



PENRITH CITY COUNCIL

APPLICANT CHECKLIST VEHICLE CROSSOVERS

- Proof of \$10m Public Liability Insurance
- Signature of Property Owner and/or Contractor
- Contractor details supplied

N.B. Formwork inspections are to be booked in 24 hours prior, or before 11.00am for same day PM inspections.

The Application Number MUST be given when booking in an inspection.

The final approval will be automatically carried out 14 days after a satisfactory formwork inspection. It is expected that after 14 days all backfilling etc. will have been carried out to Council's satisfaction, and if any additional inspections are required, a cost of \$45.00 per inspection will be applicable.

Council reserves the right to refuse the receipt of applications from Contractors who have not supplied details or have outstanding issues from previous vehicle crossings.

**** This information pack is available on our website at:
www.penrithcity.nsw.gov.au ****

NOTICE

PLEASE READ CAREFULLY

CHANGES TO VEHICLE CROSSOVER CONSTRUCTION WITHIN THE PENRITH CITY COUNCIL AREA

Please be advised that Telstra have notified Council that Telstra manholes and/or pits will not be accepted in vehicle crossovers.

You are therefore advised to take into account these pits/manholes prior to construction to ensure that the proposed crossing will not be affected by Telstra pits.

Telstra advises that any vehicle crossing proposal that may incorporate a Telstra manhole/pit would be unacceptable in their view, posing a threat to the Occupational Health and Safety of Telstra staff and furthermore, adversely impact Telstra's ability to adequately service the network and their customers.

Where an existing manhole/pit is already located in the proposed vehicular crossing location approval must be given by Telstra by using the following procedure:

STEP ONE: (to confirm ownership of manhole/pit)

Dial Before You Dig

Phone: 1100

Fax: 1300 652 077

www.dialbeforeyoudig.com.au

STEP TWO: (on confirmation of Telstra ownership of the pit)

Telstra

Phone: 132 200

(Sales & Billing will then transfer to a contractor for further information and approval)

www.telstra.com.au/dialbeforeyoudig/index.htm

Council will not accept vehicle crossover applications that incorporate or impact on Telstra manholes/pits without written permission, ie. Clearance from Telstra. In addition, proposed vehicle crossings must be located a minimum of 1 metre from stormwater drainage pits in residential areas (2 metres in industrial areas), Integral/Telstra poles, electrical boxes and no closer than 6 metres to the kerb tangent point near street corners.

Gary Lawson
Engineering Co-ordinator

CONDITIONS GOVERNING VEHICLE CROSSOVERS

Footpath crossings and footpaving construction may only be carried out by property owners, or licensed contractors, subject to the following conditions.

1. No work is to commence on Council property until a 'Footpath Crossing Application' is lodged and received by Council. Failure to do so will incur infringement notices and fines.
2. All contractors who wish to perform work on Council property within the Penrith LGA must lodge with Council (prior to work commencing) a copy of their current Public Liability Insurance Policy, providing an indemnity limit of not less than \$10,000,000.00 (ten million dollars), and a copy of their relevant (current) contractors license.
3. Council will not be held responsible for any Public Risk Claims or otherwise, arising from incorrectly installed or unapproved footpath crossing or associated works.
4. The person carrying out the construction must also sign the application form, if they are not the property owner, to acknowledge their responsibilities.
5. Workcover approved barriers, for the protection of the public, must be erected and maintained at any worksite on Council owned or managed property.
6. The contractor/owner is responsible for all damage caused to any public utility located in the footway/road area that is damaged as a result of work performed.
7. All crossings must have the written approval from other Public Utilities, should their service be required to be relocated or remain in the crossing area. It is the owners responsibility to contact the relevant authority before any concrete is poured. A fee may be applied by the Authority concerned for this service.
8. Council is responsible for any future restoration work in plain grey concrete only, and the use of non-standard materials may require owners to meet any additional cost or to carry out the work themselves of any work by Public Authorities.
9. All stormwater pipes and outlets are to be relocated clear and are not be located within the crossover/layback area.
10. In cases where a new layback is required at a different location, approval will only be granted conditional on the unused layback being restored at the same time, unless both are to be utilised.
11. For crossovers to properties which are lower than the road surface, a cross sectional plan is to be submitted with the application, and an onsite meeting with Council's Engineering Co-ordinator is to be arranged, prior to any work commencing.

