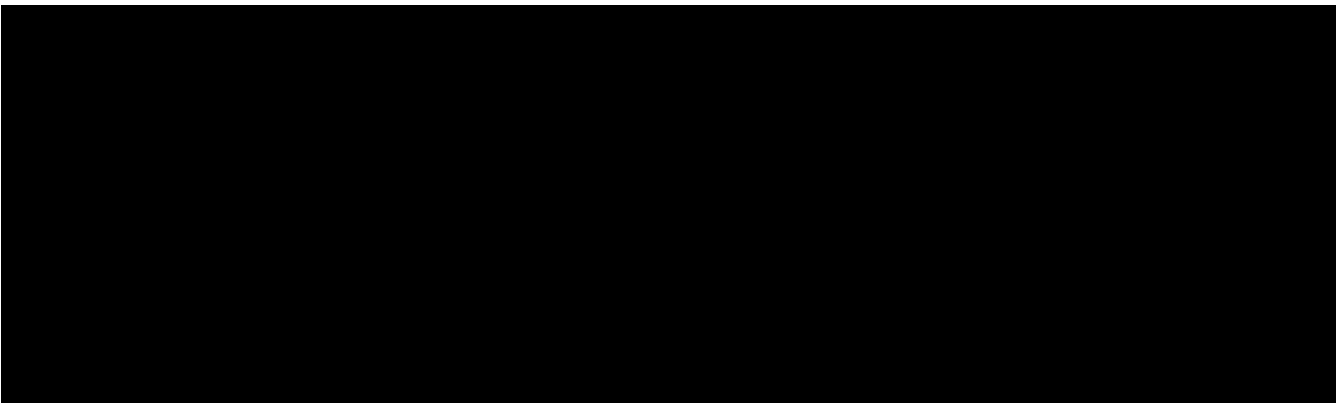
No NCA Works Approval/ Development Application Submission required. Potential for ESO/ EIS required for safety barriers.

Table 6-2 Rural Site 15 – Tidbinbilla Road Indicative Construction Costs



No NCA Works Approval/ Development Application Submission required. Potential for ESO/ EIS required for safety barriers.

Table 6-3 Rural Site 16 – Naas Road Indicative Construction Costs



No NCA Works Approval/ Development Application Submission required. Potential for ESO/ EIS required for safety barriers.

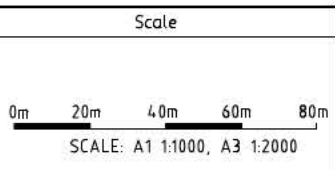
APPENDIX 1 CONCEPT SKETCHES



EXISTING SPEED LIMIT
CHANGE LOCATION
40km/h - 60km/h

- LEGEND**
- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
 - CHANGE SPEED LIMIT
 - INSTALL SAFETY BARRIER
 - CLEAR VEGETATION OR INSTALL SAFETY BARRIER
 - CLEAR VEGETATION AND INSTALL SAFETY BARRIER
 - CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
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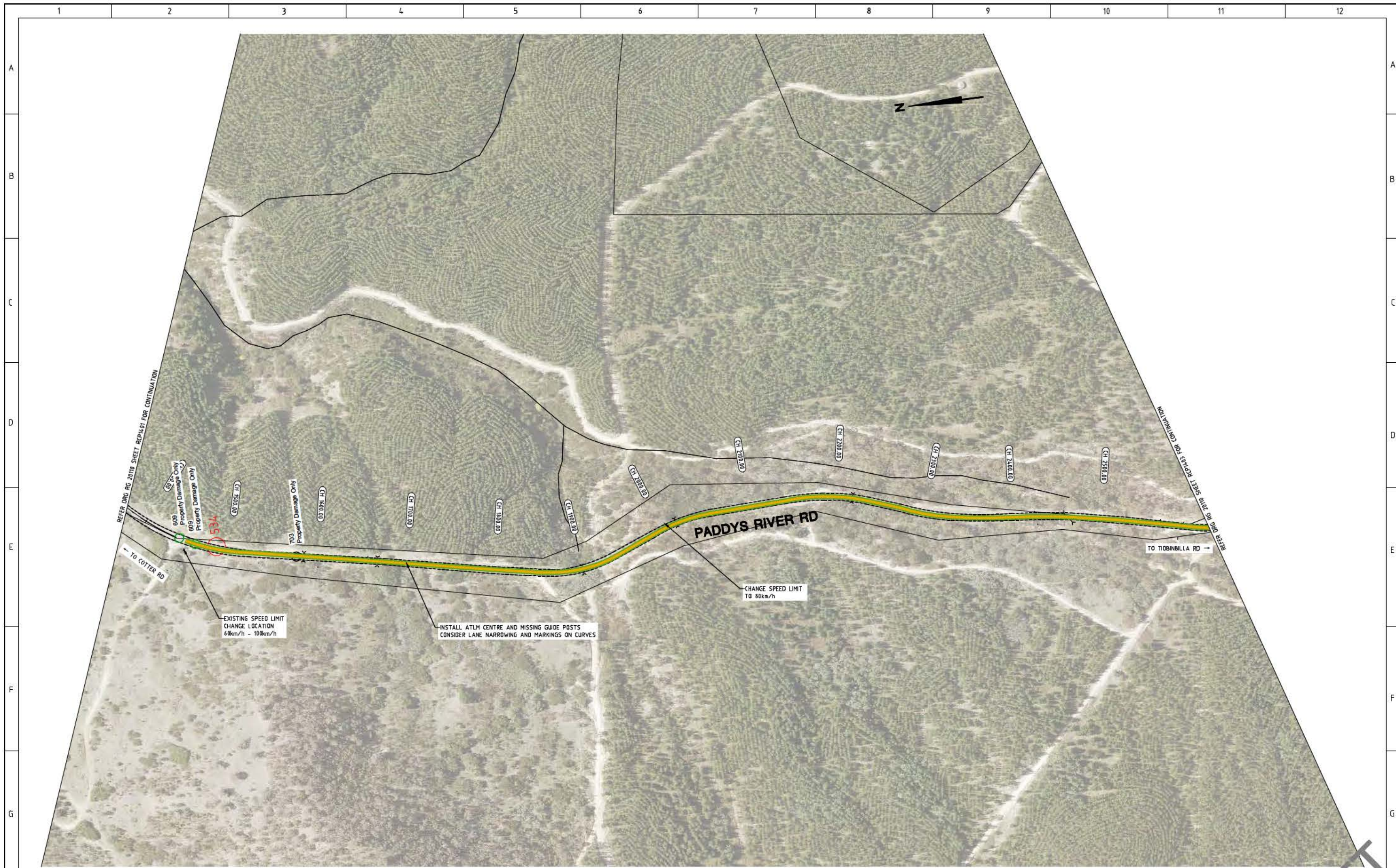
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Project Officer: Kencho Choden
Project Number: 30490

ACT Government

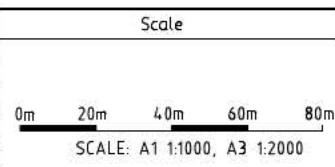
Project	Drawing Title
DELIVERING ANRAM	PADDYS RIVER ROAD CONCEPT SKETCH SHEET 1 OF 11
Date: 28/05/21	Drg. No. RG 20110
Sheet RCP14-01	Revision 0



LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
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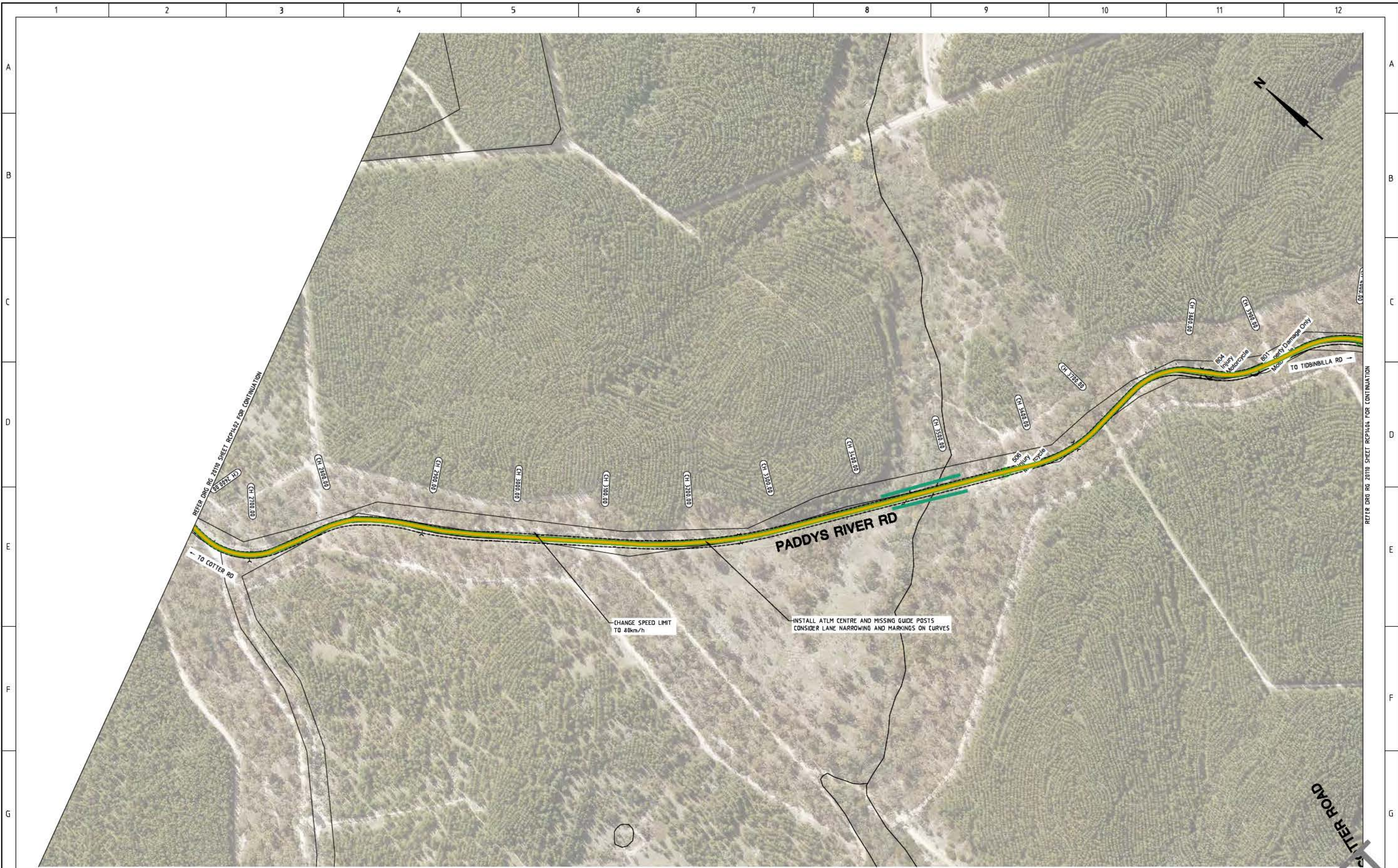
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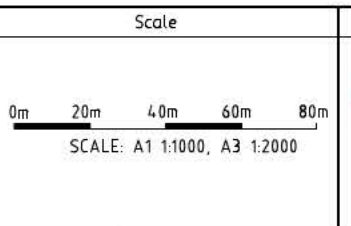
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Drg. No. RG 20110	Sheet RCP14.02	Revision 0		



LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

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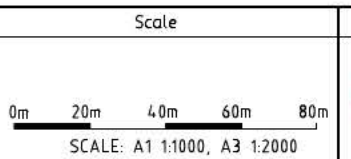
REFER DRG RG 2010 SHEET RCP1403 FOR CONTINUATION

REFER DRG RG 2010 SHEET RCP1405 FOR CONTINUATION

LEGEND

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- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

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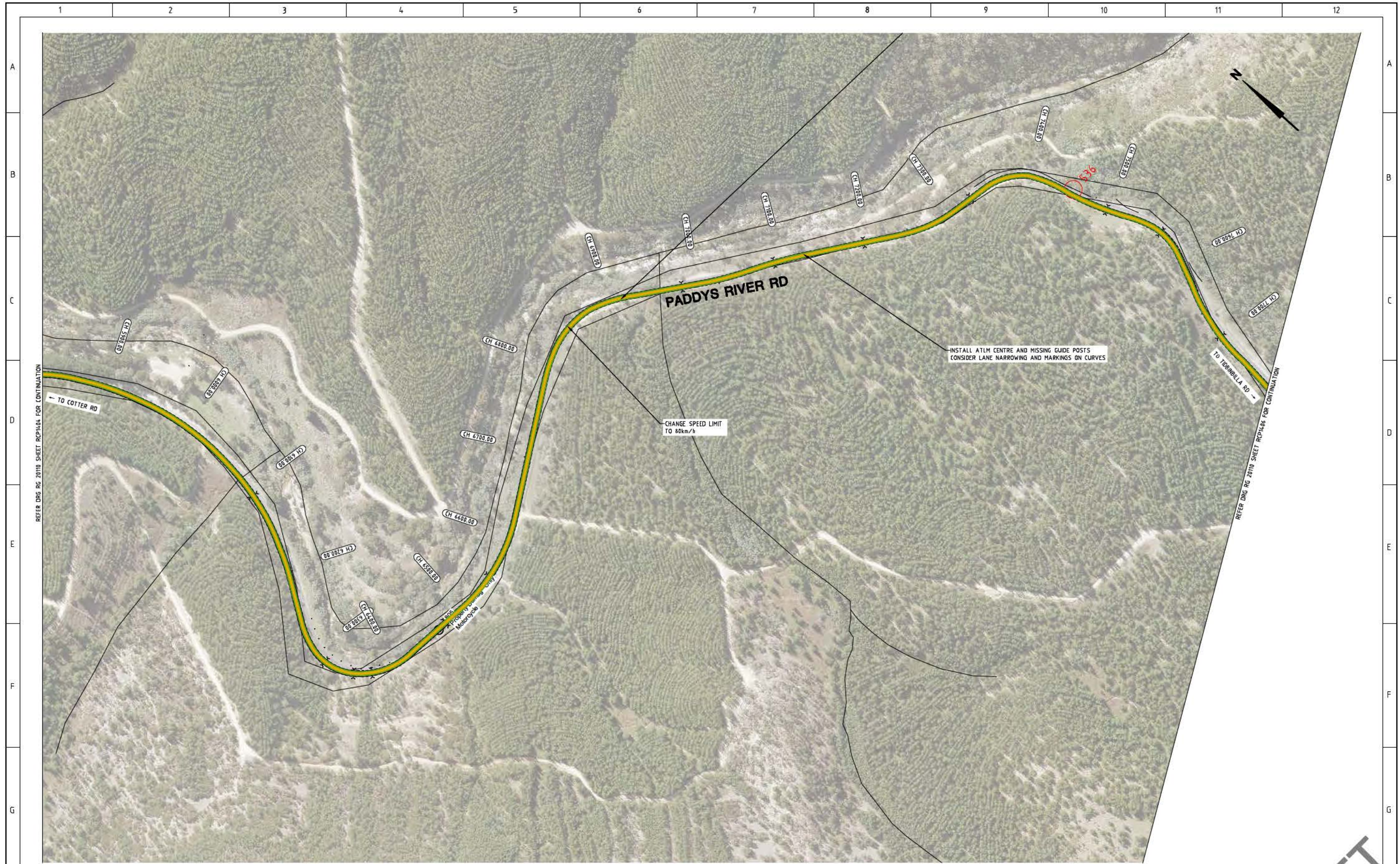
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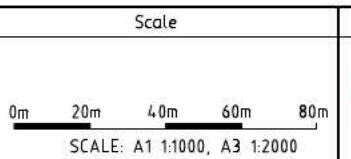
REFER DRG RG 2010 SHEET RCP1406 FOR CONTINUATION

LEGEND

	INSTALL AUDIO TACTILE LINE MARKING (ATLM)
	CHANGE SPEED LIMIT
	INSTALL SAFETY BARRIER
	CLEAR VEGETATION OR INSTALL SAFETY BARRIER
	CLEAR VEGETATION AND INSTALL SAFETY BARRIER
	CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

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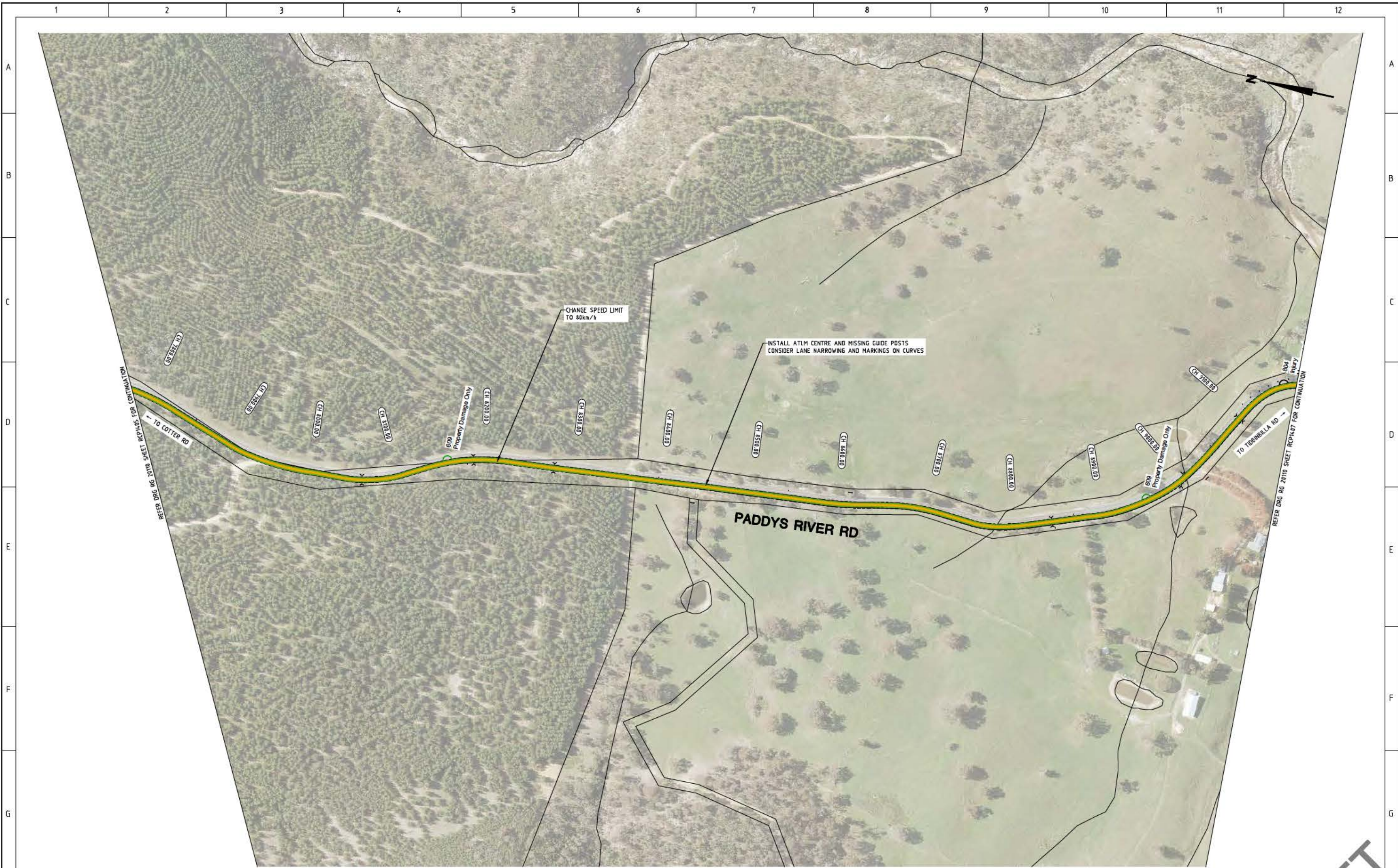
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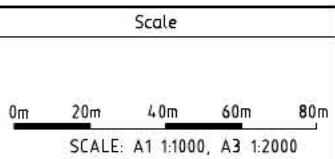
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Date: 28/05/21	Drg. No. RG 20110 Sheet RCP1405 Revision 0



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- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



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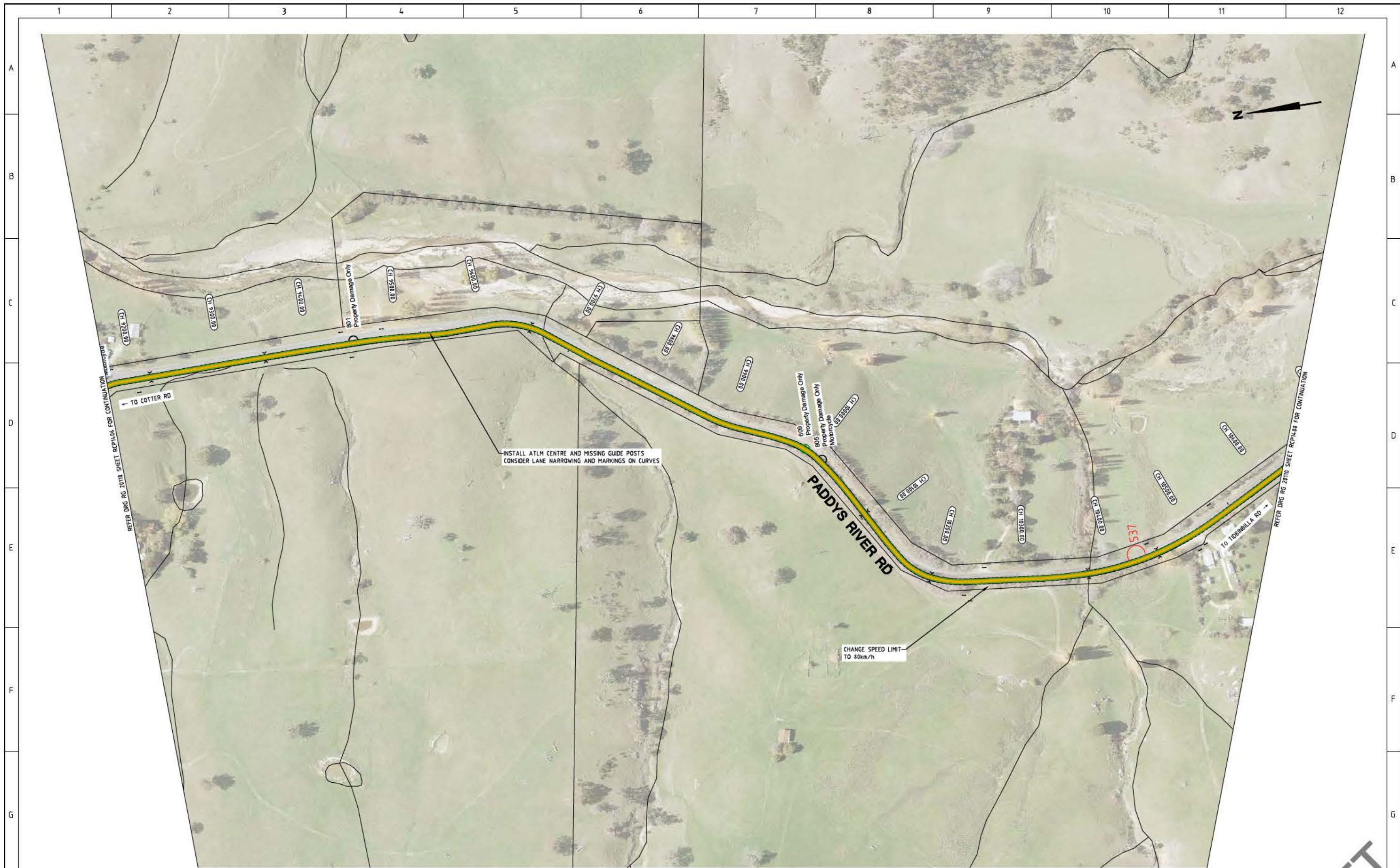
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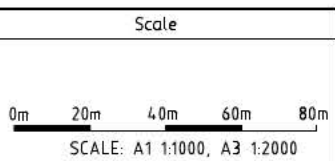


LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

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 Drawn by:
 Checked by:
 Approved by:

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

DELIVERING ANRAM

Date: 28/05/21

Drawing Title

**PADDYS RIVER ROAD
CONCEPT SKETCH
SHEET 7 OF 11**

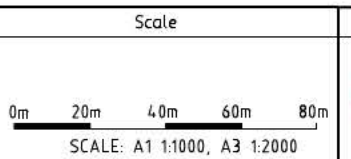
Drg. No. RG 20110	Sheet RCP14.07	Revision 0
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LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 28/05/21	Final Sketch Plan: --/--/--	Final Design: --/--/--
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



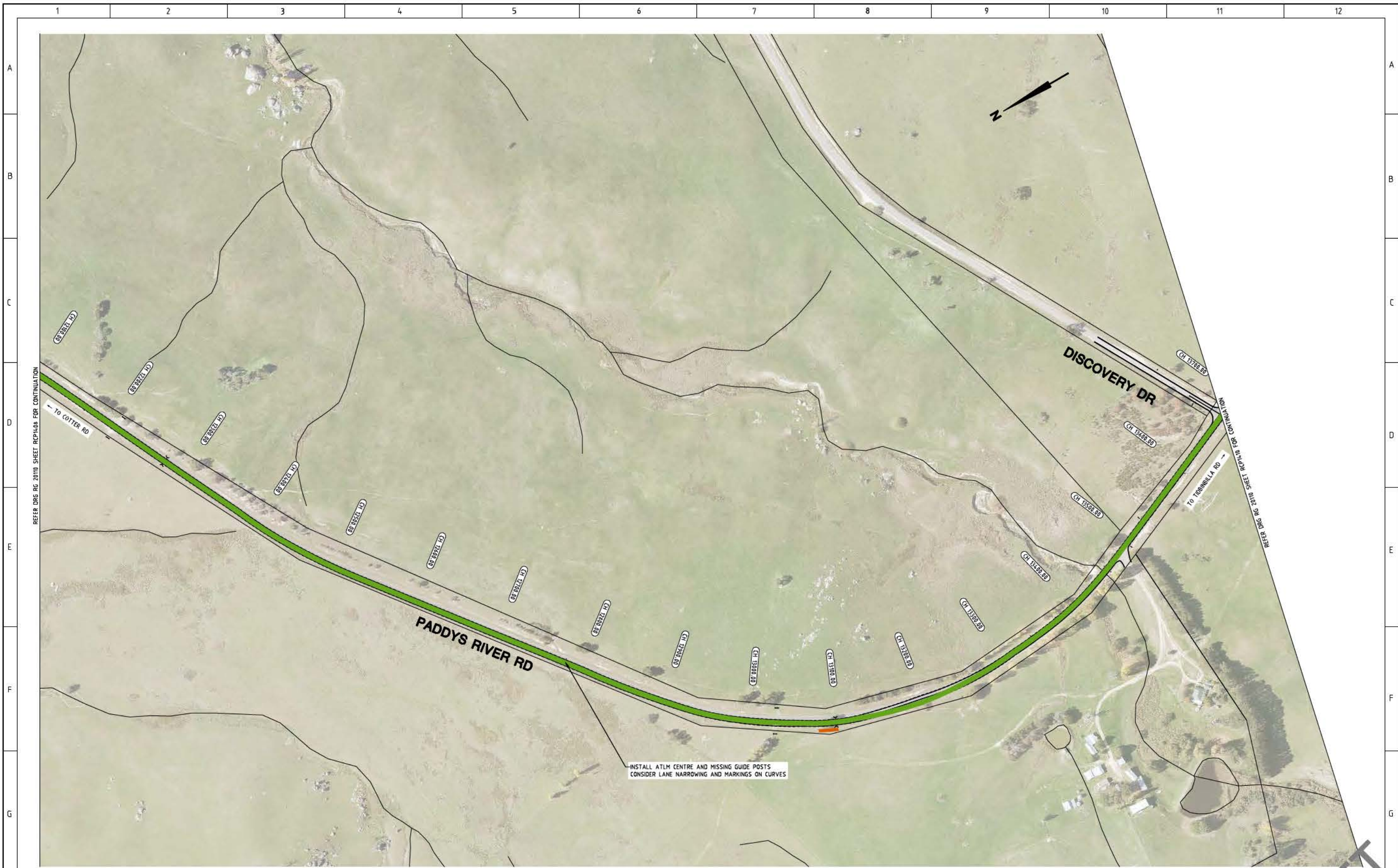
Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Pevon Street
Campbell ACT 2602
Ph: 02 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

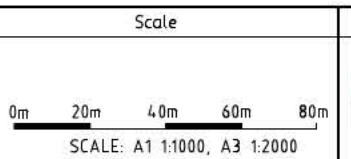
Project	Drawing Title
DELIVERING ANRAM	PADDYS RIVER ROAD CONCEPT SKETCH SHEET 8 OF 11
Date: 28/05/21	Drg. No.: RG 20110 Sheet: RCP14.08 Revision: 0



LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 28/05/21	Final Sketch Plan: --/--/--	Final Design: --/--/--
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

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Designed by:

Drawn by:

Checked by:

Approved by:

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

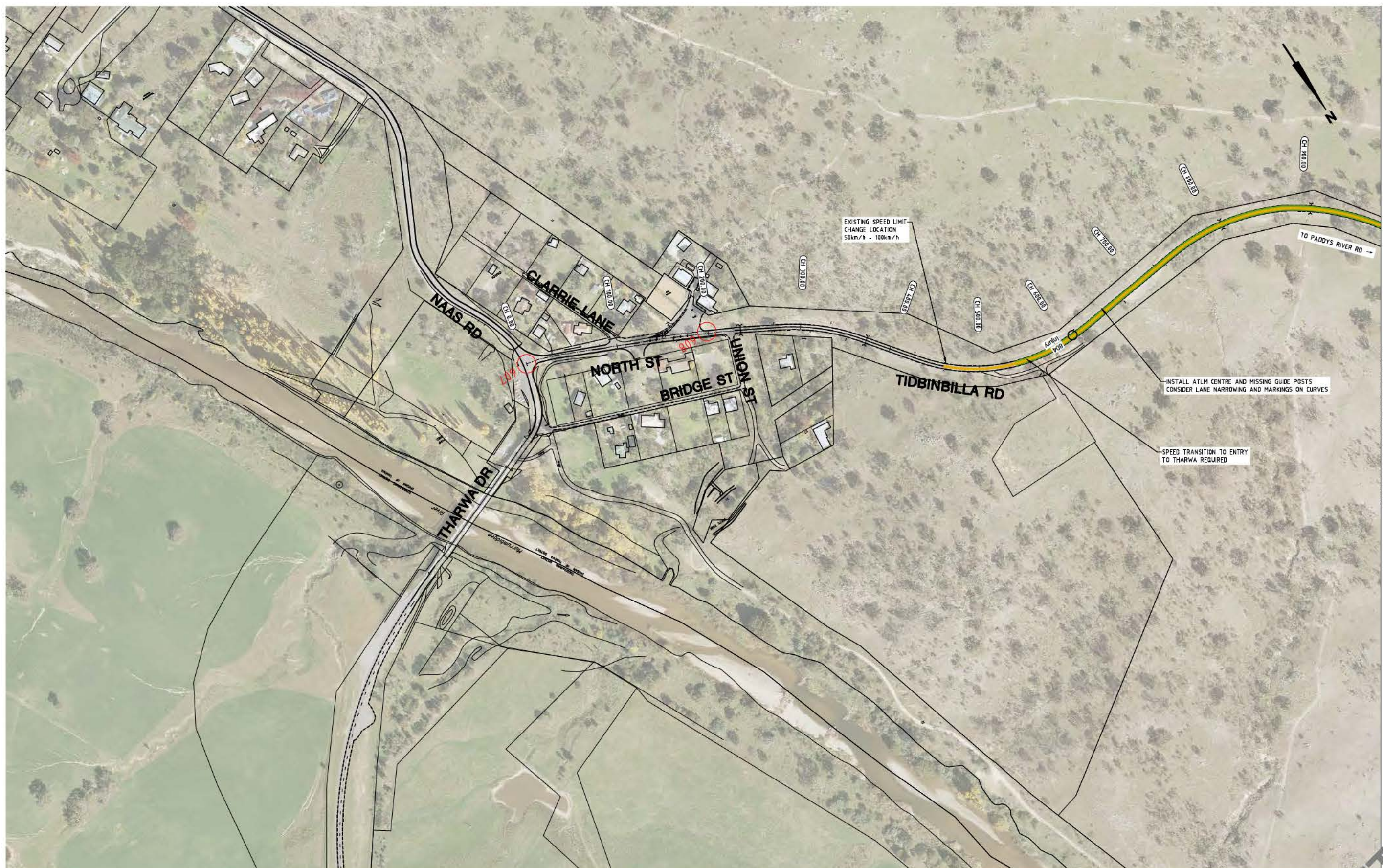
DELIVERING ANRAM

Date: 28/05/21

Drawing Title

**PADDYS RIVER ROAD
CONCEPT SKETCH
SHEET 9 OF 11**

Drg. No. RG 20110	Sheet RCP1409	Revision 0
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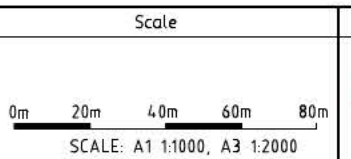
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- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 28/05/21	Final Sketch Plan: --/--/--	Final Design: --/--/--
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



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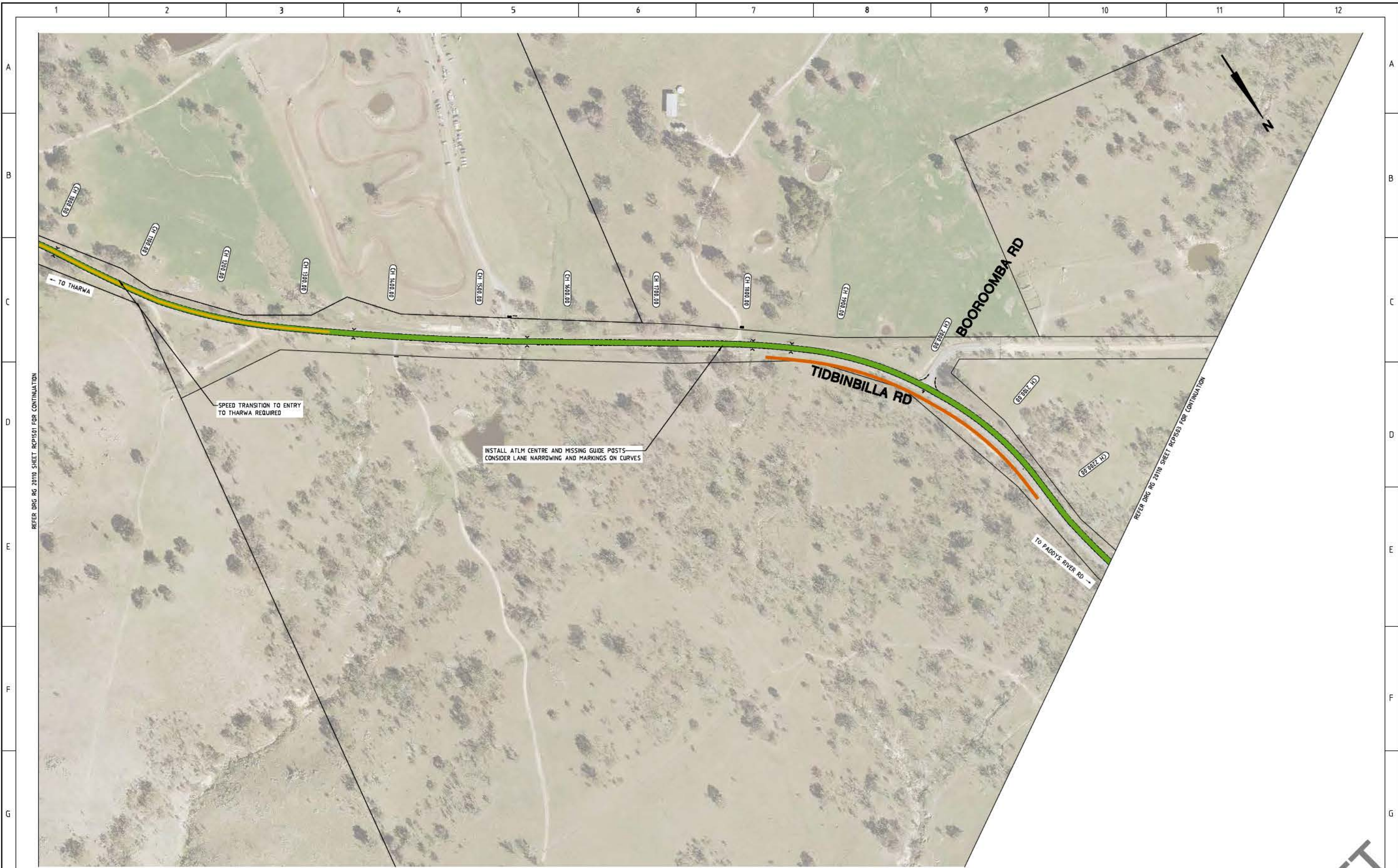
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Project Officer: Kencho Choden
Project Number: 30490

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Project	Drawing Title
DELIVERING ANRAM	TIDBINBILLA ROAD CONCEPT SKETCH SHEET 1 OF 12
Date: 28/05/21	Drg. No. RG 20110

Sheet	Revision
RCP1501	0




REFER DRG RG 2010 SHEET RCP1501 FOR CONTINUATION

SPEED TRANSITION TO ENTRY TO THARWA REQUIRED

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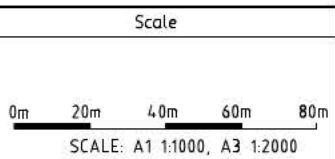
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-  CHANGE SPEED LIMIT
-  INSTALL SAFETY BARRIER
-  CLEAR VEGETATION OR INSTALL SAFETY BARRIER
-  CLEAR VEGETATION AND INSTALL SAFETY BARRIER
-  CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 28/05/21	Final Sketch Plan: --/--/--	Final Design: --/--/--
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



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Project Officer: Kencho Choden
Project Number: 30490



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Project	Drawing Title
DELIVERING ANRAM	TIDBINBILLA ROAD CONCEPT SKETCH SHEET 2 OF 12
Date: 28/05/21	Drg. No. RG 20110 Sheet RCP1502 Revision 0

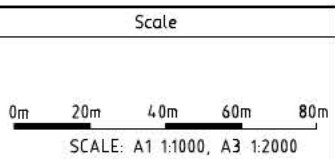


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- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 28/05/21	Final Sketch Plan: --/--/--	Final Design: --/--/--
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



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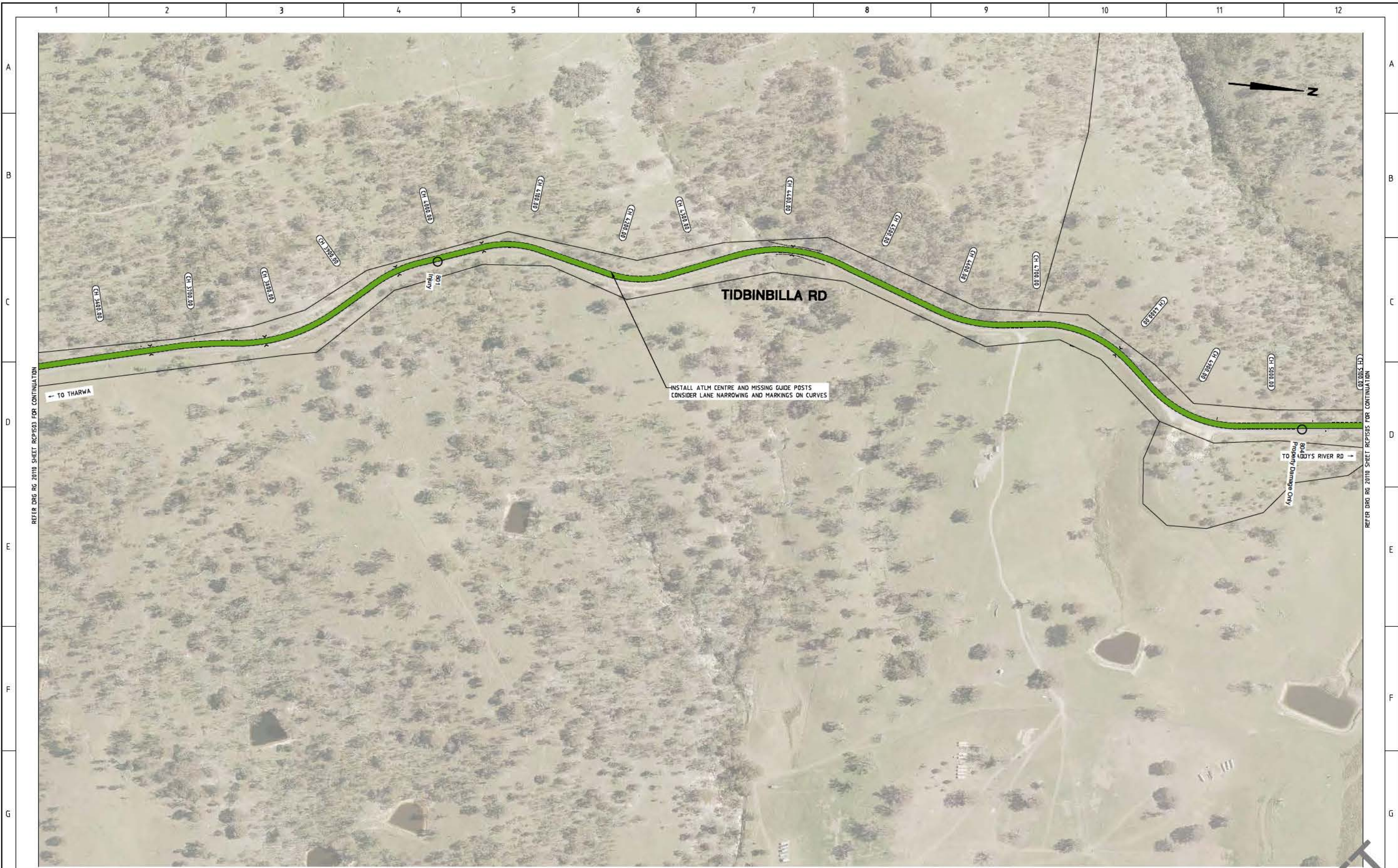
Client

Project Officer: Kencho Choden
Project Number: 30490

Project	Drawing Title
DELIVERING ANRAM	TIDBINBILLA ROAD CONCEPT SKETCH SHEET 3 OF 12
Date 28/05/21	Drg. No. RG 20110

Sheet	Revision
RCP1503	0

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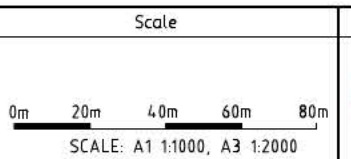
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REFER DRG RG 2010 SHEET RCP1505 FOR CONTINUATION

LEGEND

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- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



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Project Officer: Kencho Choden
Project Number: 30490

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Project	Drawing Title
DELIVERING ANRAM	TIDBINBILLA ROAD CONCEPT SKETCH SHEET 4 OF 12
Date 28/05/21	Drg. No. RG 20110
Sheet RCP1504	Revision 0

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

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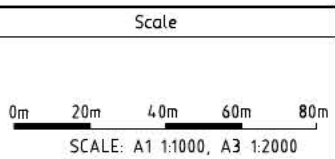
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REFER DRG RG 20110 SHEET RCP1505 FOR CONTINUATION

- LEGEND**
- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
 - CHANGE SPEED LIMIT
 - INSTALL SAFETY BARRIER
 - CLEAR VEGETATION OR INSTALL SAFETY BARRIER
 - CLEAR VEGETATION AND INSTALL SAFETY BARRIER
 - CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

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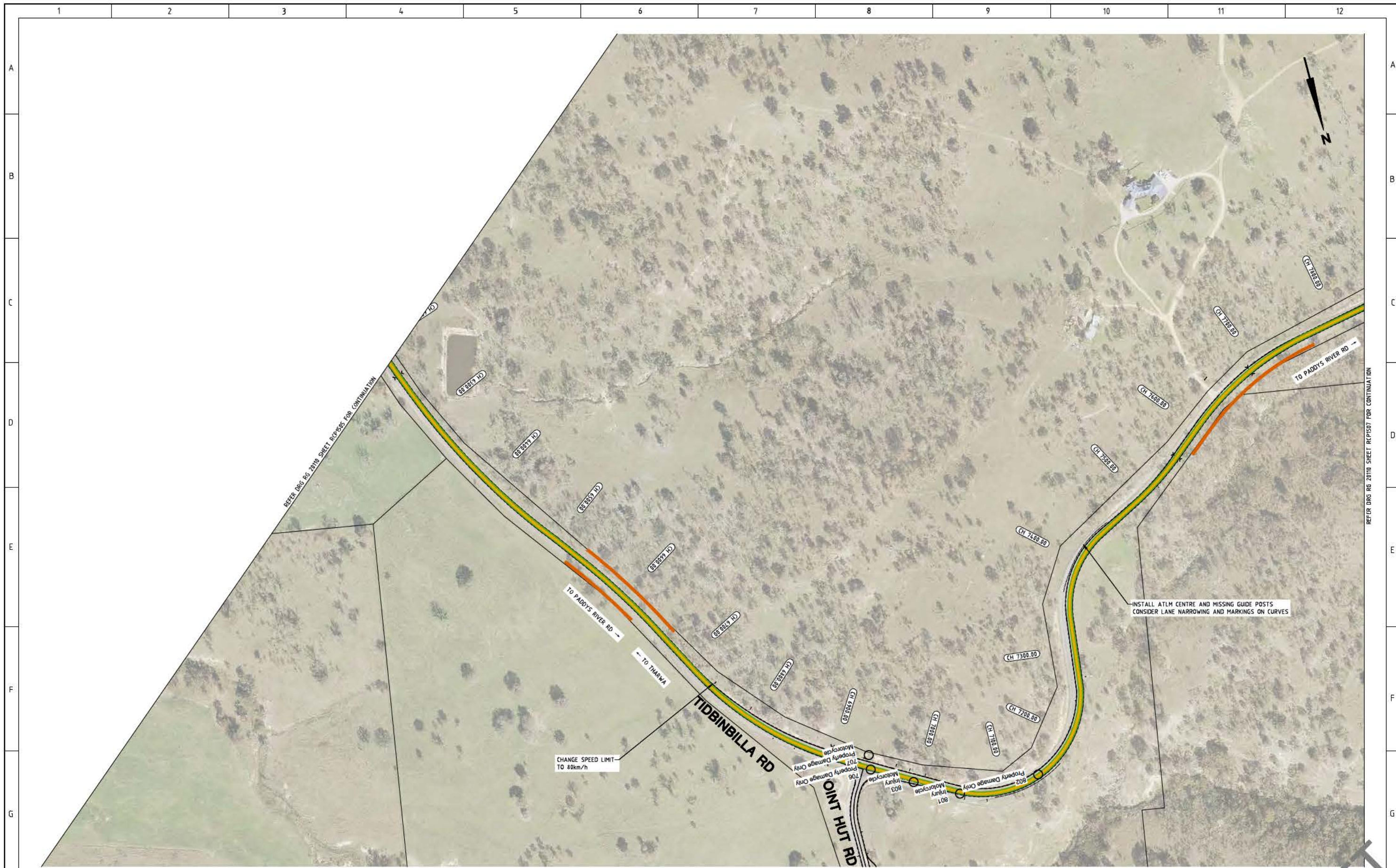
R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
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Client

Project Officer: Kencho Choden
Project Number: 30490

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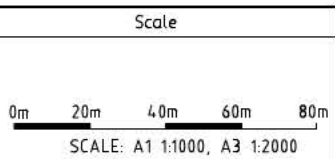
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LEGEND

	INSTALL AUDIO TACTILE LINE MARKING (ATLM)
	CHANGE SPEED LIMIT
	INSTALL SAFETY BARRIER
	CLEAR VEGETATION OR INSTALL SAFETY BARRIER
	CLEAR VEGETATION AND INSTALL SAFETY BARRIER
	CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 28/05/21	Final Sketch Plan: --/--/--	Final Design: --/--/--
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



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Client

Project Officer: Kencho Choden
Project Number: 30490

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Project

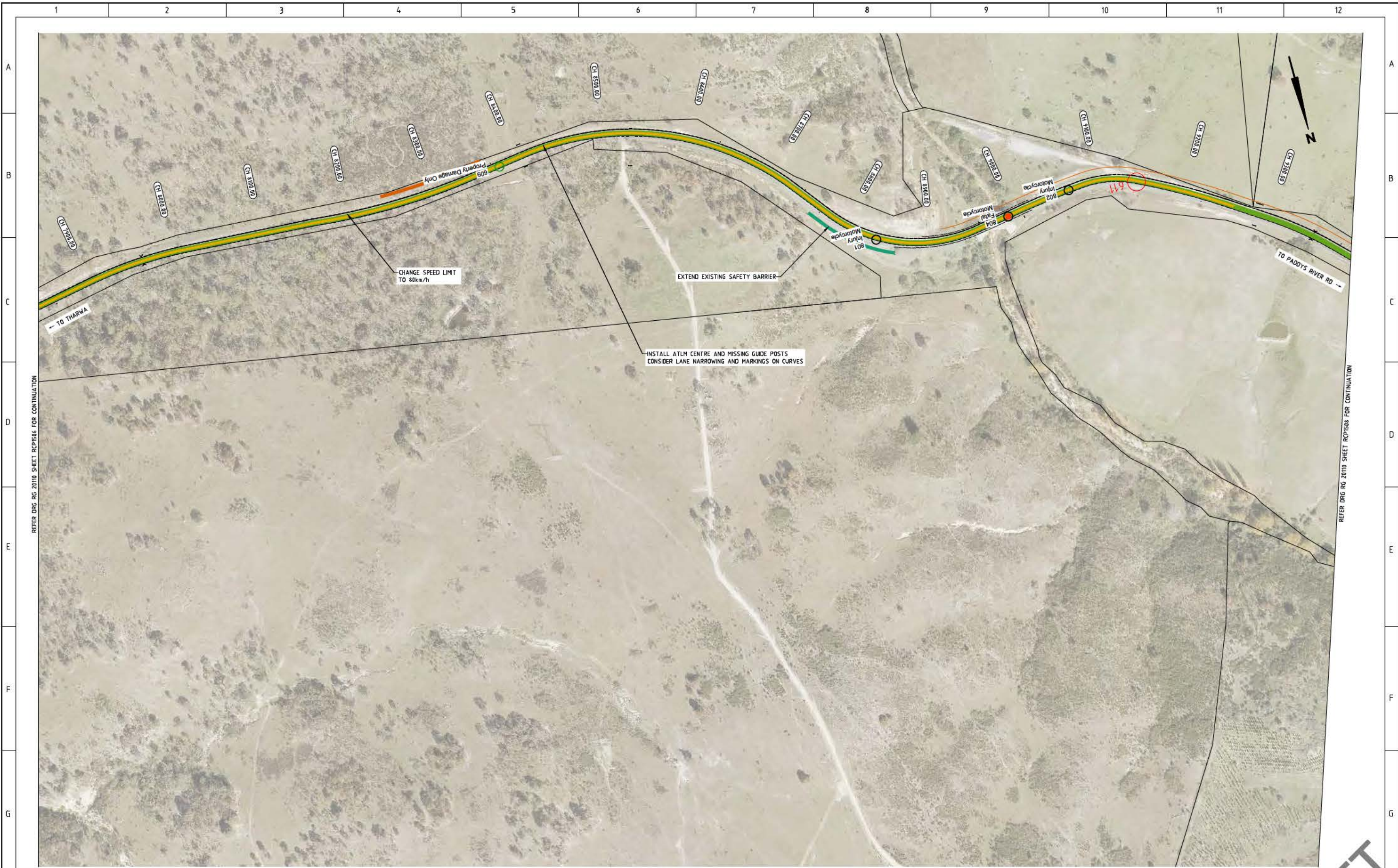
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Drawing Title

TIDBINBILLA ROAD
CONCEPT SKETCH
SHEET 6 OF 12

Drg. No.	Sheet	Revision
RG 20110	RCP1506	0



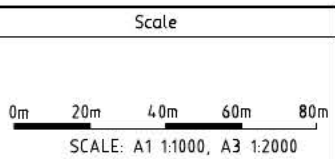
REFER DRG RG 20110 SHEET RCP1506 FOR CONTINUATION

REFER DRG RG 20110 SHEET RCP1508 FOR CONTINUATION

LEGEND

-  INSTALL AUDIO TACTILE LINE MARKING (ATLM)
-  CHANGE SPEED LIMIT
-  INSTALL SAFETY BARRIER
-  CLEAR VEGETATION OR INSTALL SAFETY BARRIER
-  CLEAR VEGETATION AND INSTALL SAFETY BARRIER
-  CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 28/05/21	Final Sketch Plan: --/--/--	Final Design: --/--/--
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Design Agent



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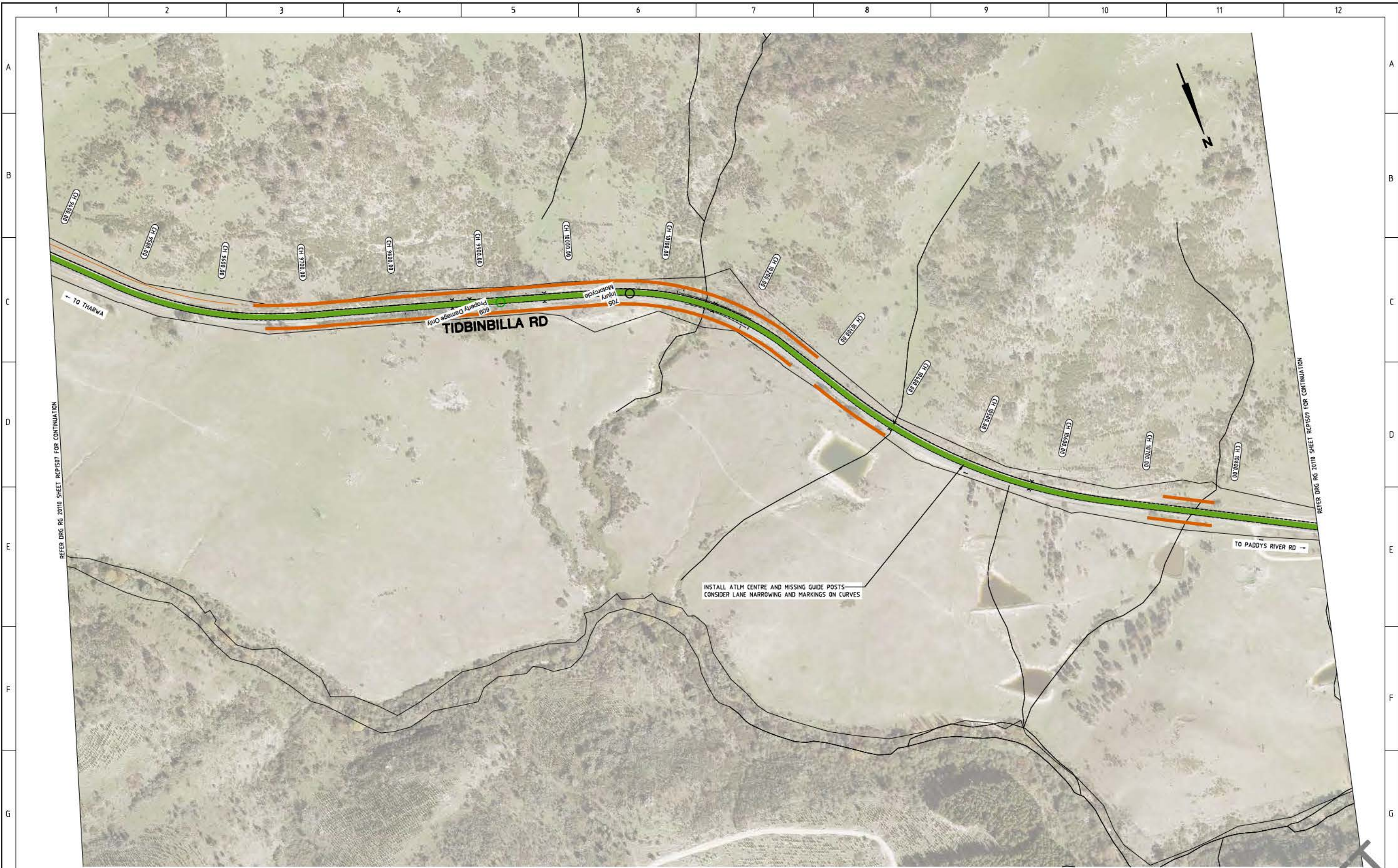
Project Officer: Kencho Choden
Project Number: 30490



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Project	Drawing Title
DELIVERING ANRAM	TIDBINBILLA ROAD CONCEPT SKETCH SHEET 7 OF 12
Date: 28/05/21	Drg. No.: RG 20110
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	Revision: 0

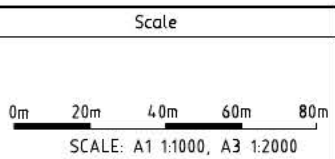
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LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

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Client

Project Officer: Kencho Choden
Project Number: 30490

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Project

DELIVERING ANRAM

Date: 28/05/21

Drawing Title

**TIDBINBILLA ROAD
CONCEPT SKETCH
SHEET 8 OF 12**

Drw. No. RG 20110	Sheet RCP1508	Revision 0
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DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

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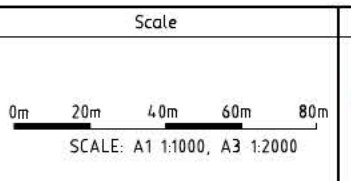
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LEGEND

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- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

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Consulting Engineers
Unit 106, 12 Preston Street
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Client

Project Officer: Kencho Choden
Project Number: 30490

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Project

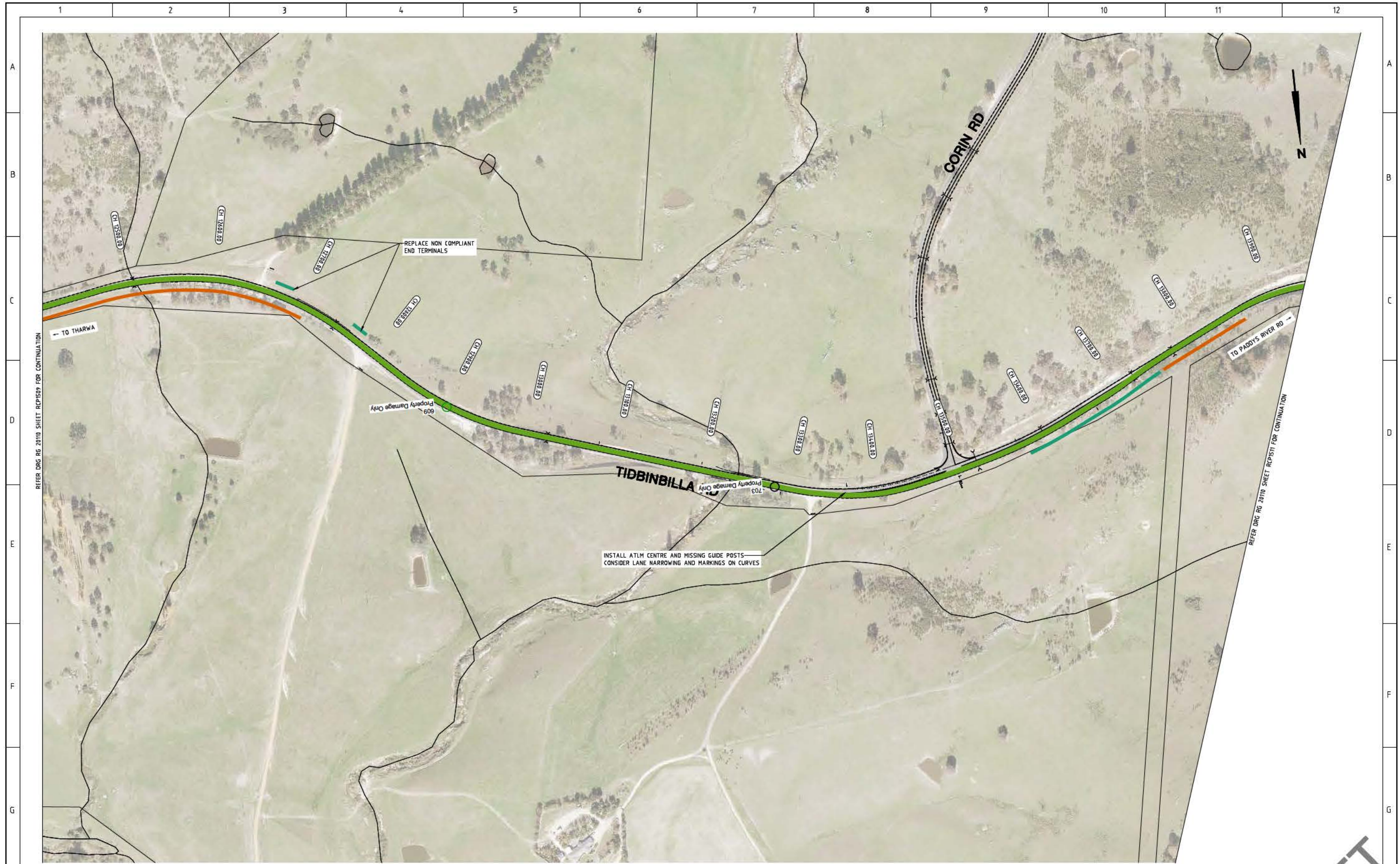
DELIVERING ANRAM

Date: 28/05/21

Drawing Title

**TIDBINBILLA ROAD
CONCEPT SKETCH
SHEET 9 OF 12**

Drg. No. RG 20110	Sheet RCP1509	Revision 0
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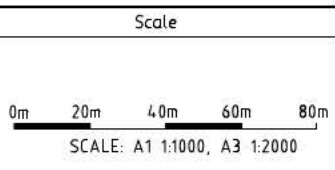
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	CHANGE SPEED LIMIT
	INSTALL SAFETY BARRIER
	CLEAR VEGETATION OR INSTALL SAFETY BARRIER
	CLEAR VEGETATION AND INSTALL SAFETY BARRIER
	CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
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For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

