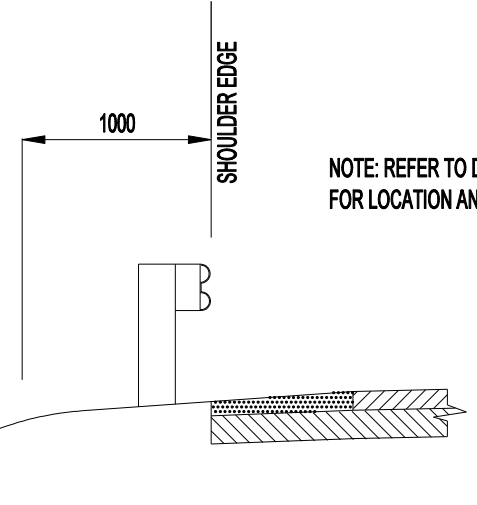


EMBANKMENT

CUTTING



NOTE: REFER TO DIER STANDARD SPECIFICATIONS R62 FOR LOCATION AND DETAILS OF GUARD RAIL

STEEL BEAM GUARD FENCE LOCATION

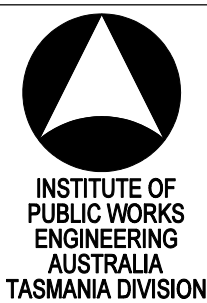
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED
2. WEARING COURSE TO BE EITHER ASPHALT OR TWO (2) COAT SEAL
3. PAVEMENT DEPTHS AS SHOWN ARE THE MINIMUM REQUIRED. FINAL DEPTHS TO BE DETERMINED BY STRUCTURAL CALCULATIONS BASED ON THE ACTUAL SUBGRADE CBR (AS DETERMINED BY APPROVED TEST METHODS) IN ACCORDANCE WITH AUSTRROADS PUBLICATION "A GUIDE TO THE STRUCTURAL DESIGN OF ROAD PAVEMENTS".

TABLE 1. - MAXIMUM BATTER SLOPES

MATERIAL TYPE	EMBANKMENT		CUTTING	
	V	H	V	H
SOLID ROCK	1	0.25	1	0.25
LOOSE ROCK	1	1.33	1	1.33
SOIL	1	1.5	1	1.5
SAND	1	3.00	1	3.00

INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA TASMANIA DIVISION Inc. - 2003 DISCLAIMER.
 The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, or consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.

