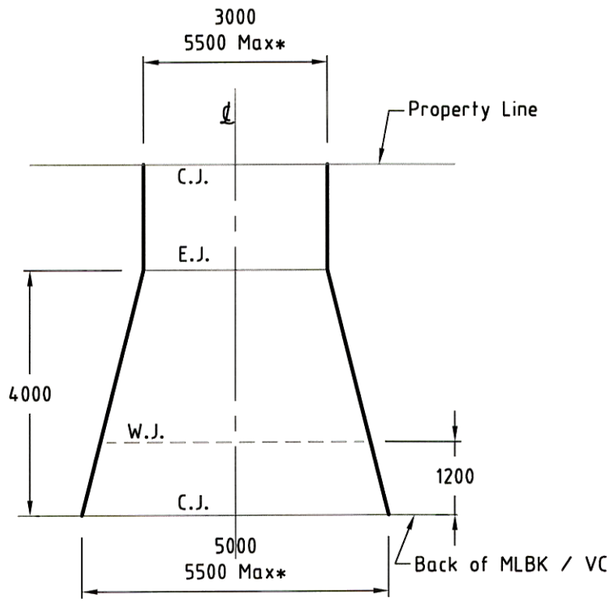
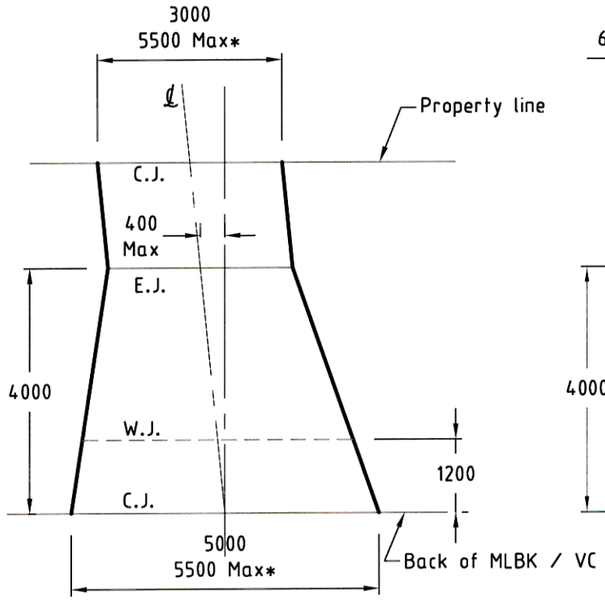
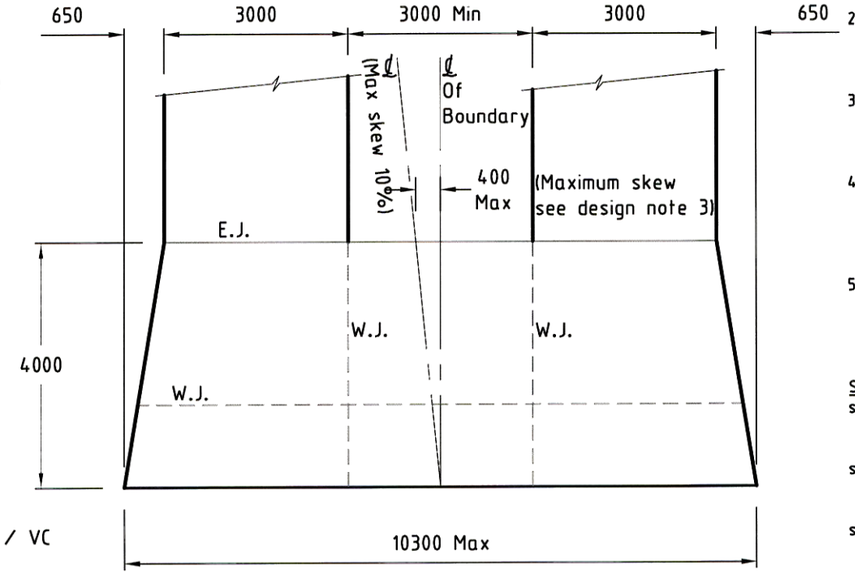
REFERENCE DRAWING ONLY



