## 1 **NOTES** 1. TABLE DRAINS STEEPER THAN 5% SHOULD HAVE EROSION PROTECTION 1 1.60 MIN MEASURES INSTALLED 2. CUT BATTER SLOPES MAY BE VARIED ON SITE TO ENSURE LONG TERM NATURAL SURFACE STABILITY OF BATTERS 3. UNSEALED ROADS SHALL BE DESIGNED USING PARAMETERS SET OUT IN PROPERTY NORTHERN RIVERS LOCAL GOVERNMENT DEVELOPMENT & DESIGN MANUAL 3.0% TO 5.0% 3.0% TO 5.0% 4. FOR PAVEMENT DESIGN REQUIREMENTS REFER TO NORTHERN RIVERS LOCAL GOVERNMENT DEVELOPMENT & DESIGN MANUAL 5. ALL DIMENSIONS IN METRES UNLESS SHOWN OTHERWISE. TABLE DRAIN WATER SURFACE LEVEL FOR A 1 in 5 YEAR ARI 6. SUBSOIL DRAINS MAY BE REQUIRED. - REFER TO DWG. R-09 FOR DETAILS. 2.0m BERM FOR SERVICES SHALL BE BELOW SUBGRADE LEVEL WHEN REQUIRED RURAL OR RURAL-RESIDENTIAL ROAD (CROWNED) - 'HARDIES' SLIMDRAIN OR APPROVED EQUAL 1.200 DISH DRAIN 1 2.00 2.00 MAY BE REDUCED TO 1.00 NATURAL SURFACE WITH APPROVAL **PAVEMENT** 5.0% 'HARDIES' F.R.C. PIPE 3.0% TO 5.0%— \_3.0% TO 5.0% MASS CONCRETE ABOVE OR APPROVED EQUAL HALF PIPE SLOTTED FOR SLIMDRAIN SIZE AS REQUIRED SUBSURFACE DRAINAGE IF REQUIRED (TYPICAL) PIPE BEDDING MATERIAL UP TO TYPE 1 HALF PIPE RURAL-RESIDENTIAL ROAD WITH KERB & GUTTER STD. 900 DISH DRAIN 2.00 **PAVEMENT** MAY BE REDUCED TO 1.00 NATURAL SURFACE WITH APPROVAL STD. GRATED INLET PIT EDGE RESTRAINT ER2 SPACED AS REQUIRED GRATE TO BE ORIENTATED 5.0% 3.0% TO 5.0% 3.0% TO 5.0% ACROSS THE LINE OF TRAFFIC R.C.P. OR F.R.C. PIPE SUBSURFACE DRAINAGE SIZE AS REQUIRED FOR CENTRAL TREATMENT SEE IF REQUIRED (TYPICAL) IN STANDARD TRENCH **ENLARGEMENTS THIS SHEET** TYPE 2 **LEGEND** RURAL-RESIDENTIAL ROAD (DISHED) CENTRAL DRAINAGE TREATMENTS VARIES - REFER SPEC. D1 NOT TO SCALE STANDARD DRAWINGS ROAD/STREET TYPICAL CROSS SECTIONS STANDARD NORTHERN RIVERS **RURAL & RURAL RESIDENTIAL ROADS** DRAWING R-13 TABLE DRAIN WATER SURFACE LEVEL CLARIFIED LOCAL GOVERNMENT 7/7/10 ORIGINAL ISSUE 3/10/06

**REVISIONS** 

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