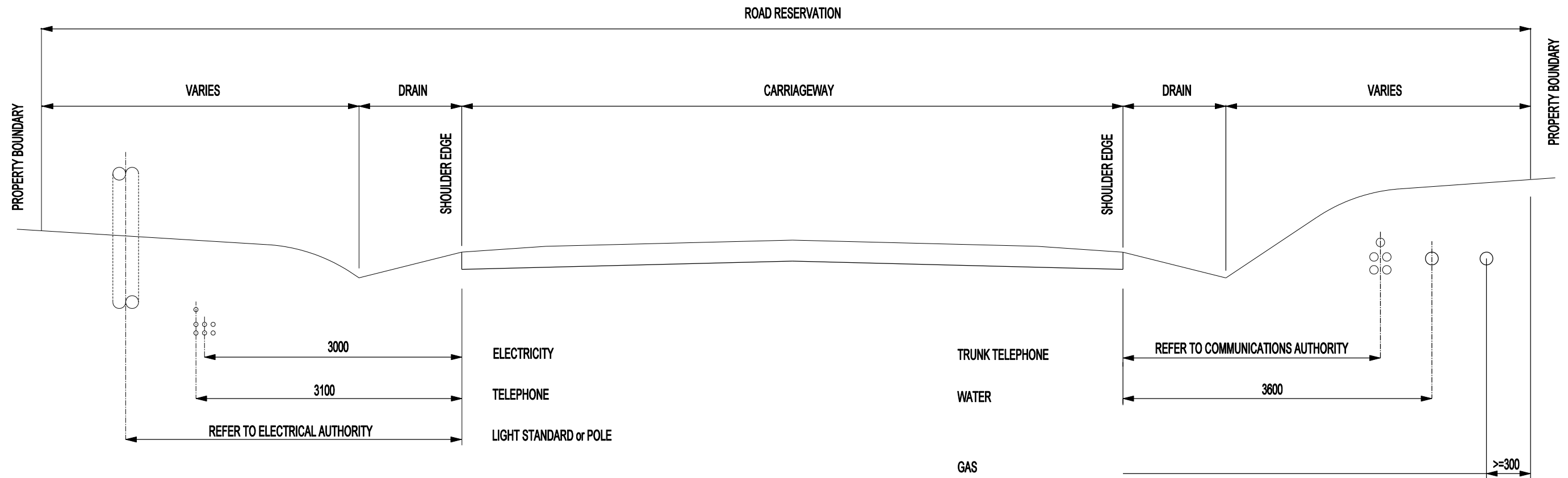


DRAWING TITLE
 TASMANIAN COUNCILS' SUBDIVISION STANDARD DRAWING
RURAL ROADS - TYPICAL CROSS SECTION

SCALE
 NOT TO SCALE

VERSION 2
 1 JANUARY 2007

DRAWING NO.
 SD-1007



MINIMUM DEPTH OF COVER REQUIREMENTS - FOR UNDERGROUND PUBLIC SERVICES

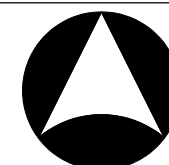
LOCATION			MINIMUM PIPECOVER REQUIRED (mm)			
			SEWER AND STORMWATER	WATER		
		MAINS (dia 100mm or greater)		RODS (dia <100mm)		
PRIVATE PROPERTY	NOT SUBJECT TO VEHICULAR LOADING	back yards, garden areas	450	N/A	N/A	For electricity, telephone and other services, contact the relevant authority for advice.
	SUBJECT TO VEHICULAR LOADING	driveways, parking areas	600	N/A	N/A	
PUBLIC PROPERTY	NOT SUBJECT TO VEHICULAR LOADING	footpaths, nature strip	750	600	450	
	SUBJECT TO VEHICULAR LOADING	vehicular crossing over footpath	750	600	450	
		non-arterial roads	900	750	600	
	arterial roads	1200	900	750		

NOTES:

1. THE AUTHORISED OFFICER MAY VARY THE MINIMUM COVER REQUIREMENTS WHERE NECESSARY
2. CONDUITS MAY BE REQUIRED FOR FUTURE SERVICES REFER TO RELEVANT AUTHORITIES
3. LIGHT POLE/STANDARD TO BE LOCATED IN ACCORDANCE WITH RELEVANT AUTHORITY
4. FOR ELECTRICITY, TELEPHONE AND OTHER SERVICES, CONTACT THE RELAVANT AUTHORITY FOR ADVICE
5. FOR LOCATION OF EXISTING SERVICES CONTACT DIAL BEFORE YOU DIG. PHONE 1100

INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA
TASMANIA DIVISION Inc. - 2003 DISCLAIMER.

The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, or consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.



INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA
TASMANIA DIVISION

DRAWING TITLE

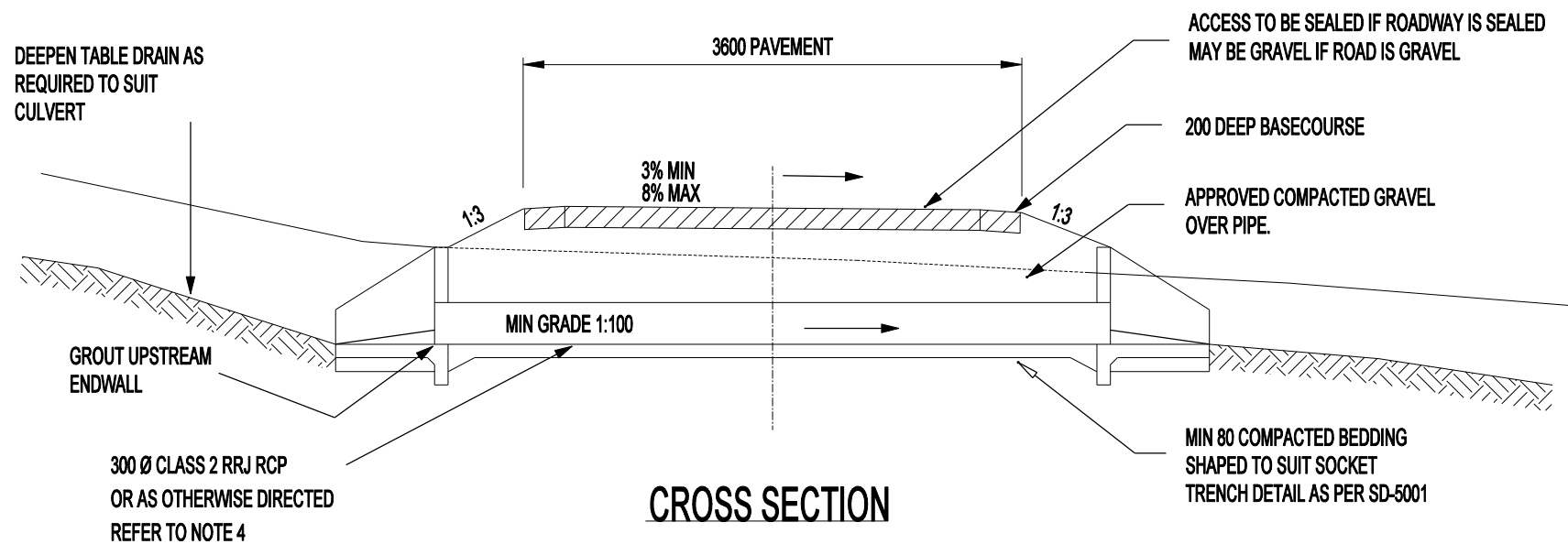
TASMANIAN COUNCILS' SUBDIVISION STANDARD DRAWING