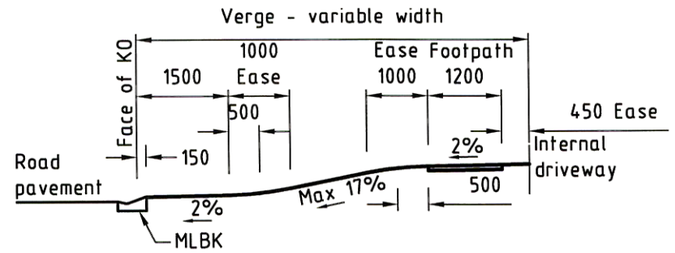
DRIVEWAY TYPE R
FOR USE WITH DEVELOPMENTS OF UP TO 3 RESIDENCES



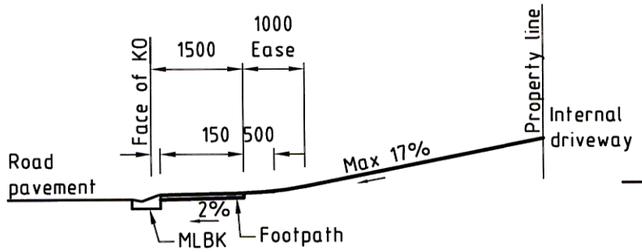
DRIVEWAY TYPE R - SKEWED FOR USE WITH
DEVELOPMENTS OF UP TO 3 RESIDENCES



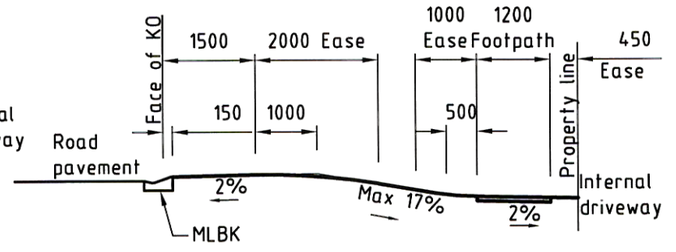
DRIVEWAY TYPE RD
FOR DOUBLE DRIVEWAY



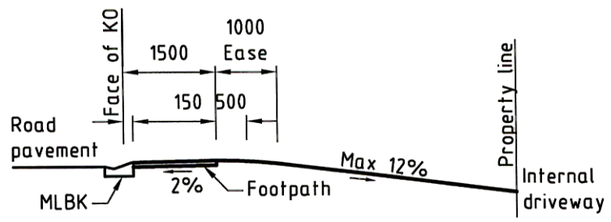
TYPE 1 - RISING DRIVEWAY WITH FOOTPATH AT PROPERTY LINE



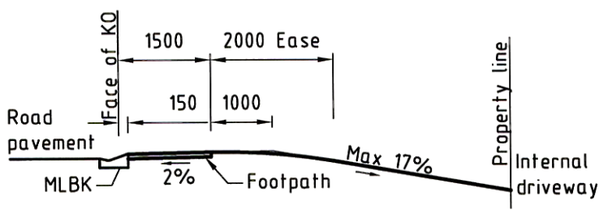
TYPE 2 - RISING DRIVEWAY WITH FOOTPATH AT KERB



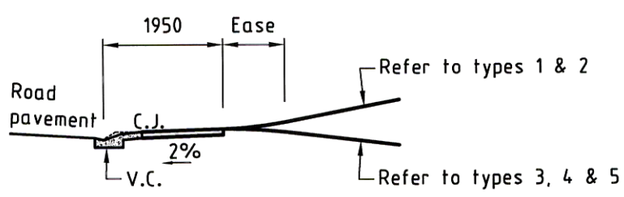
TYPE 3 - FALLING DRIVEWAY WITH FOOTPATH AT PROPERTY LINE



TYPE 4 - FALLING DRIVEWAY WITH FOOTPATH AT KERB

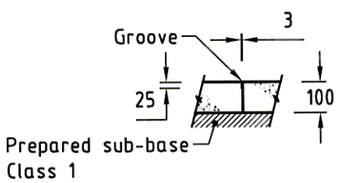


TYPE 5 - FALLING DRIVEWAY WITH FOOTPATH AT KERB

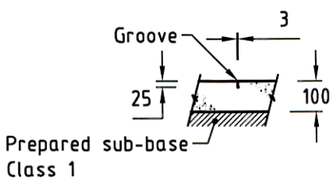


TYPE 6 - TYPICAL DETAIL FOR VEHICULAR CROSSING (V.C)
RESIDENTIAL DRIVEWAYS - LONGITUDINAL SECTIONS

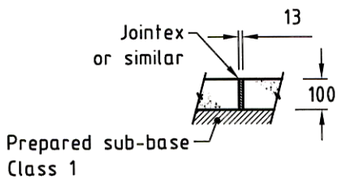
LONGITUDINAL SECTIONS



CONSTRUCTION JOINT (C.J.)