Inspections

All crossings and associated works are to be inspected when the formwork, steel, chairs, sand and pins are in place. Bookings for inspections are to be made by contacting Council's Co-ordinator prior to 11am for inspections that are PM or after 11am for next morning inspections Monday to Friday. Please ensure that you **quote the Application Number**, which is found on the bottom left hand side of the form.

Approvals/Non Approvals

1. Upon inspection, if the work is constructed to Council's satisfaction, an Inspection Certificate will be issued. It is the property owner/contractors' responsibility to ensure that approval is granted as non-approvals are also issued on the same form. Reasons for non-approvals are stated. The form is placed under the steel fabric on completion. If the form cannot be located, Council's Co-ordinator must be contacted before pouring on Council's property.
2. Any persons carrying out unauthorised work without an application being lodged will incur fines or default fee as defined under the Local Government Act. The removal of any concrete or material may also be ordered at the owners/contractors expense.

CROSSOVER AND LAYBACK SPECIFICATIONS

Standard Requirements

- A minimum concrete strength of FC20mpa. to AS 3600 is to be used in all crossovers and associated works.
- All crossovers are to be sited perpendicular (90 deg) to the kerb. Sides may be equally angled outwards from the boundary, but not inwards.
- Types of concrete allowed on Council owned property are: plain/coloured/stencil concrete; pavers. The use of stamped, exposed aggregate or pebblecrete are NOT allowed on Council owned property.
- The finished surface must be sufficiently rough so as to ensure safety for pedestrians and other users. In the case of concrete, the finished surface must NOT be finished in a smooth steel float finish. The surface of the crossover must NOT be coated with any epoxy type 'paint' or other sealant. These types of surfaces may result in a smooth finish, which can be slippery in wet weather.
- Concrete slabs without control joints must not exceed 6 metres in any direction or 36 sqm in area.
- Soil erosion and sedimentation control measures are to be maintained during the entire construction period until the disturbed areas are restored. Council may issue infringement notices including a monetary penalty where the control measures fail to meet minimum standards as required by Council policy and Acts of Law.
- When the formwork is removed, the excavated area is to be backfilled and leveled to the top of the slab, and made safe for pedestrian traffic. Maintenance of this area over the settlement period is the owner's responsibility.
- When lapping fabric sheets ensure a minimum of one grid plus 25mm is allowed and sheets tied together.
- Sand, or a similar fine-grained material, to a compacted depth of 30mm is to be placed under concrete.
- Steel mesh is to be firmly supported on bar chairs at a maximum spacing of 1.2m, and shall have a minimum concrete cover of 40mm.
- Where it is not possible to have the finished crossover level with the existing footway, then the footway is to be graded to a maximum grade of 1:14 to meet the new crossover. The reinstatement of concrete footpaving if damaged or removed is the property owner's responsibility to have reinstated.
- A movement control joint is to be placed at the property boundary. Full depth mastic or similar is also to be used at the layback joint.
- A maximum grade of 12% (1:8) with a minimum grade of 4% is allowed over the first 3 metres from the layback (where possible). If not possible an onsite meeting with Council's Engineering Co-ordinator is required.
- When reconstructing laybacks and/or K&G a sub-base of at least 200mm compacted thickness on a compacted sub-grade shall be provided in accordance with Council's Engineering Guidelines for Subdivision and Development Works (pt2).
- Council cannot guarantee that cracking, settlement, etc of the construction will not occur in the future and will not be held liable for any claims to repair or reconstruct crossings even though Council had originally inspected and approved the work.

Single Dwellings / Dual Occupancy

- Crossings are to be a minimum of 100mm thick with one layer of F72 mesh, wired on chairs, with 30mm of compacted sand or fine granular material, keyed into the layback with 12mm galvanised pins, starting 350mm from each side then at 900mm centres.
- Crossovers are to be a minimum of 3 metres wide (to be a maximum of 6 metres), for residential areas. If the gutter is badly cracked or damaged, the complete layback and gutter is to be removed. In this case, the road is to be sawcut 300mm from the gutter lip, and repaired at the property owner's/contractor's expense. The new gutter is to be poured to a board. If the gutter is in good condition, the kerb may be sawcut full depth at the invert with the gutter and a new layback constructed utilizing 12mm starter bars at 400mm centres.

Light Commercial / Light Industrial Units / Townhouse Units

Crossovers and laybacks are to be 200mm thick with one layer of F82 mesh, wired on chairs with a 30mm base of compacted sand or fine granular material. It is to be keyed into the layback with 20mm galvanized pins starting 500mm from each side then 900mm centres.