RURAL ROADS - TYPICAL SERVICE LOCATIONS

SCALE
NOT TO SCALE

VERSION 2
1 JANUARY 2007

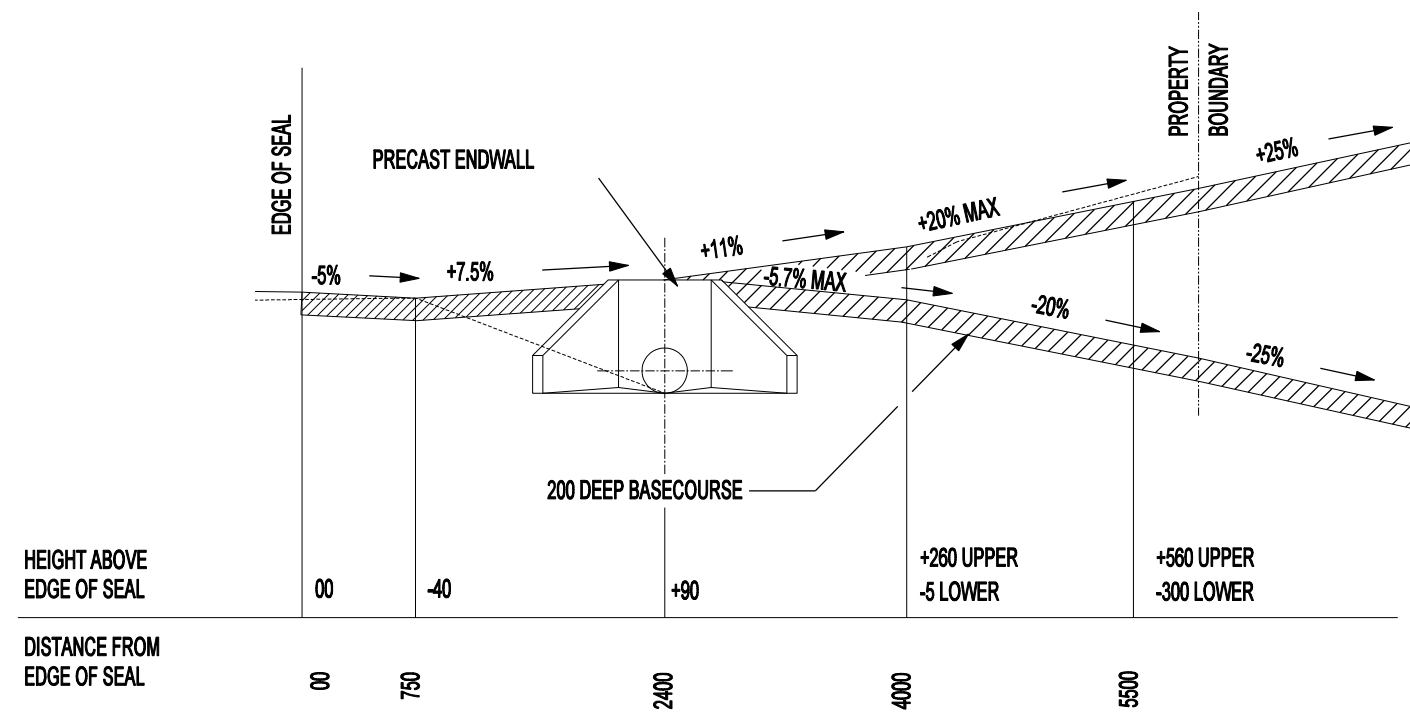
DRAWING NO.
SD-1008



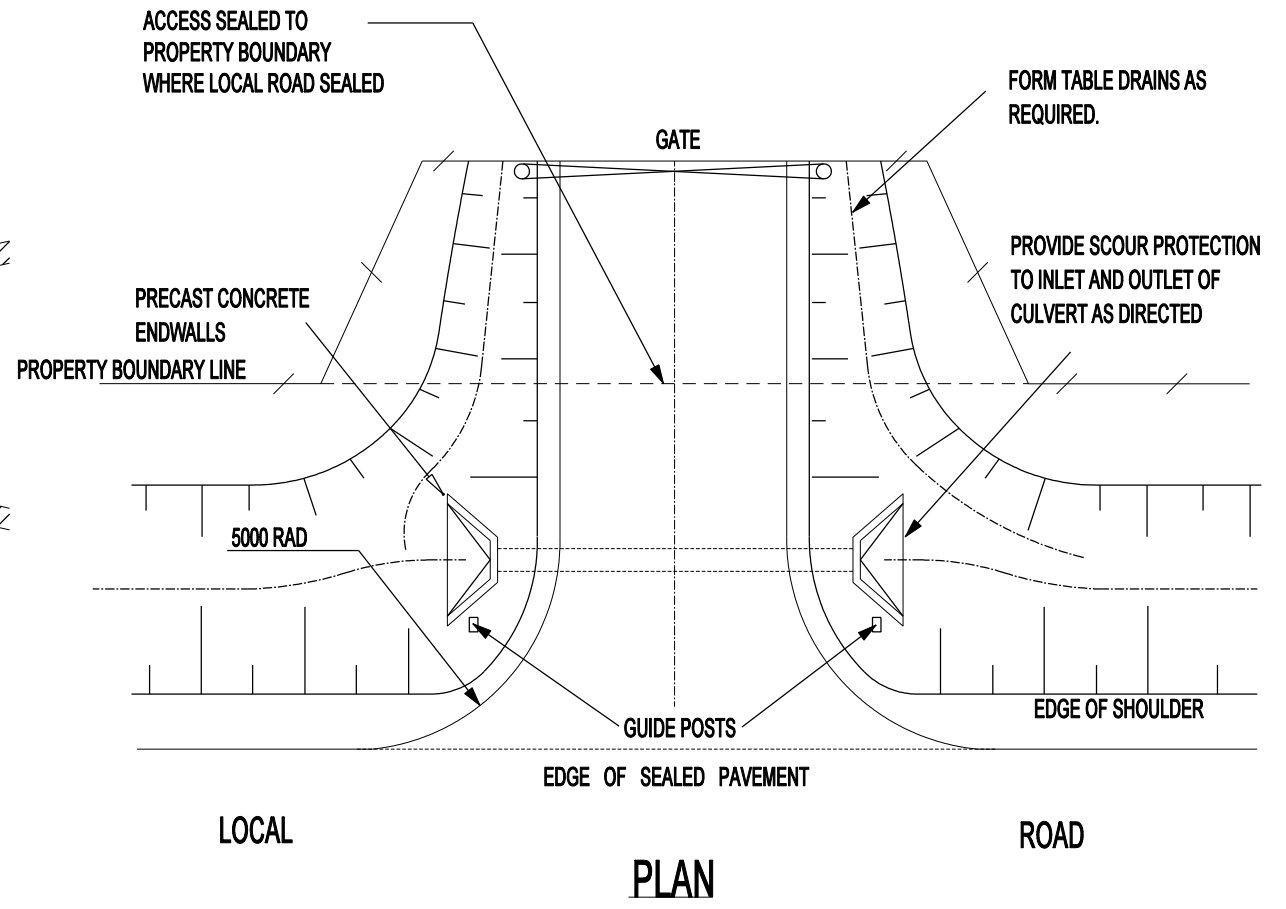
NOTES

1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED
2. PRECAST ENDWALL TO BE WINGED TYPE OR OTHER APPROVED TYPE
3. SHALLOW DISH CROSSING MAY BE USED AS AN ALTERNATIVE
4. MIN CLEAR COVER OVER DRIVEWAY CULVERTS SHALL BE:

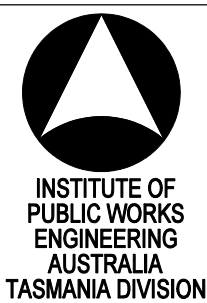
PIPE CLASS	MIN COVER
