



PERMIT TO WORK

WITHIN THE

ROAD RESERVE

Version 3 – June 2010

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Permit to Work Within Road Reserve



MINOR WORKS APPLICATION

(To be completed and returned to enable the issue of a Permit)

- 1. APPLICANT'S NAME: _____
- 2. APPLICANT'S POSTAL ADDRESS: _____
- 3. ADDRESS AND PROPERTY DESCRIPTION WHERE WORK IS TO BE CARRIED OUT: _____

- 4. NEW DWELLING EXISTING DWELLING OTHER

5. WE HEREBY APPLY FOR PERMISSION TO CONSTRUCT THE FOLLOWING WORKS:

- Temporary Road Closure
- Invert Crossing and Concrete Driveway
- Rural Access
- Bitumen Sealed Turnout/Shoulder
- Irrigation Pipes
- Concrete Footpath
- Stormwater Connections
- Underground Utility Service Crossing
- Tracked Cane Harvesting Equipment Crossing Application
- Other Works (Provide Description) _____

5. SITE PLAN

A Site Plan or sketch (to scale) indicating location details and dimensions of the proposed works must be submitted with this application.

6. WORK ZONE TRAFFIC MANAGEMENT PLAN

Plan designed in accordance with MUTCD Part 3 by a person currently accredited in 'Work Zone Traffic Management' in accordance with the Transport Operations (Road Use Management – Accreditation & Other provisions) Regulation 2005

Prepared By: _____ Accreditation No. _____
 Site Supervisor's Name: _____ Required: _____ YES / NO

7. INDEMNITY

Public Liability Insurance to minimum \$20Million, Copy to be attached.

- Policy No. _____
- Policy Holder _____
- Insurer _____
- Expiry Date _____
- Copy Attached YES / NO

8. APPLICANT'S DECLARATION

I / WE understand that the Permit is granted under the terms and conditions attached and specifications included in Council's document 'Permit to Work Within Road Reserve' and 'Temporary Road Closures' and have read those conditions and understand their meaning.

I / WE enclose the current administrative charge for the application which is non-refundable once the application has been received.

APPLICANT'S SIGNATURE: _____ DATE _____

PRIVACY DISCLAIMER
 Mackay Regional Council is collecting your personal information in order to process your application. This information will only be disclosed to any other third party with your written authorisation or as we are required by law.

PHONE CONTACT NO _____

FOR COUNCIL USE ONLY

PERMIT No.: _____ DATE ISSUED: _____

INITIALS: _____

Date Received _____ Receipt No. _____ Amount Paid _____ Initials _____

MWKS P/P _____ Is Application Signed Common Property (Private Road) YES / NO

1. CONDITIONS OF APPROVAL

The Applicant understands and agrees to comply with the following conditions and specification as part of the approval to work in the road reserve.

1. Submit Application for Permit and Traffic Management Plan no less than fourteen (14) days prior to work commencing. Site conditions may alter during the period of works whereby a reassessment of traffic control and other factors may need to be made. Such factors may be influenced by weather conditions, traffic density, presence of children etc.

2. DEFINITIONS

Long Term – applies when traffic guidance is required to operate for both day and night and may be left unattended.

Short Term – applies when work is started and completed in one shift and the road is returned to normal conditions.