Heavy Commercial / Heavy Industrial

Crossovers and laybacks are to be a minimum of 15.5 metres wide (AS 2890.2 – 2002). A minimum depth of 225mm thick with two layers of F82 mesh, wired on chairs on a 30mm compacted sand or fine granular material base, keyed into layback with 20mm galvanized pins starting 500mm from each side then 900mm centres. Crossovers and laybacks must be poured separately with a movement control joint at the property boundary. As with residential laybacks, if the gutter is to be removed, the road is to be sawcut.

Pavers

Council has approved the use of heavy duty pavers for use in vehicle crossings, subject to the following conditions:

- Pavers must be laid on 30mm bedding sand on 75mm thick concrete with F72 mesh wired, on chairs, on a 30mm compacted sand base, keyed into layback with 12mm galvanized pins starting 350mm from each side then at 900mm centres.
- Pavers are to be laid in accordance with manufacturers specifications and are to be a minimum of 60mm thick.
- Pavers are to be placed, with a nominal gap between pavers and filled with fine sand or a suitable replacement.
- Owners are responsible for the maintenance of pavers - keeping them true and level at all times.
- Concrete edge restraints must be used to restrain the pavers and the sand.
- Pavers for townhouses and commercial crossings are to be laid on 30mm bedding sand on 100mm concrete with F72 mesh on bar chairs, on a 30mm compacted sand base, keyed into layback with 20mm galvanized pins starting 500mm from each side at 900mm centres.

Non-Standard Crossings

- The use of Stamped, Exposed Aggregate or Pebblecrete are NOT allowed on Council owned property.
- Any material other than plain grey concrete is classed as "non-standard". Property owners are advised that if the vehicle crossing is constructed in material other than plain grey concrete, Council will not be responsible for any restoration work as a result of works performed by Council, other than in plain grey concrete.
- All crossovers are to comply with AS/NZS 4663.2.2; AS/NZS 4586.1999; AS/NZS 3661.2.1994 in relation to non-slip finishes.

Rural Crossings

Due to the variances involved in rural areas - with differences in road reserves and table drain widths, a site inspection with Council's Engineering Co-ordinator must be held before any works commence, to ascertain levels, designs, etc.

Pipe Crossings

Pipes are to be a minimum of 300mm inside diameter supported by headwalls at either end, on a 100mm sand/cement base. A minimum of 100mm cover is to be provided over the top of the pipe and all drainage levels are to be calculated and checked prior to installation. See attached drawings for construction specifications.

Dish Crossings

Are to be constructed as per Council specifications. Dish crossings are to have a crossfall along the length of the table drain in the direction of the water flow.



PENRITH CITY COUNCIL

VEHICLE CROSSOVER APPLICATION - 2012/13

ROADS ACT 1993

Residential
(Owner Occ., Dual Occ.)

\$130 Each Entry
(GST Inclusive)

Medium Density
(Units, Townhouses)

\$260 Each Entry
(GST Inclusive)

Commercial/Industrial

\$260 Each Entry
(GST Inclusive)

I, Katherine Pedras Phone No. 8860 9224
(Owner's Name - please print)

of Eden Brae Homes Postcode 2153
(Owner's Current address)

Wish to install a:

Footpath Crossing Layback Footpath Dish Crossing Pipe Crossing

For my property at Lot 315 Rain-tree Street Suburb Chermondale
meadows

D.A. No. (if appl.): _____ Type of Finish: Plain Stencil/Coloured
(Stamped, Exposed Aggregate and Pebblecrete driveways are NOT permitted)

I acknowledge that:-

1. If the vehicular crossing is constructed in material other than plain grey concrete, Council will not be responsible for restoration or repairs in material other than plain concrete.
2. I am aware Council will not be responsible for any Public Risk Claims for accident or otherwise, arising from an incorrectly installed vehicular crossing.
3. I am responsible for contacting DIAL BEFORE YOU DIG 1100 for the location of other authorities services.
4. The proposed surface is to be non-slip finish to comply with AS/NZS 4663.2002; AS/NZS 4586.1999; AS/NZS 3681.2.1994.

