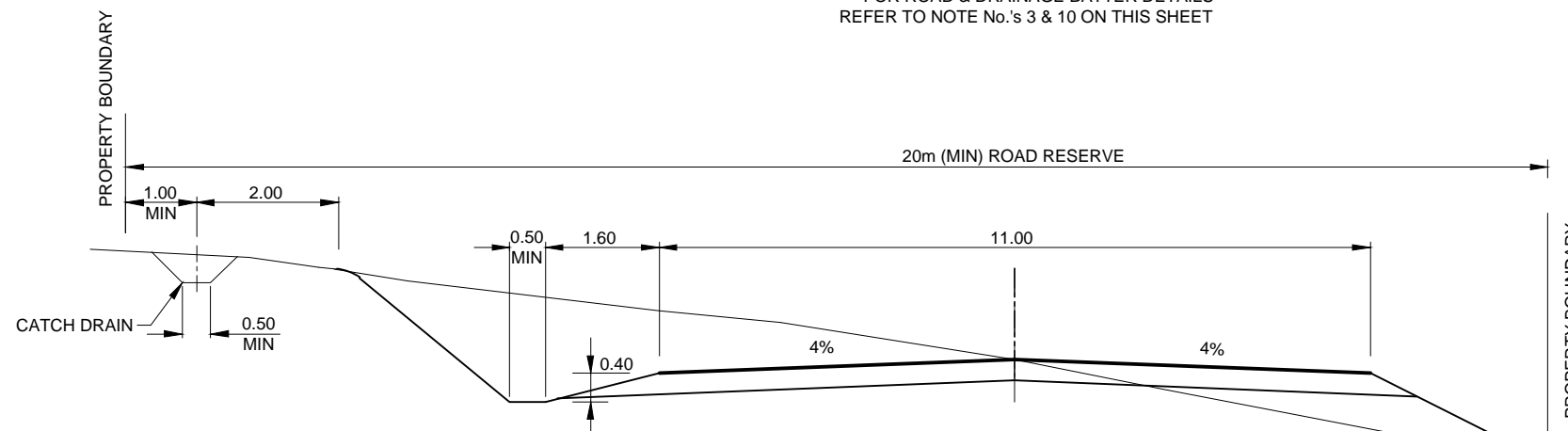
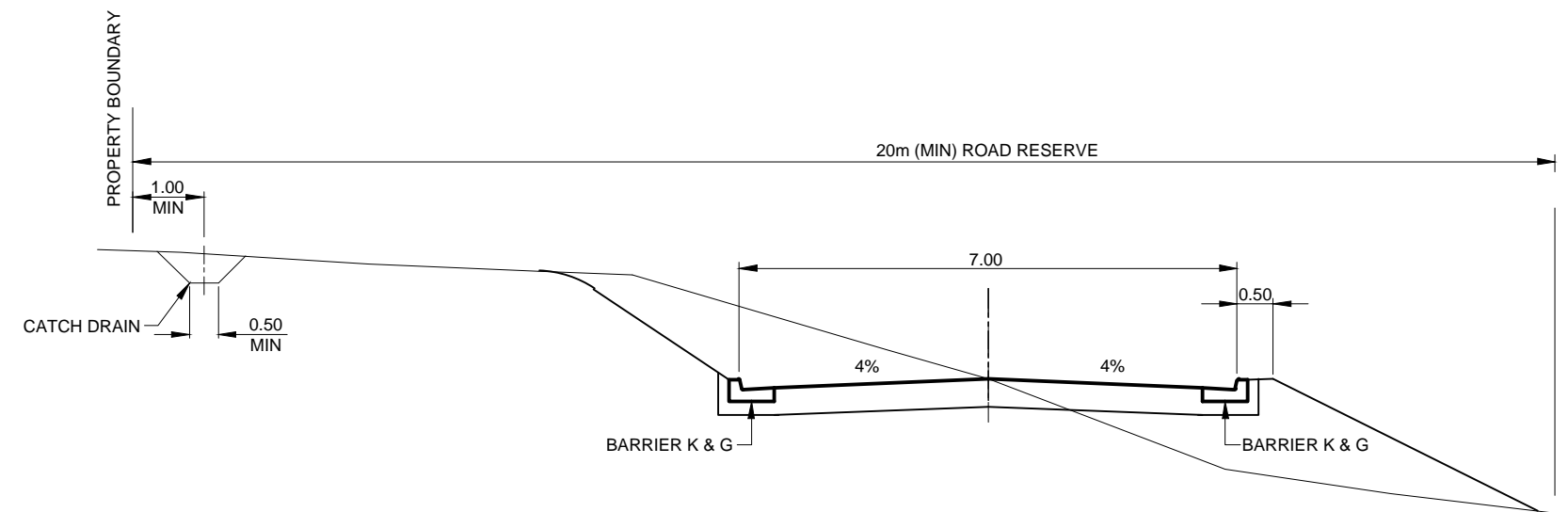


