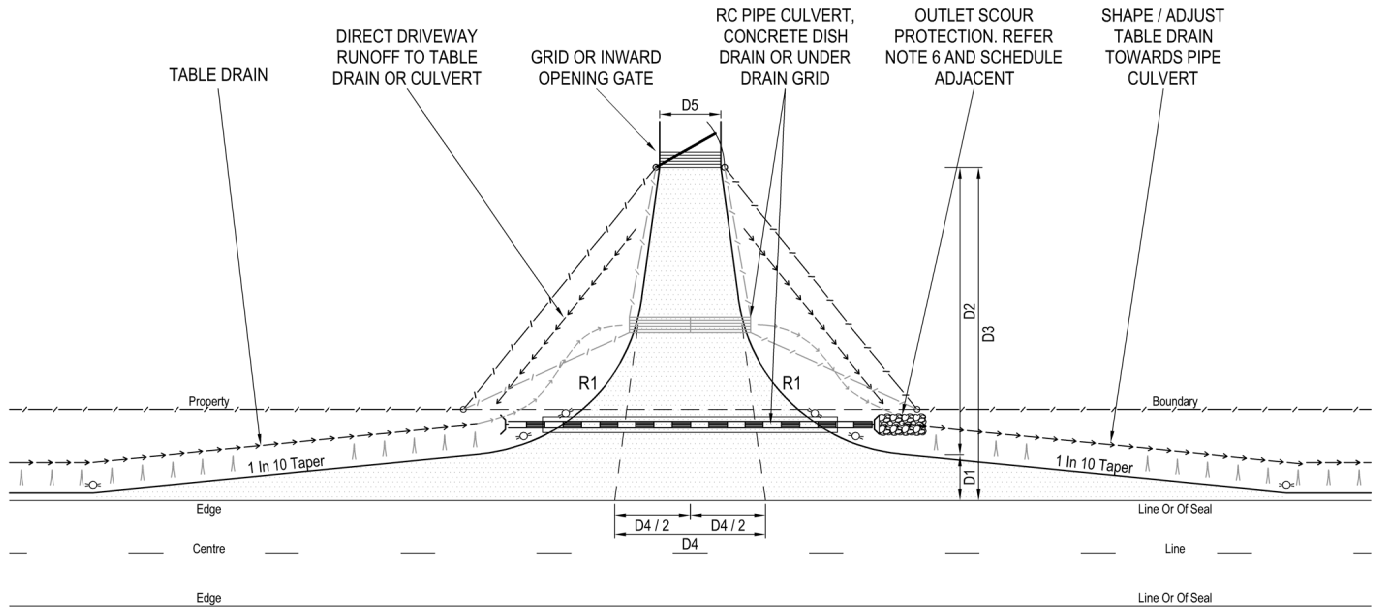


PLAN - TYPICAL DRIVEWAY WITH INDENT

SCHEDULE - SAFE INTERSECTION SIGHT DISTANCES AND CORRECTIONS AND CLEAR ZONES

DESIGN SPEED (km/h)	SISD (m)	CORRECTION (m)						CLEAR ZONE WIDTH (m)
		UPGRADE			DOWNGRADE			
		4%	8%	12%	4%	8%	12%	
60	105	-	-5	-10	-	+5	+10	2.5
70	130	-	-10	-10	+5	+10	+15	3.0
80	160	-5	-10	-15	+5	+10	+25	4.0
90	190	-10	-15	-20	+10	+20	+30	5.0
100	225	-10	-20	-25	+10	+25	+45	6.0

SCHEDULE - DRIVEWAY DIMENSIONS

	AADT > 2000 (vpd)	AADT 2000 < 1000 (vpd)	AADT < 1000 (vpd)
D1	3.0	1.5	-
D2	19.0	13.5	-
D3	22.0	15.0	6.0
D4	10.0	10.0	5.0
D5	4.0	4.0	3.0 #
R1	12.0	10.0	-

