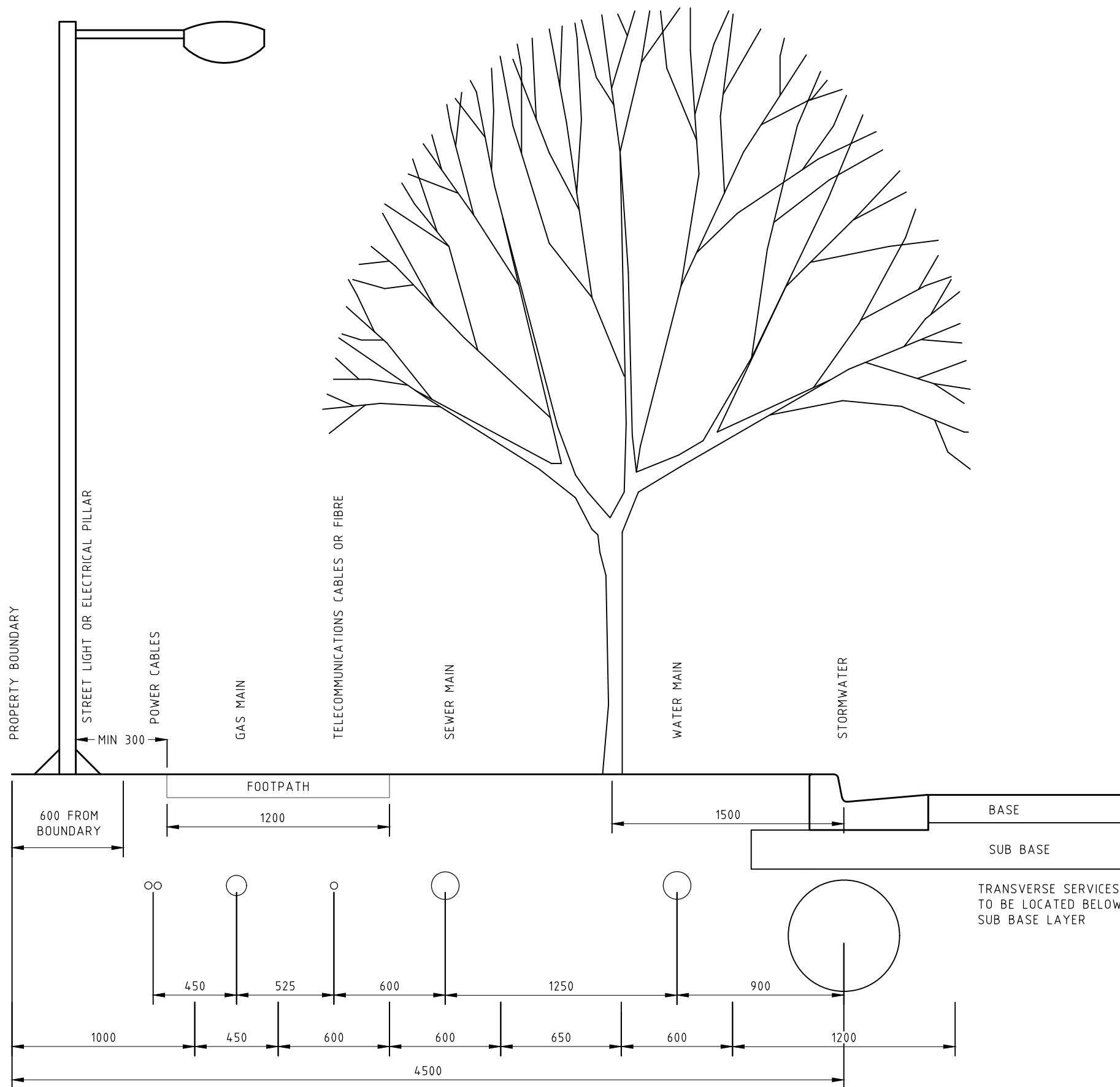


# TAMWORTH REGIONAL COUNCIL STANDARD DRAWINGS GENERAL AND ROAD INDEX



GENERAL		
DRAWING No.	DRAWING DESCRIPTION	REVISION
G001	SERVICE ALLOCATIONS - URBAN RESIDENTIAL	2
G002	SERVICE ALLOCATIONS - RURAL RESIDENTIAL	2
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G004	KERB DRAINAGE CONNECTIONS AND ADAPTORS	2
ROAD		
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RD003	KERB PROFILES	2
RD004	SAFETY BARRIER DETAILS	2
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RD006	PEDESTRIAN REFUGES AND CROSSINGS	2
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RD009	CONCRETE DISH / WING CROSSINGS AT INTERSECTIONS	2
RD010	DRIVEWAYS - URBAN RESIDENTIAL	2
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RD012	DRIVEWAYS - RURAL ACCESS ACROSS TABLE DRAINS	2
RD013	LANDSCAPING WITHIN PAVEMENT EXTENTS SHEET 1 OF 2	2
RD014	LANDSCAPING WITHIN PAVEMENT EXTENTS SHEET 2 OF 2	2



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. WHERE THE ALLOCATIONS DIFFER TO THAT SHOWN ON THIS DRAWING, APPROVAL MUST BE SOUGHT FROM RESPECTIVE UTILITY AUTHORITIES
3. DEPTH TO SERVICES TO BE IN ACCORDANCE WITH THE SERVICE PROVIDERS REQUIREMENTS
4. TELECOMMUNICATIONS, POWER AND GAS MAY BE LOCATED IN A SHARED TRENCH SUBJECT TO APPROVAL FROM RESPECTIVE UTILITY AUTHORITIES
5. WHERE SEWER AND GAS OCCUR ON THE SAME FOOTWAY ALLOCATION, ONE OF THOSE SERVICES SHALL BE RELOCATED TO THE FOOTWAY ON THE OPPOSITE SIDE OF THE ROAD
6. IF A FOOTPATH IS PROVIDED, THE PREFERENCE IS FOR THE PATH TO BE LOCATED ON THE SAME SIDE OF THE ROAD AS THE STREET LIGHTING UNLESS IT CAN BE DEMONSTRATED THAT THE RELEVANT LUMINOSITY REQUIRED BY THE AS1158 SUITE OF AUSTRALIAN STANDARDS CAN BE ACHIEVED.
7. ALL SERVICES ARE TO BE LAID AT SUFFICIENT DEPTHS TO ALLOW DRIVEWAYS TO BE CONSTRUCTED INTO ANY PROPERTY WITH ROAD FRONTAGE
8. SERVICES SHALL BE LOCATED SO AS TO NOT AFFECT TELECOMMUNICATIONS INSPECTION PITS
9. STREET LIGHTS MAY BE LOCATED ON THE SAME ALIGNMENT AS THE STREET TREE. IF THIS LOCATION FALLS WITHIN ZONE 2, AS DEFINED IN AS1158.2, THEN A FRANGIBLE POST MUST BE INSTALLED. THE CLEAR ZONE DIMENSION SHALL BE DETERMINED IN ACCORDANCE WITH TABLE 4.1 OF AUSTRROADS GUIDE TO ROAD DESIGN PART 6.
10. MANHOLES AND PITS MAY ENCROACH INTO THE ADJACENT SERVICE ALLOCATION PROVIDED THE ADJACENT SERVICE CAN PASS THE PIT OR MANHOLE
11. THE STREET TREE SPECIES SHALL BE IN ACCORDANCE WITH THE TRC URBAN STREET TREE MANAGEMENT PLAN.

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

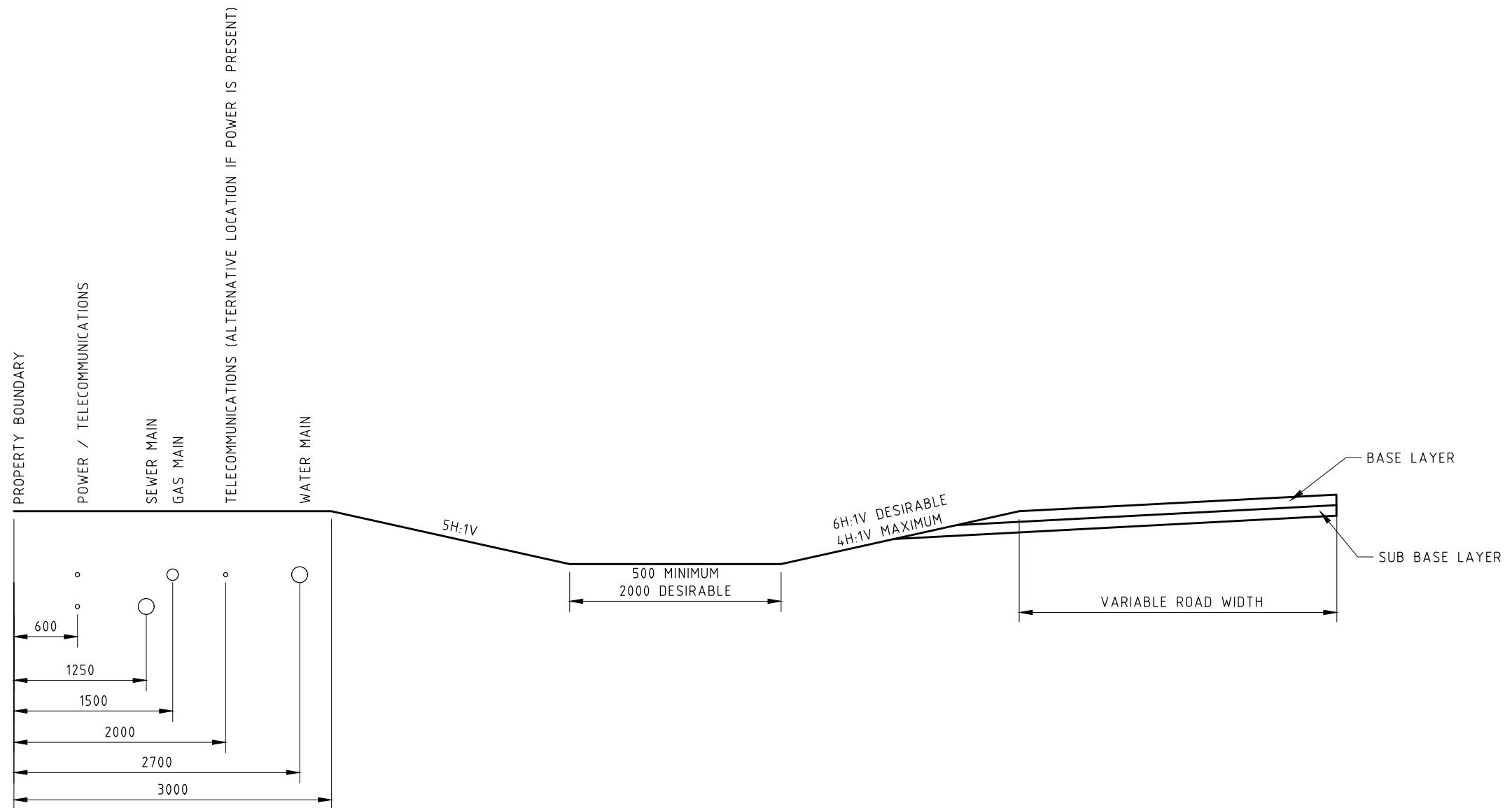
SERVICE ALLOCATIONS -  
URBAN RESIDENTIAL

REVISION: 2

ISSUE DATE: MAY 2023

DRAWING NUMBER: G001





**NOTES:**

1. ALL DIMENSIONS IN MILLIMETRES.
2. WHERE THE ALLOCATIONS DIFFER TO THAT SHOWN ON THIS DRAWING, APPROVAL MUST BE SOUGHT FROM THE RESPECTIVE UTILITY AUTHORITIES.
3. DEPTH TO SERVICES TO BE IN ACCORDANCE WITH THE SERVICE PROVIDERS REQUIREMENTS.
4. WHERE SEWER AND GAS OCCUR ON THE SAME FOOTWAY ALLOCATION, ONE OF THOSE SERVICES SHALL BE RELOCATED TO THE FOOTWAY ON THE OPPOSITE SIDE OF THE ROAD.
5. ALL SERVICES ARE TO BE LAID AT SUFFICIENT DEPTHS TO ALLOW DRIVEWAYS TO BE CONSTRUCTED INTO ANY PROPERTY WITH ROAD FRONTAGE.
6. SERVICES SHALL BE LOCATED SO AS TO NOT AFFECT TELECOMMUNICATIONS INSPECTION PITS WHERE PROPERTY ACCESSES CROSS THE TABLE DRAIN, THE TABLE DRAIN GEOMETRY MAY NEED TO BE MODIFIED TO SUIT VEHICLE VERTICAL CLEARANCES. SEE TRC STANDARD DRAWING RD012
- 7.

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

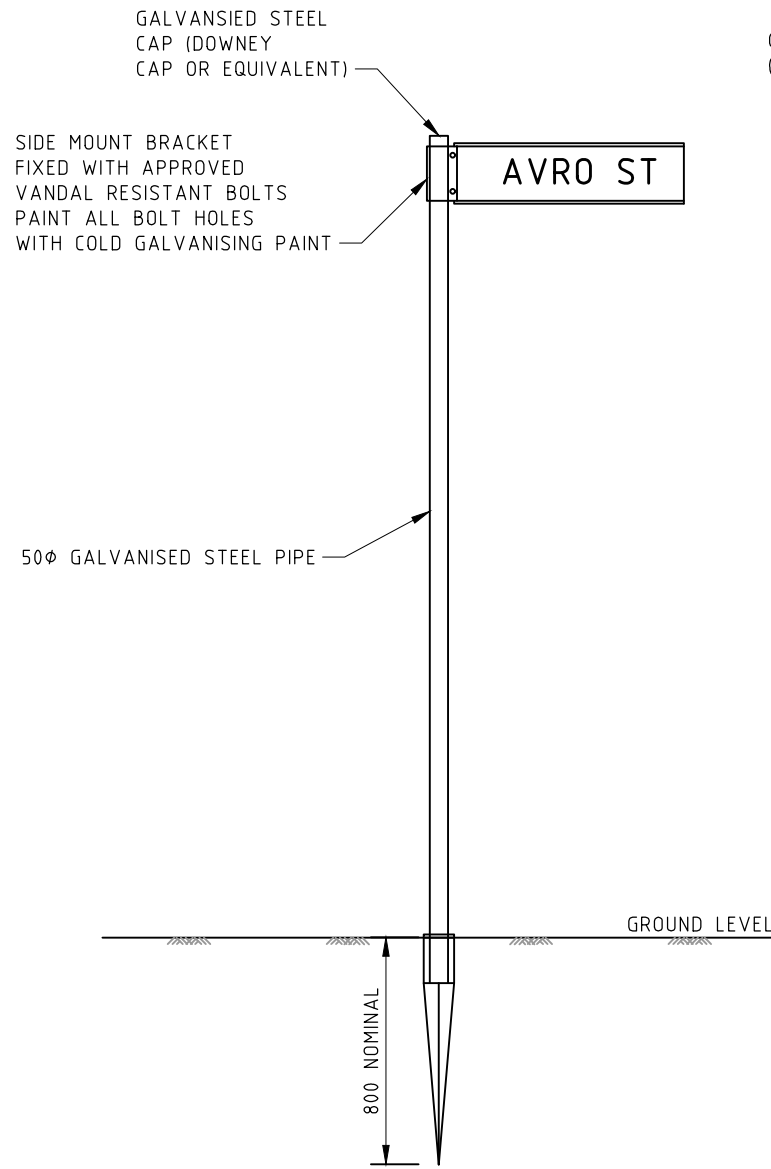
SERVICES ALLOCATIONS -  
RURAL RESIDENTIAL

REVISION: 2

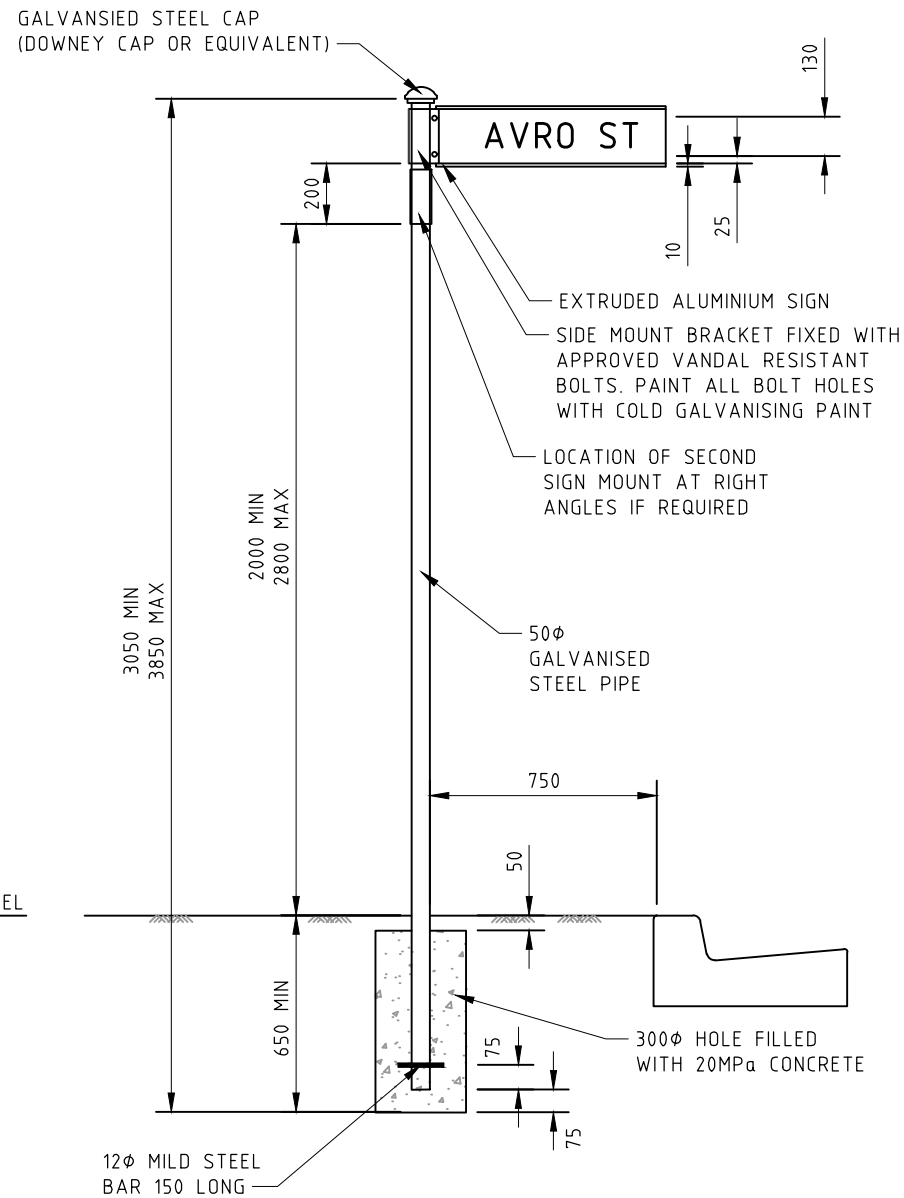
ISSUE DATE: MAY 2023

DRAWING NUMBER: G002

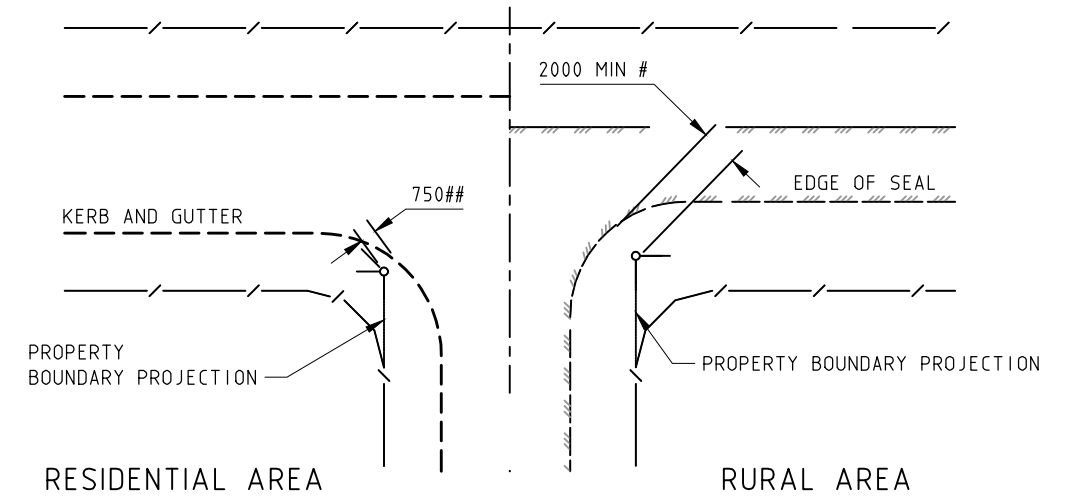




RURAL ROADS



URBAN STREETS



STREET SIGN LOCATIONS

- ## SIGN POST IS TO BE LOCATED 750mm BEHIND NOMINAL KERB LINE
- # SIGN POST IS TO BE LOCATED MIN 2000 AND MAX 4000 FROM EDGE OF SEAL