-CLASS 2	600
-CLASS 3	400
-CLASS 4	300
5. INSTALL GUIDEPOSTS AT CULVERT ENDS REFER SD-1010



DRIVEWAY PROFILE
 DRIVEWAY PROFILE SHOULD BE CHECKED FOR EACH LOCATION AND DESIGNED TO SUIT STANDARD VEHICLES

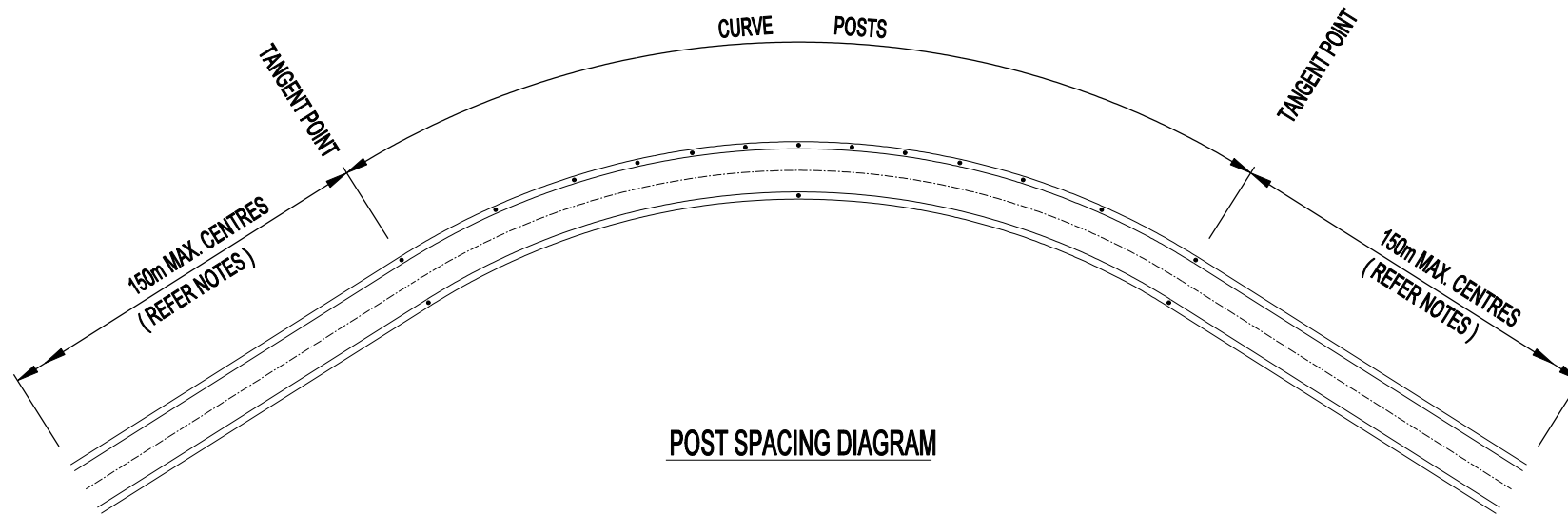


INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA TASMANIA DIVISION Inc. - 2003 DISCLAIMER.
 The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, or consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.



