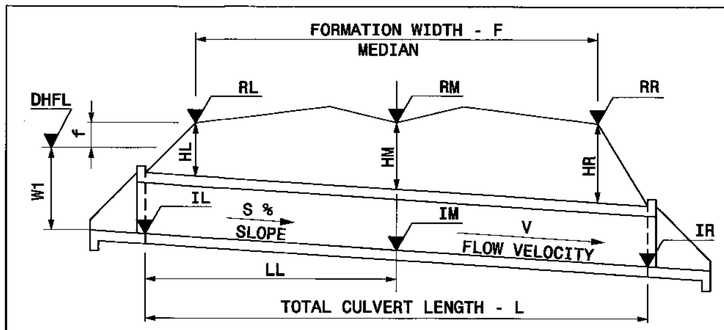
KEY PLAN WITH ROAD SHOWING
CULVERT POSITIONS

KEY PLAN

KEY TO CULVERT TYPES

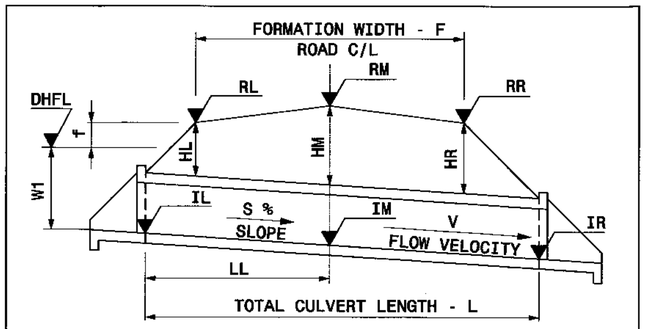
PC - PIPE CULVERT (UNIT LENGTHS 2,44m)
BC - BOX CULVERT (UNIT LENGTHS 1,22m)
IBC - IN-SITU BOX CULVERT
APC - ARMCO PIPE CULVERT
MH - MANHOLE
SI - SIDE INLET
SCI - SPECIAL CULVERT INLET
FA - FARM ACCESS
SDW - SIDE DRAIN WING WALL
DI - DROP INLET



TYPICAL LONGITUDINAL SECTION OF CULVERT UNDER DOUBLE CARRIAGEWAY ROAD

SCALE: SCHEMATIC

(SHOW APPROPRIATE ROAD CROSS SECTION OF SINGLE /DOUBLE CARRIAGEWAY ON SCHEDULE)



TYPICAL LONGITUDINAL SECTION OF CULVERT UNDER SINGLE CARRIAGEWAY ROAD

SCALE: SCHEMATIC

DRAINAGE SCHEDULE

	ITEM NUMBER																	
CULVERT DESCRIPTION	ROAD KILOMETRE DISTANCE																	
	TYPE OF CULVERT																	
	SPAN/DIA (mm)																	
	HEIGHT (mm)																	
	PIPE & BEDDING CLASS																	
	SKEW ANGLE ° (Deg)																	
	WING WALL REFERENCE (IF APPLICABLE)																	
HYDROLOGICAL DATA	CATCHMENT AREA CA (ha)																	
	TIME OF CONCENTRATION Tc (minutes)																	
	RAINFALL INTENSITY I (mm/h)																	
	CATCHMENT DISCHARGE AT INLET (m^3/s)																	
	WATER HEAD WH (m)																	
	DESIGN HIGH FLOOD LEVEL DHFL (m)																	
	FREE BOARD f (m)																	
	FLOW VELOCITY v (m/s)																	
ROAD DATA	ROAD LEVEL - LEFT SHOULDER RL (m)																	
	ROAD LEVEL - ROAD C/L (MEDIAN) RM (m)																	
	ROAD LEVEL - RIGHT SHOULDER RR (m)																	
	ROAD FORMATION WIDTH F (m)																	
CULVERT DATA	FLOOR SLOPE S (%)																	
	INVERT LEVEL - LEFT IL (m)																	
	INVERT LEVEL - ROAD C/L (MEDIAN) IM (m)																	
	INVERT LEVEL - RIGHT IR (m)																	
	FILL HEIGHT - LEFT HL (m)																	
	FILL HEIGHT - ROAD C/L (MEDIAN) HM (m)																	
	FILL HEIGHT - RIGHT HR (m)																	
	LENGTH - LEFT TO ROAD C/L (MEDIAN) (m)																	
	TOTAL LENGTH - INLET TO OUTLET L (m)																	
	NUMBER OF UNITS NUMBER																	

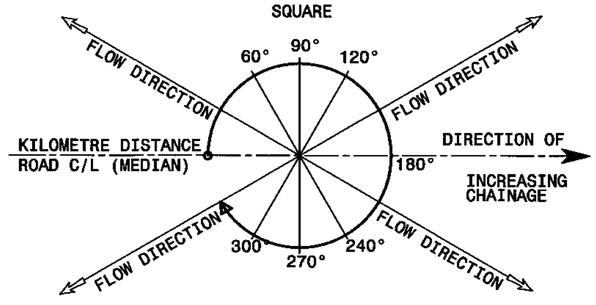


DIAGRAM SHOWING SLOPE & SKEW-ANGLE CONVENTION

No.	DATE	REVISION	APPROVED
V1	SEPT 2014	ORIGINAL VERSION	

SANRAL TYPICAL DRAWINGS

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APPROVED
DATE: 2015/06/22

TYPICAL DRAWINGS - DRAINAGE

KEY PLAN AND DRAINAGE SCHEDULE NEW ROADS

SANRAL DOC. No. (PDF) 1693713
SANRAL DOC. No. (DWG) 1797635
SANRAL DRAWING No. TD-D-DS-1001-V1