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES
2. STREET NAMES MUST BE APPROVED BY COUNCIL PRIOR TO ERECTION OF SIGNS.
3. NAME PLATES SHALL BE 200mm WIDE AND 3mm THICK EXTRUDED ALUMINIUM OR POLYPROPYLENE SECTION.
4. BRACKET STANDARD 200mm WIDE AND 3mm THICK ALUMINIUM EXTRUDED BRACKET (INCLUDING 2 x 6φ CAD BOLTS AND NUTS). CAD BOLTS AND NUTS TO AS1897.
5. LETTERS SHALL BE CLASS 1 BLACK ON CLASS 2 REFLECTOR BACKGROUND (BOTH SIDES) TO AS1743.2. LETTERS SHALL BE 100mm HIGH, SERIES B, MEDIUM SPACING. (SPACING MAY BE VARIED TO SUIT LENGTH OF STREET NAME WHEN APPROVED BY COUNCIL) ALL TEXT TO AS1744
6. SIGNS TO BE POSITIONED ON THE SIDE OF THE STREET/ROAD THAT PROVIDES BEST VISIBILITY.
7. CONCRETE TO BE IN ACCORDANCE WITH AS1379 AND AS3600.
8. MILD STEEL BARS TO BE GRADE 250 TO AS1302
9. ALL FASTENERS SHALL BE TAMPER/VANDAL RESISTANT

ABBREVIATIONS	
AVENUE	AV
BOULEVARD	BVD
CLOSE	CL
COURT	CT
CRESCENT	CR
DRIVE	DR
ESPLANADE	ESP
LANE	LN
PARADE	PDE
PARKWAY	PWY
ROAD	RD
STREET	ST
TERRACE	TCE

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

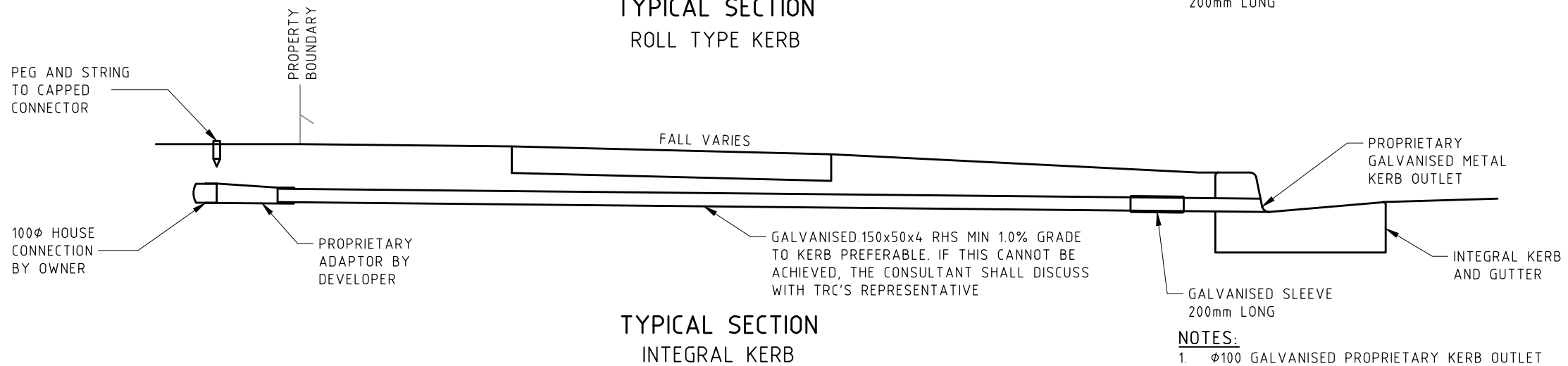
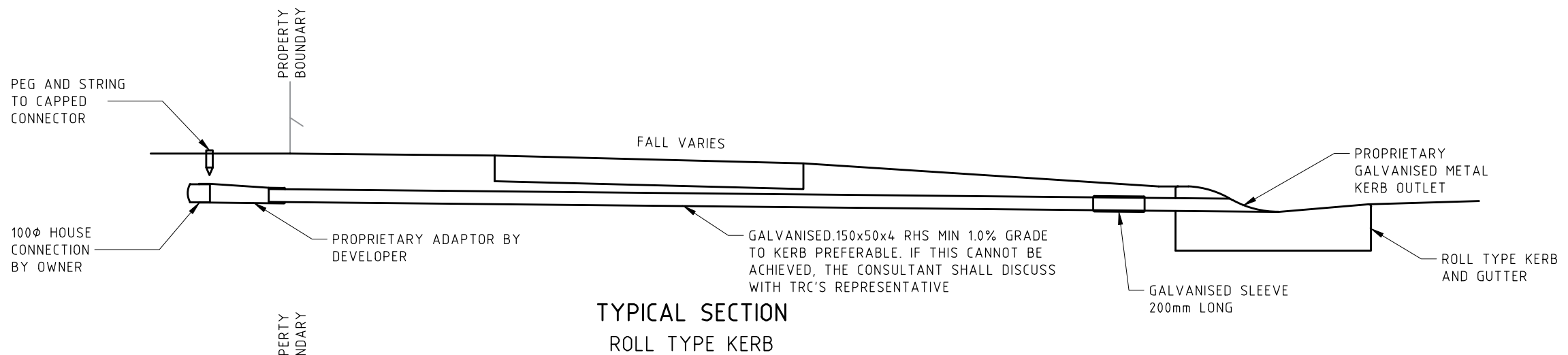
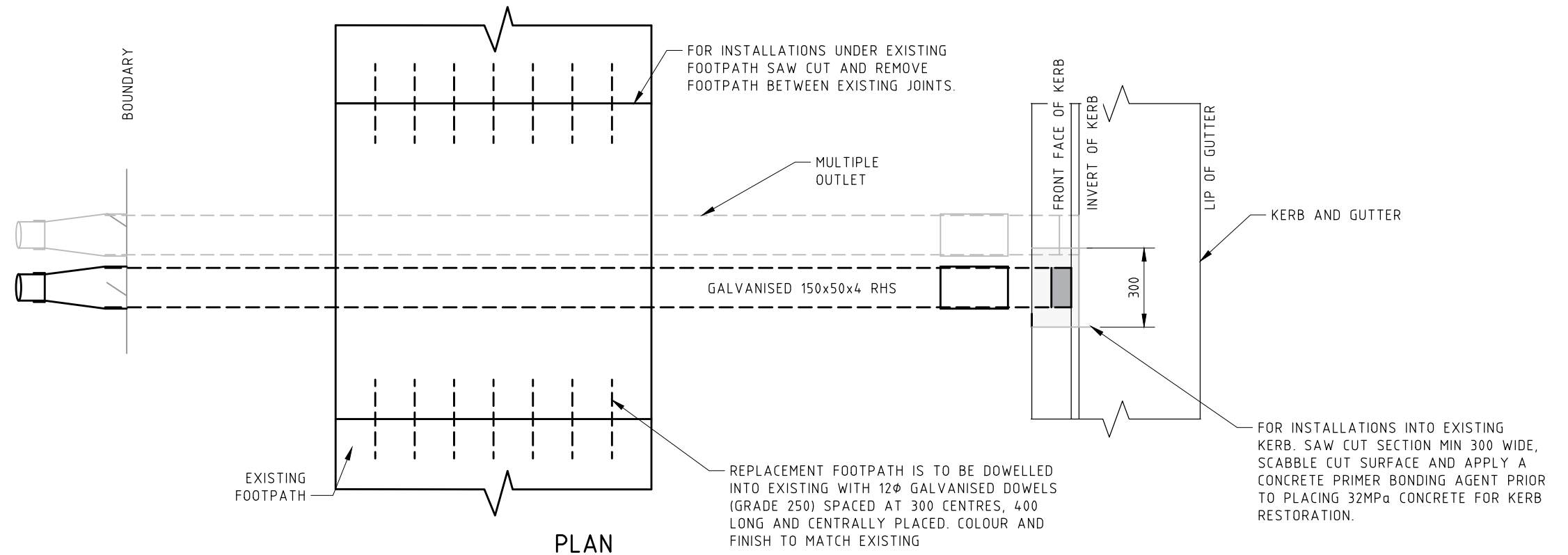
STREET NAME PLATE DETAILS

REVISION: 2

ISSUE DATE: MAY 2023

DRAWING NUMBER: G003





**NOTES:**

1.  $\phi$ 100 GALVANISED PROPRIETARY KERB OUTLET
2. UPVC NOT PERMITTED WITHIN 2m OF BACK OF KERB IN AREAS WITH ROLL KERB

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

KERB DRAINAGE  
CONNECTIONS AND ADAPTORS

REVISION: 2








ISSUE DATE: MAY 2023

DRAWING NUMBER: G004

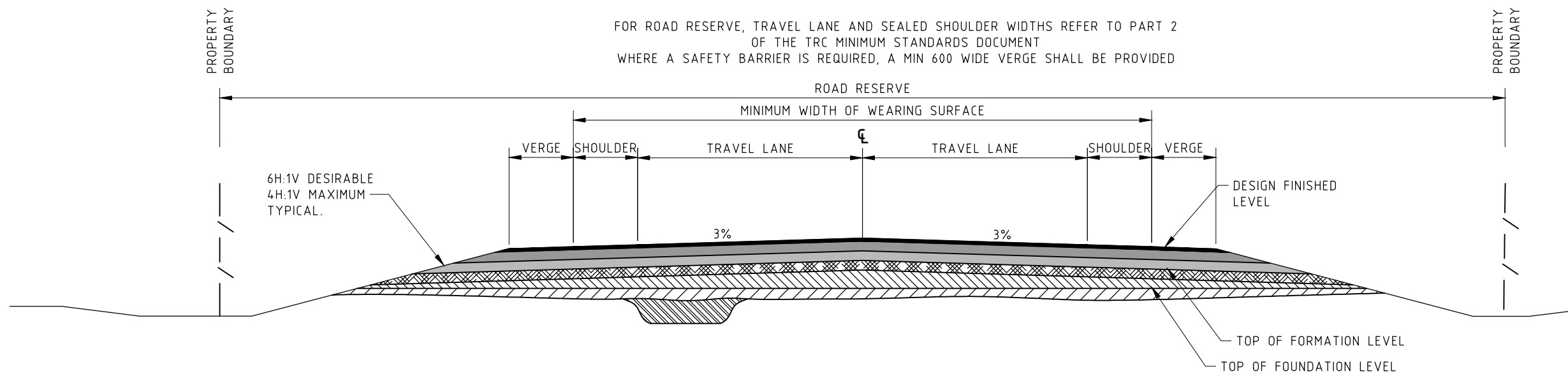


FOR ROAD RESERVE, TRAVEL LANE AND SEALED SHOULDER WIDTHS REFER TO PART 2 OF THE TRC MINIMUM STANDARDS DOCUMENT  
WHERE A SAFETY BARRIER IS REQUIRED, A MIN 600 WIDE VERGE SHALL BE PROVIDED

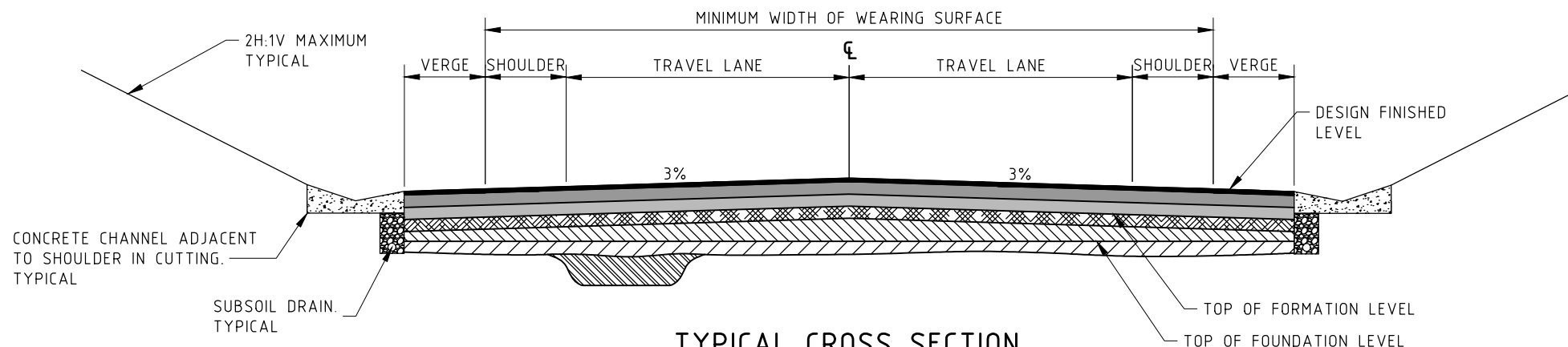
**LEGEND**

-  WEARING COURSE
-  PAVEMENT-BASE
-  PAVEMENT-SUBBASE
-  SELECT MATERIAL ZONE (IF REQUIRED)
-  GENERAL FILL (IF REQUIRED)
-  TOPSOIL (TO BE REMOVED AND REPLACED IN ACCORDANCE WITH TRC EARTHWORKS SPECIFICATION)
-  UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED IN ACCORDANCE WITH TRC EARTHWORKS SPECIFICATION

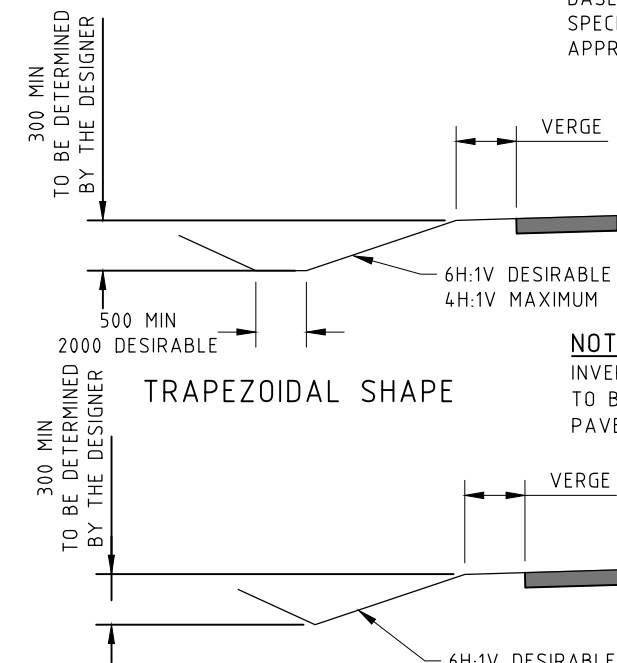
**NOTE:**  
BASE & SUB-BASE THICKNESS SHALL BE SPECIFIED IN ACCORDANCE WITH THE APPROVED PAVEMENT DESIGN REPORT



**TYPICAL CROSS SECTION  
SEALED ROAD - EMBANKMENT**

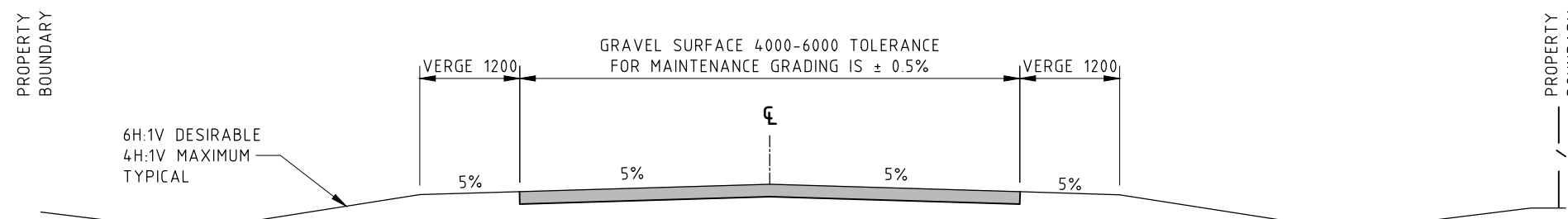


**TYPICAL CROSS SECTION  
SEALED ROAD - CUTTING**



**NOTE:**  
INVERT OF 'TRAPEZOIDAL' TABLE DRAINS TO BE BELOW THE UNDERSIDE OF PAVEMENT LAYERS

**NOTE:**  
INVERT OF 'V' TABLE DRAINS TO BE BELOW THE UNDERSIDE OF PAVEMENT LAYERS



**TYPICAL CROSS SECTION  
UNSEALED ROAD**

**TYPICAL OPEN TABLE DRAINS**

**NOTES:**

1. DO NOT SCALE
2. ALL MEASUREMENTS IN MILLIMETRES
3. THE TRAPEZOIDAL SHAPED TABLE DRAIN IS THE PREFERRED FORM TO BE ADOPTED. 'V' SHAPED TABLE DRAINS SHOULD ONLY BE ADOPTED WHERE THERE IS INSUFFICIENT SPACE IN THE ROAD RESERVE TO FIT A TRAPEZOIDAL DRAIN AND SHALL BE SUBJECT TO APPROVAL BY COUNCIL
4. THE DIMENSIONS OF THE TABLE DRAIN SHALL BE DETERMINED TO ENSURE ADEQUATE CAPACITY FOR THE DESIGN RAINFALL EVENT.
5. THE CROSSFALL ON UNSEALED ROADS SHALL NOT EXCEED 6% TO MINIMISE THE RISK OF SURFACE RUN-OFF EROSION

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

TYPICAL RURAL CROSS SECTION

REVISION: 2

ISSUE DATE: MAY 2023

DRAWING NUMBER: RD001

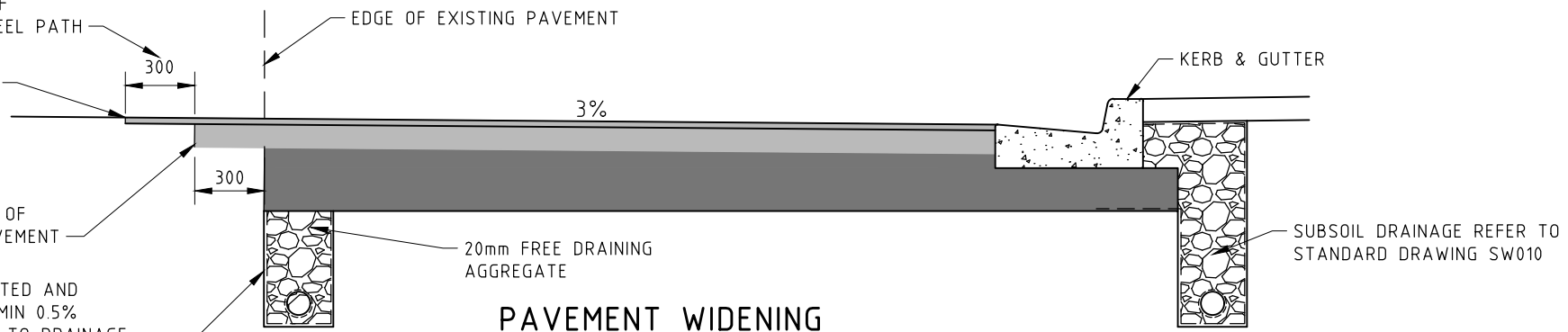


MINIMUM DISTANCE THE WEARING SURFACE SHALL EXTEND PAST THE BASE LAYER JOINT. EDGE OF WEARING SURFACE TO BE MIN 500 FROM A WHEEL PATH

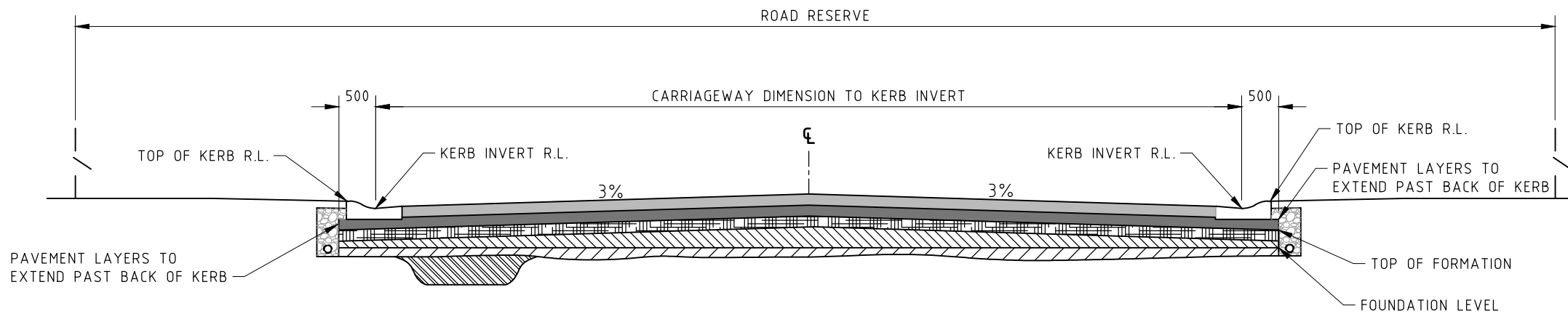
SAWCUT EDGE AND MAKE SMOOTH JUNCTION WITH EXISTING

EXTEND PAVEMENT A MINIMUM OF 300mm INTO THE EXISTING PAVEMENT

INSTALL  $\phi 100$  UPVC CORRUGATED AND SLOTTED SUBSOIL DRAIN AT MIN 0.5% LONGITUDINAL FALL. CONNECT TO DRAINAGE OUTLETS ON THE ROAD VERGE VIA UNSLOTTED UPVC PIPE CROSSING THE ROAD