3. Supply an image, preferably digital, of the site prior to the commencement of works. Provide a video image when the proposed works cover a large area.
4. Comply with the requirements of this Specification and all other relevant standards relevant to the proposed work, and take all reasonable steps to ascertain the requirements of these Specifications.
5. Keep the road open to bi-directional traffic at all times unless the Manager Technical Services has given approval in writing for the road to be fully or partially closed.
6. Observe all necessary safety precautions and requirements relating to signs, barriers and warning devices for works in progress in accordance with the approved Traffic Management Plan designed in accordance with Australian Standard AS 1742.3 – Manual of Uniform Traffic Control Devices and complying with the requirements of Traffic Management for Construction or Maintenance Work Code of Practice 2008 and Queensland Department of Main Roads' Manual of Uniform Traffic Control Devices. Furthermore, provide safety lights, barricades and signs in accordance with any special requirements imposed by Council that may be in addition to the preceding conditions. For example, working times are noted in this Specification.
7. The issue of this permit requires the Applicant to reinstate the 'Site of Works' to its original condition at no cost to Council. Backfill and reinstate excavations in accordance with the EARTHWORKS section of this Specification. Where the reinstatement works are not satisfactory, the Manager Technical Services will notify the Applicant in writing. The Applicant is required to deal with the issues immediately, otherwise a third party will complete the reinstatement at the Applicant's expense, including all costs incurred by Council.
8. Accept complete responsibility for determining the location of all services and equipment of other Authorities in the vicinity of the described area and take steps to protect any such equipment and services that are located in the area. Report immediately any damage caused to both service authority and Council and take responsibility for costs of repairs.
9. Pay all costs associated with repairs and reinstatement works due to the implementation of the requirements of this permit.

DECLARATION:

Signed:		Date:	
Printed Name:		Position:	
Company:			

2. PROVISION FOR TRAFFIC

2.1 Standards

Conform to the following Standards and Publications unless specified otherwise:-

AS 1742.3	Manual of Uniform Traffic Control Devices – Traffic Control Devices for Works on Roads.
AS/NZS 3845	Road Safety barrier systems
MUTCD	Part 3 Manual of Uniform Traffic Control Devices – Queensland Department of Main Roads.
AUSTROADS	Guide to the Geometric Design of Rural Roads
AUSTROADS	Bridge Design Code
	Traffic Management for Construction or Maintenance Works Code of Practice 2008

2.2 General

Minimal obstruction and inconvenience is to be caused to the public.

The applicant shall assume responsibility for the safe conduct of traffic through or around the works, 24 hours a day from possession of the site to completion of all works.

2.3 Work in Urban Areas

Accept complete responsibility for determining the location of all services and equipment of other Authorities in the vicinity of the described area and to take steps to protect any such equipment and services that are located in the area. Report immediately any damage caused to both service authority and Council and take responsibility for costs of repairs.

2.3.2 Working Times

Program work and install signs accordingly so that traffic is not impeded during the following peak traffic periods.

0700 hours to 0900 hours
1500 hours to 1600 hours

Remove or cover signs as appropriate to prevent confusion during these hours.

General working hours shall be as specified by the Environmental Protection Authority in relation to work related noise generation, ie.

Monday to Friday	7.00 am – 7.00 pm
Saturday	7.00 am – 7.00 pm
Sunday & Public Holidays	8.00 am – 6.30 pm

Any proposed works outside these hours may only be undertaken with Council's approval.

2.4 Traffic Management Plan – Notice

Submit the Traffic Management Plan to the Manager Technical Services a minimum of fourteen (14) working days before the commencement of work.

The Traffic Management Plan must be designed, modified and supervised by persons who are accredited Traffic Controllers appointed under the Transport Operations (Road Use Management – Accreditation & Other Provisions) Regulation 2005.

Design the Traffic Management Plan in accordance with AS 1742 and Queensland Department of Main Roads Manual of Uniform Traffic Control Devices Part 3.1 'Traffic Control Devices for Works on Roads' and complying with the Traffic Management for Construction or Maintenance Work Code of Practice 2008. Produce the plan by electronic means, eg. Computer Aided Drafting (CAD) and submit the plan to the Manager Technical Services via electronic means, eg. e-mail, computer disc etc.

Include the following details on the Traffic Management Plan:

- The name of the Traffic Management Plan designer.
- The name of the Traffic Management Plan supervisor.
- The registration number and expiry date of the Traffic Management Plan designer and supervisor's accreditation.
- Address all of the issues relevant to traffic conditions at the work site. The Manager Technical Services reserves the right to request modifications to the plan during the works.