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Client

Project Officer: Kencho Choden
Project Number: 30490

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Project

DELIVERING ANRAM

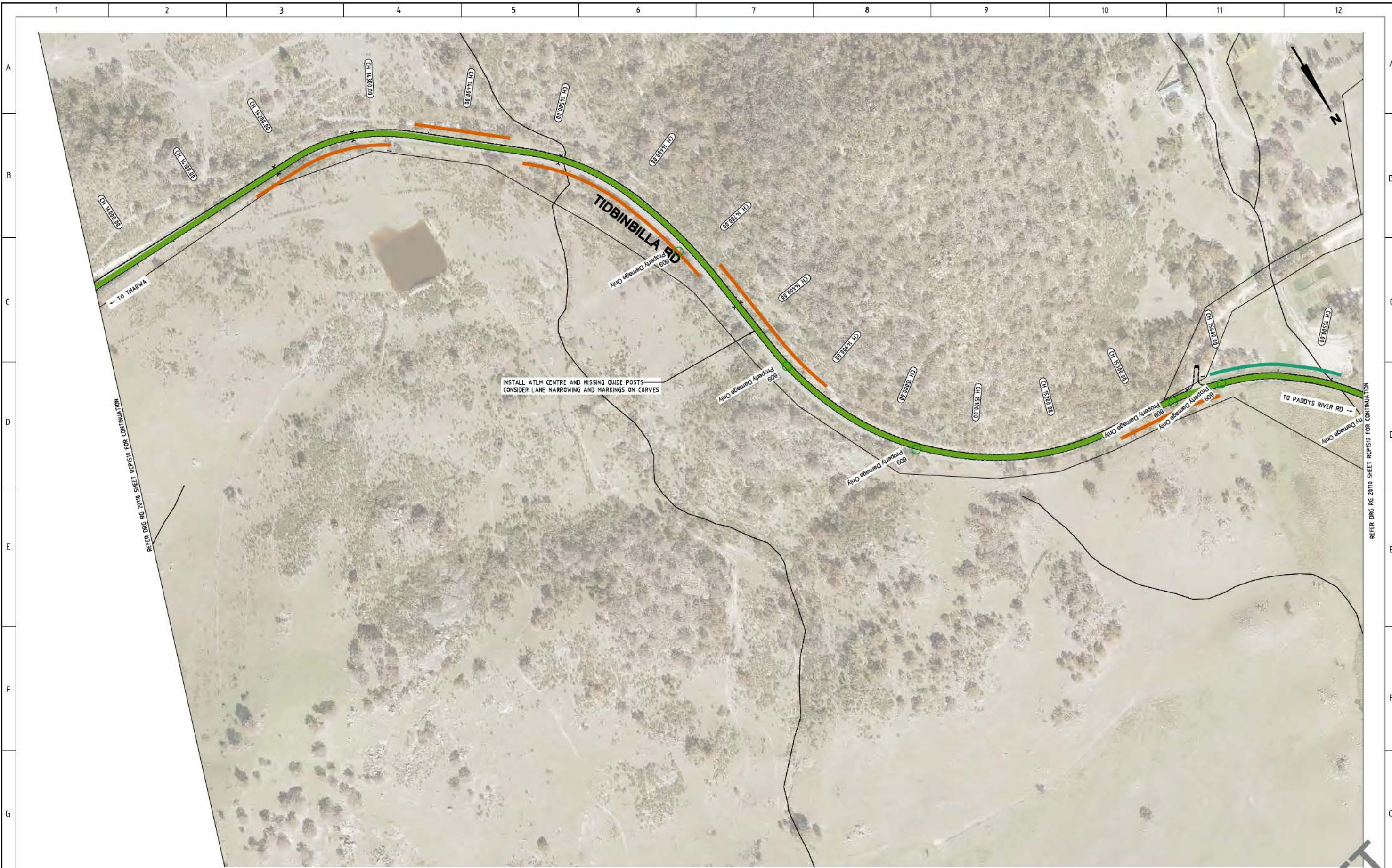
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Drawing Title

TIDBINBILLA ROAD
CONCEPT SKETCH
SHEET 10 OF 12

Drg. No. RG 20110	Sheet RCP1510	Revision 0
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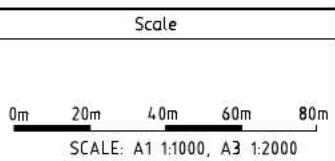


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- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 28/05/21	Final Sketch Plan: --/--/--	Final Design: --/--/--
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



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Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 62 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

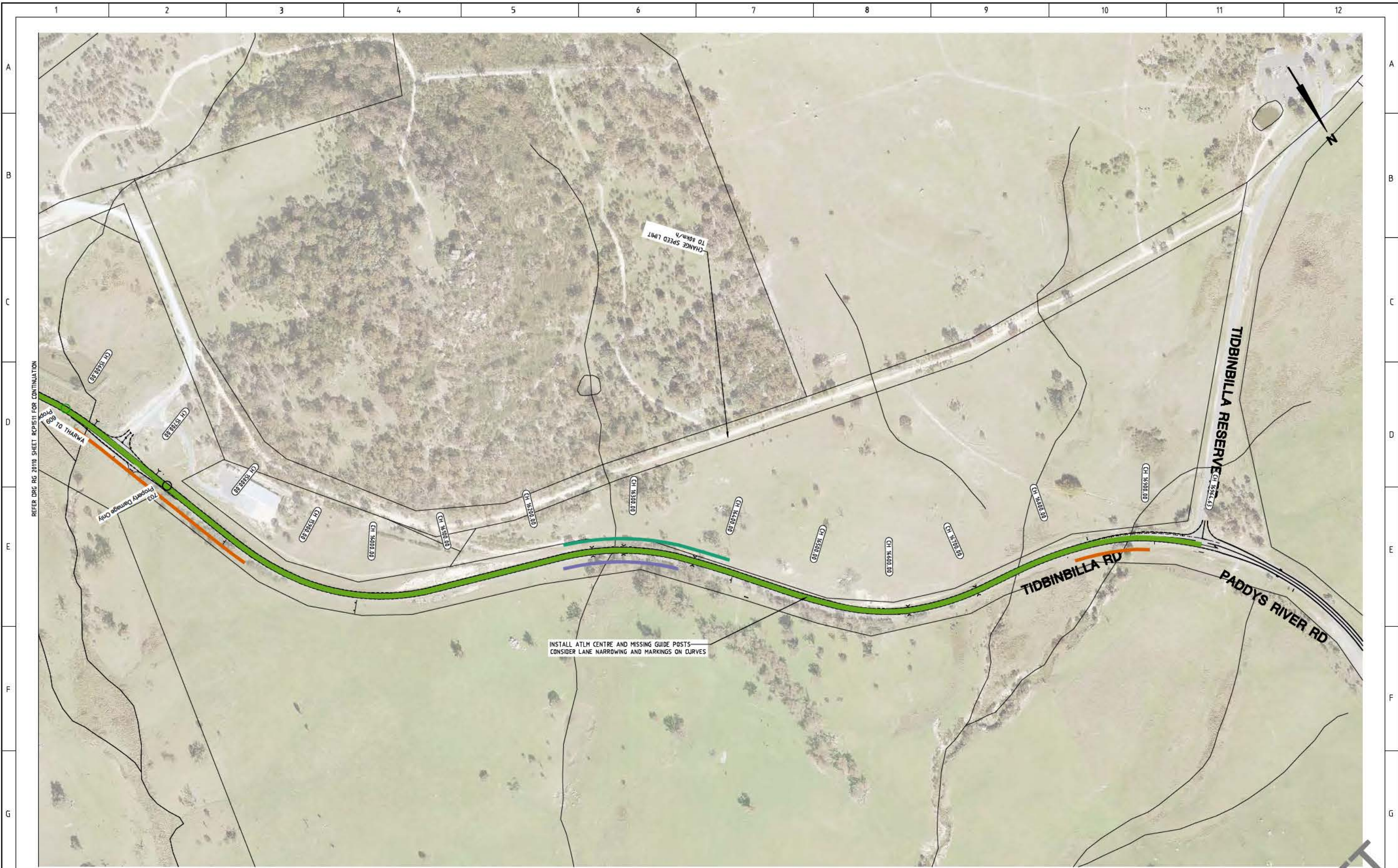
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Date: 28/05/21

Drawing Title

**TIDBINBILLA ROAD
CONCEPT SKETCH
SHEET 11 OF 12**

Drw. No. RG 20110	Sheet RCP1511	Revision 0
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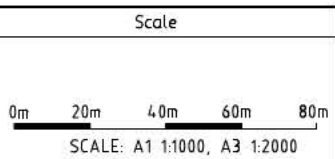


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LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

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Project Officer: Kencho Choden
Project Number: 30490

Project	Drawing Title
DELIVERING ANRAM	TIDBINBILLA ROAD CONCEPT SKETCH SHEET 12 OF 12
Date: 28/05/21	Drg. No. RG 20110 Sheet RCP1512 Revision 0

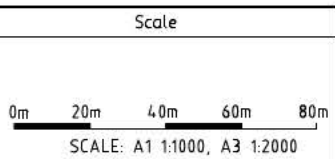
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LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
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AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 28/05/21	Final Sketch Plan: --/--/--	Final Design: --/--/--
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Client

Project Officer: Kencho Choden
Project Number: 30490

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Project	Drawing Title
DELIVERING ANRAM	NAAS ROAD CONCEPT SKETCH SHEET 1 OF 8
Date 28/05/21	Drg. No. RG 20110
Sheet RCP1601	Revision 0

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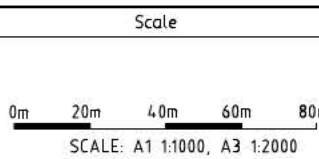
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REFER DRG RG 2010 SHEET RCP1603 FOR CONTINUATION

LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
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- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

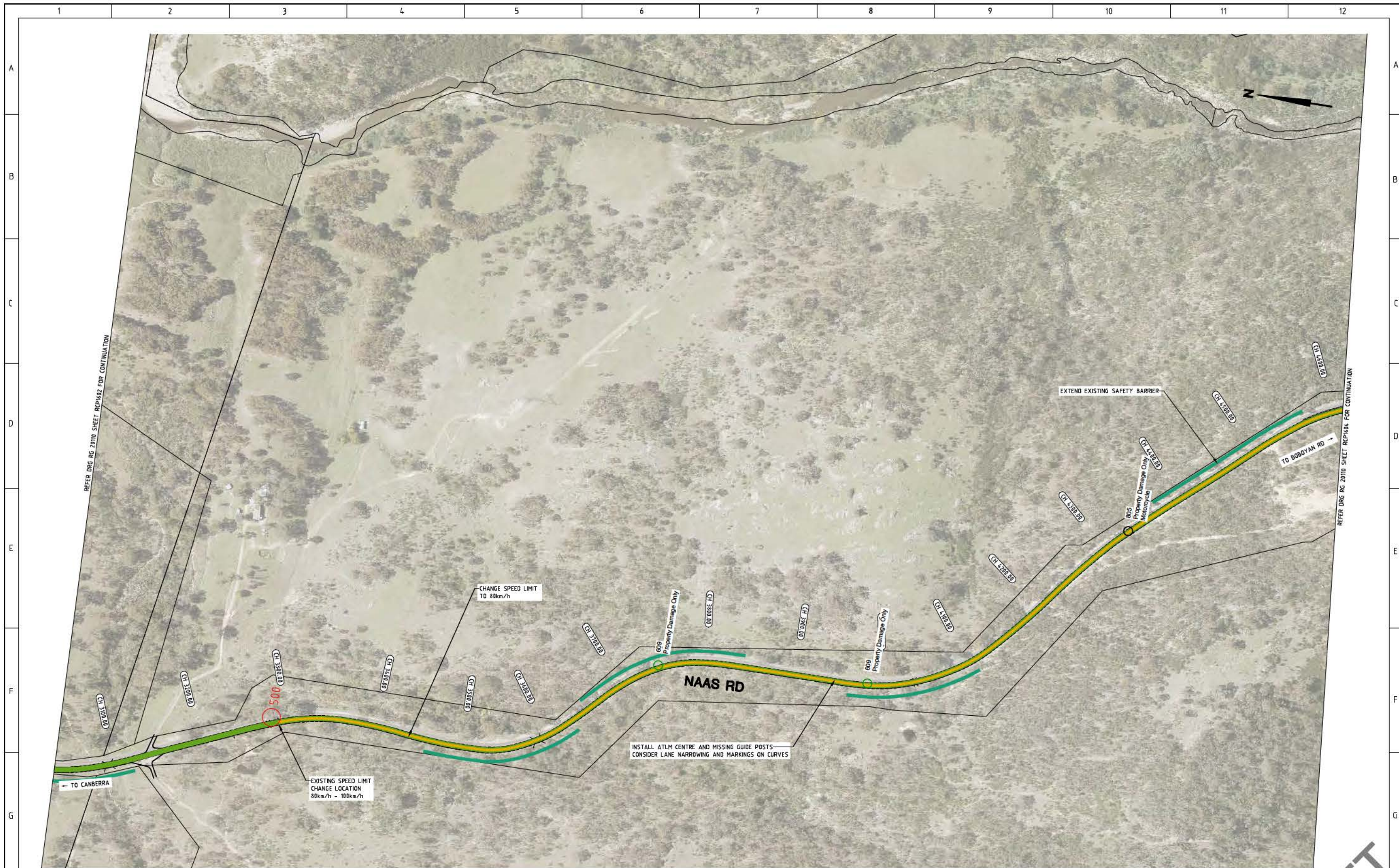
R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 62 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

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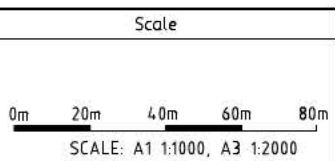
Project	Drawing Title
DELIVERING ANRAM	NAAS ROAD CONCEPT SKETCH SHEET 2 OF 8
Date 28/05/21	Drg. No. RG 20110
Sheet RCP1602	Revision 0



LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
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AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
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Designed by	█
Drawn by	█
Checked by	█
Approved by	█

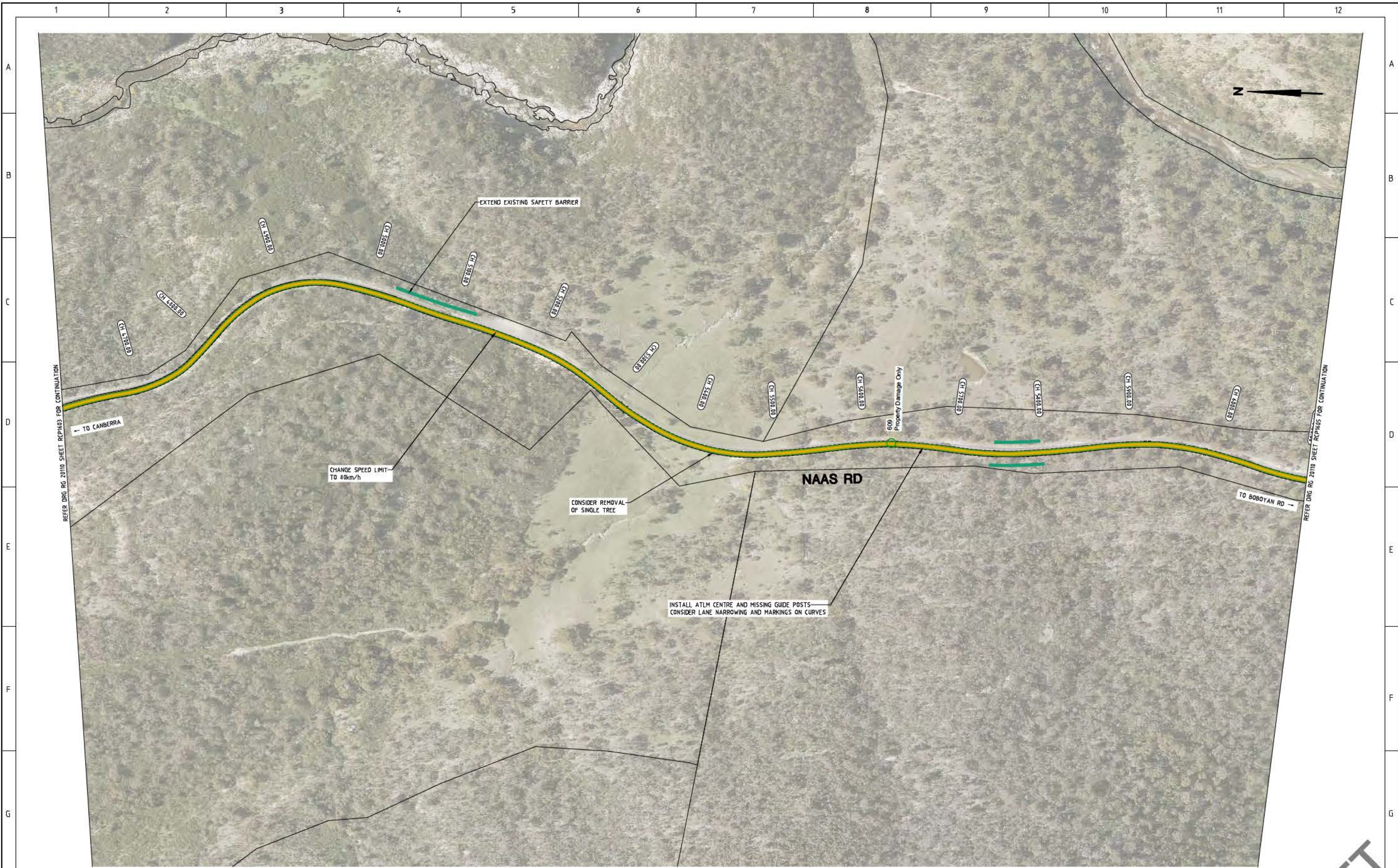
Client

Project Officer: Kencho Choden
Project Number: 30490

ACT
Government

Project	Drawing Title
DELIVERING ANRAM	NAAS ROAD CONCEPT SKETCH SHEET 3 OF 8
Date	Drg. No.
28/05/21	RG 20110
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	RCP1603
	Revision
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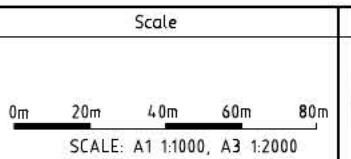
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LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE




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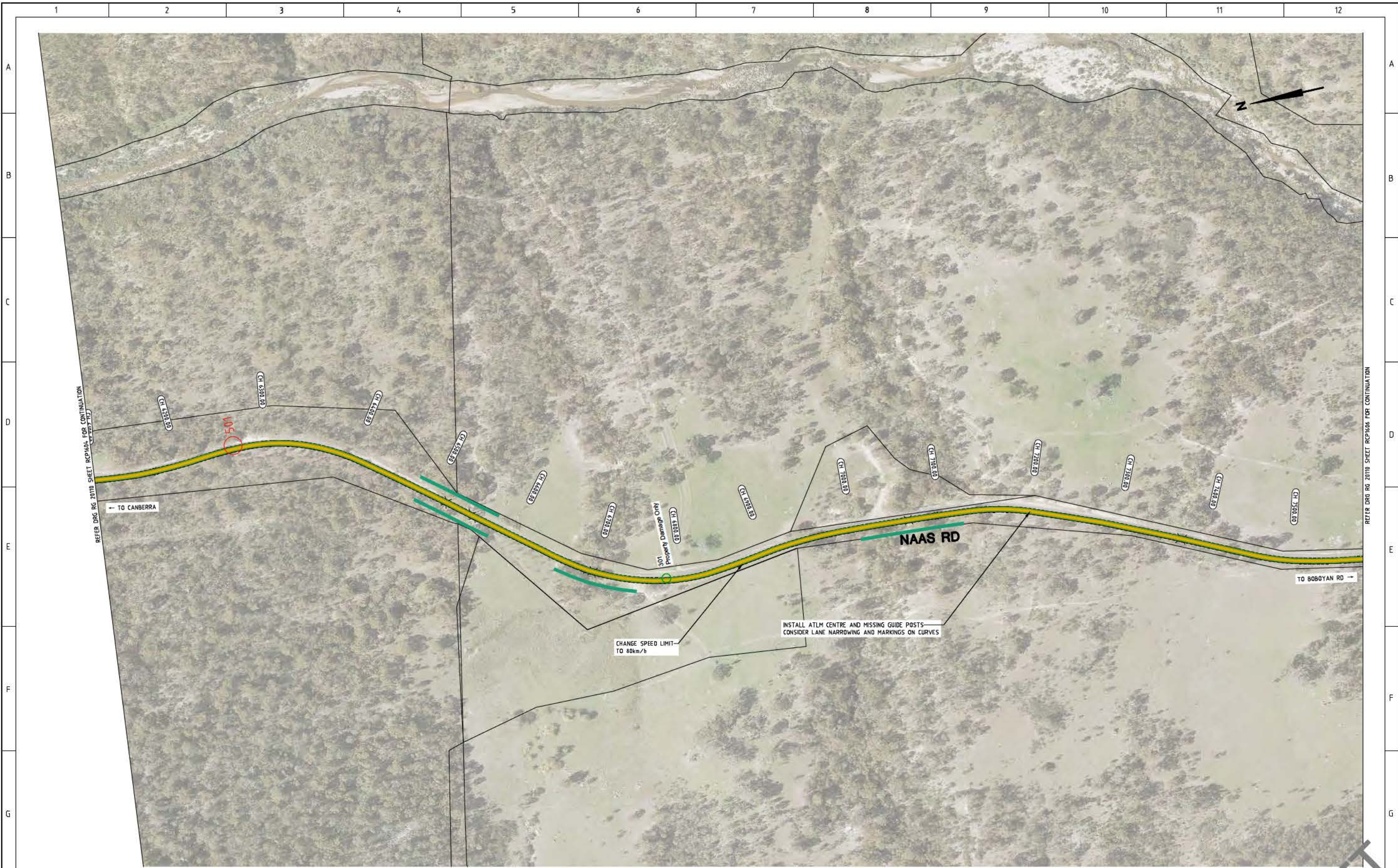
Project Officer: Kencho Choden
Project Number: 30490



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Date: 28/05/21	Drg. No. RG 20110
	Sheet RCP1604
	Revision 0

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REFER DRG RG 20110 SHEET RCP1606 FOR CONTINUATION

REFER DRG RG 20110 SHEET RCP1606 FOR CONTINUATION

← TO CANBERRA

TO BOBOYAN RD →

NAAS RD

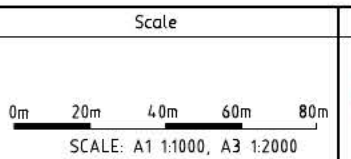
CHANGE SPEED LIMIT TO 80km/h

INSTALL ATLM CENTRE AND MISSING GUIDE POSTS
CONSIDER LANE NARROWING AND MARKINGS ON CURVES

201 Property Damage Only

- LEGEND**
- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
 - CHANGE SPEED LIMIT
 - INSTALL SAFETY BARRIER
 - CLEAR VEGETATION OR INSTALL SAFETY BARRIER
 - CLEAR VEGETATION AND INSTALL SAFETY BARRIER
 - CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



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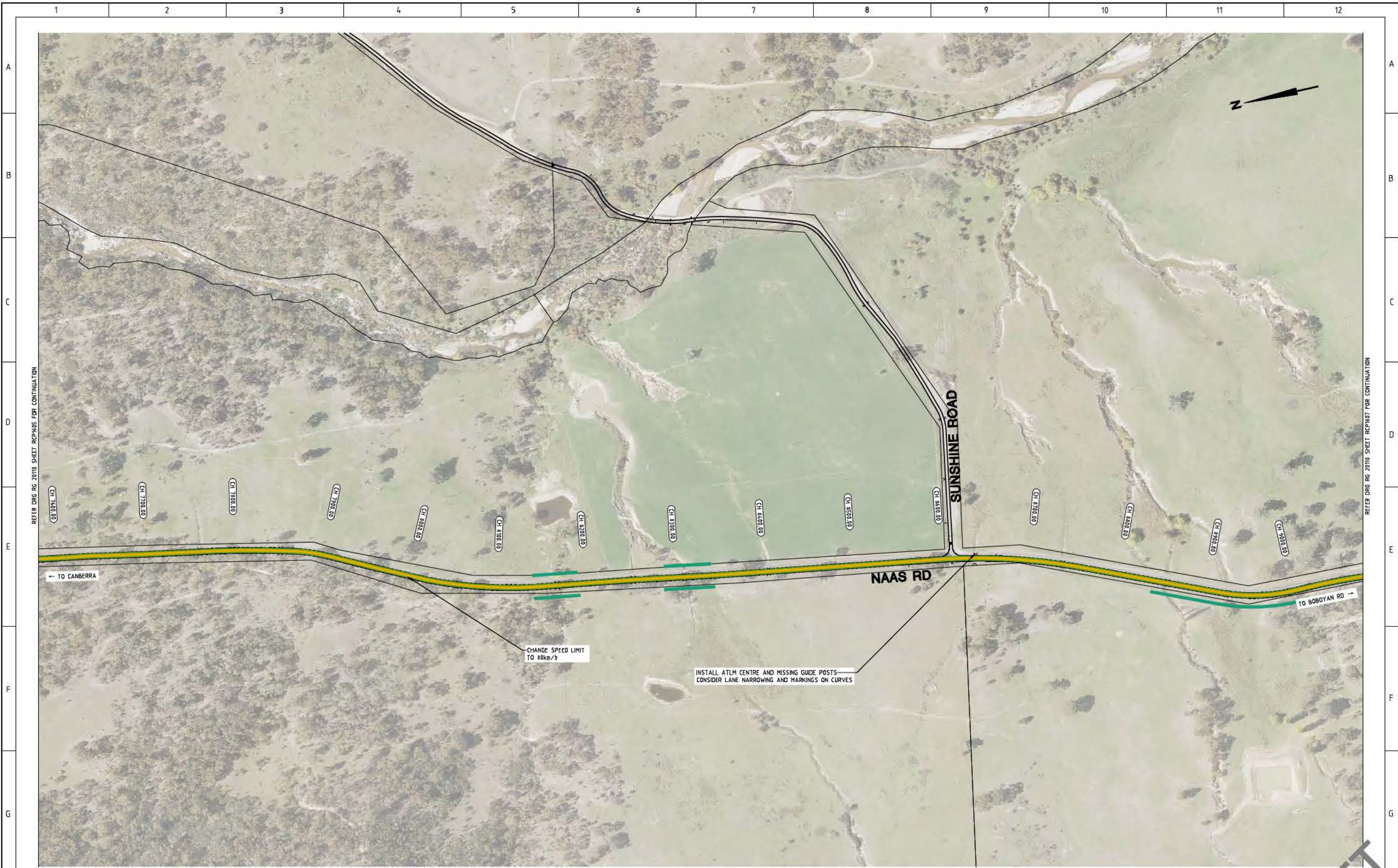
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Date: 28/05/21	Drg. No. RG 20110 Sheet RCP1605 Revision 0

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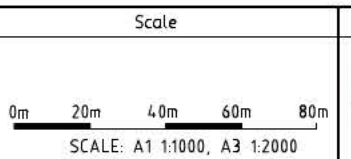
REFER DRG RG 2010 SHEET RCP1606 FOR CONTINUATION

REFER DRG RG 2010 SHEET RCP1607 FOR CONTINUATION

LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
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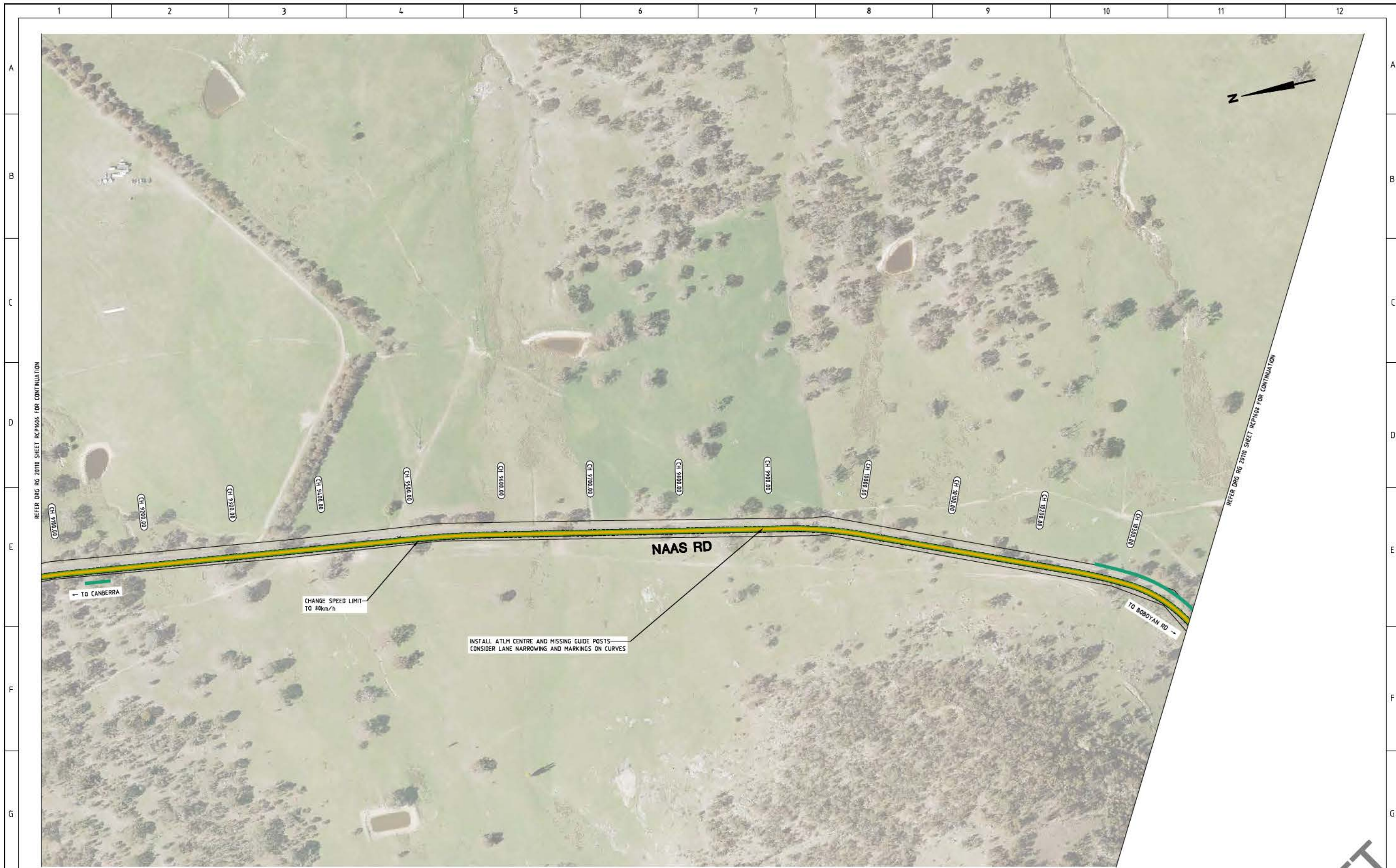
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Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project	Drawing Title
DELIVERING ANRAM	NAAS ROAD CONCEPT SKETCH SHEET 6 OF 8
Date: 28/05/21	Drg. No. RG 20110
	Sheet RCP1606
	Revision 0

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REFER DRG RG 20110 SHEET RCP1606 FOR CONTINUATION

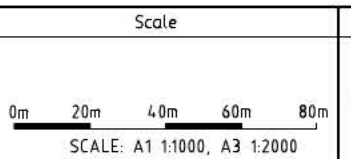
REFER DRG RG 20110 SHEET RCP1608 FOR CONTINUATION

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- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
- CLEAR VEGETATION OR INSTALL SAFETY BARRIER
- CLEAR VEGETATION AND INSTALL SAFETY BARRIER
- CLEAR VEGETATION

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

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Project Number: 30490

ACT
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Project	Drawing Title
DELIVERING ANRAM	NAAS ROAD CONCEPT SKETCH SHEET 7 OF 8
Date 28/05/21	Drg. No. RG 20110
Sheet RCP1607	Revision 0

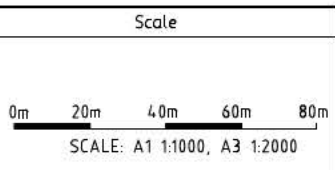
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LEGEND

- INSTALL AUDIO TACTILE LINE MARKING (ATLM)
- CHANGE SPEED LIMIT
- INSTALL SAFETY BARRIER
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Project	Drawing Title			
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Dwg. No. RG 20110	Sheet RCP1608	Revision 0		

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ACT
Government

Transport Canberra and City Services

**DELIVERING ANRAM – REDUCING RISK OF
FATAL AND SERIOUS INJURY CRASHES ON
ARTERIAL ROADS**

RURAL ROADS FINAL DESIGN SUBMISSION

TRANSPORT CANBERRA AND CITY SERVICES

RG 20110 - 10/ 2

08 SEPTEMBER 2021



Consulting Engineers

DELIVERING ANRAM – REDUCING RISK OF FATAL AND SERIOUS INJURY CRASHES ON ARTERIAL ROADS

RURAL ROADS FINAL DESIGN SUBMISSION

Prepared for Transport Canberra and City Services

Document Register

Revision	Date	Details	Author	Verifier	Reviewed
0	31/08/21	Final Design Submission	█	█	█
1	2/09/21	Amended Section 7.3	█	█	█
2	8/09/21	Incorporation of comments	█	█	█

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1. EXECUTIVE SUMMARY

RD Gossip Pty Ltd (RDG) were engaged to provide design services as part of the Delivering ANRAM – Reducing Risk of Fatal and Serious Injury Crashes on Arterial Roads for Infrastructure Delivery Partners Group (IDP) on behalf of Transport Canberra & City Services (TCCS).

The Final Design (DR) submission is for the installation of road safety barriers and Audio Tactile Line Marking (ATLM) on the selected rural roads as part of this project. The designs have been developed from the preliminary designs and incorporate stakeholder comments.

1.1 Key Project Goals

The key objectives as specified in the brief are:

- “To undertake further detailed investigation, prioritisation and documentation of road safety improvement works for implementation in stages on the basis of AusRAP and ANRAM assessments undertaken in 2019.
- To improve and facilitate road safety by developing practical measures to reduce the risk of fatalities and serious injuries;
- To review the prioritisation order proposed by Roads ACT for the Urban roads to achieve the long-term goal of having all arterial roads in the ACT 3-star rated or higher;
- To study the feasibility of implementing the proposed safety improvements on the Rural roads; and
- To prepare detailed designs and document readiness documents for the prioritised Urban road sites and selected rural road sites in packages as will be agreed with Roads ACT during the course of the study.”

These objectives are to improve the arterial road network safety throughout the ACT. The project comprises two key components, an assessment of urban arterial roads and an assessment of rural arterial roads. Each have their own elements and require the understanding of the risks involved with the road environment.

1.2 Site locations

There are 20 Urban and 13 Rural sites associated with this project. These sites are listed below:

- Urban Sites
 - Site 1 - Clarrie Hermes Dr
 - Site 2 – Streeton Drive
 - Site 3 – Horse Park Drive
 - Site 4 – Sulwood Drive
 - Site 5 – Kuringa Drive
 - Site 6 – Kingsford Smith Drive
 - Site 7 – Taverner Street
 - Site 8 – Isabella Drive
 - Site 9 – Sulwood Drive
 - Site 10 – Taverner Street
 - Site 11 – Well Station Drive
 - Site 12 – Baldwin Drive

- Site 13 – Woodcock Drive
- Site 14 – Mulligans Flat Road
- Site 15 – Horse Park Drive
- Site 16 – Owen Dixon Drive
- Site 17 – Long Gully Road
- Site 18a – Gundaroo Drive
- Site 18b – Gundaroo Drive
- Site 19 – Mirrabei Drive
- Site 20 – Gungahlin Drive
- Rural Sites
 - Site 1 – Kings Highway
 - Site 2 – Kings Highway
 - Site 3 – Kings Highway
 - Site 4 – Monaro Highway
 - Site 5 – Boboyan Road
 - Site 6 – Tharwa Drive
 - Site 7 – Brindabella Road
 - Site 8 – Apollo Road
 - Site 9 – Corin Road
 - Site 10 – Orroral Road
 - Site 11 – Uriarra Road
 - Site 12 – Tharwa Drive
 - Site 13 – Cotter Road

Each site comprises a set section of the road. Refer to the Rural Roads Feasibility Study and Urban Roads Design Option Study for further details.

This report is only for Rural Sites 4, 6 and 7, which comprise safety barriers, ATLM and TCD improvements.

2. PROJECT BRIEF STATEMENT

The project has been designed in accordance with the Project Brief. There are no departures in the design from the brief.

The design has adhered to the following standards and guidelines:

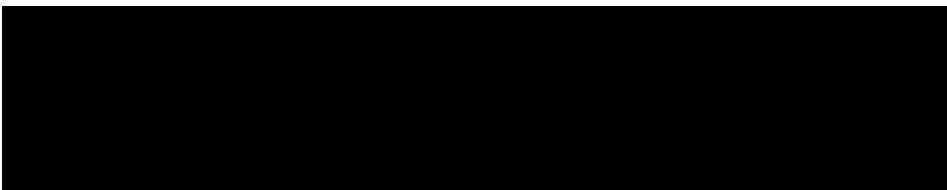
- Australian Standard AS1742.2-2009 Manual of uniform traffic control devices – Part 2: Traffic control devices for general use;
- Australian Standard AS1742.4-2020 Manual of uniform traffic control devices – Part 4: Speed Controls;
- Austroads Guide to Road Design Part 6 Roadside Design, Safety and Barriers, and
- Design Standards for Urban Infrastructure – Standard Drawings.

3. UNRESOLVED ISSUES

The Site 4 – Monaro Highway design will require National Capital Authority Works Approval prior to the award of tender.

4. ESTIMATE OF COSTS

The indicative construction cost estimates excluding GST is provide below for each site.



A summary breakdown estimate is provided in Appendix 1.

5. SAFE AND EFFECTIVE FUNCTIONING OF THE DESIGN

The design has accounted for safety during the construction, maintenance, user and demolition.

Any matters that could have been identified as critical have been designed out of the provided designs.

The following design parameters have been used for the design of the safety barriers:

- The location of the barriers are based on the identified hazards at the time of the inspection of the sites. Note that there are locations on these roads where there are hazards still present where barriers have not been designed. However, the risk assessment of the hazards indicated that the benefit in providing a length of barrier close to the traffic lane was less than retaining the individual hazard.
- Barriers were designed to provide an offset from the edge line based on achieving the minimum shy-line offset value for the road speed limit where practicable (60 km/h = 1.4 m, 80 km/h = 2 m, 100 km/h = 2.4 m).
- Hazards within the deflection zone of the safety barrier resulted in the positioning of the safety barriers within the shy-line offset. Note this does not change the parameters of the safety barrier. However, changes the flare rate requirement of the terminal where the start of the terminal is within the shy-line offset requirement.

- The location of the terminals is based on the calculation of the point of need using the run-out length method for straight sections of road and the tangential run-out path method for curved sections of road.
- Post spacings are reduced to 1 m centres to increase the strength of the safety barrier and reduce deflection in locations where the safety barrier is positioned close to a hazard or batter hinge.
- This is based on advice from the manufacturer, Safe Direction, who crash tested 1 m post spacing and uses a Transport for NSW approved simulation package to evaluate barrier deflection under various conditions.

Additional design parameters are provided in Section 7 for each Site where there is a specific treatment.

6. ACT PLANNING AND LAND AUTHORITY SUBMISSION REQUIREMENTS FOR THE PROJECT.

The works are within the existing road reserve and are considered public works (street furniture).

The works on the Monaro Highway is located in the National Capital Authority Designated Land and will require a Works Approval application. A Works Approval application was submitted on at the time the initial Final Design report was submitted on Thursday 2 September 2021.

7. DESIGN SUMMARY

The following treatments have been selected for the identified sites.

7.1 Site 4 – Monaro Highway

Monaro Highway comprises five road safety barrier locations. Three of the locations are new barrier locations and two require the extension of an existing safety barrier. The barrier extensions require are due to the current insufficient protection of hazards at the approach to the existing safety barrier. Each barrier location has been designed to provide sufficient offset from the edge of the road and deflection clearance from any obstruction behind.

Centreline and edge line ATLM is proposed for the full length of the rural section of the Monaro Highway, with the exception where ATLM is currently installed, 50 m from an intersection (unless specified), or where there are residential dwellings within 200 m of the road.

Note, a section of Monaro Highway was widened in 2020, however, no Work Executed Drawings for the works area was available at the time of the design. ATLM were installed on this section of road as part of the initial works. However, the pavement markings for this section are very faded and require remarking. It is unknown if the remarking has been identified in the 12 month defect period and will be addressed under the original project, however, the construction estimate includes an allowance to remark the lines.

7.2 Site 6 – Tharwa Drive

Tharwa Drive comprises eight road safety barrier locations. Five of the locations are new barrier locations and three require the extension of an existing safety barrier. The barrier extensions require are due to the current insufficient protection of hazards at the approach to the existing safety barrier. Each barrier location has been designed to provide sufficient offset from the edge of the road and deflection clearance from any obstruction behind

Centreline ATLM is proposed for the full length of the sealed section of Tharwa Drive, with the exception where there are residential dwellings within 200 m of the road, 50 m from an intersection (unless specified), or where the radius of the curve is less than 450 m.

There was insufficient sealed shoulder (minimum 0.5 m required between edge line and edge of seal) to install an ATLM edge line.

The speed limit on the approach to the Tharwa Bridge will be adjusted to provide a compliant transition between the 100 km/h to the 50 km/h speed limit.

Additional Design Parameters

There are four safety barrier locations where Thrie beam and associated transitions to W-beam are specified. These locations are at culvert locations where the barrier positions are in close proximity to the hinge/ edge of the culvert and the deflection of a Thrie beam is required to prevent a vehicle from entering the culvert. Post spaces on the approach to the Thrie beam are adjusted to account for the stiffening of the barrier and spanning of the barrier.

Note, there are locations on Tharwa Drive where there are hazards still present where barriers have not been designed. However, the risk assessment of the hazards indicated that the benefit in providing a length of barrier close to the traffic lane was less than retaining the individual hazard. Generally, a 2.5 m clearance between the edge line and the hinge/ edge of the culvert for a short wall culvert was considered less risk than providing a safety barrier.

7.3 Site 7 – Brindabella Road

Brindabella Road comprises 23 road safety barrier locations. 16 locations are new barrier locations and seven require the extension of an existing safety barrier. The barrier extensions are due to the current insufficient protection of hazards at the approach to the existing safety barrier. Each barrier location has been designed to provide sufficient offset from the edge of the road and deflection clearance from any obstruction behind.

Centreline ATLM is proposed for the full length of the sealed section of Brindabella Road, with the exception where there are residential dwellings within 200 m of the road, 50 m from an intersection (unless specified), or where the radius of the curve is less than 450 m.

There was insufficient sealed shoulder (minimum 0.5 m required between edge line and edge of seal) to install an ATLM edge line.

The speed limit on Brindabella Road will also be reduced to 60 km/h and 80 km/h between Cotter Road and Uriarra Road. Note that 60 km/h speed limit signs have recently been installed since the feasibility study site inspection.

Additional Design Parameters

All end terminals except one are identified to be MASH TL3 compliant (compliant to 100 km/h). One end terminal located in the 60km/h zone is marked to be MASH TL2 compliant (compliant to 70 km/h) due to the need for a reduced length of the terminal due to site constraints. The location of the TL2 end terminal is on an inside of a curve that has curve warning signs with 35 km/h advisory speed signs. It is considered unlikely that a vehicle would be able to collide with the end terminal at a speed greater than 70km/h at this location, therefore a TL2 end terminal was considered appropriate.

Motorcycle protection rails are detailed to be installed on curved sections of the road where new safety barriers are proposed to account for the main locations where motorcyclist loss of control collisions occur. The motorcycle protection rails are installed under the safety barrier rails to protect fallen riders from hazards behind the barrier, including barrier posts. Straight sections of the road do not include motorcycle protection rails as riders are less likely to lose control on these sections of road and it provides an opportunity for animals to cross the road. The trapping of animals by the motorcycle protection rails and subsequently likely collision of the animal and motorcyclist is considered a greater risk than providing the motorcycle protection rail on straight sections of road. The road safety barrier manufacturer advised that Queensland Main Roads are removing some recently installed motorcycle rails because of this issue.

Post spacings are reduced to 1 m centres to increase the strength of the safety barrier and reduce deflection in locations where the safety barrier is positioned close to a hazard or batter hinge. This is based on advice from the manufacturer, Safe Direction, who have crash tested 1 m post spacing and use a Transport for NSW approved simulation software package to evaluate barrier deflection under various speeds and impact angles. 1 m post spacings at hazards have been used at other barrier sites in the ACT to reduce barrier deflection near hazards.

8. FINAL DESIGN PLANS

The following drawings are provided with the DR submission:

8.1 Site 4 – Monaro Highway

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RCO401	0	Cover Sheet, Locality Plan and Drawing Index
RG 20110	RNO401	0	Notes
RG 20110	RTC401	0	Traffic Control Device Plan - Sheet 1 of 23
RG 20110	RTC402	0	Traffic Control Device Plan - Sheet 2 of 23
RG 20110	RTC403	0	Traffic Control Device Plan - Sheet 3 of 23
RG 20110	RTC404	0	Traffic Control Device Plan - Sheet 4 of 23
RG 20110	RTC405	0	Traffic Control Device Plan - Sheet 5 of 23
RG 20110	RTC406	0	Traffic Control Device Plan - Sheet 6 of 23
RG 20110	RTC407	0	Traffic Control Device Plan - Sheet 7 of 23
RG 20110	RTC408	0	Traffic Control Device Plan - Sheet 8 of 23
RG 20110	RTC409	0	Traffic Control Device Plan - Sheet 9 of 23
RG 20110	RTC410	0	Traffic Control Device Plan - Sheet 10 of 23
RG 20110	RTC411	0	Traffic Control Device Plan - Sheet 11 of 23
RG 20110	RTC412	0	Traffic Control Device Plan - Sheet 12 of 23
RG 20110	RTC413	0	Traffic Control Device Plan - Sheet 13 of 23
RG 20110	RTC414	0	Traffic Control Device Plan - Sheet 14 of 23
RG 20110	RTC415	0	Traffic Control Device Plan - Sheet 15 of 23
RG 20110	RTC416	0	Traffic Control Device Plan - Sheet 16 of 23
RG 20110	RTC417	0	Traffic Control Device Plan - Sheet 17 of 23
RG 20110	RTC418	0	Traffic Control Device Plan - Sheet 18 of 23

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RTC419	0	Traffic Control Device Plan - Sheet 19 of 23
RG 20110	RTC420	0	Traffic Control Device Plan - Sheet 20 of 23
RG 20110	RTC421	0	Traffic Control Device Plan - Sheet 21 of 23
RG 20110	RTC422	0	Traffic Control Device Plan - Sheet 22 of 23
RG 20110	RTC423	0	Traffic Control Device Plan - Sheet 23 of 23
RG 20110	RCN401	0	Construction Plan - Sheet 1 of 3
RG 20110	RCN402	0	Construction Plan - Sheet 2 of 3
RG 20110	RCN403	0	Construction Plan - Sheet 3 of 3

8.2 Site 6 – Tharwa Drive

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RCO601	0	Cover Sheet, Locality Plan and Drawing Index
RG 20110	RNO601	0	Notes
RG 20110	RTC601	0	Traffic Control Device Plan - Sheet 1 of 7
RG 20110	RTC602	0	Traffic Control Device Plan - Sheet 2 of 7
RG 20110	RTC603	0	Traffic Control Device Plan - Sheet 3 of 7
RG 20110	RTC604	0	Traffic Control Device Plan - Sheet 4 of 7
RG 20110	RTC605	0	Traffic Control Device Plan - Sheet 5 of 7
RG 20110	RTC606	0	Traffic Control Device Plan - Sheet 6 of 7
RG 20110	RTC607	0	Traffic Control Device Plan - Sheet 7 of 7
RG 20110	RCN601	0	Construction Plan - Sheet 1 of 5
RG 20110	RCN602	0	Construction Plan - Sheet 2 of 5
RG 20110	RCN603	0	Construction Plan - Sheet 3 of 5
RG 20110	RCN604	0	Construction Plan - Sheet 4 of 5
RG 20110	RCN605	0	Construction Plan - Sheet 5 of 5

8.3 Site 7 – Brindabella Road

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RCO701	0	Cover Sheet and Locality Plan
RG 20110	RDI701	0	Drawing Index
RG 20110	RNO701	0	Notes
RG 20110	RTC701	0	Traffic Control Device Plan - Sheet 1 of 30
RG 20110	RTC702	0	Traffic Control Device Plan - Sheet 2 of 30
RG 20110	RTC703	0	Traffic Control Device Plan - Sheet 3 of 30
RG 20110	RTC704	0	Traffic Control Device Plan - Sheet 4 of 30
RG 20110	RTC705	0	Traffic Control Device Plan - Sheet 5 of 30

**DELIVERING ANRAM – REDUCING RISK OF FATAL AND SERIOUS INJURY CRASHES ON ARTERIAL ROADS
RURAL ROADS FINAL DESIGN SUBMISSION**

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RTC706	0	Traffic Control Device Plan - Sheet 6 of 30
RG 20110	RTC707	0	Traffic Control Device Plan - Sheet 7 of 30
RG 20110	RTC708	0	Traffic Control Device Plan - Sheet 8 of 30
RG 20110	RTC709	0	Traffic Control Device Plan - Sheet 9 of 30
RG 20110	RTC710	0	Traffic Control Device Plan - Sheet 10 of 30
RG 20110	RTC711	0	Traffic Control Device Plan - Sheet 11 of 30
RG 20110	RTC712	0	Traffic Control Device Plan - Sheet 12 of 30
RG 20110	RTC713	0	Traffic Control Device Plan - Sheet 13 of 30
RG 20110	RTC714	0	Traffic Control Device Plan - Sheet 14 of 30
RG 20110	RTC715	0	Traffic Control Device Plan - Sheet 15 of 30
RG 20110	RTC716	0	Traffic Control Device Plan - Sheet 16 of 30
RG 20110	RTC717	0	Traffic Control Device Plan - Sheet 17 of 30
RG 20110	RTC718	0	Traffic Control Device Plan - Sheet 18 of 30
RG 20110	RTC719	0	Traffic Control Device Plan - Sheet 19 of 30
RG 20110	RTC720	0	Traffic Control Device Plan - Sheet 20 of 30
RG 20110	RTC721	0	Traffic Control Device Plan - Sheet 21 of 30
RG 20110	RTC722	0	Traffic Control Device Plan - Sheet 22 of 30
RG 20110	RTC723	0	Traffic Control Device Plan - Sheet 23 of 30
RG 20110	RTC724	0	Traffic Control Device Plan - Sheet 24 of 30
RG 20110	RTC725	0	Traffic Control Device Plan - Sheet 25 of 30
RG 20110	RTC726	0	Traffic Control Device Plan - Sheet 26 of 30
RG 20110	RTC727	0	Traffic Control Device Plan - Sheet 27 of 30
RG 20110	RTC728	0	Traffic Control Device Plan - Sheet 28 of 30
RG 20110	RTC729	0	Traffic Control Device Plan - Sheet 29 of 30
RG 20110	RTC730	0	Traffic Control Device Plan - Sheet 30 of 30
RG 20110	RCN701	0	Construction Plan - Sheet 1 of 14
RG 20110	RCN702	0	Construction Plan - Sheet 2 of 14
RG 20110	RCN703	0	Construction Plan - Sheet 2 of 14
RG 20110	RCN704	0	Construction Plan - Sheet 4 of 14
RG 20110	RCN705	0	Construction Plan - Sheet 5 of 14
RG 20110	RCN706	0	Construction Plan - Sheet 6 of 14
RG 20110	RCN707	0	Construction Plan - Sheet 7 of 14
RG 20110	RCN708	0	Construction Plan - Sheet 8 of 14
RG 20110	RCN709	0	Construction Plan - Sheet 9 of 14
RG 20110	RCN710	0	Construction Plan - Sheet 10 of 14
RG 20110	RCN711	0	Construction Plan - Sheet 11 of 14
RG 20110	RCN712	0	Construction Plan - Sheet 12 of 14

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RCN713	0	Construction Plan - Sheet 13 of 14
RG 20110	RCN714	0	Construction Plan - Sheet 14 of 14

The drawings are provided in Appendix 2.

9. DRAINAGE MASTER PLAN

No changes to the existing drainage. A drainage masterplan is not required.

10. OUTLINES FOR MAJOR STRUCTURES

Not applicable.

11. GEO-TECHNICAL REPORT

Not applicable.

12. PAVEMENT OPTIONS STUDY

Not applicable.

13. PRELIMINARY GRADING AND TYPICAL CROSS SECTIONS

Not applicable.

14. PREDICTED 63 DB(A) LINE FOR MAJOR ROADS

Not applicable.

15. SITES OF SIGNIFICANCE (SECTION C9) AND GAZETTED AREAS

Not applicable.

16. LANDSCAPE DESIGN

Verge areas disturbed during construction will be top dressed and seeded.

17. ENVIRONMENTAL CONSIDERATIONS

Some exotic plants will need to be removed on Tharwa Drive for the installation of the road safety barrier and associated barrier deflection at Guardrail 6A.

Refer to drawings:

Drawing No.	Sheet No.	Drawing Title
RG 20110	RCN601	Construction Plan – 1 of 5

18. IMPACT ON EXISTING AND FUTURE SERVICES, ROAD RESERVATIONS AND LEASES, ACCESS TO EXISTING AND PLANNED FACILITIES, PEDESTRIAN DESIRE LINES ETC.

A Dial Before You Dig (DBYD) assessment was carried for the sites that involved civil design on 24 June 2021. Services have not been located or potholed as the design did not impact services.

The assessment identified the following utilities on site:

- Monaro Highway
 - Evoenergy/Icon Water
 - Telstra
- Tharwa Highway
 - Evoenergy/Icon Water
 - Telstra
- Brindabella Road
 - Evoenergy/Icon Water
 - Telstra
 - Transport Canberra and City Services

Overhead powerlines are in the vicinity of sites on Monaro Highway and Brindabella Road.

The Contractor is to locate all the services as part of the construction of the safety barriers. The location of posts can be adjusted on site for any unforeseen conflict with services.

19. TRAFFIC MANAGEMENT DURING CONSTRUCTION

Temporary Traffic Management (TTM) Plans will be prepared by the contractor. There are no significant TTM issues identified at this stage.

20. PROPOSALS FOR MATERIALS, COLOURS AND FINISHES

Not applicable.

21. A PROPOSAL FOR PROVIDING CONDUITS, PRE-BLASTING ETC. TO ALLOW FOR THE FUTURE INSTALLATION OF SERVICES SUCH AS TRAFFIC LIGHTS, WATER MAINS ETC.

Not applicable.

22. PLANTING CONCEPTS INCLUDING SPECIES;

Not applicable.

23. TRAFFIC CONTROL DEVICES PLAN

Installation of the ATLM are detailed on the TCD plans.

We have detailed the replacement of missing, badly damaged and faded signs and lines where appropriate. This was not a requirement of the brief and it is noted that we have not assessed the requirement for, or suitability of the existing TCD's.

Refer to the following drawings:

23.1 Site 4 – Monaro Highway

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RTC401	0	Traffic Control Device Plan - Sheet 1 of 23
RG 20110	RTC402	0	Traffic Control Device Plan - Sheet 2 of 23

**DELIVERING ANRAM – REDUCING RISK OF FATAL AND SERIOUS INJURY CRASHES ON ARTERIAL ROADS
RURAL ROADS FINAL DESIGN SUBMISSION**

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RTC403	0	Traffic Control Device Plan - Sheet 3 of 23
RG 20110	RTC404	0	Traffic Control Device Plan - Sheet 4 of 23
RG 20110	RTC405	0	Traffic Control Device Plan - Sheet 5 of 23
RG 20110	RTC406	0	Traffic Control Device Plan - Sheet 6 of 23
RG 20110	RTC407	0	Traffic Control Device Plan - Sheet 7 of 23
RG 20110	RTC408	0	Traffic Control Device Plan - Sheet 8 of 23
RG 20110	RTC409	0	Traffic Control Device Plan - Sheet 9 of 23
RG 20110	RTC410	0	Traffic Control Device Plan - Sheet 10 of 23
RG 20110	RTC411	0	Traffic Control Device Plan - Sheet 11 of 23
RG 20110	RTC412	0	Traffic Control Device Plan - Sheet 12 of 23
RG 20110	RTC413	0	Traffic Control Device Plan - Sheet 13 of 23
RG 20110	RTC414	0	Traffic Control Device Plan - Sheet 14 of 23
RG 20110	RTC415	0	Traffic Control Device Plan - Sheet 15 of 23
RG 20110	RTC416	0	Traffic Control Device Plan - Sheet 16 of 23
RG 20110	RTC417	0	Traffic Control Device Plan - Sheet 17 of 23
RG 20110	RTC418	0	Traffic Control Device Plan - Sheet 18 of 23
RG 20110	RTC419	0	Traffic Control Device Plan - Sheet 19 of 23
RG 20110	RTC420	0	Traffic Control Device Plan - Sheet 20 of 23
RG 20110	RTC421	0	Traffic Control Device Plan - Sheet 21 of 23
RG 20110	RTC422	0	Traffic Control Device Plan - Sheet 22 of 23
RG 20110	RTC423	0	Traffic Control Device Plan - Sheet 23 of 23

23.2 Site 6 – Tharwa Drive

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RTC601	0	Traffic Control Device Plan - Sheet 1 of 7
RG 20110	RTC602	0	Traffic Control Device Plan - Sheet 2 of 7
RG 20110	RTC603	0	Traffic Control Device Plan - Sheet 3 of 7
RG 20110	RTC604	0	Traffic Control Device Plan - Sheet 4 of 7
RG 20110	RTC605	0	Traffic Control Device Plan - Sheet 5 of 7
RG 20110	RTC606	0	Traffic Control Device Plan - Sheet 6 of 7
RG 20110	RTC607	0	Traffic Control Device Plan - Sheet 7 of 7

23.3 Site 7 – Brindabella Road

Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RTC701	0	Traffic Control Device Plan - Sheet 1 of 30
RG 20110	RTC702	0	Traffic Control Device Plan - Sheet 2 of 30

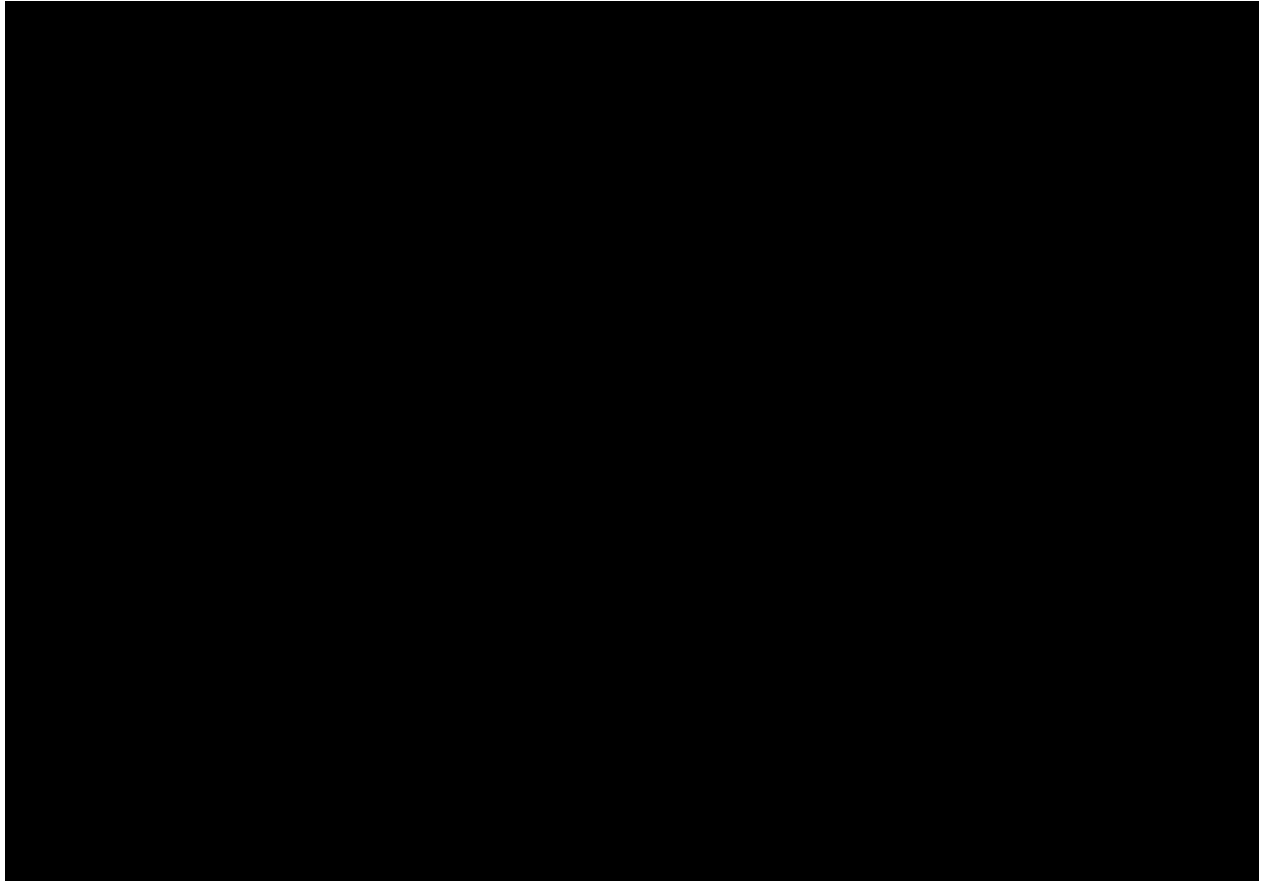
Drawing No.	Sheet No.	Revision No.	Drawing Title
RG 20110	RTC703	0	Traffic Control Device Plan - Sheet 3 of 30
RG 20110	RTC704	0	Traffic Control Device Plan - Sheet 4 of 30
RG 20110	RTC705	0	Traffic Control Device Plan - Sheet 5 of 30
RG 20110	RTC706	0	Traffic Control Device Plan - Sheet 6 of 30
RG 20110	RTC707	0	Traffic Control Device Plan - Sheet 7 of 30
RG 20110	RTC708	0	Traffic Control Device Plan - Sheet 8 of 30
RG 20110	RTC709	0	Traffic Control Device Plan - Sheet 9 of 30
RG 20110	RTC710	0	Traffic Control Device Plan - Sheet 10 of 30
RG 20110	RTC711	0	Traffic Control Device Plan - Sheet 11 of 30
RG 20110	RTC712	0	Traffic Control Device Plan - Sheet 12 of 30
RG 20110	RTC713	0	Traffic Control Device Plan - Sheet 13 of 30
RG 20110	RTC714	0	Traffic Control Device Plan - Sheet 14 of 30
RG 20110	RTC715	0	Traffic Control Device Plan - Sheet 15 of 30
RG 20110	RTC716	0	Traffic Control Device Plan - Sheet 16 of 30
RG 20110	RTC717	0	Traffic Control Device Plan - Sheet 17 of 30
RG 20110	RTC718	0	Traffic Control Device Plan - Sheet 18 of 30
RG 20110	RTC719	0	Traffic Control Device Plan - Sheet 19 of 30
RG 20110	RTC720	0	Traffic Control Device Plan - Sheet 20 of 30
RG 20110	RTC721	0	Traffic Control Device Plan - Sheet 21 of 30
RG 20110	RTC722	0	Traffic Control Device Plan - Sheet 22 of 30
RG 20110	RTC723	0	Traffic Control Device Plan - Sheet 23 of 30
RG 20110	RTC724	0	Traffic Control Device Plan - Sheet 24 of 30
RG 20110	RTC725	0	Traffic Control Device Plan - Sheet 25 of 30
RG 20110	RTC726	0	Traffic Control Device Plan - Sheet 26 of 30
RG 20110	RTC727	0	Traffic Control Device Plan - Sheet 27 of 30
RG 20110	RTC728	0	Traffic Control Device Plan - Sheet 28 of 30
RG 20110	RTC729	0	Traffic Control Device Plan - Sheet 29 of 30
RG 20110	RTC730	0	Traffic Control Device Plan - Sheet 30 of 30

24. RECOMMENDATIONS

Subject to funding availability, we recommend that the safety barriers and Traffic Control Device improvements proceed as designed.