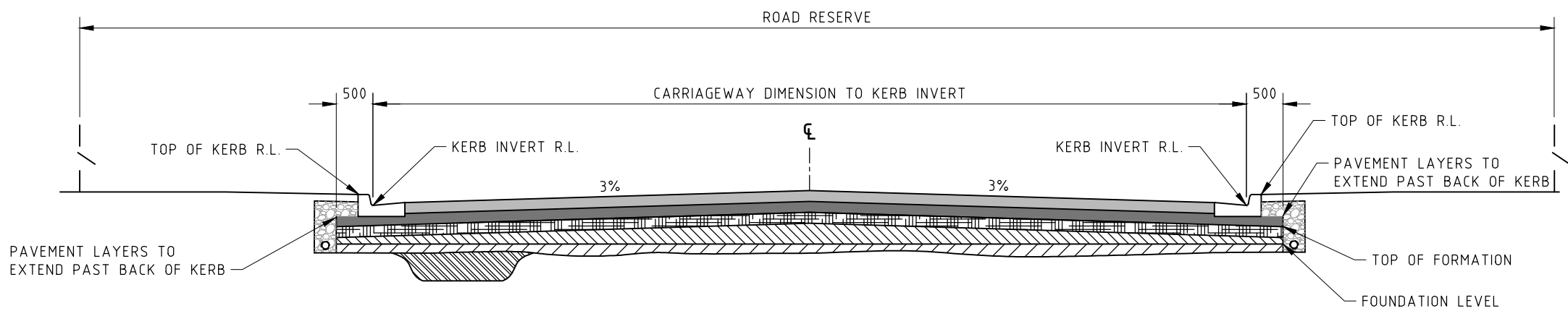


FOR ROAD RESERVE, TRAVEL LANE AND PARKING LANE WIDTHS REFER TO PART 2 OF THE TRC MINIMUM STANDARDS DOCUMENT



ROLL TYPE KERB AND GUTTER TYPICAL CROSS SECTION

FOR ROAD RESERVE, TRAVEL LANE AND PARKING LANE WIDTHS REFER TO PART 2 OF THE TRC MINIMUM STANDARDS DOCUMENT



INTEGRAL KERB AND GUTTER TYPICAL CROSS SECTION

LEGEND

- PAVEMENT-BASE
- PAVEMENT-SUBBASE
- SELECT MATERIAL ZONE (IF REQUIRED)
- GENERAL FILL (IF REQUIRED)
- TOPSOIL (TO BE REMOVED AND REPLACED IN ACCORDANCE WITH TRC EARTHWORKS SPECIFICATION)
- UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED IN ACCORDANCE WITH TRC EARTHWORKS SPECIFICATION

NOTE:  
BASE & SUB-BASE THICKNESS SHALL BE SPECIFIED IN ACCORDANCE WITH THE APPROVED PAVEMENT DESIGN REPORT

LEGEND

- PAVEMENT-BASE
- PAVEMENT-SUBBASE
- SELECT MATERIAL ZONE (IF REQUIRED)
- GENERAL FILL (IF REQUIRED)
- TOPSOIL (TO BE REMOVED AND REPLACED IN ACCORDANCE WITH TRC EARTHWORKS SPECIFICATION)
- UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED IN ACCORDANCE WITH TRC EARTHWORKS SPECIFICATION

NOTE:  
BASE & SUB-BASE DEPTH OF MATERIAL TO BE SPECIFIED IN ACCORDANCE WITH THE APPROVED PAVEMENT DESIGN REPORT

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

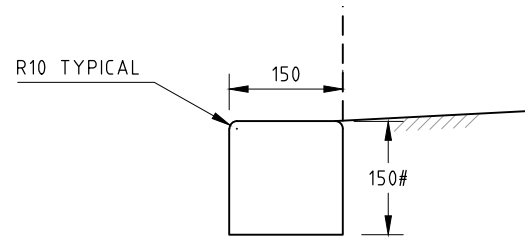
TYPICAL URBAN CROSS SECTION

REVISION: 2

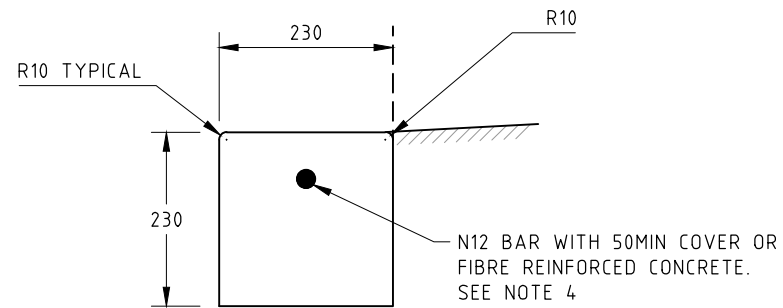
ISSUE DATE: MAY 2023

DRAWING NUMBER: RD002

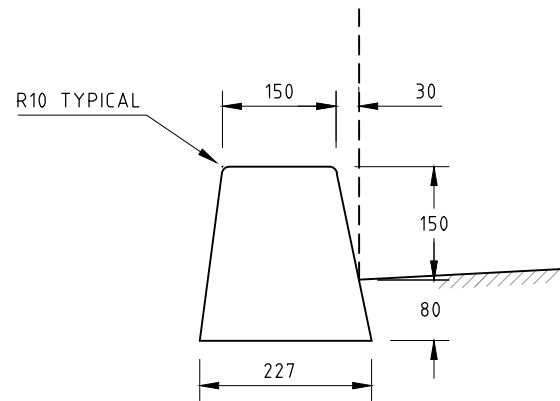




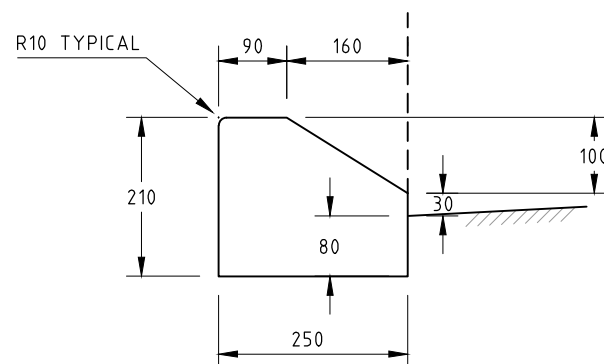
EDGE RESTRAINT (NO VEHICLE LOADING)



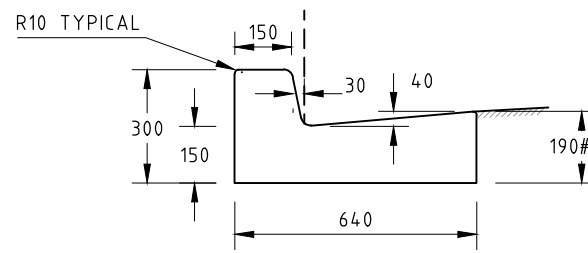
EDGE RESTRAINT (WITH VEHICLE LOADING)



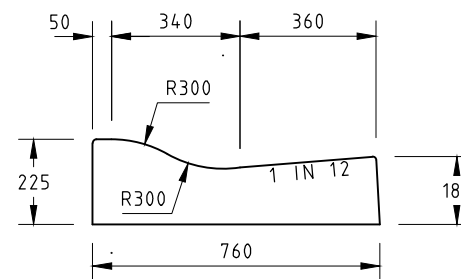
BARRIER KERB



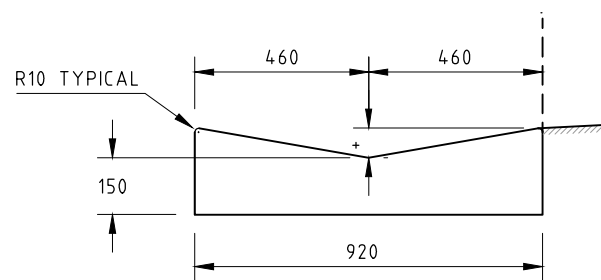
SEMI-MOUNTABLE KERB



INTEGRAL KERB AND GUTTER

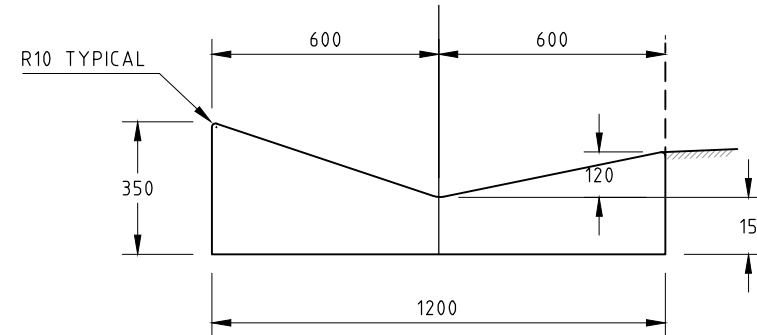


ROLL TYPE KERB AND GUTTER

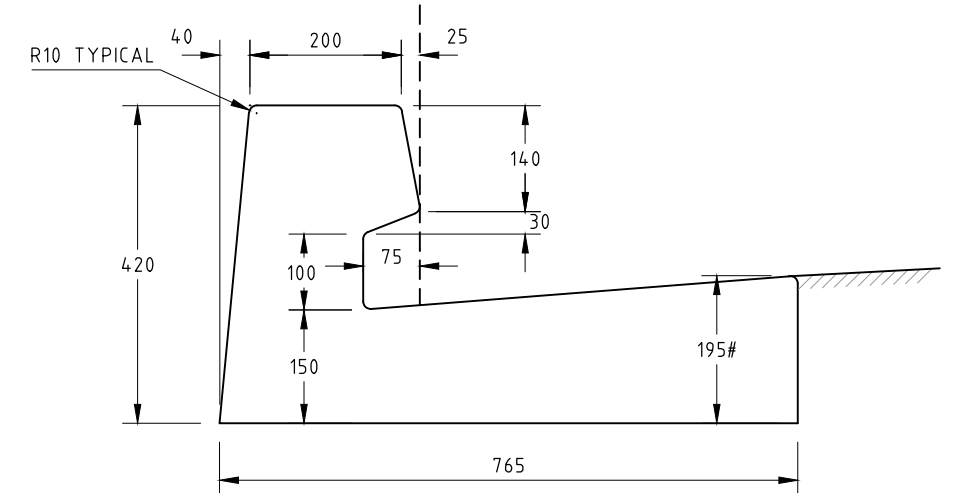


DISH CROSSING

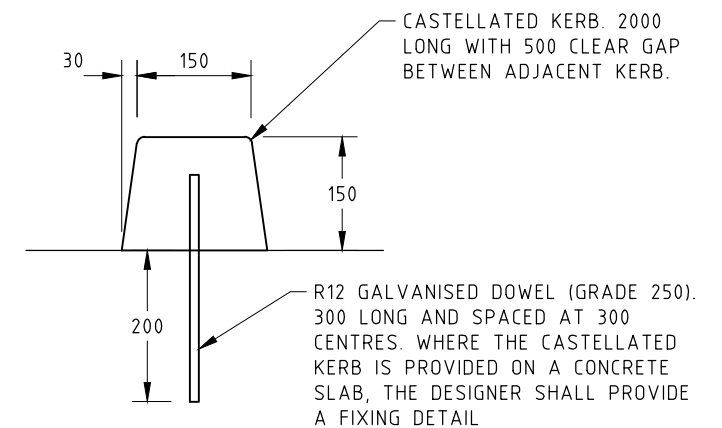
- URBAN (+40mm)
- RURAL (+80mm)



CHANNEL ADJACENT TO SHOULDERS IN CUTTINGS



ELSHOLZ KERB



CASTELLATED KERB

--- DENOTES EDGE OF CARRIAGEWAY AND SETOUT LINE

**NOTES:**

1. ALL DIMENSIONS IN MILLIMETRES
  2. DO NOT SCALE
  3. THE MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 25MPa IN ACCORDANCE WITH AS1379 AND AS3600
  4. FIBRE REINFORCED CONCRETE EDGE RESTRAINT SHALL BE REINFORCED WITH A MIX OF HIGH PERFORMANCE POLYMER (HPP) FIBRES AND DISCRETE GRADED MONOFILAMENT FIBRES. THE HPP FIBRES SHALL BE PROVIDED AS A COARSE FILAMENT OF NO LESS THAN 600 DENIER. THESE FIBRES SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE AND ADDED TO THE CONCRETE BY THE PREMIX CONCRETE SUPPLY COMPANY AT THE RATE OF 4.6kg PER CUBIC METRE. THE 4.6kg SHALL CONSIST OF 3.8kg OF THE HPP AND 0.8kg OF DISCRETE GRADED MONOFILAMENT FIBRES.
  5. THE ELSHOLZ KERB IS A REDIRECTIONAL KERB SUITABLE FOR SPEED ZONES 70km/h OR LESS
  6. THE ELSHOLZ KERB SHALL BE TERMINATED BY TRANSITIONING TO AN INTEGRAL KERB AND GUTTER OR A FLARED TERMINATION AT 15:1
  7. FOR THE BARRIER KERB, IF A DOWELLED FIXING TO THE PAVEMENT IS PREFERRED TO A KEYED FOUNDATION, GALVANISED R12 DOWELS (300 LONG) AT 300 CENTRES ARE TO BE ADOPTED (200 EMBEDMENT)
- # DIMENSION MAY BE INCREASED TO SUIT THE DEPTH OF PAVEMENT BASE LAYER

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

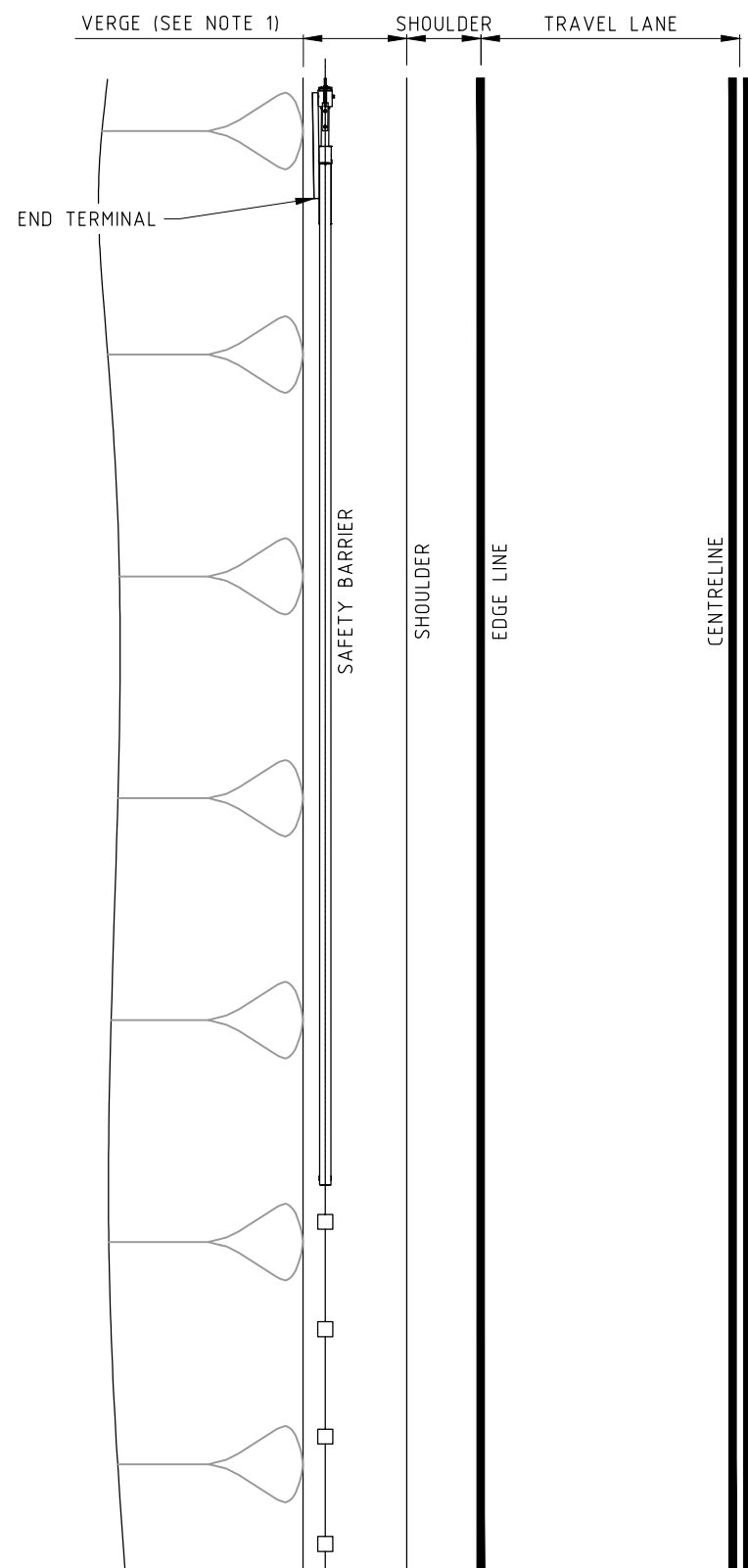
KERB PROFILES

REVISION: 2

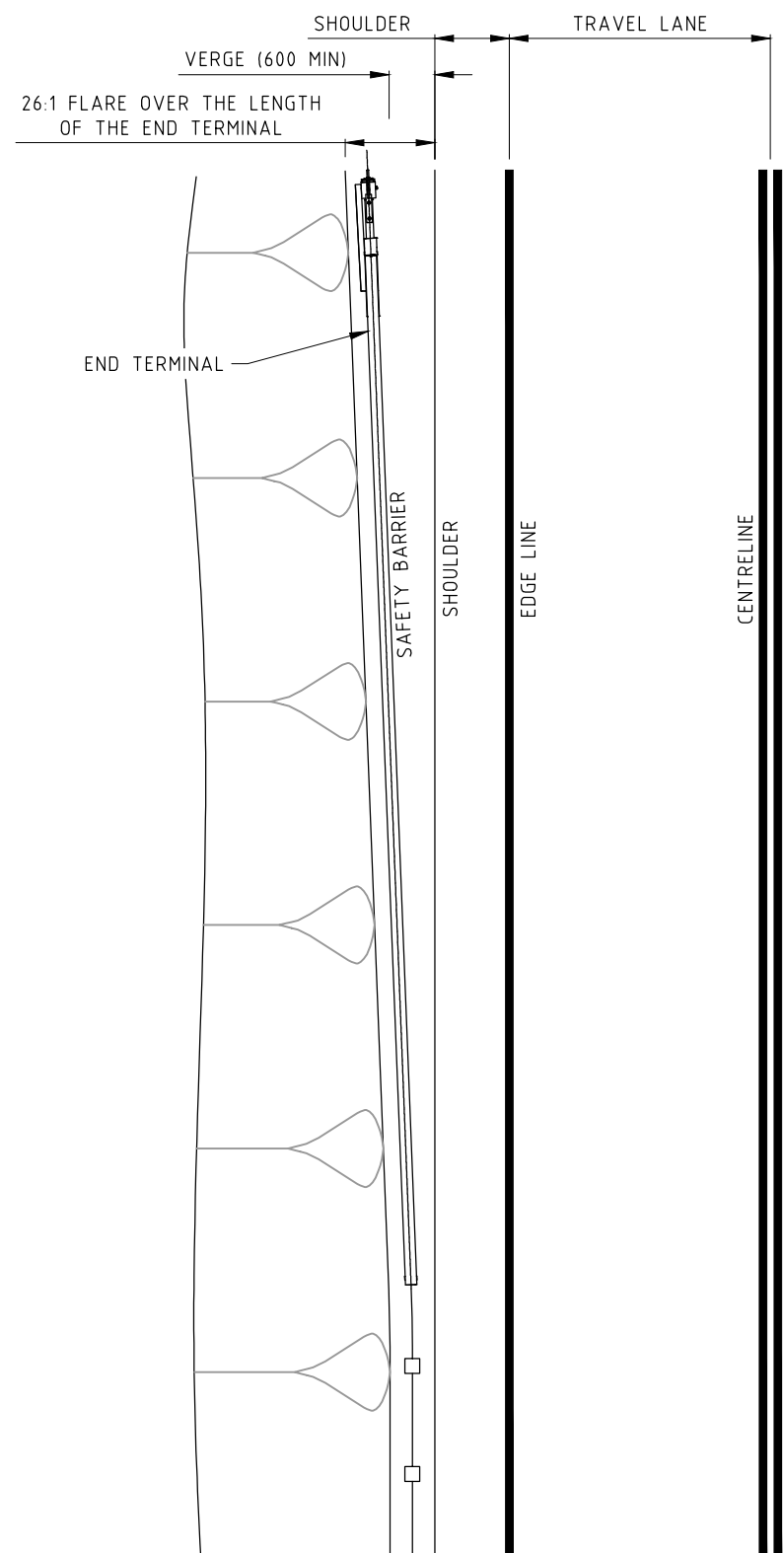
ISSUE DATE: MAY 2023

DRAWING NUMBER: RD003

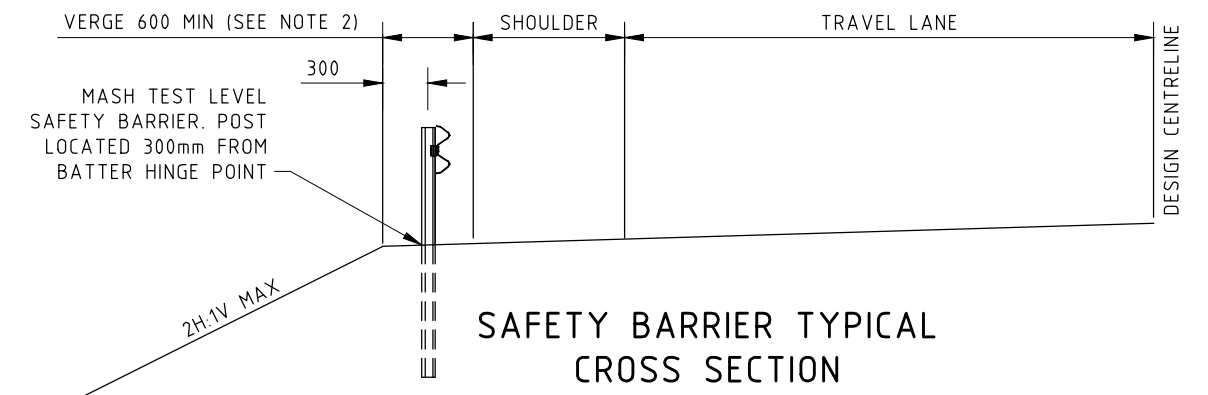




SAFETY BARRIER LOCATED OUTSIDE THE SHY LINE



SAFETY BARRIER LOCATED WITHIN THE SHY LINE



SAFETY BARRIER TYPICAL CROSS SECTION

**NOTES:**

1. SEE AUSTRROADS GUIDE TO ROAD DESIGN PART 6 FOR SHYLINE OFFSETS FOR VARIOUS DESIGN SPEEDS.
2. THE SAFETY BARRIER SHALL BE LOCATED WITHIN A VERGE TO AVOID ENCROACHMENT INTO THE SHOULDER. THE WIDTH OF THE VERGE SHALL ACHIEVE THE SHY LINE DISTANCE FROM THE FACE OF THE SAFETY BARRIER TO THE EDGE LINE OR BE A MINIMUM WIDTH OF 600mm