As a minimum address the following issues:-

- The work zone speed limit. Submit proposals to alter speed limits to the Manager Technical Services fourteen (14) working days prior to the erection of signs, for approval under the Transport Operations (Road Use Management) Act.
- Restriction to existing lane use.
- Changes to existing lane use.
- Works being carried out under traffic and traffic control arrangements.
- The need for detours.
- Night work and work site illumination.
- Separation of traffic and work areas.
- Sign spacing.
- Advance warning of the works.
- How to maintain and control the "Daily Routine Tasks and Record Keeping" – Appendix A of AS 1742.3.
- Development of traffic management as the work site develops.
- Separate traffic plans for discrete work elements, for example, lane closure arrangements for each stage of a multi lane rehabilitation project to be carried out under traffic.

2.4.1 Approval of Traffic Management Plan

Subject to the Traffic Management Plan being acceptable and the applicant's provision of a Certificate of Currency for Public Liability Insurance and completion of a signed Deed of Indemnity, approval of the Traffic Management Plan may be granted by the issue of a 'Letter of No Objection'.

However, if part of a road is to be closed to facilitate the works, the Applicant will require a permit from the Queensland Police Service. Council would issue a '*Letter of No Objection*' to the closure, so that this can be obtained.

2.4.2 Traffic Management Plan Audits

A copy of the Traffic Management Plan and any amendments will be retained in a central register under the control of Council.

Inspecting Officers may perform random audits of traffic management at work sites as part of their daily routine duties.

These audits will include assessment of the Traffic Management Plan in progress and observation of the routine daily tasks and record keeping for traffic control at the work site, including modifications to the Traffic Management Plan.

If traffic control is not being carried out in accordance with the Traffic Management Plan or the Inspecting Officer deems modifications to the Plan necessary, the Manager Technical Services will arrange for corrections to be carried out immediately at no cost to Council.

2.5 Warning Devices

Take care when placing warning signs, work signs, traffic management devices, or plant and equipment within the road reserve to ensure that these do not interfere or restrict sight lines, particularly at intersections, or are obscured by trees.

Road work signs should reflect the current conditions of the site. Queensland Department of Main Roads MUTCD and Australian Standard AS 1742 provides guidance on appropriate use of these signs.

2.5.1 Works in Progress Signs

NB: Short term works in Mackay CBD are excluded from the requirements of Clause 2.5.1.

Whilst works are in progress display signs, sized 1200 x 900 mm with 100 mm high black Helvetica medium lettering on a white background will be installed displaying the following details:

- The nature of the works
- The start and end date of the works
- The Contractor's business name
- The Contractor's business phone number
- The Contractor's after hours phone number
- The name of the Traffic Management Plan Supervisor.

Display these signs prominently at the extremities of all works in progress and in addition to the work signs requirement. They will remain the contractor's property.

Place advisory works signs at the start and end of the works next to the project noticeboards.

2.6 Traffic Control

Carry out the works using traffic control as defined by the Traffic Management Plan under the supervision of an accredited Traffic Controller.

Modify the Traffic Management Plan during the works to suit site conditions if required or requested by the Manager Technical Services. The Manager Technical Services **must** endorse all changes to the Traffic Management Plan.

If an incident occurs within, on approach to or departure from the work site a photographic record of the traffic control should be made as soon as practical. Advise the Manager Technical Services of the incident as soon as possible.

Single lane operation of two-way traffic will only be permitted when traffic is directed by traffic controllers, signs or portable traffic signals, dependant on the site conditions.

2.7 Access to Adjacent Properties and Side Roads

Maintain access to adjacent properties and side roads at all times to a level appropriate for the type and frequency of traffic. Liaison must be undertaken with adjacent property owners to advise of proposed traffic flow modifications and ensure access to these properties is maintained.

Provide and erect signs detailing alternative access.

Ensure adequate access is maintained for pedestrians and cyclists as required, including delineated access if paths are closed.