DRAWING TITLE
 TASMANIAN COUNCILS' SUBDIVISION STANDARD DRAWING
RURAL ROADS - TYPICAL STANDARD ACCESS

SCALE NOT TO SCALE	VERSION 2 1 JANUARY 2007	DRAWING NO. SD-1009
------------------------------	------------------------------------	-------------------------------

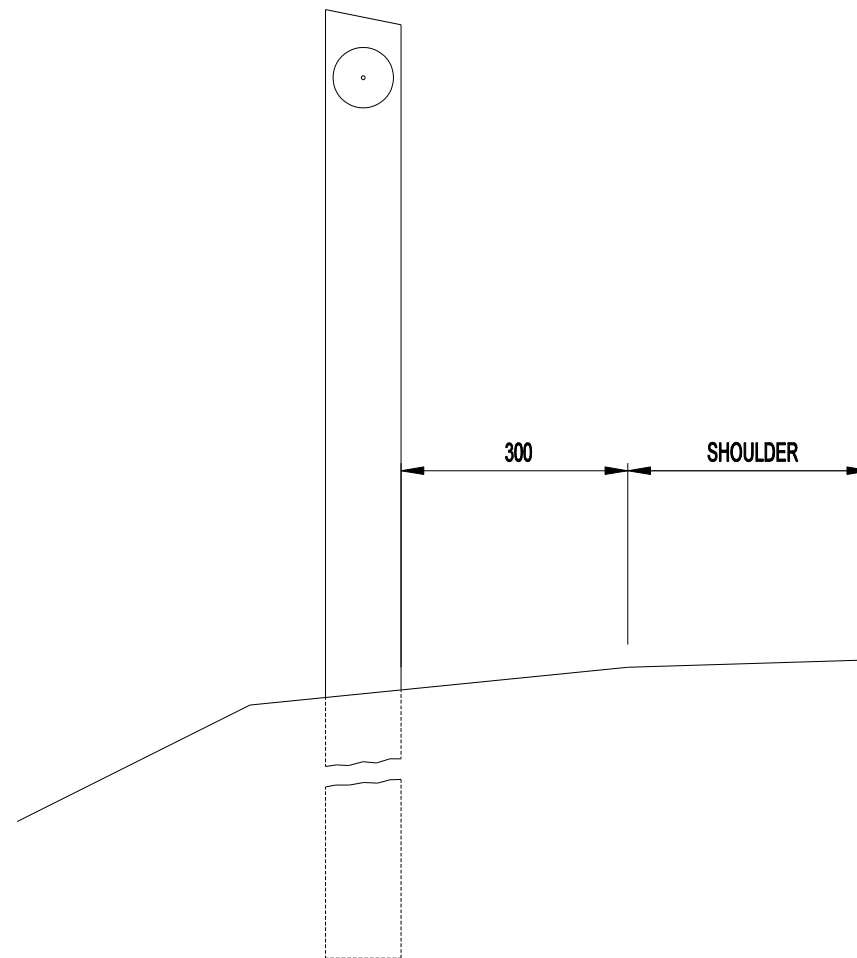


POST SPACING DIAGRAM

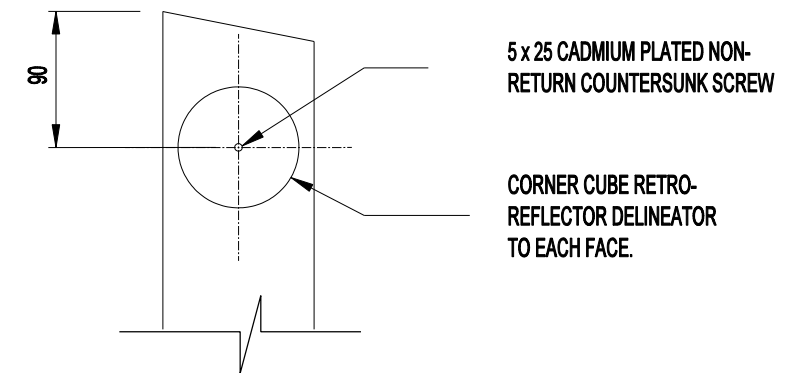
GUIDE POST SPACING ON CURVES

(INCLUDING SPACING OF GUARD FENCE DELINEATORS)

CURVE RADIUS (m)	SPACING (m)	
	ON OUTSIDE OF CURVE	ON INSIDE OF CURVE
< 100	6	12
100 - 199	10	20
200 - 299	15	30
300 - 399	20	40
400 - 599	30	60
600 - 699	40	60
800 - 1 999	60	60
1 200 - 2 000	90 (NOTE 2)	90 (NOTE 2)
>2 000		
INCL. STRAIGHTS	150 (NOTE 2)	150 (NOTE 2)



**GUIDE POST DETAIL
GENERAL ARRANGEMENT**



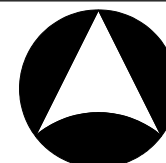
DELINEATOR DETAIL

NOTES

1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED
2. MAXIMUM SPACING OF POSTS TO BE 150m GENERALLY OR 60m IN AREAS SUBJECT TO FOG OR ABOVE R.L. 800m AHD
3. POSTS TO BE INSTALLED AT ALL CULVERT ENDWALLS
4. ON ROAD STRAIGHTS POSTS TO BE INSTALLED IN PAIRS SUCH THAT AT LEAST ONE PAIR IS VISIBLE TO TRAFFIC AT ALL TIMES
5. POSTS TO BE INSTALLED AT TANGENT POINTS OF EVERY CURVE
6. CONTINUE GUIDE POSTS THROUGH CUTTINGS TO PROVIDE CONTINUITY OF DELINEATION TRAFFIC LANE
7. REFER AS 1742.2 - 1999 FOR GUIDE POSTS DETAILS
8. REFER TO DIER STANDARD CONTRACT SPECIFICATIONS FOR MORE DETAIL

**INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA
TASMANIA DIVISION Inc. - 2003 DISCLAIMER.**

The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, or consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.