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

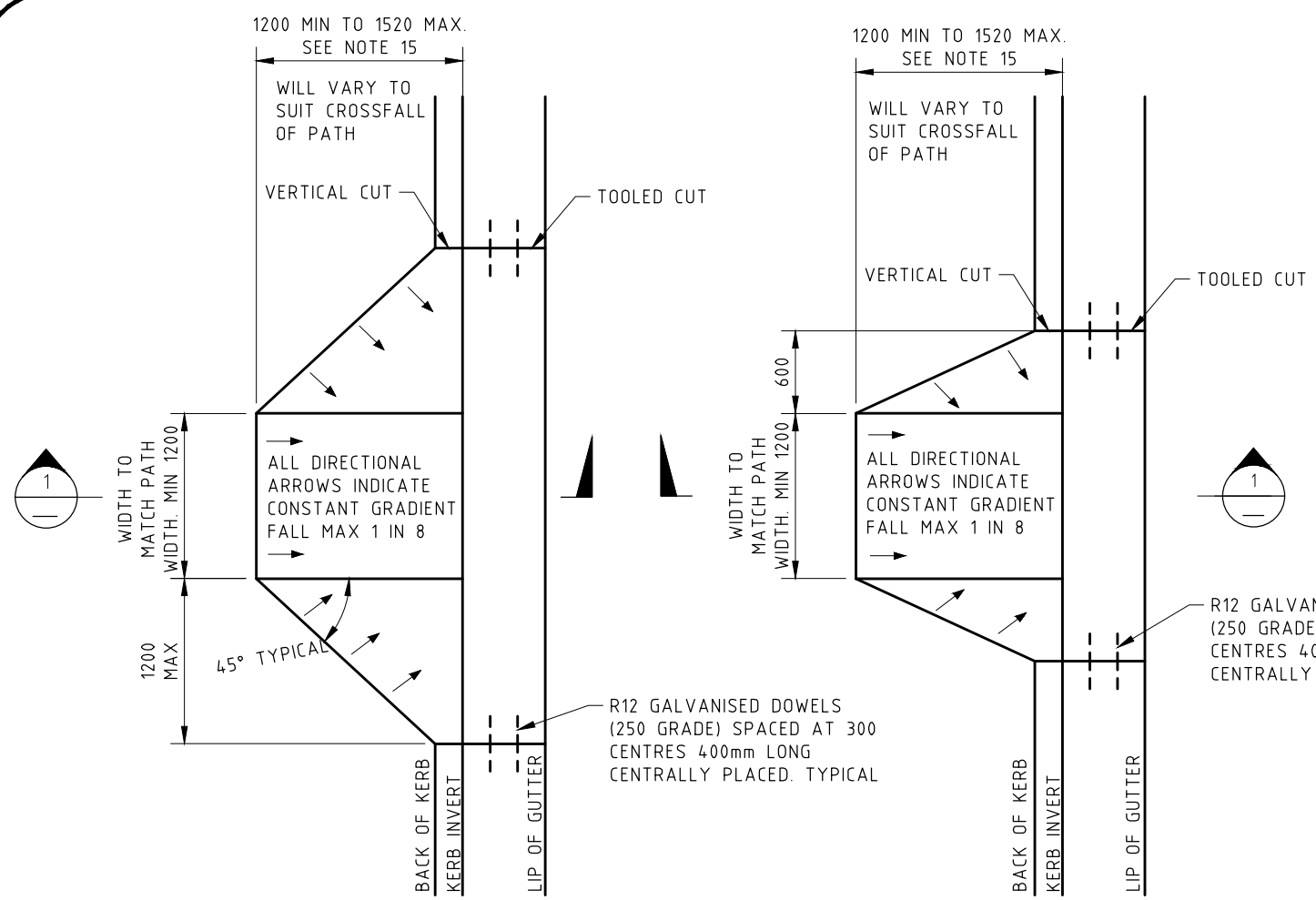
SAFETY BARRIER DETAILS

REVISION: 2

ISSUE DATE: MAY 2023

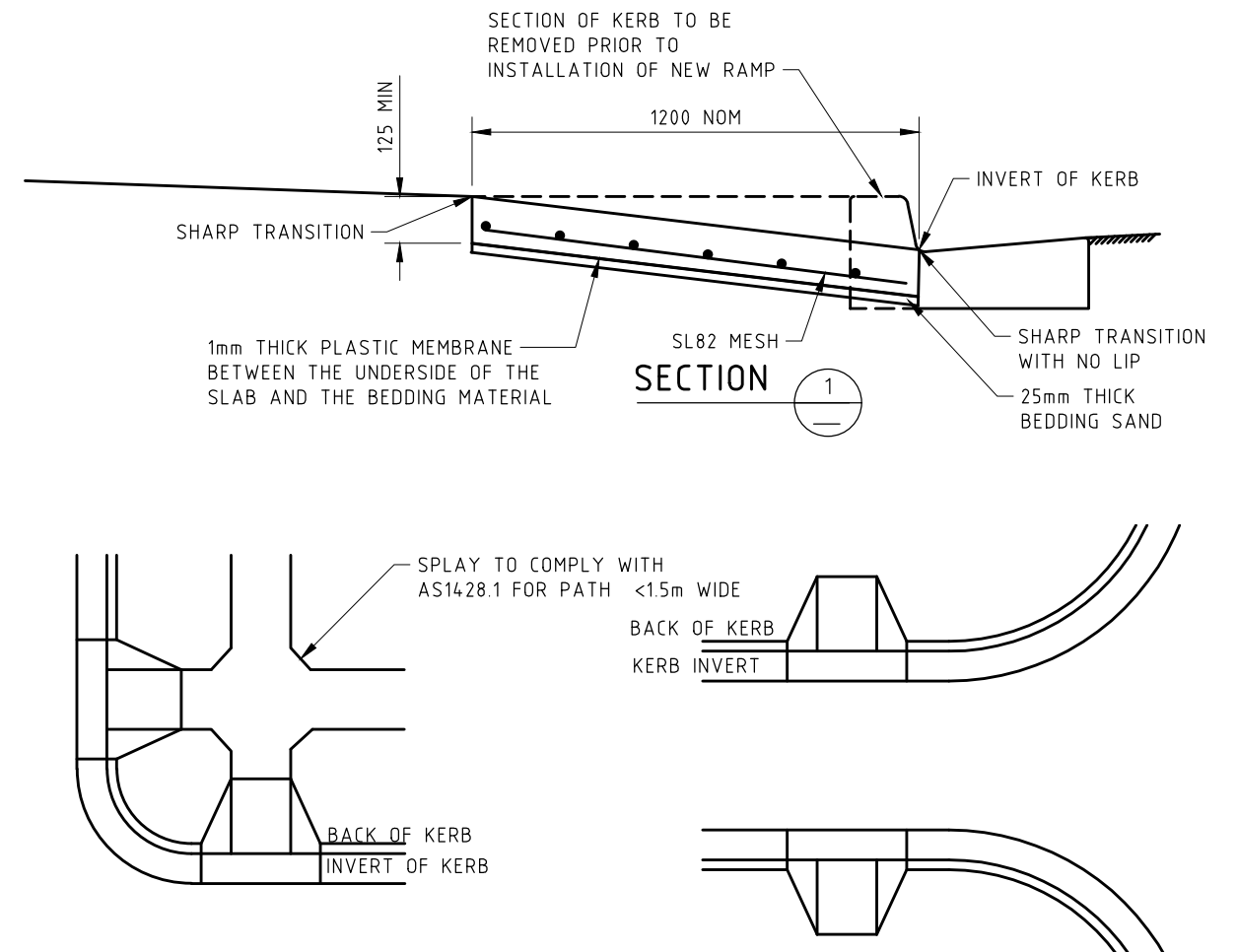
DRAWING NUMBER: RD004





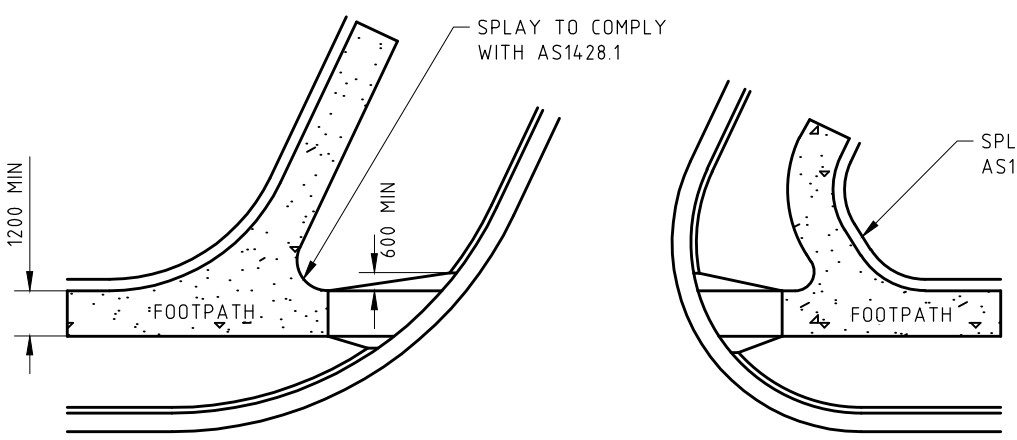
STANDARD KERB RAMP WITH 1200 WIDE WING

STANDARD KERB RAMP WITH 600 WIDE WING



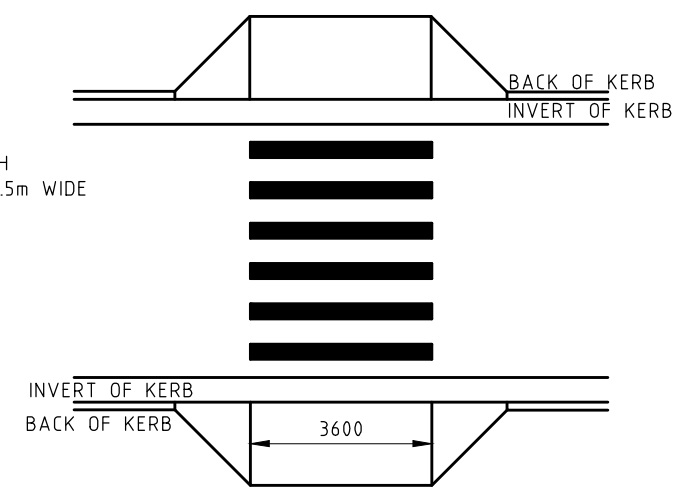
ADJACENT KERB RAMPS

ALIGNED KERB RAMPS



OBTUSE AND ACUTE KERB RAMP LAYOUTS

NOTE:  
THE ANGLE OF THE KERB RAMP AND THE ROAD SHALL BE BETWEEN 70 AND 90 DEGREES



PEDESTRIAN CROSSING

- NOTES:**
1. ALL DIMENSIONS IN MILLIMETRES
  2. DO NOT SCALE
  3. FOR DETAIL OF STANDARD KERB PROFILES, SEE STANDARD DRAWING RD003
  4. THE COMPACTION OF THE FOUNDATION UNDER THE KERB RAMPS SHALL BE THE SAME AS THE ADJACENT FOOTPATH FOUNDATION.
  5. THE MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 25MPa IN ACCORDANCE WITH AS1379 AND AS3600
  6. NOMINAL COVER TO REINFORCEMENT SHALL BE 40mm
  7. THE CHANGE IN GRADE MUST BE DEFINED BY A SHARP TRANSITION BETWEEN ALL EDGES
  8. KERB RAMPS WIDER THAN 3600mm REQUIRE APPROVAL FROM TAMWORTH REGIONAL COUNCIL
  9. ALL KERB RAMPS ARE TO BE ALIGNED WITH THE DESIRED DIRECTION OF PEDESTRIAN FLOW AND BE A MINIMUM WIDTH OF 1200mm
  10. AT PEDESTRIAN CROSSINGS, KERB RAMPS MUST LINE UP WITH CROSSING AND CORRESPONDING KERB RAMPS ON THE OTHER SIDE OF THE ROAD AND SHOULD TYPICALLY BE LOCATED AT KERB TANGENT POINTS
  11. THE SLOPE FACE OF A PEDESTRIAN RAMP SHOULD COMMENCE AT THE OUTSIDE OF THE PAINT LINES OF THE PEDESTRIAN CROSSING (3600mm) IF THIS IS NOT POSSIBLE THE SLOPE FACE SHOULD BE A MINIMUM WIDTH OF 1200mm AND THE WIDTH OF THE KERB RAMP SHALL ALLOW IT TO BE SAFELY AND PRACTICALLY USED.
  12. EXPANSION JOINTS TO BE PROVIDED WHERE KERB RAMP ABUTS THE FOOTPATH
  13. SEPARATE KERB RAMPS MUST BE USED ADJACENT TO CROSSINGS AT INTERSECTIONS
  14. TACTILE INDICATORS SHALL BE PROVIDED AT KERB RAMPS STEEPER THEN 8H:1V AND WHERE REQUIRED BY AS1428.4.1
  15. THE LENGTH OF THE KERB RAMP SHALL BE BASED ON THE HEIGHT FROM THE KERB INVERT TO NATURAL SURFACE ADOPTING A MAXIMUM GRADE OF 1 IN 8 WITH A MINIMUM LENGTH OF 1200mm AND A MAXIMUM LENGTH OF 1520mm