2.8 Temporary Bridging

Design and construct any temporary bridging in accordance with the "AUSTROADS" Bridge Design Code.

Provide and erect fence or guard rail to prevent accidental access to the feature being bridged.

2.9 Contractor's Plant and Equipment

Provide public traffic right of way at all times unless traffic control is in use.

Keep parking and materials storage clear of trafficked areas.

Do not leave equipment or tools unattended as a hazard to the public.

Floodlight the road and area within 50 m of the site when working at night, to a ground level illuminance of 10 lux minimum.

2.9.1 Rotating Beacons of Plant

Provide a rotating yellow beacon on the roof of all plant and equipment, fitted with a minimum 55 watt globe or equivalent strobe light, in accordance with Queensland Department of Main Roads MUTCD requirements.

Ensure that the light is operational whenever the plant or equipment is working on the roadway.

Ensure that the light is visible from all approaches and not obscured by exhaust stacks, back hoe arms etc., or covered in dust.

Protect the lights from damage by scrub etc.

Fit service vehicles with vehicle mounted warning devices in accordance with MUTCD and AS 1742.3.

2.10 Restoration

Upon completion of works:

- Remove all temporary warning devices and traffic control measures.
- Remove all temporary works and reinstate the areas to reflect their natural state.
- Reinstate permanent traffic control devices temporarily removed during the works.

2.11 Clearing & Grubbing

Any declared weeds identified at the site shall be treated before clearing work starts. Council's Land Protection Officer can advise on appropriate identification and treatment.

Clearing and grubbing (for the proposed works) shall be the minimum needed for the installation of the works, either adjacent to the property, or on the approved alignment.

Materials cleared and grubbed shall be disposed of, as approved by the Manager Technical Services, or his representatives, in the following manner:-

- (a) Millable timber, or other materials that have a commercial use, shall be separated and treated to permit its sale or re-use. The constructing authority shall liaise with the Department of Primary Industry and Forestry with respect to royalties and sale.
- (b) All trees and vegetable material up to 100 mm diameter shall be mulched for re-use on site, along the disturbed area as an aid to revegetation and to assist in stabilisation of the site.
- (c) Material not mulched or of commercial value shall be stockpiled at approved sites along the road reserve, to provide habitat for local fauna. No stockpiles are permitted adjacent to the property boundary (as this may create a fire hazard) or in drainage lines. All stockpiles shall be outside of the clear zone – refer Section 8 of the Department of Transport and Main Roads Road Planning and Design Manual.
- (d) Council may order all cleared and grubbed material to be burnt if the options above are impracticable.
- (e) Grub holes are to be backfilled and the whole of the disturbed area graded to maintain the shape of the existing terrain.
- (f) Council may require all non-usable materials to be removed from the road reserve and disposed of at a site approved.

Such work is to be to the satisfaction of the Manager Technical Services or his representative.

2.12 Services

The Applicant shall verify the existence and location of any underground, or overhead, public utility services that construction of the proposed works may affect. If such services do exist, the Applicant is to liaise with the relevant Authority to prevent any damage to such service. The Applicant shall also maintain the minimum horizontal and/or vertical clearance (as stipulated by the service authority) from any underground, or overhead,

services. Any relocation or protection of underground, or overhead, services shall be carried out at no cost to Council.

2.13 Roadway and Road Reserve Repairs

The Applicant will be required to repair, or cause to be repaired, at his own expense any damage to the roadway and/or road reserve due to the existence of the service.

2.14 Enveloper Pipes

A steel, concrete or other approved enveloping pipe is to be installed for the full width of the road formation. Minimum coverage for the enveloping pipe and for the service throughout the road reservation shall be in accordance with the attached Appendix.

3. EARTHWORKS

3.1 Excavation

3.1.1 Sealed Roads

Open excavation within sealed pavements is not permitted without approval and will not be approved on major roadways. Install pipes, conduits, etc. by thrust boring under the road.