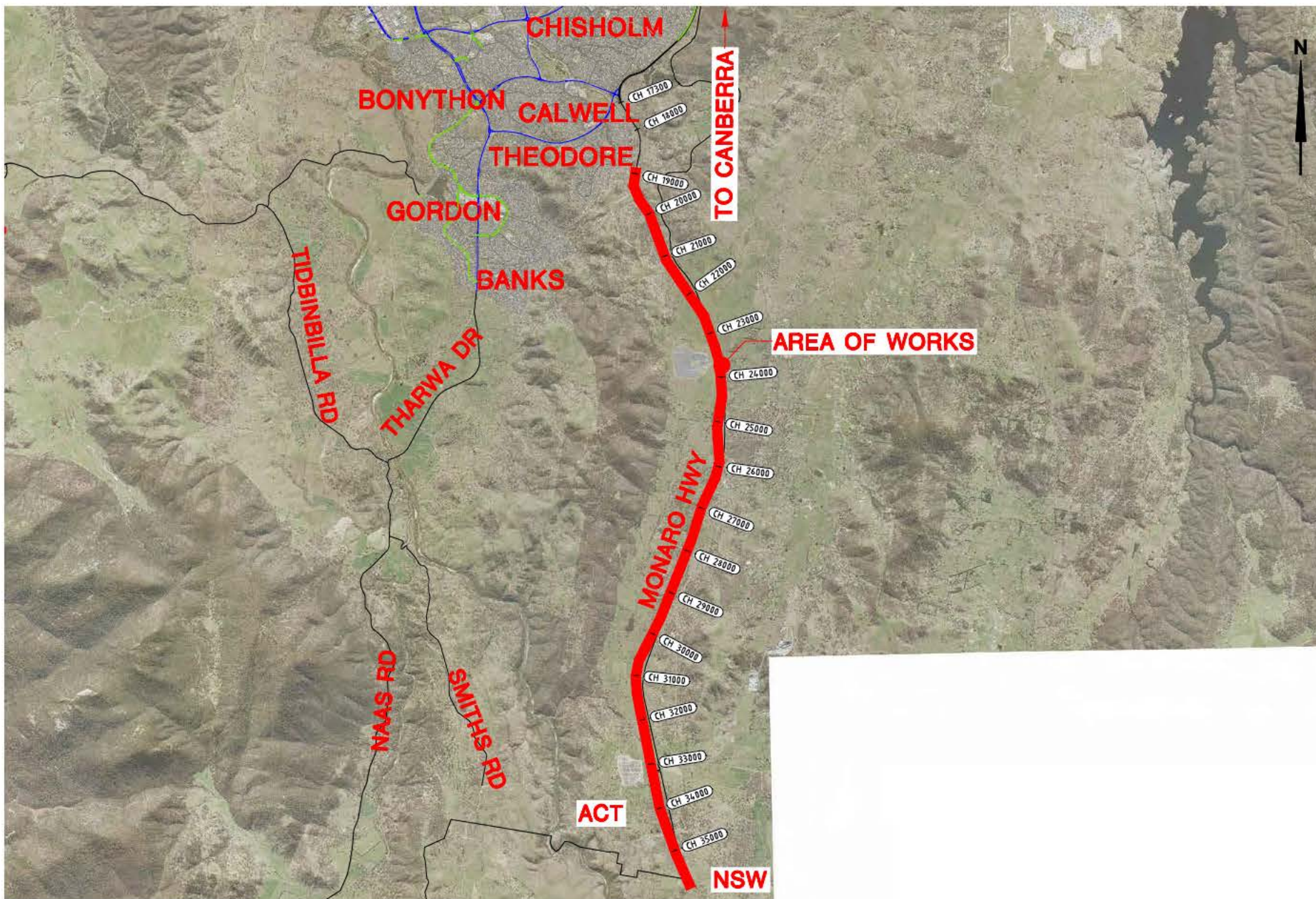
APPENDIX 1 – SUMMARY OF THE BILL OF QUANTITIES

**SUMMARY OF THE SCHEDULE OF RATES
DELIVERING ANRAM - STAGE 2
FINAL DESIGN ESTIMATE**



APPENDIX 2 – DETAILED DESIGN DRAWINGS

DELIVERING ANRAM - STAGE 2 SAFETY BARRIERS & TCDS MONARO HWY - SITE 4 FINAL DESIGN DRAWINGS



LOCALITY PLAN

DRAWING INDEX

DRAWING NO.	SHEET NO.	DRAWING TITLE
RG 20110	RC04.01	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
RG 20110	RN04.01	NOTES AND LEGEND
RG 20110	RTC4.01	TRAFFIC CONTROL DEVICE PLAN - SHEET 1 OF 23
RG 20110	RTC4.02	TRAFFIC CONTROL DEVICE PLAN - SHEET 2 OF 23
RG 20110	RTC4.03	TRAFFIC CONTROL DEVICE PLAN - SHEET 3 OF 23
RG 20110	RTC4.04	TRAFFIC CONTROL DEVICE PLAN - SHEET 4 OF 23
RG 20110	RTC4.05	TRAFFIC CONTROL DEVICE PLAN - SHEET 5 OF 23
RG 20110	RTC4.06	TRAFFIC CONTROL DEVICE PLAN - SHEET 6 OF 23
RG 20110	RTC4.07	TRAFFIC CONTROL DEVICE PLAN - SHEET 7 OF 23
RG 20110	RTC4.08	TRAFFIC CONTROL DEVICE PLAN - SHEET 8 OF 23
RG 20110	RTC4.09	TRAFFIC CONTROL DEVICE PLAN - SHEET 9 OF 23
RG 20110	RTC4.10	TRAFFIC CONTROL DEVICE PLAN - SHEET 10 OF 23
RG 20110	RTC4.11	TRAFFIC CONTROL DEVICE PLAN - SHEET 11 OF 23
RG 20110	RTC4.12	TRAFFIC CONTROL DEVICE PLAN - SHEET 12 OF 23
RG 20110	RTC4.13	TRAFFIC CONTROL DEVICE PLAN - SHEET 13 OF 23
RG 20110	RTC4.14	TRAFFIC CONTROL DEVICE PLAN - SHEET 14 OF 23
RG 20110	RTC4.15	TRAFFIC CONTROL DEVICE PLAN - SHEET 15 OF 23
RG 20110	RTC4.16	TRAFFIC CONTROL DEVICE PLAN - SHEET 16 OF 23
RG 20110	RTC4.17	TRAFFIC CONTROL DEVICE PLAN - SHEET 17 OF 23
RG 20110	RTC4.18	TRAFFIC CONTROL DEVICE PLAN - SHEET 18 OF 23
RG 20110	RTC4.19	TRAFFIC CONTROL DEVICE PLAN - SHEET 19 OF 23
RG 20110	RTC4.20	TRAFFIC CONTROL DEVICE PLAN - SHEET 20 OF 23
RG 20110	RTC4.21	TRAFFIC CONTROL DEVICE PLAN - SHEET 21 OF 23
RG 20110	RTC4.22	TRAFFIC CONTROL DEVICE PLAN - SHEET 22 OF 23
RG 20110	RTC4.23	TRAFFIC CONTROL DEVICE PLAN - SHEET 23 OF 23
RG 20110	RCN4.01	CONSTRUCTION PLAN - SHEET 1 OF 3
RG 20110	RCN4.02	CONSTRUCTION PLAN - SHEET 2 OF 3
RG 20110	RCN4.03	CONSTRUCTION PLAN - SHEET 3 OF 3

APPROVED BY:
M.Gordon
30/08/2021
REVISION 0
SHEET RC04.01



ACT
Government



Consulting Engineers

SPECIFICATION NOTES

1. ALL WORKS SHALL COMPLY WITH THE CURRENT EDITION OF THE ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS AND THE DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

SERVICES NOTES

- EXISTING SERVICES ARE NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL CLEARANCES FROM ALL SERVICE AUTHORITIES.
- THE CONTRACTOR SHALL LOCATE AND IF REQUIRED POTHOLE ALL SERVICES THAT CROSS OR ARE ADJACENT TO THE WORKS. THE CONTRACTOR SHALL ALLOW FOR PAYMENT OF STANDBY/CLEARANCE FEES AS REQUIRED BY SERVICE AUTHORITIES.
- FOR ALL CRITICAL GAS MAINS (STEEL OR 75mm DIAMETER OR GREATER OR THAT HAVE A MAXIMUM ALLOWABLE OPERATING PRESSURE OF 1050 kPa OR GREATER) THAT ARE WITHIN 15m OF A PROPOSED EXCAVATION, THE CONTRACTOR SHALL CONTACT JEMENA AND AGREE ON CONSTRUCTION PROCEDURES PRIOR TO EXCAVATION. ATTENDANCE ON SITE BY JEMENA AT THE CONTRACTORS EXPENSE MAY BE REQUIRED, CONTACT JEMENA ON 1300 543 237. IN CASE OF EMERGENCY REPORT DAMAGE TO GAS ASSETS ON 131 909

WASTE MANAGEMENT PLAN

- THE CONTRACTOR SHALL ENSURE THAT WASTE MATERIALS ARE DISPOSED OF AT AN APPROVED RECYCLING DEPOT.
- UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT TIPPING OF MATERIALS AT THE 'TIP FACE' SHALL NOT BE PERMITTED.

POLLUTION, SEDIMENT AND EROSION CONTROL NOTES

- PROVIDE TEMPORARY ENTRY CONTROL AND KERB INLET PROTECTION AT ALL EXISTING AND NEW ENTRANCES TO SUMPS AND UNCOVERED MANHOLES. PROVIDE GEOTEXTILE SEDIMENT TRAPS AND STRAW BALE CHECK DAMS IN DRAINAGE LINES. PROVIDE GEOTEXTILE FABRIC SEDIMENT CONTROL BARRIERS DOWNSTREAM OF ALL EARTHWORK LIMITS.
- PROVIDE STABILISED SERVICE AND ACCESS APRONS INTO SITE COMPOUND AND EGRESS POINTS ONTO PUBLIC ROADS.
- ALL EROSION CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED FOR THE DURATION OF THE CONTRACT AND SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE SUPERINTENDENT.
- THE CONTRACTOR MAY BE REQUIRED TO OBTAIN AN ENVIRONMENTAL AUTHORISATION AND IS RESPONSIBLE FOR THE APPLICATION, APPROVAL AND ANY ASSOCIATED FEES.
- THE CONTRACTOR SHALL TAKE THE STEPS THAT ARE PRACTICABLE AND REASONABLE TO PREVENT OR MINIMISE ENVIRONMENTAL HARM OR ENVIRONMENTAL NUISANCE CAUSED, OR LIKELY TO BE CAUSED, BY ALL CONSTRUCTION ACTIVITIES.
- THE ABOVE REQUIREMENTS ARE ADDITIONAL / SUPPLEMENTARY TO ANY DIRECTION / REQUIREMENT GIVEN BY THE EPA.

TEMPORARY TRAFFIC MANAGEMENT CONCEPT NOTES

- ALL TRAFFIC MOVEMENTS ARE TO BE MAINTAINED AT ALL TIMES. DELIVERIES THAT REQUIRE TRAFFIC TO BE STOPPED BY TRAFFIC CONTROLLERS OR WORKS THAT REQUIRE SPEED REDUCTION SHALL NOT BE UNDERTAKEN DURING PEAK HOUR PERIODS (7.30AM - 9.15AM, 4.00PM - 6.30PM WEEKDAYS).
- TEMPORARY TRAFFIC MANAGEMENT DEVICES ARE TO BE IN ACCORDANCE WITH AS 1742.3-2019.
- ALL WORKERS SHALL WEAR HIGH VISIBILITY EXTERNAL CLOTHING IN ACCORDANCE WITH AS 1742.3-2019.
- THE CONTRACTOR SHALL SUBMIT A TTM PLAN TO THE SUPERINTENDENT FOR ENDORSEMENT AND THEN SUBMIT TO ROADS ACT AND TRANSPORT FOR NSW FOR AUTHORISATION. AMENDMENTS TO THE DRAWINGS SHALL FOLLOW THE SAME ENDORSEMENT AND AUTHORISATION PROCESS.
- THE CONTRACTOR SHALL PROVIDE INDIVIDUAL TTM PLANS FOR BOTH WORKING AND NON WORKING HOURS.
- THE CONTRACTOR SHALL ENSURE THAT ALL SIGNS THAT ARE TO BE COVERED ARE COVERED WITH AN APPROVED DENSE OPAQUE MATERIAL (NOT HESSIAN, SHADE CLOTH OR THE LIKE). THE COVERINGS SHALL COVER THE ENTIRE SIGN FACE AND BE SECURELY FIXED TO PREVENT DISLODGEEMENT BY WIND OR VANDALS.

LANDSCAPE, VERGE, TREE MANAGEMENT AND IRRIGATION NOTES

- ALL LANDSCAPE WORKS ARE TO BE IN ACCORDANCE AND COMPLY WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS SEPTEMBER 2002 - SECTION 9: LANDSCAPE.
- ANY WORKS THAT ALTER OR DISTURB GRASSED AREAS OR OTHER OPEN AREAS IN PUBLIC LAND MUST BE REINSTATED TO MATCH ADJACENT EXISTING CONDITIONS BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS SEPTEMBER 2002 - SECTION 9: LANDSCAPE AND TO THE APPROVAL OF TRANSPORT CANBERRA AND CITY SERVICES.
- EXCAVATION THAT OCCURS WITHIN THE DRIP ZONE OF A TREE MUST BE APPROVED TO MEET THE REQUIREMENTS OF TREE PROTECTION AND OTHER ACT LEGISLATION - REFER ALSO TO AS 4970 - 2009 PROTECTION OF TREES AT DEVELOPMENT SITES. ANY EXCAVATION IS TO BE RESTRICTED TO ONE SIDE OF THE TREE ONLY. WHERE EXCAVATION IS APPROVED THE FOLLOWING MEASURES ARE TO BE ADOPTED FOR TREE PROTECTION:
 - DO NOT TEAR ROOTS FROM THE GROUND - CUT CLEANLY AROUND THE EXCAVATION PERIMETER EXPOSE THE ROOTS WITH NON DAMAGING EXCAVATION EG HYDRO JETTING ON LOW PRESSURE TO ENSURE NO DAMAGE TO THE ROOTS CAMBIAL LAYER & THEN CUTTING CLEANLY WITH SHARP HAND PRUNING TOOLS, UNLESS APPROVED BY A TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES OFFICER DO NOT SEVER LARGE ROOTS (GREATER THAN 30mm DIA.) CLOSER THAN HALFWAY FROM THE DRIP LINE TO THE TRUNK. ALL ROOTS MUST BE CUT CLEANLY WITH EQUIPMENT SPECIFICALLY DESIGNED TO CUT ROOTS OR OTHER APPROVED PRUNING EQUIPMENT.
 - ROOTS EXPOSED DURING EXCAVATION MUST BE PROTECTED FROM DESICCATION AND KEPT LIGHTLY WATERED OR COVERED WITH HESSIAN WHICH MUST BE KEPT MOIST. BACKFILL EXCAVATION ASAP.
 - TRUNK PROTECTION (BOARDS) MUST BE IMPLEMENTED.
 - UNDER BORING MAY BE AN OPTION.
 - WATER TREES WHICH HAVE HAD DISTURBANCE TO THEIR ROOT ZONE. BASED ON SEASONAL CONDITIONS THE AMOUNT AND FREQUENCY OF WATER NEEDS TO BE ADAPTED TO SUIT THE TREES REQUIREMENT.
 - DUE TO TREE STABILITY ISSUES THE PROJECT SUPERINTENDENT/ARBORIST AND TRANSPORT CANBERRA AND CITY SERVICES (PH: 6207 5478) SHALL BE CONTACTED IF ANY ROOT GREATER THAN 30mm DIAMETER IS PROPOSED TO BE SEVERED. THE CONTRACTOR SHALL LEAVE THE ROOT EXPOSED UNTIL DIRECTED OTHERWISE BY THE SUPERINTENDENT/ARBORIST &/OR TRANSPORT CANBERRA AND CITY SERVICES. ALL ROOTS SMALLER THAN 30mm DIAMETER SHALL BE CUT BY AN APPROVED ARBORIST
- THE CONTRACTOR SHALL ONLY EXCAVATE WITHIN THE AREA REQUIRED FOR THE PROPOSED WORKS AS AGREED BY TRANSPORT CANBERRA AND CITY SERVICES.
- THE CONTRACTOR SHALL ENSURE THAT ALL HOT EXHAUST FUMES FROM PLANT AND EQUIPMENT USED ON THE SITE ARE DIRECTED AWAY FROM THE EXISTING TREE CANOPIES.
- ALL MACHINERY MUST REMAIN CLEAR OF TREE CANOPIES (CANOPY +2m) - NO CANOPY PRUNING TO BE UNDERTAKEN FOR CLEARANCE UNLESS APPROVED BY TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES SECTION. TREE PROTECTION MEASURES THAT MEET THE REQUIREMENTS OF AS 4970 - 2009 MUST BE SET UP TO PREVENT ACCESS/COMPACTION TO THE AREA BENEATH TREE CANOPIES, UNLESS OTHERWISE APPROVED BY TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES SECTION, DURING WORKS FOR MACHINERY, VEHICLES, AND MATERIALS ETC.
- THE CONTRACTOR SHALL ALLOW FOR HYDRO EXCAVATION USING AN APPROVED LOW PRESSURE (1500kPa WITHIN 3m OF TREE TRUNKS, 2000kPa ELSEWHERE) MACHINE AS NECESSARY TO ENSURE COMPLIANCE WITH THE ABOVE REQUIREMENTS.
- WHERE DISTURBED BY THE WORKS THE CONTRACTOR SHALL ADJUST ALL SPRINKLERS, PIPE WORK AND WIRING AS DIRECTED BY THE SUPERINTENDENT. ALL WORK SHALL BE UNDERTAKEN BY AN APPROVED IRRIGATION SUB-CONTRACTOR AT THE CONTRACTORS EXPENSE.
- ALL TREE AND ROOT TRIMMING/REMOVAL SHALL BE UNDERTAKEN BY A QUALIFIED ARBORIST UPON APPROVAL BY TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES SECTION AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL ENSURE ALL TREE PROTECTION FENCING IS ERECTED PRIOR TO COMMENCEMENT OF ANY SITE CONSTRUCTION WORKS AND IS TO REMAIN FOR THE ENTIRE DURATION OF THE WORKS. THE CONTRACTOR SHALL ENSURE THAT NO VEHICULAR PARKING, STORAGE AND STOCKPILING WITHIN TREE PROTECTION FENCING OCCURS THROUGHOUT THE CONTRACT DURATION.

SAFETY BARRIER NOTES

- ALL SAFETY BARRIER INSTALLATIONS SHALL BE IN ACCORDANCE WITH
 - AS 3845.1-2015 ROAD SAFETY BARRIER SYSTEMS AND DEVICES - PART 1 - ROAD SAFETY BARRIER SYSTEMS
 - DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS
 - AUSTROADS GUIDE TO ROAD DESIGN PART 6 ROADSIDE DESIGN, SAFETY AND BARRIERS
- THE CONTRACTOR SHALL FIELD CHECK THE PROPOSED SAFETY BARRIER POST LOCATIONS TO ENSURE THAT THERE IS NO CONFLICT WITH OTHER ASSETS, FINISHES, FIXTURES AND FITTINGS. THE PROPOSED DESIGN IS TO BE ACCURATELY FIELD CHECKED PRIOR TO MANUFACTURE OF THE NEW SAFETY BARRIER TO ENSURE NO CONFLICT.
- THE CONTRACTOR SHALL UNDERTAKE POST DEFLECTION TESTING TO MEET TfNSW REQUIREMENTS. A MINIMUM OF 5% OF POSTS SHALL BE TESTED AND AT LEAST 2 POSTS ON EACH LENGTH OF SAFETY BARRIER. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE SUPERINTENDENT ON WHICH POSTS ARE TO BE TESTED.

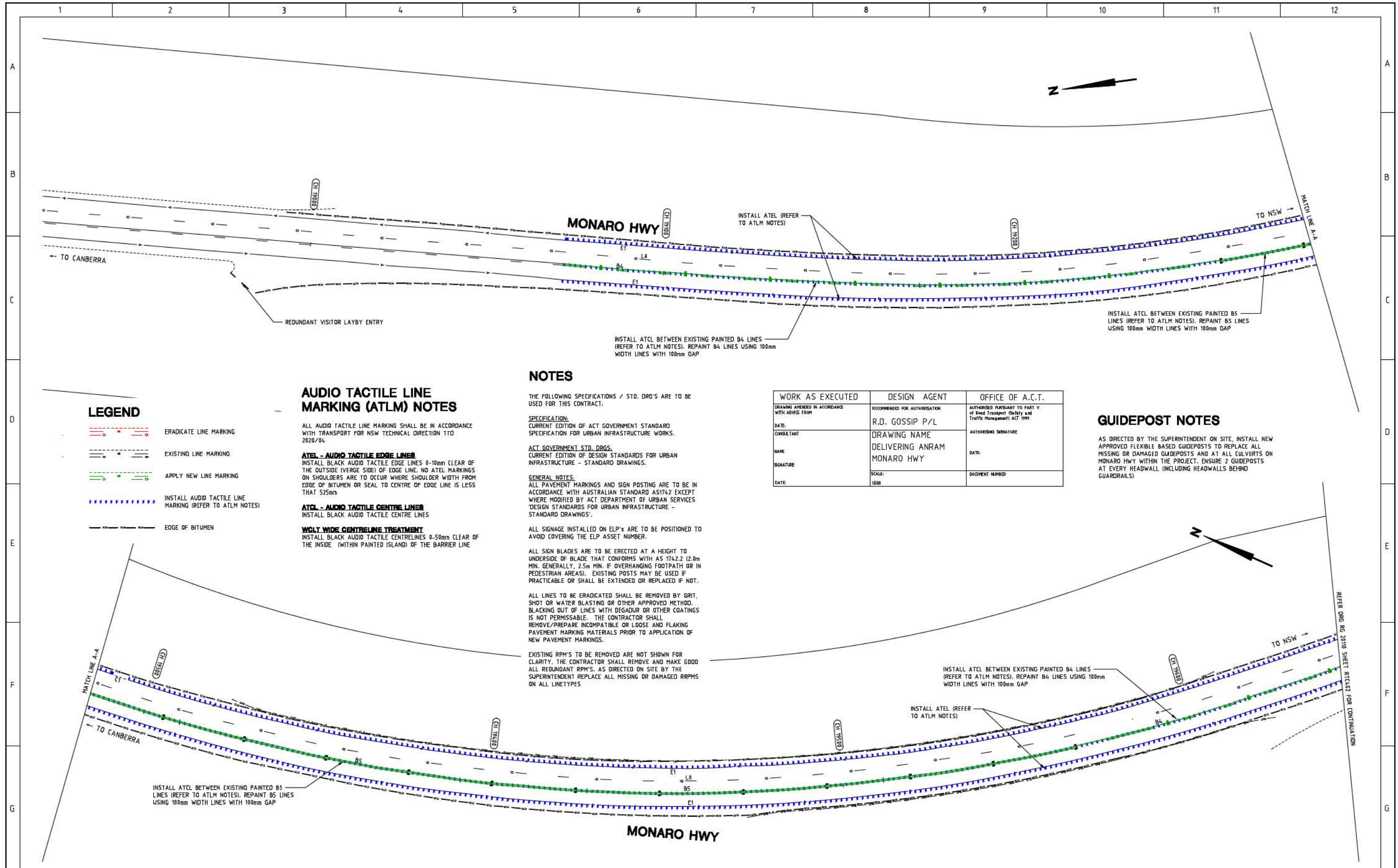
CONSTRUCTION LEGEND



SAFETY NOTES

- GENERAL NOTES FOR ALL PHASES OF THE PROJECTS LIFE**
 - THE CONTRACTOR SHALL COMPLY WITH THE CURRENT WORK HEALTH AND SAFETY ACT, REGULATIONS AND INDUSTRY CODES AND PRACTICE GUIDELINES.
 - SERVICES**
 - SERVICE LOCATION PRIOR TO COMMENCEMENT OF WORKS ON SITE.**
 - IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL SERVICE CLEARANCES (INCLUDING SERVICE TIE LOCATIONS) FROM ALL SERVICE AUTHORITIES.
 - THE CONTRACTOR SHALL HYDRO-POTHOLE ALL SERVICES THAT CROSS OR ARE ADJACENT TO THE PROPOSED WORKS TO DETERMINE THE VERTICAL AND HORIZONTAL ALIGNMENT.
 - THE CONTRACTOR SHALL IDENTIFY ALL OVERHEAD SERVICES WITHIN THE WORK SITE AREA AND PROTECT PLANT.
 - FOR ALL GAS MAINS 75mm DIAMETER OR GREATER THAT HAVE A PRESSURE OF 1050 kPa OR GREATER THAT ARE WITHIN 15m OF A PROPOSED EXCAVATION, THE CONTRACTOR SHALL CONTACT ZNX ON (02) 6203 0660 AND AGREE ON CONSTRUCTION PROCEDURES PRIOR TO EXCAVATION. ATTENDANCE ON SITE BY ZNX AT THE CONTRACTORS EXPENSE MAY BE REQUIRED.
 - WORKS NEAR SERVICES AND STRUCTURES.**
 - AVOID THE USE OF HEAVY MACHINERY OR HEAVY VIBRATING LOADS NEAR LARGE TRUNK GAS, WATER SUPPLY, COMMUNICATIONS INFRASTRUCTURE, RETAINING WALLS AND SUSPENDED SLABS. THE CONTRACTOR SHALL KEEP CLEAR OF ALL OVERHEAD SERVICES WITHIN THE WORK SITE AREA.
 - TEMPORARY TRAFFIC MANAGEMENT: (AS1742.3)**
 - ALL TEMPORARY TRAFFIC MANAGEMENT DEVICES ARE TO BE IN ACCORDANCE WITH AS 1742.3-2009.
 - ALL WORKERS SHALL WEAR HIGH VISIBILITY EXTERNAL CLOTHING IN ACCORDANCE WITH AS 1742.3-2009.
 - ALL SIGNS AND DEVICES SHALL BE ERECTED WITHIN THE LINE OF SIGHT OF THE ROAD USER. THEY SHALL NOT BE OBTAINED BY VEGETATION OR PARKED VEHICLES AND SHALL BE POSITIONED WHERE THEY DO NOT BECOME A HAZARD TO PEDESTRIANS OR VEHICLES.
 - THE CONTRACTOR SHALL ASSESS ANY EXCAVATIONS GREATER THAN 500mm IN DEPTH AND PROVIDE PROTECTION AND DELINEATION IN ACCORDANCE WITH TABLE E1 OF AS 1742.3.
 - THE CONTRACTOR SHALL SUBMIT TTM PLANS TO THE SUPERINTENDENT FOR ENDORSEMENT AND THEN SUBMIT TO ROADS ACT FOR APPROVAL. AMENDMENTS TO THE TTM PLANS SHALL FOLLOW THE SAME ENDORSEMENT AND APPROVAL PROCESS.
 - WHERE EXISTING OR NEW TTM SIGNAGE (BY OTHERS) CONFLICTS WITH THE PROPOSED TTM DEVICES, THE CONTRACTOR SHALL LIAISE WITH ROADS ACT AND ADJUST THE TTM SIGNAGE AS REQUIRED TO ENSURE THE TTM DESIGN INTENT IS MET AND REMOVE THE CONFLICT.
 - ALL STAR PICKETS SHALL BE CAPPED AT ALL TIMES.
 - NO WORK IS TO BE UNDERTAKEN IN POOR VISIBILITY CONDITIONS (BAD WEATHER, FOG, DUST, SMOKE, SUN GLARE, DARKNESS ETC).
 - MOBILE PHONES SHALL ONLY BE USED IN A PROTECTED AREA OR 10m CLEAR OF ADJACENT VEHICULAR TRAFFIC AND CONSTRUCTION VEHICLES. MOBILE PHONES SHALL NOT BE USED WHEN OPERATING ANY PLANT OR EQUIPMENT.
 - THE CONTRACTOR SHALL IDENTIFY AND KEEP CLEAR OF ALL OVERHEAD OBSTRUCTIONS WITHIN THE WORK SITE AREA (TREES, BRIDGES ETC).
 - ALL EXPOSED VERTICAL REINFORCEMENT BARS SHALL BE COGGED.
 - CONSTRUCTION PHASE**
 - THE CONTRACTOR SHALL UNDERTAKE A SITE SPECIFIC RISK ASSESSMENT PRIOR TO UNDERTAKING ANY WORKS ON THE SITE.
 - SITE CONSTRAINTS IDENTIFIED AS 'NON STANDARD' WITHIN THE SCOPE OF THE PROJECT ARE AS FOLLOWS:
 - NO WORK OR PLANT SHALL BE ON OR WITHIN 1.2m OF THE ROAD PAVEMENTS DURING PEAK TRAFFIC PERIODS (7.30AM-9.15AM AND 4.00PM-6.30PM WEEKDAYS).
 - PROVIDE PEDESTRIAN PROTECTION FENCING AROUND ALL EXPOSED EXCAVATIONS.
 - EXISTING SERVICES HAVE BEEN INSTALLED UNDER OLD STANDARDS AND MAY HAVE LESS COVER THAN CURRENT STANDARDS. ALL EXCAVATIONS GREATER THAN 300mm DEEP SHOULD BE HYDRO EXCAVATED.
 - ASBESTOS MAY BE PRESENT IN SUBGRADE. ASBESTOS SHALL BE RESPONDED TO AS A WHS INCIDENT AND REMOVED BY A LICENSED SUB-CONTRACTOR.
 - MAINTENANCE PHASE**
 - THE CONTRACTOR SHALL UNDERTAKE A SITE SPECIFIC RISK ASSESSMENT PRIOR TO UNDERTAKING MAINTENANCE ON THE SITE AS SITE CONDITIONS MAY VARY FROM THE ORIGINAL CONSTRUCTION PHASE (VEGETATION GROWTH, ADDITIONAL SERVICE INSTALLATIONS ETC).
 - SITE CONSTRAINTS IDENTIFIED AS 'NON STANDARD' WITHIN THE SCOPE OF THE PROJECT ARE AS FOLLOWS:
 - NO WORK OR PLANT SHALL BE ON OR WITHIN 1.2m OF THE ROAD PAVEMENTS DURING PEAK TRAFFIC PERIODS (7.30AM-9.15AM AND 4.00PM-6.30PM WEEKDAYS).
 - PROVIDE PEDESTRIAN PROTECTION FENCING AROUND ALL EXPOSED EXCAVATIONS.
 - EXISTING SERVICES HAVE BEEN INSTALLED UNDER OLD STANDARDS AND MAY HAVE LESS COVER THAN CURRENT STANDARDS. ALL EXCAVATIONS GREATER THAN 300mm DEEP SHOULD BE HYDRO EXCAVATED.
 - ASBESTOS MAY BE PRESENT IN SUBGRADE. ASBESTOS SHALL BE RESPONDED TO AS A WHS INCIDENT AND REMOVED BY A LICENSED SUB-CONTRACTOR.
- DEMOLITION PHASE**
 - THE CONTRACTOR SHALL UNDERTAKE A SITE SPECIFIC RISK ASSESSMENT PRIOR TO UNDERTAKING DEMOLITION ON THE SITE AS SITE CONDITIONS MAY VARY FROM THE ORIGINAL CONSTRUCTION PHASE (VEGETATION GROWTH, ADDITIONAL SERVICE INSTALLATIONS ETC).
 - SITE CONSTRAINTS IDENTIFIED AS 'NON STANDARD' WITHIN THE SCOPE OF THE PROJECT ARE AS FOLLOWS:
 - NO WORK OR PLANT SHALL BE ON OR WITHIN 1.2m OF THE ROAD PAVEMENTS DURING PEAK TRAFFIC PERIODS (7.30AM-9.15AM AND 4.00PM-6.30PM WEEKDAYS).
 - PROVIDE PEDESTRIAN PROTECTION FENCING AROUND ALL EXPOSED EXCAVATIONS.
 - EXISTING SERVICES HAVE BEEN INSTALLED UNDER OLD STANDARDS AND MAY HAVE LESS COVER THAN CURRENT STANDARDS. ALL EXCAVATIONS GREATER THAN 300mm DEEP SHOULD BE HYDRO EXCAVATED.
 - ASBESTOS MAY BE PRESENT IN SUBGRADE. ASBESTOS SHALL BE RESPONDED TO AS A WHS INCIDENT AND REMOVED BY A LICENSED SUB-CONTRACTOR.

AMENDMENTS			Scale	Design Agent	Client	Project	Drawing Title				
AMENDMENT	APPROVAL	DATE					NOTES AND LEGEND				
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS				<p>R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph: 62 4201 4918</p>	<p>ACT Government</p>	Project Officer: Kencho Choden Project Number: 30490	DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS MONARO HWY - SITE 4	Date	Dwg. No.	Sheet	Revision
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21	30/08/21					RG 20110	RN0401	0	
For tendering purposes only: --/--/--			Issued for construction: --/--/--					W.A.E.: --/--/--			



LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04.

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm.

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WCLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRE LINES 8-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE.

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.2 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

ALL LINES TO BE ERADICATED SHALL BE REMOVED BY GRIT, SHOT OR WATER BLASTING OR OTHER APPROVED METHOD. BLACKING OUT OF LINES WITH DEGADUR OR OTHER COATINGS IS NOT PERMISSIBLE. THE CONTRACTOR SHALL REMOVE/PREPARE INCOMPATIBLE OR LOOSE AND FLAKING PAVEMENT MARKING MATERIALS PRIOR TO APPLICATION OF NEW PAVEMENT MARKINGS.

EXISTING RPPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RPPM'S ON ALL LINETYPES.

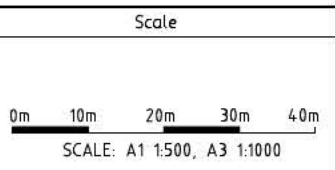
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT	DRAWING NAME	AUTHORIZING SIGNATURE
NAME:	DELIVERING ANRAM	DATE:
SIGNATURE:	MONARO HWY	DEPARTMENT NUMBER
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
SIGNS TO BE REMOVED			

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 02 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

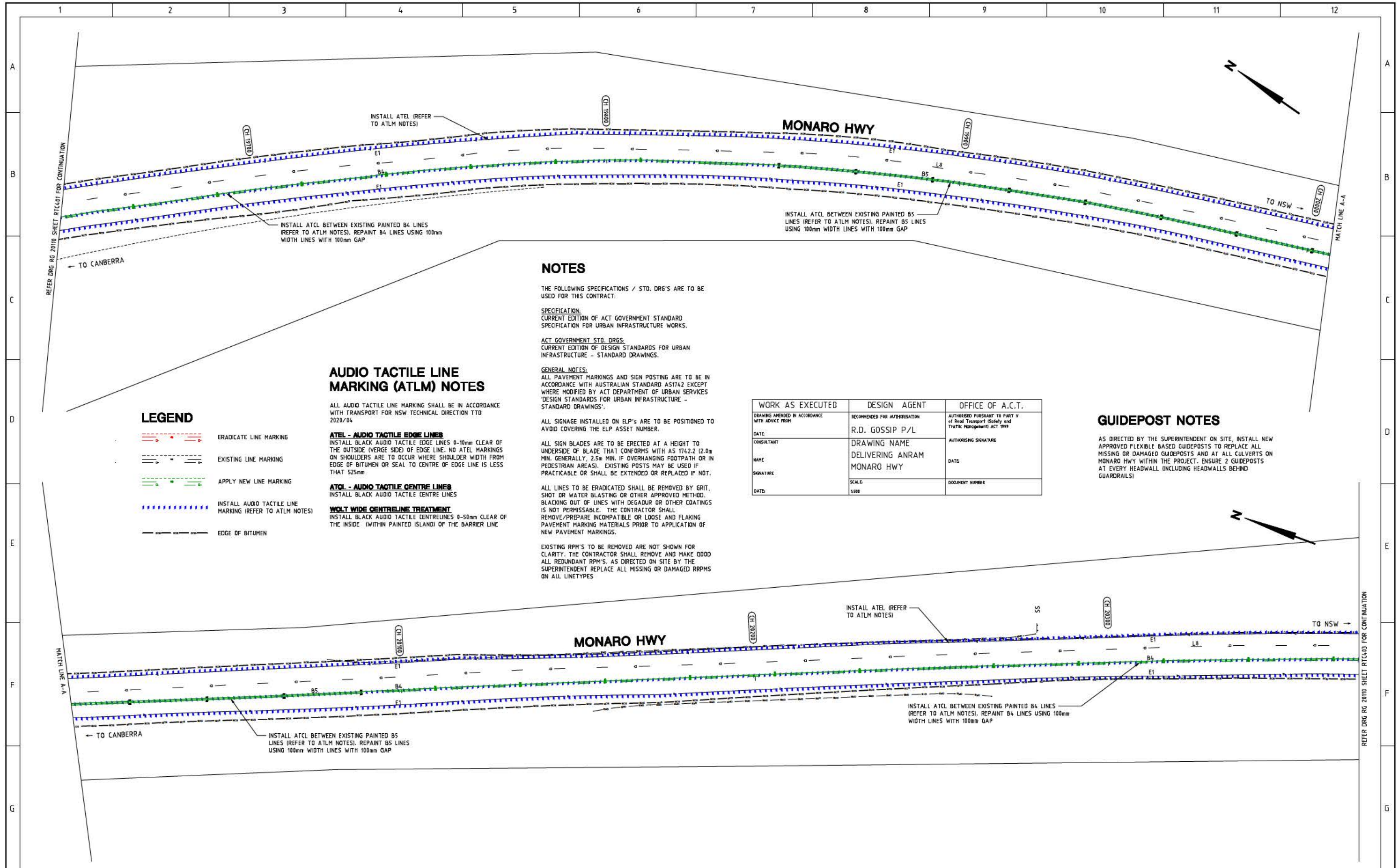
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 1 OF 23

Drg. No. RG 20110
Sheet RTC401
Revision 0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

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CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

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AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WOLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

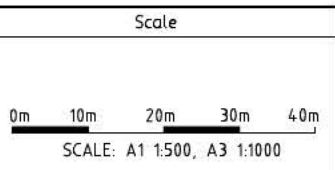
GUIDEPOST NOTES

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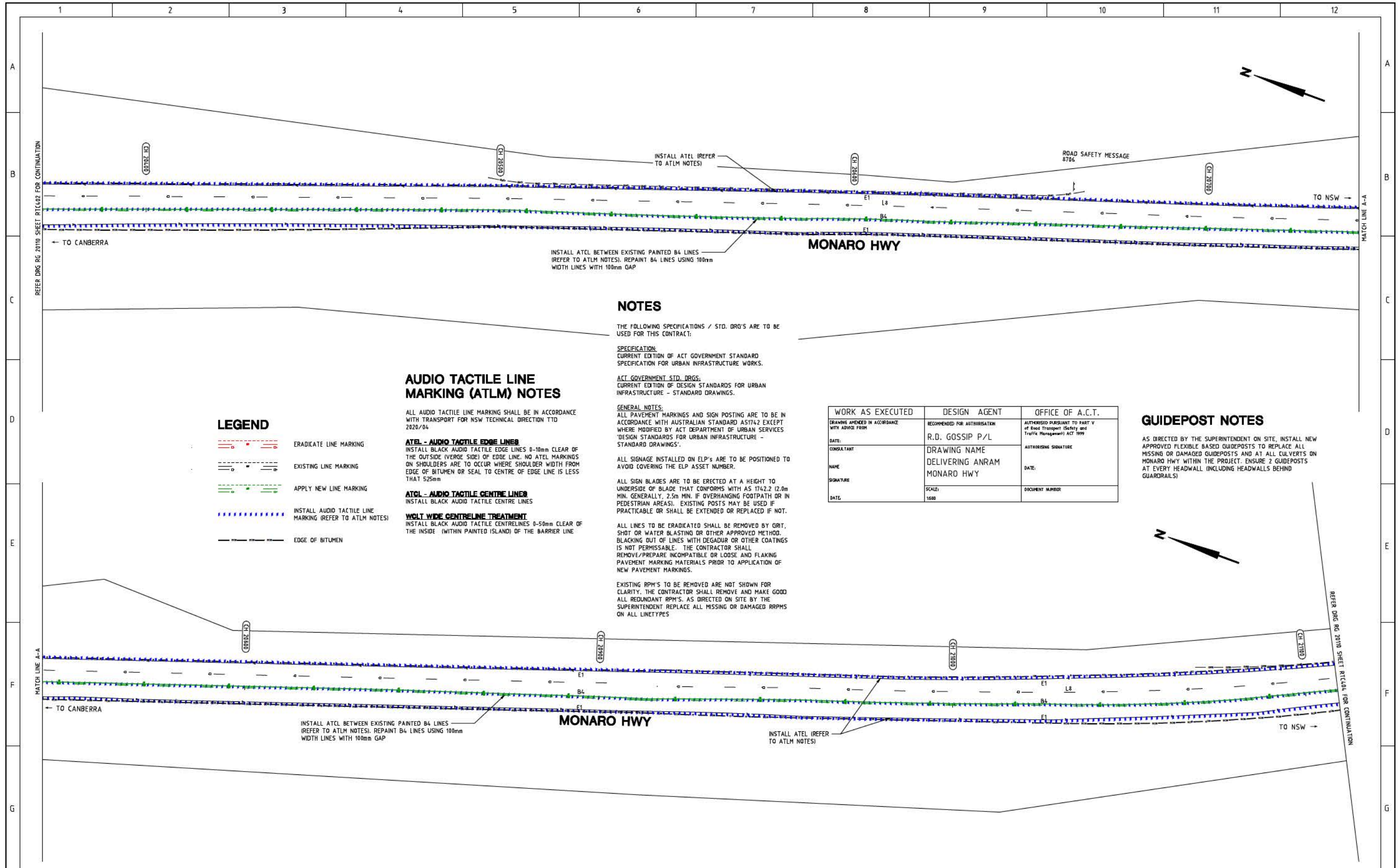
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION:	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT:	DRAWING NAME:	AUTHORISING SIGNATURE:
NAME:	DELIVERING ANRAM	DATE:
SIGNATURE:	MONARO HWY	DOCUMENT NUMBER:
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE				AMENDMENTS		
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL	DATE
SIGNS TO BE ERECTED						
SIGNS TO BE REMOVED						

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



 R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph: 02 4201 4010	Designed by	 ACT Government	Client	Project Officer: Kencho Choden Project Number: 30490	DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS MONARO HWY - SITE 4	TRAFFIC CONTROL DEVICE PLAN - SHEET 2 OF 23
	Drawn by		Project			
	Checked by		Date			
	Approved by		Drg. No.			
			30/08/21	RG 20110	Sheet	Revision
					RTC402	0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
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AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WGLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

LEGEND

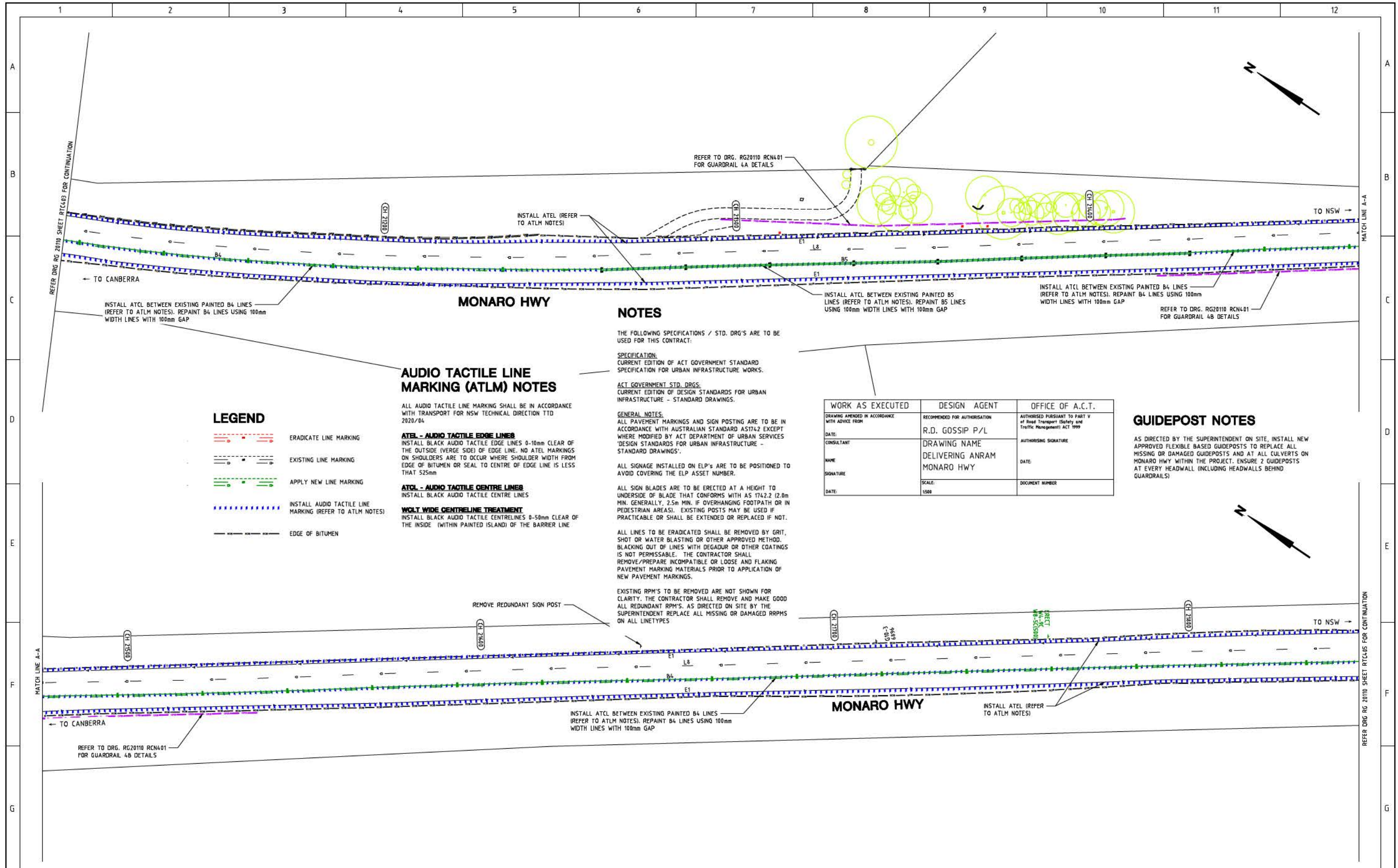
- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER:
SIGNATURE	MONARO HWY	
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDANT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

SIGN SCHEDULE				AMENDMENTS			Scale	Design Agent	Client	Project	Drawing Title	
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL	DATE						
SIGNS TO BE ERECTED	-	-	-				 SCALE: A1 1:500, A3 1:1000	 R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph. 02 4291 4318	 ACT Government	Project Officer: Kencho Choden Project Number: 30490	DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS MONARO HWY - SITE 4	TRAFFIC CONTROL DEVICE PLAN - SHEET 3 OF 23
SIGNS TO BE REMOVED	-	-	-									
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS												
Conceptual Sketch: 02/03/21				Final Sketch Plan: --/--/--		Final Design: 30/08/21						
For tendering purposes only: --/--/--				Issued for construction: --/--/--		W.A.E.: --/--/--						



LEGEND

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ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WOLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRE LINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
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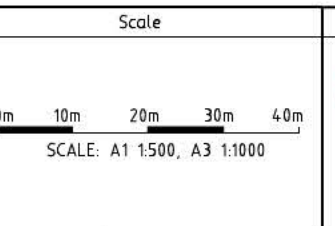
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT	DRAWING NAME	AUTHORISING SIGNATURE
NAME	DELIVERING ANRAM	DATE:
SIGNATURE	MONARO HWY	DOCUMENT NUMBER
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
W4-9 LEFT LANE ENDS	-	C	1
W8-5 DISTANCE (500m)	-	C	1
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS			
AMENDMENT	APPROVAL	DATE	



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 62 4201 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

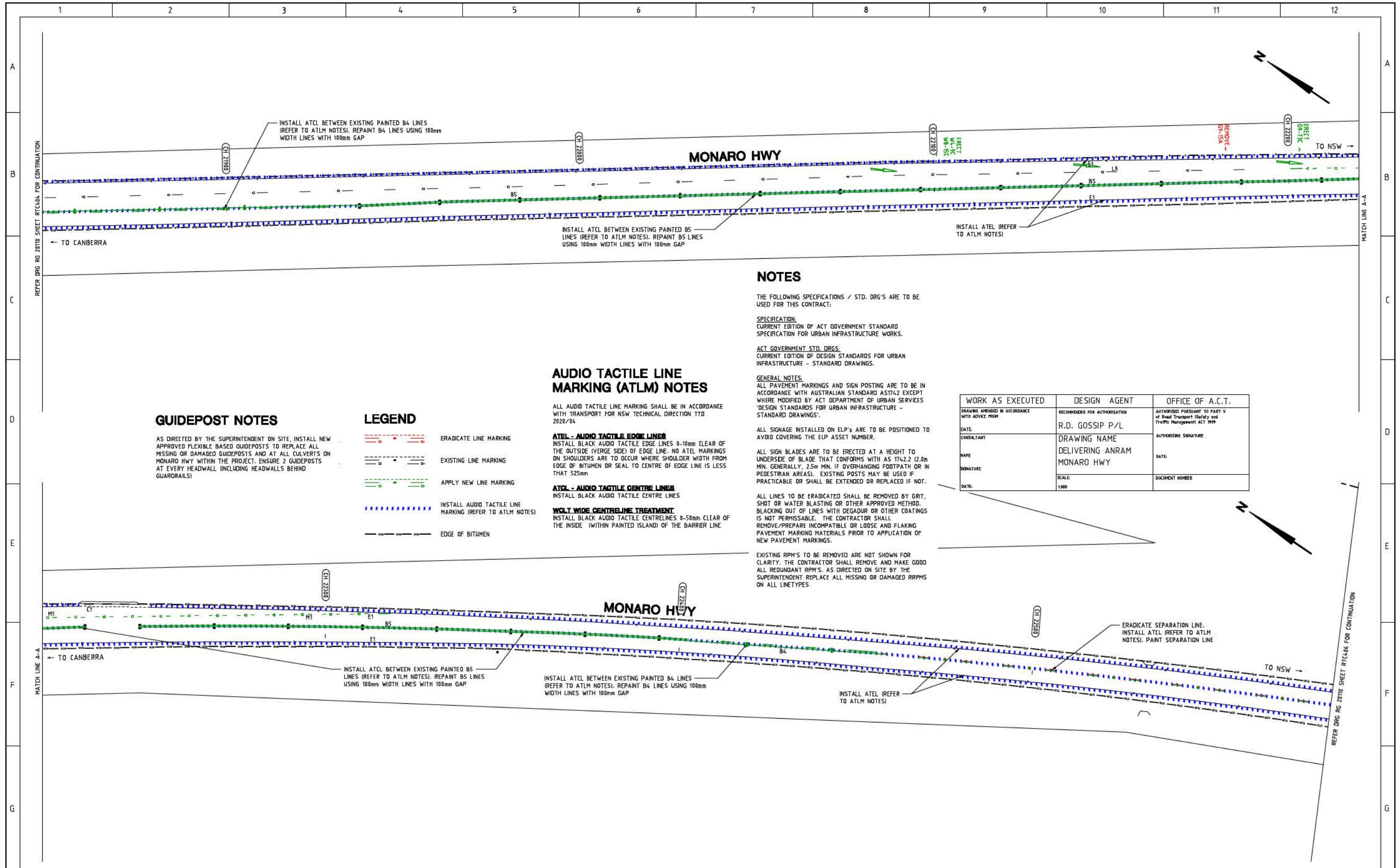
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 4 OF 23

Drg. No. RG 20110
Sheet RTC404
Revision 0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
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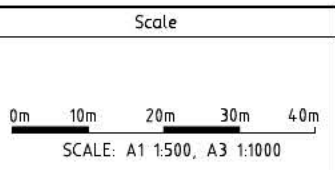
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORSING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
W4-9 LEFT LANE ENDS	-	C	1
W4-15 MERGE RIGHT	-	C	1
G9-73 MERGE RIGHT	-	C	1
SIGNS TO BE REMOVED			
G9-15 FORM 1 LANE	-	A	1

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 02 4201 4318

Designed by:

Drawn by:

Checked by:

Approved by:

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

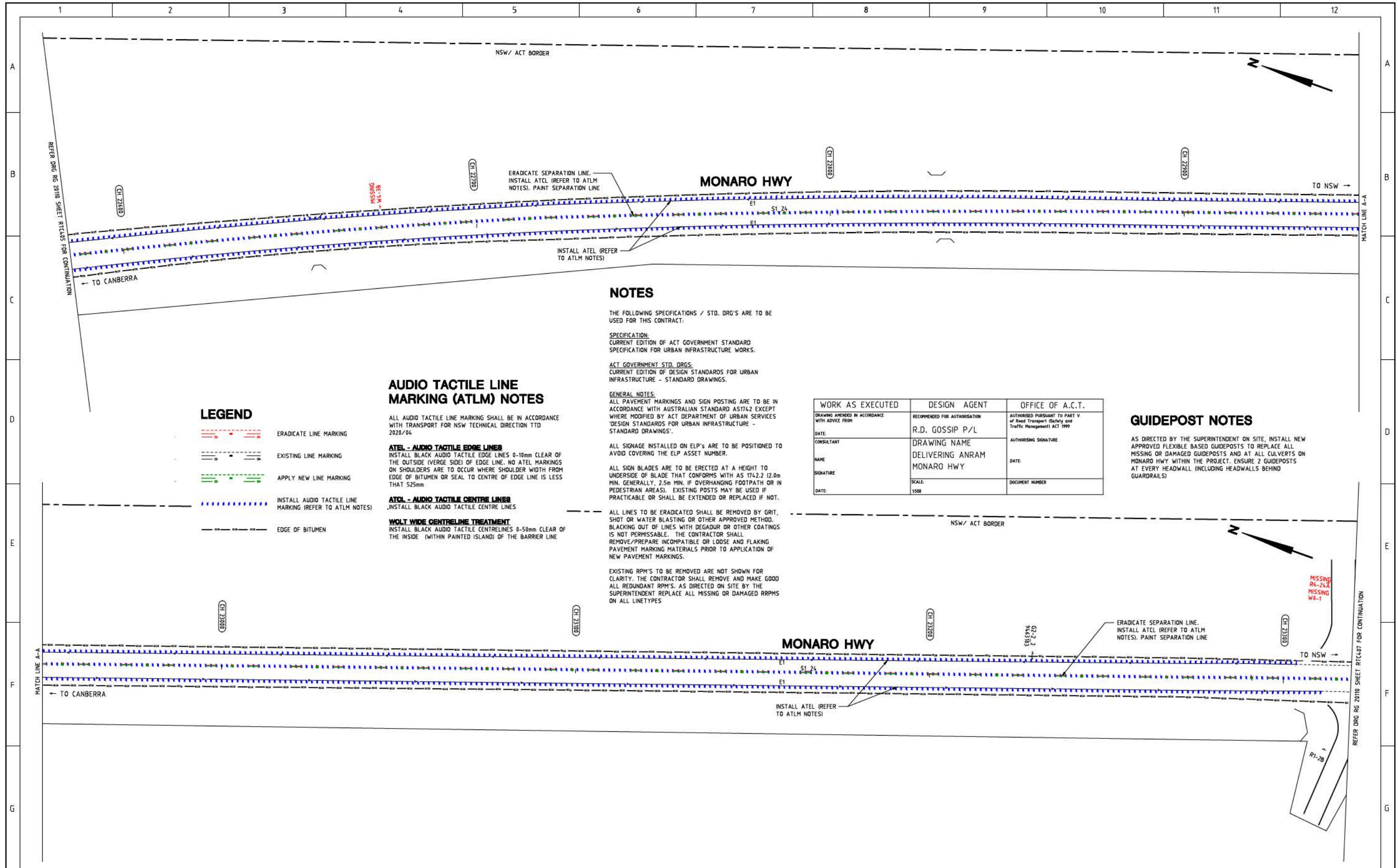
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 5 OF 23

Drg. No. **RG 20110** Sheet **RTC405** Revision **0**



LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WOLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

ALL LINES TO BE ERADICATED SHALL BE REMOVED BY GRIT, SHOT OR WATER BLASTING OR OTHER APPROVED METHOD. BLACKING OUT OF LINES WITH DEGADUR OR OTHER COATINGS IS NOT PERMISSABLE. THE CONTRACTOR SHALL REMOVE/PREPARE INCOMPATIBLE OR LOOSE AND FLAKING PAVEMENT MARKING MATERIALS PRIOR TO APPLICATION OF NEW PAVEMENT MARKINGS.