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

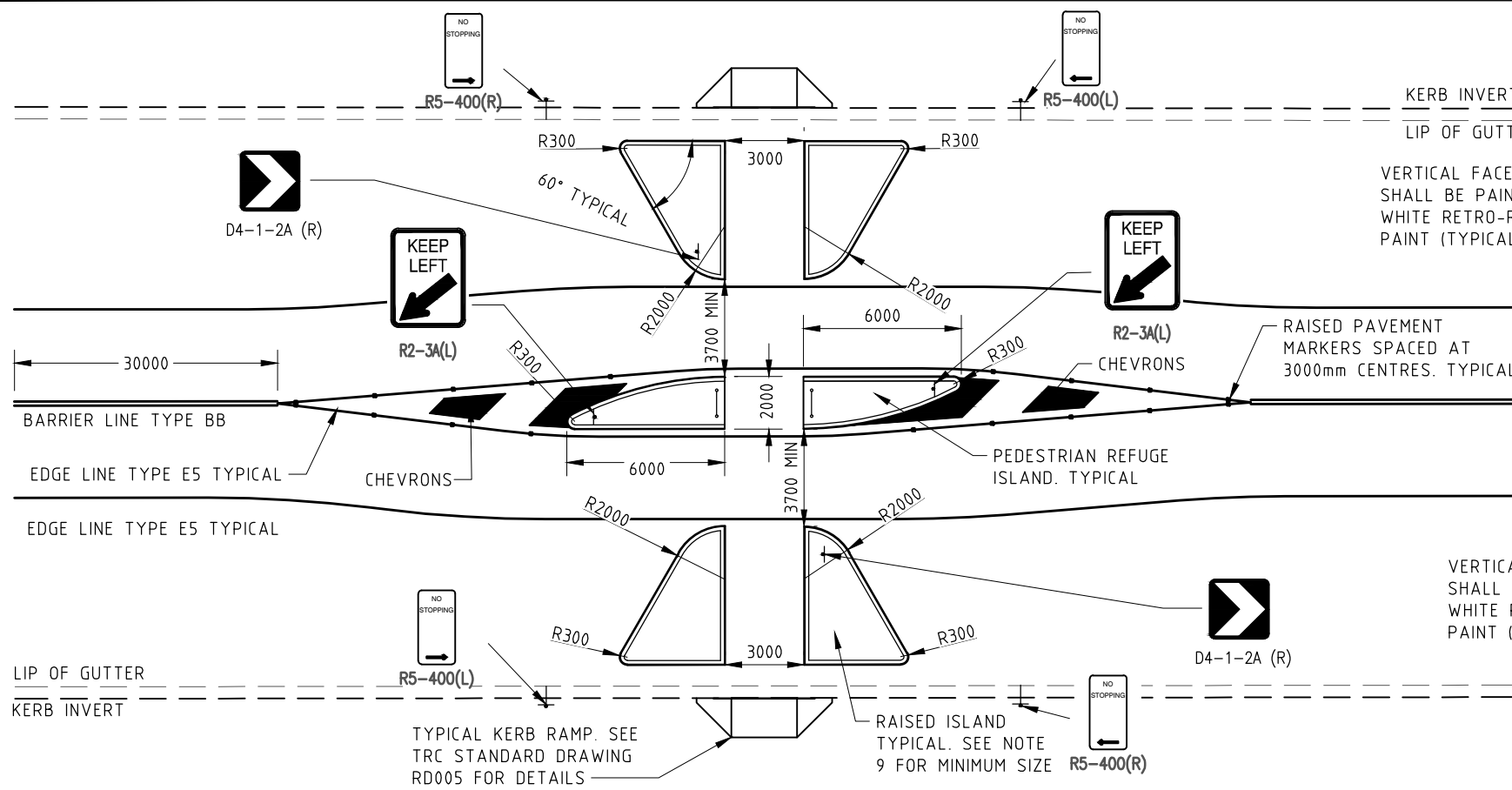
KERB RAMPS

REVISION: 2

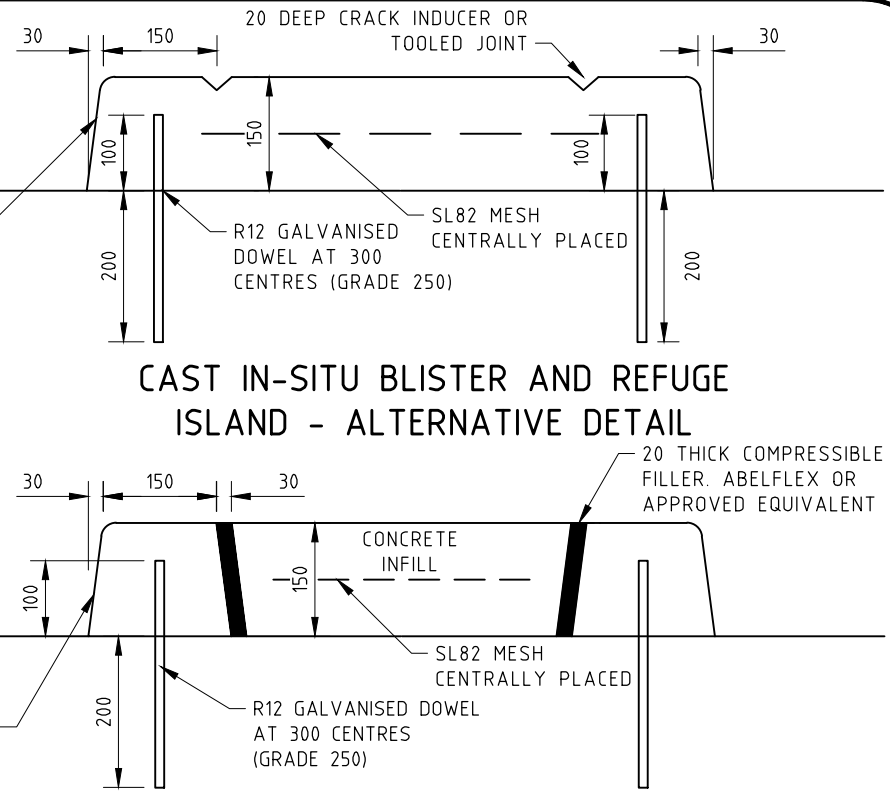
ISSUE DATE: MAY 2023

DRAWING NUMBER: RD005

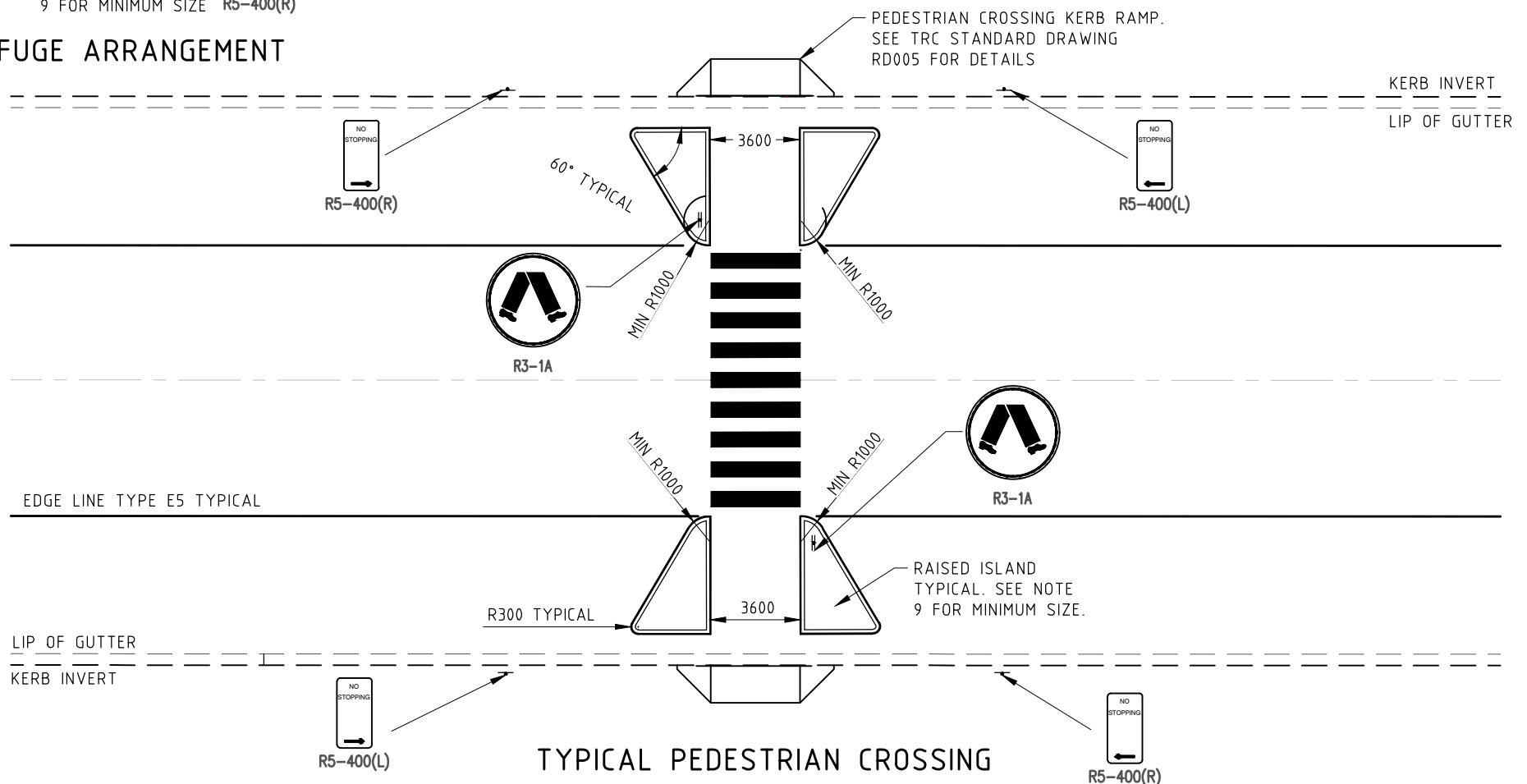




TYPICAL PEDESTRIAN REFUGE ARRANGEMENT



CAST IN-SITU BLISTER AND REFUGE ISLAND



TYPICAL PEDESTRIAN CROSSING

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. THE 28 DAY CONCRETE STRENGTH FOR CONCRETE BLISTERS, REFUGES ISLANDS AND INFILL SLABS SHALL BE MIN 25 MPa
3. PEDESTRIAN REFUGES SHALL COMPLY WITH RMS TDT 2011/01A
4. THE DISTANCE OF NO STOPPING SIGNS FROM KERB RAMPS SHALL BE DETERMINED IN ACCORDANCE WITH TfNSW TECHNICAL DIRECTIONS
5. STREET LIGHTING MUST BE PROVIDED AT PEDESTRIAN CROSSINGS IN ACCORDANCE WITH AS 1158
6. WHERE UNDERGROUND STORMWATER INFRASTRUCTURE IS PROVIDED, RAISED ISLANDS MAY CONTINUE TO THE KERB LINE PROVIDED AN INLET PIT IS LOCATED ON THE UPSTREAM SIDE OF THE RAISED ISLAND
7. THE TOP SURFACE OF CONCRETE ON RAISED ISLANDS SHALL HAVE AN APPROPRIATE APPEARANCE TREATMENT, AND SHALL BE DETERMINED IN CONSULTATION WITH TAMWORTH REGIONAL COUNCIL. STENCILING SHALL NOT EXTEND PAST THE REAR TOP OF KERB
8. THE INSTALLATION OF REGULATORY TRAFFIC SIGNS IS THE RESPONSIBILITY OF TAMWORTH REGIONAL COUNCIL AND REQUIRES APPROVAL FROM THE LOCAL TRAFFIC COMMITTEE
9. THE PLAN AREA OF THE RAISED ISLAND WITHIN URBAN AREAS SHALL BE A MINIMUM OF 8m<sup>2</sup> UNLESS AGREED WITH TAMWORTH REGIONAL COUNCIL
10. SEMI MOUNTABLE KERB MAY BE USED IN LIEU OF A BARRIER KERB WHEN THE REFUGE ISLAND IS IN CLOSE PROXIMITY TO AN INTERSECTION OR IN SPEED ZONES HIGHER THAN 50km/h SUBJECT TO AGREEMENT WITH TAMWORTH REGIONAL COUNCIL

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

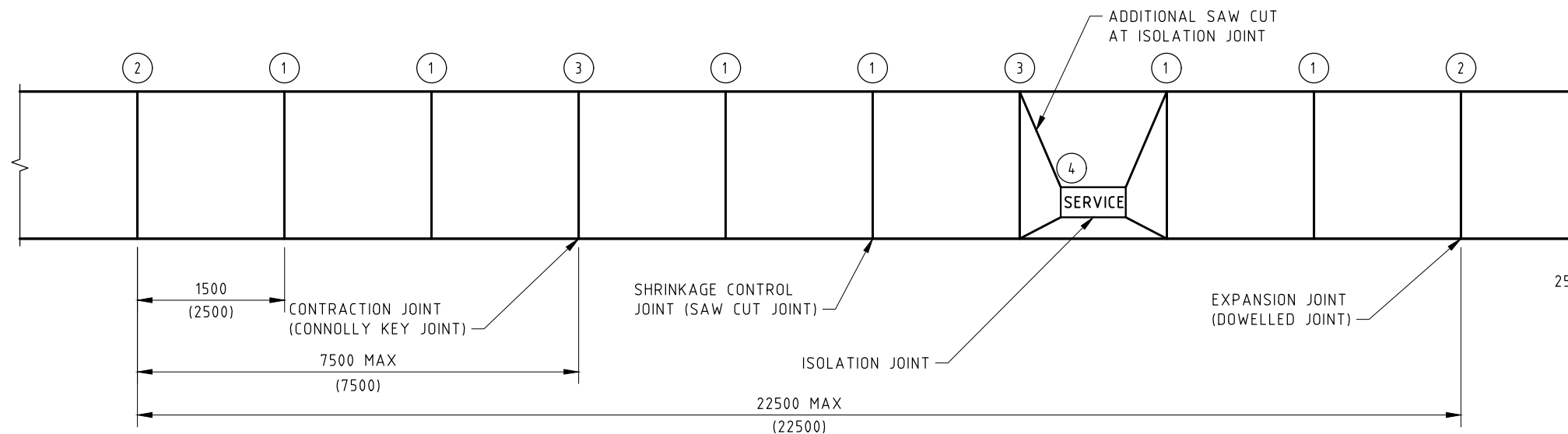
PEDESTRIAN REFUGES AND CROSSINGS

REVISION: 2

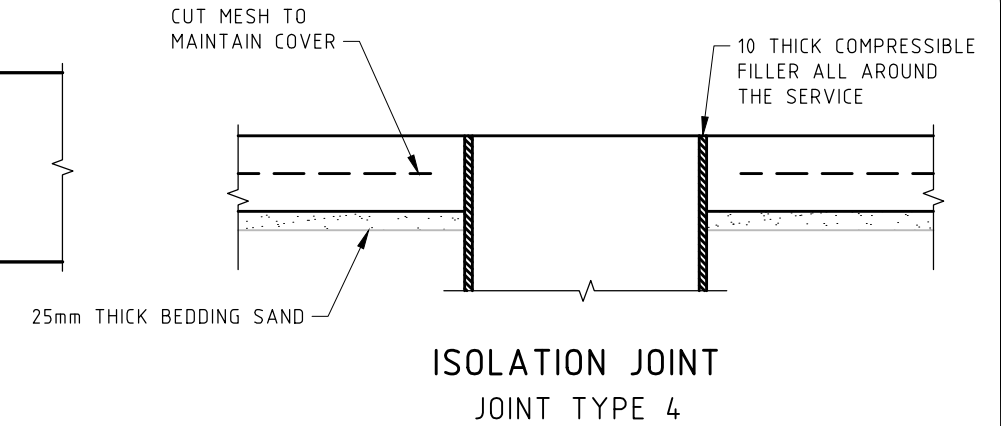
ISSUE DATE: MAY 2023

DRAWING NUMBER: RD006

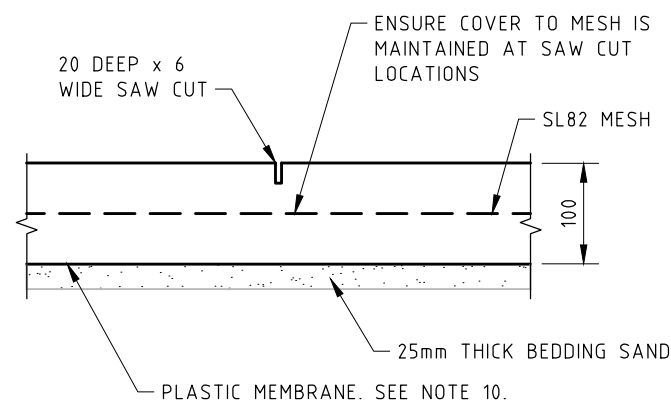




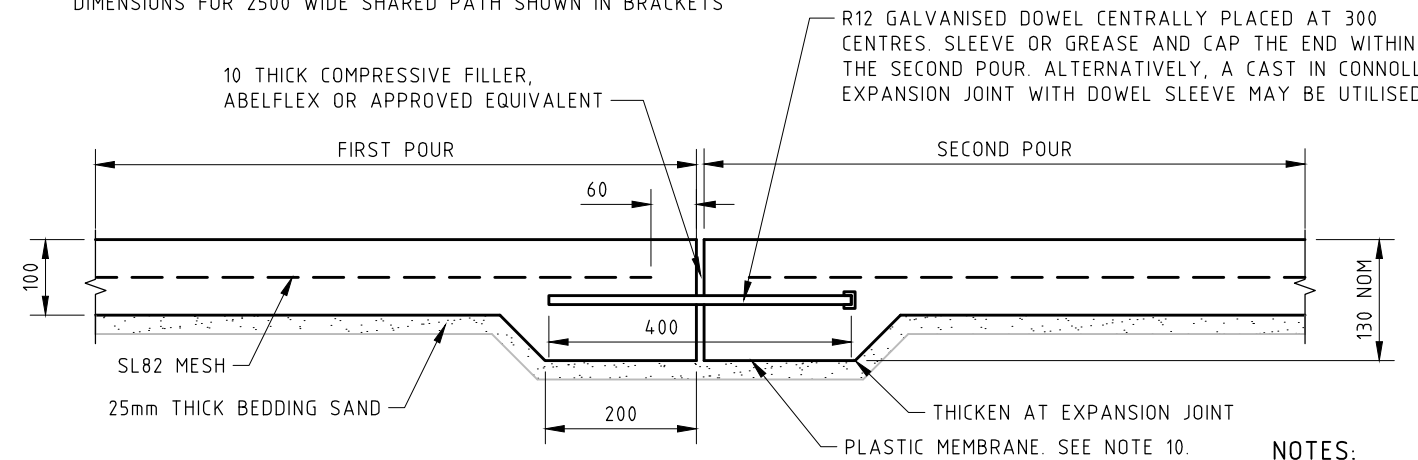
**FOOTPATH AND SHARED PATH JOINT LAYOUT**  
DIMENSIONS FOR 2500 WIDE SHARED PATH SHOWN IN BRACKETS



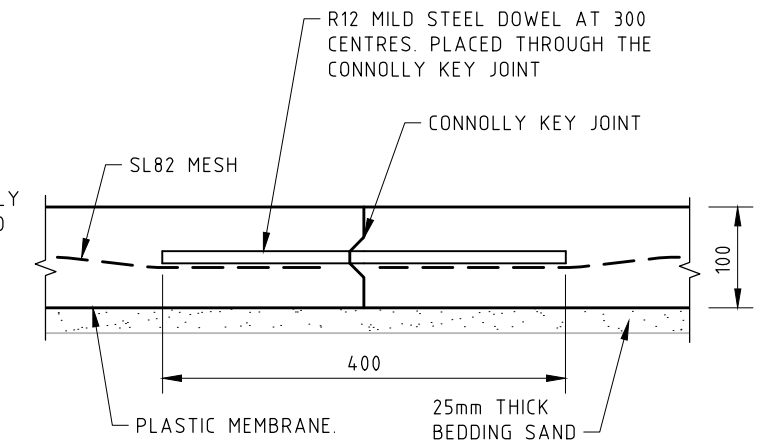
**ISOLATION JOINT  
JOINT TYPE 4**



**SHRINKAGE CONTROL JOINT (SAW CUT JOINT)  
JOINT TYPE 1**



**EXPANSION JOINT (DOWELLED JOINT)  
JOINT TYPE 2**



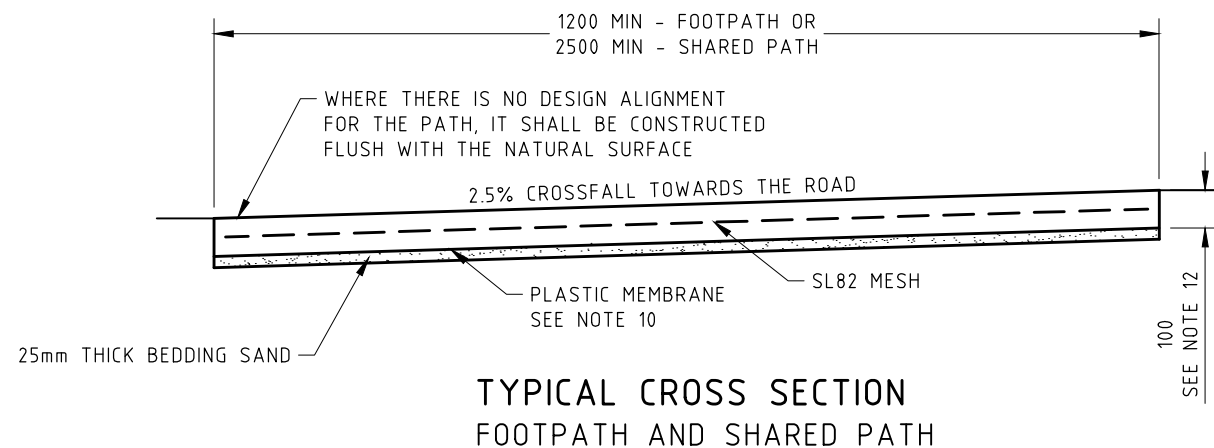
**CONTRACTION JOINT (CONNOLLY KEY)  
JOINT TYPE 3**

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. JOINT TYPE 1 - SAW CUT SHRINKAGE CONTROL JOINT TO BE CUT WITHIN 24 HOURS OF CONCRETE PLACEMENT. A TOOLED JOINT MAY BE PROVIDED IN LIEU OF A SAWCUT JOINT PROVIDED THE DEPTH AND WIDTH OF SHRINKAGE CONTROL JOINT ARE ACHIEVED
3. JOINT TYPE 2 - EXPANSION JOINT
4. JOINT TYPE 3 - CONTRACTION JOINT - PROPRIETARY CONNOLLY KEY JOINT SHALL BE USED UNLESS APPROVED BY TAMWORTH REGIONAL COUNCIL'S AUTHORISED REPRESENTATIVE. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 25MPa IN ACCORDANCE WITH AS1379 AND AS3600
5. NOMINAL COVER TO REINFORCEMENT SHALL BE 40mm
6. THE TOP SURFACE OF THE CONCRETE SHALL BE WOODEN FLOAT AND BROOM FINISHED TRANSVERSE TO THE DIRECTION OF TRAVEL
7. ALL EXPOSED EDGES TO BE ROUNDED TO A 20mm RADIUS
8. MINIMUM 25mm BEDDING SAND UNDERLAY
9. MINIMUM WIDTH OF PATH SHALL BE 1200mm FOR A FOOTPATH AND 2500mm FOR A SHARED PATH
10. PROVIDE 1.0mm THICK PLASTIC MEMBRANE BETWEEN THE UNDERSIDE OF THE SLAB AND THE BEDDING SAND
11. SURFACE OF FOOTPATH AND SHARED PATH IS TO BE FINISHED FLUSH WITH THE NATURAL SURFACE
12. FOOTPATH TO BE THICKENED TO 150mm AT DRIVEWAY LOCATIONS AND MESH PROVIDED REGARDLESS OF THE USE OF FIBRES. SEE TRC STANDARD DRAWING RD010 FOR DETAILS
13. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED FLUSH WITH THE TOP OF CONCRETE
14. PRIOR TO THE INITIAL SET OF THE CONCRETE, THE EXPANSION AND CONTRACTION JOINTS SHALL BE SPONGED TO REMOVE ANY CONCRETE SLURRY THAT HAS ACCUMULATED ACROSS THE JOINT

**FIBRE REINFORCED CONCRETE:**

FIBRE REINFORCED CONCRETE PATHS MAY BE PROVIDED IN LIEU OF MESH REINFORCED CONCRETE. WHERE FIBRES ARE USED, THE CONCRETE SHALL BE REINFORCED WITH A MIX OF HIGH PERFORMANCE POLYMER (HPP) FIBRES AND DISCRETE GRADED MONOFILAMENT FIBRES. THE HPP FIBRES SHALL BE PROVIDED AS A COARSE FILAMENT OF NO LESS THAN 600 DENIER. THESE FIBRES SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE AND ADDED TO THE CONCRETE BY THE PREMIX CONCRETE SUPPLY COMPANY AT THE RATE OF 4.6kg PER CUBIC METRE. THE 4.6kg SHALL CONSIST OF 3.8kg OF THE HPP AND 0.8kg OF DISCRETE GRADED MONOFILAMENT FIBRES. WHERE FIBRES ARE INCORPORATED INTO THE CONCRETE MIX, SHRINKAGE CONTROL JOINTS (JOINT TYPE 1) MAY BE TOOLED OR SAW CUT.