- Minimum Width At Property Boundary

SCHEDULE - OUTLET SCOUR PROTECTION

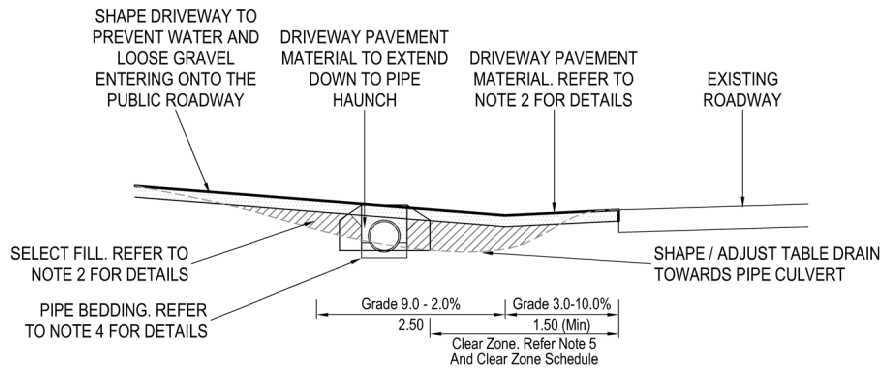
PIPE SIZE (mm)	PIPE GRADE %	OUTLET ROCK Ø (mm)	LENGTH (m)	WIDTH (m)
375	0.5 - 2.0	100	3.5	2.0
	2.0 - 3.0	150	4.0	2.0
	3.0 - 4.0	200	4.5	2.5
	4.0 - 5.0	200	5.0	2.5
	> 5.0	Detailed Design Required *		
450	0.5 - 1.0	100	4.0	2.0
	1.0 - 2.0	150	4.5	2.5
	2.0 - 3.0	200	5.0	2.5
	3.0 - 4.0	250	5.5	3.0
	4.0 - 5.0	250	6.0	3.0
	> 5.0	Detailed Design Required *		
525	0.5 - 1.0	150	4.5	2.5
	1.0 - 2.0	200	5.0	2.5
	2.0 - 3.0	250	5.5	3.0
	3.0 - 4.0	250	6.0	3.0
	4.0 - 5.0	300	6.5	3.5
	> 5.0	Detailed Design Required *		
600	0.5 - 1.0	200	5.0	2.5
	1.0 - 2.0	200	5.5	3.0
	2.0 - 3.0	250	6.0	3.0
	3.0 - 4.0	300	6.5	3.5
	4.0 - 5.0	300	7.0	3.5
	> 5.0	Detailed Design Required *		