Work will be carried out by: Owner Contractor

Contractor's Name Outback Paving Licence No 126730C Mobile No 0408 238032

Contractor's Address: 38 Greensborough Ave Rouse Hill Postcode: 2155

I understand that I am to observe the following conditions:

1. I am responsible for protection of the Public during construction (barricades, safe lanes etc.) and for all damage caused to any Public Utility by the construction of the crossing.
2. I am to book an inspection with Council's Engineering Co-ordinator by telephone (02) 4732 7562 twenty four (24) hours prior to the required inspection time, or prior to 11am for the same day afternoon inspections (Mon to Fri), QUOTING THE APPLICATION NUMBER (on payment of this application, the number will be noted below).
3. For work which is not formed up and ready to pour at the requested time of inspection, which is not cancelled prior to the inspection, an additional charge of \$64.00 will apply.
4. This application is only valid for 12 months from receipt date.

Contractor's Sig _____ Date: _____ Owners' Sig see attached Date: _____
(Person Carrying Out Construction)

Application No. _____ Receipt No. _____ Amount \$ _____ Date Paid _____

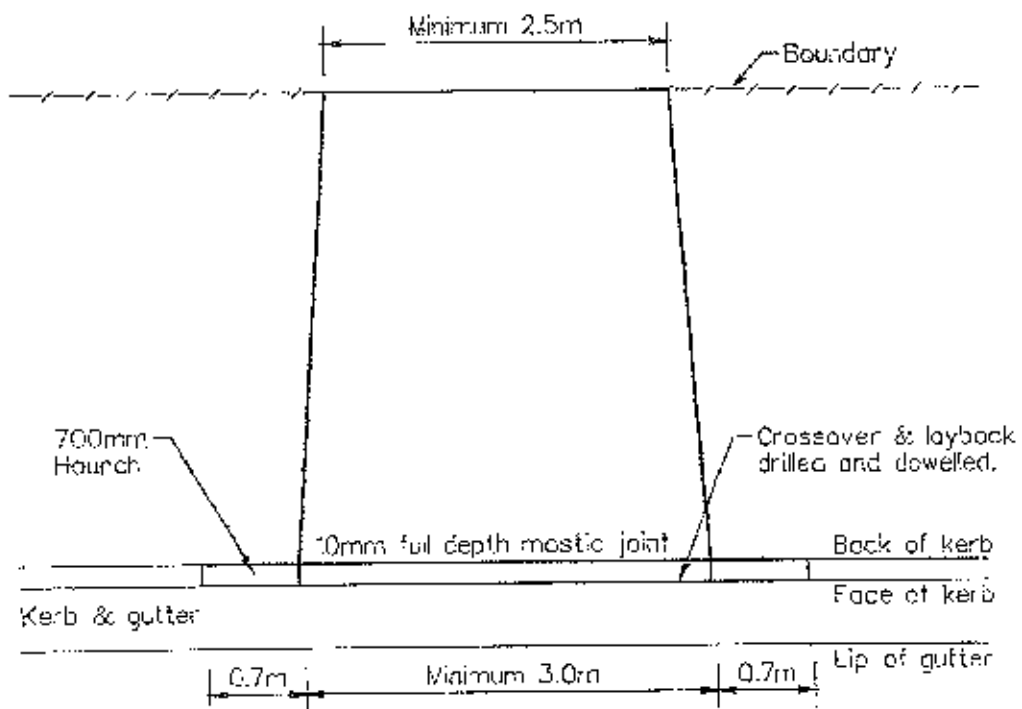
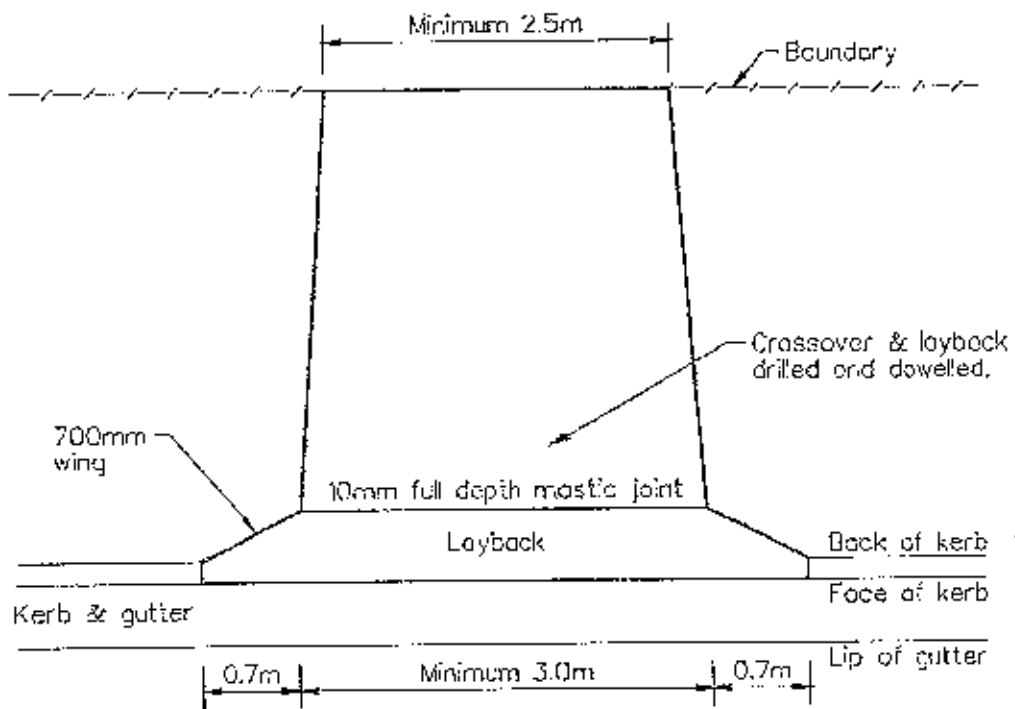
All Credit Card Payments attract a service fee of 0.6%