**TYPICAL CROSS SECTION  
FOOTPATH AND SHARED PATH**

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

FOOTPATH AND SHARED PATH  
SHEET 1 OF 2

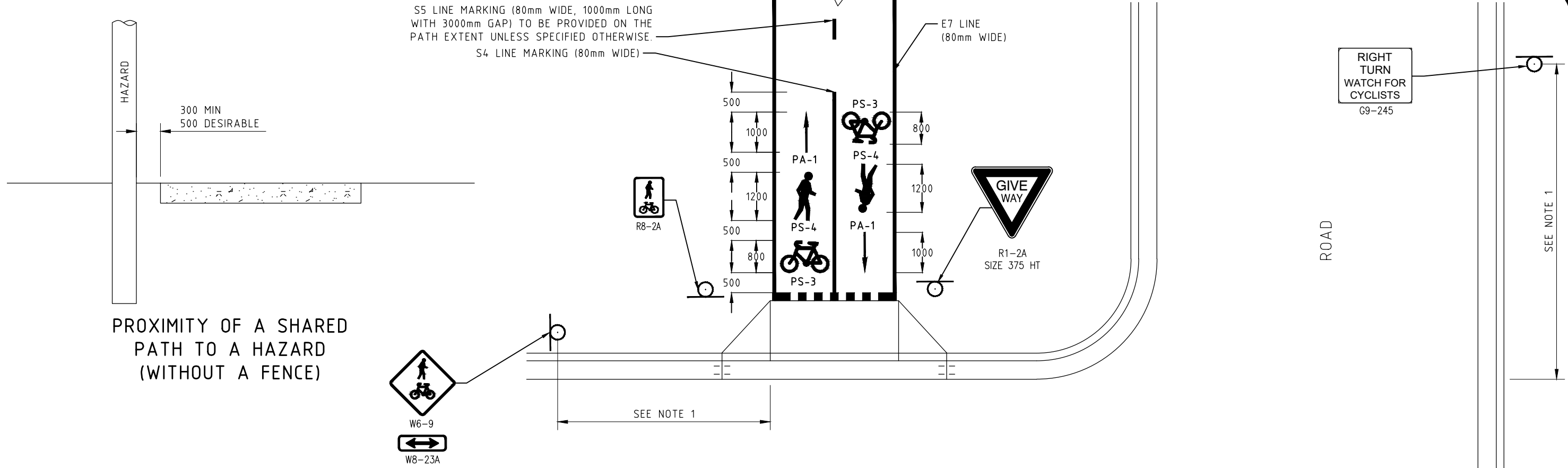
REVISION: 2

ISSUE DATE: MAY 2023

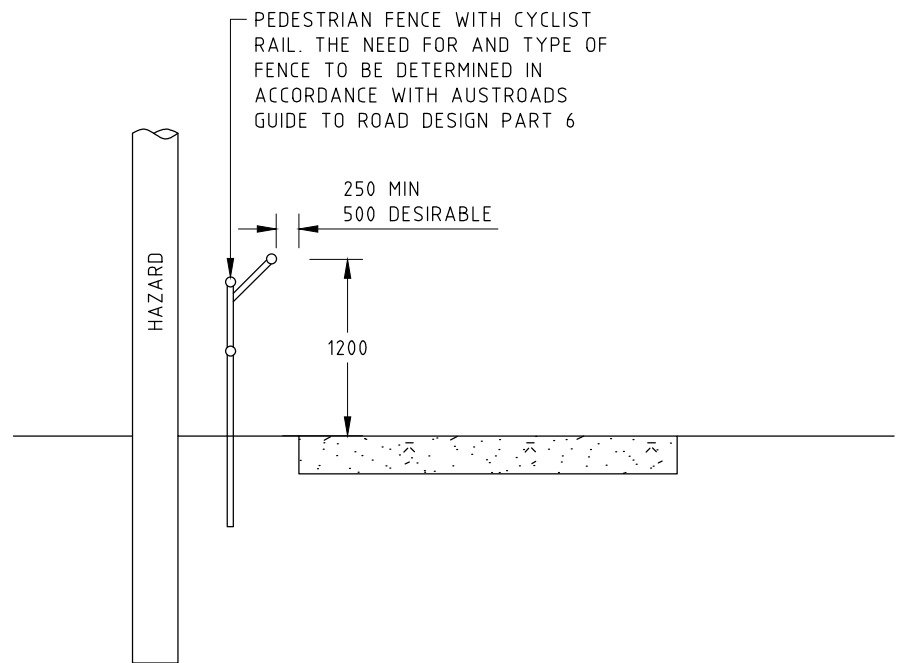
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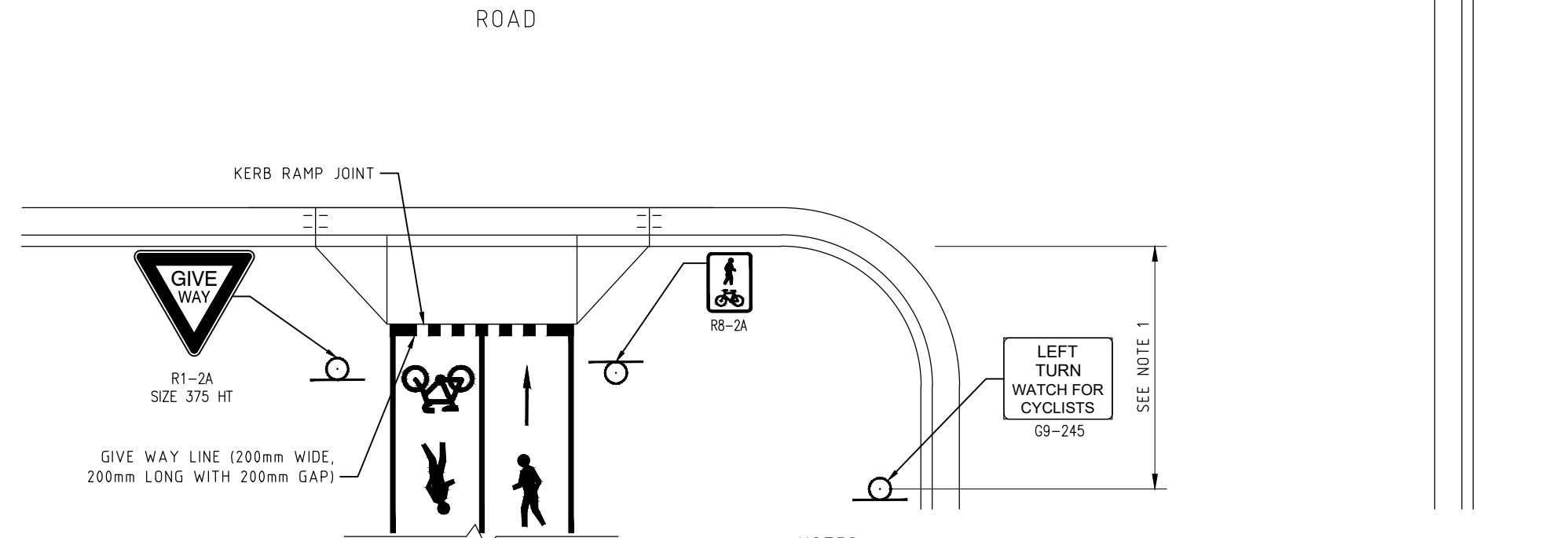
S5 LINE MARKING (80mm WIDE, 1000mm LONG WITH 3000mm GAP) TO BE PROVIDED ON THE PATH EXTENT UNLESS SPECIFIED OTHERWISE.  
S4 LINE MARKING (80mm WIDE)



PROXIMITY OF A SHARED PATH TO A HAZARD (WITHOUT A FENCE)



PROXIMITY OF SHARED PATH TO A HAZARD (WITH A FENCE)



TYPICAL SHARED PATH LINEMARKING

- NOTES:
1. THE LOCATION OF THE W6-9 AND G9-245 SIGNS SHALL BE DETERMINED BY THE DESIGNER AND ARE TYPICALLY LOCATED 50m FROM THE PATH CROSSING
  2. WHERE THERE ARE SPACE OR SERVICES CONSTRAINTS ON EITHER SIDE OF THE KERB RAMPS, THE R8-2A AND R1-2A SIGNS MAY BE COMBINED ON A SINGLE POLE
  3. G9-58 CYCLIST DISMOUNT SIGNS SHALL BE PROVIDED ADJACENT TO THE PATH WHERE THE PATH WIDTH REDUCES TO LESS THAN 2000mm OR WHERE A PEDESTRIAN REFUGE IS PROVIDED TO CROSS THE ROAD

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

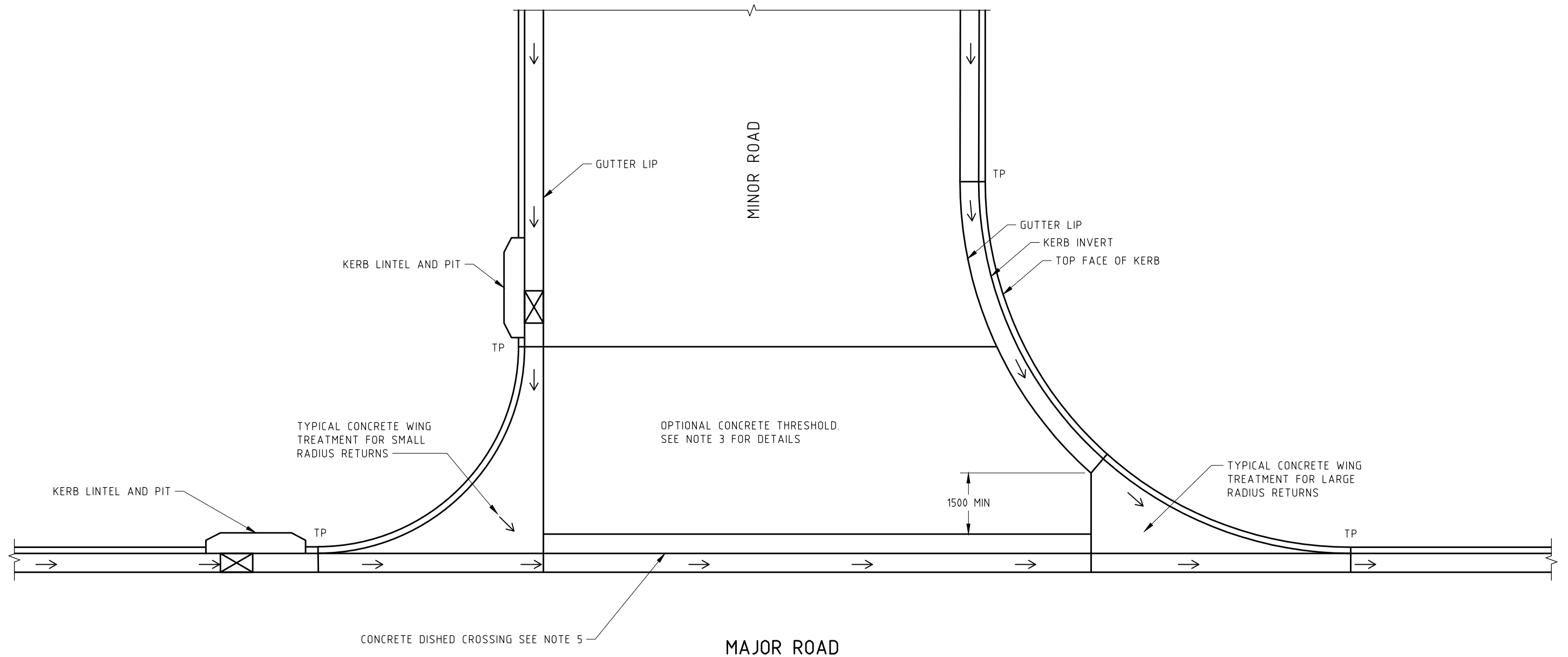
FOOTPATH AND SHARED PATH  
SHEET 2 OF 2

REVISION: 2

ISSUE DATE: MAY 2023

DRAWING NUMBER: RD008





**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 25MPa IN ACCORDANCE WITH AS1379 AND AS3600
3. THE OPTIONAL CONCRETE THRESHOLD MAY BE CONSTRUCTED WITH CONCRETE FOR NARROW WIDTH ROADWAYS AND SHALL BE ADOPTED WHERE FALL ACROSS THE ROAD CAN NOT BE ACHIEVED.
4. WING TREATMENTS SHALL PROVIDE CONSTANT GRADES TO ENSURE THE STORMWATER IS CONVEYED ACROSS THE INTERSECTION
5. DISH CROSSING TO BE CONSTRUCTED PER URBAN DISH CROSSING ON RD003

→ DENOTES DIRECTION OF STORMWATER FLOW

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

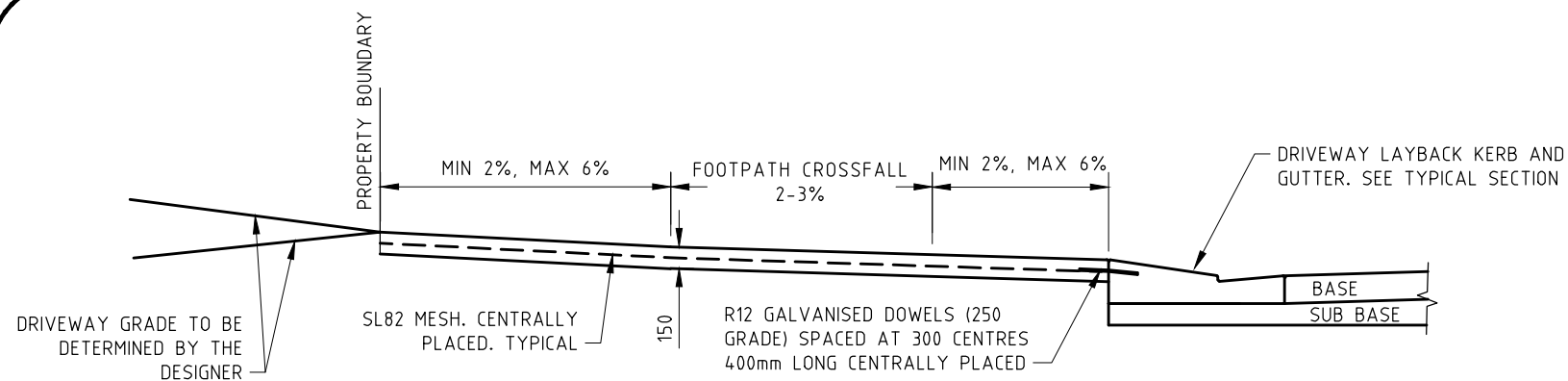
CONCRETE DISH / WING  
CROSSINGS AT INTERSECTIONS

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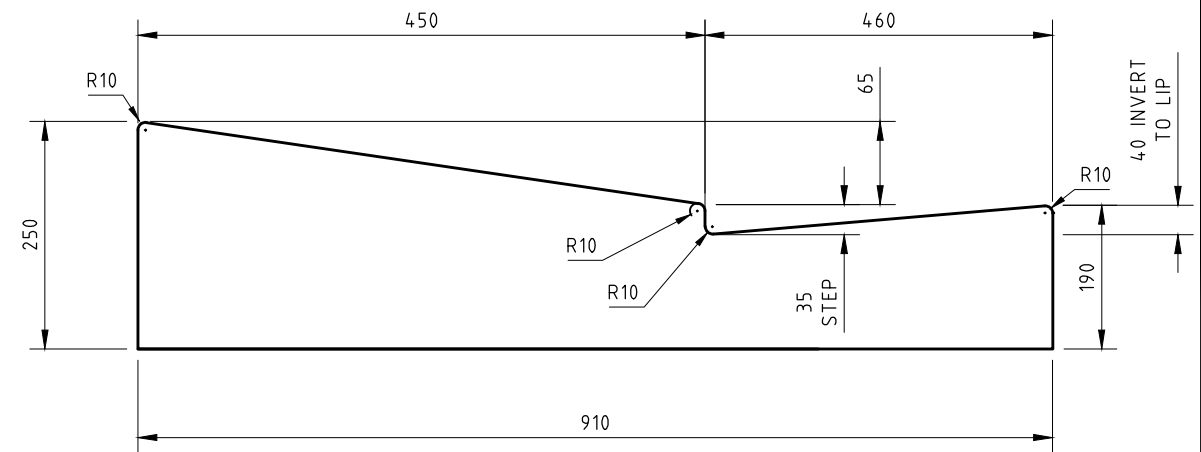
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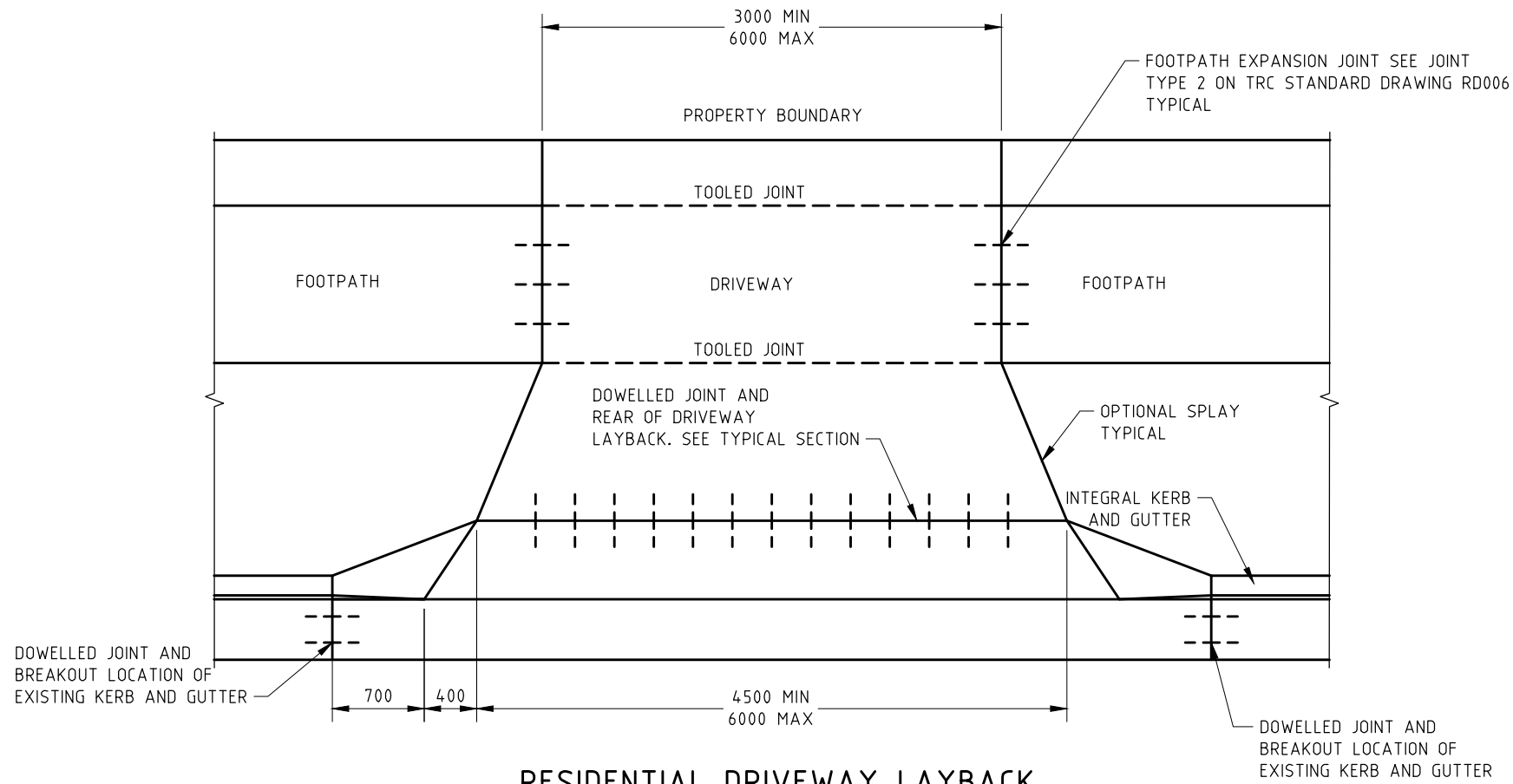


**TYPICAL SECTION THROUGH DRIVEWAY LAYBACK**

**NOTE:**  
WHERE THE DRIVEWAY GEOMETRY CANNOT MEET THE ABOVE REQUIREMENTS, ALTERNATIVE PROPOSALS MAY BE ACCEPTED BY TRC'S AUTHORISED REPRESENTATIVE PROVIDED THEY SATISFY VERTICAL CLEARANCE REQUIREMENTS OF AS 2890.1 FOR B99 VEHICLES AND IT CAN BE DEMONSTRATED THAT THE MAJOR DRAINAGE SYSTEM IS NOT COMPROMISED



**TYPICAL SECTION  
DRIVEWAY LAYBACK KERB AND GUTTER**



**RESIDENTIAL DRIVEWAY LAYBACK**

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES
  2. FOR INTEGRAL KERB AND GUTTER DETAILS SEE TRC STANDARD DRAWING RD003
  3. THE MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 25MPa IN ACCORDANCE WITH AS1379 AND AS3600
  4. NOMINAL COVER TO REINFORCEMENT SHALL BE 40mm
  5. ALL EDGES TO BE SHAPED WITH AN EDGING TOOL (25mm RADIUS)
  6. A TOOLED JOINT SHALL BE PROVIDED AT DRIVEWAY CHANGES IN GRADE
  7. DOWELS AT THE REAR OF THE DRIVEWAY LAYBACK AND EXISTING KERB AND GUTTER LOCATIONS MAY BE EXCLUDED IF THE DRIVEWAY IS CAST INTEGRAL WITH THE KERB AND GUTTER
  8. THE GRADIENT OF DOMESTIC DRIVEWAYS SHALL BE DESIGNED IN ACCORDANCE WITH CLAUSE 2.6 OF AS 2890.1 FOR B99 VEHICLES