WEAKENED PLANE JOINT (W.J.)



EXPANSION JOINT (E.J.)

JOINT DETAILS

* The maximum width at the property boundary and kerb line will only be supported where the driveway is serving a double or larger garage, or multiple dwellings; in all other cases the maximum is to be as per the standard driveway type R

DESIGN NOTES

1. Construction joints (C.J.) to be provided against all existing concrete paving except where (E.J). is specified.
2. Existing footpaths of less than 100mm thk across proposed driveways are to be removed and replaced with standard driveway section.
3. Driveways to be constructed normal to kerbline where ever possible. where necessary, a maximum skew of 1:10 is permitted.
4. Driveways not to be constructed closer than 1200 to any engineering service such as sumps and 1500 to ActewAGL substations, power poles and street lights.
5. This is applicable for single residences or up to 3 residences, for accesses to more than 3 residences, see drawing no. DS5-02

SPECIFICATION

s1. All concrete shall be grade 32. (F'c = 32 MPa). Aggregate size to be 20 maximum.
s2. Residential driveways shall be un-reinforced concrete of 100 mm minimum thickness.
s3. All new driveways shall be constructed on granular sub-base class 1 of 75mm minimum thickness and compacted to 95% of modified maximum dry density (MMDD). Subgrades shall be compacted to 90% MMDD.
s4. Expansion joints (E.J.) to be sealed with 13mm self expanding cork joint sealer for the full depth and to be located 4000 from vehicular crossing or modified layback kerbs or at property boundary where verge < 4000.
s5. Weakened plane joints (W.J.) to be 3mm wide to 1/4 depth for extruded work and to the full depth of formed sections. (W.J's) to be located at 3000 max.
s6. Broomed finish to be applied to all concrete surfaces.
s7. All concrete to be cured continuously for 3 days after placing.