CLASS 'D' FORMATION
FOR BETWEEN 1000vpd & 2000vpd

FOR ROAD & DRAINAGE BATTER DETAILS
REFER TO NOTE No.'s 3 & 10 ON THIS SHEET



ARTERIAL FORMATION
FOR GREATER THAN 2000vpd



CLASS 'C' (TYPICAL) WITH KERB AND GUTTER
FOR BETWEEN 250vpd & 1000vpd
SIMILAR FOR OTHER CLASS FORMATIONS

RURAL ROAD CLASS	CLASS vpd RANGE	WIDTH OF SEAL	LINE MARKING	UNSEALED SHOULDER WIDTH (EACH SIDE)	NOMINAL WIDTH OF FORMATION
CLASS 'A'	<150	4.0	NONE	2.3 Gravel	8.6
CLASS 'B'	150-250	6.0	NONE	1.3 Gravel	8.6
CLASS 'C'	250-1000	8.6	NONE	NIL	8.6
CLASS 'D'	1000-2000	9.6	CENTRE + EDGE AT 3.5m	NIL	9.6
ARTERIAL	>2000	11.0	CENTRE + EDGE AT 3.5m + RAISED REFLECTOR PAVEMENT MARKERS	NIL	11.0

CROSS SECTION ELEMENTS
MINIMUM STANDARDS (RURAL ROADS)

NOTES

- ASSUME TRAFFIC GENERATION RATE OF 6.5 VEHICLES / DAY / ALLOTMENT IN THE ABSENCE OF EXISTING TRAFFIC COUNTS. IT MAY BE NECESSARY TO INCREASE FORMATION WIDTH TO ULTIMATE LAND USE EXPECTATIONS WHERE STAGED UPGRADES ARE NOT FEASIBLE.
- PAVEMENT CROSSFALLS ON STRAIGHTS TO BE:
 - 4% BITUMEN SEALED PAVEMENTS.
 - 4% GRAVEL PAVEMENTS AND SHOULDERS.
- CUT AND FILL SLOPES FOR ROAD & DRAINAGE BATTERS ARE TO BE IN ACCORDANCE WITH TWEED SHIRE COUNCIL'S DEVELOPMENT DESIGN SPECIFICATION - D1 - SECTION D1.25.
- IF PAVEMENT DEPTH IS GREATER THAN 350mm, THE TABLE DRAIN SHALL BE DEEPENED AND WIDENED TO ENSURE IT IS 50mm DEEPER THAN THE UNDERSIDE OF PAVEMENT.
- KERB & GUTTER & FULL SHOULDER SEAL SHALL BE PROVIDED IF LONGITUDINAL GRADES EXCEED 8% (OR WHERE SOIL TYPES ARE VULNERABLE TO EROSION).
- TABLE DRAINS SHALL BE CONCRETE LINED WHERE LONGITUDINAL GRADES ARE LESS THAN 0.5% OR GREATER THAN 5%.
- CATCH DRAINS SHALL BE CONCRETE LINED WHERE LONGITUDINAL GRADES ARE LESS THAN 0.5% OR GREATER THAN 5%.
- SHOULDER WIDTHS SHALL BE INCREASED BY 1.5m WHERE A ROAD SAFETY BARRIER IS TO BE INSTALLED. THE ROAD SHOULDER IS TO BE SEALED AND A 100mm HIGH AC BERM CONSTRUCTED TO INTERCEPT ROAD RUNOFF. RUNOFF IS TO BE CONVEYED BY FLUME DRAINS TO NATURAL SURFACE.
- A 6m FORMATION WITH FULL WIDTH GRAVEL PAVEMENT OF MINIMUM 150mm ROADBASE DEPTH, IS REQUIRED WHERE A DEVELOPMENT (OTHER THAN A SUBDIVISION) GENERATING LESS THAN 75vpd IS PROPOSED ON AN EXISTING UNSEALED ROAD.
- NOTWITHSTANDING THE CUT AND BATTER SLOPE LIMITS DEFINED IN TWEED SHIRE COUNCIL'S DEVELOPMENT DESIGN SPECIFICATION D1 - ROAD DESIGN - TABLE D1.12 & D1.13 RESPECTIVELY, BATTER SLOPE LENGTH, BERM DRAIN LOCATIONS AND GRADIENT RELATIONSHIPS ARE NOT TO EXCEED THOSE SET IN NSW GOVERNMENT LANDCOM - MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION 2004.
- FOR PAVEMENT THICKNESS SEE TWEED SHIRE COUNCIL'S DEVELOPMENT DESIGN SPECIFICATION D2 - PAVEMENT DESIGN - TABLE D2.2 & D2.3. 12. DESIGN PLANS TO SHOW PAVEMENT DEPTH AND ESTIMATED A.D.T.

SCALE: A1 SHEET 1:50, A3 SHEET 1:100
0 0.5 1 2 3 4 5 m

ISSUE	AMENDMENT DETAILS	INITIALS	DATE
C	PLAN FORM, TABLE & NOTES AMENDED	G.P.C.	08.2014
B	DRAWING ADOPTED FOR ISSUE TO PUBLIC	R.A.E.	06.2004
A	ORIGINAL ISSUE	R.A.E.	04.2004



DESIGN UNIT
COUNCIL OFFICES
TUMBULGUM ROAD,
MURWILLUMBAH,
NEW SOUTH WALES 2484
PHONE 02 6670 2400
FAX 02 6672 7513
WEBSITE www.tweed.nsw.gov.au

DESIGN ENGINEER	<i>[Signature]</i> DATE 28.08.14
DESIGN MANAGER	<i>[Signature]</i> DATE 28.08.14
DRAWN	ENGINEERING & OPERATIONS DESIGN UNIT
SCALE	1:100 (A3)

PROJECT:	ROAD WORKS STANDARDS	DRAWING NUMBER:	S.D.010
PLAN TITLE:	RURAL ROAD CROSS SECTIONS (SHEET 2 OF 2 SHEETS)		AUG 2014

ACAD FILE No G:_AAA TSC STANDARD DRAWINGS\000 \ROAD WORKS STANDARD\S.D.010 (Aug-14 Rev C)