Credit Card Payments: Card type: MC / BC / Visa Credit Card No: _____

Exp. Date: _____ Name on card: _____

First Inspection _____ Final Approval _____ Not Ready _____

Signature _____ First Inspection Certificate No. _____

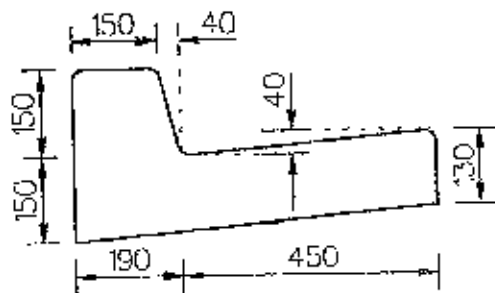


DESIGNED
DRAWN
APPROVED
DATE

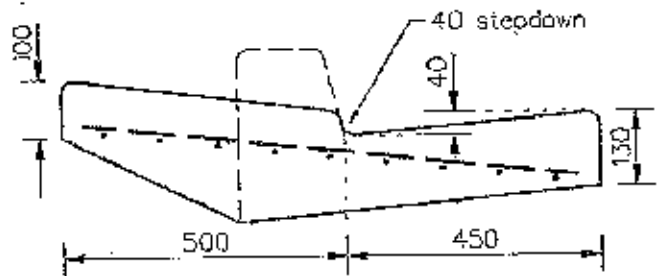
PENRITH CITY COUNCIL

FILE No.
PLAN No.

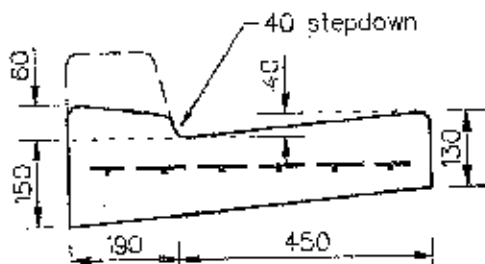
DRIVEWAY CROSSOVER



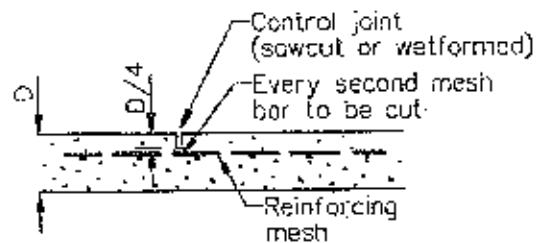
Nominal Integral K&G



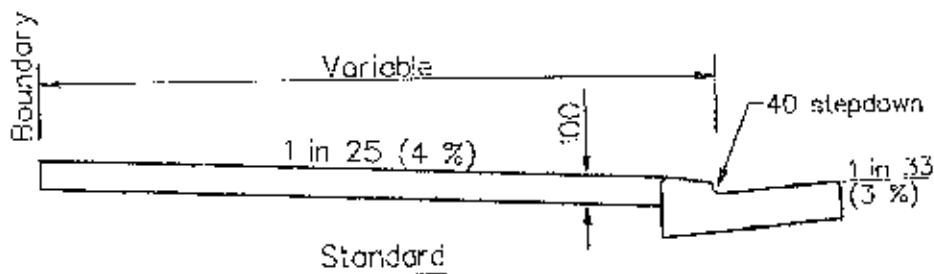
Low Level Footpath Vehicle Entrance (Layback)
Heavy Duty includes F82 mesh as shown