ACT GOVERNMENT

TRANSPORT AND INFRASTRUCTURE DIVISION

DESIGN STANDARD
URBAN INFRASTRUCTURE

DRAFTING	DATE
Paul Dowling / Robert Vanderkley	
APPROVED	DATE 16/10/09

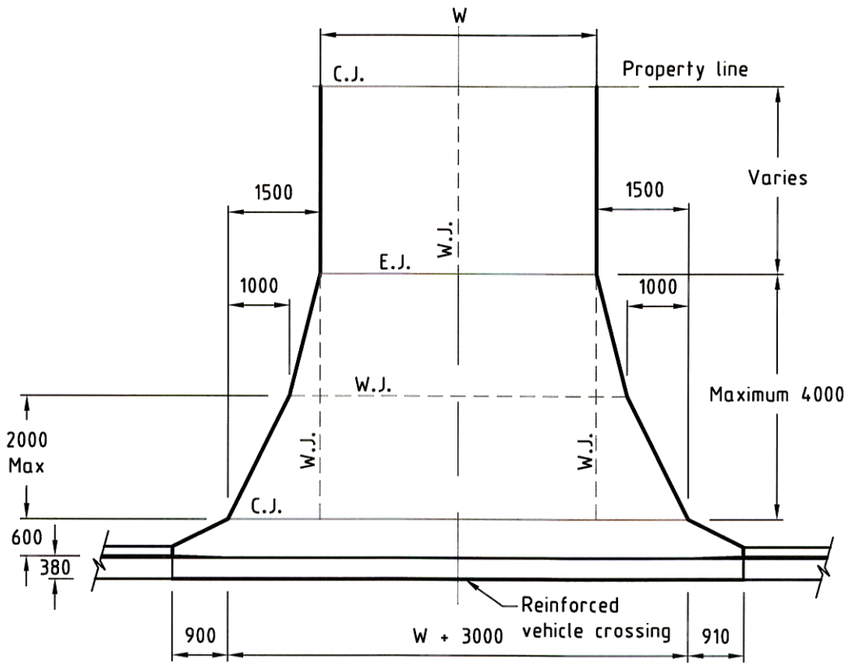
Standard Drawing

DOMESTIC DRIVEWAYS

DOCUMENT NUMBER	SHEET No	REVISION
DS5-01	1	1

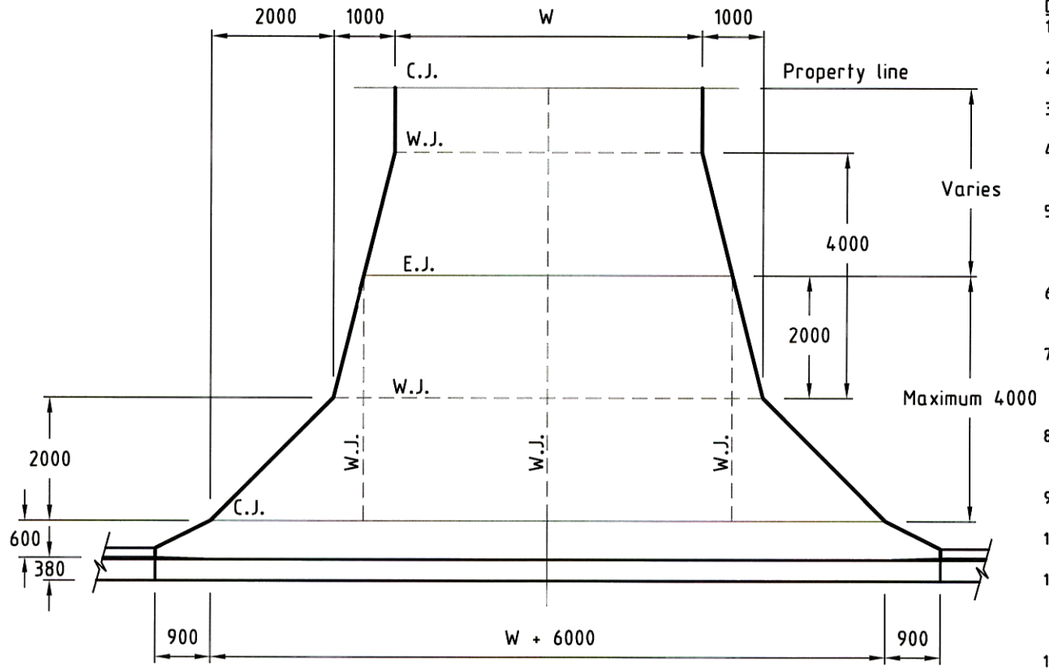
NOT TO BE USED FOR CONSTRUCTION

-1 0 1 2 3 4 5m



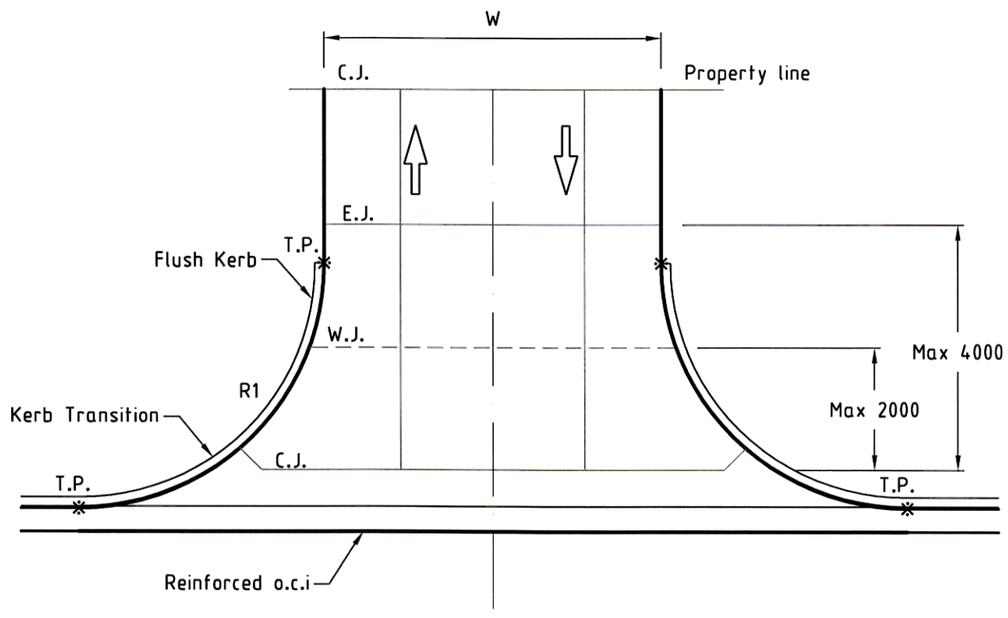
DRIVEWAY TYPE HD1

FOR USE WITH DEVELOPEMENTS OF FOUR TO EIGHT TOWNHOUSES / UNITS OR CARPARKING AREAS



DRIVEWAY TYPE HD2

FOR USE WITH DEVELOPEMENTS OF MORE THAN EIGHT TOWNHOUSES / UNITS OR COMMERCIAL PROPERTIES

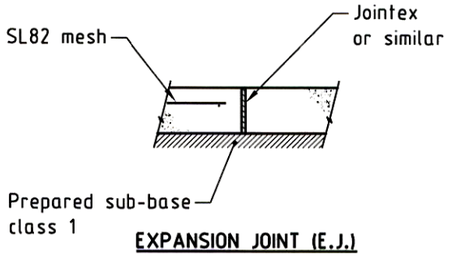


TYPE HDR

TRANSITION TO FLUSH KERB CONCRETE PAVEMENT

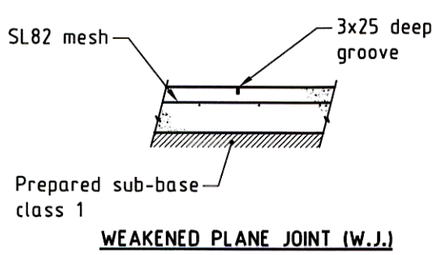
VEHICLE TYPE	SMALL RIGID VEHICLE (S.R.V.)		HEAVY RIGID VEHICLE (H.R.V.)		ARTICULATED VEHICLE (A.V.)	
DRIVEWAY TYPE	HD1	HDR	HD2	HDR	HD2	HDR
W	4500	3000	5000	5500	7200	9000
R1	-	4000	-	9000	-	9000
MAX RATE OF CHANGE			1.5%/5.5m	1.5%/5.5m	1%/5.5m	1%/5.5m
MAX SLOPE	17%	17%	10%	10%	10%	10%

DRIVEWAY DIMENSIONS



EXPANSION JOINT (E.J.)

CONSTRUCTION JOINT (C.J.)



WEAKENED PLANE JOINT (W.J.)

JOINT DETAILS

DESIGN NOTES

1. Expansion joints (E.J.) shall be located maximum 4000 from vehicular crossings and at 15000 elsewhere.
2. Weakened plane joints (W.J.) shall be located at 3000 maximum centres on industrial driveways.
3. Construction joints (C.J.) to be provided against all existing concrete paving except where (E.J.) is specified.
4. Existing footpaths of less than 150 thickness across proposed driveways are to be removed and replaced with standard driveway section.