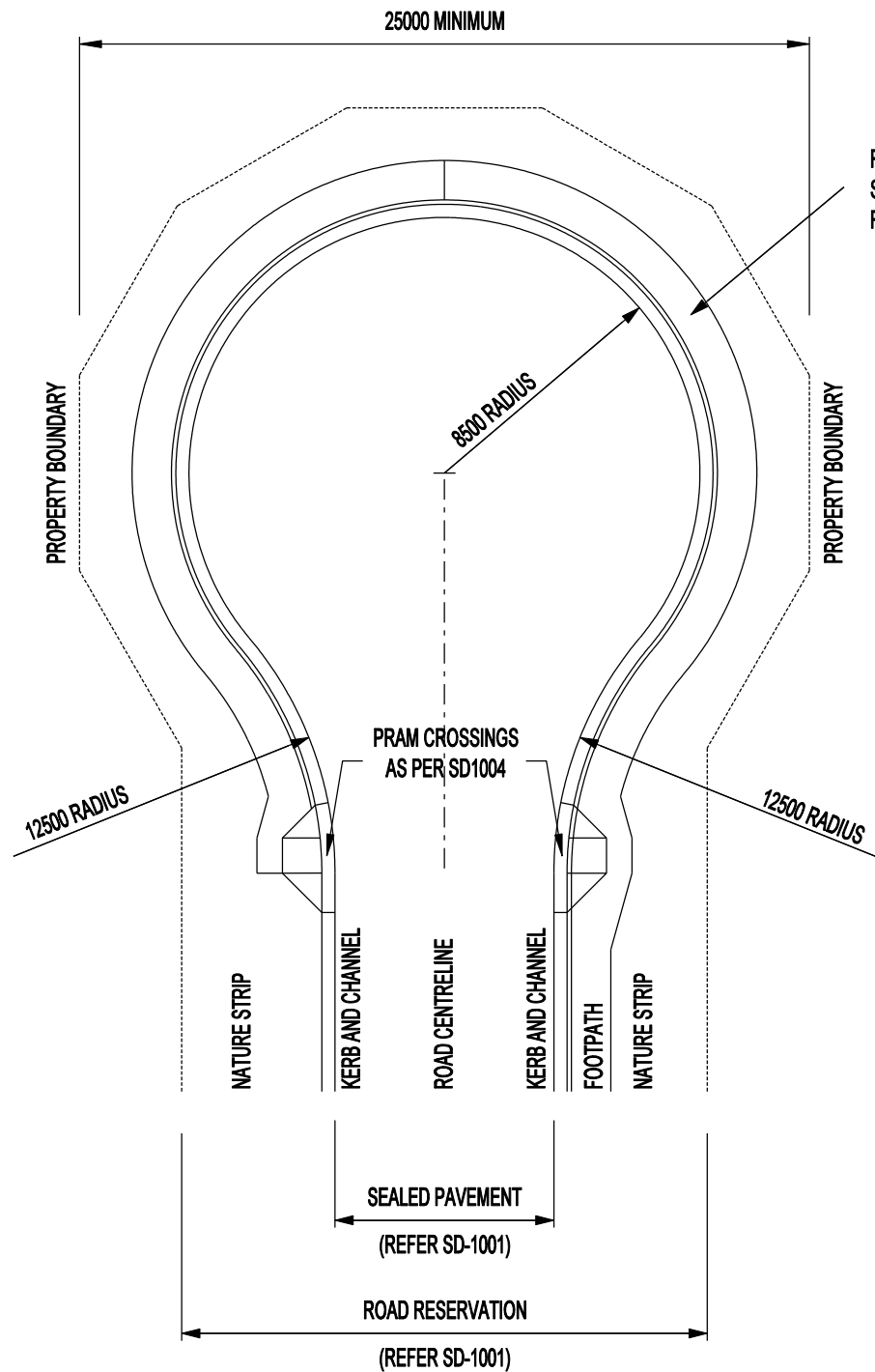
**INSTITUTE OF
PUBLIC WORKS
ENGINEERING
AUSTRALIA
TASMANIA DIVISION**

**DRAWING TITLE
TASMANIAN COUNCILS' SUBDIVISION STANDARD DRAWING
RURAL ROADS - GUIDE POSTS**

**SCALE
NOT TO SCALE**

**VERSION 2
1 JANUARY 2007**

**DRAWING NO.
SD-1010**



REFER TABLE 1 ON DRG. No. SD-1001 FOR FOOTPATH REQUIREMENTS.