All thrust boring under sealed pavements shall confirm to THRUST BORING section.

Do not excavate thrust boring pits closer than 3 m to the edge of the sealed road without prior written approval from the Manager Technical Services.

Depth of thrust boring to be no less than 1 m below the road surface.

3.1.2 Unsealed Roads

Open excavation within unsealed roads is permitted.

3.1.3 Excavations

Do not excavate within 1 m of any road element, eg. kerb and gutter, drainage structure, etc., without the prior approval of the Manager Technical Services.

Reinstate any landscaping and/or structure damaged or disturbed as a result of the work. Undertake remedial works as directed by Council.

Pay all fees associated with the location of all utilities in the vicinity of the excavation, prior to commencement of the works.

Pay all costs associated with the repairing of utilities damaged by the excavation works.

Fence the excavation as per the requirements of the Workplace Health and Safety Act.

Provide adequate shoring, conforming to the requirements of the Workplace Health and Safety Act to prevent the collapse of a trench where the trench walls are saturated or unstable.

Benching of trench walls is not permitted.

Provide all warning signs and lights.

3.2 Backfilling and Reinstatement

Backfilling of trenches and reinstatement of the pavement shall be in accordance with Plan A3-845 appended. The backfilled trench shall be levelled and checked with a straight edge to ensure that work is not '*proud*' of the existing road.

3.3 Future Works

Provision should be made for future extension of a service to avoid subsequent disruption of traffic and damage to road pavements.

3.4 Cost

The cost of all work, including the restoration of the road reserve to a clean and tidy condition acceptable to Council shall be the responsibility of the owner/s.

3.5 Supervision

All work within the road reserve is to be carried out under the supervision of Council's Maintenance Supervisor. In this regard it will be necessary for contact to be made with Council before commencing any work within the road reserve.

3.6 Certification

The Applicant is to provide written certification that all works have been constructed in accordance with these conditions, standard drawings and/or any other standard, or job specific, conditions specified at the time of approval for the works to be constructed.

The certification may be from either the Council's Maintenance Supervisor, or the Registered Professional Engineer of Queensland (RPEQ), whoever supervises the works.

3.7 Future Works and/or Maintenance

3.7.1 By Applicant

The Applicant shall be required to remove or protect the service during any rebuilding or maintenance operations of the road, and may be called on to do so at their own expense.

3.7.2 By Council

All reasonable care will be taken during future roadworks construction, however the installation of a service must in no way interfere with the work of maintenance personnel. Council accepts no responsibility for damage to the service during any maintenance or reconstruction work.

3.8 Rural Road Accesses & Turnouts

Standards required by Council in relation to construction of these items is shown on Plan A4-25. Council's Maintenance Supervisor is required to certify acceptance for each stage of the works prior to the works progressing. Given the possible conflict with traffic flow the Applicant should ensure that a relevant traffic control plan is prepared and lodged together with other documentation as specified previously.

4. THRUST BORING

4.1 General

This section specifies the installation of piping beneath trafficked surfaces, buildings or other nominated areas without trenching, disruption to traffic or subsidence.

4.2 Standards

Conform to the following Standard unless specified otherwise:-

AS 1579 Arc Welded Steel Pipes and fittings for Water and Waste Water.

4.3 Proposed Method – Approval

Approval – Submit details of the proposed method of thrust boring not less than fourteen (14) days prior to commencement of construction using that method. Include details of proposed filling of cavities. No disruption or excavation of the surface is to take place over the length nominated.

4.3.1 Thrust Boring

Keep dimensions of jacking pits to the minimum necessary.

Use pipe jacking equipment inspected and approved by the Department of Industrial Relations.

HARD COMPETENT MATERIAL: Material with sufficient strength to be self supporting without the use of a pipe casing, and must be accepted as hard competent material by DIPE.

4.3.2 Thrust Boring with Pipe Casing

Use pipe casing for thrust boring greater than 200 mm in diameter and in material other than hard competent material.