5. Heavy duty driveways to be graded longitudinally at a max. Of 10% and matched to footpath levels and grades where applicable. Allowance for future footpath where none existing.
6. Driveways to be constructed normal to the kerb line wherever possible. Where necessary, a maximum skew of 1:10 is possible.
7. Driveways not to be constructed closer than 1200 to any engineering service such as sumps, and 1500 to any ACTEWAGL sub-stations, power poles and street lights.
8. The entry must always be on the left hand side of the exit. Where entry and exit are separated, they should be signposted accordingly.
9. The type of vehicle chosen for design should represent the predominant use.
10. The typical dimensions allow for simultaneous in / out movement of the chosen vehicle.
11. These dimensions are provided as a general guide. It may be possible using vehicle turning templates as per A.S. 2890.2 to design narrower driveways to suit a particular site.
12. A standard template should be used to demonstrate that the largest vehicle likely to use the site can negotiate the crossing.

SPECIFICATION

Must comply with TAMS standard specification
- Major concrete works
- Flexible pavement construction

S1. All concrete shall be grade 32 (Fc =32 MPa). Aggregate size to be 20 maximum.
S2. Industrial driveways shall be 150 thk and reinforced with SL82 mesh at 50 top cover.
S3. All new driveways shall be constructed on granular sub-base class 1 of 75 minimum thickness and compacted to 95% of modified maximum dry density (MMDD). Subgrades shall be compacted to 90% MMDD.
S4. Broomed finish to be applied to all concrete surfaces.
S5. All concrete to be cured continuously for 3 days after placing.