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

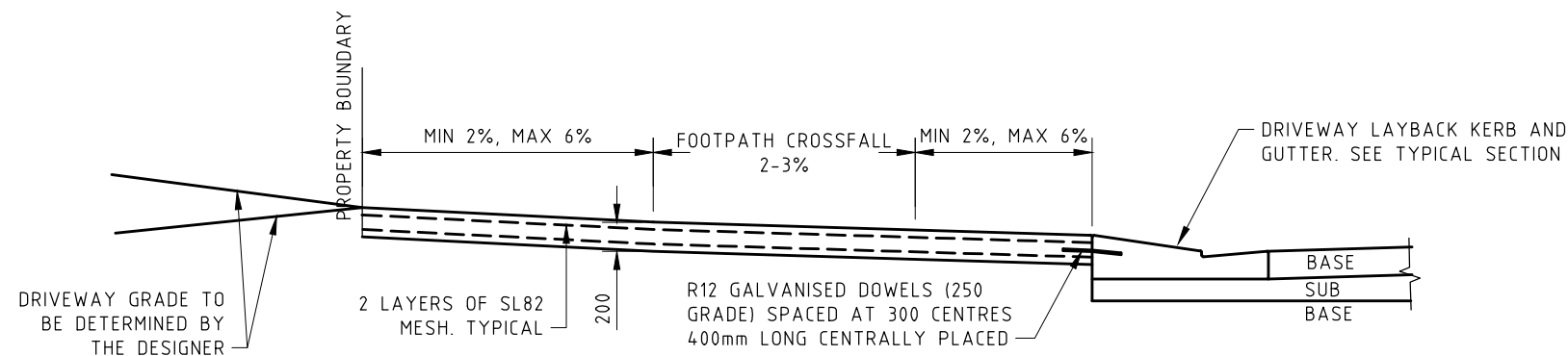
DRIVEWAYS -  
URBAN RESIDENTIAL

REVISION: 2

ISSUE DATE: MAY 2023

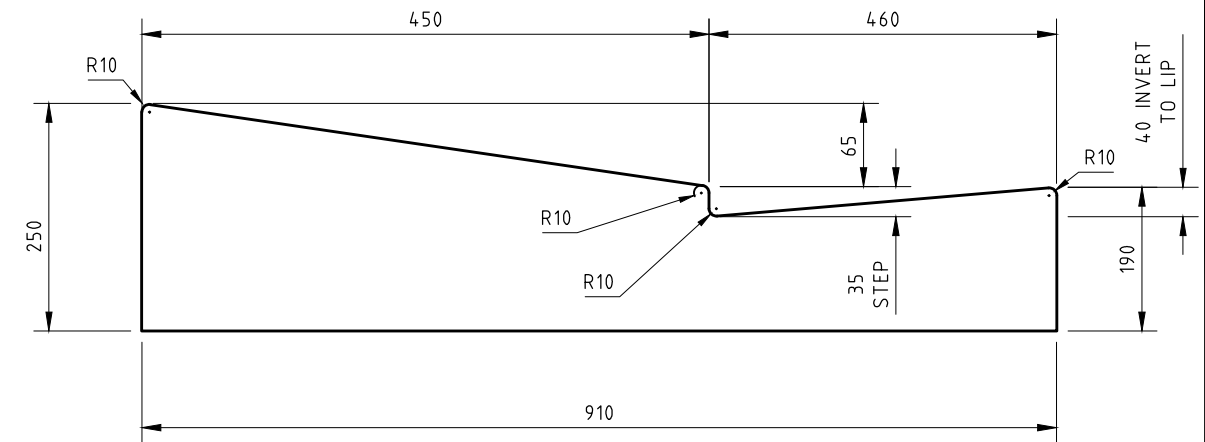
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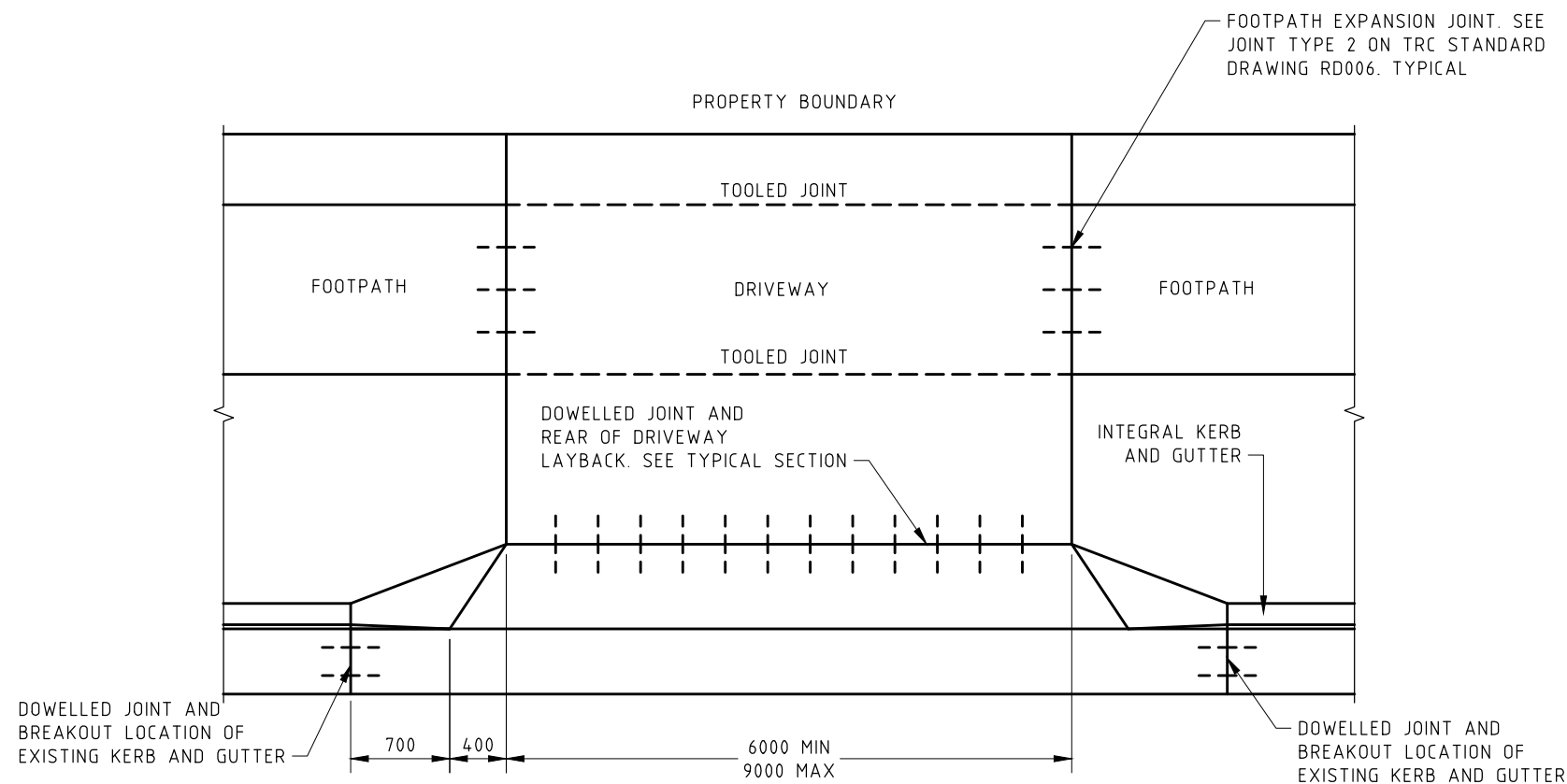


**NOTE:**  
WHERE THE DRIVEWAY GEOMETRY CANNOT MEET THE ABOVE REQUIREMENTS, ALTERNATIVE PROPOSALS MAY BE ACCEPTED BY TRC'S AUTHORISED REPRESENTATIVE PROVIDED THEY SATISFY VERTICAL CLEARANCE REQUIREMENTS OF AS 2890.1 FOR B99 VEHICLES AND IT CAN BE DEMONSTRATED THAT THE MAJOR DRAINAGE SYSTEM IS NOT COMPROMISED

TYPICAL SECTION THROUGH DRIVEWAY LAYBACK



TYPICAL SECTION  
DRIVEWAY LAYBACK KERB AND GUTTER



COMMERCIAL / INDUSTRIAL DRIVEWAY LAYBACK

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. FOR INTEGRAL KERB AND GUTTER DETAILS SEE TRC STANDARD DRAWING RD003
3. THE MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 32MPa IN ACCORDANCE WITH AS1379 AND AS3600
4. NOMINAL COVER TO REINFORCEMENT SHALL BE 40mm
5. ALL EDGES TO BE SHAPED WITH AN EDGING TOOL (25mm RADIUS)
6. A TOOLED JOINT SHALL BE PROVIDED AT DRIVEWAY CHANGES IN GRADE
7. DOWELS AT THE REAR OF THE DRIVEWAY LAYBACK AND EXISTING KERB AND GUTTER LOCATIONS MAY BE EXCLUDED IF THE DRIVEWAY IS CAST INTEGRAL WITH THE KERB AND GUTTER
8. THE GRADIENT OF DRIVEWAYS SHALL BE DESIGNED IN ACCORDANCE WITH CLAUSE 2.6 OF AS 2890.1 FOR B99 VEHICLES
9. WHERE A DRIVEWAY WIDTH IN EXCESS OF 9000mm IS REQUIRED TO ACCOMMODATE THE SWEEP PATH OF A HEAVY VEHICLE, A 50mm HIGH CONCRETE THRESHOLD WITH ROUNDED EDGES INCORPORATING LINE MARKING AND PAINTED CHEVRONS SHALL BE PROVIDED FOR THE EXTENT OF THE DRIVEWAY THAT EXCEEDS 9000mm IN WIDTH TO MINIMISE THE ENTRY SPEED OF SMALLER VEHICLES. THE SITE SPECIFIC PROPOSAL SHALL BE DEMONSTRATED FOR ITS SUITABILITY BY THE DESIGNER AND AGREED WITH BY TRC'S NOMINATED REPRESENTATIVE.

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

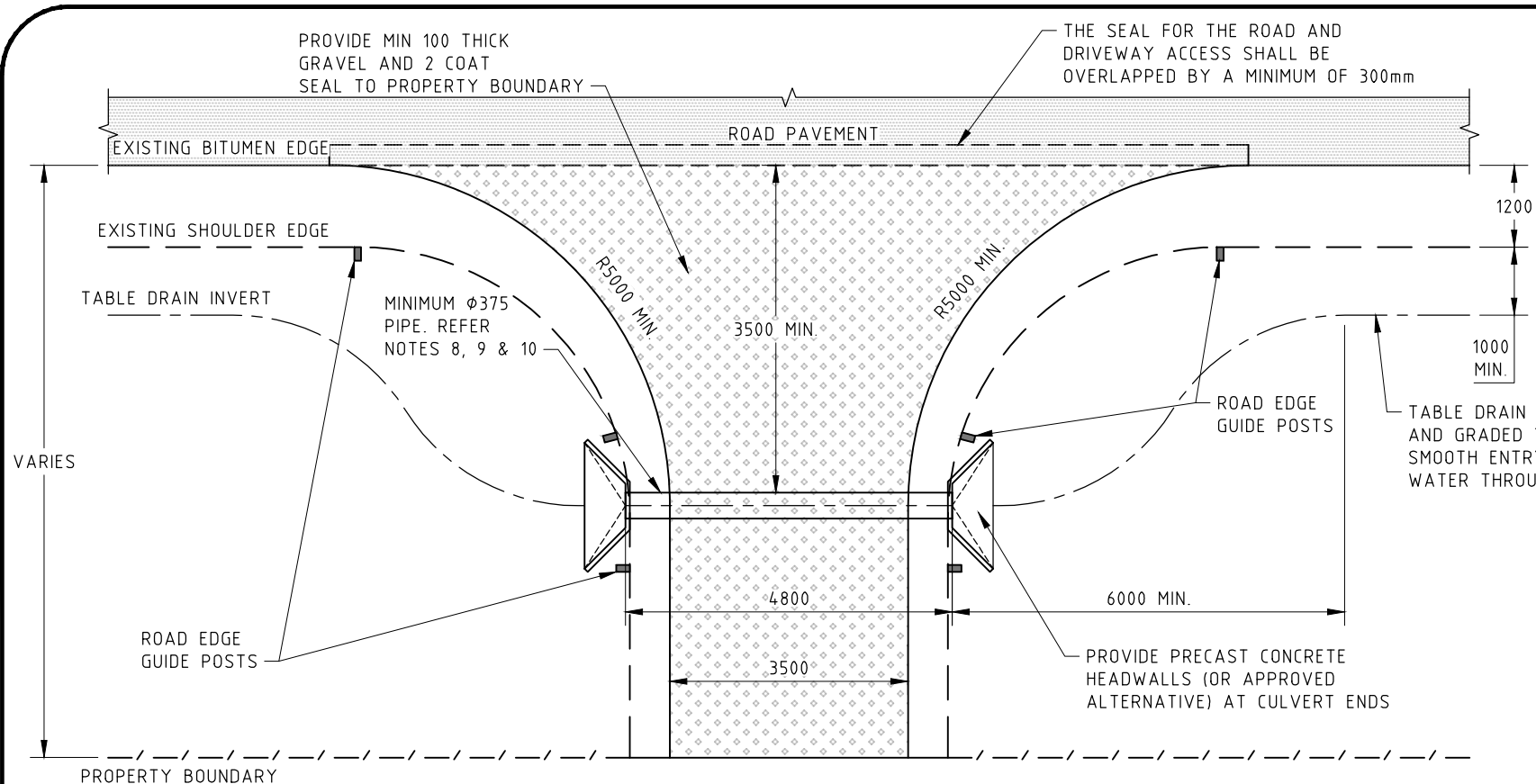
DRIVEWAYS -  
COMMERCIAL AND INDUSTRIAL

REVISION: 2

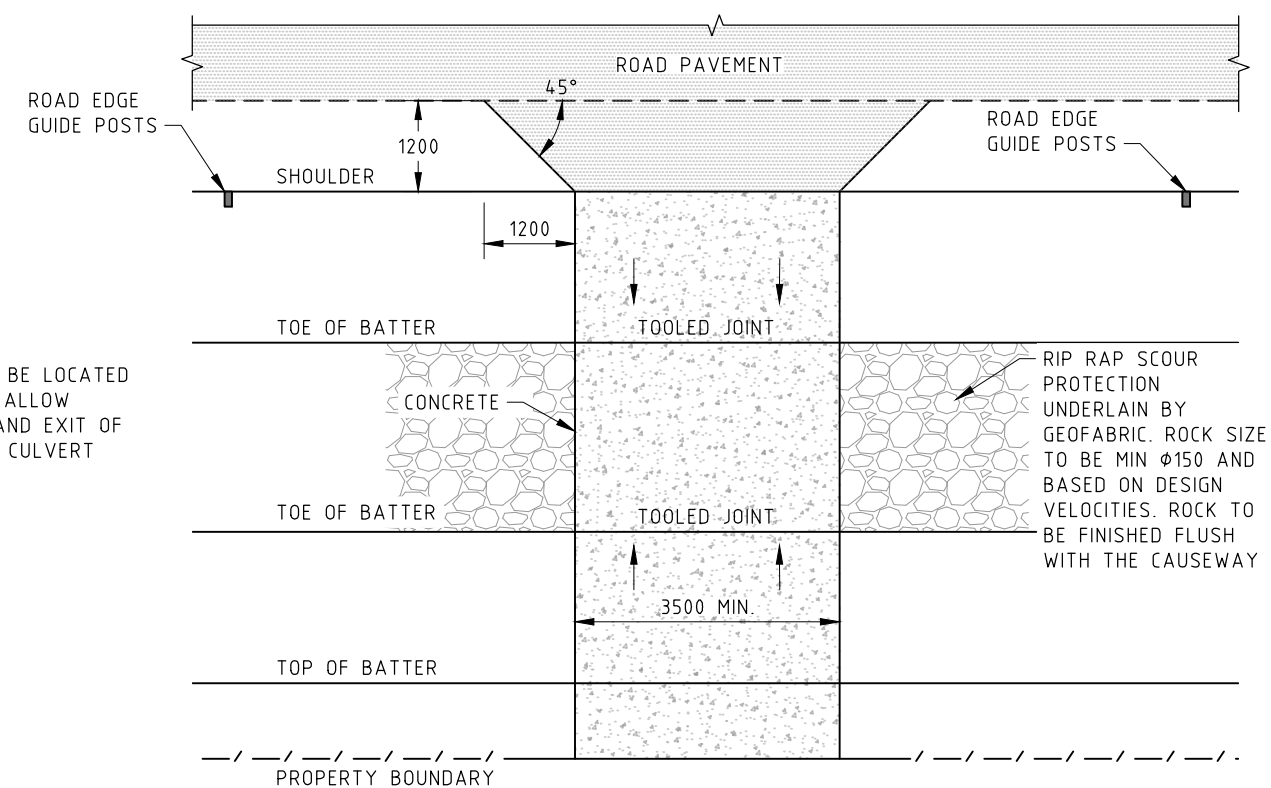
ISSUE DATE: MAY 2023

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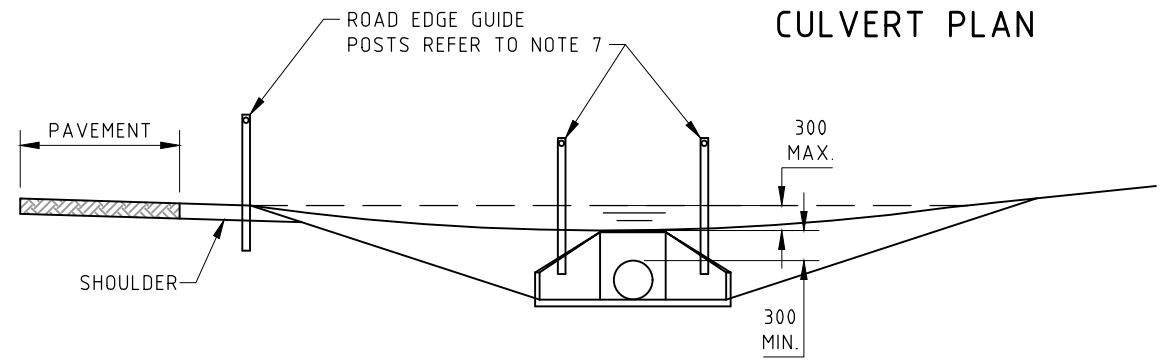




**CULVERT PLAN**

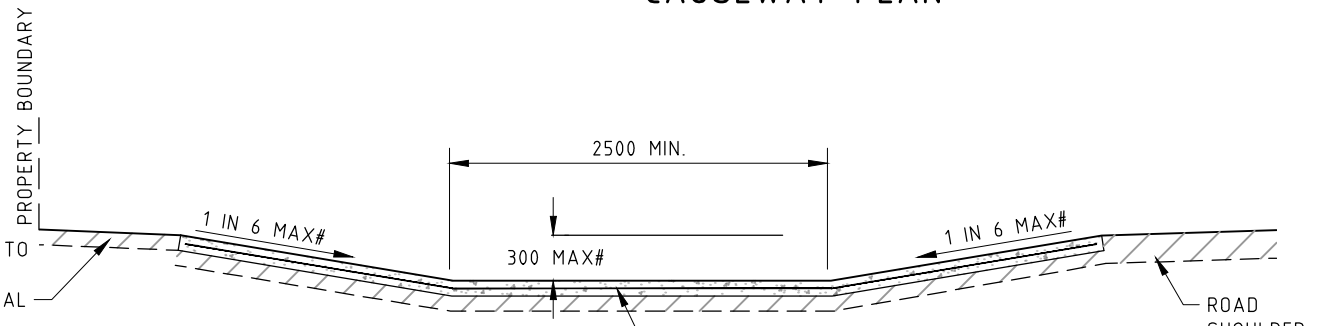


**CAUSEWAY PLAN**

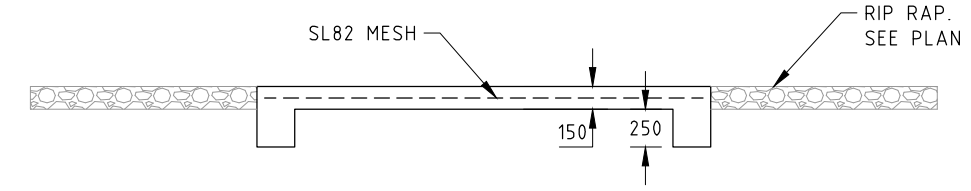


**DRIVEWAY ELEVATION**

(NOTE: CULVERT CAN BE OFFSET FROM DRIVEWAY SAG TO ACHIEVE COVER)



**CAUSEWAY END ELEVATION**



**CAUSEWAY CROSS SECTION**

**NOTES:**

1. DO NOT SCALE
2. ALL MEASUREMENTS IN MILLIMETRES
3. A SITE ASSESSMENT (BY TRC'S AUTHORISED REPRESENTATIVE) IS TO OCCUR UPON APPLICATION FOR A PIPE CROSSING. PIPE CROSSINGS ARE NOT TO BE INSTALLED ON ROAD VERGES THAT FALL TO THE SUBJECT PROPERTY WHERE STORM WATER CANNOT BE DIRECTED TO A NATURAL WATER COURSE OR DRAINAGE EASEMENT OR WHEN THERE IS NO UPSTREAM STORM WATER CATCHMENT OR OPEN TABLE DRAIN
4. PERMITS RELATING TO ROADS AND FOOTPATHS MUST BE OBTAINED FROM COUNCIL, SPECIFYING CROSSING TYPE, LOCATION, LEVELS, SURFACE FINISHES AND DIMENSIONS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
5. PROVIDE ROCK, CONCRETE OR STABILISED TURF PROTECTION TO TABLE DRAINS AND OUTLETS WHERE VELOCITIES EXCEED 2m/s.
6. MINIMUM GRADE THROUGH PIPE TO BE 1.0%
7. ROAD EDGE GUIDE POSTS TO BE LOCATED ON SHOULDER APPROXIMATELY 500mm EITHER SIDE OF CULVERT CENTRELINE, AS SHOWN IN PLAN VIEW.
8. TYPE AND CLASS OF PIPE TO BE IN ACCORDANCE WITH THE CURRENT TRC ENGINEERING GUIDELINES
9. HYDRAULIC CAPACITY OF PIPE AND ACCESS TO MATCH THE CAPACITY OF THE TABLE DRAIN. THIS MAY REQUIRE THE USE OF MULTIPLE PIPES.
10. PIPE INVERTS TO MATCH TABLE DRAIN INVERTS.
11. PLAN TO BE READ IN CONJUNCTION WITH TRC STANDARD DRAWING G002 (SERVICES ALLOCATIONS - RURAL RESIDENTIAL
12. CONCRETE CAUSEWAY FINISH TO BE BROOM FINISHED. FINISHED CONCRETE SURFACE TO BE FLUSH WITH TABLE DRAIN PROFILE.
13. DESIGNER TO UNDERTAKE THE APPROPRIATE CHECKS AND PROVIDE EVIDENCE TO COUNCIL TO ENSURE VERTICAL VEHICLE CLEARANCE IS ACHIEVED FOR THE B99 VEHICLE IN ACCORDANCE WITH AS2890.1.
14. GATED ACCESSES SHALL BE RECESSED INTO PROPERTY TO ENSURE DESIGN VEHICLE (INCL. TRAILERS, FLOATS, CARAVANS) DO NOT ENROACH ON ROAD PAVEMENT