Use a welded mild steel pipe casing manufactured in accordance with AS 1579 and of sufficient strength to withstand the forces generated irrespective of the nature of subsurface material encountered.

Ensure the inside diameter of the casing is double the maximum outside diameter of the pipe joints, skids, cradle runners or other protrusions related to pipe insertion.

4.3.3 Thrust Boring Without Pipe Casing

Thrust boring less than 200 mm in diameter and in hard competent material.

Thrust bore the hole cleanly without projections to a diameter at least 50 mm greater than the maximum outside diameter of the pipe joints, skids or other protrusions related to pipe insertion.

Use plastic skids extending the whole length of the pipe apart from joints to ensure the pipe is at least 10 mm clear of the hole perimeter. Insert the pipe so that the joints are neither stressed nor pulled apart.

4.3.4 Filling of Cavities

Carry out grouting of the pipe/casing cavity with pumped cementitious grout (Class N20) containing an appropriate plasticizing agent. Pipe to be full of water under a pressure equal to normal expected operation pressure.

5. PIPE WORK CONSTRUCTION AND INSTALLATION

5.1 General

The initial application to be submitted in writing shall indicate the following details:-

- Pipe carrying water/effluent or other.
- Location of pipe (road, location, grade, etc)
- Plan of location showing roads, services and property alignments

When works have been completed for essentially private assets, an 'as constructed' plan of pipe location drawn to scale is to be submitted to Council together with an Indemnity by the owner guaranteeing maintenance from the date of commissioning.

5.2 Standard Conditions for Pipe Construction

Conditions associated with applications of this nature shall meet those contained in the '*Standard Conditions for the Installation of Services Within the Boundaries of Council Controlled Roads/Lands*' and those indicated as follows:-

- Pipes carrying water/effluent etc for public use shall be installed in accordance with conditions specified by Mackay Water.
- The pipe shall be placed in position and in a manner approved by the Manager Technical Services and shall be maintained to the satisfaction of that Officer.
- The pipe shall be placed so that there is minimum of 600 mm from the natural surface to the top of the pipe in non-trafficable areas and 1000 mm in trafficable areas.
- Where the pipe crosses the table drain or at any point along a table drain it shall be at least 600 mm below the bottom of the table drain.
- Spatial alignment from property boundary shall be in accordance with those detailed on the following plans dependent on the hierarchial classification of the road involved:-
 - A3-4095 - 'Standard Service Corridor – Cross Sections (Urban)'
 - A3-4096 - 'Standard Service Corridor – Cross Sections (Rural)'
- After laying the pipe the surface of the road reserve and roadway must be restored to their prior condition at the Applicant's expense and to the satisfaction of the Manager Technical Services and as previously indicated.
- Materials utilised in the installation including pipe, enveloping pipe and bedding/backfill materials shall be in accordance with the relevant Australian Standards.
- The work shall proceed without the interruption of traffic and the Applicant shall take any steps necessary for the protection of traffic, pedestrians, plan and workers, on or along the road.
- The Applicant will be required to remove or protect the pipe at his own expense during any rebuilding or maintenance operations on or along the road.

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- Council will not be responsible for the cost of any repairs to the installation damaged during maintenance operations or new works.
- The Applicant will be required to repair or cause to be repaired at his own expense any damage to the roadway due to the existence of the pipe.
- The location of the pipeline to be clearly marked by marker signs, on each end of the section running along the road reserve.
- These conditions are to be read in conjunction with any standard specifications relevant to the works, which may be nominated by Council.
- The Applicant, by accepting the above conditions, indemnifies the Council and its Officers against any claim, action or process for damage or injury which might arise during the progress of the work, and shall keep indemnified the Council and its Officers against any claim, action or process for damage and/or injury which might arise for the existence of the pipe.
- This authority may be withdrawn by the Council at any time giving thirty (30) days notice in writing and if so required by the Council, the Applicant shall remove the pipe at his own expense. If the Applicant fails to remove the pipe within the time specified, the Council may cause the pipe to be removed and recover the cost from the owner.
- All pipework installation shall be undertaken such that clearances to water and sewerage assets are maintained in accordance with Mackay Water Policy No. MW 16 appended hereto.