-1 0 1 2 3 4 5m

NOT TO BE USED FOR CONSTRUCTION

ACT GOVERNMENT

TRANSPORT AND INFRASTRUCTURE DIVISION

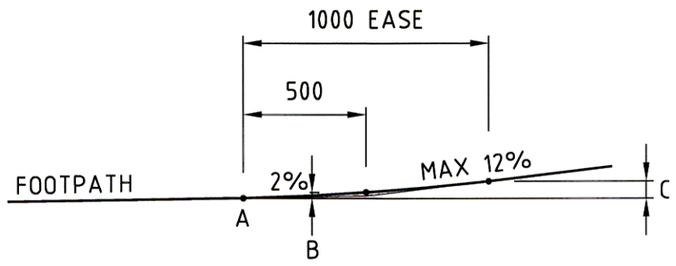
DESIGN STANDARD URBAN INFRASTRUCTURE

DRAFTING	DATE
Paul Dowling / Robert Vanderkley	
APPROVED	DATE
Tony Su	16/10/09

Standard Drawing

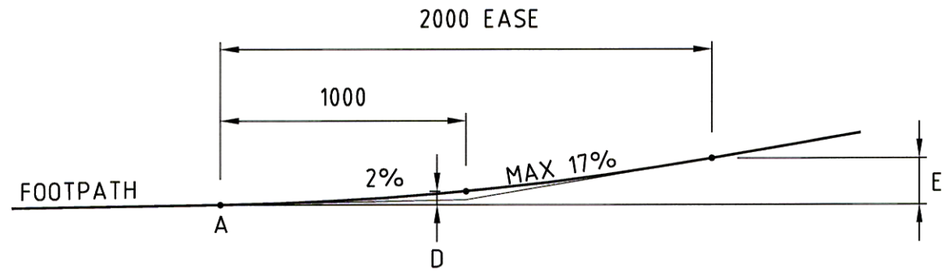
HEAVY DUTY DRIVEWAYS

DOCUMENT NUMBER	SHEET No	REVISION
DS5-02	2	1



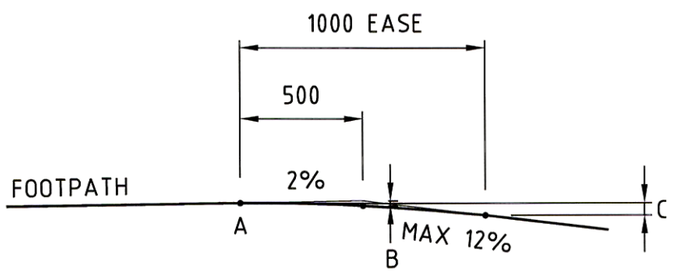
1 METRE EASE
RISING

		SLOPE OF DRIVEWAY								
		4%	5%	6%	7%	8%	9%	10%	11%	12%
DIMENSION	A	00	00	00	00	00	00	00	00	00
	B	10	10	15	15	15	20	20	20	25
	C	30	35	40	45	50	55	60	65	70



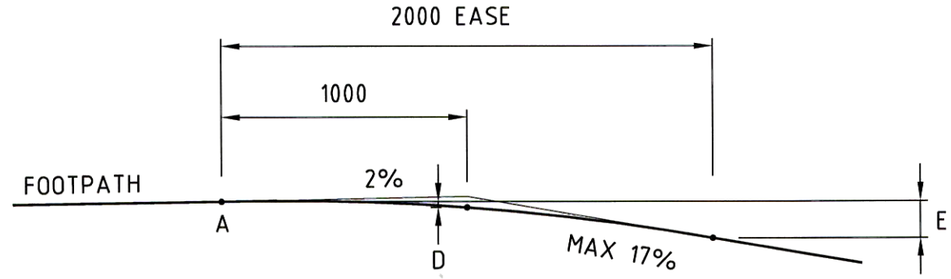
2 METRE EASE
RISING

		SLOPE OF DRIVEWAY					
		12%	13%	14%	15%	16%	17%
DIMENSION	A	00	00	00	00	00	00
	D	45	50	50	50	55	55
	E	140	150	160	170	180	190



1 METRE EASE
FALLING

		SLOPE OF DRIVEWAY								
		4%	5%	6%	7%	8%	9%	10%	11%	12%
DIMENSION	A	00	00	00	00	00	00	00	00	00
	B	10	10	15	15	15	20	20	20	25
	C	30	35	40	45	50	55	60	65	70



2 METRE EASE
FALLING

		SLOPE OF DRIVEWAY					
		12%	13%	14%	15%	16%	17%
DIMENSION	A	00	00	00	00	00	00
	D	45	50	50	50	55	55
	E	140	150	160	170	180	190

ACT GOVERNMENT

TRANSPORT AND INFRASTRUCTURE DIVISION

DESIGN STANDARD
URBAN INFRASTRUCTURE

DRAFTING	DATE
Paul Dowling / Robert Vanderkley	
APPROVED	DATE
Tony Sh	16/10/09

Standard Drawing
DRIVEWAY LEVELS
FOR 1 AND 2
METRE
VERTICAL CURVES

DOCUMENT NUMBER	SHEET No	REVISION
DS5-03	3	1