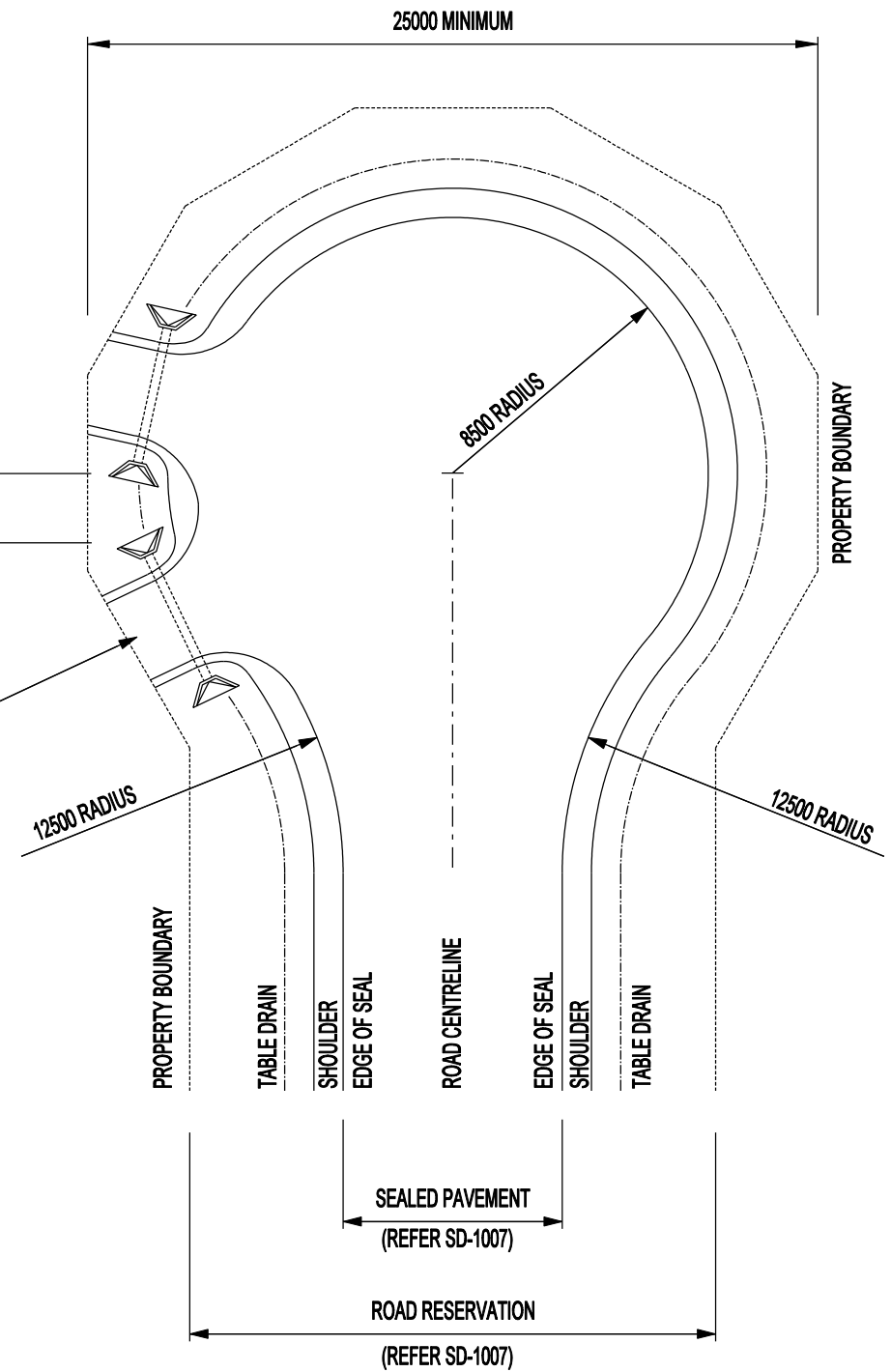
DRAIN TO BE PIPED BETWEEN ACCESSES WHERE LESS THAN 2000

REFER DRG. No SD-1009 FOR TYPICAL RURAL ACCESS DETAIL

NOTES

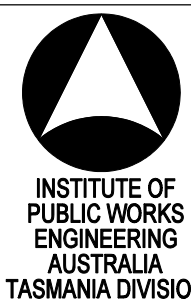
1. ALL DIMENSION IN MILLIMETRES (mm) UNLESS NOTED
2. CUL-DE-SAC HEADS ARE TO BE ASPHALTED

URBAN TYPE CUL-DE-SAC



RURAL TYPE CUL-DE-SAC

INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA TASMANIA DIVISION Inc. - 2003 DISCLAIMER.
 The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, or consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.