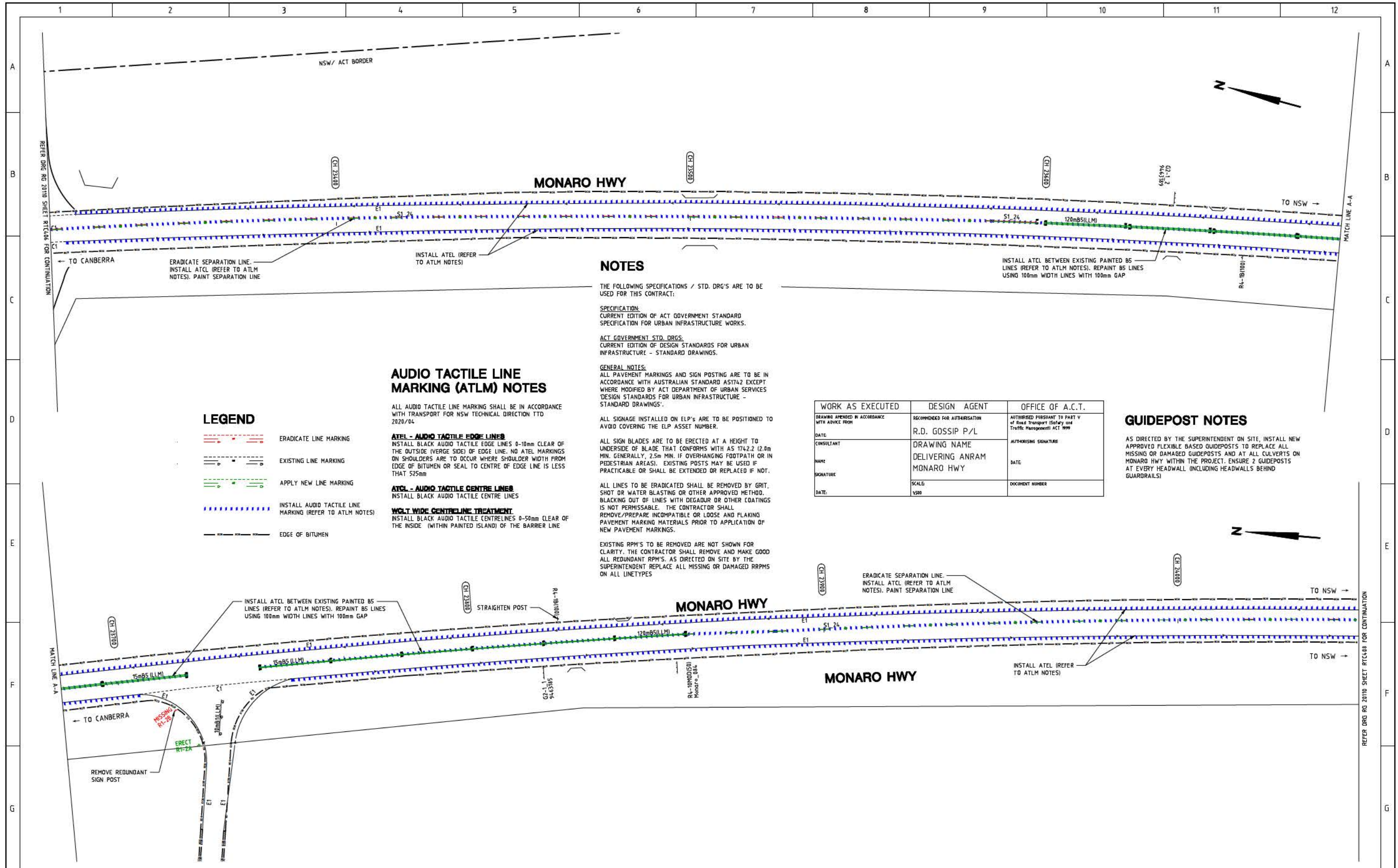
EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RPPMS ON ALL LINETYPES

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME:	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE:	MONARO HWY	
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

SIGN SCHEDULE				AMENDMENTS				Scale		Design Agent		Client		Project		Drawing Title	
DESCRIPTION				AMENDMENT				0m 10m 20m 30m 40m		R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Canberra ACT 2602 Ph: 02 4291 4318		Project Officer: Kencho Choden Project Number: 30490		DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS MONARO HWY - SITE 4		TRAFFIC CONTROL DEVICE PLAN - SHEET 6 OF 23	
SIGN TO BE ERECTED				APPROVAL				SCALE: A1 1:500, A3 1:1000		Checked by		ACT Government		Date: 30/08/21		Drg. No. RG 20110	
SIGN TO BE REMOVED				DATE						Approved by				Sheet RTC406		Revision 0	
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS																	
Conceptual Sketch: 02/03/21				Final Sketch Plan: --/--/--													
For tendering purposes only: --/--/--				Issued for construction: --/--/--													
Final Design: 30/08/21				W.A.E.: --/--/--													



NOTES

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SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

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AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 8-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATCL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WGLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

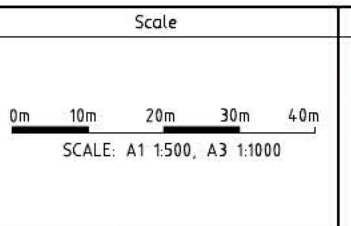
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORIZING SIGNATURE
CONSULTANT	DRAWING NAME	DATE
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE:	SCALE	
	1:500	

GUIDEPOST NOTES

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SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
R1-2 GIVE WAY	-	A	1
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 62 4201 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

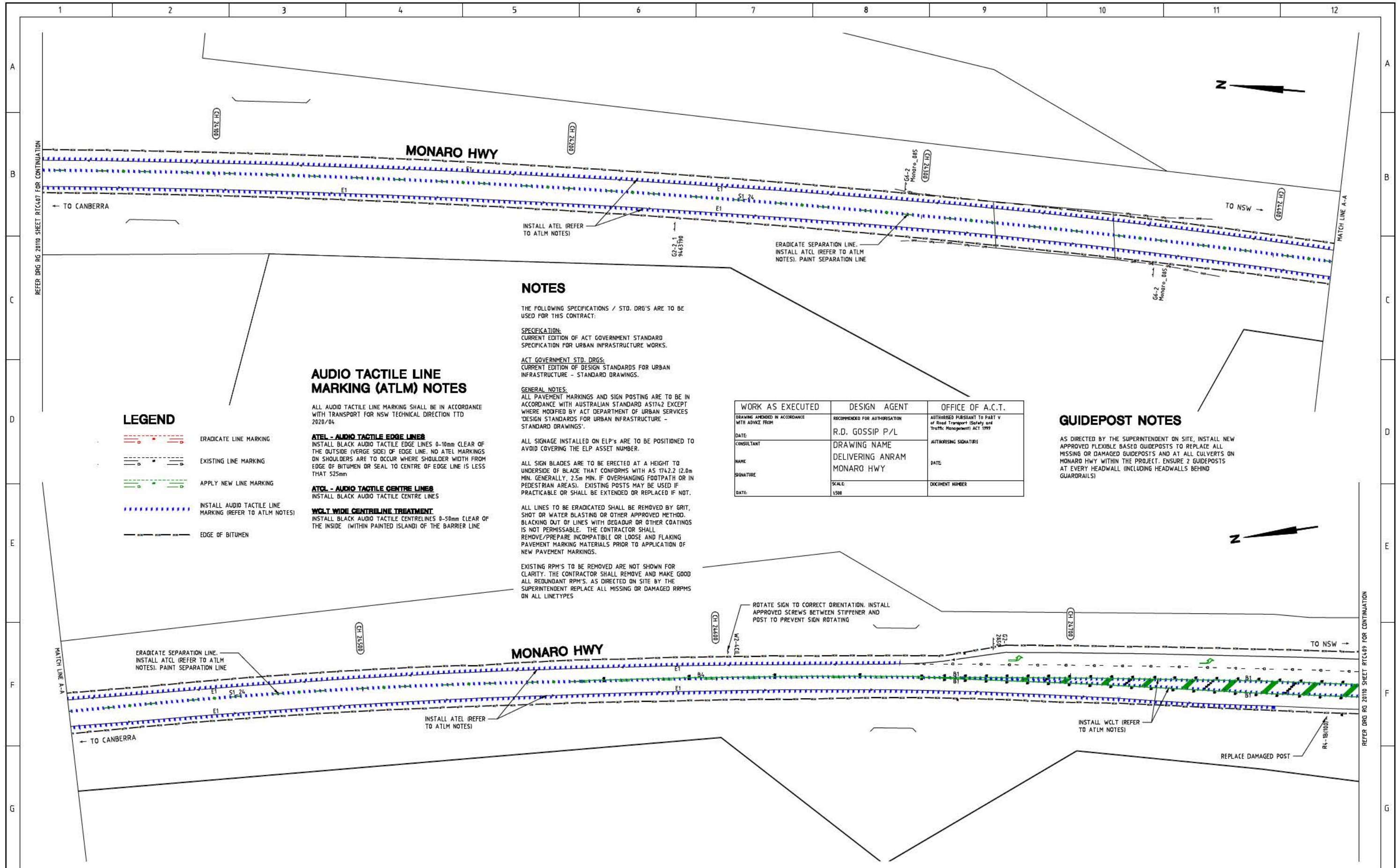
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 7 OF 23

Drg. No.	Sheet	Revision
RG 20110	RTC407	0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

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ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm.

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WCLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

GUIDEPOST NOTES

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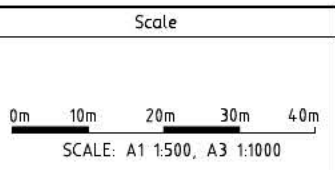
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE	SCALE: 1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
SIGNS TO BE REMOVED			

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Canberra ACT 2602
Ph: 62 4201 4318

Designed by
Drawn by
Checked by
Approved by

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

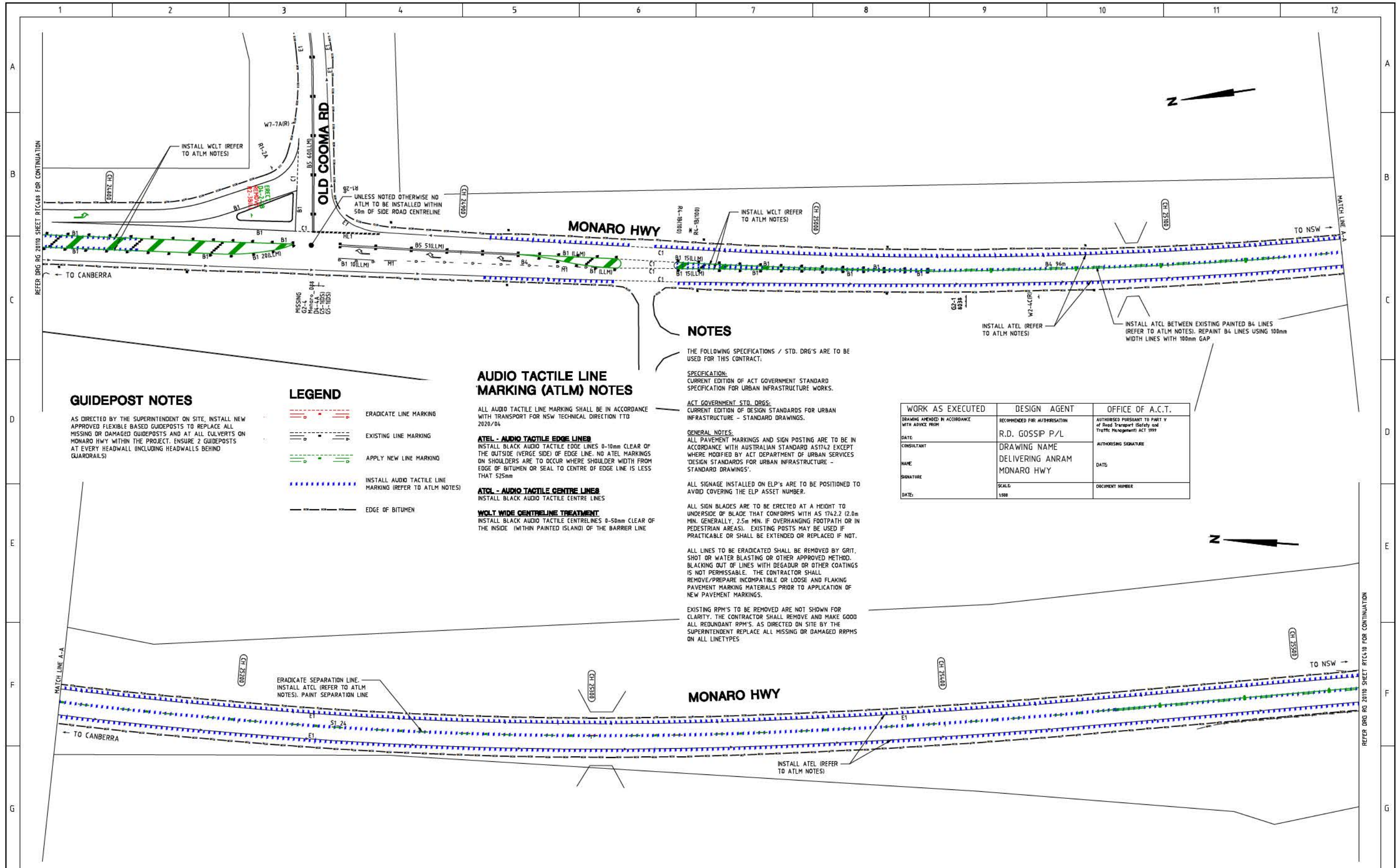
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 8 OF 23

Drg. No. RG 20110
Sheet RTC408
Revision 0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL INCLUDING HEADWALLS BEHIND GUARDRAILS

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

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ATCL - AUDIO TACTILE CENTRE LINES

INSTALL BLACK AUDIO TACTILE CENTRE LINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

WLT WIDE CENTRELINE TREATMENT

INSTALL BLACK AUDIO TACTILE CENTRE LINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRG'S:
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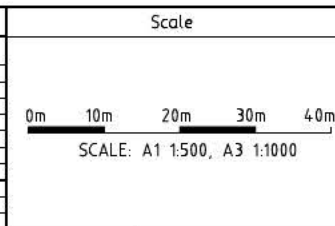
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE	SCALE	
	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
DL-2-2		B	1
SIGNS TO BE REMOVED			
R2-3		L	1

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 62 4201 4318

Client

ACT Government

Project

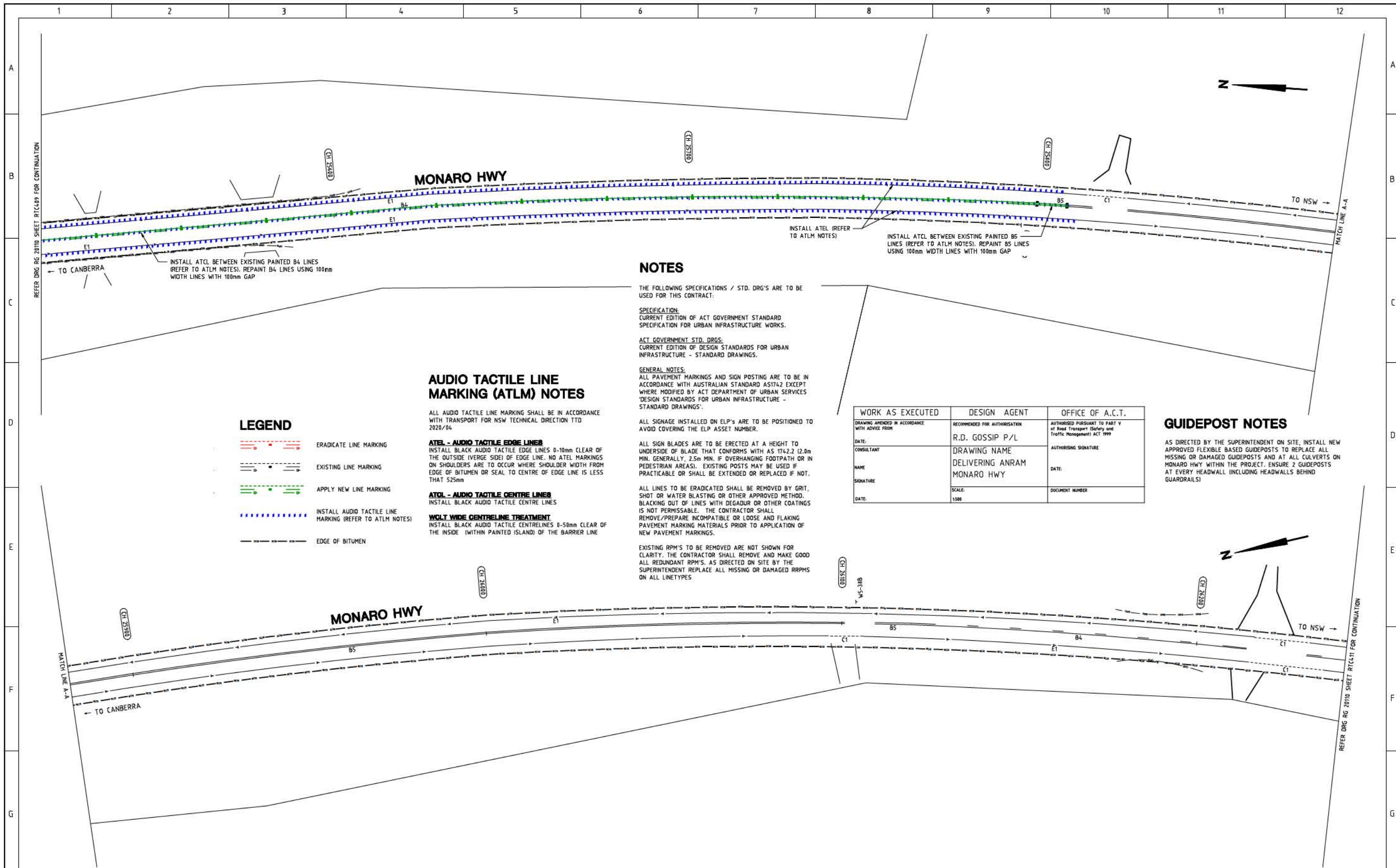
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 9 OF 23

Drg. No. RG 20110
Sheet RTC409
Revision 0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

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ATCL - AUDIO TACTILE CENTRE LINES
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WGLT WIDE CENTRELINE TREATMENT
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LEGEND

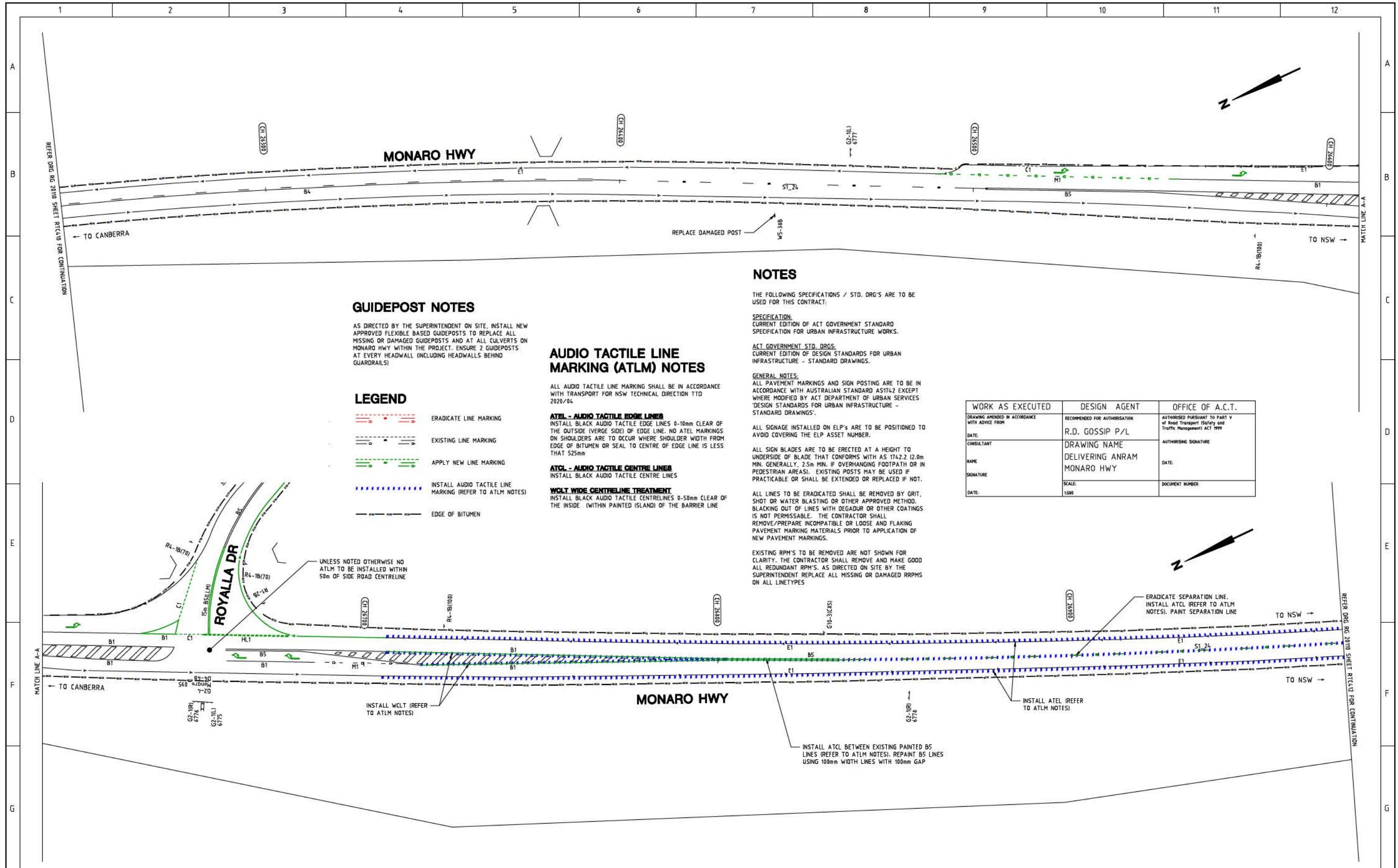
- ERADICATE LINE MARKING
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART IV of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

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SIGN SCHEDULE				AMENDMENTS				Scale		Design Agent		Client		Project		Drawing Title	
DESCRIPTION				AMENDMENT				0m 10m 20m 30m 40m		R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph: 02 4281 4318		Project Officer: Kencho Choden Project Number: 30490		DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS MONARO HWY - SITE 4		TRAFFIC CONTROL DEVICE PLAN - SHEET 10 OF 23	
SIGN TO BE ERECTED				APPROVAL				SCALE: A1 1:500, A3 1:1000		Designed by		ACT Government		Date		Drg. No.	
SIGN TO BE REMOVED				DATE						Checked by		30/08/21		RG 20110		Sheet	
				DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS						Approved by				RTC410		Revision	
				Conceptual Sketch: 02/03/21										0			
				For tendering purposes only: --/--/--													
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ATEL - AUDIO TACTILE EDGE LINES
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ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WCLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

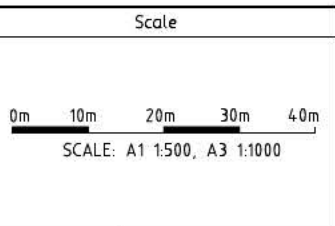
ALL LINES TO BE ERADICATED SHALL BE REMOVED BY GRIT, SHOT OR WATER BLASTING OR OTHER APPROVED METHOD. BLACKING OUT OF LINES WITH DEGADUR OR OTHER COATINGS IS NOT PERMISSIBLE. THE CONTRACTOR SHALL REMOVE/PREPARE INCOMPATIBLE OR LOOSE AND FLAKING PAVEMENT MARKING MATERIALS PRIOR TO APPLICATION OF NEW PAVEMENT MARKINGS.

EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S, AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RRPM'S ON ALL LINETYPES

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
SIGNS TO BE REMOVED			

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 62 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

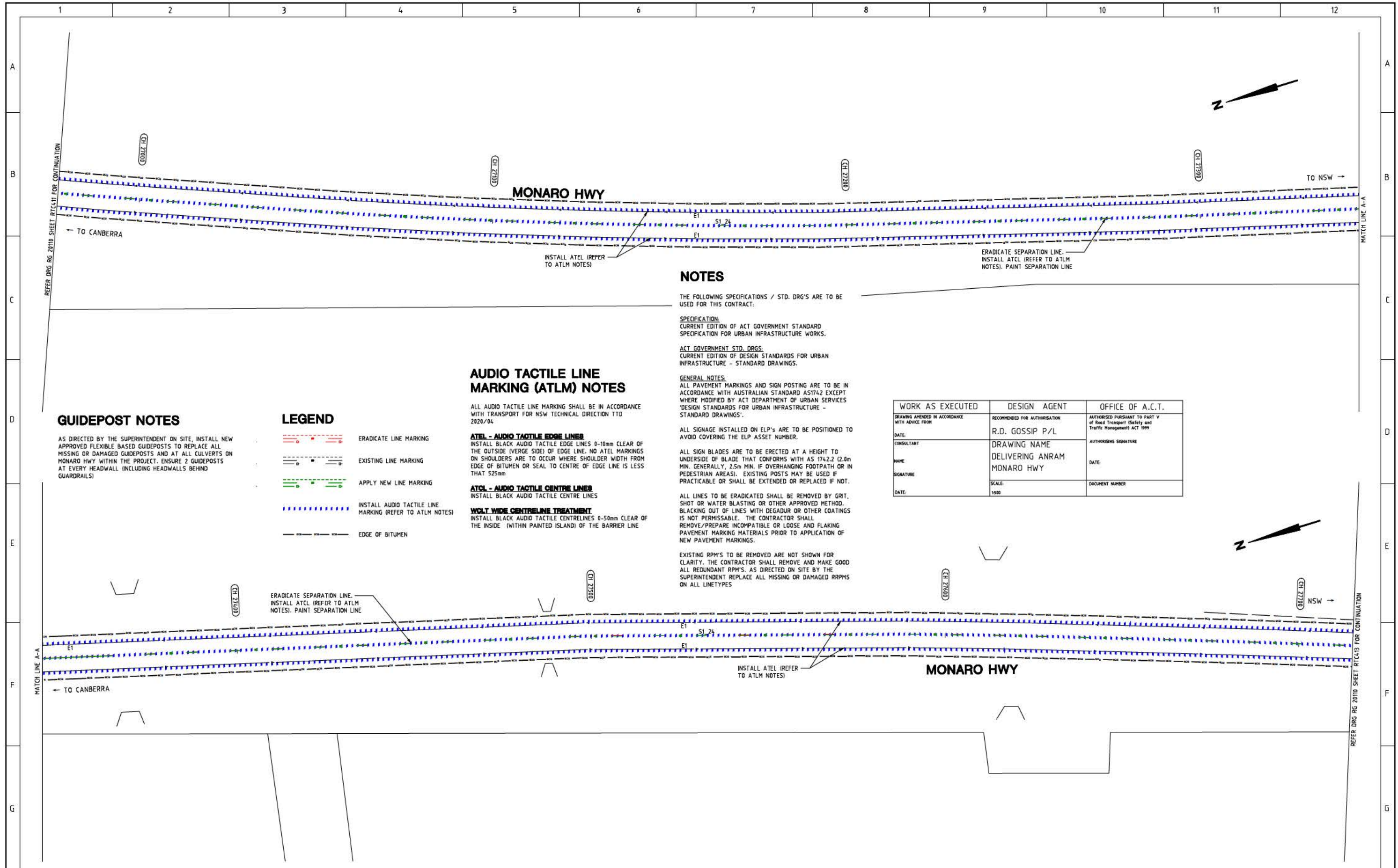
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 11 OF 23

Drg. No. RG 20110
Sheet RTC411
Revision 0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WOLY WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

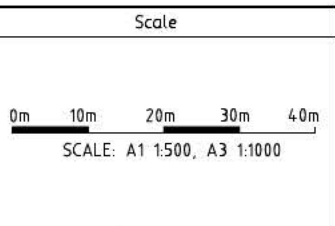
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EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RPM'S ON ALL LINETYPES

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM: DATE: CONSULTANT: NAME: SIGNATURE: DATE:	RECOMMENDED FOR AUTHORISATION R.D. GOSSIP P/L DRAWING NAME DELIVERING ANRAM MONARO HWY SCALE: 1:500	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999 AUTHORISING SIGNATURE: DATE: DOCUMENT NUMBER:

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
SIGNS TO BE REMOVED			

AMENDMENTS			
AMENDMENT	APPROVAL	DATE	



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 62 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

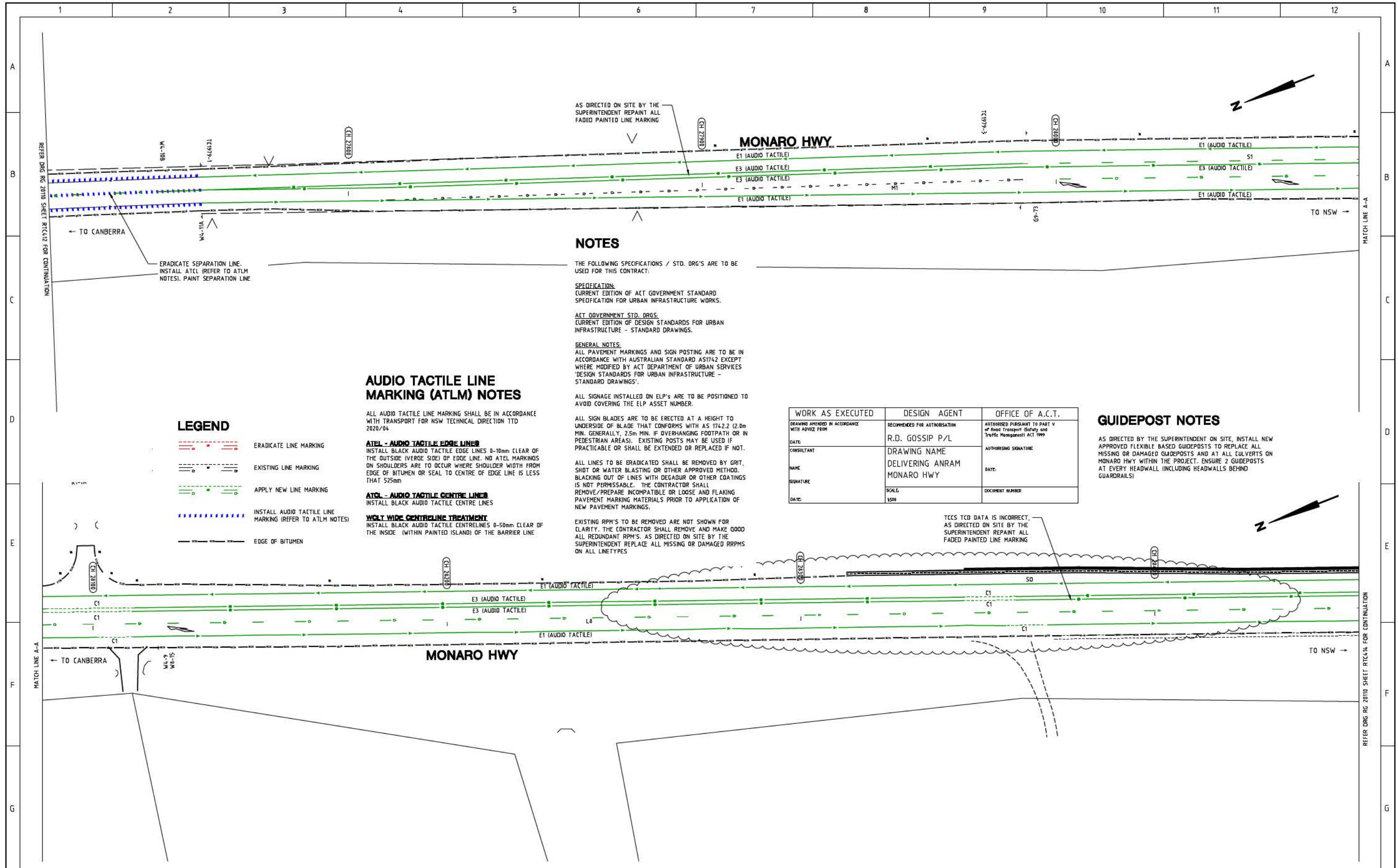
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 12 OF 23

Drg. No. RG 20110
Sheet RTC412
Revision 0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.8m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

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EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RRRPM'S ON ALL LINTYPES

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04.

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm.

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WWT - WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

LEGEND

	ERADICATE LINE MARKING
	EXISTING LINE MARKING
	APPLY NEW LINE MARKING
	INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
	EDGE OF BITUMEN

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION:	AUTHORIZED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE:
CONSULTANT:	DRAWING NAME:	DATE:
NAME:	DELIVERING ANRAM	DOCUMENT NUMBER:
SIGNATURE:	MONARO HWY	
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

SIGN SCHEDULE

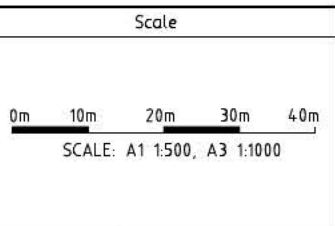
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED	-	-	-
SIGNS TO BE REMOVED	-	-	-

AMENDMENTS

AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 02 4281 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

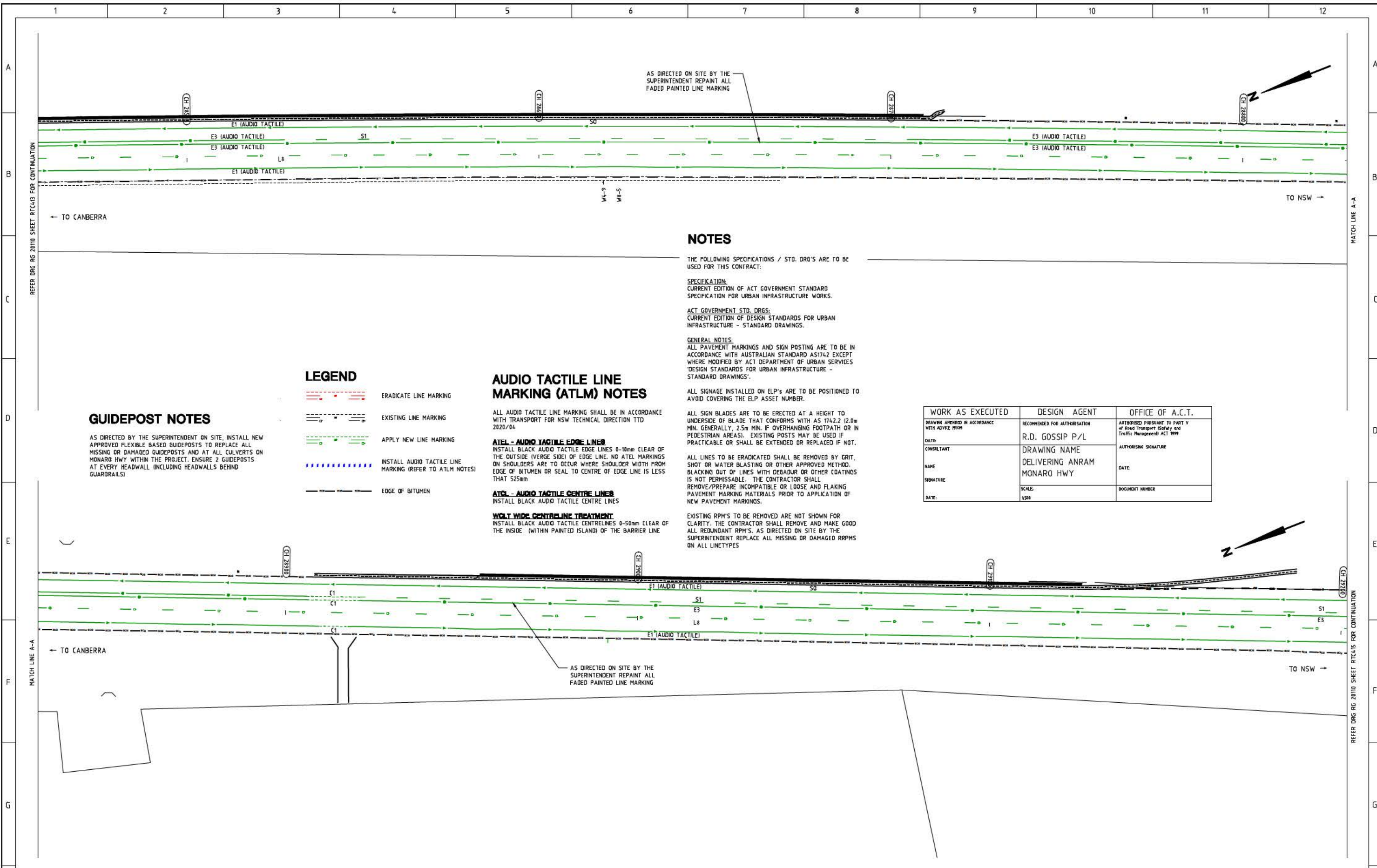
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 13 OF 23

Drg. No.	Sheet	Revision
RG 20110	RTC413	0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

	ERADICATE LINE MARKING
	EXISTING LINE MARKING
	APPLY NEW LINE MARKING
	INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
	EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm (CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WGLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRE LINES 0-50mm (CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

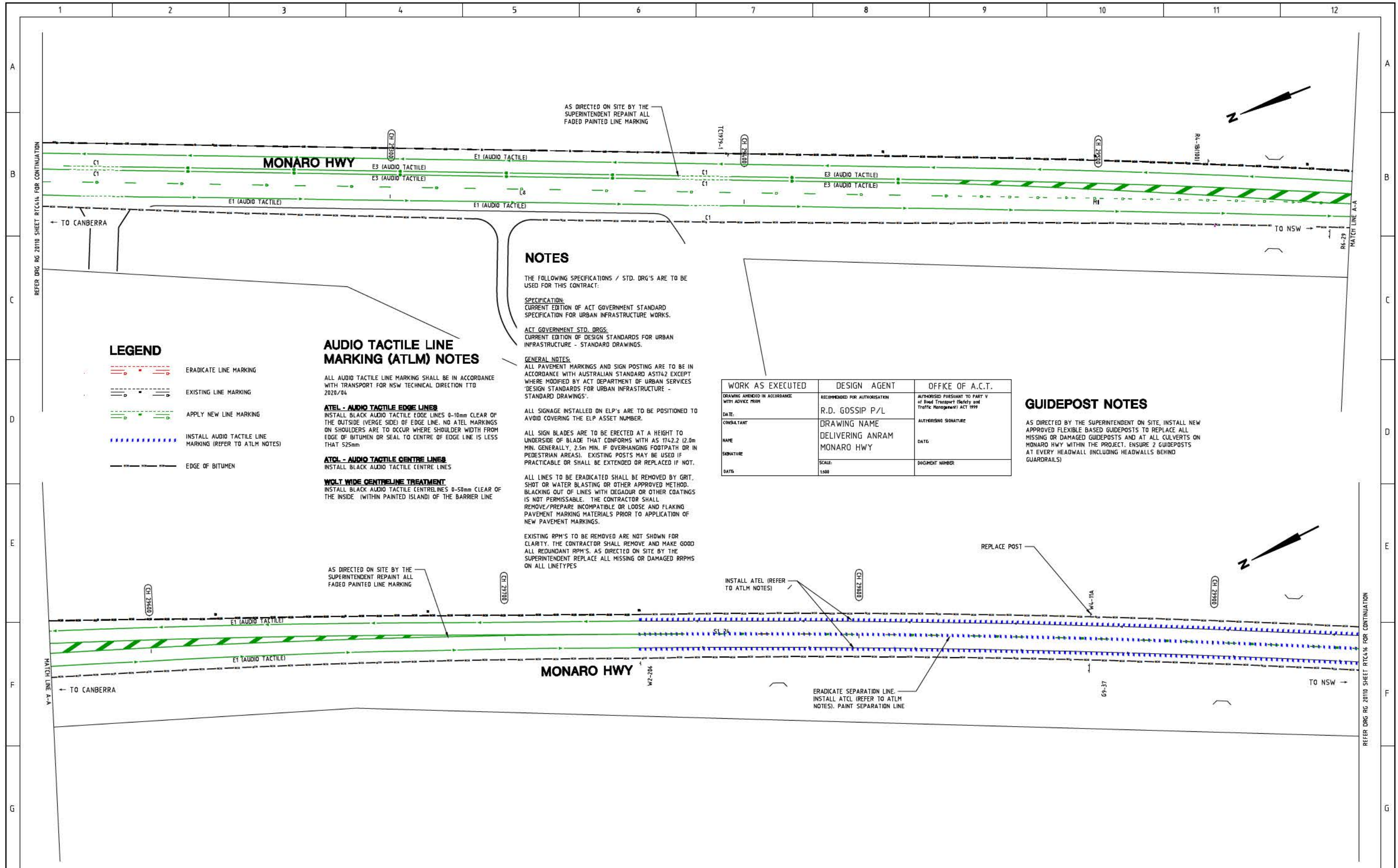
ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

ALL LINES TO BE ERADICATED SHALL BE REMOVED BY GRIT, SHOT OR WATER BLASTING OR OTHER APPROVED METHOD. BLACKING OUT OF LINES WITH DEGRADER OR OTHER COATINGS IS NOT PERMISSABLE. THE CONTRACTOR SHALL REMOVE/PREPARE INCOMPATIBLE OR LOOSE AND FLAKING PAVEMENT MARKING MATERIALS PRIOR TO APPLICATION OF NEW PAVEMENT MARKINGS.

EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RPM'S ON ALL LINETYPES

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport Safety and Traffic Management ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT:	DRAWING NAME	DATE:
NAME:	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE:	MONARO HWY	
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE				AMENDMENTS				Scale		Design Agent		Client		Project		Drawing Title	
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL	DATE	0m 10m 20m 30m 40m SCALE: A1 1:500, A3 1:1000		 R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph. 02 4291 4318		 Project Officer: Kencho Choden Project Number: 30490		DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS MONARO HWY - SITE 4		TRAFFIC CONTROL DEVICE PLAN - SHEET 14 OF 23		
SIGN SCHEDULE TABLE				AMENDMENTS TABLE				DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		Designed by Drawn by Checked by Approved by		Date: 30/08/21		Drg. No. RG 20110 Sheet RTC414 Revision 0			
SIGN SCHEDULE TABLE				AMENDMENTS TABLE				Conceptual Sketch: 02/03/21 Final Sketch Plan: --/--/-- For tendering purposes only: --/--/--		Final Design: 30/08/21 W.A.E.: --/--/--							



LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATEL - AUDIO TACTILE EDGE LINES
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ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WOLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRE LINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
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GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

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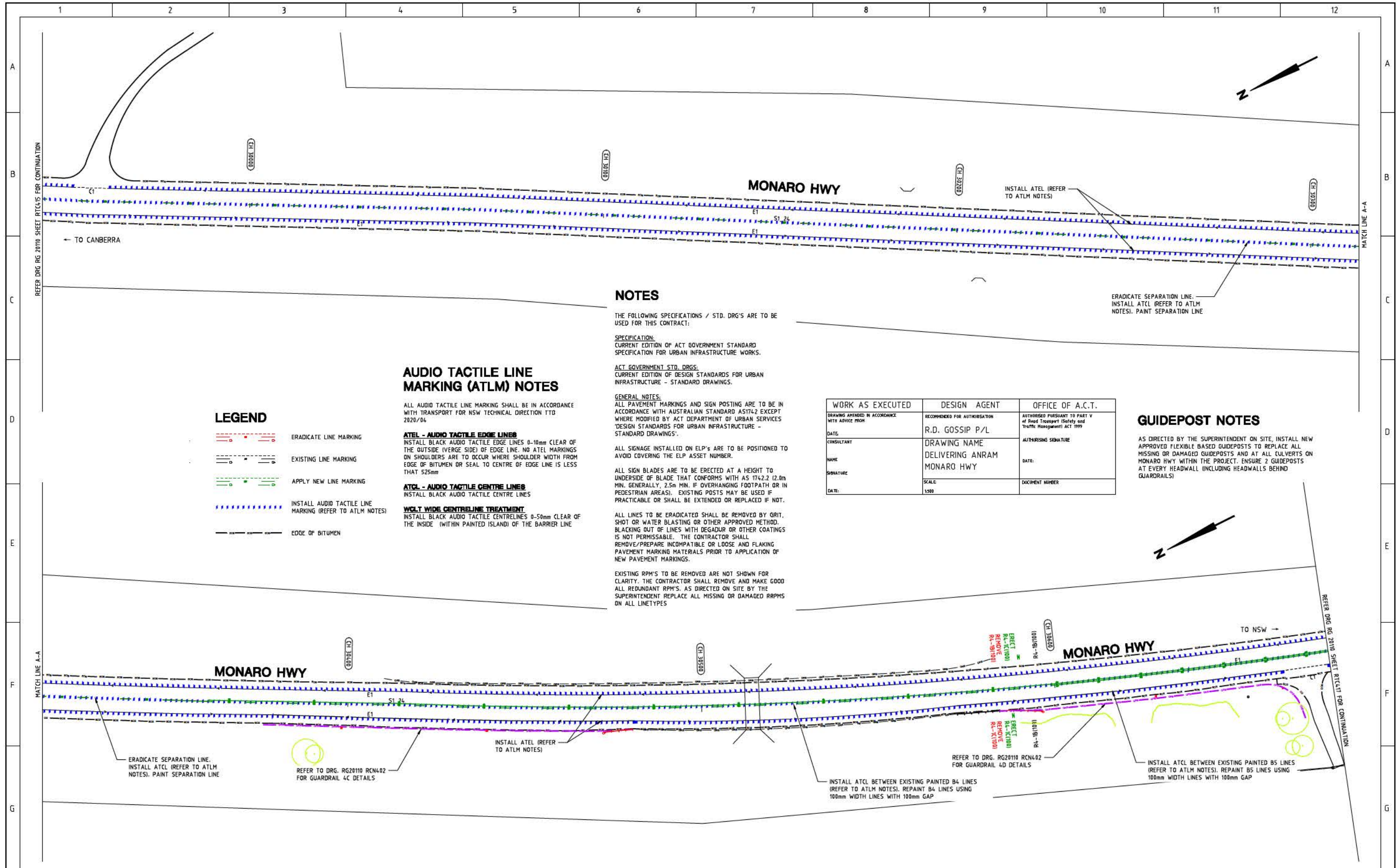
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PRESIDENT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

SIGN SCHEDULE				AMENDMENTS			Scale	Design Agent	Client	Project	Drawing Title	
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL	DATE						
SIGNS TO BE ERECTED	-	-	-				 SCALE: A1 1:500, A3 1:1000	 R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph: 02 4281 4318	 ACT Government	Project Officer: Kencho Choden Project Number: 30490	DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS MONARO HWY - SITE 4	TRAFFIC CONTROL DEVICE PLAN - SHEET 15 OF 23
SIGNS TO BE REMOVED	-	-	-									
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS												
Conceptual Sketch: 02/03/21				Final Sketch Plan: --/--/--		Final Design: 30/08/21						
For tendering purposes only: --/--/--				Issued for construction: --/--/--		W.A.E.: --/--/--						



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
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AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2820/04

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WGLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL INCLUDING HEADWALLS BEHIND GUARDRAILS

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) Act 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE:	SCALE	
	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
R4-1 SPEED RESTRICTION (100)	-	C	2
SIGNS TO BE REMOVED			
R4-1 SPEED RESTRICTION (100)	-	B,C	1,1

AMENDMENTS			
AMENDMENT	APPROVAL	DATE	

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21 Final Sketch Plan: --/--/-- Final Design: 30/08/21

For tendering purposes only: --/--/-- Issued for construction: --/--/-- W.A.E.: --/--/--

Scale

0m 10m 20m 30m 40m

SCALE: A1 1:500, A3 1:1000

Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Canberra ACT 2602
Ph: 62 4201 4310

Client

ACT Government

Project

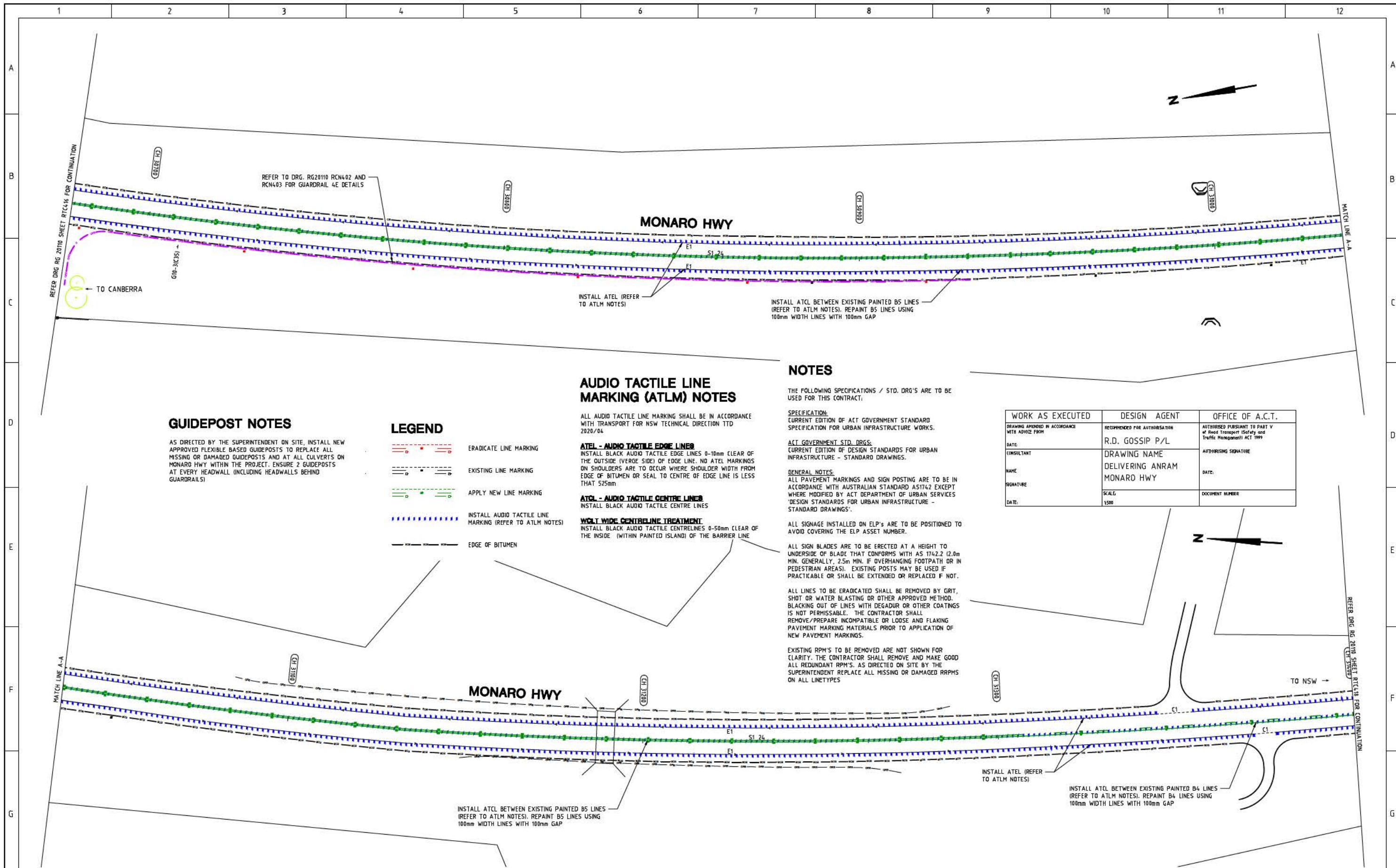
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 16 OF 23

Drg. No. RG 20110 Sheet RTC416 Revision 0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2920/04

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm (CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WOLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRELINES 0-50mm (CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
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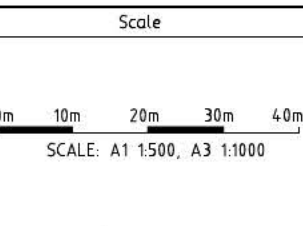
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DELIVERING NAME	DATE:
NAME	MONARO HWY	DOCUMENT NUMBER
SIGNATURE	SCALE	
DATE:	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
SIGNS TO BE REMOVED			

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Pivon Street
Campbell ACT 2602
Ph: 62 4291 4918

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

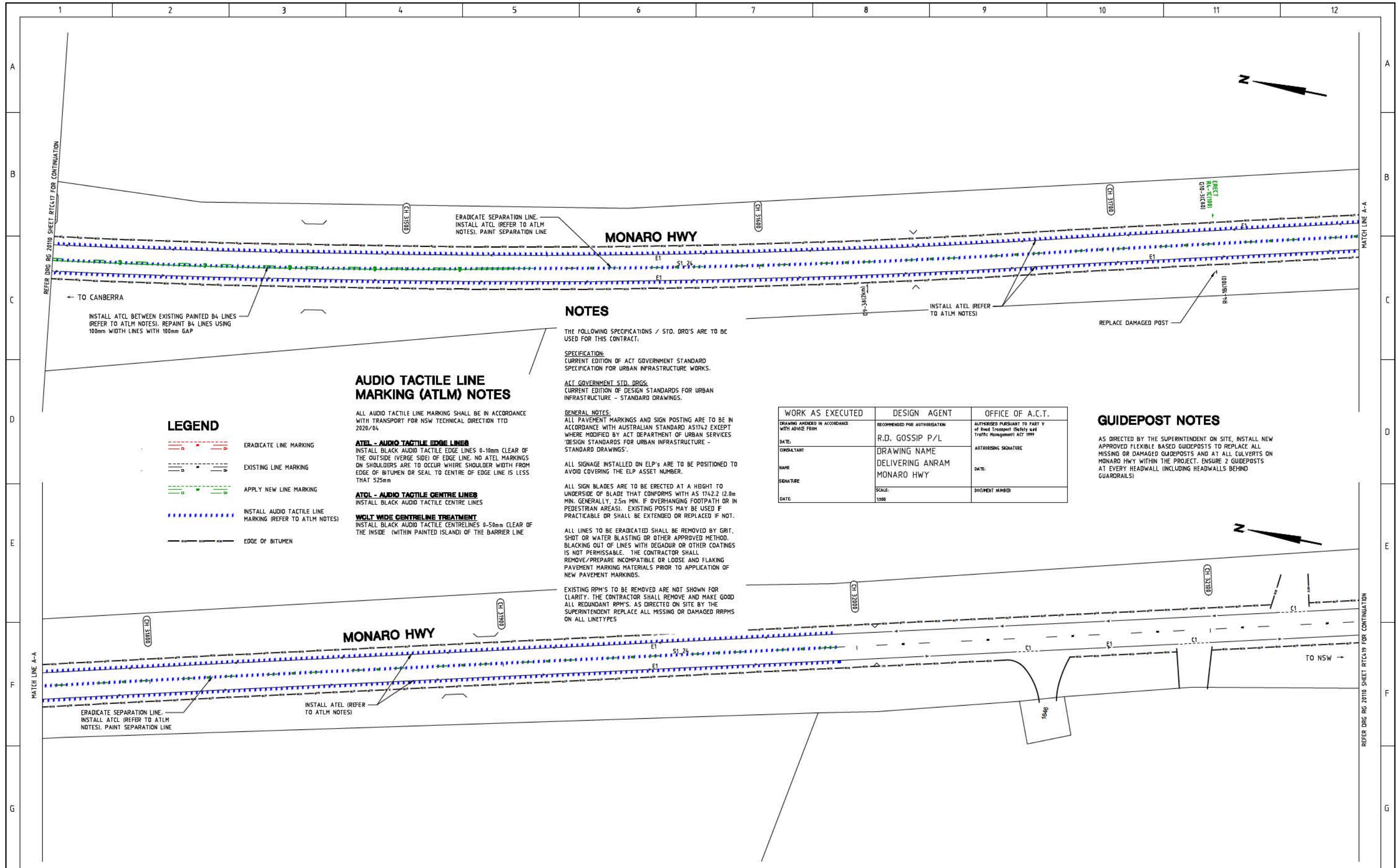
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 17 OF 23

Drg. No. RG 20110
Sheet RTC417
Revision 0



LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

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ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WGLT WIDE CENTRELINE TREATMENT
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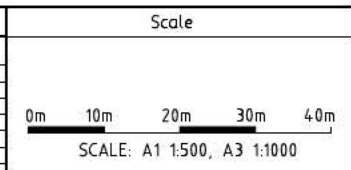
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

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SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERRECTED			
RA-1 SPEED RESTRICTION (100)	-	C	1
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

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Ph: 02 4201 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

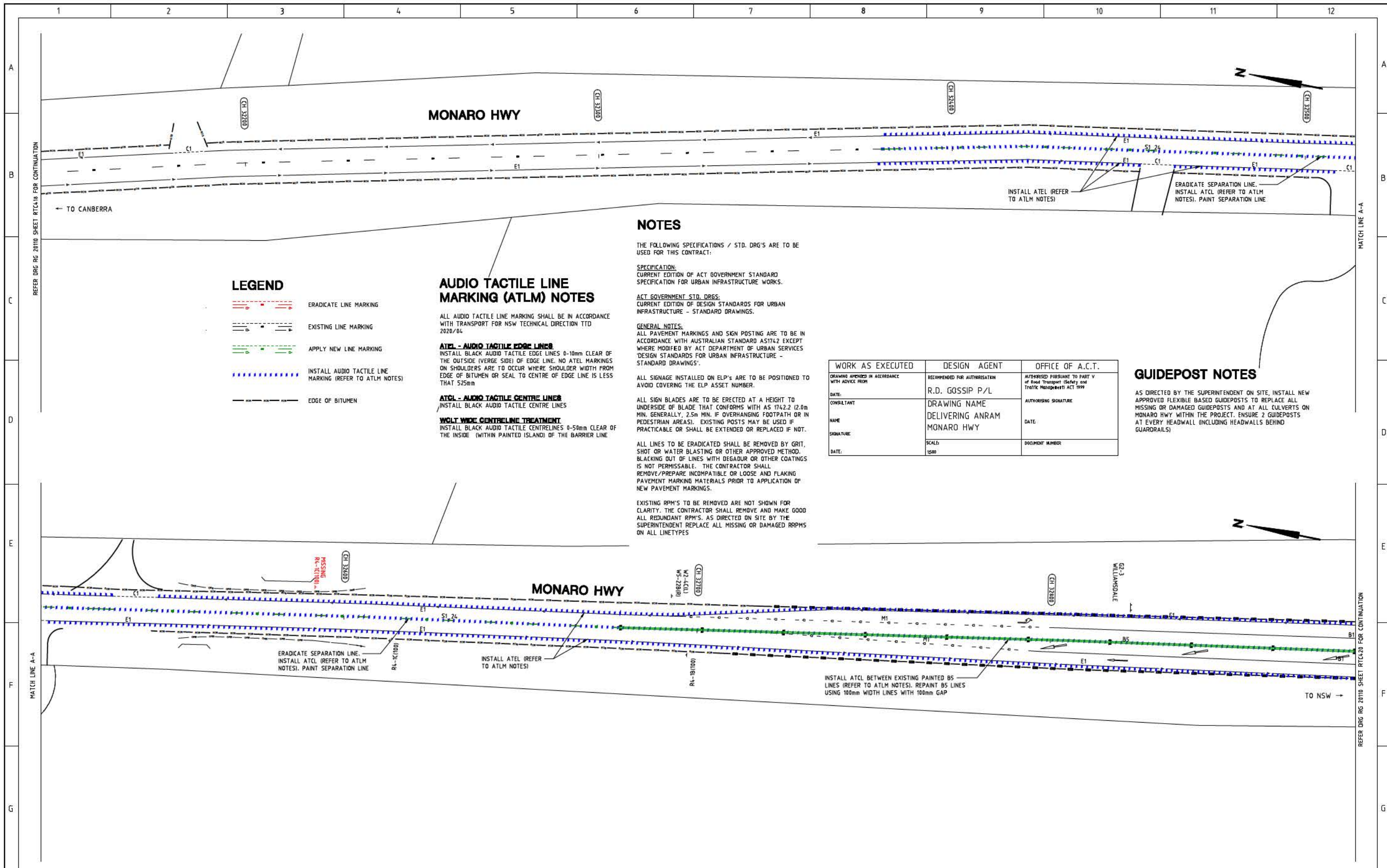
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 18 OF 23

Drg. No. **RG 20110** Sheet **RTC418** Revision **0**



LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

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NOTES

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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORIZING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	MONARO HWY	
DATE:	SCALE	
	1:500	

GUIDEPOST NOTES

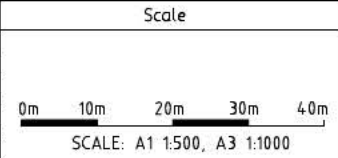
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SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
SIGNS TO BE REMOVED			

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 602 4201 4010

Designed by
Drawn by
Checked by
Approved by

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

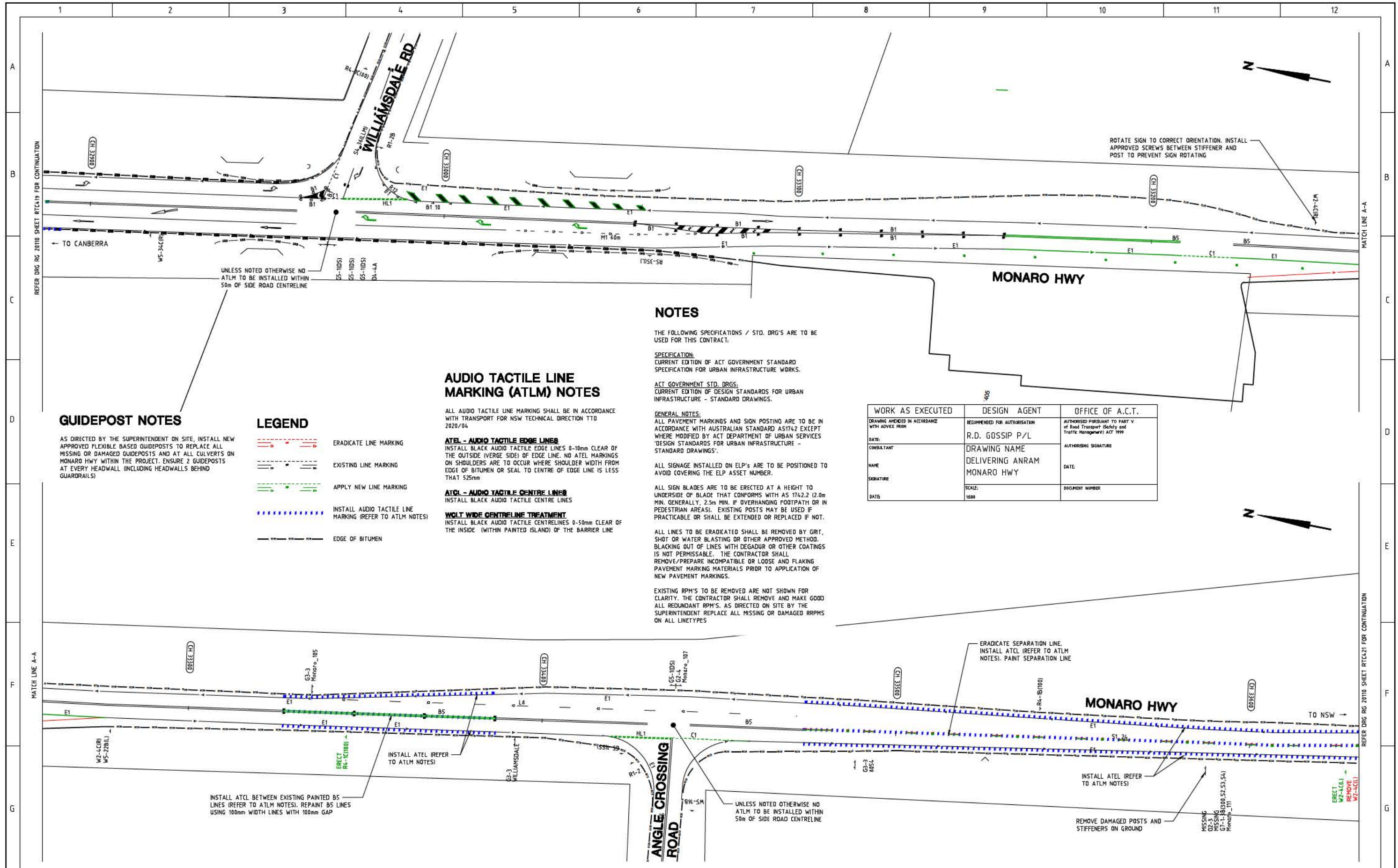
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 19 OF 23