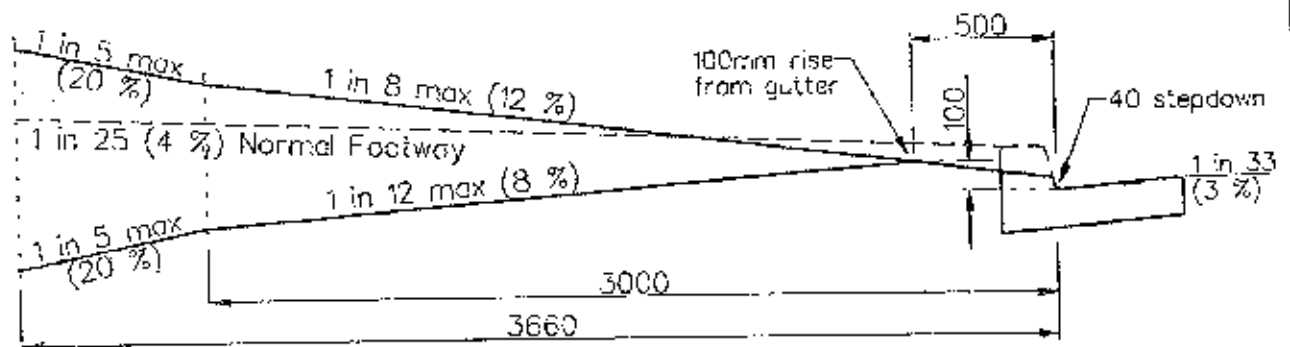
Kerb Vehicle Entrance 3m long
(normal) with two 700mm wings
Heavy duty includes F82 mesh as shown



Control Joint



Standard



Footway Crossing Profile - High & Low Level

Notes:
All dimensions shown are millimetres.
All exposed edges to be rounded
to 20mm radius.

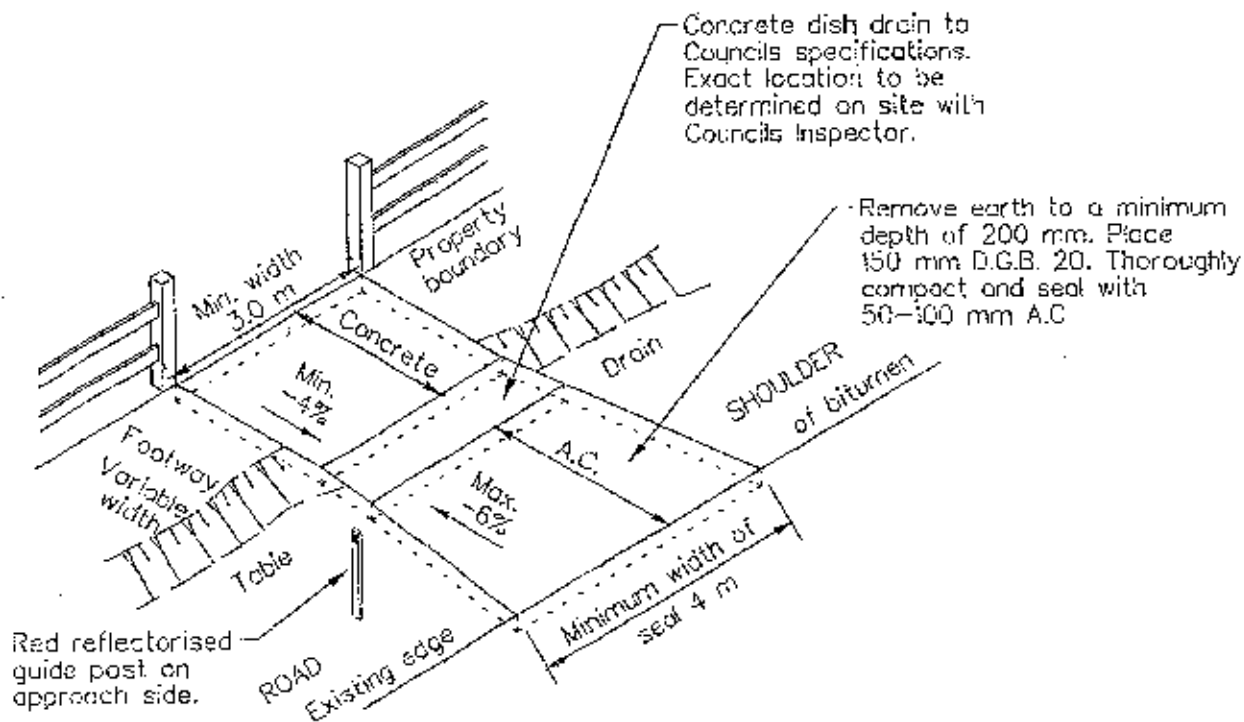
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DATE