6. LANDSCAPE

6.1 Standards

Conform to the following Standards and Publication unless specified otherwise:-

AS/NZS 3500.1.2 National Plumbing and Drainage – Water Supply
AS 4419 Soils for Landscaping and Garden Use

6.2 Protection of Existing Vegetation

Ensure all trees, shrubs, and other vegetation to be retained within the limits of work are not damaged. Protect vegetation prior to commencing construction work in the vicinity of that vegetation.

Do not place or dump any chemical type materials including oil, paint, bituminous products, fuels, and cement/concrete near the vegetation. Prevent windblown chemical type materials, such as cement, from affecting vegetation.

Do not stockpile bulk materials – such as spoil from excavation, boulders, cleared vegetation unless essential to the works. For any excavation within the drip line, keep open for as short a period as possible, and use excavation methods that preserve the root system intact and undamaged.

Cut roots only where it is absolutely necessary. When cutting roots use a means which does not disturb the remaining root system.

Backfill excavation around tree roots with material of at least comparable quality to that excavated. Consolidate backfill and do not backfill around trunks above the original level. Thoroughly water backfilling.

Avoid damage to overhead limbs by machinery. Only remove the minimum amount required if limbs must be removed to allow machinery to work.

Where branches are to be removed, cut them back to the branch collar, leaving neat cuts.

6.3 Removal of Trees and Other Vegetation

Obtain Council approval before the removal of any tree, shrub or other vegetation.

Replace any tree, shrub or other vegetation, that has been removed, with new vegetation of the same species to the satisfaction of Council.

Remove from site any tree, shrub, or other vegetation removed or destroyed as a result of the works and dispose of at a recognized Council rubbish dump.

6.4 Damage to Trees, Shrubs and Other Vegetation

Replace any tree, shrub or other vegetation, that has been damaged as a result of the work deemed by Council to require replacement, with new vegetation of the same species to the satisfaction of Council.

Replant with trees of 100 litre bag size, and of the same species as that removed, to the satisfaction of Council. Failing availability of the same species at 100 litre bag size, Council will advise of an alternative species.

6.5 Trenching in Grassed Areas

For backfilling of trenches in grassed areas, place topsoil for the last 100 mm of backfill, compact slightly so as to minimise subsidence.

Comply with AS 4419 for topsoil and seed using a mix of the following seed mix per hectare evenly spread:

50 kg Speedy Couch
20 kg Wimmera Meygrass (*Ulium rigidum*) (March to July only)
10 kg Japanese millet (August to February)
Cropking 55 Fertiliser applied at 350 kg/ha

6.6 Damage to Irrigation Systems

Engage a Certified Irrigation Designer with competency in Landscape/Turf Commercial requirements, as recognized by the Irrigation Association of Australia, to carry out repairs to irrigation systems damaged as a result of the work.

Conform to AS/NZS 3500.1 when carrying out repairs.

Flush the irrigation systems after each repair.

Pressure test all repairs upstream of solenoid valves.

Carry out a final inspection using an approved irrigation installer prior to the placement of backfill.

After repairs to damaged wiring and conduit caused as a result of the work, test the entire electrical control system to ensure no adjacent faults, to the satisfaction of the approved Irrigation Installer.