Drg. No. RG 20110
Sheet RTC419
Revision 0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
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AUDIO TACTILE LINE MARKING (ATLM) NOTES

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ATEL - AUDIO TACTILE EDGE LINES
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ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WCLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRE LINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

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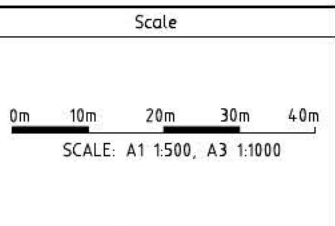
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVISE FROM:	RECOMMENDED FOR AUTHORIZATION R.D. GOSSIP P/L	AUTHORISED PURSUANT TO PART V of Road Transport Safety and Traffic Management ACT 1999
DATE:	DRAWING NAME DELIVERING ANRAM MONARO HWY	AUTHORIZING SIGNATURE
CONSULTANT	SCALE: 1:500	DATE:
NAME		DOCUMENT NUMBER
SIGNATURE		
DATE		

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
RA-1 SPEED RESTRICTION (100)	-	C	1
W2-4 SIDE ROAD INTERSECTION	L	C	1
SIGNS TO BE REMOVED			
W2-4 SIDE ROAD INTERSECTION	L	C	1

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
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Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
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Canberra ACT 2602
Ph: 62 4201 4318

Designed by
Drawn by
Checked by
Approved by

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

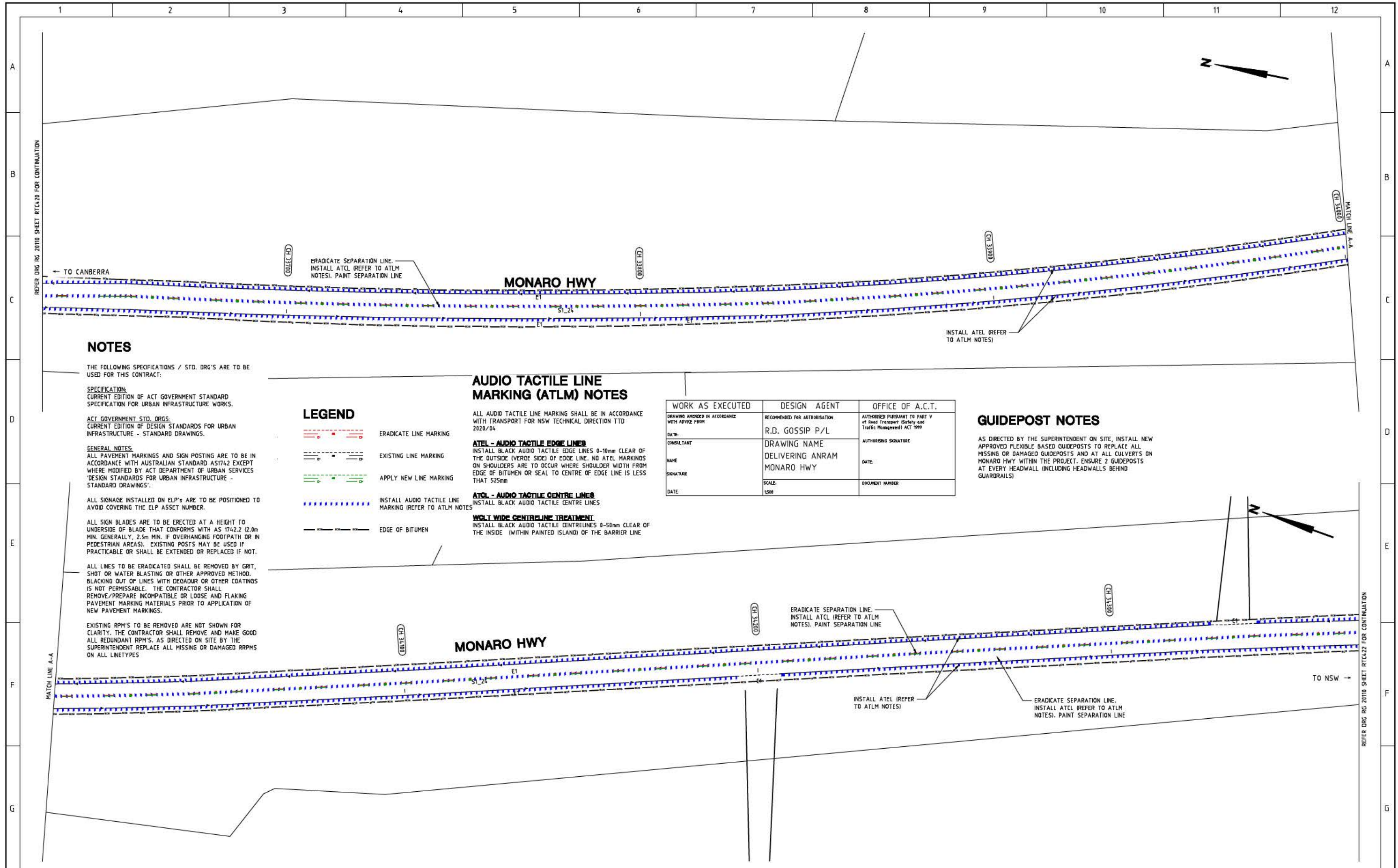
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 20 OF 23

Drg. No.	Sheet	Revision
RG 20110	RTC420	0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

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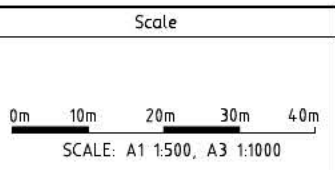
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING APPROVED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION:	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE:
CONSULTANT:	DRAWING NAME:	DATE:
NAME:	MONARO HWY	DOCUMENT NUMBER:
SIGNATURE:	SCALE:	
DATE:	1:500	

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
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AMENDMENTS			
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DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS			
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Designed by: [Signature]
Drawn by: [Signature]
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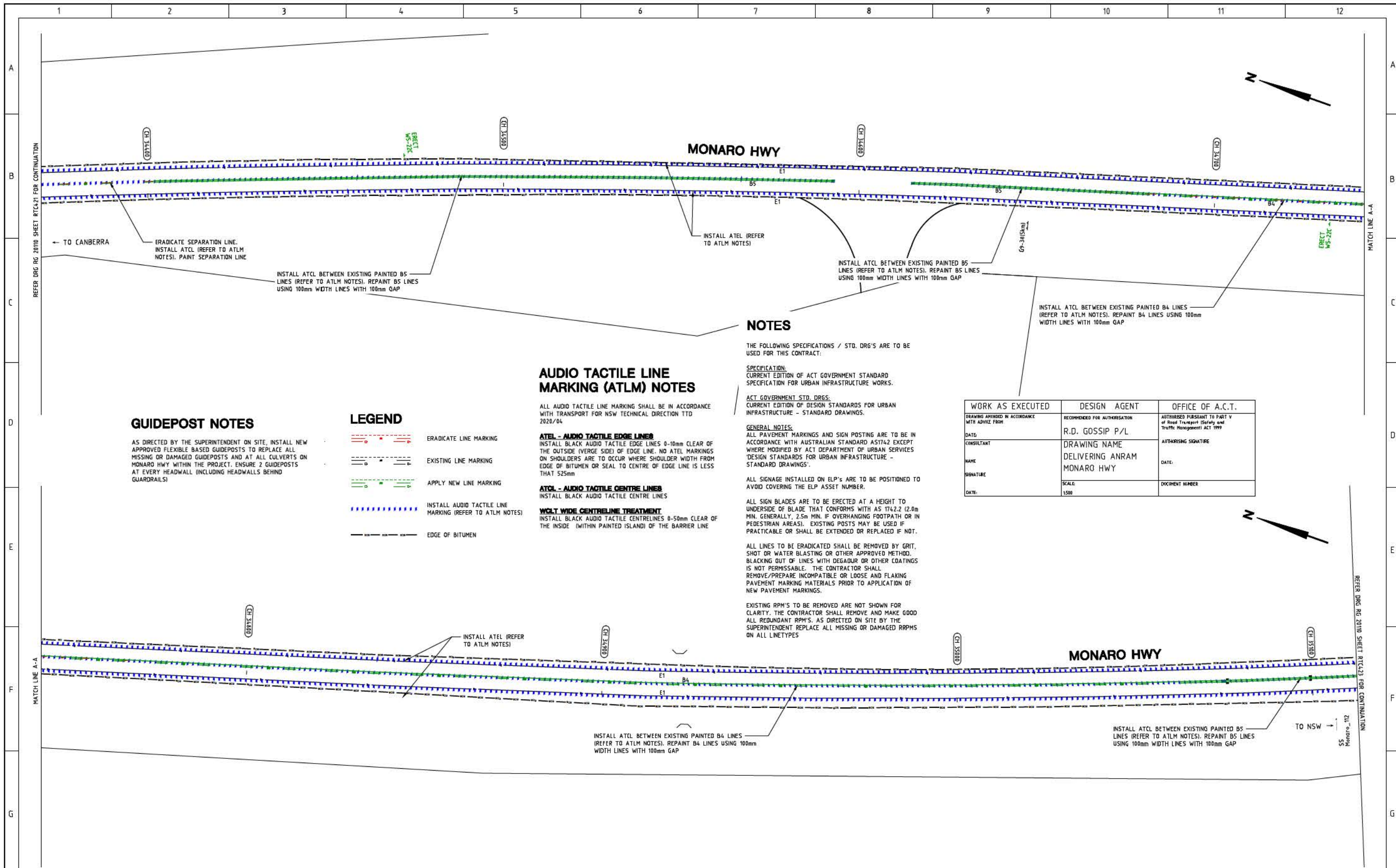
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 21 OF 23

Drg. No. RG 20110
Sheet RTC421
Revision 0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL INCLUDING HEADWALLS BEHIND GUARDRAILS

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WGLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRE LINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

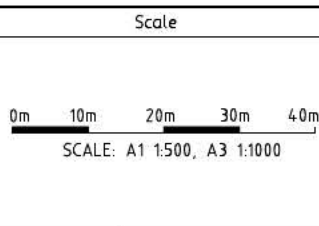
ALL LINES TO BE ERADICATED SHALL BE REMOVED BY GRIT, SHOT OR WATER BLASTING OR OTHER APPROVED METHOD. BLACKING OUT OF LINES WITH DEGRADUR OR OTHER COATINGS IS NOT PERMISSABLE. THE CONTRACTOR SHALL REMOVE/PREPARE INCOMPATIBLE OR LOOSE AND FLAKING PAVEMENT MARKING MATERIALS PRIOR TO APPLICATION OF NEW PAVEMENT MARKINGS.

EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RRPM'S ON ALL LNETYPES

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING APPROVED IN ACCORDANCE WITH ADP/LE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT	DRAWING NAME	AUTHORISING SIGNATURE
NAME	DELIVERING ANRAM	DATE:
SIGNATURE	MONARO HWY	DOCUMENT NUMBER
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
WS-22 TRUCKS (CROSSING OR ENTERING)	-	C	2
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Pevon Street
Campbell ACT 2602
Ph: 02 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

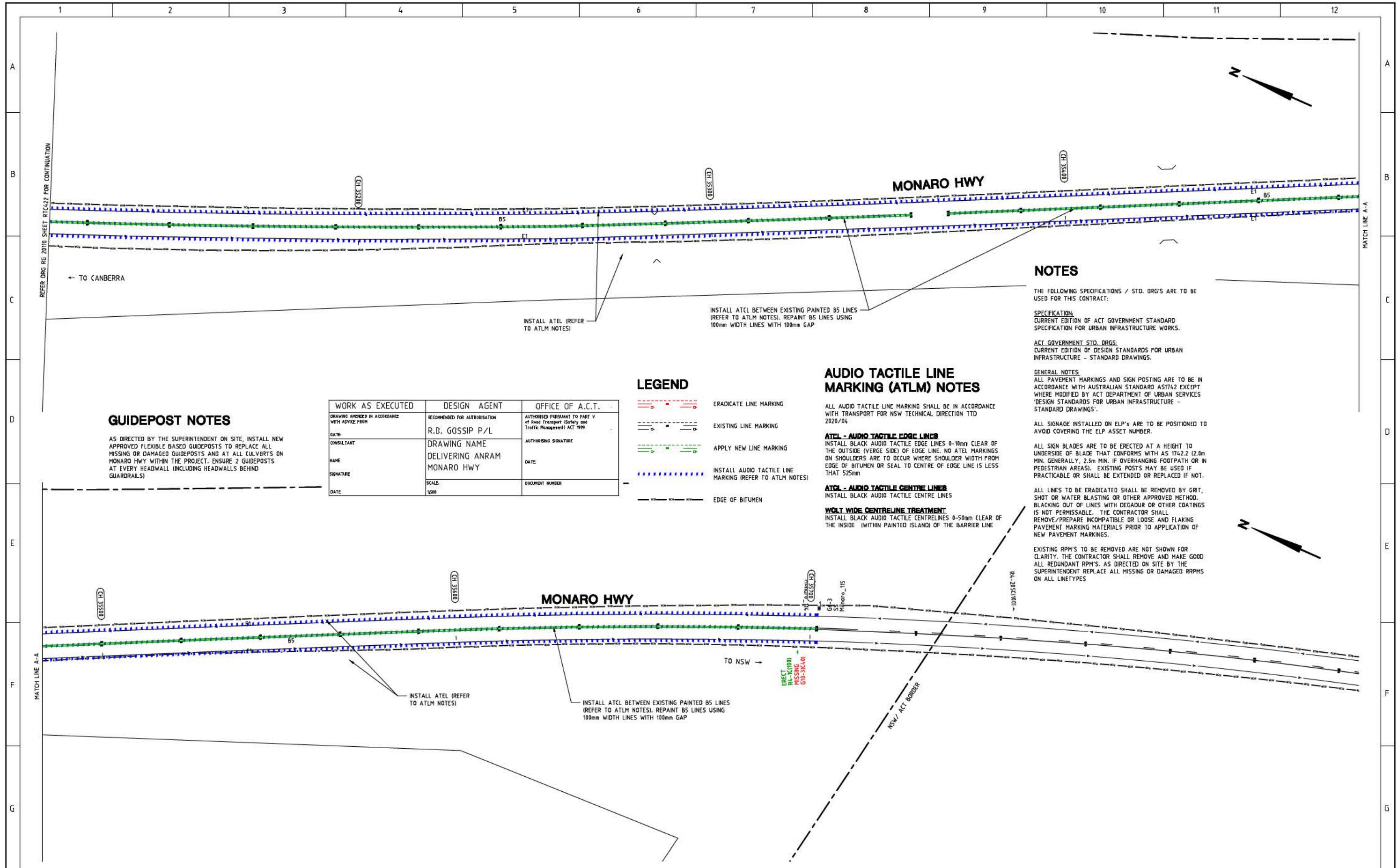
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 22 OF 23

Drg. No. RG 20110
Sheet RTC422
Revision 0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON MONARO HWY WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL INCLUDING HEADWALLS BEHIND GUARDRAILS)

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT	DRAWING NAME	AUTHORISING SIGNATURE
NAME	DELIVERING ANRAM	DATE:
SIGNATURE	MONARO HWY	DOCUMENT NUMBER:
DATE:	SCALE: 1:500	

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

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ATEL - AUDIO TACTILE EDGE LINES
INSTALL BLACK AUDIO TACTILE EDGE LINES 0-10mm CLEAR OF THE OUTSIDE (VERGE SIDE) OF EDGE LINE. NO ATEL MARKINGS ON SHOULDERS ARE TO OCCUR WHERE SHOULDER WIDTH FROM EDGE OF BITUMEN OR SEAL TO CENTRE OF EDGE LINE IS LESS THAN 525mm

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INSTALL BLACK AUDIO TACTILE CENTRE LINES

WGLT WIDE CENTRELINE TREATMENT
INSTALL BLACK AUDIO TACTILE CENTRE LINES 0-50mm CLEAR OF THE INSIDE (WITHIN PAINTED ISLAND) OF THE BARRIER LINE

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRGS ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
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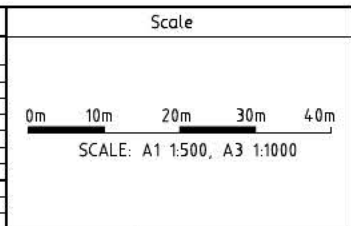
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EXISTING RPH'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPH'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RPH'S ON ALL LINETYPES

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
RA-1 SPEED RESTRICTION (100)	-	C	1
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

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Consulting Engineers
Unit 108, 12 Preston Street
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Ph: 62 4201 4010

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

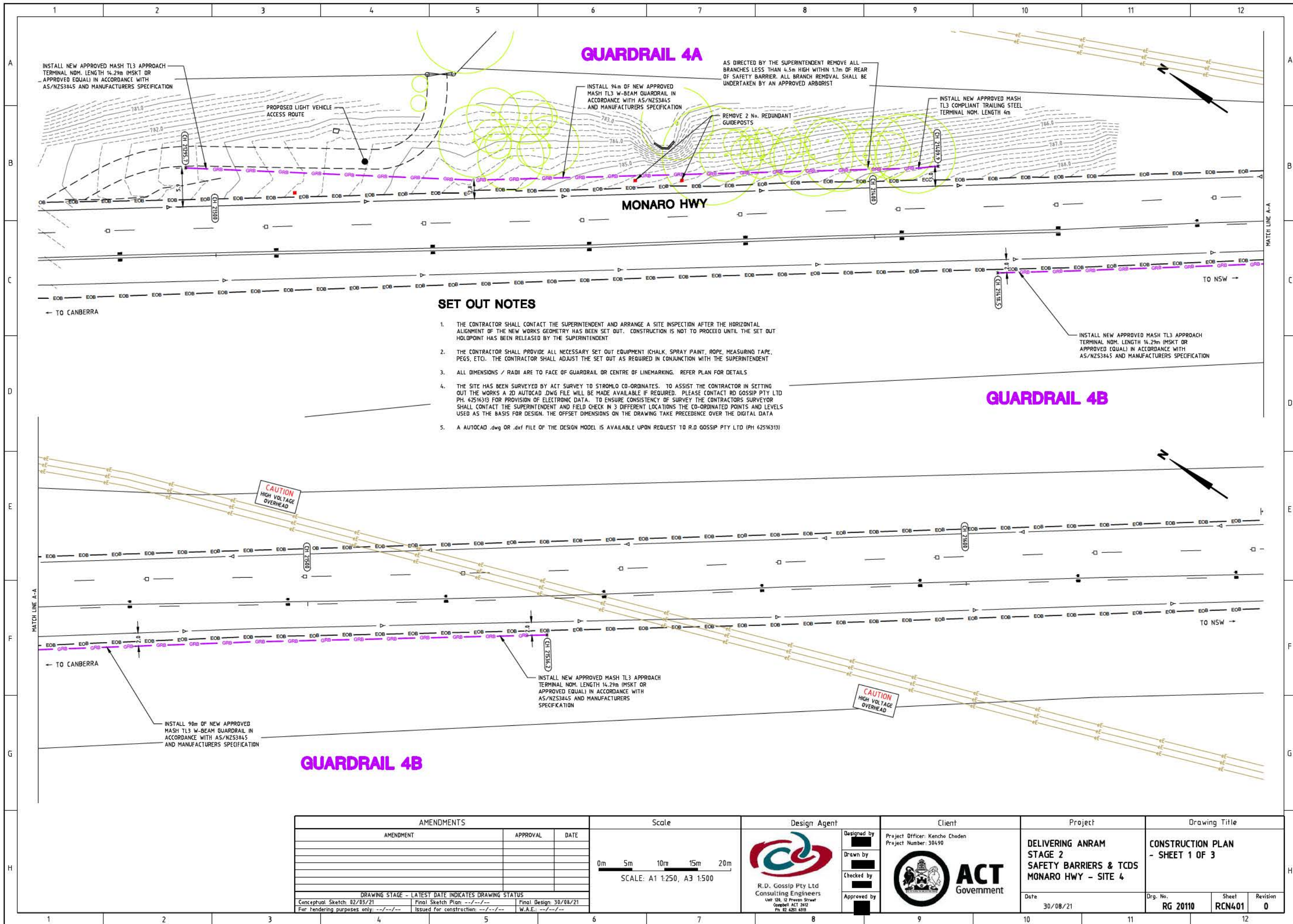
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 23 OF 23

Drw. No. RG 20110
Sheet RTC423
Revision 0



GUARDRAIL 4A

MONARO HWY

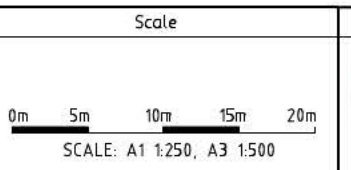
GUARDRAIL 4B

SET OUT NOTES

1. THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT AND ARRANGE A SITE INSPECTION AFTER THE HORIZONTAL ALIGNMENT OF THE NEW WORKS GEOMETRY HAS BEEN SET OUT. CONSTRUCTION IS NOT TO PROCEED UNTIL THE SET OUT HOLDPOINT HAS BEEN RELEASED BY THE SUPERINTENDENT
2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SET OUT EQUIPMENT (CHALK, SPRAY PAINT, ROPE, MEASURING TAPE, PEGS, ETC). THE CONTRACTOR SHALL ADJUST THE SET OUT AS REQUIRED IN CONJUNCTION WITH THE SUPERINTENDENT
3. ALL DIMENSIONS / RADII ARE TO FACE OF GUARDRAIL OR CENTRE OF LINEMARKING. REFER PLAN FOR DETAILS
4. THE SITE HAS BEEN SURVEYED BY ACT SURVEY TO STROMLO CO-ORDINATES. TO ASSIST THE CONTRACTOR IN SETTING OUT THE WORKS A 2D AUTOCAD .DWG FILE WILL BE MADE AVAILABLE IF REQUIRED. PLEASE CONTACT RD GOSSIP PTY LTD PH. 62516313 FOR PROVISION OF ELECTRONIC DATA. TO ENSURE CONSISTENCY OF SURVEY THE CONTRACTORS SURVEYOR SHALL CONTACT THE SUPERINTENDENT AND FIELD CHECK IN 3 DIFFERENT LOCATIONS THE CO-ORDINATED POINTS AND LEVELS USED AS THE BASIS FOR DESIGN. THE OFFSET DIMENSIONS ON THE DRAWING TAKE PRECEDENCE OVER THE DIGITAL DATA
5. A AUTOCAD .dwg OR .dxf FILE OF THE DESIGN MODEL IS AVAILABLE UPON REQUEST TO R.D GOSSIP PTY LTD (PH 62516313)

GUARDRAIL 4B

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/-- Issued for construction: --/--/-- W.A.E.: --/--/--		



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph. 62 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT
Government

Project

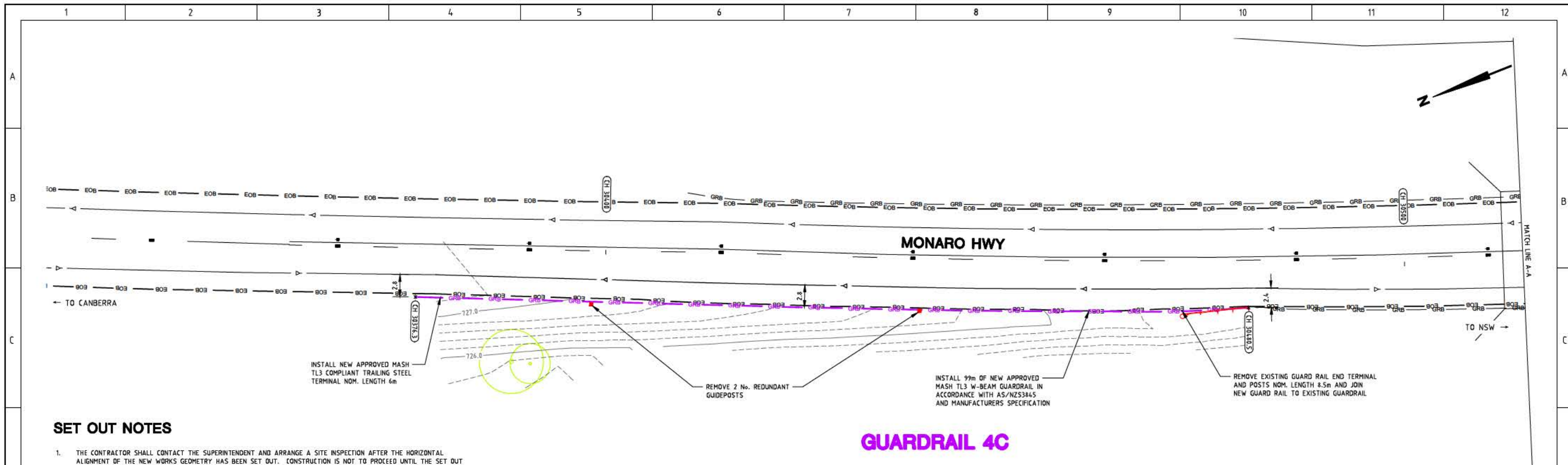
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

CONSTRUCTION PLAN
- SHEET 1 OF 3

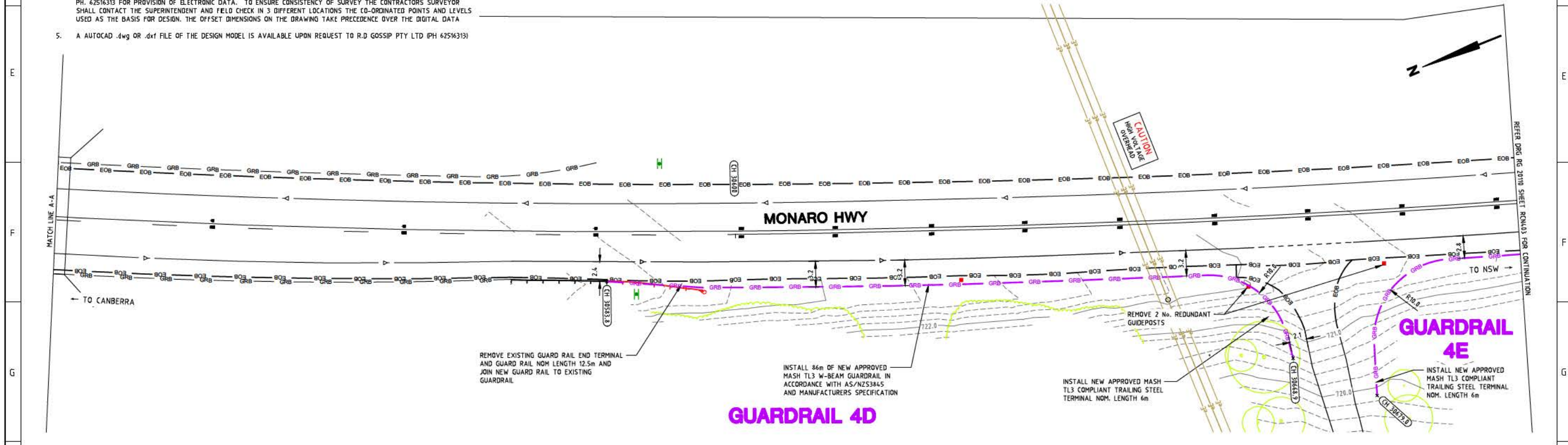
Drg. No.	Sheet	Revision
RG 20110	RCN401	0



GUARDRAIL 4C

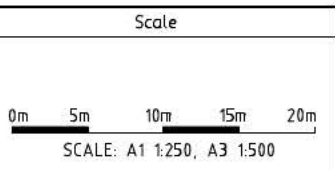
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AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
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Design Agent

R.D. Gossip Pty Ltd
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Campbell ACT 2602
Ph. 62 420 4318

Designed by: [Signature]
Drawn by: [Signature]
Checked by: [Signature]
Approved by: [Signature]

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

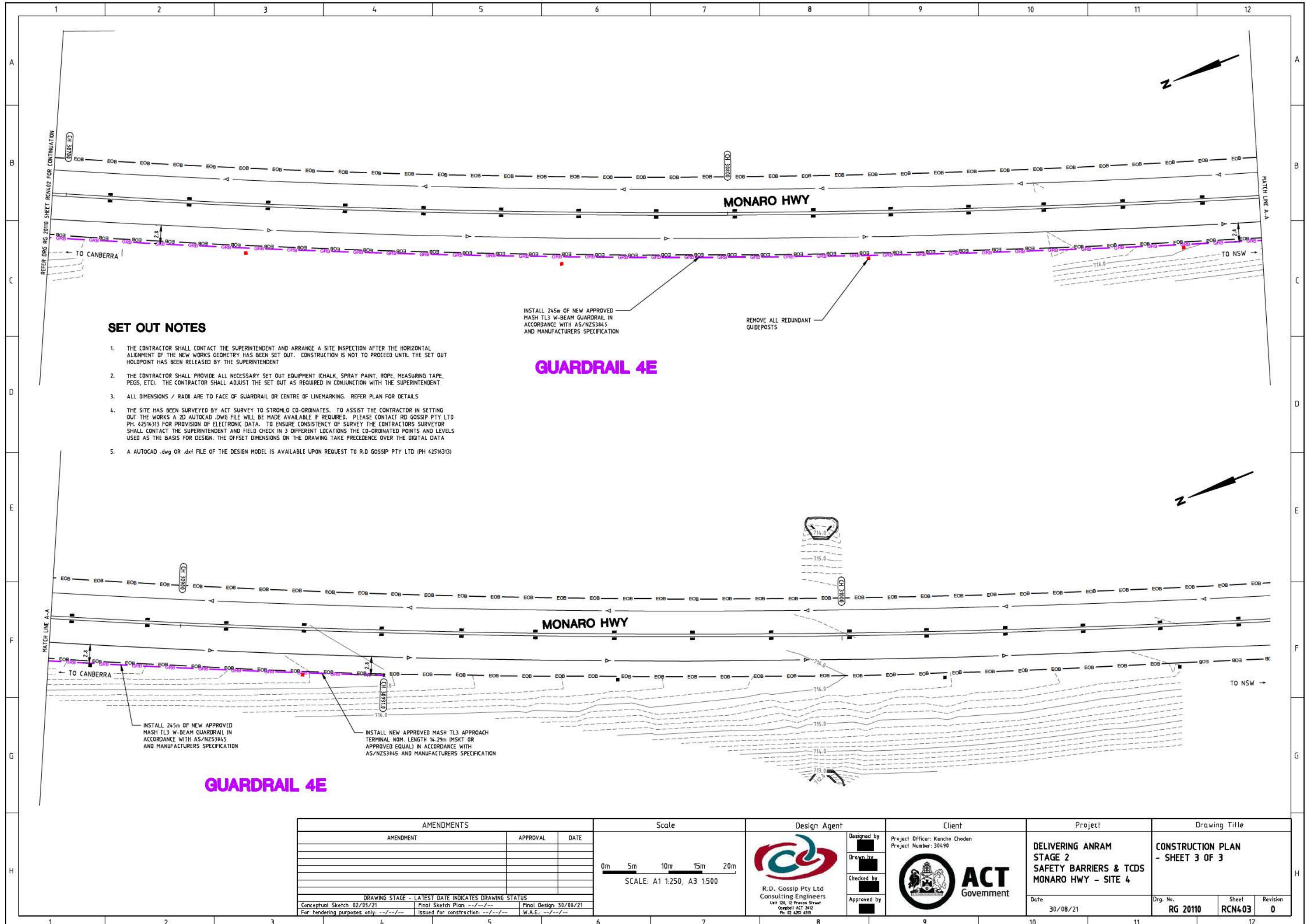
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

Date: 30/08/21

Drawing Title

CONSTRUCTION PLAN
- SHEET 2 OF 3

Drg. No.	Sheet	Revision
RG 20110	RCN4.02	0



SET OUT NOTES

1. THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT AND ARRANGE A SITE INSPECTION AFTER THE HORIZONTAL ALIGNMENT OF THE NEW WORKS GEOMETRY HAS BEEN SET OUT. CONSTRUCTION IS NOT TO PROCEED UNTIL THE SET OUT HOLDPOINT HAS BEEN RELEASED BY THE SUPERINTENDENT
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5. A AUTOCAD .dwg OR .dxf FILE OF THE DESIGN MODEL IS AVAILABLE UPON REQUEST TO R.D GOSSIP PTY LTD IPH (42516313)

INSTALL 245m OF NEW APPROVED MASH TL3 W-BEAM GUARDRAIL IN ACCORDANCE WITH AS/NZS3845 AND MANUFACTURERS SPECIFICATION

REMOVE ALL REDUNDANT GUIDEPOSTS

GUARDRAIL 4E

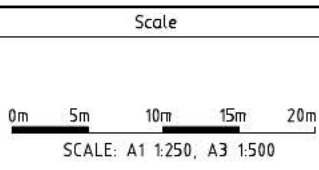
INSTALL 245m OF NEW APPROVED MASH TL3 W-BEAM GUARDRAIL IN ACCORDANCE WITH AS/NZS3845 AND MANUFACTURERS SPECIFICATION

INSTALL NEW APPROVED MASH TL3 APPROACH TERMINAL NOM. LENGTH 14.29m (MSKT OR APPROVED EQUAL) IN ACCORDANCE WITH AS/NZS3845 AND MANUFACTURERS SPECIFICATION

GUARDRAIL 4E

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 104, 12 Preston Street
Campbell ACT 2602
Ph. 62 4201 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
MONARO HWY - SITE 4

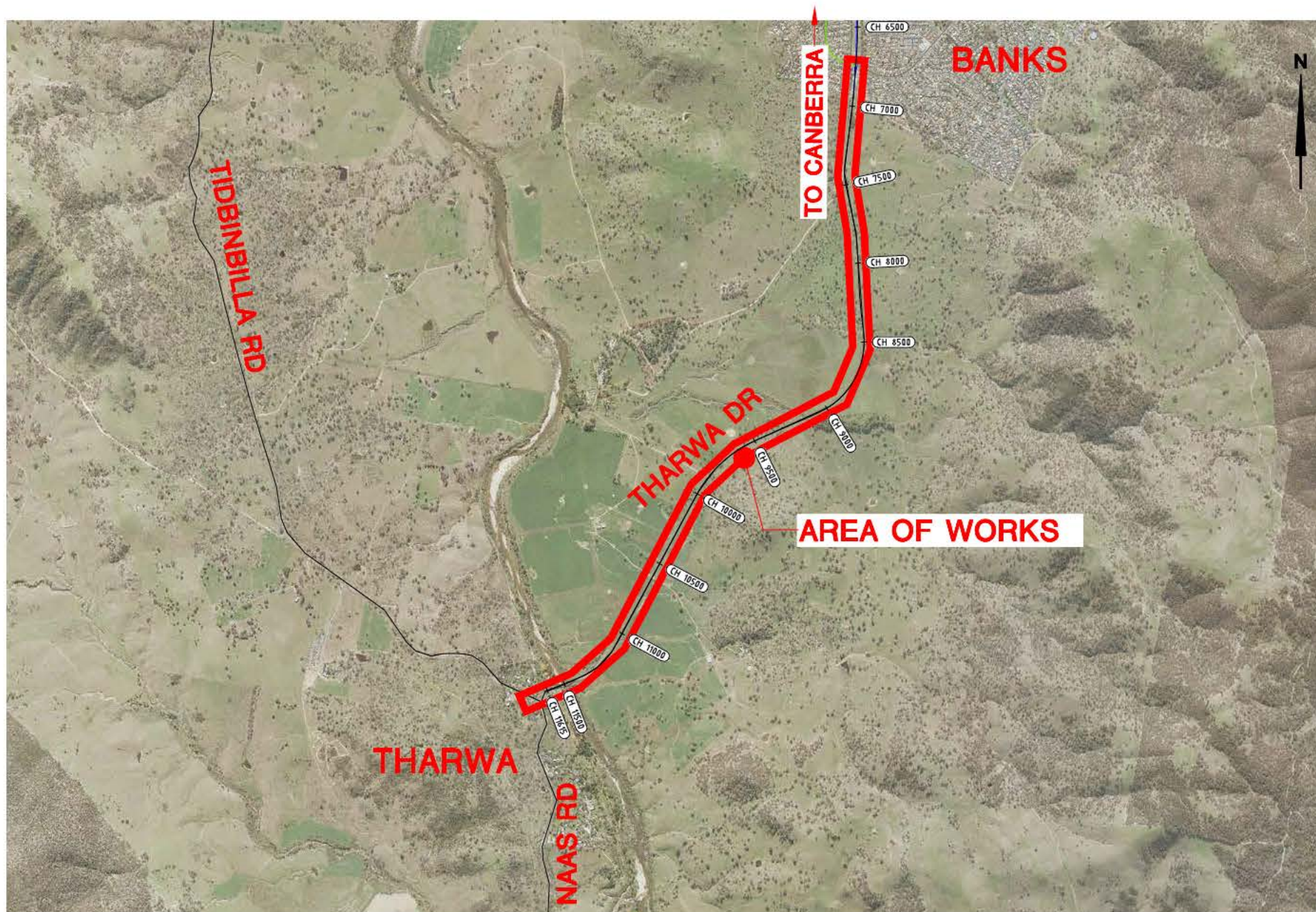
Date: 30/08/21

Drawing Title

CONSTRUCTION PLAN
- SHEET 3 OF 3

Drg. No.	Sheet	Revision
RG 20110	RCN403	0

DELIVERING ANRAM - STAGE 2 SAFETY BARRIERS & TCDS THARWA DR - SITE 6 FINAL DESIGN DRAWINGS



LOCALITY PLAN

DRAWING INDEX

DRAWING NO.	SHEET NO.	DRAWING TITLE
RG 20110	RC0601	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
RG 20110	RNG601	NOTES AND LEGEND
RG 20110	RTC601	TRAFFIC CONTROL DEVICE PLAN - SHEET 1 OF 7
RG 20110	RTC602	TRAFFIC CONTROL DEVICE PLAN - SHEET 2 OF 7
RG 20110	RTC603	TRAFFIC CONTROL DEVICE PLAN - SHEET 3 OF 7
RG 20110	RTC604	TRAFFIC CONTROL DEVICE PLAN - SHEET 4 OF 7
RG 20110	RTC605	TRAFFIC CONTROL DEVICE PLAN - SHEET 5 OF 7
RG 20110	RTC606	TRAFFIC CONTROL DEVICE PLAN - SHEET 6 OF 7
RG 20110	RTC607	TRAFFIC CONTROL DEVICE PLAN - SHEET 7 OF 7
RG 20110	RCN601	CONSTRUCTION PLAN - SHEET 1 OF 1
RG 20110	RCN602	CONSTRUCTION PLAN - SHEET 2 OF 2
RG 20110	RCN603	CONSTRUCTION PLAN - SHEET 3 OF 3
RG 20110	RCN604	CONSTRUCTION PLAN - SHEET 4 OF 5
RG 20110	RCN605	CONSTRUCTION PLAN - SHEET 5 OF 5

APPROVED BY:
M. Gordon
30/08/2021
REVISION 0
SHEET RC0601



ACT
Government



Consulting Engineers

SPECIFICATION NOTES

- ALL WORKS SHALL COMPLY WITH THE CURRENT EDITION OF THE ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS AND THE DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

SERVICES NOTES

- EXISTING SERVICES ARE NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CLEARANCES FROM ALL SERVICE AUTHORITIES.
- THE CONTRACTOR SHALL LOCATE AND IF REQUIRED POTHOLE ALL SERVICES THAT CROSS OR ARE ADJACENT TO THE WORKS. THE CONTRACTOR SHALL ALLOW FOR PAYMENT OF STANDBY/CLEARANCE FEES AS REQUIRED BY SERVICE AUTHORITIES.
- FOR ALL CRITICAL GAS MAINS (STEEL OR 75mm DIAMETER OR GREATER OR THAT HAVE A MAXIMUM ALLOWABLE OPERATING PRESSURE OF 1050 kPa OR GREATER) THAT ARE WITHIN 15m OF A PROPOSED EXCAVATION, THE CONTRACTOR SHALL CONTACT JEMENA AND AGREE ON CONSTRUCTION PROCEDURES PRIOR TO EXCAVATION. ATTENDANCE ON SITE BY JEMENA AT THE CONTRACTOR'S EXPENSE MAY BE REQUIRED, CONTACT JEMENA ON 1300 503 237. IN CASE OF EMERGENCY REPORT DAMAGE TO GAS ASSETS ON 131 909

WASTE MANAGEMENT PLAN

- THE CONTRACTOR SHALL ENSURE THAT WASTE MATERIALS ARE DISPOSED OF AT AN APPROVED RECYCLING DEPOT.
- UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT TIPPING OF MATERIALS AT THE 'TIP FACE' SHALL NOT BE PERMITTED.

POLLUTION, SEDIMENT AND EROSION CONTROL NOTES

- PROVIDE TEMPORARY ENTRY CONTROL AND KERB INLET PROTECTION AT ALL EXISTING AND NEW ENTRANCES TO SUMPS AND UNCOVERED MANHOLES. PROVIDE GEOTEXTILE SEDIMENT TRAPS AND STRAW BALE CHECK DAMS IN DRAINAGE LINES. PROVIDE GEOTEXTILE FABRIC SEDIMENT CONTROL BARRIERS DOWNSTREAM OF ALL EARTHWORK LIMITS.
- PROVIDE STABILISED SERVICE AND ACCESS APRONS INTO SITE COMPOUND AND EGRESS POINTS ONTO PUBLIC ROADS.
- ALL EROSION CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED FOR THE DURATION OF THE CONTRACT AND SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE SUPERINTENDENT.
- THE CONTRACTOR MAY BE REQUIRED TO OBTAIN AN ENVIRONMENTAL AUTHORISATION AND IS RESPONSIBLE FOR THE APPLICATION, APPROVAL AND ANY ASSOCIATED FEES.
- THE CONTRACTOR SHALL TAKE THE STEPS THAT ARE PRACTICABLE AND REASONABLE TO PREVENT OR MINIMISE ENVIRONMENTAL HARM OR ENVIRONMENTAL NUISANCE CAUSED, OR LIKELY TO BE CAUSED, BY ALL CONSTRUCTION ACTIVITIES.
- THE ABOVE REQUIREMENTS ARE ADDITIONAL / SUPPLEMENTARY TO ANY DIRECTION / REQUIREMENT GIVEN BY THE EPA.

TEMPORARY TRAFFIC MANAGEMENT CONCEPT NOTES

- ALL TRAFFIC MOVEMENTS ARE TO BE MAINTAINED AT ALL TIMES.
- TEMPORARY TRAFFIC MANAGEMENT DEVICES ARE TO BE IN ACCORDANCE WITH AS 1742.3-2019.
- ALL WORKERS SHALL WEAR HIGH VISIBILITY EXTERNAL CLOTHING IN ACCORDANCE WITH AS 1742.3-2019.
- THE CONTRACTOR SHALL SUBMIT A TTM PLAN TO THE SUPERINTENDENT FOR ENDORSEMENT AND THEN SUBMIT TO ROADS ACT AND TRANSPORT FOR NSW FOR AUTHORISATION. AMENDMENTS TO THE DRAWINGS SHALL FOLLOW THE SAME ENDORSEMENT AND AUTHORISATION PROCESS.
- THE CONTRACTOR SHALL PROVIDE INDIVIDUAL TTM PLANS FOR BOTH WORKING AND NON WORKING HOURS.
- THE CONTRACTOR SHALL ENSURE THAT ALL SIGNS THAT ARE TO BE COVERED ARE COVERED WITH AN APPROVED DENSE OPAQUE MATERIAL (NOT HESSIAN, SHADE CLOTH OR THE LIKE). THE COVERINGS SHALL COVER THE ENTIRE SIGN FACE AND BE SECURELY FIXED TO PREVENT DISLODGEEMENT BY WIND OR VANDALS.

LANDSCAPE, VERGE, TREE MANAGEMENT AND IRRIGATION NOTES

- ALL LANDSCAPE WORKS ARE TO BE IN ACCORDANCE AND COMPLY WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS SEPTEMBER 2002 - SECTION 9: LANDSCAPE.
- ANY WORKS THAT ALTER OR DISTURB GRASSED AREAS OR OTHER OPEN AREAS IN PUBLIC LAND MUST BE REINSTATED TO MATCH ADJACENT EXISTING CONDITIONS BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS SEPTEMBER 2002 - SECTION 9: LANDSCAPE AND TO THE APPROVAL OF TRANSPORT CANBERRA AND CITY SERVICES.
- EXCAVATION THAT OCCURS WITHIN THE DRIP ZONE OF A TREE MUST BE APPROVED TO MEET THE REQUIREMENTS OF TREE PROTECTION AND OTHER ACT LEGISLATION - REFER ALSO TO AS 4970 - 2009 PROTECTION OF TREES AT DEVELOPMENT SITES. ANY EXCAVATION IS TO BE RESTRICTED TO ONE SIDE OF THE TREE ONLY. WHERE EXCAVATION IS APPROVED THE FOLLOWING MEASURES ARE TO BE ADOPTED FOR TREE PROTECTION:
 - DO NOT TEAR ROOTS FROM THE GROUND - CUT CLEARLY AROUND THE EXCAVATION PERIMETER EXPOSE THE ROOTS WITH NON DAMAGING EXCAVATION EG HYDRO JETTING ON LOW PRESSURE TO ENSURE NO DAMAGE TO THE ROOTS' CAMBIAL LAYER & THEN CUTTING CLEANLY WITH SHARP HAND PRUNING TOOLS, UNLESS APPROVED BY A TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES OFFICER DO NOT SEVER LARGE ROOTS (GREATER THAN 30mm DIA.) CLOSER THAN HALFWAY FROM THE DRIP LINE TO THE TRUNK. ALL ROOTS MUST BE CUT CLEANLY WITH EQUIPMENT SPECIFICALLY DESIGNED TO CUT ROOTS OR OTHER APPROVED PRUNING EQUIPMENT.
 - ROOTS EXPOSED DURING EXCAVATION MUST BE PROTECTED FROM DESICCATION AND KEPT LIGHTLY WATERED OR COVERED WITH HESSIAN WHICH MUST BE KEPT MOIST. BACKFILL EXCAVATION ASAP.
 - TRUNK PROTECTION (BOARDS) MUST BE IMPLEMENTED.
 - UNDER BORING MAY BE AN OPTION.
 - WATER TREES WHICH HAVE HAD DISTURBANCE TO THEIR ROOT ZONE. BASED ON SEASONAL CONDITIONS THE AMOUNT AND FREQUENCY OF WATER NEEDS TO BE ADAPTED TO SUIT THE TREES REQUIREMENT.
 - DUE TO TREE STABILITY ISSUES THE PROJECT SUPERINTENDENT/ARBORIST AND TRANSPORT CANBERRA AND CITY SERVICES (PH: 6207 5478) SHALL BE CONTACTED IF ANY ROOT GREATER THAN 30mm DIAMETER IS PROPOSED TO BE SEVERED. THE CONTRACTOR SHALL LEAVE THE ROOT EXPOSED UNTIL DIRECTED OTHERWISE BY THE SUPERINTENDENT/ARBORIST &/OR TRANSPORT CANBERRA AND CITY SERVICES. ALL ROOTS SMALLER THAN 30mm DIAMETER SHALL BE CUT BY AN APPROVED ARBORIST
- THE CONTRACTOR SHALL ONLY EXCAVATE WITHIN THE AREA REQUIRED FOR THE PROPOSED WORKS AS AGREED BY TRANSPORT CANBERRA AND CITY SERVICES.
- THE CONTRACTOR SHALL ENSURE THAT ALL HOT EXHAUST FUMES FROM PLANT AND EQUIPMENT USED ON THE SITE ARE DIRECTED AWAY FROM THE EXISTING TREE CANOPIES.
- ALL MACHINERY MUST REMAIN CLEAR OF TREE CANOPIES (CANOPY +2m) - NO CANOPY PRUNING TO BE UNDERTAKEN FOR CLEARANCE UNLESS APPROVED BY TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES SECTION. TREE PROTECTION MEASURES THAT MEET THE REQUIREMENTS OF AS 4970 - 2009 MUST BE SET UP TO PREVENT ACCESS/COMPACTON TO THE AREA BENEATH TREE CANOPIES, UNLESS OTHERWISE APPROVED BY TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES SECTION, DURING WORKS FOR MACHINERY, VEHICLES, AND MATERIALS ETC.
- THE CONTRACTOR SHALL ALLOW FOR HYDRO EXCAVATION USING AN APPROVED LOW PRESSURE (1500kPa WITHIN 3m OF TREE TRUNKS, 2000kPa ELSEWHERE) MACHINE AS NECESSARY TO ENSURE COMPLIANCE WITH THE ABOVE REQUIREMENTS.
- WHERE DISTURBED BY THE WORKS THE CONTRACTOR SHALL ADJUST ALL SPRINKLERS, PIPE WORK AND WIRING AS DIRECTED BY THE SUPERINTENDENT. ALL WORK SHALL BE UNDERTAKEN BY AN APPROVED IRRIGATION SUB-CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- ALL TREE AND ROOT TRIMMING/REMOVAL SHALL BE UNDERTAKEN BY A QUALIFIED ARBORIST UPON APPROVAL BY TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES SECTION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL ENSURE ALL TREE PROTECTION FENCING IS ERECTED PRIOR TO COMMENCEMENT OF ANY SITE CONSTRUCTION WORKS AND IS TO REMAIN FOR THE ENTIRE DURATION OF THE WORKS. THE CONTRACTOR SHALL ENSURE THAT NO VEHICULAR PARKING, STORAGE AND STOCKPILING WITHIN TREE PROTECTION FENCING OCCURS THROUGHOUT THE CONTRACT DURATION.

SAFETY BARRIER NOTES

- ALL SAFETY BARRIER INSTALLATIONS SHALL BE IN ACCORDANCE WITH
 - AS 3845.1-2015 ROAD SAFETY BARRIER SYSTEMS AND DEVICES - PART 1 - ROAD SAFETY BARRIER SYSTEMS
 - DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS
 - AUSTROADS GUIDE TO ROAD DESIGN PART 6 ROADSIDE DESIGN, SAFETY AND BARRIERS
- THE CONTRACTOR SHALL FIELD CHECK THE PROPOSED SAFETY BARRIER POST LOCATIONS TO ENSURE THAT THERE IS NO CONFLICT WITH OTHER ASSETS, FINISHES, FIXTURES AND FITTINGS. THE PROPOSED DESIGN IS TO BE ACCURATELY FIELD CHECKED PRIOR TO MANUFACTURE OF THE NEW SAFETY BARRIER TO ENSURE NO CONFLICT.
- THE CONTRACTOR SHALL UNDERTAKE POST DEFLECTION TESTING TO MEET TfNSW REQUIREMENTS. A MINIMUM OF 5% OF POSTS SHALL BE TESTED AND AT LEAST 2 POSTS ON EACH LENGTH OF SAFETY BARRIER. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE SUPERINTENDENT ON WHICH POSTS ARE TO BE TESTED.

CONSTRUCTION LEGEND



INSTALL APPROVED MASH ROAD SAFETY BARRIER IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. REFER PLANS FOR DETAILS



REMOVE GUIDE POST

SAFETY NOTES

1. GENERAL NOTES FOR ALL PHASES OF THE PROJECTS LIFE

- THE CONTRACTOR SHALL COMPLY WITH THE CURRENT WORK HEALTH AND SAFETY ACT, REGULATIONS AND INDUSTRY CODES AND PRACTICE GUIDELINES.
- SERVICES
 - SERVICE LOCATION PRIOR TO COMMENCEMENT OF WORKS ON SITE.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL SERVICE CLEARANCES (INCLUDING SERVICE TIE LOCATIONS) FROM ALL SERVICE AUTHORITIES.
 - THE CONTRACTOR SHALL HYDRO-POTHOLE ALL SERVICES THAT CROSS OR ARE ADJACENT TO THE PROPOSED WORKS TO DETERMINE THE VERTICAL AND HORIZONTAL ALIGNMENT.
 - THE CONTRACTOR SHALL IDENTIFY ALL OVERHEAD SERVICES WITHIN THE WORK SITE AREA AND PROTECT PLANT.
 - FOR ALL GAS MAINS 75mm DIAMETER OR GREATER THAT HAVE A PRESSURE OF 1050 kPa OR GREATER THAT ARE WITHIN 15m OF A PROPOSED EXCAVATION, THE CONTRACTOR SHALL CONTACT ZNX ON (02) 6203 0660 AND AGREE ON CONSTRUCTION PROCEDURES PRIOR TO EXCAVATION. ATTENDANCE ON SITE BY ZNX AT THE CONTRACTOR'S EXPENSE MAY BE REQUIRED.
 - WORKS NEAR SERVICES AND STRUCTURES.
 - AVOID THE USE OF HEAVY MACHINERY OR HEAVY VIBRATING LOADS NEAR LARGE TRUNK GAS, WATER SUPPLY, COMMUNICATIONS INFRASTRUCTURE, RETAINING WALLS AND SUSPENDED SLABS. THE CONTRACTOR SHALL KEEP CLEAR OF ALL OVERHEAD SERVICES WITHIN THE WORK SITE AREA.
 - TEMPORARY TRAFFIC MANAGEMENT: (AS1742.3)
 - ALL TEMPORARY TRAFFIC MANAGEMENT DEVICES ARE TO BE IN ACCORDANCE WITH AS 1742.3-2009.
 - ALL WORKERS SHALL WEAR HIGH VISIBILITY EXTERNAL CLOTHING IN ACCORDANCE WITH AS 1742.3-2009.
 - ALL SIGNS AND DEVICES SHALL BE ERECTED WITHIN THE LINE OF SIGHT OF THE ROAD USER. THEY SHALL NOT BE OBTAINED BY VEGETATION OR PARKED VEHICLES AND SHALL BE POSITIONED WHERE THEY DO NOT BECOME A HAZARD TO PEDESTRIANS OR VEHICLES.
 - THE CONTRACTOR SHALL ASSESS ANY EXCAVATIONS GREATER THAN 500mm IN DEPTH AND PROVIDE PROTECTION AND DELINEATION IN ACCORDANCE WITH TABLE E1 OF AS 1742.3.
 - THE CONTRACTOR SHALL SUBMIT TTM PLANS TO THE SUPERINTENDENT FOR ENDORSEMENT AND THEN SUBMIT TO ROADS ACT FOR APPROVAL. AMENDMENTS TO THE TTM PLANS SHALL FOLLOW THE SAME ENDORSEMENT AND APPROVAL PROCESS.
 - WHERE EXISTING OR NEW TTM SIGNAGE (BY OTHERS) CONFLICTS WITH THE PROPOSED TTM DEVICES, THE CONTRACTOR SHALL LIAISE WITH ROADS ACT AND ADJUST THE TTM SIGNAGE AS REQUIRED TO ENSURE THE TTM DESIGN INTENT IS MET AND REMOVE THE CONFLICT.
 - ALL STAR PICKETS SHALL BE CAPPED AT ALL TIMES.
- NO WORK IS TO BE UNDERTAKEN IN POOR VISIBILITY CONDITIONS (BAD WEATHER, FOG, DUST, SMOKE, SUN GLARE, DARKNESS ETC).
- MOBILE PHONES SHALL ONLY BE USED IN A PROTECTED AREA OR 10m CLEAR OF ADJACENT VEHICULAR TRAFFIC AND CONSTRUCTION VEHICLES. MOBILE PHONES SHALL NOT BE USED WHEN OPERATING ANY PLANT OR EQUIPMENT.
- THE CONTRACTOR SHALL IDENTIFY AND KEEP CLEAR OF ALL OVERHEAD OBSTRUCTIONS WITHIN THE WORK SITE AREA (TREES, BRIDGES ETC).
- ALL EXPOSED VERTICAL REINFORCEMENT BARS SHALL BE COGGED.

2. CONSTRUCTION PHASE

- THE CONTRACTOR SHALL UNDERTAKE A SITE SPECIFIC RISK ASSESSMENT PRIOR TO UNDERTAKING ANY WORKS ON THE SITE.
- SITE CONSTRAINTS IDENTIFIED AS 'NON STANDARD' WITHIN THE SCOPE OF THE PROJECT ARE AS FOLLOWS:
 - PROVIDE PEDESTRIAN PROTECTION FENCING AROUND ALL EXPOSED EXCAVATIONS.
 - EXISTING SERVICES HAVE BEEN INSTALLED UNDER OLD STANDARDS AND MAY HAVE LESS COVER THAN CURRENT STANDARDS. ALL EXCAVATIONS GREATER THAN 300mm DEEP SHOULD BE HYDRO EXCAVATED.
 - ASBESTOS MAY BE PRESENT IN SUBGRADE. ASBESTOS SHALL BE RESPONDED TO AS A WHS INCIDENT AND REMOVED BY A LICENSED SUB-CONTRACTOR.