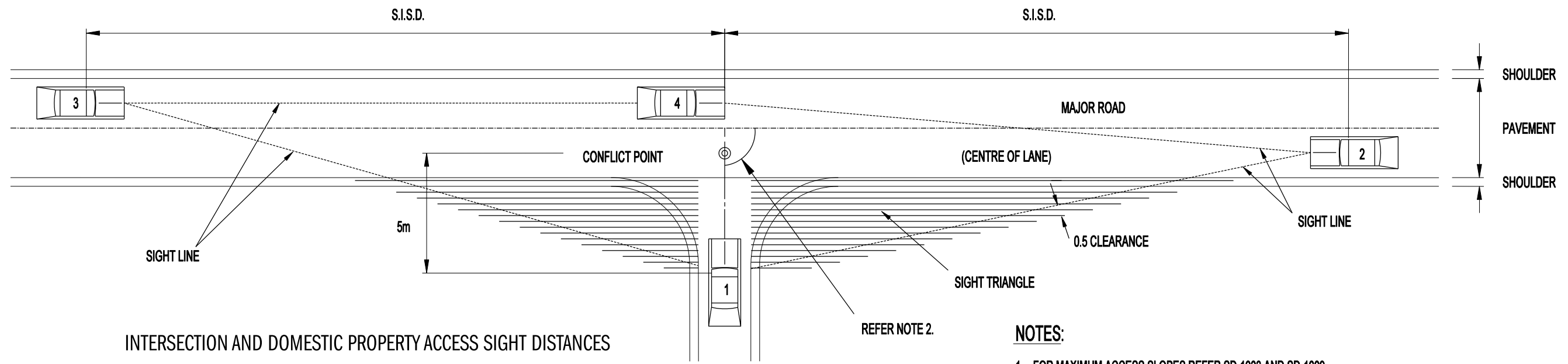
DRAWING TITLE
 TASMANIAN COUNCILS' SUBDIVISION STANDARD DRAWING
TYPICAL CUL-DE-SAC DETAILS

SCALE
 NOT TO SCALE

VERSION 2
 1 JANUARY 2007

DRAWING NO.
 SD-1011

SIGHT DISTANCES (2 LANE ROAD ONLY)



INTERSECTION AND DOMESTIC PROPERTY ACCESS SIGHT DISTANCES

DESIGN SPEED (km/h)	S.I.S.D. (m)		SIGHT DISTANCE DOMESTIC PROPERTY ACCESS
	RURAL $R_T=2.0\text{secs}$	URBAN $R_T=1.5\text{secs}$	
40	70	60	30
50	90	80	40
60	115	105	55
70	140	130	70
80	175	165	95
90	210	-	130
100	250	-	139

DEFINITIONS:

DESIGN SPEED = A SPEED FIXED FOR THE DESIGN AND CORRELATION OF THOSE GEOMETRIC FEATURES OF A CARRIAGEWAY THAT INFLUENCE VEHICLE OPERATION. DESIGN SPEED SHOULD NOT BE LESS THE SPEED AT OR BELOW WHICH 85% OF VEHICLES TRAVEL. (85th PERCENTILE)

S.I.S.D. = SAFE INTERSECTION SIGHT DISTANCE.
DISTANCE REQUIRED BY A DRIVER ON A MAJOR ROAD TO OBSERVE A VEHICLE MOVING FROM A MINOR ROAD INTO A COLLISION SITUATION AND TO DECELERATE AND STOP BEFORE REACHING THE CONFLICT POINT.

R_T = DRIVERS REACTION TIME

NOTES:

- FOR MAXIMUM ACCESS SLOPES REFER SD-1003 AND SD-1009.
- THE ANGLE OF INTERSECTION SHOULD BE BETWEEN 70° AND 90° TO THE MAJOR ROAD.
- REFER TO DIER - STANDARD BRIEF FOR PROFESSIONAL SERVICES - T3 - ROADS - APPENDIX T3.B.

SIGHT LINE REQUIREMENTS.

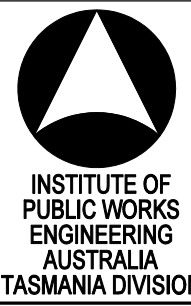
ALL SIGHT LINES (DRIVER TO OBJECT VEHICLE) ARE TO BE BETWEEN POINTS 1.2m ABOVE THE ROAD AND ACCESS SURFACE AT THE RESPECTIVE VEHICLE POSITIONS WITH A CLEARANCE TO ANY SIGHT OBSTRUCTION OF 0.5m TO THE SIDE AND BELOW, AND 2.0m ABOVE ALL SIGHT LINES.

THE SIGHT LINE REQUIREMENTS ARE TO BE MAINTAINED OVER THE FULL SIGHT TRIANGLES FOR VEHICLES AT ANY POINT BETWEEN POSITIONS 1, 2 AND 3 AND THE ACCESS JUNCTION.

- A DRIVER AT POSITION 1 MUST HAVE SIGHT LINES TO SEE CARS AT ANY POINT BETWEEN POSITION 2 AND POSITION 3.
- A DRIVER AT ANY POINT BETWEEN POSITION 3 AND THE ACCESS MUST HAVE SIGHT LINES TO SEE A CAR AT POSITION 4.
- A DRIVER AT POSITION 4 MUST HAVE SIGHT LINES TO SEE A CAR AT ANY POINT BETWEEN POSITION 2 AND THE ACCESS.

PLAN

INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA TASMANIA DIVISION Inc. - 2003 DISCLAIMER.
The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, or consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.



DRAWING TITLE
TASMANIAN COUNCILS' SUBDIVISION STANDARD DRAWING
**INTERSECTION AND DOMESTIC
ACCESS SIGHT DISTANCE REQUIREMENTS**

SCALE NOT TO SCALE	VERSION 2 1 JANUARY 2007	DRAWING NO.
		SD-1012