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

DRIVEWAYS -

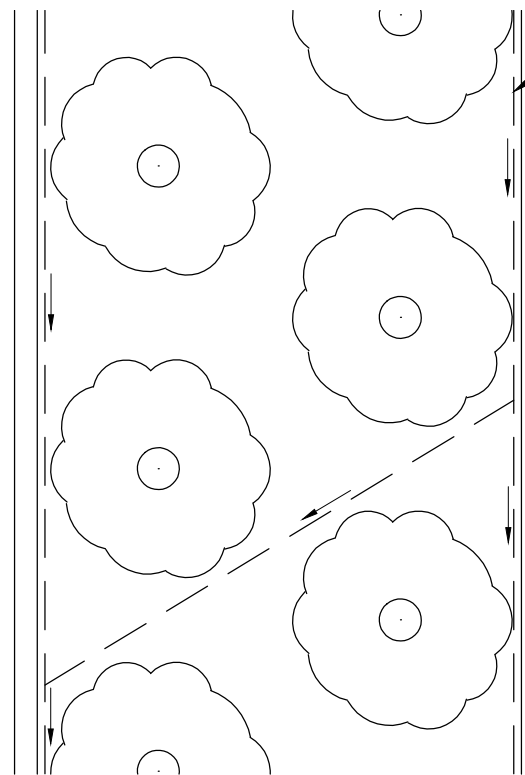
RURAL ACCESS ACROSS TABLE DRAINS

REVISION: 2

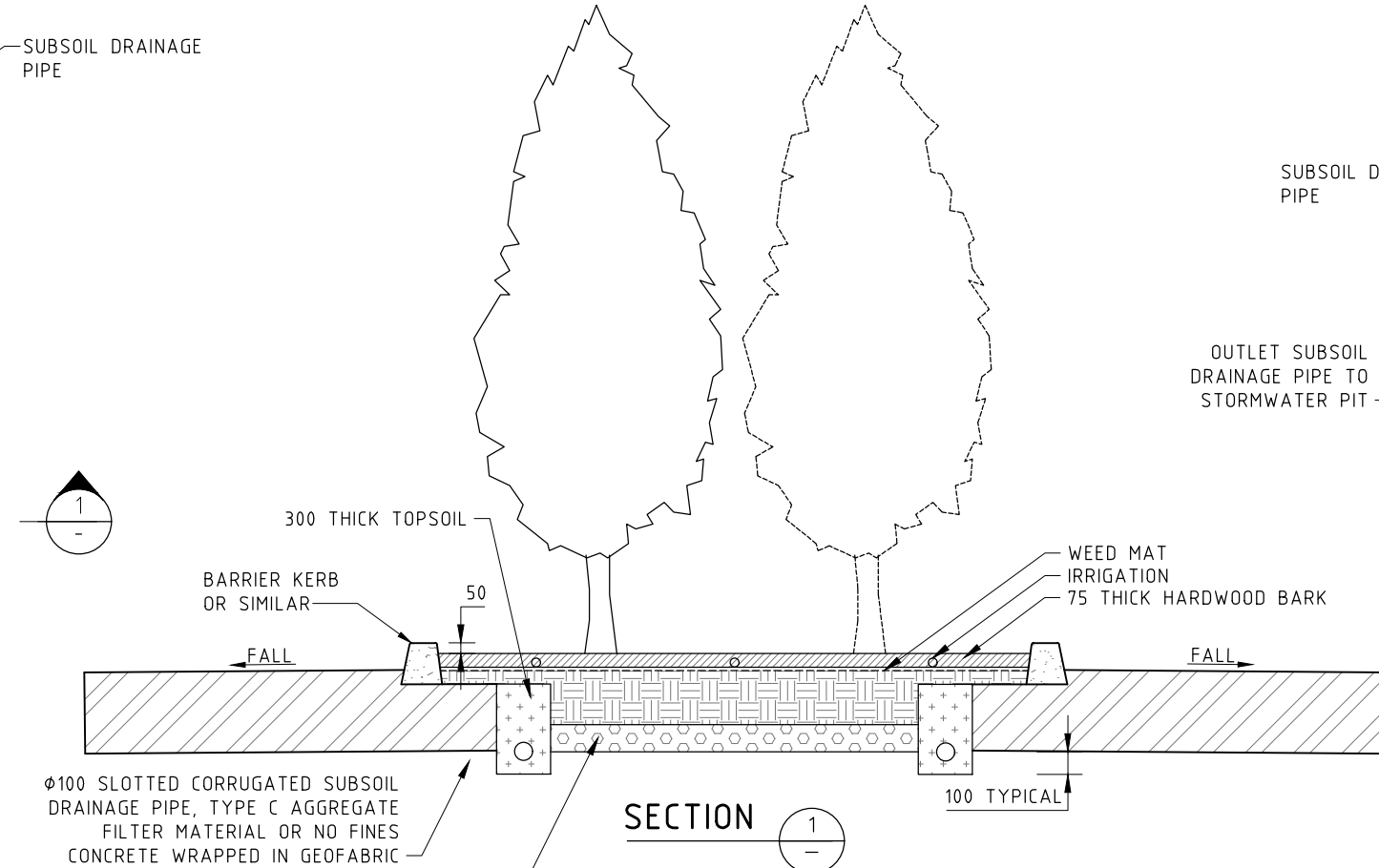
ISSUE DATE: MAY 2023

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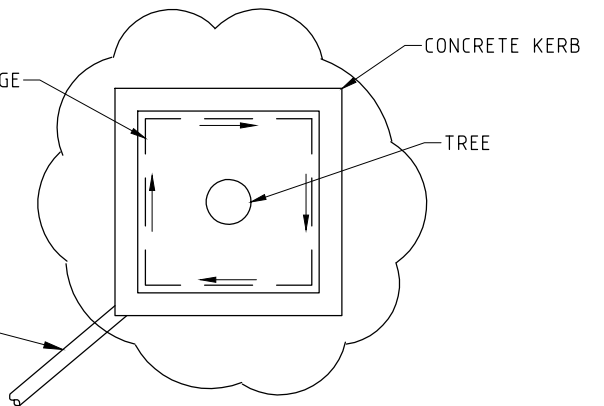




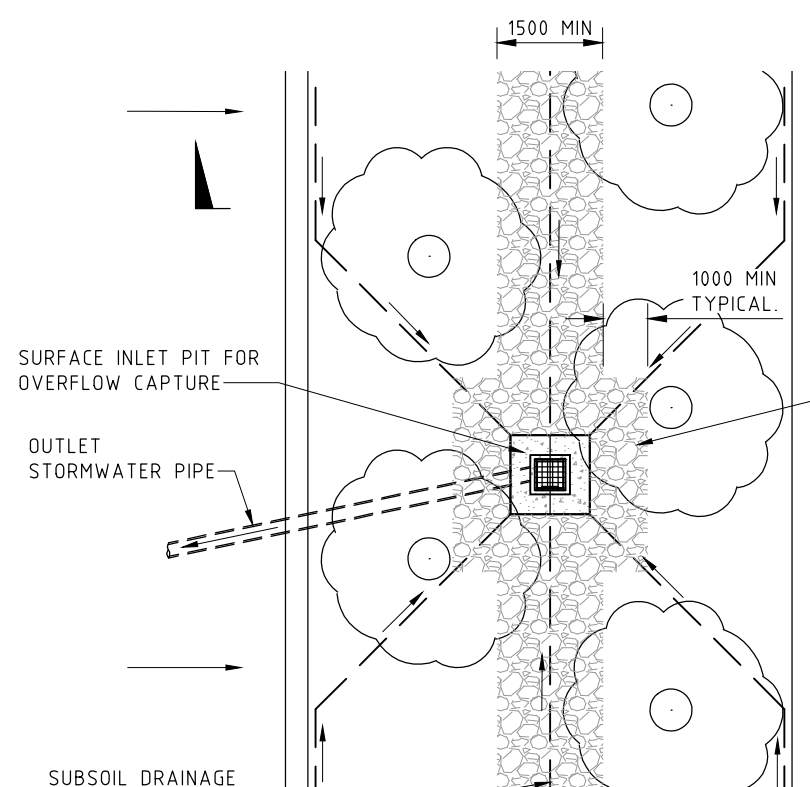
RAISED GARDEN BED



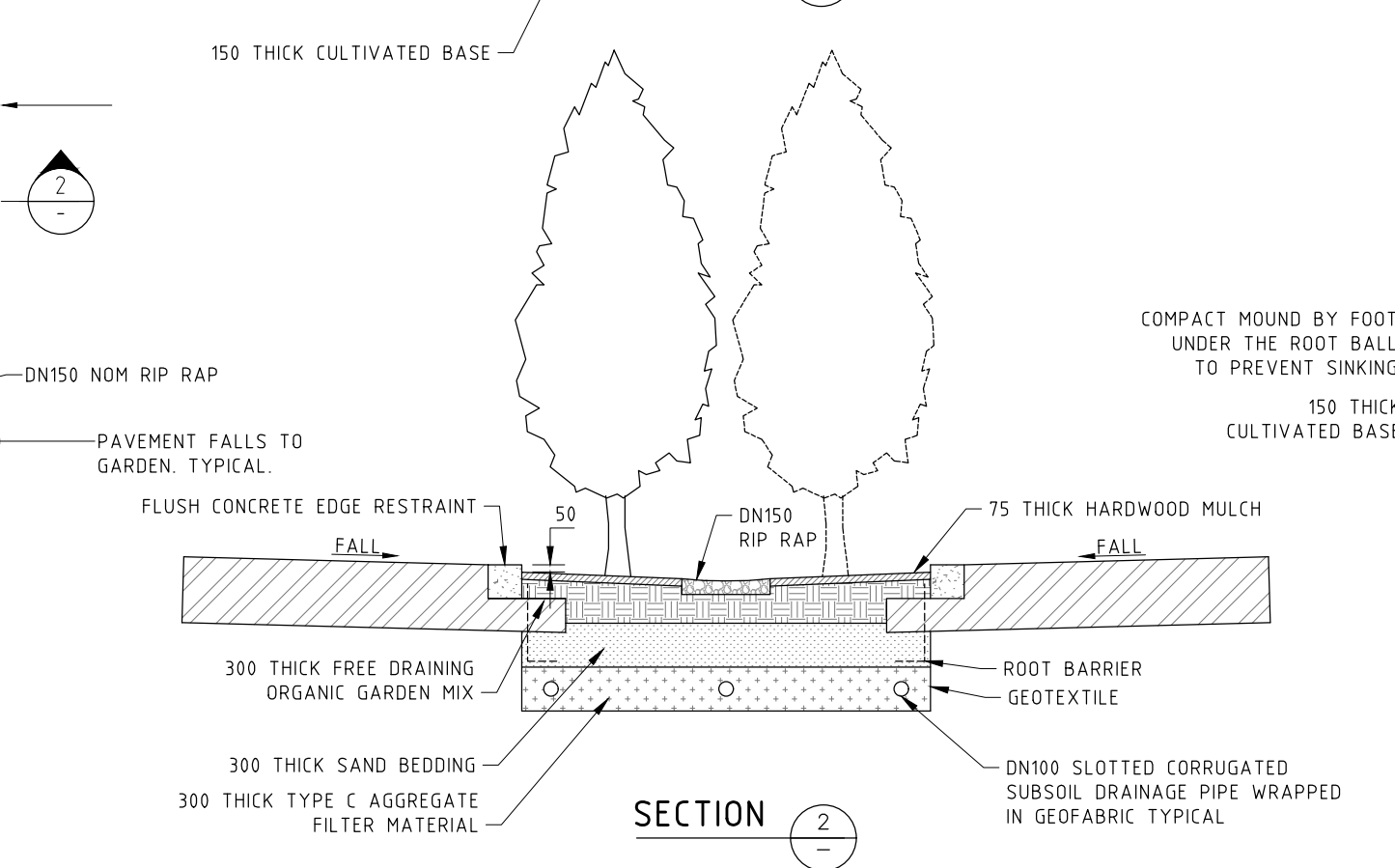
SECTION 1



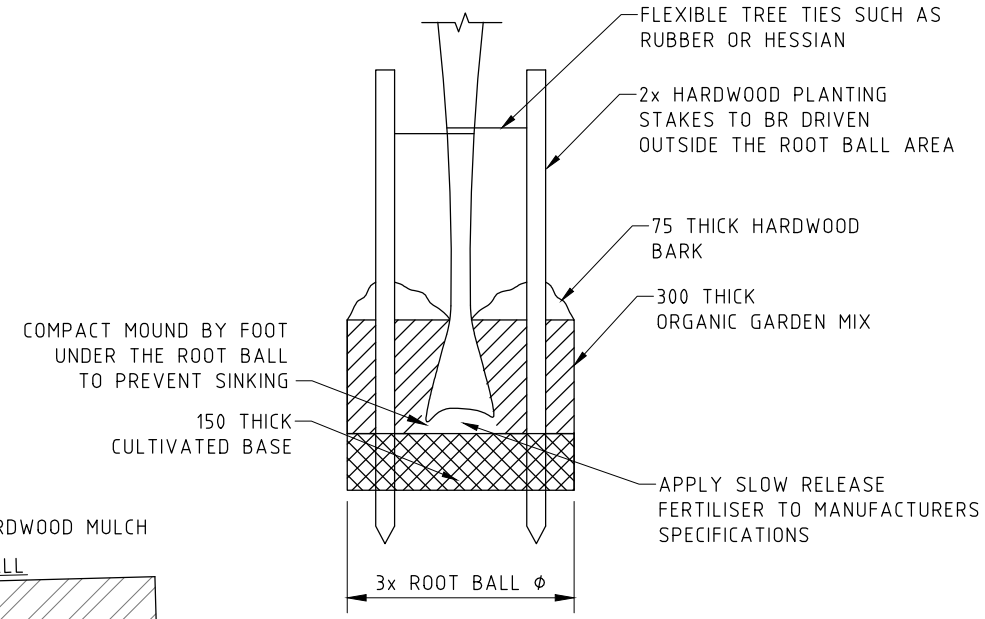
ISOLATED RAISED GARDEN BED



RAIN GARDEN BED



SECTION 2



ADVANCED TREE PLANTING

- NOTES
1. SEE TRC CONSTRUCTION SPECIFICATION C230 FOR AGGREGATE FILTER MATERIAL REQUIREMENTS
  2. THE FREE DRAINING ORGANIC SOIL MIX SHALL NOT CONTAIN SITE SOILS

STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

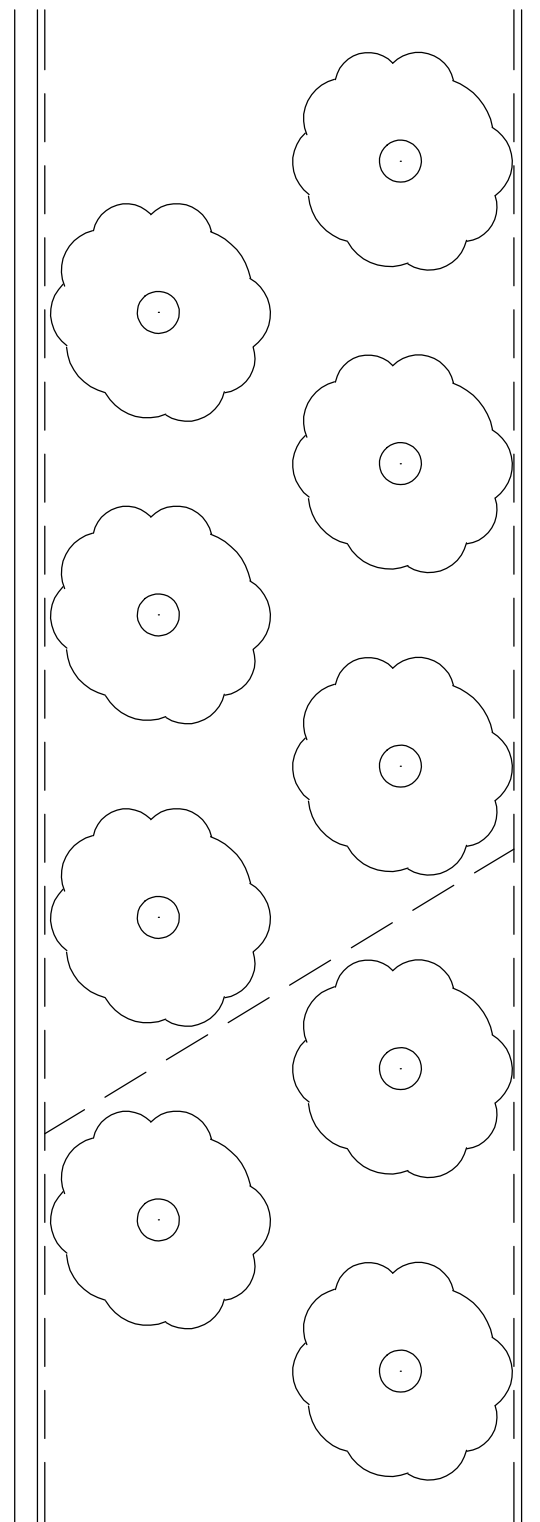
GARDEN BED AND TREE PLANTING  
DETAILS

REVISION: 2

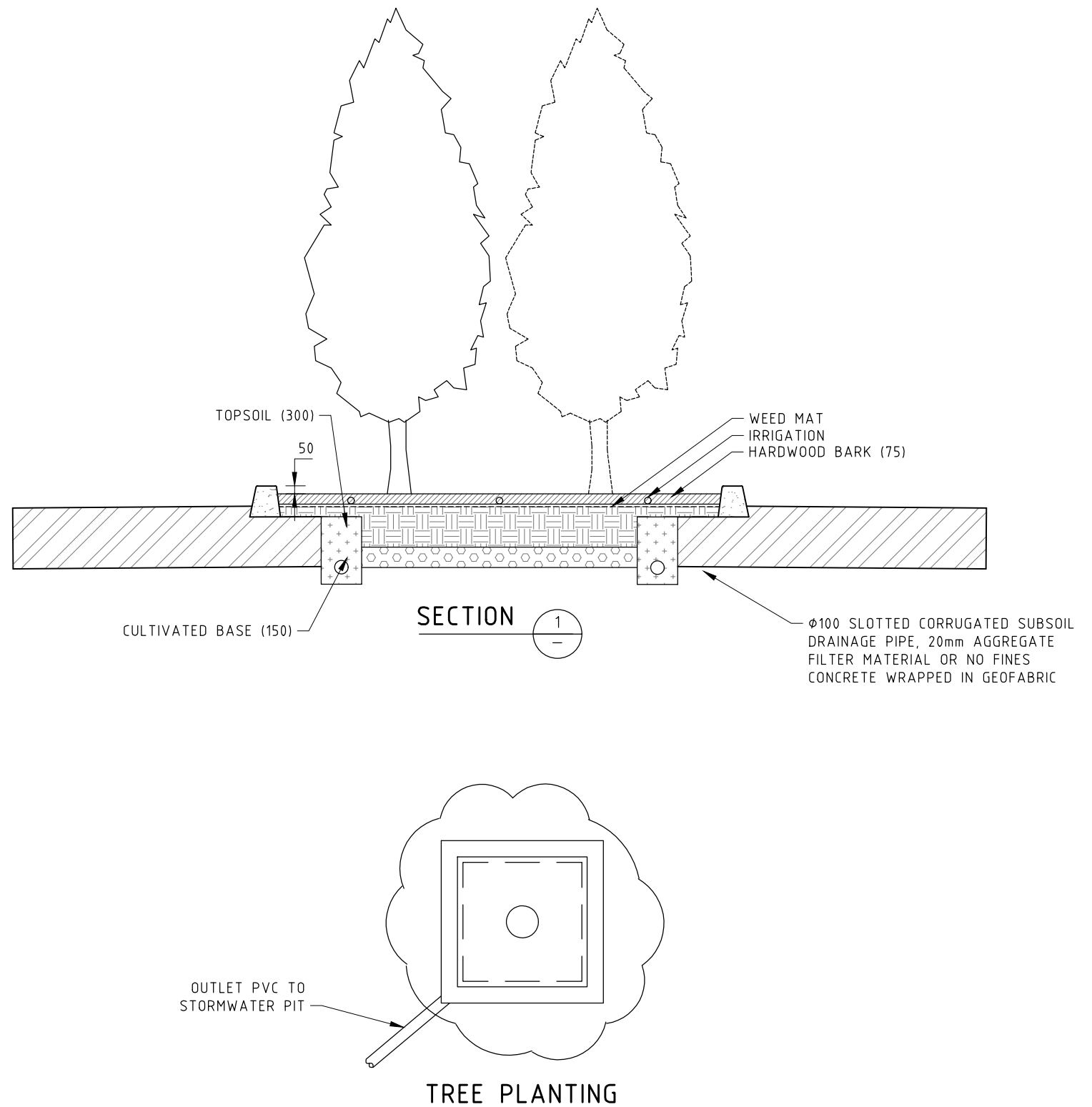
ISSUE DATE: MAY 2023

DRAWING NUMBER: RD013





MEDIAN PLANTING  
RAISED GARDEN



STANDARD DRAWINGS

TAMWORTH REGIONAL COUNCIL  
REGIONAL SERVICES DIRECTORATE

LANDSCAPING WITHIN PAVEMENT  
EXTENTS SHEET 2 OF 2

REVISION: 2

ISSUE DATE: MAY 2023

DRAWING NUMBER: RD014