3. MAINTENANCE PHASE

- THE CONTRACTOR SHALL UNDERTAKE A SITE SPECIFIC RISK ASSESSMENT PRIOR TO UNDERTAKING MAINTENANCE ON THE SITE AS SITE CONDITIONS MAY VARY FROM THE ORIGINAL CONSTRUCTION PHASE (VEGETATION GROWTH, ADDITIONAL SERVICE INSTALLATIONS ETC).
- SITE CONSTRAINTS IDENTIFIED AS 'NON STANDARD' WITHIN THE SCOPE OF THE PROJECT ARE AS FOLLOWS:
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4. DEMOLITION PHASE

- THE CONTRACTOR SHALL UNDERTAKE A SITE SPECIFIC RISK ASSESSMENT PRIOR TO UNDERTAKING DEMOLITION ON THE SITE AS SITE CONDITIONS MAY VARY FROM THE ORIGINAL CONSTRUCTION PHASE (VEGETATION GROWTH, ADDITIONAL SERVICE INSTALLATIONS ETC).
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AMENDMENTS		
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DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/-- Issued for construction: --/--/-- W.A.E.: --/--/--		

Scale

Design Agent



R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 02 4201 4318

Designed by []
Drawn by []
Checked by []
Approved by []

Client

Project Officer: Kencho Choden
Project Number: 30490



ACT Government

Project

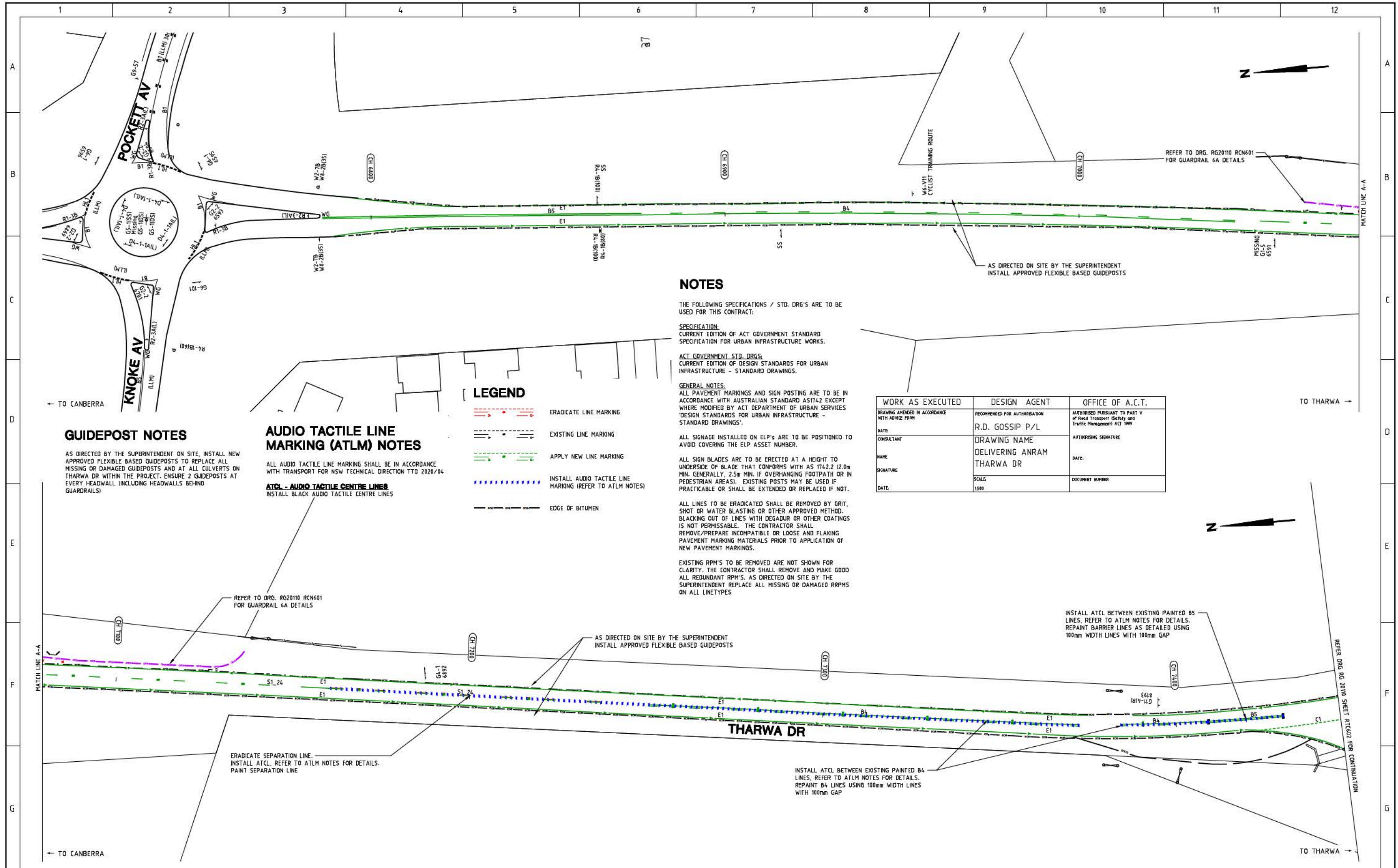
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
THARWA DR - SITE 6

Date: 30/08/21

Drawing Title

NOTES AND LEGEND

Drg. No.	Sheet	Revision
RG 20110	RN0601	0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

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ACT GOVERNMENT STD. DRG'S:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVISE FROM:	RECOMMENDED FOR AUTHORIZATION:	AUTHORIZED PRESIDENT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE:
CONSULTANT:	DRAWING NAME:	DATE:
NAME:	DELIVERING ANRAM THARWA DR	DOCUMENT NUMBER:
SIGNATURE:	SCALE:	
DATE:	1:500	

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON THARWA DR WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

REFER TO DRG. RG20110 RCN601 FOR GUARDRAIL 6A DETAILS

AS DIRECTED ON SITE BY THE SUPERINTENDENT INSTALL APPROVED FLEXIBLE BASED GUIDEPOSTS

INSTALL ATCL BETWEEN EXISTING PAINTED B5 LINES, REFER TO ATLM NOTES FOR DETAILS. REPAINT BARRIER LINES AS DETAILED USING 100mm WIDTH LINES WITH 100mm GAP

ERADICATE SEPARATION LINE. INSTALL ATCL, REFER TO ATLM NOTES FOR DETAILS. PAINT SEPARATION LINE

INSTALL ATCL BETWEEN EXISTING PAINTED B4 LINES, REFER TO ATLM NOTES FOR DETAILS. REPAINT B4 LINES USING 100mm WIDTH LINES WITH 100mm GAP

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
-	-	-	-
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
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Scale

SCALE: A1 1:500, A3 1:1000

Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Canberra ACT 2602
Ph: 62 4201 4010

Client

ACT Government

Project

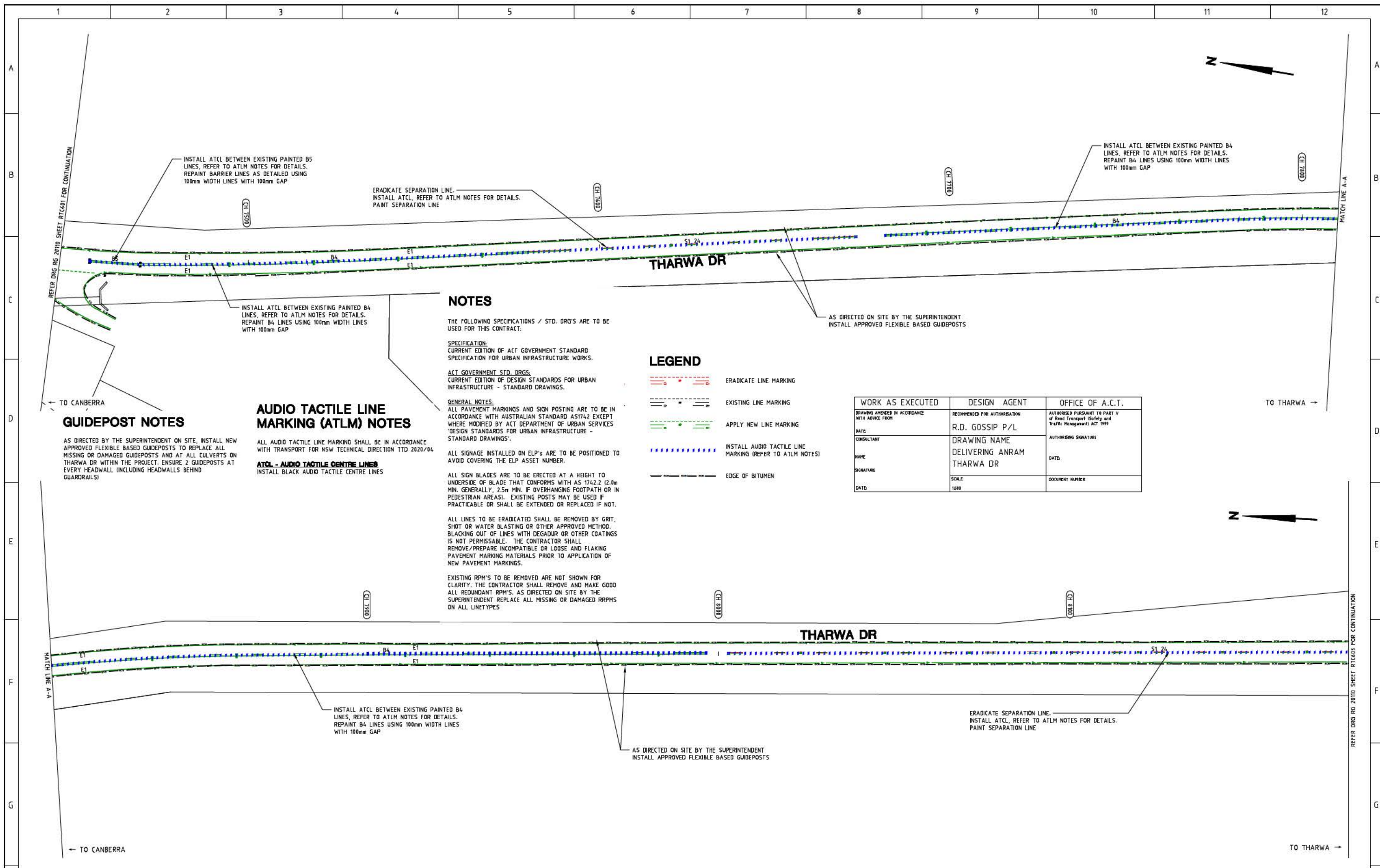
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
THARWA DR - SITE 6

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 1 OF 7

Drg. No.	Sheet	Revision
RG 20110	RTC601	0



GUIDEPOST NOTES

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ACT GOVERNMENT STD. DRGS.
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

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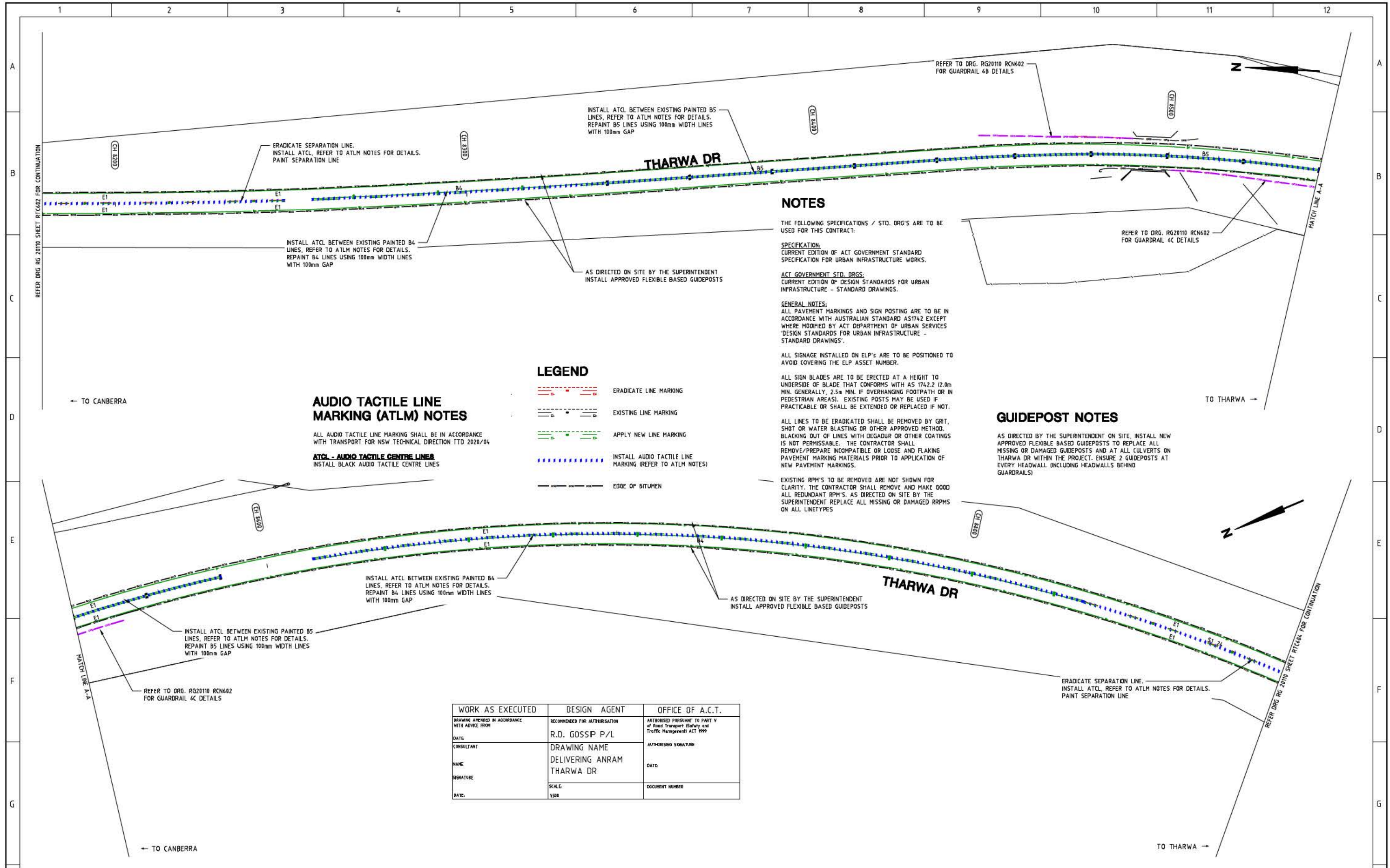
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LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVISE FROM:	RECOMMENDED FOR AUTHORIZATION R.D. GOSSIP P/L	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	DRAWING NAME DELIVERING ANRAM THARWA DR	AUTHORIZING SIGNATURE
CONSULTANT:	SCALE 1:500	DATE:
NAME:		DOCUMENT NUMBER:
SIGNATURE:		
DATE:		

SIGN SCHEDULE				AMENDMENTS				Scale		Design Agent		Client		Project		Drawing Title	
DESCRIPTION				AMENDMENT				0m 10m 20m 30m 40m		R.D. Gossip Pty Ltd Consulting Engineers Unit 108, 12 Preston Street Canberra ACT 2602 Ph: 62 4291 4318		Project Officer: Kencho Choden Project Number: 30490		DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS THARWA DR - SITE 6		TRAFFIC CONTROL DEVICE PLAN - SHEET 2 OF 7	
SIGN TO BE ERECTED				APPROVAL				SCALE: A1 1:500, A3 1:1000				Date: 30/08/21		Drg. No. RG 20110		Sheet RTC602	
SIGN TO BE REMOVED				DATE										Revision: 0			
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS				Issued for construction: --/--/--													
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ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

- LEGEND**
- ERADICATE LINE MARKING
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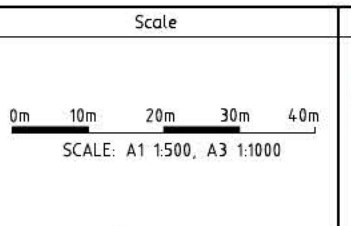
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DATE:	SCALE:	
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Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 02 4201 4318

Designed by: [Signature]
Drawn by: [Signature]
Checked by: [Signature]
Approved by: [Signature]

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

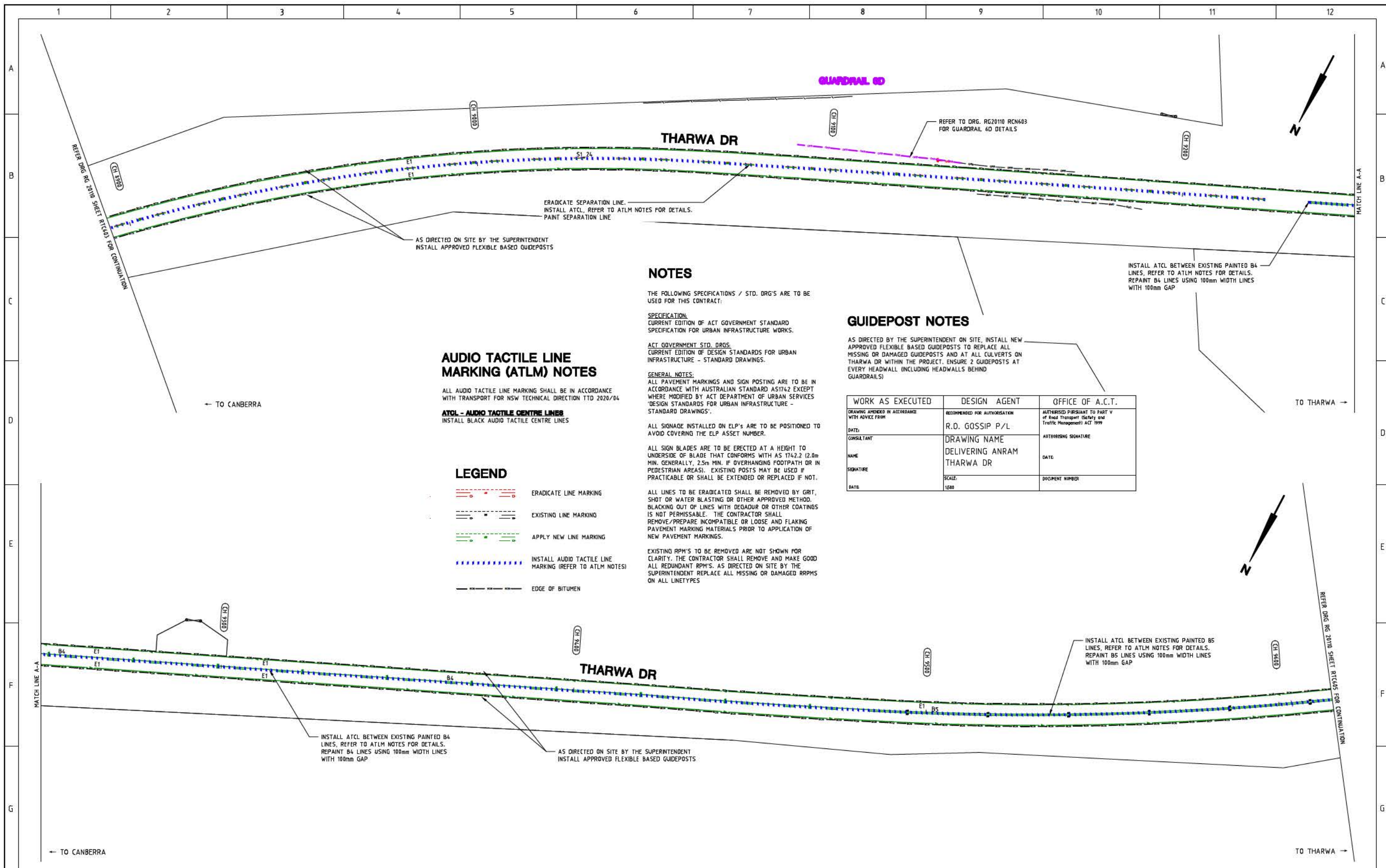
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THARWA DR - SITE 6

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 3 OF 7

Drg. No.	Sheet	Revision
RG 20110	RTC603	0



AUDIO TACTILE LINE MARKING (ATLM) NOTES

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ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

LEGEND

- ERADICATE LINE MARKING
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GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON THARWA DR WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT	DRAWING NAME	AUTHORISING SIGNATURE
NAME	DELIVERING ANRAM	DATE:
SIGNATURE	THARWA DR	DOCUMENT NUMBER
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
-	-	-	-
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

Scale

SCALE: A1 1:500, A3 1:1000

Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 02 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

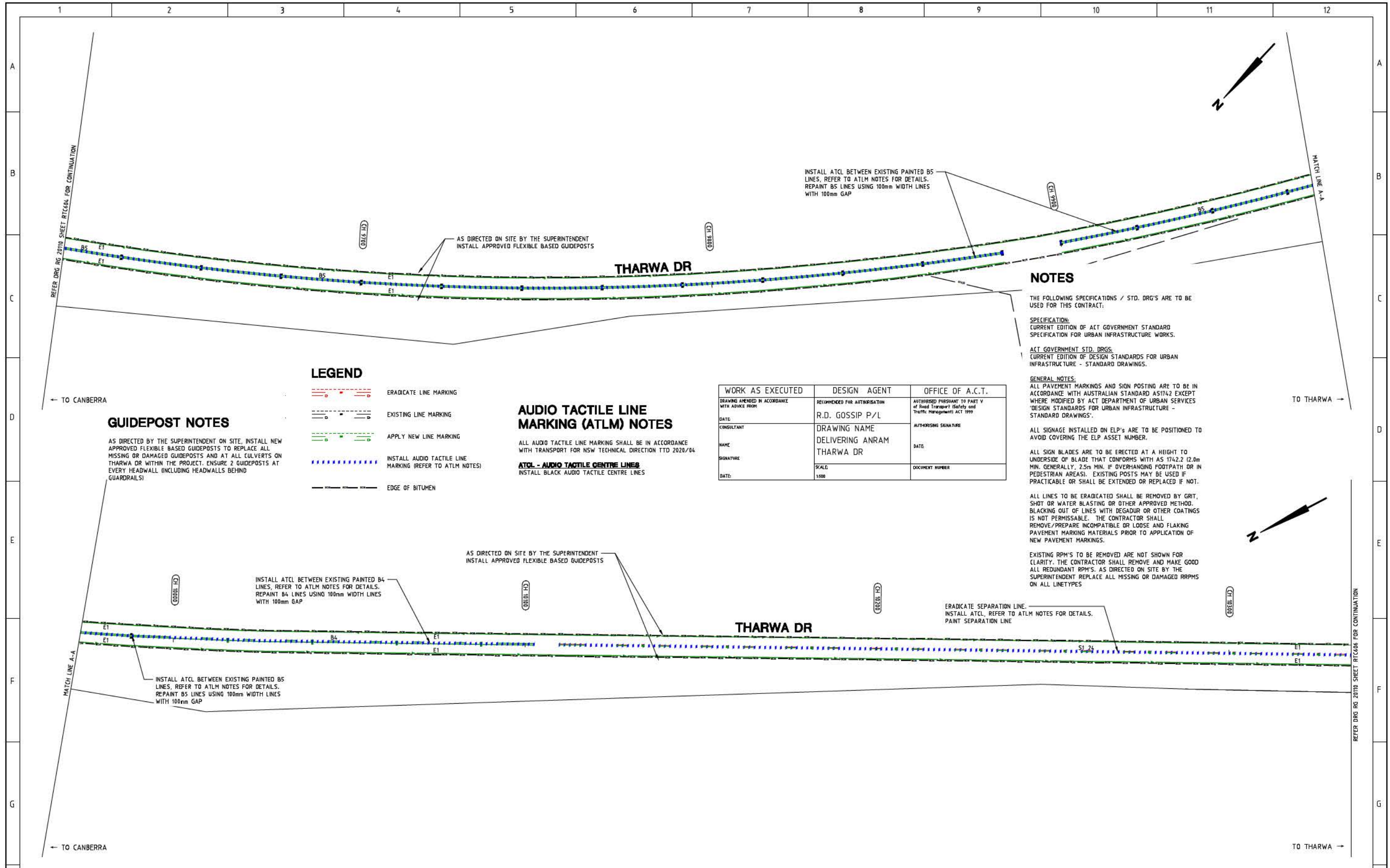
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
THARWA DR - SITE 6

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 4 OF 7

Org. No. RG 20110
Sheet RTC604
Revision 0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON THARWA DR WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
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ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

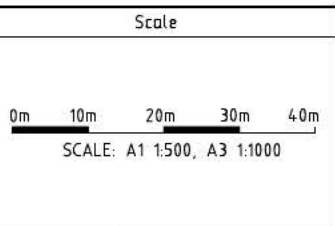
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	THARWA DR	
DATE:	SCALE	
	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
69-79 SPEED LIMIT AHEAD (50)	-	B	1
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 02 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

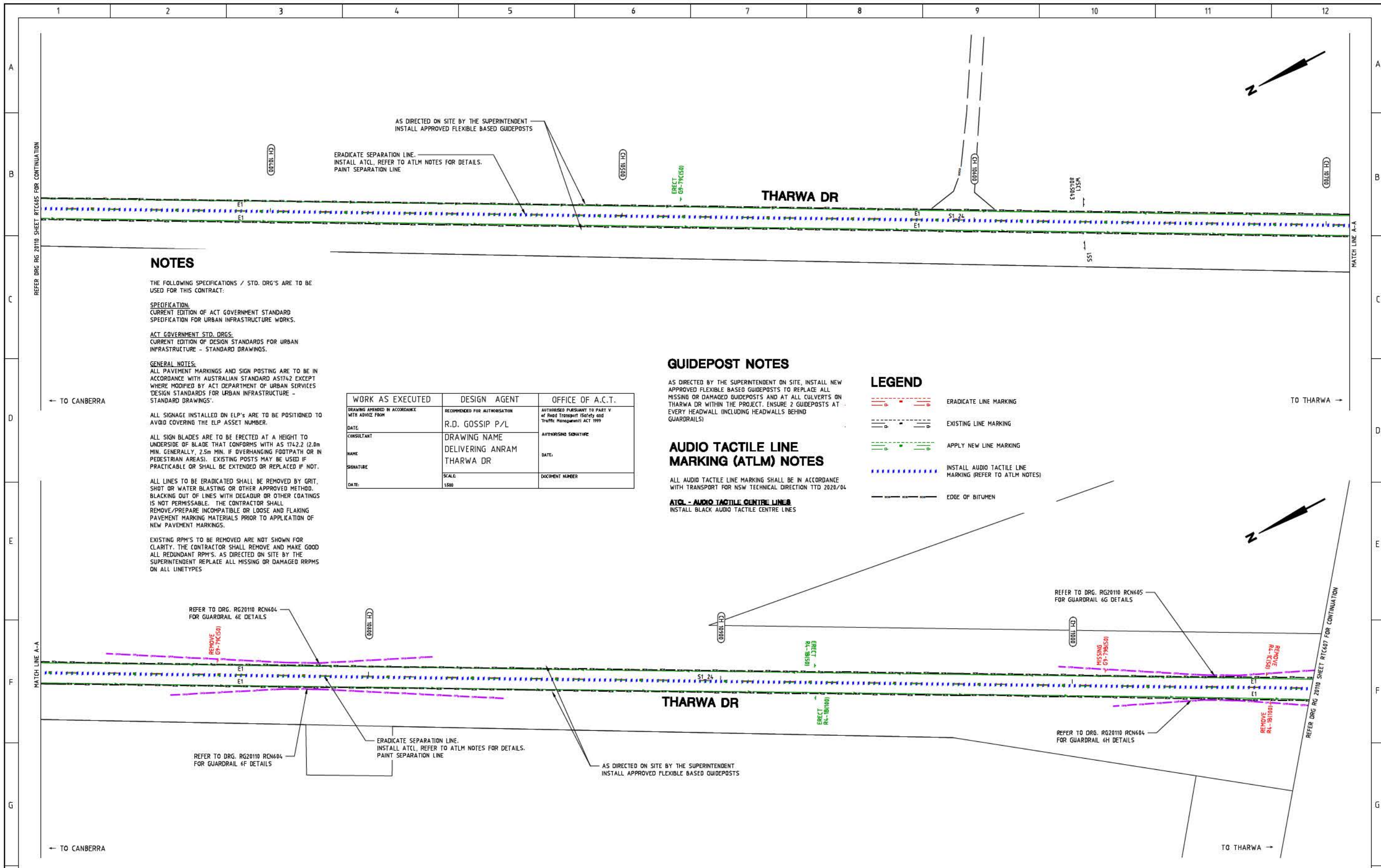
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
THARWA DR - SITE 6

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 5 OF 7

Drg. No. **RG 20110** Sheet **RTC605** Revision **0**



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:

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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTOMISATION:	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT:	DRAWING NAME:	AUTHORSING SIGNATURE:
NAME:	DELIVERING ANRAM	DATE:
SIGNATURE:	THARWA DR	DOCUMENT NUMBER:
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS ON THARWA DR WITHIN THE PROJECT. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINE

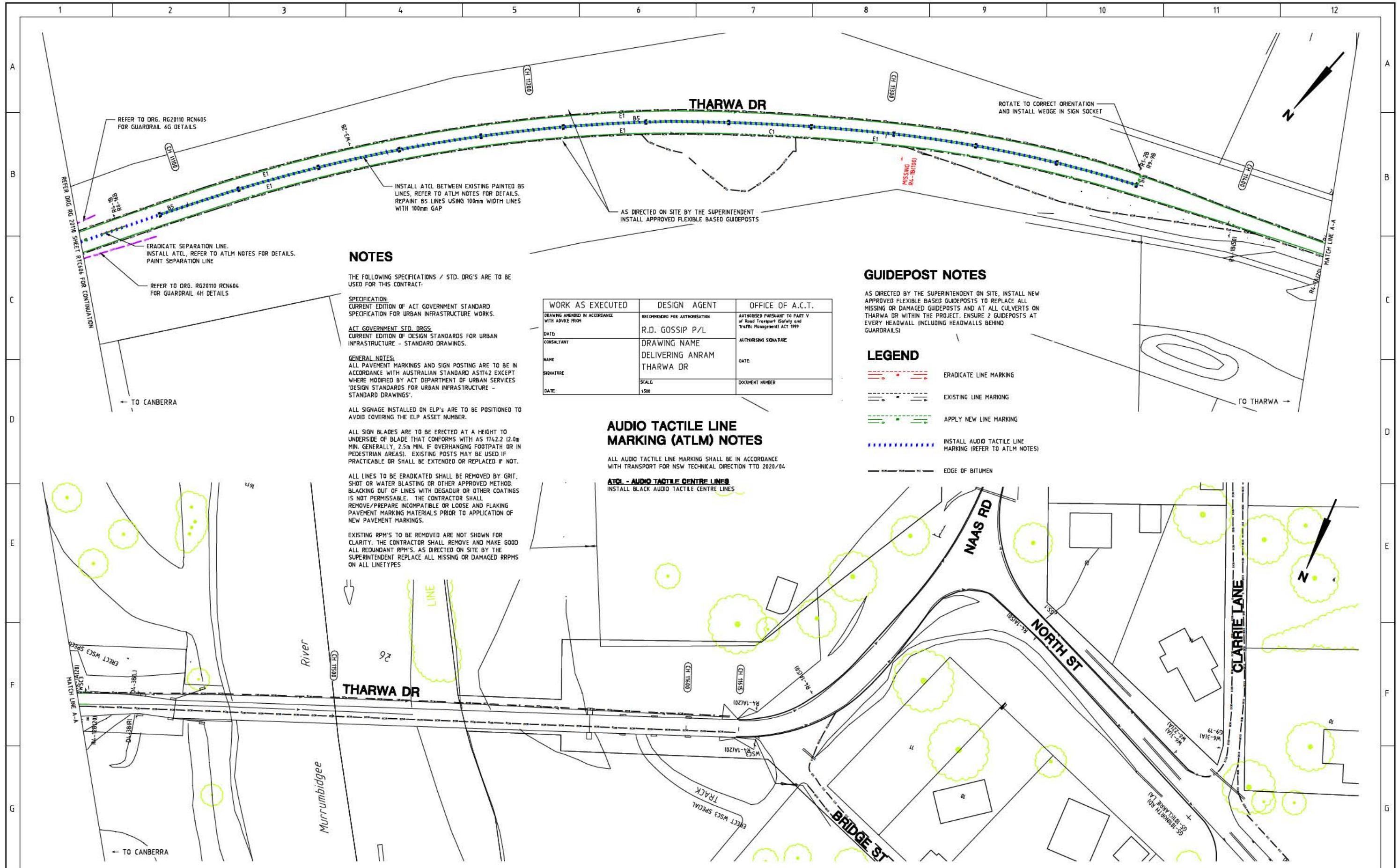
INSTALL BLACK AUDIO TACTILE CENTRE LINES

SIGN SCHEDULE				AMENDMENTS		
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL	DATE
SIGNS TO BE ERECTED						
RA-1 SPEED RESTRICTION (100)	-	B	1			
RA-1 SPEED RESTRICTION (50)	-	B	1			
G9-79 SPEED LIMIT AHEAD (50)	-	C	1			
SIGNS TO BE REMOVED						
RA-1 SPEED RESTRICTION (100)	-	B	1			
RA-1 SPEED RESTRICTION (50)	-	C	1			
G9-79 SPEED LIMIT AHEAD (50)	-	C	1			
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS						
Conceptual Sketch: 02/03/21		Final Sketch Plan: --/--/--		Final Design: 30/08/21		
For tendering purposes only: --/--/-- Issued for construction: --/--/-- W.A.E.: --/--/--						

Scale

SCALE: A1 1:500, A3 1:1000

 R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph: 02 4201 4010	Designed by 	Client Project Officer: Kencho Choden Project Number: 30490	Project DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS THARWA DR - SITE 6	Drawing Title TRAFFIC CONTROL DEVICE PLAN - SHEET 6 OF 7
	Checked by 		Date 30/08/21	Drg. No. RG 20110
Approved by 			Revision 0	



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport Safety and Traffic Management ACT 1999
DATE	R.D. GOSSIP P/L	AUTHORSING SIGNATURE
CONSULTANT	DRAWING NAME	DATE
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	THARWA DR	
DATE	SCALE	
	1:500	

GUIDEPOST NOTES

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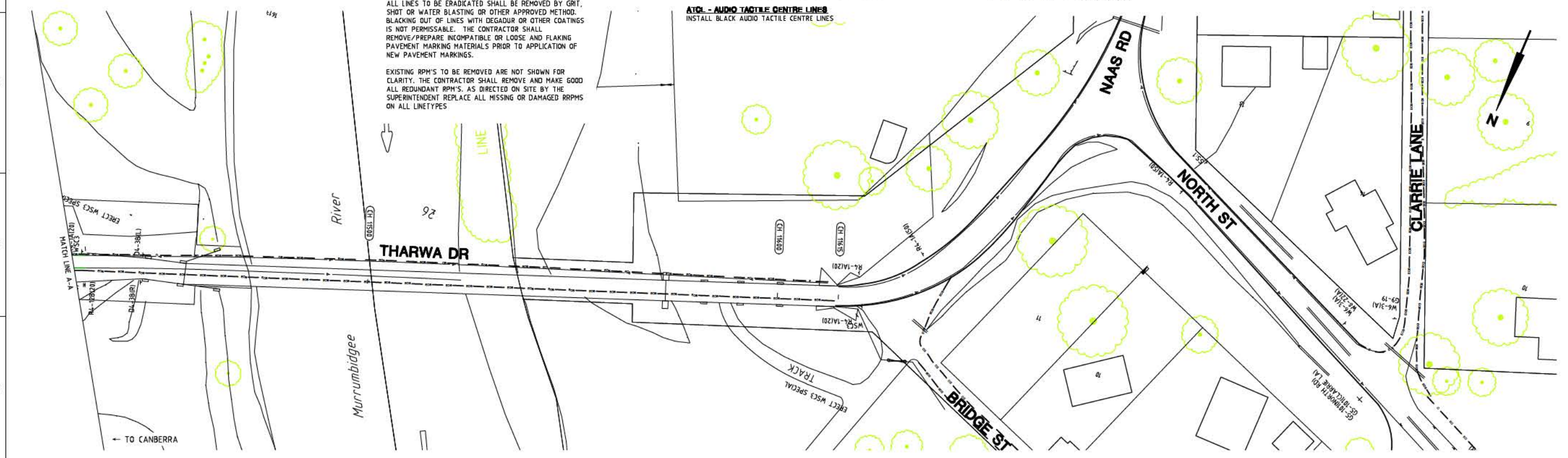
LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

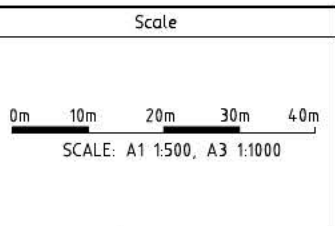
ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES



SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
RA-1 SPEED RESTRICTION (100)	-	B	2
RA-1 SPEED RESTRICTION (50)	-	B	2
SIGNS TO BE REMOVED			
RA-1 SPEED RESTRICTION (100)	-	B	1
G9-79 SPEED LIMIT AHEAD	-	B	1

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 62 4291 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT
Government

Project

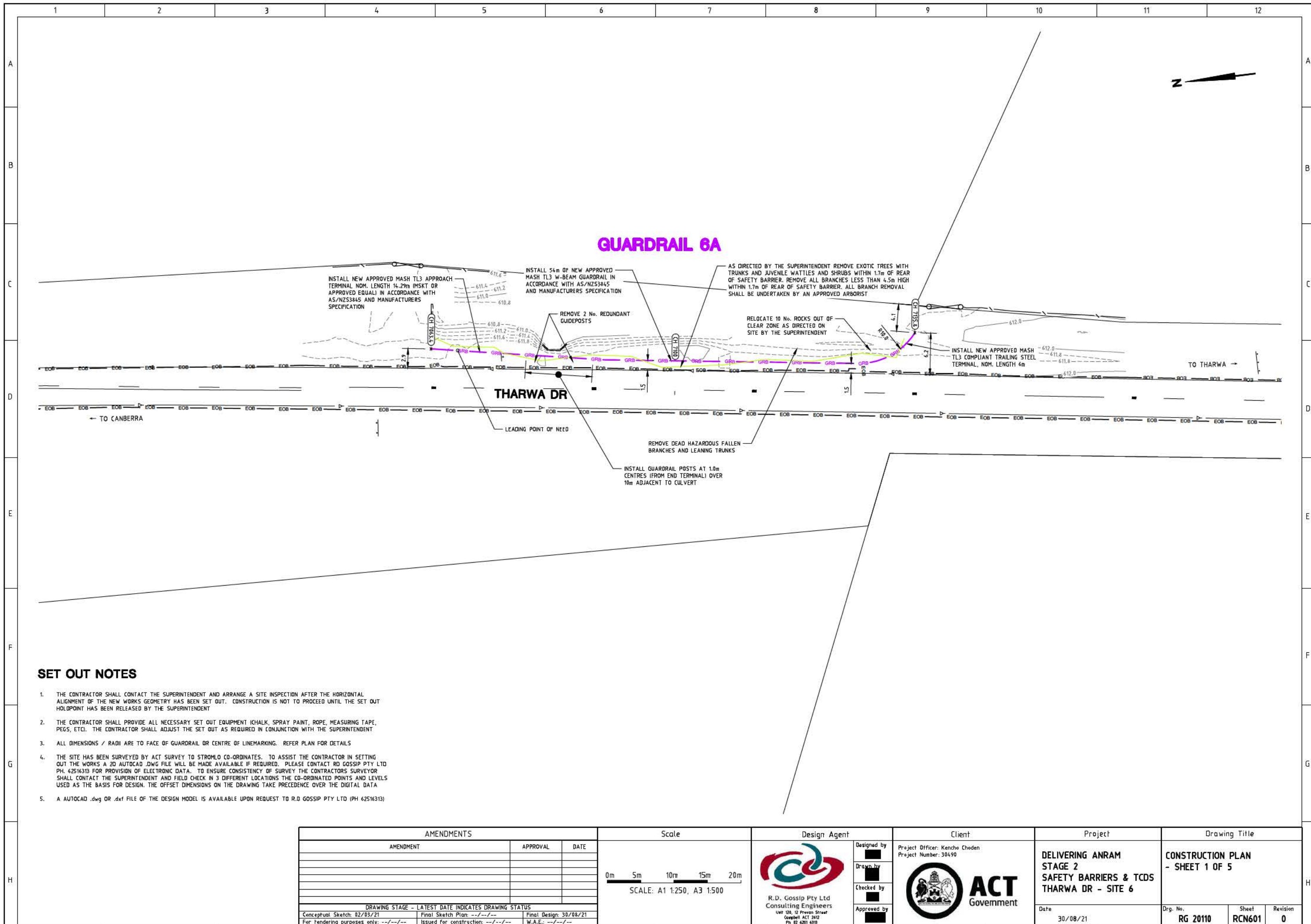
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
THARWA DR - SITE 6

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 7 OF 7

Drg. No. **RG 20110** Sheet **RTC607** Revision **0**



GUARDRAIL 6A

INSTALL NEW APPROVED MASH TL3 APPROACH TERMINAL NOM. LENGTH 14.29m (MSKT OR APPROVED EQUAL) IN ACCORDANCE WITH AS/NZS3845 AND MANUFACTURERS SPECIFICATION

INSTALL 54m OF NEW APPROVED MASH TL3 W-BEAM GUARDRAIL IN ACCORDANCE WITH AS/NZS3845 AND MANUFACTURERS SPECIFICATION

AS DIRECTED BY THE SUPERINTENDENT REMOVE EXOTIC TREES WITH TRUNKS AND JUVENILE WATTLES AND SHRUBS WITHIN 1.7m OF REAR OF SAFETY BARRIER. REMOVE ALL BRANCHES LESS THAN 4.5m HIGH WITHIN 1.7m OF REAR OF SAFETY BARRIER. ALL BRANCH REMOVAL SHALL BE UNDERTAKEN BY AN APPROVED ARBORIST

REMOVE 2 No. REDUNDANT GUIDEPOSTS

RELOCATE 10 No. ROCKS OUT OF CLEAR ZONE AS DIRECTED ON SITE BY THE SUPERINTENDENT

INSTALL NEW APPROVED MASH TL3 COMPLIANT TRAILING STEEL TERMINAL, NOM. LENGTH 6m

THARWA DR

← TO CANBERRA

→ TO THARWA

LEADING POINT OF NEED

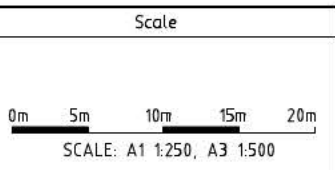
REMOVE DEAD HAZARDOUS FALLEN BRANCHES AND LEANING TRUNKS

INSTALL GUARDRAIL POSTS AT 1.0m CENTRES (FROM END TERMINAL) OVER 10m ADJACENT TO CULVERT

SET OUT NOTES

1. THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT AND ARRANGE A SITE INSPECTION AFTER THE HORIZONTAL ALIGNMENT OF THE NEW WORKS GEOMETRY HAS BEEN SET OUT. CONSTRUCTION IS NOT TO PROCEED UNTIL THE SET OUT HOLDPOINT HAS BEEN RELEASED BY THE SUPERINTENDENT
2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SET OUT EQUIPMENT (CHALK, SPRAY PAINT, ROPE, MEASURING TAPE, PEGS, ETC). THE CONTRACTOR SHALL ADJUST THE SET OUT AS REQUIRED IN CONJUNCTION WITH THE SUPERINTENDENT
3. ALL DIMENSIONS / RADII ARE TO FACE OF GUARDRAIL OR CENTRE OF LINEMARKING. REFER PLAN FOR DETAILS
4. THE SITE HAS BEEN SURVEYED BY ACT SURVEY TO STROMLO CO-ORDINATES. TO ASSIST THE CONTRACTOR IN SETTING OUT THE WORKS A 2D AUTOCAD .DWG FILE WILL BE MADE AVAILABLE IF REQUIRED. PLEASE CONTACT RD GOSSIP PTY LTD PH. 62516313 FOR PROVISION OF ELECTRONIC DATA. TO ENSURE CONSISTENCY OF SURVEY THE CONTRACTORS SURVEYOR SHALL CONTACT THE SUPERINTENDENT AND FIELD CHECK IN 3 DIFFERENT LOCATIONS THE CO-ORDINATED POINTS AND LEVELS USED AS THE BASIS FOR DESIGN. THE OFFSET DIMENSIONS ON THE DRAWING TAKE PRECEDENCE OVER THE DIGITAL DATA
5. A AUTOCAD .dwg OR .dxf FILE OF THE DESIGN MODEL IS AVAILABLE UPON REQUEST TO R.D GOSSIP PTY LTD (PH 62516313)

AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/-- Issued for construction: --/--/-- W.A.E.: --/--/--		



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Canberra ACT 2602
Ph. 62 420 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

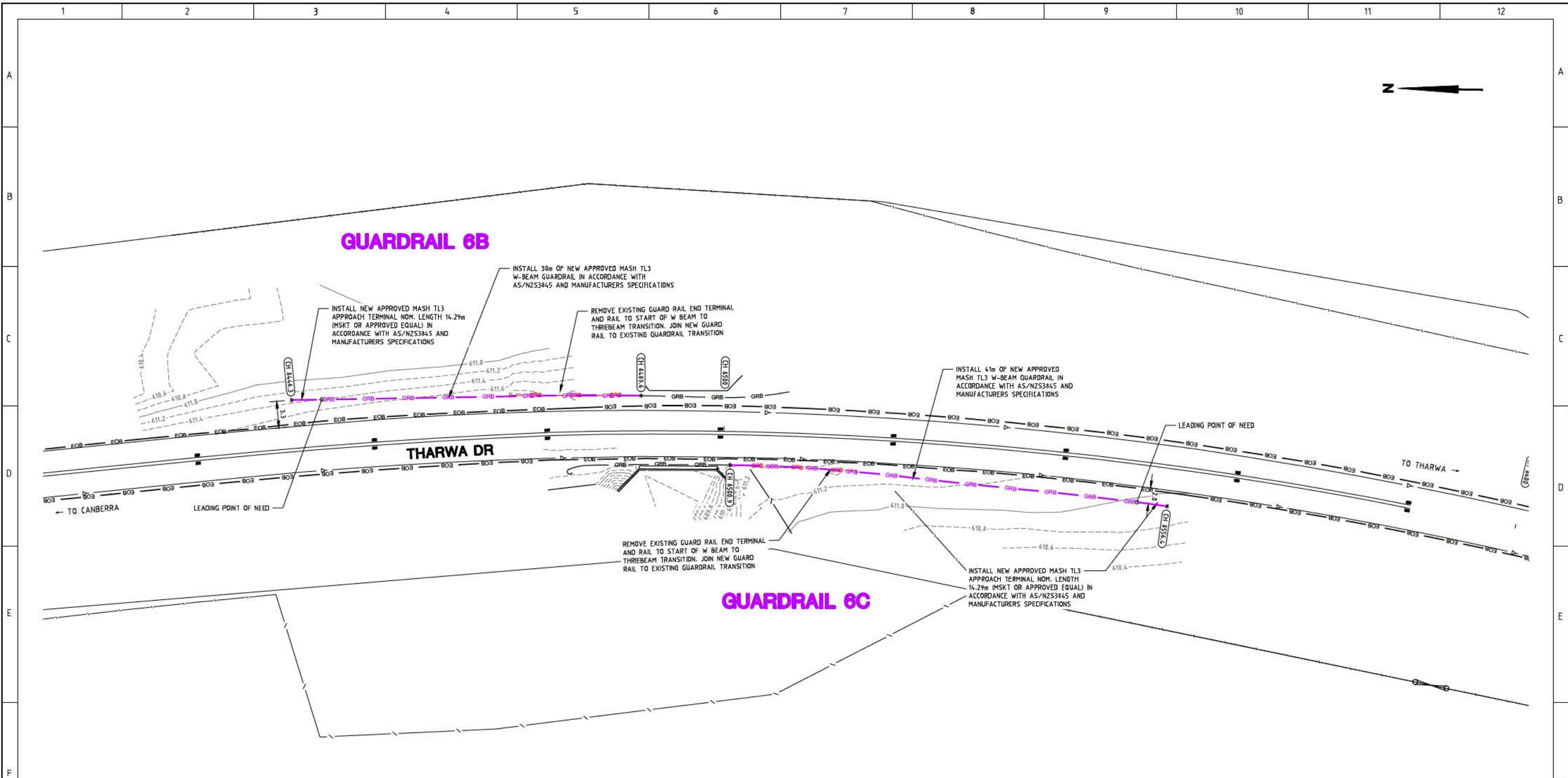
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
THARWA DR - SITE 6

Date: 30/08/21

Drawing Title

CONSTRUCTION PLAN
- SHEET 1 OF 5

Drg. No.	Sheet	Revision
RG 20110	RCN601	0

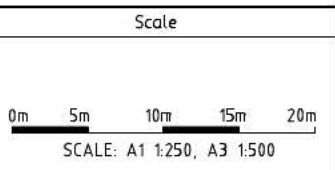


SET OUT NOTES

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AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
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Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph. 62 4201 4318

Designed by
Drawn by
Checked by
Approved by

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

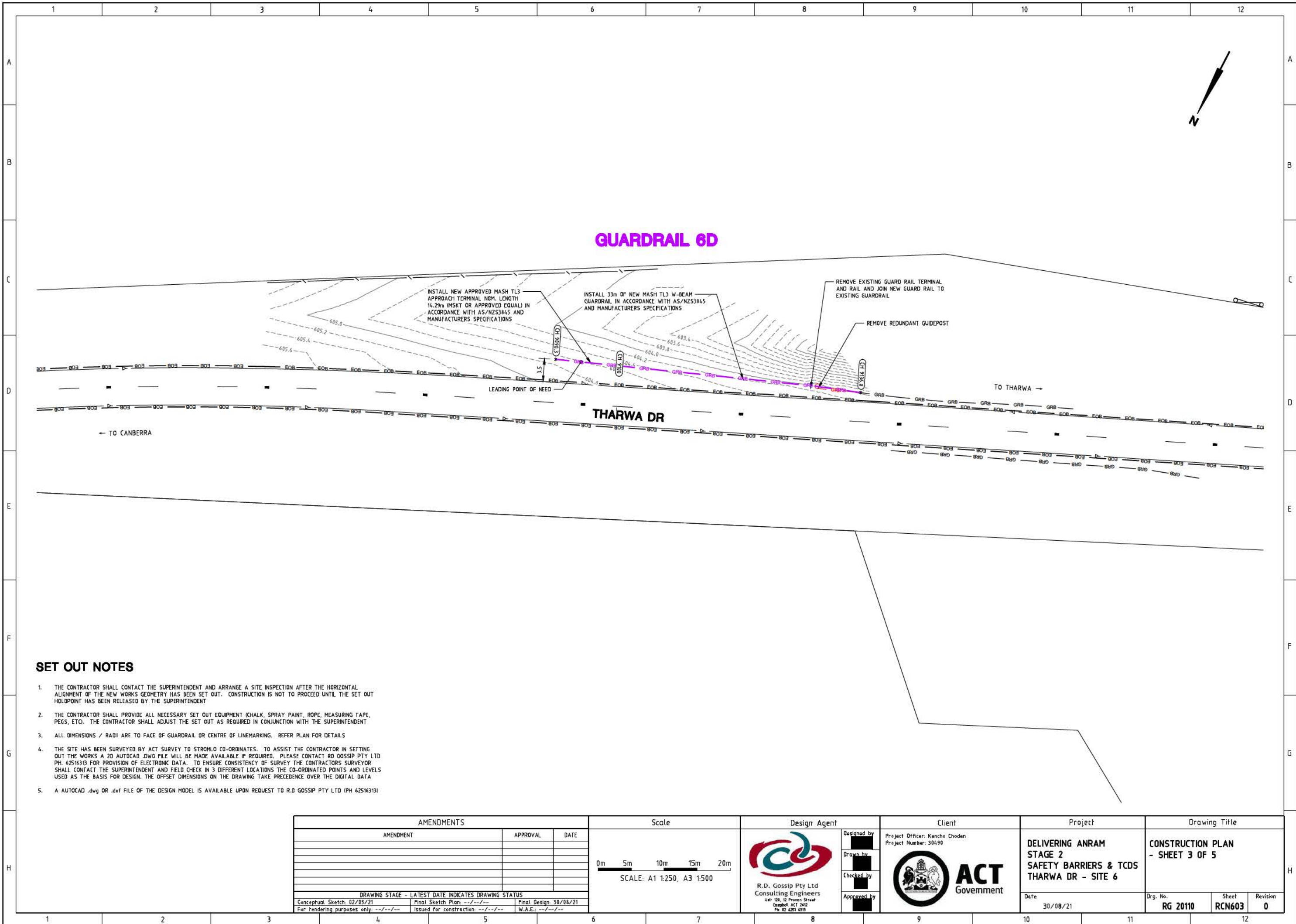
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
THARWA DR - SITE 6

Date: 30/08/21

Drawing Title

CONSTRUCTION PLAN
- SHEET 2 OF 5

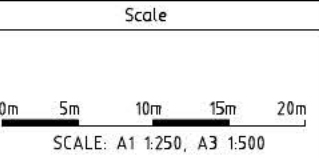
Drg. No.	Sheet	Revision
RG 20110	RCN602	0



SET OUT NOTES

1. THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT AND ARRANGE A SITE INSPECTION AFTER THE HORIZONTAL ALIGNMENT OF THE NEW WORKS GEOMETRY HAS BEEN SET OUT. CONSTRUCTION IS NOT TO PROCEED UNTIL THE SET OUT HOLDPOINT HAS BEEN RELEASED BY THE SUPERINTENDENT
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AMENDMENTS		
AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/-- Issued for construction: --/--/-- W.A.E.: --/--/--		



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 104, 12 Preston Street
Campbell ACT 2602
Ph: 62 4261 4318

Designed by: [Signature]
Drawn by: [Signature]
Checked by: [Signature]
Approved by: [Signature]

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS THARWA DR - SITE 6

Date: 30/08/21

Drawing Title

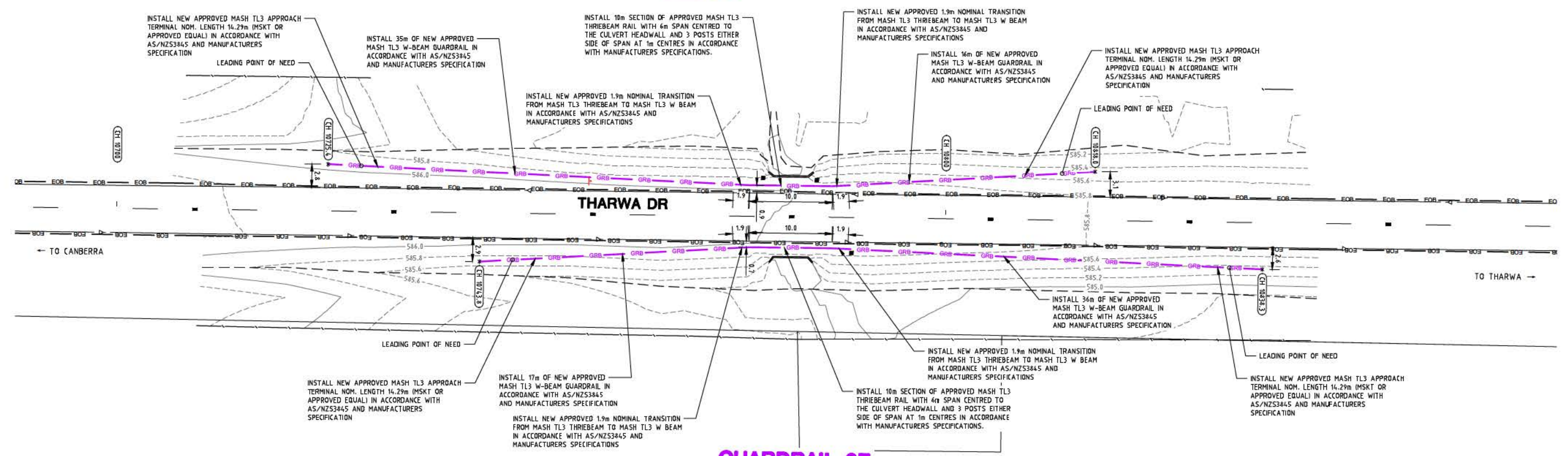
CONSTRUCTION PLAN - SHEET 3 OF 5

Drg. No.	Sheet	Revision
RG 20110	RCN603	0



GUARDRAIL 6E

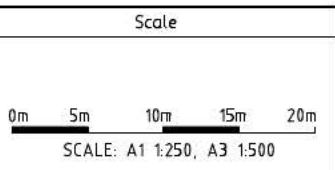
GUARDRAIL 6F



SET OUT NOTES

1. THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT AND ARRANGE A SITE INSPECTION AFTER THE HORIZONTAL ALIGNMENT OF THE NEW WORKS GEOMETRY HAS BEEN SET OUT. CONSTRUCTION IS NOT TO PROCEED UNTIL THE SET OUT HOLDPOINT HAS BEEN RELEASED BY THE SUPERINTENDENT
2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SET OUT EQUIPMENT (CHALK, SPRAY PAINT, ROPE, MEASURING TAPE, PEGS, ETC). THE CONTRACTOR SHALL ADJUST THE SET OUT AS REQUIRED IN CONJUNCTION WITH THE SUPERINTENDENT
3. ALL DIMENSIONS / RADII ARE TO FACE OF GUARDRAIL OR CENTRE OF LINEMARKING. REFER PLAN FOR DETAILS
4. THE SITE HAS BEEN SURVEYED BY ACT SURVEY TO STROMLO CO-ORDINATES. TO ASSIST THE CONTRACTOR IN SETTING OUT THE WORKS A 2D AUTOCAD .DWG FILE WILL BE MADE AVAILABLE IF REQUIRED. PLEASE CONTACT RD GOSSIP PTY LTD PH. 62516313 FOR PROVISION OF ELECTRONIC DATA. TO ENSURE CONSISTENCY OF SURVEY THE CONTRACTOR'S SURVEYOR SHALL CONTACT THE SUPERINTENDENT AND FIELD CHECK IN 3 DIFFERENT LOCATIONS THE CO-ORDINATED POINTS AND LEVELS USED AS THE BASIS FOR DESIGN. THE OFFSET DIMENSIONS ON THE DRAWING TAKE PRECEDENCE OVER THE DIGITAL DATA
5. A AUTOCAD .dwg OR .dxf FILE OF THE DESIGN MODEL IS AVAILABLE UPON REQUEST TO R.D GOSSIP PTY LTD (PH 62516313)

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Designed by:
 Drawn by:
 Checked by:
 Approved by:

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
THARWA DR - SITE 6

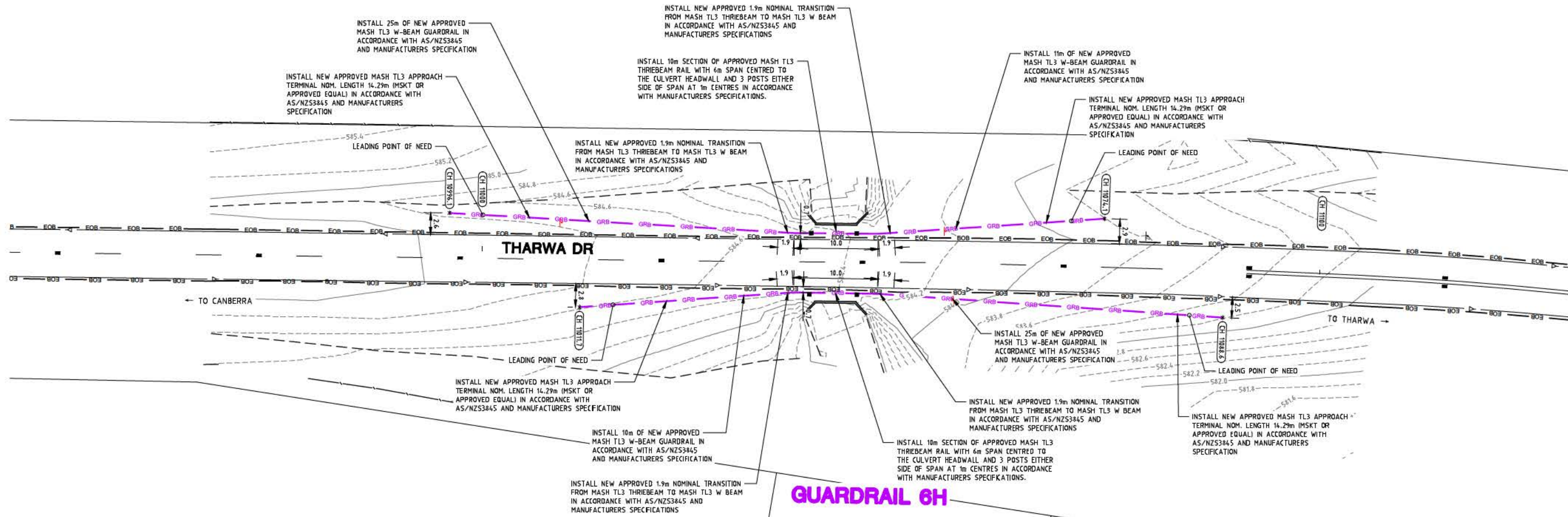
Date: 30/08/21

Drawing Title

CONSTRUCTION PLAN
- SHEET 4 OF 5

Drg. No. **RG 20110** Sheet **RCN604** Revision **0**

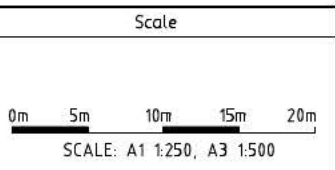
GUARDRAIL 6G



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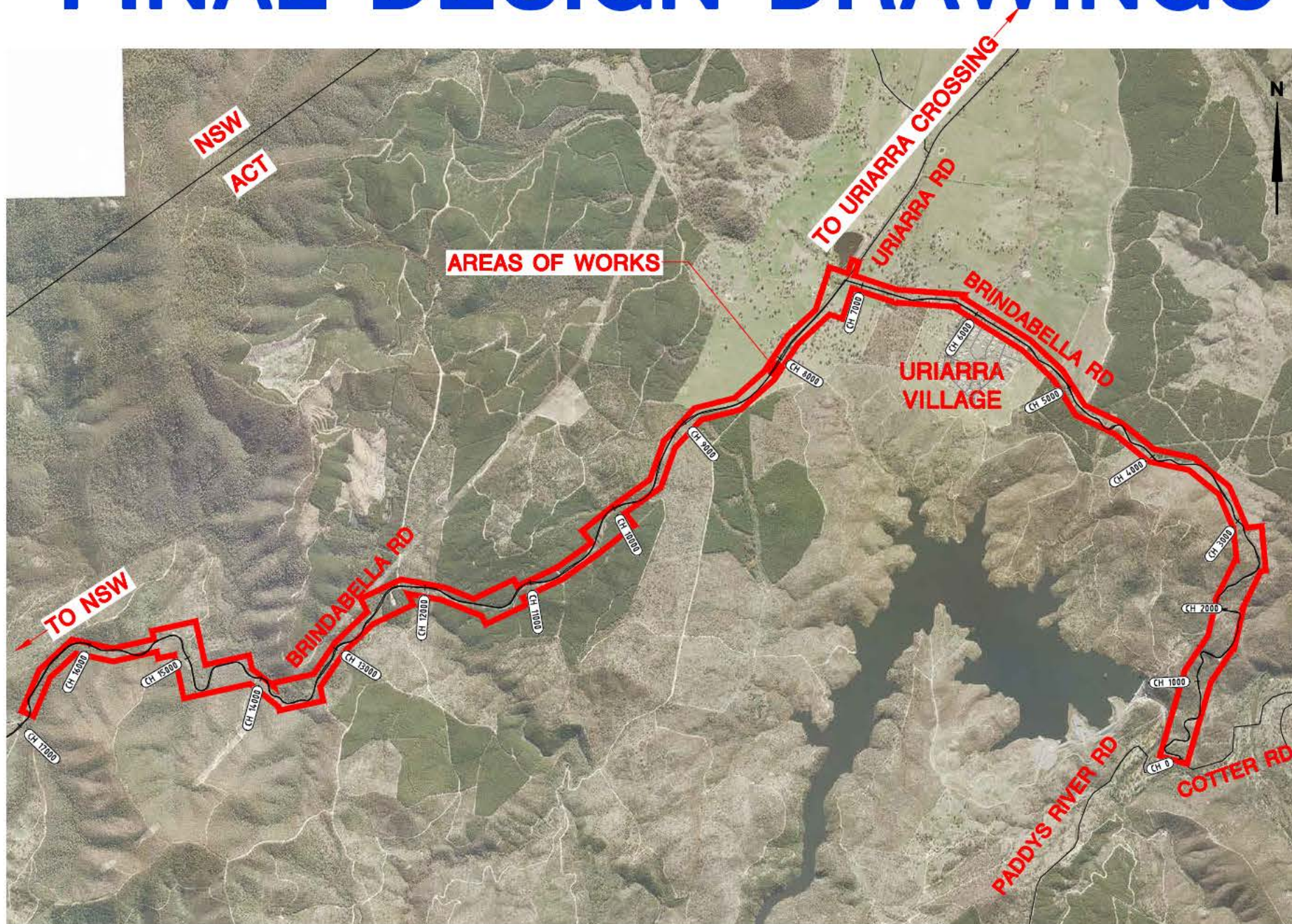
Date: 30/08/21

Drawing Title

CONSTRUCTION PLAN
- SHEET 5 OF 5

Drg. No. **RG 20110** Sheet **RCN605** Revision **0**

DELIVERING ANRAM - STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7 FINAL DESIGN DRAWINGS



LOCALITY PLAN

APPROVED BY:
M.Gordon
30/08/2021
REVISION 0
SHEET RC0701



ACT
Government



Consulting Engineers

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DRAWING NO.	SHEET NO.	DRAWING TITLE
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RG 20110	RDI701	DRAWING INDEX
RG 20110	RN0701	NOTES AND LEGEND
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AMENDMENTS	Scale	Design Agent	Client	Project	Drawing Title																											
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SPECIFICATION NOTES

1. ALL WORKS SHALL COMPLY WITH THE CURRENT EDITION OF THE ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS AND THE DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

SERVICES NOTES

- EXISTING SERVICES ARE NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL CLEARANCES FROM ALL SERVICE AUTHORITIES.
- THE CONTRACTOR SHALL LOCATE AND IF REQUIRED POTHOLE ALL SERVICES THAT CROSS OR ARE ADJACENT TO THE WORKS. THE CONTRACTOR SHALL ALLOW FOR PAYMENT OF STANDBY/CLEARANCE FEES AS REQUIRED BY SERVICE AUTHORITIES.
- FOR ALL CRITICAL GAS MAINS (STEEL OR 75mm DIAMETER OR GREATER OR THAT HAVE A MAXIMUM ALLOWABLE OPERATING PRESSURE OF 1050 kPa OR GREATER) THAT ARE WITHIN 15m OF A PROPOSED EXCAVATION, THE CONTRACTOR SHALL CONTACT JEMENA AND AGREE ON CONSTRUCTION PROCEDURES PRIOR TO EXCAVATION. ATTENDANCE ON SITE BY JEMENA AT THE CONTRACTORS EXPENSE MAY BE REQUIRED, CONTACT JEMENA ON 1300 503 237. IN CASE OF EMERGENCY REPORT DAMAGE TO GAS ASSETS ON 131 909

WASTE MANAGEMENT PLAN

- THE CONTRACTOR SHALL ENSURE THAT WASTE MATERIALS ARE DISPOSED OF AT AN APPROVED RECYCLING DEPOT.
- UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT TIPPING OF MATERIALS AT THE 'TIP FACE' SHALL NOT BE PERMITTED.