6.7 Footpath/Driveway Restoration/Construction

Where removal/restoration of footpath is required, the following standards shall apply:-

- Concrete footpaths shall be broke out by sawcutting for a minimum width of one bay and replaced with natural coloured concrete, or in the case of feature footpaths replace with existing colour and pattern. Slabs shall be generally reinstated in accordance with the requirements of Plans A2-500 or A3-989 (Mackay CBD) dependent on the site location.
- The minimum dimension of any remaining slab shall not be less than 1.5 metres in any direction.
- Feature driveways shall have the full slab replaced to the property boundary in existing colour and pattern.
- Pram ramps shall be replaced in their entirety and are to comply with Council's standard drawing, attached.
- Asphalt paths shall be broken out to a minimum of 300 mm on each side of the trench and backfilled with compacted stabilised sand, crusher dust or crushed rock pavement material, finished with a minimum of 25 mm thickness of compacted asphalt.

Permit to Work Within Road Reserve

- Kerb and channel details and invert details are appended on Plans A3-865 and A3-773

7.0 TRACKED CANE HARVESTING EQUIPMENT CROSSINGS

At locations where such equipment is required to cross existing roadways the following conditions shall apply:-

- Applications are to be approved on an annual basis
- The Applicant agrees to pay the cost of the maintenance and repair of any damage of the road pavement and surfacing at the site of the crossing where such damages occur as a result of the use of the crossing by the tracked harvester.
- The owner/operator of the harvesting equipment shall provide advance warning vehicles and signs 250 m minimum either side of the approved crossing site. The vehicles including the harvester must be equipped with flashing amber lights and must be in two (2) way radio contact with each other. The advanced warning signs shall be "SLOW VEHICLE CROSSING 250 M" (TC 9891 as per the *Manual of Uniform Traffic Control Devices*) and are to be displayed on or near advance warning vehicles.
- Tracked Harvesters shall give way to all traffic at all times.
- Track Harvesters are not permitted to cross road reserve in rainy or foggy weather.
- Tracked Harvester Operators are to avoid any sudden changes of direction when travelling on the road reserve so as not to cause damage to the road surface, open drains or any of Council's infrastructure.
- Walking of machines along bitumen or shoulders of the road is not permitted.
- The Applicant shall take out Public Liability Insurance against any claims for any injury and property damage resulting from the use of this harvester crossing. This insurance is to show Mackay Regional Council as an interested party and have a minimum cover of \$20Million. A copy of this Policy and current certificate is to be forwarded to Council as per previous advice.
- The applicant shall pay all costs associated with the maintenance and repair of any damage to the road and causeway caused by the harvester crossing.
- Failure to comply with the conditions set out may result in the cancellation of the permit.

8.0 CULTURAL HERITAGE

The owner/s must undertake searches to determine whether there are any Cultural Heritage sites along the route of the proposed service. These sites may be of significance to either indigenous or non-indigenous persons or groups. All costs associated with complying with Cultural Heritage requirements shall be borne by the owner/s of the proposed service.



APPENDIX



DEED OF INDEMNITY

IN CONSIDERATION of MACKAY REGIONAL COUNCIL giving approval to:

including its servants, agents and volunteers (*"the Applicant"*), to use a portion, or all, of the following Council-controlled roads, namely:

➤ (the Land")

to

or until otherwise advised by either the Applicant or Mackay Regional Council ("The Work")

the Applicant indemnifies, and agrees to keep indemnified, Mackay Regional Council, its agents and employees from and against all losses, damages, costs and expenses which the Mackay Regional Council sustains or incurs in respect of any loss or damage to property or death or injury (including from the negligent use or misuse or the escape, overflow or leakage of water, fire, gas, electricity or other agent in or from the Land) which is caused or contributed to by the Applicant's carrying out the Work on, or the use or occupation of the abovementioned street/s ("the Land") except to the extent that such loss, damage, death or injury is caused or contributed to by the act or omission of the Mackay Regional Council or its agents or employees

Subject to law, the Applicant will enter the Land and carry out the Work on the land at its own risk.

SIGNED SEALED AND DELIVERED BY:-

{Print Name] on behalf of)
)
 (Signature/s)
this day of 20)
in the presence of:-)

(A Justice of the Peace/Commissioner for Declarations)