PENRITH CITY COUNCIL

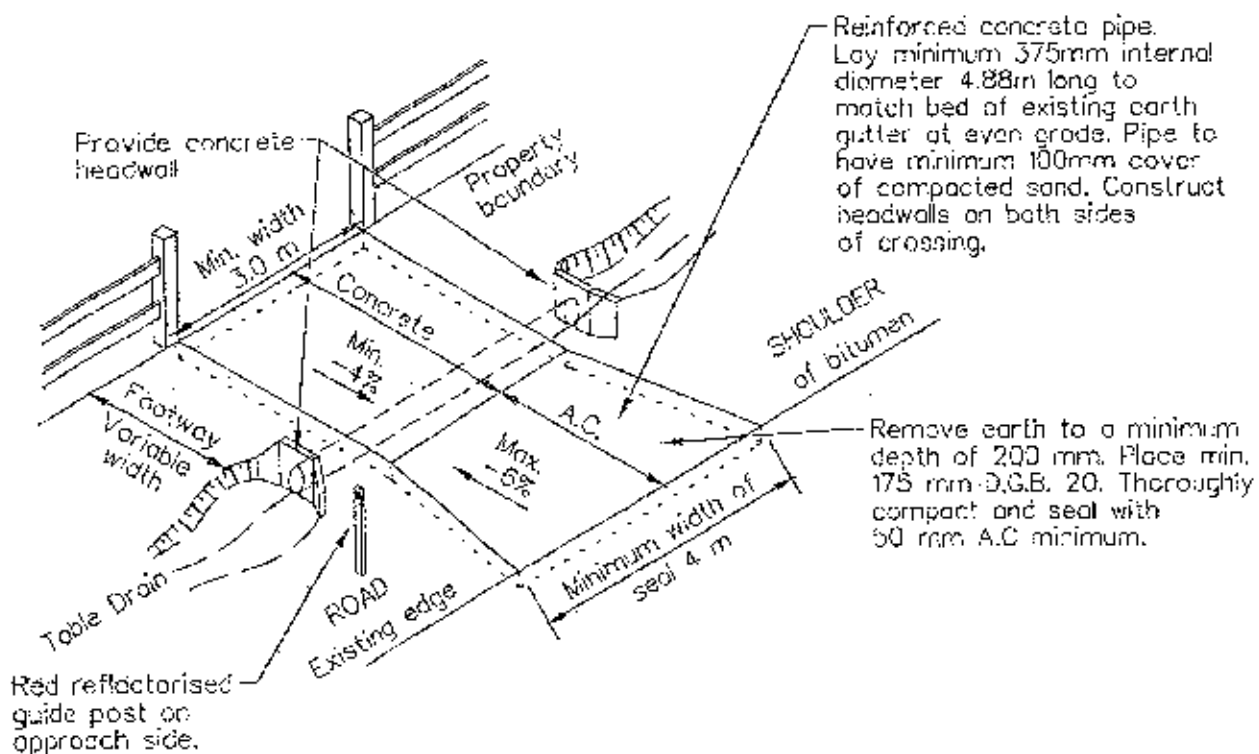
DRIVEWAY CROSSOVER
PROFILE

FILE No.

PLAN No.



RURAL VEHICULAR CROSSING - TYPE 1



RURAL PIPED VEHICULAR CROSSING - TYPE 2

DESIGNED	PENRITH CITY COUNCIL	FILE No.
DRAWN SLM		PLAN No.
APPROVED		
DATE		
RURAL VEHICULAR CROSSINGS		