POLLUTION, SEDIMENT AND EROSION CONTROL NOTES

- PROVIDE TEMPORARY ENTRY CONTROL AND KERB INLET PROTECTION AT ALL EXISTING AND NEW ENTRANCES TO SUMPS AND UNCOVERED MANHOLES. PROVIDE GEOTEXTILE SEDIMENT TRAPS AND STRAW BALE CHECK DAMS IN DRAINAGE LINES. PROVIDE GEOTEXTILE FABRIC SEDIMENT CONTROL BARRIERS DOWNSTREAM OF ALL EARTHWORK LIMITS.
- PROVIDE STABILISED SERVICE AND ACCESS APRONS INTO SITE COMPOUND AND EGRESS POINTS ONTO PUBLIC ROADS.
- ALL EROSION CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED FOR THE DURATION OF THE CONTRACT AND SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE SUPERINTENDENT.
- THE CONTRACTOR MAY BE REQUIRED TO OBTAIN AN ENVIRONMENTAL AUTHORISATION AND IS RESPONSIBLE FOR THE APPLICATION, APPROVAL AND ANY ASSOCIATED FEES.
- THE CONTRACTOR SHALL TAKE THE STEPS THAT ARE PRACTICABLE AND REASONABLE TO PREVENT OR MINIMISE ENVIRONMENTAL HARM OR ENVIRONMENTAL NUISANCE CAUSED, OR LIKELY TO BE CAUSED, BY ALL CONSTRUCTION ACTIVITIES.
- THE ABOVE REQUIREMENTS ARE ADDITIONAL / SUPPLEMENTARY TO ANY DIRECTION / REQUIREMENT GIVEN BY THE EPA.

TEMPORARY TRAFFIC MANAGEMENT CONCEPT NOTES

- ALL TRAFFIC MOVEMENTS ARE TO BE MAINTAINED AT ALL TIMES
- TEMPORARY TRAFFIC MANAGEMENT DEVICES ARE TO BE IN ACCORDANCE WITH AS 1742.3-2019.
- ALL WORKERS SHALL WEAR HIGH VISIBILITY EXTERNAL CLOTHING IN ACCORDANCE WITH AS 1742.3-2019.
- THE CONTRACTOR SHALL SUBMIT A TTM PLAN TO THE SUPERINTENDENT FOR ENDORSEMENT AND THEN SUBMIT TO ROADS ACT AND TRANSPORT FOR NSW FOR AUTHORISATION. AMENDMENTS TO THE DRAWINGS SHALL FOLLOW THE SAME ENDORSEMENT AND AUTHORISATION PROCESS.
- THE CONTRACTOR SHALL PROVIDE INDIVIDUAL TTM PLANS FOR BOTH WORKING AND NON WORKING HOURS.
- THE CONTRACTOR SHALL ENSURE THAT ALL SIGNS THAT ARE TO BE COVERED ARE COVERED WITH AN APPROVED DENSE OPAQUE MATERIAL (NOT HESSIAN, SHADE CLOTH OR THE LIKE). THE COVERINGS SHALL COVER THE ENTIRE SIGN FACE AND BE SECURELY FIXED TO PREVENT DISLODGEEMENT BY WIND OR VANDALS.
- PROVIDE PEDESTRIAN CONTAINMENT FENCE AROUND THE WORK SITE PERIMETER.

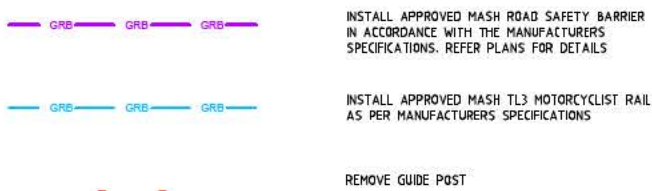
LANDSCAPE, VERGE, TREE MANAGEMENT AND IRRIGATION NOTES

- ALL LANDSCAPE WORKS ARE TO BE IN ACCORDANCE AND COMPLY WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS SEPTEMBER 2002 - SECTION 9: LANDSCAPE.
- ANY WORKS THAT ALTER OR DISTURB GRASSED AREAS OR OTHER OPEN AREAS IN PUBLIC LAND MUST BE REINSTATED TO MATCH ADJACENT EXISTING CONDITIONS BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS SEPTEMBER 2002 - SECTION 9: LANDSCAPE AND TO THE APPROVAL OF TRANSPORT CANBERRA AND CITY SERVICES.
- EXCAVATION THAT OCCURS WITHIN THE DRIP ZONE OF A TREE MUST BE APPROVED TO MEET THE REQUIREMENTS OF TREE PROTECTION AND OTHER ACT LEGISLATION - REFER ALSO TO AS 4970 - 2009 PROTECTION OF TREES AT DEVELOPMENT SITES. ANY EXCAVATION IS TO BE RESTRICTED TO ONE SIDE OF THE TREE ONLY. WHERE EXCAVATION IS APPROVED THE FOLLOWING MEASURES ARE TO BE ADOPTED FOR TREE PROTECTION:
 - DO NOT TEAR ROOTS FROM THE GROUND - CUT CLEANLY AROUND THE EXCAVATION PERIMETER EXPOSE THE ROOTS WITH NON DAMAGING EXCAVATION EG HYDRO JETTING ON LOW PRESSURE TO ENSURE NO DAMAGE TO THE ROOTS (CAMBIUM LAYER & THEN CUTTING CLEANLY WITH SHARP HAND PRUNING TOOLS, UNLESS APPROVED BY A TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES OFFICER DO NOT SEVER LARGE ROOTS (GREATER THAN 30mm DIA.) CLOSER THAN HALFWAY FROM THE DRIP LINE TO THE TRUNK. ALL ROOTS MUST BE CUT CLEANLY WITH EQUIPMENT SPECIFICALLY DESIGNED TO CUT ROOTS OR OTHER APPROVED PRUNING EQUIPMENT.
 - ROOTS EXPOSED DURING EXCAVATION MUST BE PROTECTED FROM DESICCATION AND KEPT LIGHTLY WATERED OR COVERED WITH HESSIAN WHICH MUST BE KEPT MOIST. BACKFILL EXCAVATION ASAP.
 - TRUNK PROTECTION (BOARDS) MUST BE IMPLEMENTED.
 - UNDER BORING MAY BE AN OPTION.
 - WATER TREES WHICH HAVE HAD DISTURBANCE TO THEIR ROOT ZONE. BASED ON SEASONAL CONDITIONS THE AMOUNT AND FREQUENCY OF WATER NEEDS TO BE ADAPTED TO SUIT THE TREES REQUIREMENT.
 - DUE TO TREE STABILITY ISSUES THE PROJECT SUPERINTENDENT/ARBORIST AND TRANSPORT CANBERRA AND CITY SERVICES (PH: 6207 5478) SHALL BE CONTACTED IF ANY ROOT GREATER THAN 30mm DIAMETER IS PROPOSED TO BE SEVERED. THE CONTRACTOR SHALL LEAVE THE ROOT EXPOSED UNTIL DIRECTED OTHERWISE BY THE SUPERINTENDENT/ARBORIST &/OR TRANSPORT CANBERRA AND CITY SERVICES. ALL ROOTS SMALLER THAN 30mm DIAMETER SHALL BE CUT BY AN APPROVED ARBORIST
- THE CONTRACTOR SHALL ONLY EXCAVATE WITHIN THE AREA REQUIRED FOR THE PROPOSED WORKS AS AGREED BY TRANSPORT CANBERRA AND CITY SERVICES.
- THE CONTRACTOR SHALL ENSURE THAT ALL HOT EXHAUST FUMES FROM PLANT AND EQUIPMENT USED ON THE SITE ARE DIRECTED AWAY FROM THE EXISTING TREE CANOPIES.
- ALL MACHINERY MUST REMAIN CLEAR OF TREE CANOPIES (CANOPY +2m) - NO CANOPY PRUNING TO BE UNDERTAKEN FOR CLEARANCE UNLESS APPROVED BY TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES SECTION. TREE PROTECTION MEASURES THAT MEET THE REQUIREMENTS OF AS 4970 - 2009 MUST BE SET UP TO PREVENT ACCESS/COMPACTON TO THE AREA BENEATH TREE CANOPIES, UNLESS OTHERWISE APPROVED BY TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES SECTION, DURING WORKS FOR MACHINERY, VEHICLES, AND MATERIALS ETC.
- THE CONTRACTOR SHALL ALLOW FOR HYDRO EXCAVATION USING AN APPROVED LOW PRESSURE (1500kPa WITHIN 3m OF TREE TRUNKS, 2000kPa ELSEWHERE) MACHINE AS NECESSARY TO ENSURE COMPLIANCE WITH THE ABOVE REQUIREMENTS.
- WHERE DISTURBED BY THE WORKS THE CONTRACTOR SHALL ADJUST ALL SPRINKLERS, PIPE WORK AND WIRING AS DIRECTED BY THE SUPERINTENDENT. ALL WORK SHALL BE UNDERTAKEN BY AN APPROVED IRRIGATION SUB-CONTRACTOR AT THE CONTRACTORS EXPENSE.
- ALL TREE AND ROOT TRIMMING/REMOVAL SHALL BE UNDERTAKEN BY A QUALIFIED ARBORIST UPON APPROVAL BY TRANSPORT CANBERRA AND CITY SERVICES, URBAN TREESCAPES SECTION AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL ENSURE ALL TREE PROTECTION FENCING IS ERECTED PRIOR TO COMMENCEMENT OF ANY SITE CONSTRUCTION WORKS AND IS TO REMAIN FOR THE ENTIRE DURATION OF THE WORKS. THE CONTRACTOR SHALL ENSURE THAT NO VEHICULAR PARKING, STORAGE AND STOCKPILING WITHIN TREE PROTECTION FENCING OCCURS THROUGHOUT THE CONTRACT DURATION.

SAFETY BARRIER NOTES

- ALL SAFETY BARRIER INSTALLATIONS SHALL BE IN ACCORDANCE WITH
 - AS 3845.1-2015 ROAD SAFETY BARRIER SYSTEMS AND DEVICES - PART 1 - ROAD SAFETY BARRIER SYSTEMS
 - DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS
 - AUSTROADS GUIDE TO ROAD DESIGN PART 6 ROADSIDE DESIGN, SAFETY AND BARRIERS
- THE CONTRACTOR SHALL FIELD CHECK THE PROPOSED SAFETY BARRIER POST LOCATIONS TO ENSURE THAT THERE IS NO CONFLICT WITH OTHER ASSETS, FINISHES, FIXTURES AND FITTINGS. THE PROPOSED DESIGN IS TO BE ACCURATELY FIELD CHECKED PRIOR TO MANUFACTURE OF THE NEW SAFETY BARRIER TO ENSURE NO CONFLICT.
- THE CONTRACTOR SHALL UNDERTAKE POST DEFLECTION TESTING TO MEET TfNSW REQUIREMENTS. A MINIMUM OF 5% OF POSTS SHALL BE TESTED AND AT LEAST 2 POSTS ON EACH LENGTH OF SAFETY BARRIER. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE SUPERINTENDENT ON WHICH POSTS ARE TO BE TESTED.

CONSTRUCTION LEGEND



SAFETY NOTES

- GENERAL NOTES FOR ALL PHASES OF THE PROJECTS LIFE
 - THE CONTRACTOR SHALL COMPLY WITH THE CURRENT WORK HEALTH AND SAFETY ACT, REGULATIONS AND INDUSTRY CODES AND PRACTICE GUIDELINES.
 - SERVICES
 - SERVICE LOCATION PRIOR TO COMMENCEMENT OF WORKS ON SITE.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL SERVICE CLEARANCES (INCLUDING SERVICE TIE LOCATIONS) FROM ALL SERVICE AUTHORITIES.
 - THE CONTRACTOR SHALL HYDRO-POTHOLE ALL SERVICES THAT CROSS OR ARE ADJACENT TO THE PROPOSED WORKS TO DETERMINE THE VERTICAL AND HORIZONTAL ALIGNMENT.
 - THE CONTRACTOR SHALL IDENTIFY ALL OVERHEAD SERVICES WITHIN THE WORK SITE AREA AND PROTECT PLANT.
 - FOR ALL GAS MAINS 75mm DIAMETER OR GREATER THAT HAVE A PRESSURE OF 1050 kPa OR GREATER THAT ARE WITHIN 15m OF A PROPOSED EXCAVATION, THE CONTRACTOR SHALL CONTACT ZNX ON (02) 6203 0660 AND AGREE ON CONSTRUCTION PROCEDURES PRIOR TO EXCAVATION. ATTENDANCE ON SITE BY ZNX AT THE CONTRACTORS EXPENSE MAY BE REQUIRED.
 - WORKS NEAR SERVICES AND STRUCTURES.
 - AVOID THE USE OF HEAVY MACHINERY OR HEAVY VIBRATING LOADS NEAR LARGE TRUNK GAS, WATER SUPPLY, COMMUNICATIONS INFRASTRUCTURE, RETAINING WALLS AND SUSPENDED SLABS. THE CONTRACTOR SHALL KEEP CLEAR OF ALL OVERHEAD SERVICES WITHIN THE WORK SITE AREA.
 - TEMPORARY TRAFFIC MANAGEMENT: (AS1742.3)
 - ALL TEMPORARY TRAFFIC MANAGEMENT DEVICES ARE TO BE IN ACCORDANCE WITH AS 1742.3-2009.
 - ALL WORKERS SHALL WEAR HIGH VISIBILITY EXTERNAL CLOTHING IN ACCORDANCE WITH AS 1742.3-2009.
 - ALL SIGNS AND DEVICES SHALL BE ERECTED WITHIN THE LINE OF SIGHT OF THE ROAD USER. THEY SHALL NOT BE OBTAINED BY VEGETATION OR PARKED VEHICLES AND SHALL BE POSITIONED WHERE THEY DO NOT BECOME A HAZARD TO PEDESTRIANS OR VEHICLES.
 - THE CONTRACTOR SHALL ASSESS ANY EXCAVATIONS GREATER THAN 500mm IN DEPTH AND PROVIDE PROTECTION AND DELINEATION IN ACCORDANCE WITH TABLE E1 OF AS 1742.3.
 - THE CONTRACTOR SHALL SUBMIT TTM PLANS TO THE SUPERINTENDENT FOR ENDORSEMENT AND THEN SUBMIT TO ROADS ACT FOR APPROVAL. AMENDMENTS TO THE TTM PLANS SHALL FOLLOW THE SAME ENDORSEMENT AND APPROVAL PROCESS.
 - WHERE EXISTING OR NEW TTM SIGNAGE (BY OTHERS) CONFLICTS WITH THE PROPOSED TTM DEVICES, THE CONTRACTOR SHALL LIAISE WITH ROADS ACT AND ADJUST THE TTM SIGNAGE AS REQUIRED TO ENSURE THE TTM DESIGN INTENT IS MET AND REMOVE THE CONFLICT.
 - ALL STAR PICKETS SHALL BE CAPPED AT ALL TIMES.
 - NO WORK IS TO BE UNDERTAKEN IN POOR VISIBILITY CONDITIONS (BAD WEATHER, FOG, DUST, SMOKE, SUN GLARE, DARKNESS ETC).
 - MOBILE PHONES SHALL ONLY BE USED IN A PROTECTED AREA OR 10m CLEAR OF ADJACENT VEHICULAR TRAFFIC AND CONSTRUCTION VEHICLES. MOBILE PHONES SHALL NOT BE USED WHEN OPERATING ANY PLANT OR EQUIPMENT.
 - THE CONTRACTOR SHALL IDENTIFY AND KEEP CLEAR OF ALL OVERHEAD OBSTRUCTIONS WITHIN THE WORK SITE AREA (TREES, BRIDGES ETC).
 - ALL EXPOSED VERTICAL REINFORCEMENT BARS SHALL BE COGGED.
- CONSTRUCTION PHASE
 - THE CONTRACTOR SHALL UNDERTAKE A SITE SPECIFIC RISK ASSESSMENT PRIOR TO UNDERTAKING ANY WORKS ON THE SITE.
 - SITE CONSTRAINTS IDENTIFIED AS 'NON STANDARD' WITHIN THE SCOPE OF THE PROJECT ARE AS FOLLOWS:
 - PROVIDE PEDESTRIAN PROTECTION FENCING AROUND ALL EXPOSED EXCAVATIONS.
 - EXISTING SERVICES HAVE BEEN INSTALLED UNDER OLD STANDARDS AND MAY HAVE LESS COVER THAN CURRENT STANDARDS. ALL EXCAVATIONS GREATER THAN 300mm DEEP SHOULD BE HYDRO EXCAVATED.
 - ASBESTOS MAY BE PRESENT IN SUBGRADE. ASBESTOS SHALL BE RESPONDED TO AS A WHS INCIDENT AND REMOVED BY A LICENSED SUB-CONTRACTOR.
- MAINTENANCE PHASE
 - THE CONTRACTOR SHALL UNDERTAKE A SITE SPECIFIC RISK ASSESSMENT PRIOR TO UNDERTAKING MAINTENANCE ON THE SITE AS SITE CONDITIONS MAY VARY FROM THE ORIGINAL CONSTRUCTION PHASE (VEGETATION GROWTH, ADDITIONAL SERVICE INSTALLATIONS ETC).
 - SITE CONSTRAINTS IDENTIFIED AS 'NON STANDARD' WITHIN THE SCOPE OF THE PROJECT ARE AS FOLLOWS:
 - PROVIDE PEDESTRIAN PROTECTION FENCING AROUND ALL EXPOSED EXCAVATIONS.
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 - ASBESTOS MAY BE PRESENT IN SUBGRADE. ASBESTOS SHALL BE RESPONDED TO AS A WHS INCIDENT AND REMOVED BY A LICENSED SUB-CONTRACTOR.
- DEMOLITION PHASE
 - THE CONTRACTOR SHALL UNDERTAKE A SITE SPECIFIC RISK ASSESSMENT PRIOR TO UNDERTAKING DEMOLITION ON THE SITE AS SITE CONDITIONS MAY VARY FROM THE ORIGINAL CONSTRUCTION PHASE (VEGETATION GROWTH, ADDITIONAL SERVICE INSTALLATIONS ETC).
 - SITE CONSTRAINTS IDENTIFIED AS 'NON STANDARD' WITHIN THE SCOPE OF THE PROJECT ARE AS FOLLOWS:
 - PROVIDE PEDESTRIAN PROTECTION FENCING AROUND ALL EXPOSED EXCAVATIONS.
 - EXISTING SERVICES HAVE BEEN INSTALLED UNDER OLD STANDARDS AND MAY HAVE LESS COVER THAN CURRENT STANDARDS. ALL EXCAVATIONS GREATER THAN 300mm DEEP SHOULD BE HYDRO EXCAVATED.
 - ASBESTOS MAY BE PRESENT IN SUBGRADE. ASBESTOS SHALL BE RESPONDED TO AS A WHS INCIDENT AND REMOVED BY A LICENSED SUB-CONTRACTOR.

AMENDMENTS			Scale	Design Agent	Client	Project	Drawing Title				
AMENDMENT	APPROVAL	DATE					NOTES AND LEGEND				
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS				R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph: 62 4201 4318	ACT Government	Project Officer: Kencho Choden Project Number: 30490	DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7	Date	Drg. No.	Sheet	Revision
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21						30/08/21	RG 20110	N0701	0
For tendering purposes only: --/--/--											

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
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GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS WITHIN THE SEALED SECTION OF BRINDABELLA ROAD. ENSURE Z GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

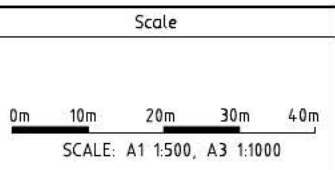
ATCL - AUDIO TACTILE CENTRE LINES

INSTALL BLACK AUDIO TACTILE CENTRE LINES

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT:	DRAWING NAME	AUTHORISING SIGNATURE
NAME:	DELIVERING ANRAM	DATE:
SIGNATURE:	BRINDABELLA RD	DOCUMENT NUMBER:
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE				
DESCRIPTION	HAND	SIZE	NO. OF.	
SIGNS TO BE ERECTED				
DL-6	CHEVRON ALIGNMENT MARKER	R/L	B	2,1
RL-1	SPEED RESTRICTION (60)	-	B	1
W1-7	HAIRPIN BEND	R	B	1
W2-3	T INTERSECTION	-	B	1
W3-1	STOP SIGN AHEAD	-	B	1
W8-2	ADVISORY SPEED	35	B	2
SIGNS TO BE REMOVED				
DL-6	CHEVRON ALIGNMENT MARKER	R/L	B	1,1
W1-7	HAIRPIN BEND	R	B	1
W2-3	T INTERSECTION	-	B	1
W8-2	ADVISORY SPEED	35	B	2

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Canberra ACT 2602
Ph: 62 4291 4918

Client

ACT Government

Project

DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7


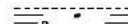



Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 1 OF 30

Drg. No. RG 20110
Sheet RTC701
Revision 0

LEGEND

-  ERADICATE LINE MARKING
-  EXISTING LINE MARKING
-  APPLY NEW LINE MARKING
-  INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
-  EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04.

ATCL - AUDIO TACTILE CENTRE LINES

INSTALL BLACK AUDIO TACTILE CENTRE LINES

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NOTES

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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE:
CONSULTANT:	DRAWING NAME	DATE:
NAME:	DELIVERING ANRAM	DOCUMENT NUMBER:
SIGNATURE:	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

REFER DRG RG 2010 SHEET RTC701 FOR CONTINUATION

REFER DRG RG 2010 SHEET RTC703 FOR CONTINUATION



← TO CANBERRA

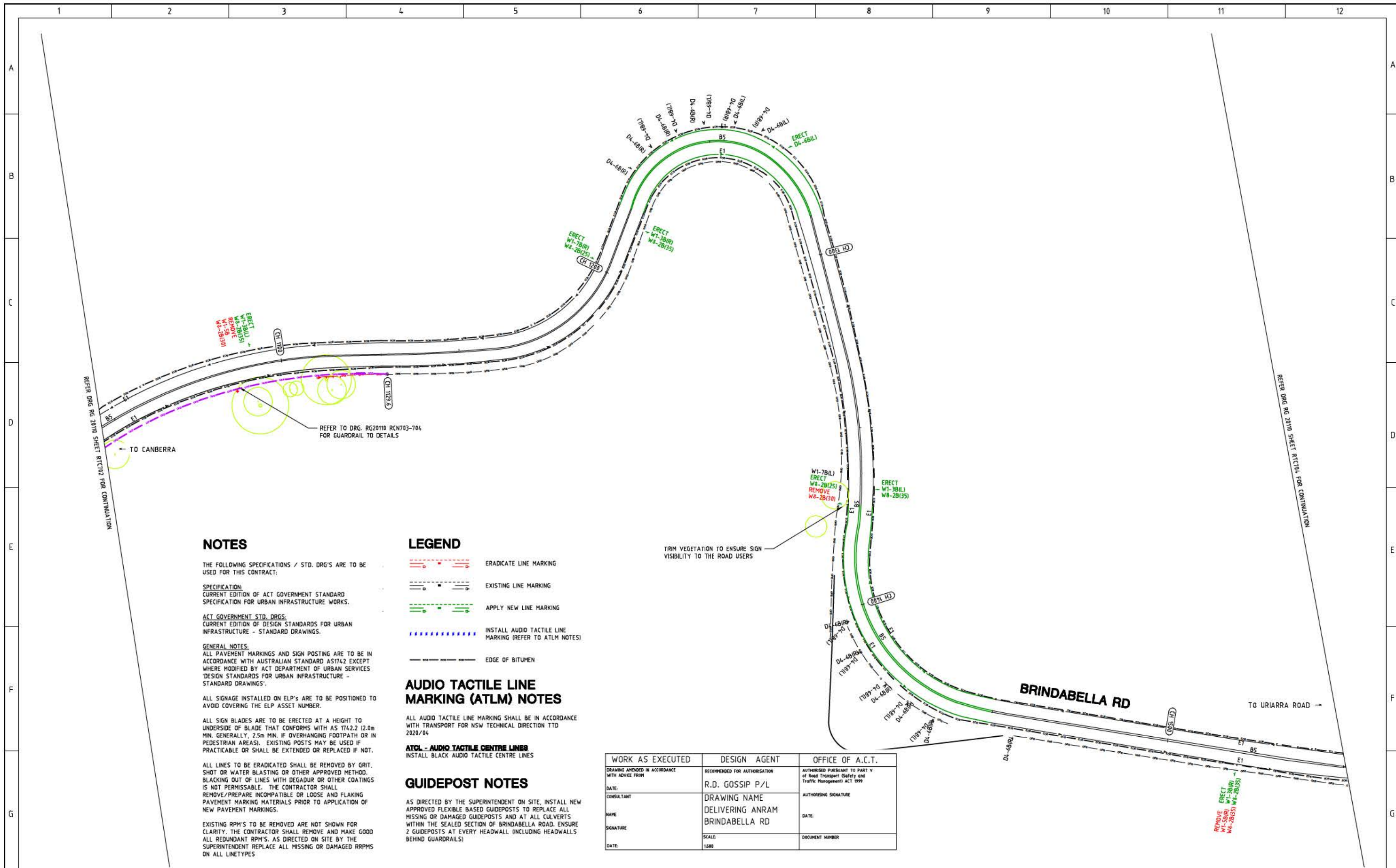
TO URIARRA ROAD →

REFER TO DRG. RG20110 RCN702-703 FOR GUARDRAIL 7C DETAILS

REFER TO DRG. RG20110 RCN703-04 FOR GUARDRAIL 7D DETAILS

BRINDABELLA RD

SIGN SCHEDULE			AMENDMENTS			Scale 0m 10m 20m 30m 40m SCALE: A1 1:500, A3 1:1000	 R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph: 02 4291 4318	Client Project Officer: Kencho Choden Project Number: 30490 	Project DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7	Drawing Title		
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL					DATE	TRAFFIC CONTROL DEVICE PLAN - SHEET 2 OF 30	
SIGN SCHEDULE			AMENDMENTS			Date			Drg. No.			
SIGN SCHEDULE			AMENDMENTS			30/08/21			RG 20110			
SIGN SCHEDULE			AMENDMENTS			Sheet			Revision			
SIGN SCHEDULE			AMENDMENTS			RTC702			0			
SIGN SCHEDULE			AMENDMENTS			Revision						



NOTES

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LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

GUIDEPOST NOTES

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TRIM VEGETATION TO ENSURE SIGN VISIBILITY TO THE ROAD USERS

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION:	AUTHORIZED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORIZING SIGNATURE:
CONSULTANT:	DRAWING NAME:	DATE:
NAME:	DELIVERING ANRAM	DOCUMENT NUMBER:
SIGNATURE:	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

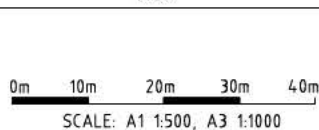
SIGN SCHEDULE

DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
W1-3 CURVE	L,R	B	2,2
W1-7 HAIRPIN BEND	R	B	1
W8-2 ADVISORY SPEED	25,35	B	2,4
SIGNS TO BE REMOVED			
W1-5 WINDING ROAD	L,R	B	1,1
W8-2 ADVISORY SPEED	30,35	B	2,1

AMENDMENTS

AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/-- Issued for construction: --/--/-- W.A.E.: --/--/--		

Scale



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Pevon Street
Campbell ACT 2602
Ph. 02 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 3 OF 30

Drg. No. RG 20110
Sheet RTC703
Revision 0

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS.
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AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04.

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT	DRAWING NAME	AUTHORIZING SIGNATURE
NAME	DELIVERING ANRAM	DATE:
SIGNATURE	BRINDABELLA RD	DOCUMENT NUMBER
DATE:	SCALE:	
	1:500	

LEGEND

	ERADICATE LINE MARKING
	EXISTING LINE MARKING
	APPLY NEW LINE MARKING
	INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
	EDGE OF BITUMEN

GUIDEPOST NOTES

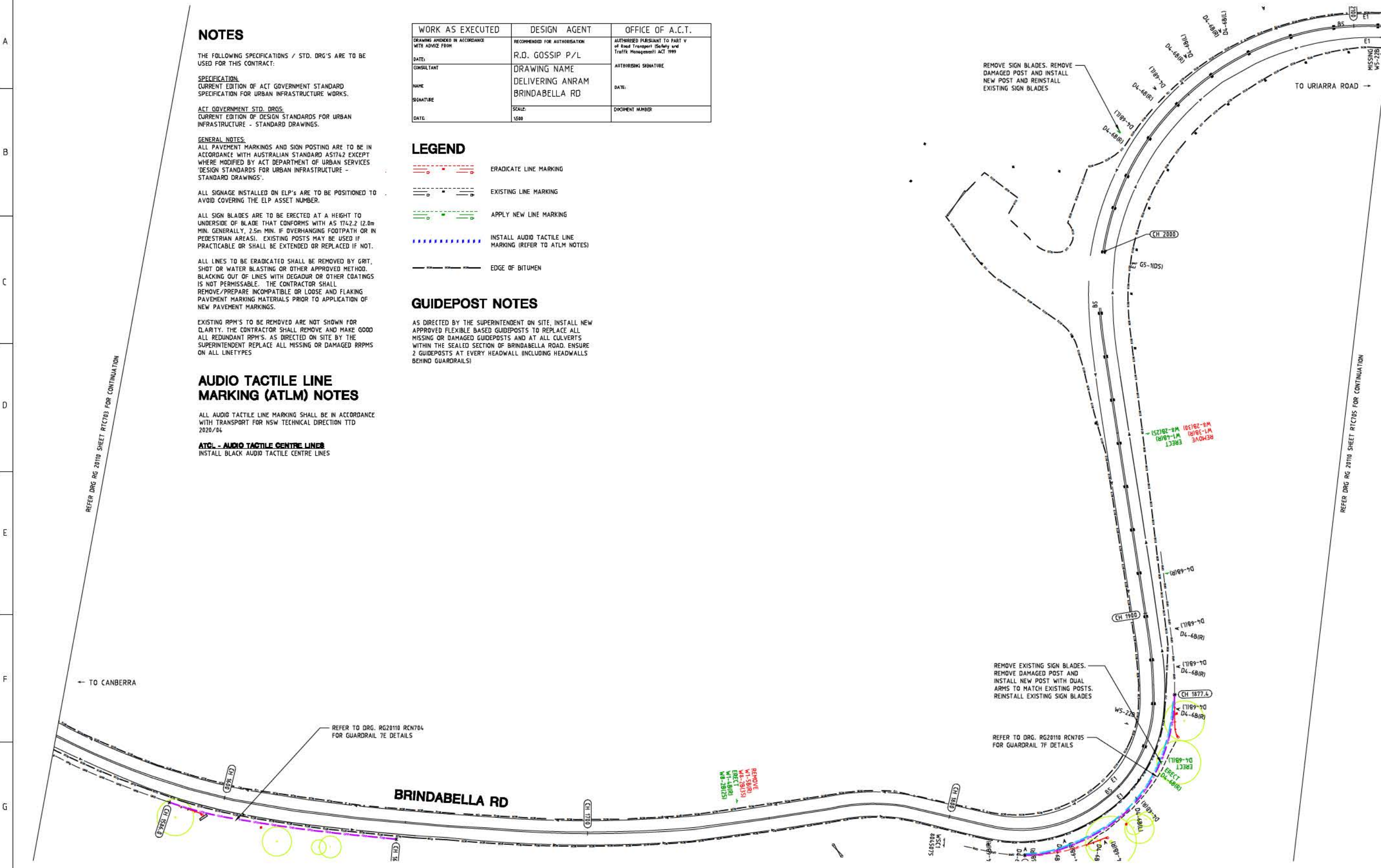
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REMOVE SIGN BLADES. REMOVE DAMAGED POST AND INSTALL NEW POST AND REINSTALL EXISTING SIGN BLADES

REMOVE EXISTING SIGN BLADES. REMOVE DAMAGED POST AND INSTALL NEW POST WITH DUAL ARMS TO MATCH EXISTING POSTS. REINSTALL EXISTING SIGN BLADES

REFER TO DRG. RG20110 RCN705 FOR GUARDRAIL 7F DETAILS

REFER TO DRG. RG20110 RCN704 FOR GUARDRAIL 7E DETAILS



REFER DRG RG 2010 SHEET RTC703 FOR CONTINUATION

REFER DRG RG 2010 SHEET RTC705 FOR CONTINUATION

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
DL-6 CHEVRON ALIGNMENT MARKER	L,R	B	1,1
WS-4 REVERSE CURVE	R	B	2
WS-2 ADVISORY SPEED	25	B	2
SIGNS TO BE REMOVED			
WS-3 CURVE	R	B	1
WS-5 WINDING ROAD	R	B	1
WS-2 ADVISORY SPEED	30,35	B	1,1

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

Scale

SCALE: A1 1:500, A3 1:1000

Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Canberra ACT 2602
Ph: 62 4201 4010

Client

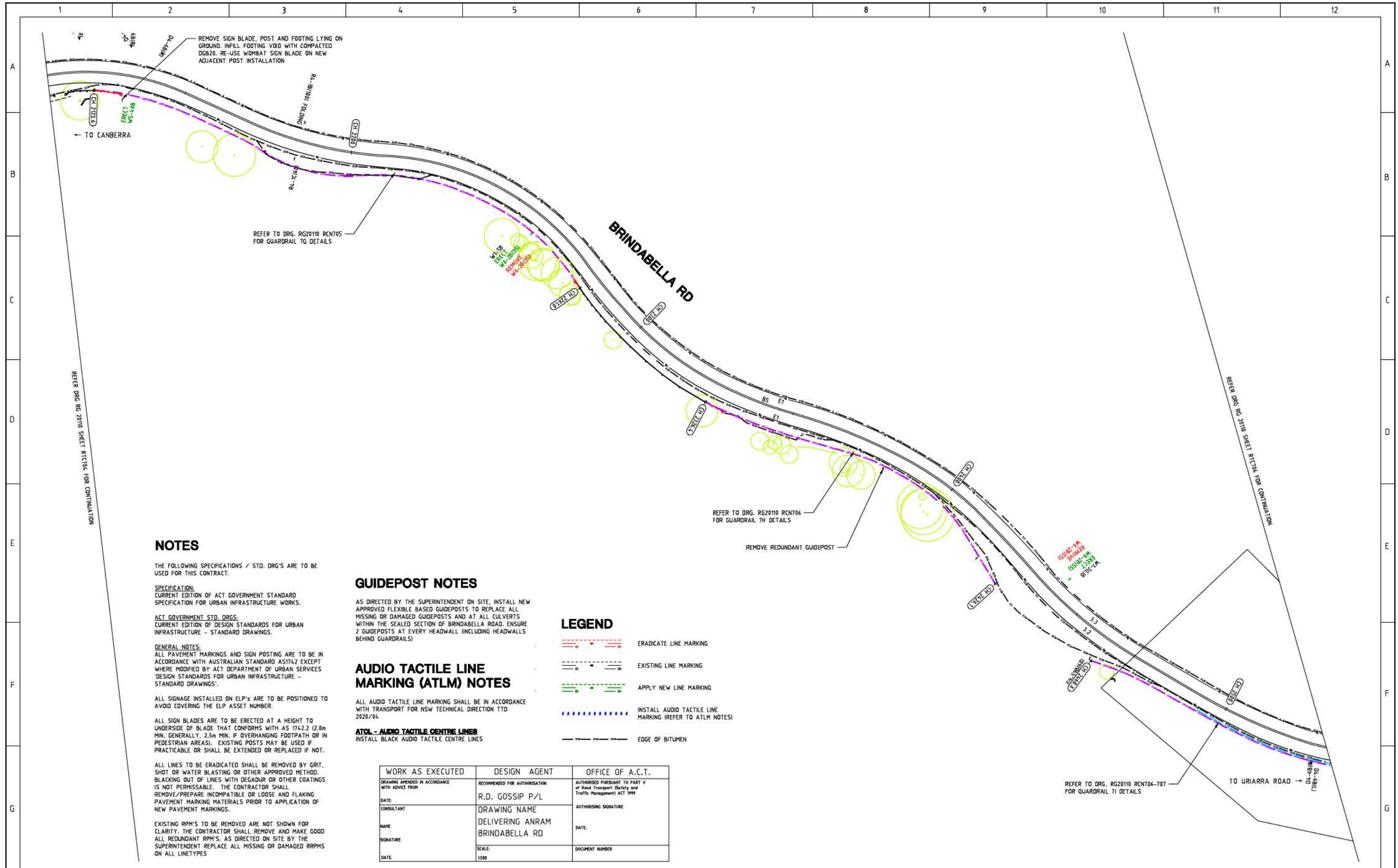
ACT Government

Project

DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 4 OF 30



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION:
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ATOL - AUDIO TACTILE CENTRE LINES

INSTALL BLACK AUDIO TACTILE CENTRE LINES

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

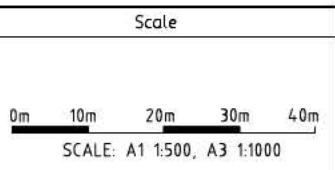
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE

DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
W8-2 ADVISORY SPEED	35,55	B	1,1
SIGNS TO BE REMOVED			
W8-2 ADVISORY SPEED	35,55	B	1,1






AMENDMENTS

AMENDMENT	APPROVAL	DATE
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS		
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
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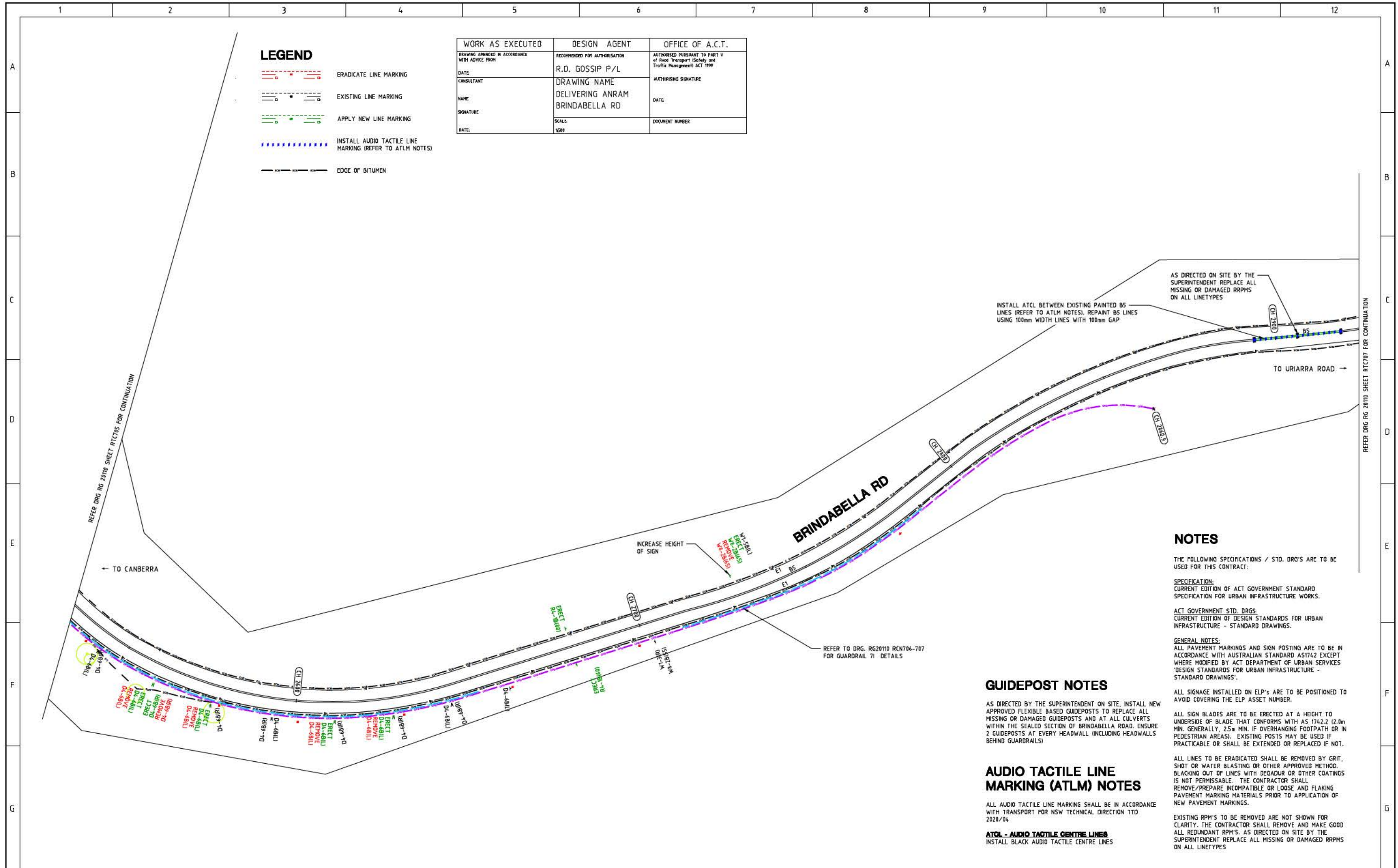


 R.D. Gossip Pty Ltd Consulting Engineers Unit 108, 12 Preston Street Campbell ACT 2602 Ph: 02 4281 4318	Designed by Drawn by Checked by Approved by 	Client Project Officer: Kencho Choden Project Number: 30490 	Project DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7	Drawing Title TRAFFIC CONTROL DEVICE PLAN - SHEET 5 OF 30
	Date: 30/08/21		Drg. No. RG 20110	Sheet RTC705

LEGEND

-  ERADICATE LINE MARKING
-  EXISTING LINE MARKING
-  APPLY NEW LINE MARKING
-  INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
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	1:500	



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AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

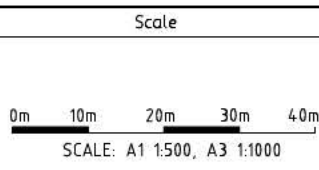
ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.8m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

ALL LINES TO BE ERADICATED SHALL BE REMOVED BY GRIT, SHOT OR WATER BLASTING OR OTHER APPROVED METHOD. BLACKING OUT OF LINES WITH DEGAOUR OR OTHER COATINGS IS NOT PERMISSIBLE. THE CONTRACTOR SHALL REMOVE/PREPARE INCOMPATIBLE OR LOOSE AND FLAKING PAVEMENT MARKING MATERIALS PRIOR TO APPLICATION OF NEW PAVEMENT MARKINGS.

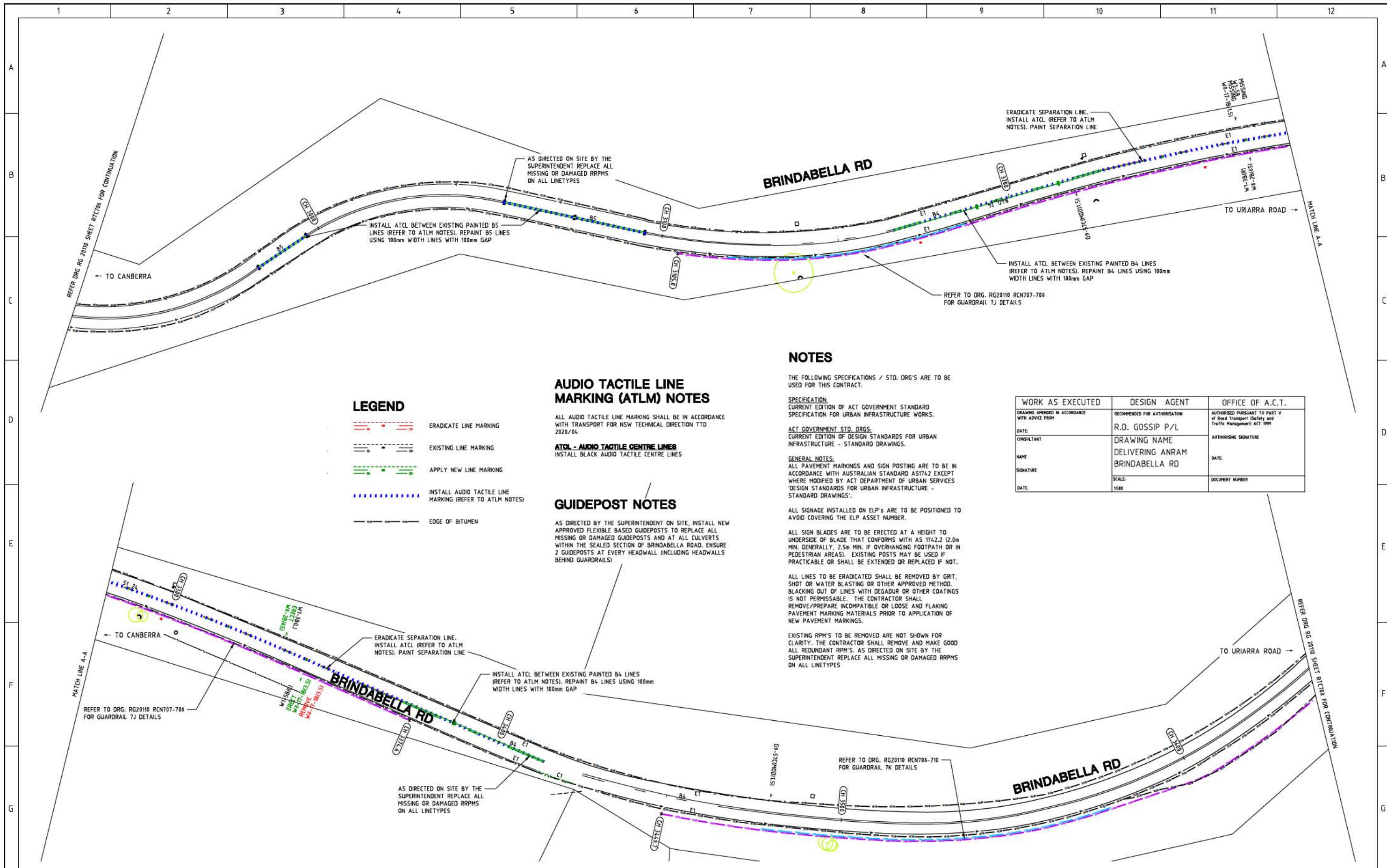
EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RRPMS ON ALL LINETYPES

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
DL-6 CHEVRON ALIGNMENT MARKER	L,R	B	4,1
RL-1 SPEED RESTRICTION (80)	-	B	1
RL-1 SPEED RESTRICTION (60)	-	B	1
WS-2 ADVISORY SPEED	65	B	1
SIGNS TO BE REMOVED			
DL-6 CHEVRON ALIGNMENT MARKER	L,R	B	4,1
WS-2 ADVISORY SPEED	65	B	1

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



 R.D. Gossip Pty Ltd Consulting Engineers Unit 108, 12 Preston Street Campbell ACT 2602 Ph: 62 4201 4318	Designed by  Drawn by  Checked by  Approved by 	Client Project Officer: Kencho Choden Project Number: 30490 	Project DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7 Date: 30/08/21	Drawing Title TRAFFIC CONTROL DEVICE PLAN - SHEET 6 OF 30 Drg. No. RG 20110 Sheet RTC706 Revision 0
--	--	--	---	--



LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS WITHIN THE SEALED SECTION OF BRINDABELLA ROAD. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRG'S:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

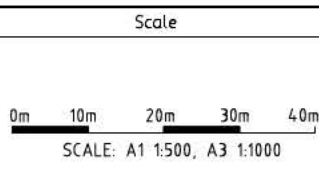
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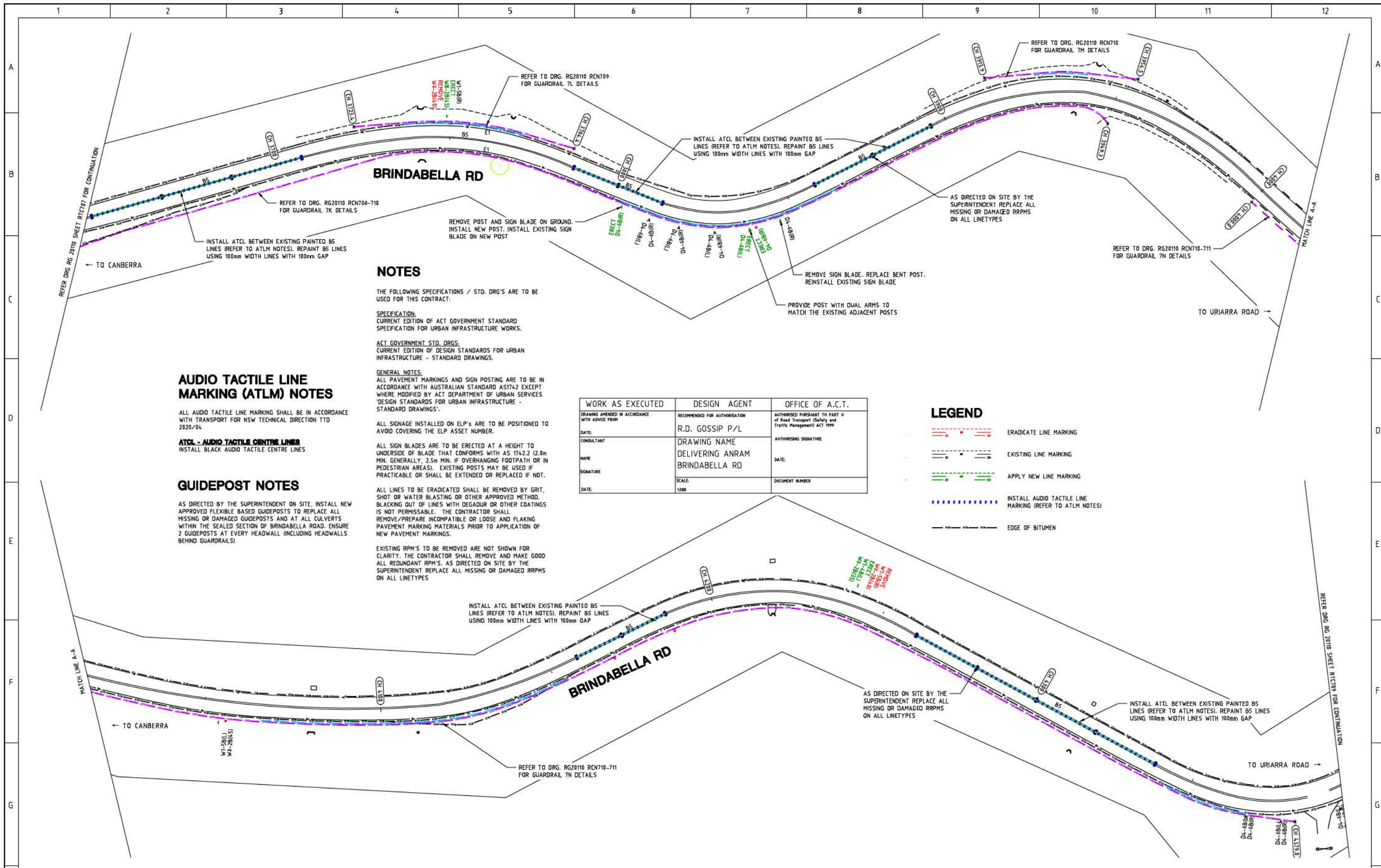
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE				AMENDMENTS		
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL	DATE
SIGNS TO BE ERECTED						
W8-2 ADVISORY SPEED	45	B	1			
W8-17-1 NEXT (3.5km)	-	B	1			
SIGNS TO BE REMOVED						
W8-17-1 NEXT (3.5km)	-	B	1			



 R.D. Gossip Pty Ltd Consulting Engineers Unit 108, 12 Pivon Street Campbell ACT 2602 Ph: 02 4291 4318	Designed by Drawn by Checked by Approved by 	Client Project Officer: Kencho Choden Project Number: 30490 	Project DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7	Drawing Title TRAFFIC CONTROL DEVICE PLAN - SHEET 7 OF 30
	Date: 30/08/21		Drg. No.: RG 20110	Sheet: RTC707 Revision: 0



AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2820/04.

ATCL - AUDIO TACTILE CENTRE LINES

INSTALL BLACK AUDIO TACTILE CENTRE LINES

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS WITHIN THE SEALED SECTION OF BRINDABELLA ROAD. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

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SPECIFICATION:
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ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:

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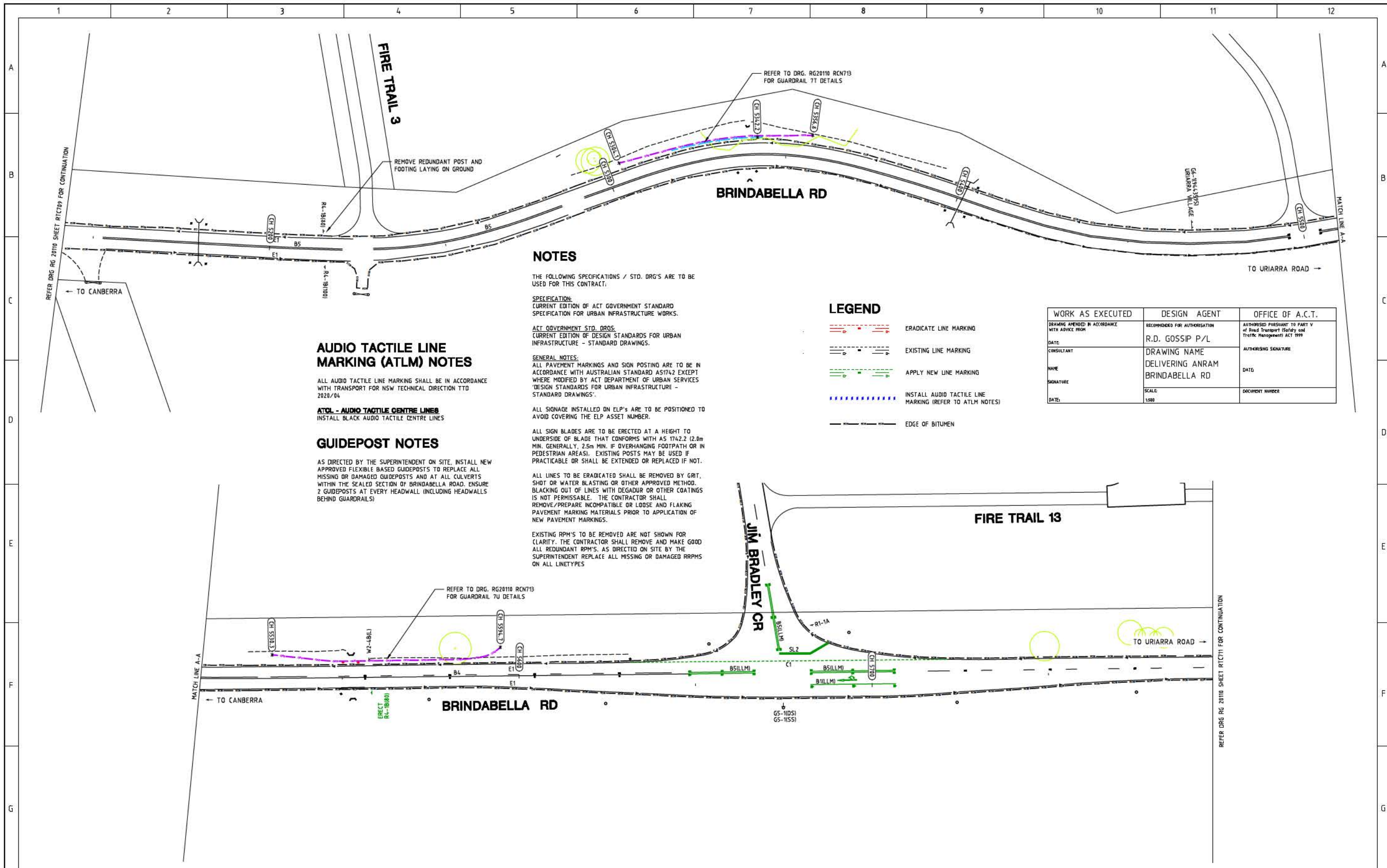
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

SIGN SCHEDULE				AMENDMENTS			Scale	Design Agent	Client	Project	Drawing Title		
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL	DATE	0m 10m 20m 30m 40m	R.D. Gossip Pty Ltd Consulting Engineers Unit 108, 12 Preston Street Campbell ACT 2602 Ph: 02 4281 4318	Project Officer: Kencho Choden Project Number: 30490	DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7	TRAFFIC CONTROL DEVICE PLAN - SHEET 8 OF 30		
SIGNS TO BE ERECTED							SCALE: A1 1:500, A3 1:1000			Date: 30/08/21	Drg. No. RG 20110	Sheet RTC708	Revision 0
DL-6	CHEVRON ALIGNMENT MARKER	L,R	B	1,2	DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS								
WL-4	REVERSE CURVE	L	B	1	Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--							
WS-2	ADVISORY SPEED	35,45	B	2	For tendering purposes only: --/--/--	Issued for construction: --/--/--							
SIGNS TO BE REMOVED													
W1-5	WINDING ROAD	R	B	1	Final Design: 30/08/21								
WS-2	ADVISORY SPEED	40	B	2	W.A.E.: --/--/--								



AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

GUIDEPOST NOTES

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NOTES

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SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS.
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

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LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	BRINDABELLA RD	
DATE:	SCALE	
	1:500	

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
RA-1 SPEED RESTRICTION (80)	-	B	1
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS			
AMENDMENT	APPROVAL	DATE	
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS			
Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21	
For tendering purposes only: --/--/-- Issued for construction: --/--/-- W.A.E.: --/--/--			

Scale

SCALE: A1 1:500, A3 1:1000

Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Canberra ACT 2602
Ph: 62 4201 4310

Client

ACT Government

Project

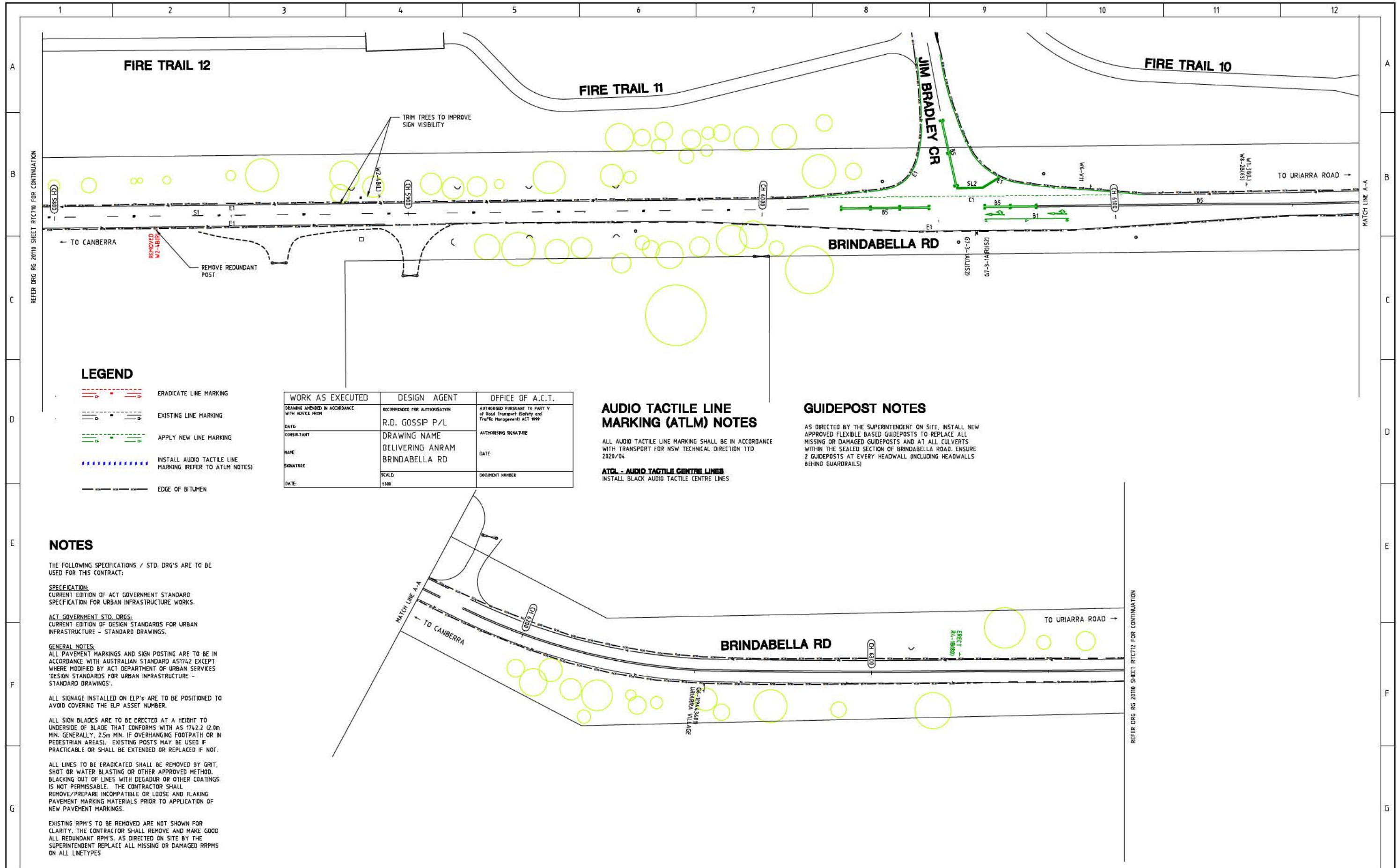
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 10 OF 30

Drg. No. RG 20110
Sheet RTC710
Revision 0



LEGEND

- ERADICATE LINE MARKING
- - - EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT	DRAWING NAME	AUTHORIZING SIGNATURE
NAME	DELIVERING ANRAM	DATE
SIGNATURE	BRINDABELLA RD	
DATE:	SCALE:	DOCUMENT NUMBER
	1:500	

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04
ATCL - AUDIO TACTILE CENTRE LINES
 INSTALL BLACK AUDIO TACTILE CENTRE LINES

GUIDEPOST NOTES

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NOTES

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SPECIFICATION:
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ACT GOVERNMENT STD. DRG'S:
 CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

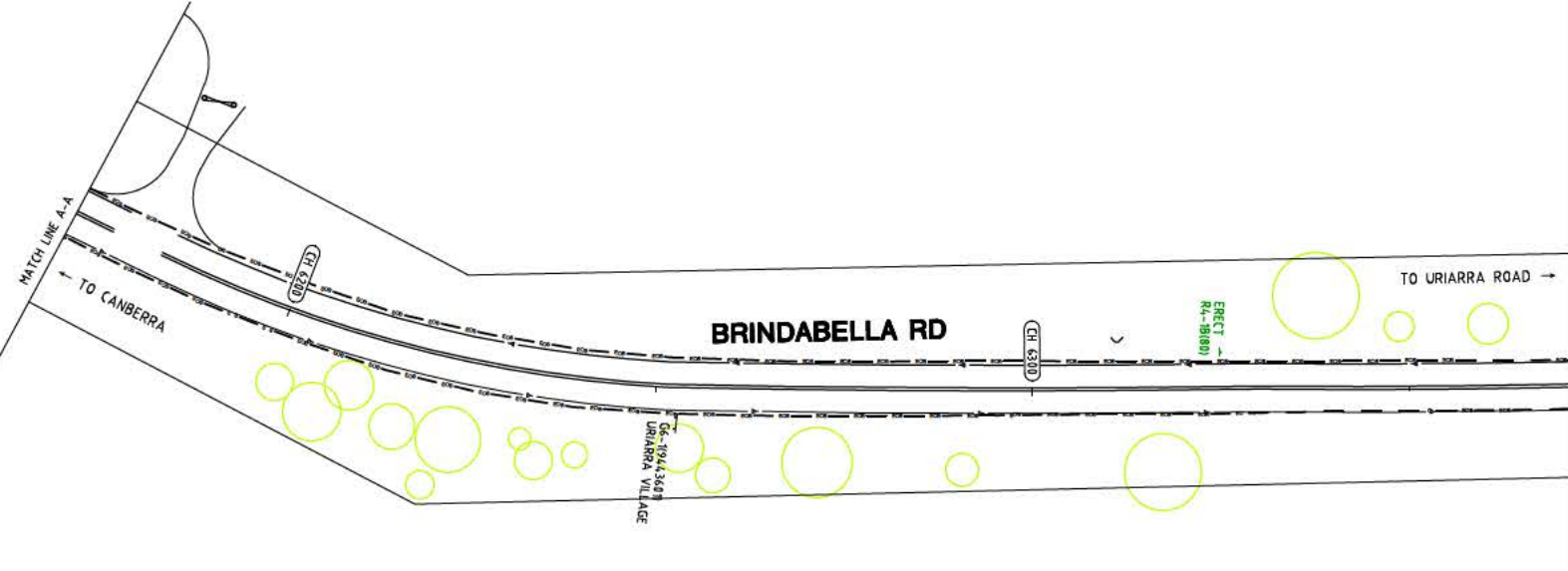
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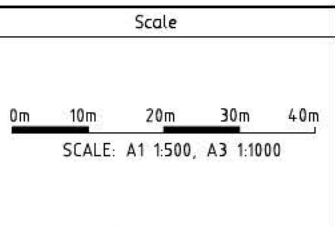
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SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
RA-1 SPEED RESTRICTION (80)	-	B	1
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
 Consulting Engineers
 Unit 108, 12 Preston Street
 Campbell ACT 2602
 Ph: 62 4201 4318

Client

Project Officer: Kencho Choden
 Project Number: 30490

ACT Government

Project

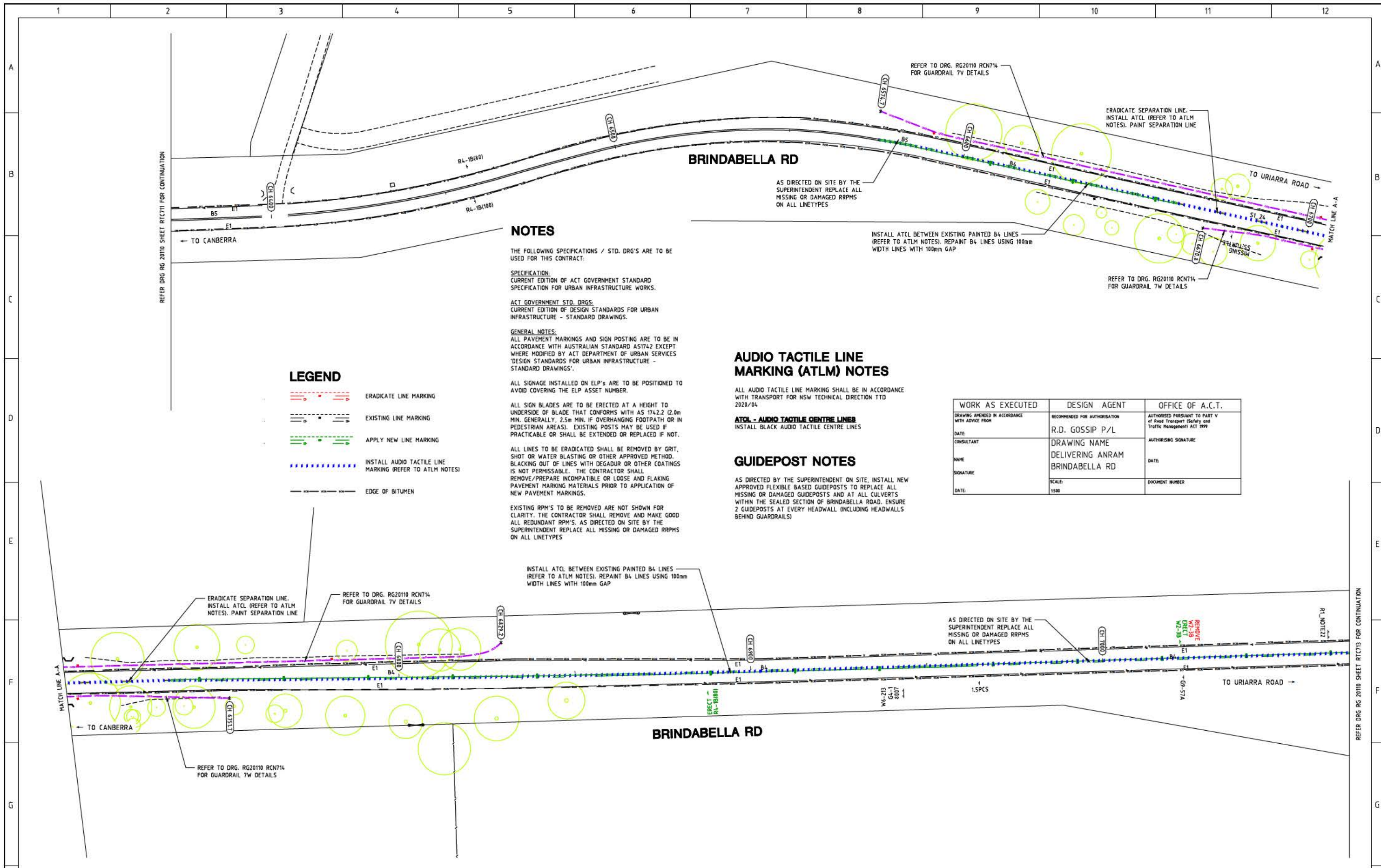
DELIVERING ANRAM
 STAGE 2
 SAFETY BARRIERS & TCDS
 BRINDABELLA RD - SITE 7

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
 - SHEET 11 OF 30

Drg. No. **RG 20110** Sheet **RTC711** Revision **0**



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
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LEGEND

	ERADICATE LINE MARKING
	EXISTING LINE MARKING
	APPLY NEW LINE MARKING
	INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
	EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

GUIDEPOST NOTES

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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT:	DRAWING NAME	DATE:
NAME:	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE:	BRINDABELLA RD	
DATE:	SCALE: 1:500	

SIGN SCHEDULE

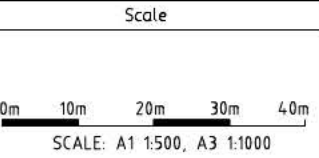
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
RL-1 SPEED RESTRICTION (80)	-	B	1
W2-3 T INTERSECTION	-	B	1
SIGNS TO BE REMOVED			
W2-3 T INTERSECTION	-	B	1

AMENDMENTS

AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 02 4261 4318

Designed by: [Signature]
Drawn by: [Signature]
Checked by: [Signature]
Approved by: [Signature]

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

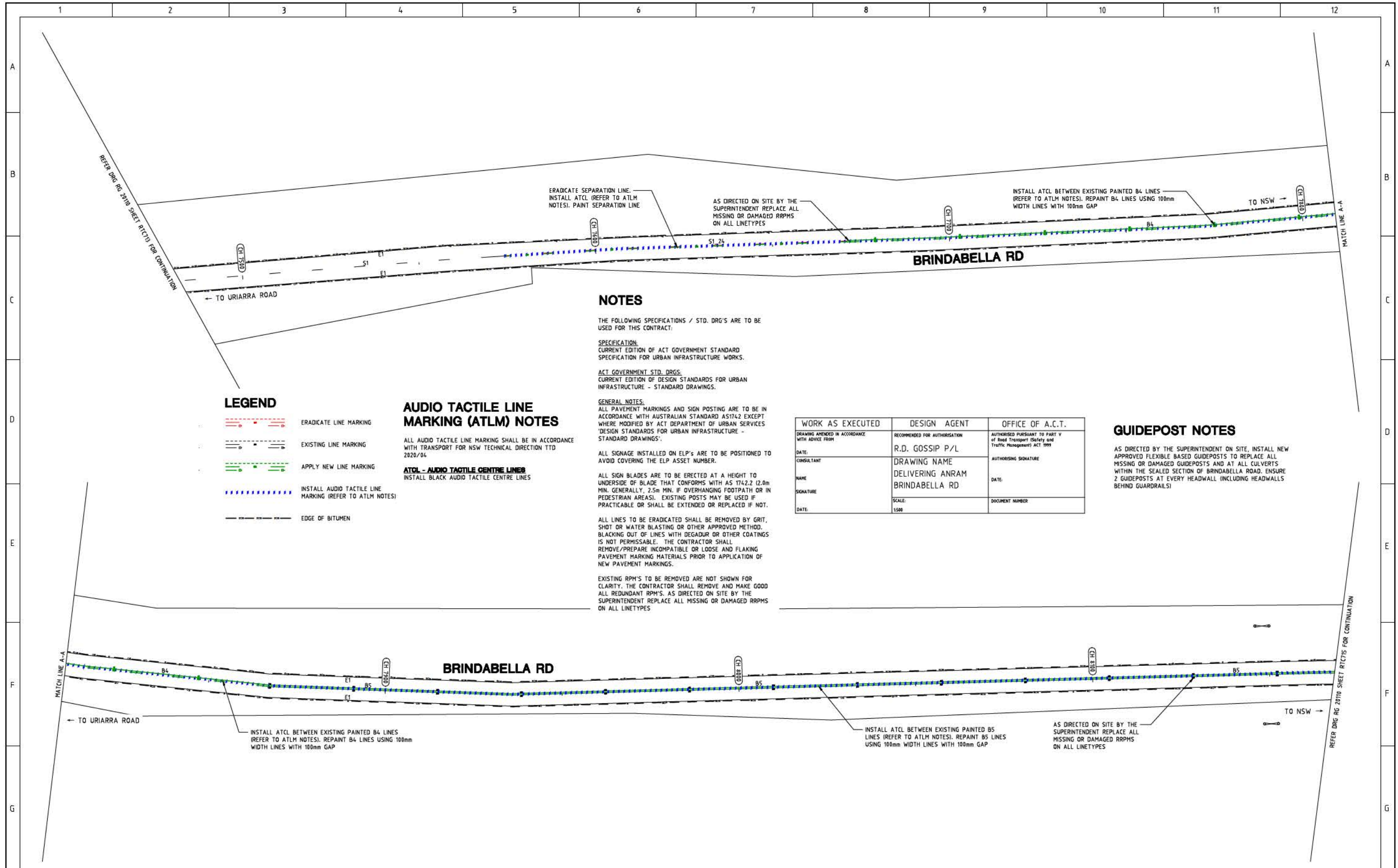
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 12 OF 30

Drg. No.	Sheet	Revision
RG 20110	RTC712	0



LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATOL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

NOTES

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SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
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ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

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EXISTING RPPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RPPMS ON ALL LINETYPES

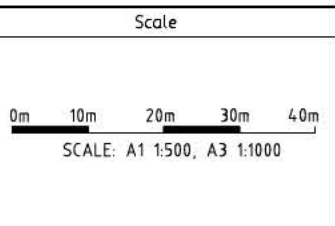
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORIZING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS WITHIN THE SEALED SECTION OF BRINDABELLA ROAD. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL INCLUDING HEADWALLS BEHIND GUARDRAILS!

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
SIGNS TO BE REMOVED			

AMENDMENTS		
AMENDMENT	APPROVAL	DATE



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 106, 12 Preston Street
Campbell ACT 2602
Ph: 02 4201 4310

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

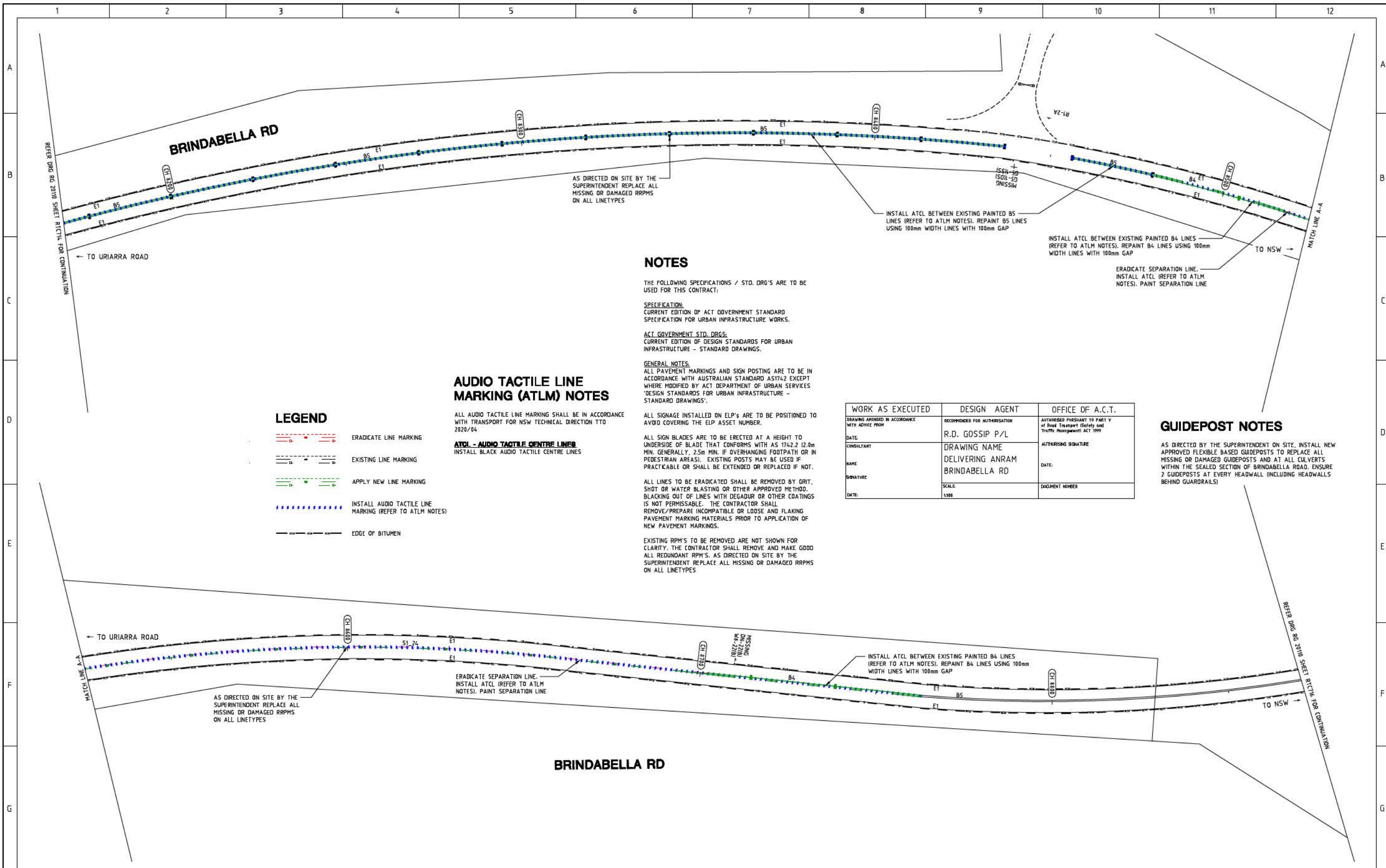
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 14 OF 30

Drg. No. RG 20110
Sheet RTC714
Revision 0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
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AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION R.D. GOSSIP P/L	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE	DRAWING NAME DELIVERING ANRAM BRINDABELLA RD	AUTHORISING SIGNATURE
CONSULTANT	SCALE 1:500	DATE
NAME		DOCUMENT NUMBER
SIGNATURE		
DATE		

SIGN SCHEDULE				AMENDMENTS				Scale		Design Agent		Client		Project		Drawing Title	
DESCRIPTION				AMENDMENT				0m 10m 20m 30m 40m		R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph. 02 4291 4318		Project Officer: Kencho Choden Project Number: 30490		DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7		TRAFFIC CONTROL DEVICE PLAN - SHEET 15 OF 30	
SIGN TO BE ERRECTED				APPROVAL				SCALE: A1 1:500, A3 1:1000				Date: 30/08/21		Drg. No. RG 20110		Sheet RTC715	
SIGN TO BE REMOVED				DATE										Revision 0			
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS																	
Conceptual Sketch: 02/03/21				Final Sketch Plan: --/--/--													
For tendering purposes only: --/--/--				Issued for construction: --/--/--													
Final Design: 30/08/21				W.A.E.: --/--/--													

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS.
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

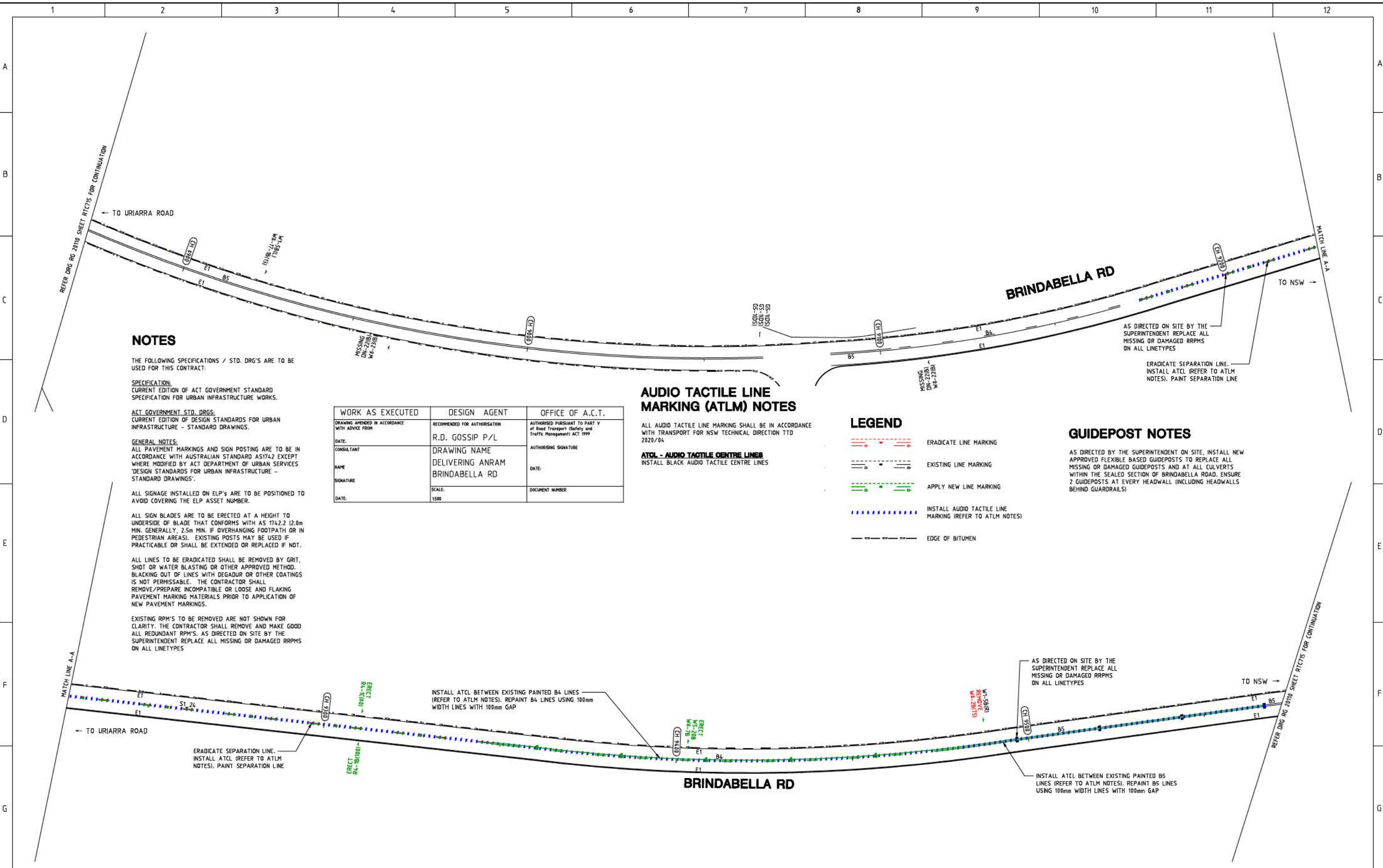
ATOL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
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GUIDEPOST NOTES

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SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
R4-1 SPEED RESTRICTION (100)	-	B	1
R4-1 SPEED RESTRICTION (80)	-	B	1
W8-20 SLIPPERY	-	B	1
W8-7 WHEN WET	-	B	1
SIGNS TO BE REMOVED			
W8-17-1 NEXT (7km)	-	B	1

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

Scale

SCALE: A1 1:500, A3 1:1000

Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 62 4261 4318

Client

ACT Government

Project

DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7

Drawing Title

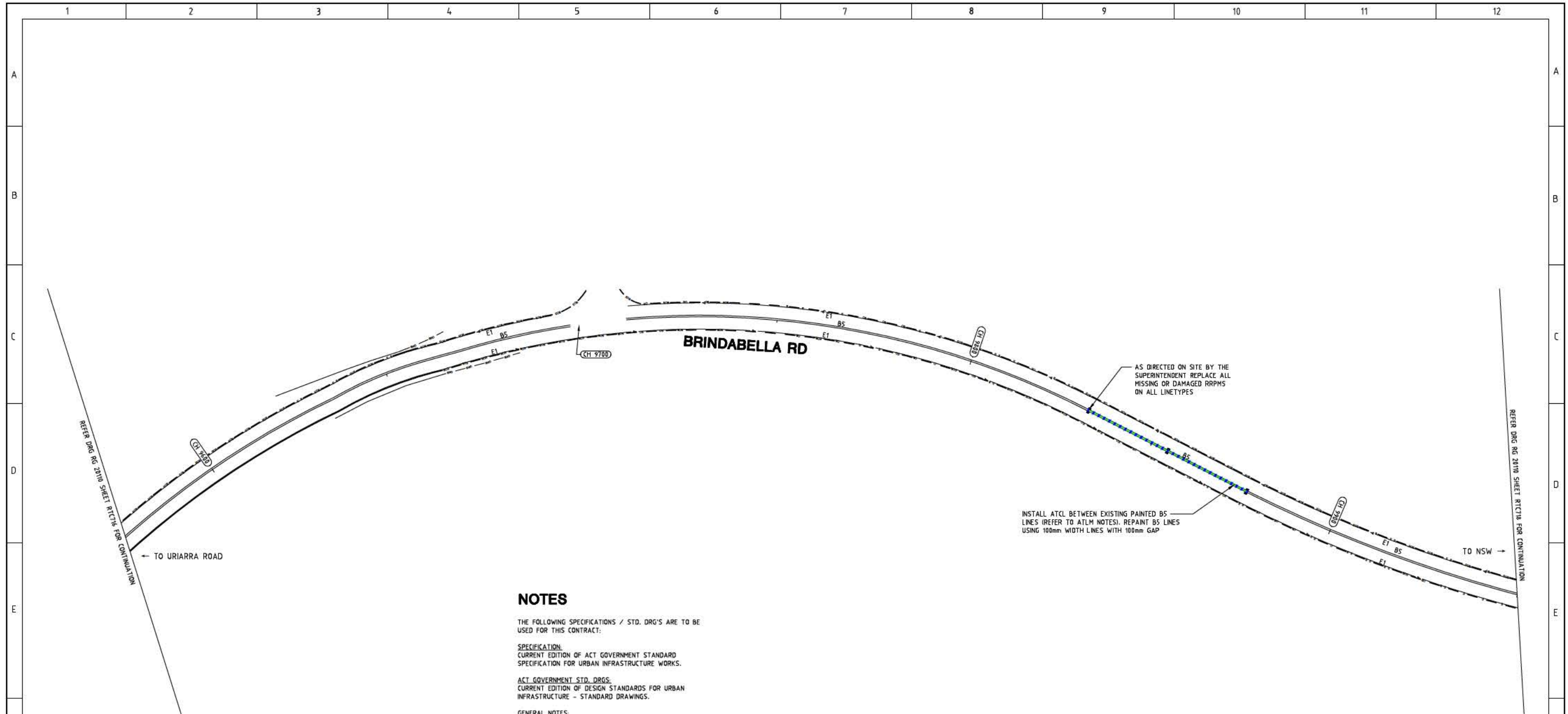
TRAFFIC CONTROL DEVICE PLAN
- SHEET 16 OF 30

Date: 30/08/21

Drg. No. RG 20110

Sheet RTC716

Revision 0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
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LEGEND

	ERADICATE LINE MARKING
	EXISTING LINE MARKING
	APPLY NEW LINE MARKING
	INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
	EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04.

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE:
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

GUIDEPOST NOTES

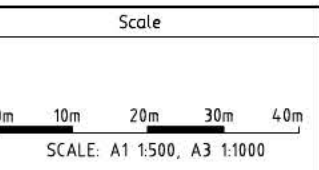
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SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
-	-	-	-
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 02 4261 4318

Designed by: [Signature]
Drawn by: [Signature]
Checked by: [Signature]
Approved by: [Signature]

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7


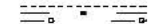



Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 17 OF 30

Drg. No.	Sheet	Revision
RG 20110	RTC717	0

LEGEND

-  ERADICATE LINE MARKING
-  EXISTING LINE MARKING
-  APPLY NEW LINE MARKING
-  INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
-  EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES

INSTALL BLACK AUDIO TACTILE CENTRE LINES

GUIDEPOST NOTES

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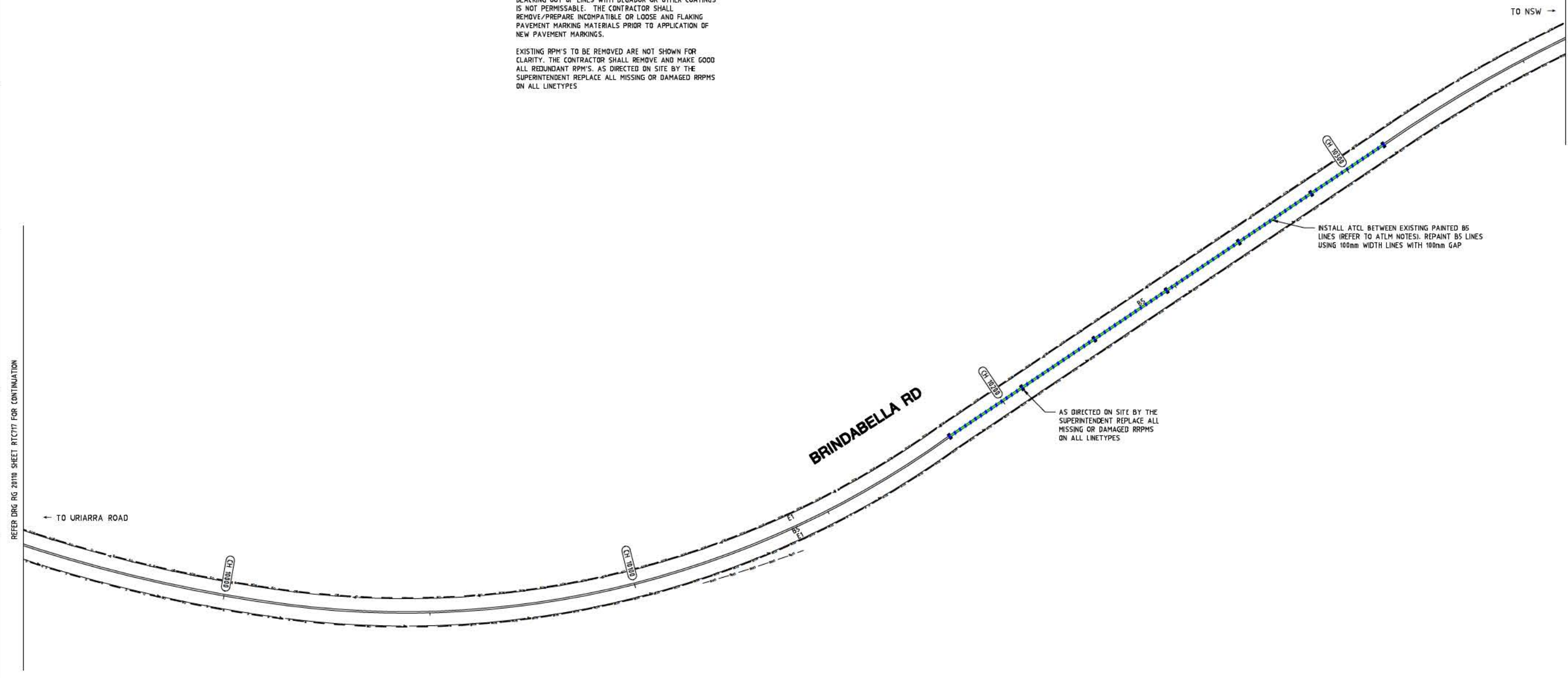
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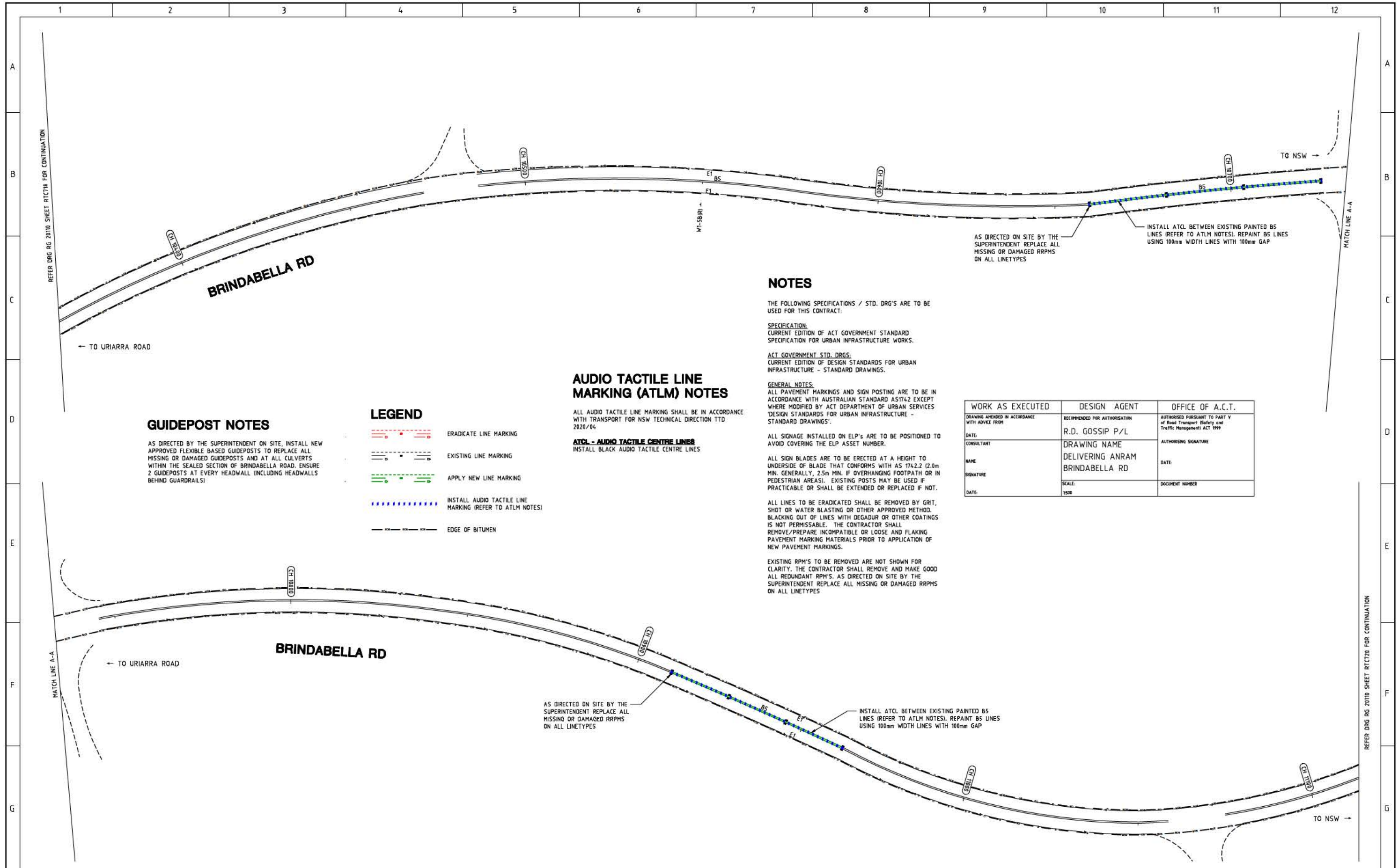
WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE	R.D. GOSSIP P/L	
CONSULTANT	DRAWING NAME	AUTHORIZING SIGNATURE
NAME	DELIVERING ANRAM	DATE
SIGNATURE	BRINDABELLA RD	DOCUMENT NUMBER
DATE	SCALE	
	1:500	



REFER DRG RG 2010 SHEET RTC17 FOR CONTINUATION

REFER DRG RG 2010 SHEET RTC17 FOR CONTINUATION

SIGN SCHEDULE				AMENDMENTS				Scale		Design Agent		Client		Project		Drawing Title	
DESCRIPTION				AMENDMENT				0m 10m 20m 30m 40m		R.D. Gossip Pty Ltd Consulting Engineers Unit 106, 12 Preston Street Campbell ACT 2602 Ph: 02 4291 4318		Project Officer: Kencho Choden Project Number: 30490		DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7		TRAFFIC CONTROL DEVICE PLAN - SHEET 18 OF 30	
SIGN TO BE ERECTED				APPROVAL				SCALE: A1 1:500, A3 1:1000				Date: 30/08/21		Drg. No. RG 20110		Sheet RTC718	
SIGN TO BE REMOVED				DATE										Revision 0			
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS																	
Conceptual Sketch: 02/03/21				Final Sketch Plan: --/--/--													
For tendering purposes only: --/--/--				Issued for construction: --/--/--													
Final Design: 30/08/21				W.A.E.: --/--/--													



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LEGEND

	ERADICATE LINE MARKING
	EXISTING LINE MARKING
	APPLY NEW LINE MARKING
	INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
	EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

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ATCL - AUDIO TACTILE CENTRE LINES
 INSTALL BLACK AUDIO TACTILE CENTRE LINES

NOTES

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SPECIFICATION:
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AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RRPMS ON ALL LINETYPES

INSTALL ATCL BETWEEN EXISTING PAINTED BS LINES (REFER TO ATLM NOTES). REPAINT BS LINES USING 100mm WIDTH LINES WITH 100mm GAP

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM	RECOMMENDED FOR AUTHORISATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT	DRAWING NAME	DATE
NAME	DELIVERING ANRAM	DOCUMENT NUMBER
SIGNATURE	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

SIGN SCHEDULE

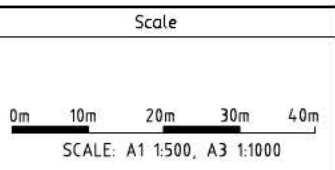
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
SIGNS TO BE REMOVED			

AMENDMENTS

AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--



Design Agent

R.D. Gossip Pty Ltd
 Consulting Engineers
 Unit 108, 12 Preston Street
 Campbell ACT 2602
 Ph: 02 4261 4318

Designed by
 Drawn by
 Checked by
 Approved by

Client

Project Officer: Kencho Choden
 Project Number: 30490

ACT Government

Project

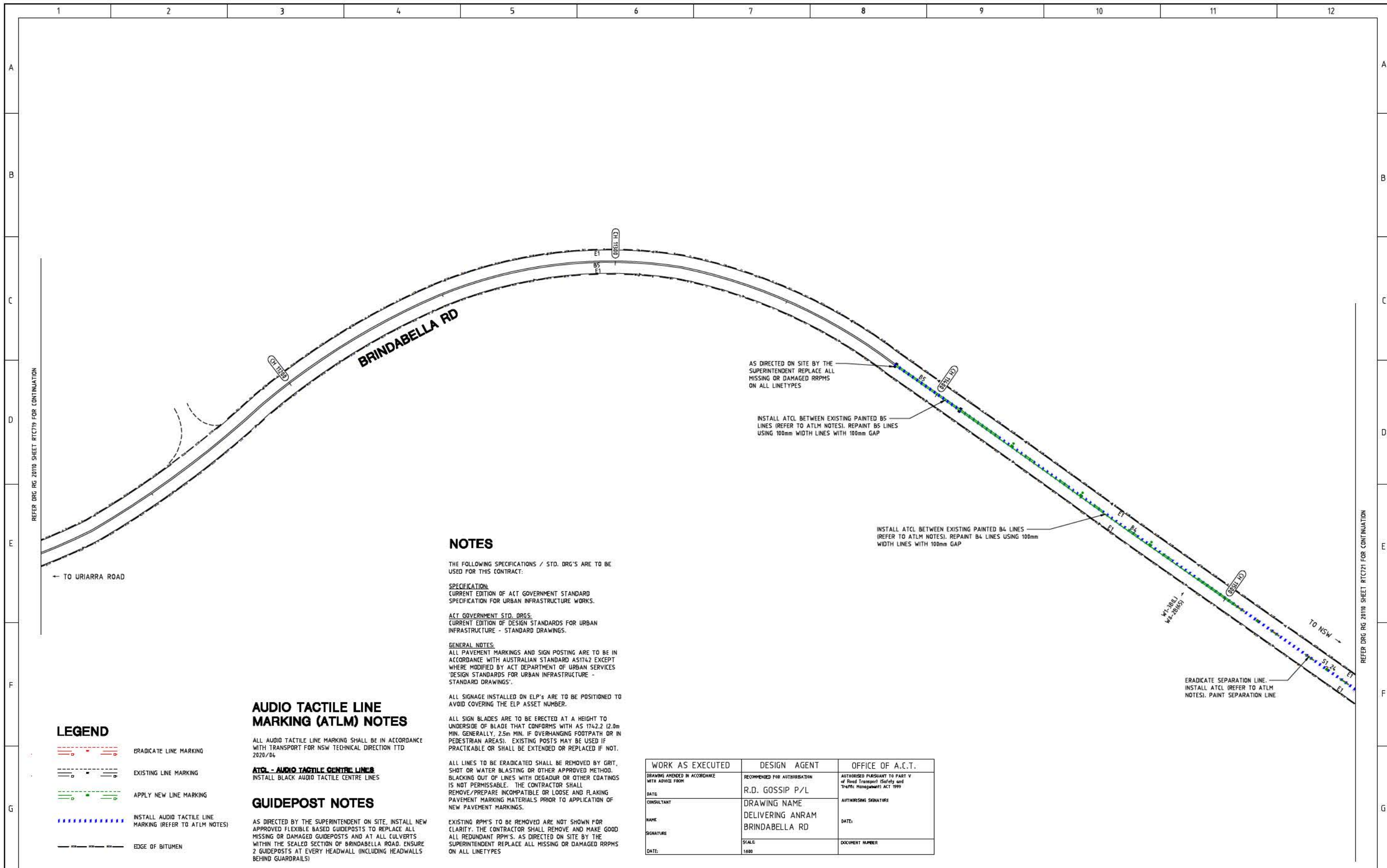
DELIVERING ANRAM
 STAGE 2
 SAFETY BARRIERS & TCDS
 BRINDABELLA RD - SITE 7

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
 - SHEET 19 OF 30

Drg. No.	Sheet	Revision
RG 20110	RTC719	0



NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH OR IN PEDESTRIAN AREAS). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

ALL LINES TO BE ERADICATED SHALL BE REMOVED BY GRIT, SHOT OR WATER BLASTING OR OTHER APPROVED METHOD. BLACKING OUT OF LINES WITH DEGAUR OR OTHER COATINGS IS NOT PERMISSIBLE. THE CONTRACTOR SHALL REMOVE/PREPARE INCOMPATIBLE OR LOOSE AND FLAKING PAVEMENT MARKING MATERIALS PRIOR TO APPLICATION OF NEW PAVEMENT MARKINGS.

EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RRPMS ON ALL LINETYPES

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04.

ATCL - AUDIO TACTILE CENTRE LINES

INSTALL BLACK AUDIO TACTILE CENTRE LINES

GUIDEPOST NOTES

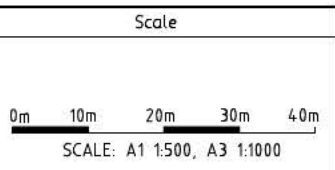
AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS WITHIN THE SEALED SECTION OF BRINDABELLA ROAD. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

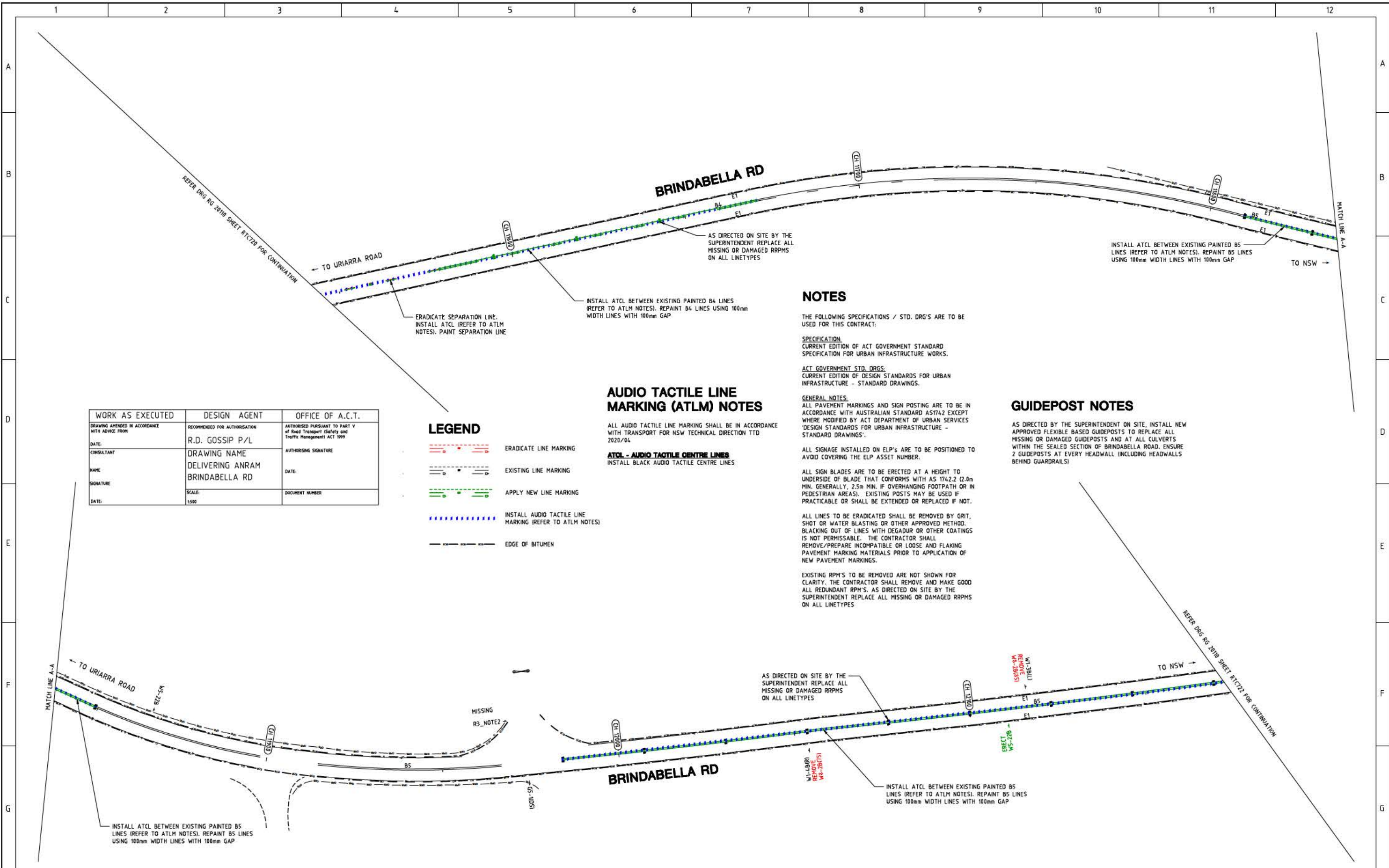
- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport Safety and Traffic Management ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT:	DRAWING NAME	DATE:
NAME:	DELIVERING ANRAM	DOCUMENT NUMBER:
SIGNATURE:	BRINDABELLA RD	
DATE:	SCALE	
	1:500	

SIGN SCHEDULE				AMENDMENTS		
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL	DATE
SIGNS TO BE ERECTED						
SIGNS TO BE REMOVED						
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS						
Conceptual Sketch: 02/03/21		Final Sketch Plan: --/--/--		Final Design: 30/08/21		
For tendering purposes only: --/--/--		Issued for construction: --/--/--		W.A.E.: --/--/--		



 R.D. Gossip Pty Ltd Consulting Engineers Unit 108, 12 Preston Street Campbell ACT 2602 Ph: 02 4281 4318	Designed by 	Client Project Officer: Kencho Choden Project Number: 30490 	Project DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7	Drawing Title TRAFFIC CONTROL DEVICE PLAN - SHEET 20 OF 30	
	Drawn by 				Date 30/08/21
	Checked by 				Drg. No. RG 20110
	Approved by 				Sheet RTC720
			Revision 0		



WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORISATION:	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE:
CONSULTANT:	DRAWING NAME:	DATE:
NAME:	DELIVERING ANRAM	DOCUMENT NUMBER:
SIGNATURE:	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	

- LEGEND**
- ERADICATE LINE MARKING
 - EXISTING LINE MARKING
 - APPLY NEW LINE MARKING
 - INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
 - EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT:

SPECIFICATION:
CURRENT EDITION OF ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.

ACT GOVERNMENT STD. DRGS:
CURRENT EDITION OF DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
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EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S. AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RRPMS ON ALL LINETYPES

GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS WITHIN THE SEALED SECTION OF BRINDABELLA ROAD. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
W8-2 ADVISORY SPEED	75,85	B	1,1
W5-22 TRUCKS CROSSING	-	B	1
SIGNS TO BE REMOVED			
-	-	-	-

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS

Conceptual Sketch: 02/03/21	Final Sketch Plan: --/--/--	Final Design: 30/08/21
For tendering purposes only: --/--/--	Issued for construction: --/--/--	W.A.E.: --/--/--

Scale

SCALE: A1 1:500, A3 1:1000

Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 02 4201 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

ACT Government

Project

DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7

Date: 30/08/21

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- SHEET 21 OF 30

Drg. No.	Sheet	Revision
RG 20110	RTC721	0

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

AUDIO TACTILE LINE MARKING (ATLM) NOTES

ALL AUDIO TACTILE LINE MARKING SHALL BE IN ACCORDANCE WITH TRANSPORT FOR NSW TECHNICAL DIRECTION TTD 2020/04

ATCL - AUDIO TACTILE CENTRE LINES

INSTALL BLACK AUDIO TACTILE CENTRE LINES

GUIDEPOST NOTES

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NOTES

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ACT GOVERNMENT STD. DRGS:
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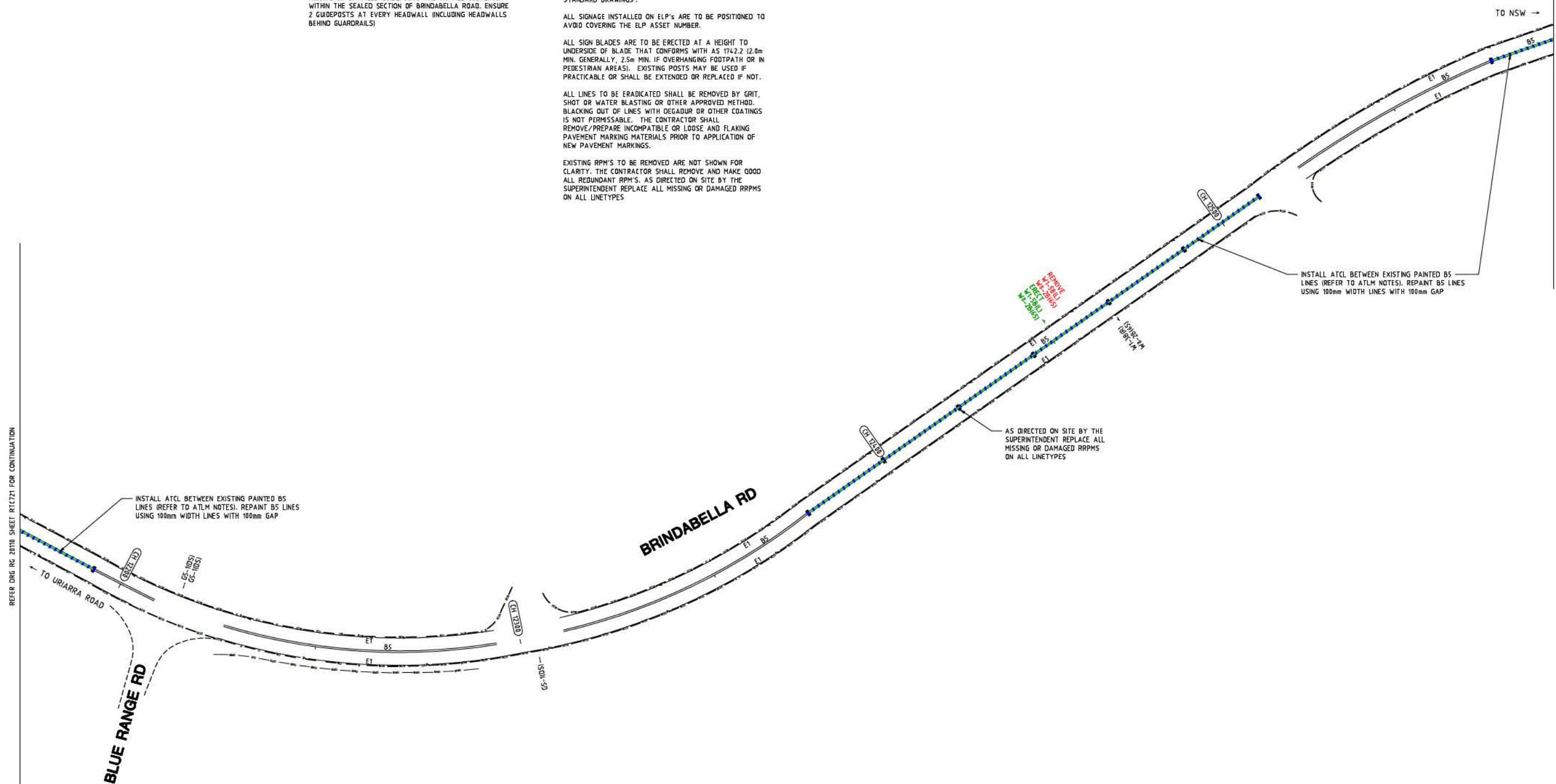
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WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION	AUTHORIZED PURSUANT TO PART V of Road Transport Safety and Traffic Management ACT 1999
DATE:	R.D. GOSSIP P/L	AUTHORISING SIGNATURE
CONSULTANT:	DRAWING NAME	DATE:
NAME:	DELIVERING ANRAM	DOCUMENT NUMBER:
SIGNATURE:	BRINDABELLA RD	
DATE:	SCALE:	
	1:500	



SIGN SCHEDULE			
DESCRIPTION	HAND	SIZE	NO. OF.
SIGNS TO BE ERECTED			
W1-5 WINDING ROAD	L	B	1
W8-2 ADVISORY SPEED	65	B	1
SIGNS TO BE REMOVED			
W1-5 WINDING ROAD	L	B	1
W8-2 ADVISORY SPEED	65	B	1

AMENDMENTS		
AMENDMENT	APPROVAL	DATE

Scale

0m 10m 20m 30m 40m

SCALE: A1 1:500, A3 1:1000

Design Agent

R.D. Gossip Pty Ltd
Consulting Engineers
Unit 108, 12 Preston Street
Campbell ACT 2602
Ph: 02 4261 4318

Client

Project Officer: Kencho Choden
Project Number: 30490

Project

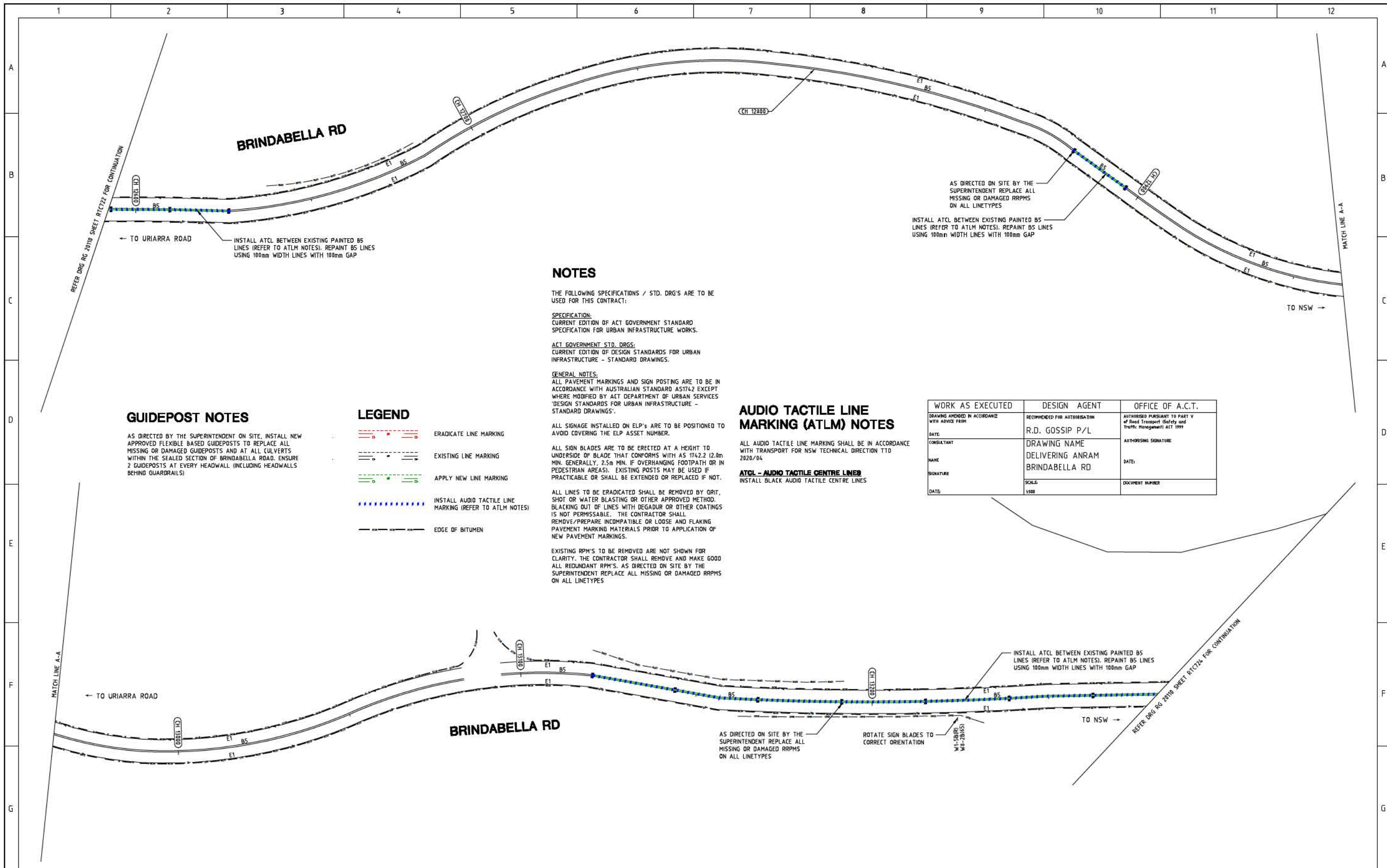
DELIVERING ANRAM
STAGE 2
SAFETY BARRIERS & TCDS
BRINDABELLA RD - SITE 7

Date: 30/08/21

Drg. No. RG 20110

Sheet RTC722

Revision 0



GUIDEPOST NOTES

AS DIRECTED BY THE SUPERINTENDENT ON SITE, INSTALL NEW APPROVED FLEXIBLE BASED GUIDEPOSTS TO REPLACE ALL MISSING OR DAMAGED GUIDEPOSTS AND AT ALL CULVERTS WITHIN THE SEALED SECTION OF BRINDABELLA ROAD. ENSURE 2 GUIDEPOSTS AT EVERY HEADWALL (INCLUDING HEADWALLS BEHIND GUARDRAILS)

LEGEND

- ERADICATE LINE MARKING
- EXISTING LINE MARKING
- APPLY NEW LINE MARKING
- INSTALL AUDIO TACTILE LINE MARKING (REFER TO ATLM NOTES)
- EDGE OF BITUMEN

NOTES

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ACT GOVERNMENT STD. DRGS:
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ATCL - AUDIO TACTILE CENTRE LINES
INSTALL BLACK AUDIO TACTILE CENTRE LINES

AS DIRECTED ON SITE BY THE SUPERINTENDENT REPLACE ALL MISSING OR DAMAGED RRPMs ON ALL LINETYPES
INSTALL ATCL BETWEEN EXISTING PAINTED BS LINES (REFER TO ATLM NOTES). REPAINT BS LINES USING 100mm WIDTH LINES WITH 100mm GAP

WORK AS EXECUTED	DESIGN AGENT	OFFICE OF A.C.T.
DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM:	RECOMMENDED FOR AUTHORIZATION	AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999
DATE:	R.D. GOSSIP P/L	
CONSULTANT:	DRAWING NAME	AUTHORISING SIGNATURE:
NAME:	DELIVERING ANRAM	DATE:
SIGNATURE:	BRINDABELLA RD	DOCUMENT NUMBER:
DATE:	SCALE	
	1:500	

SIGN SCHEDULE				AMENDMENTS			Scale 0m 10m 20m 30m 40m SCALE: A1 1:500, A3 1:1000	 R.D. Gossip Pty Ltd Consulting Engineers Unit 108, 12 Preston Street Campbell ACT 2602 Ph. 02 4201 4318	 ACT Government	Project DELIVERING ANRAM STAGE 2 SAFETY BARRIERS & TCDS BRINDABELLA RD - SITE 7	Drawing Title TRAFFIC CONTROL DEVICE PLAN - SHEET 23 OF 30	
DESCRIPTION	HAND	SIZE	NO. OF.	AMENDMENT	APPROVAL	DATE						Date
SIGNS TO BE ERECTED	-	-	-						30/08/21	RG 20110	RTC723	0
SIGNS TO BE REMOVED	-	-	-									
DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS												
Conceptual Sketch: 02/03/21			Final Sketch Plan: --/--/--			Final Design: 30/08/21						
For tendering purposes only: --/--/--			Issued for construction: --/--/--			W.A.E.: --/--/--						