* - Design Required Based On Flow And Velocity

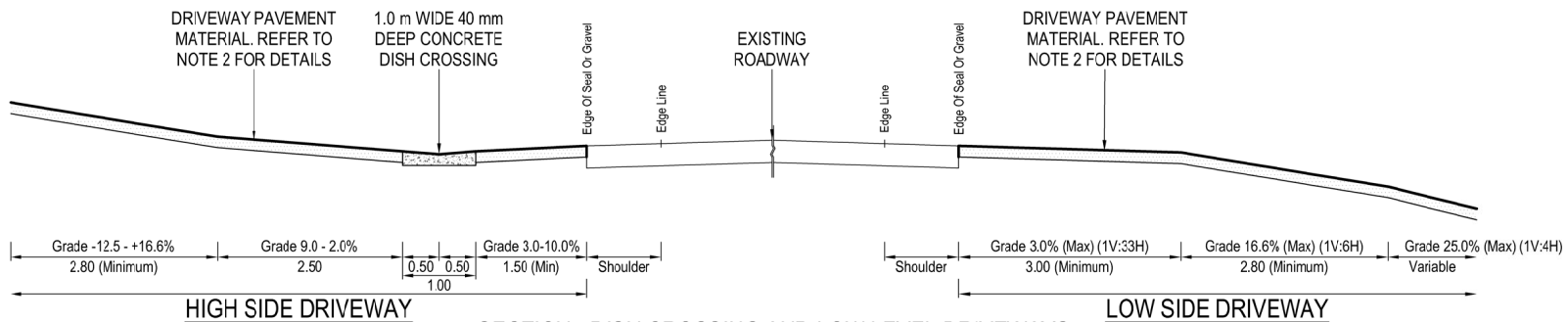
LEGEND

- Driveway pavement material. Refer to note 2 for details
- Guidepost

1. All driveways abutting sealed roads shall be sealed from the edge of the existing roadway seal to the property boundary (< 1000 vpd) or the indented gate / grid (> 1000 vpd). All driveways > 15% grade shall be sealed. Sealing may consist of hot spray, cold emulsion, asphaltic concrete or jet sprayed. Concrete driveways do not require sealing
2. Driveway pavement material (DPM) shall consist of a minimum 150 mm compacted thickness of DGB20 gravel, or similar, compacted to 98% standard compaction. Where required beneath DPM, select fill shall be compacted to 95% standard compaction. Any disturbed existing subgrade shall be compacted prior to placement of select fill or DPM
3. Pipe culverts shall be reinforced concrete (RCP) class 4 rubber ring jointed (RRJ) and sized to suit the upstream catchment. Pipe diameter shall not be less than any upstream pipes. Minimum pipe diameter in a cleared catchment is 375 mm while in partly vegetated and / or where trees overhang the roadway is 450 mm. Grade of pipe culvert or dish crossing should match the existing road grade, but not less than 0.5%
4. Pipes are to be laid on an 100 mm compacted thickness bed of sand or crusher dust and backfilled to half pipe height with same. DPM shall be compacted down the side of the pipe culvert and cover pipe collars with an 150 mm minimum compacted thickness
5. Standard headwalls with wings shall be installed outside the clear zone (refer schedule above for clear zone widths). Precast headwalls are to be fixed to pipe ends with a concrete collar. Collar shall be placed around the pipe, on the inside of the headwall, such that the concrete pushes through the opening to the outside face of the headwall. Concrete shall be finished off neatly with the outside face of the headwall and pipe end. Line and level of existing table drain should be shaped / adjusted to match the headwall to provide continuity of flow. Installation of tapered traversable headwalls may be permitted within the clear zone with the approval of council
6. Install scour protection at downstream outlet in accordance with the schedule shown above. Protective rocks to be placed on geotextile material. Depth of protection works shall be 2.5x the rock diameter
7. Proposed driveways should be located based on the safe intersection sight distance schedule above. Any variations to these distances require approval by council. Driveways are to be generally square to the roadway. Where topography demands, approach angles may be varied ±30° with the approval of council. Maximum driveway grade shall be 25% and maximum change in grade should not exceed 12%
8. High side driveways are to be shaped to shed water into the private property or table drains. Driveways are not to shed water or gravel onto the roadway. Stormwater runoff on low side driveways is the responsibility of the property owner
9. The driveway shape, drainage, guide posts and sight lines are the responsibility of the property owner and should be maintained in a functioning manner



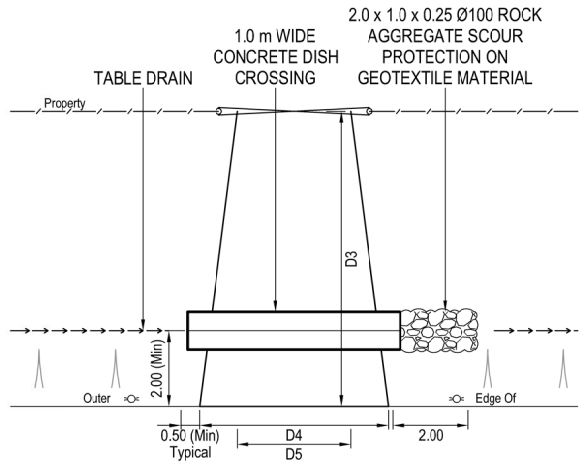
SECTION - PIPE CULVERT



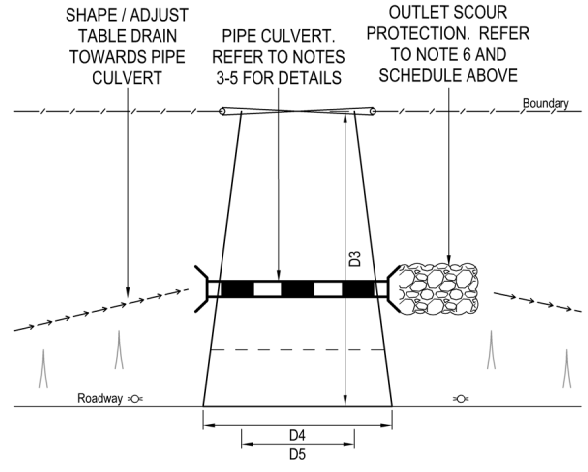
HIGH SIDE DRIVEWAY

LOW SIDE DRIVEWAY

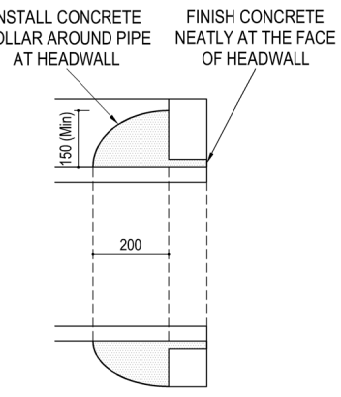
SECTION - DISH CROSSING AND LOW LEVEL DRIVEWAYS



PLAN - TYPICAL DISH CROSSING



PLAN - TYPICAL PIPE CULVERT



SECTION - CONCRETE COLLAR

Rev.	Date	Description	Drawn	Auth.	Rev.	Date	Description	Drawn	Auth.
C	06/04/2022	Concrete collar section and notes added	AJC	GC					
B	04/09/2020	Clarification for use of concrete pipes under driveways	JS	GC					
A	30/06/2022	Issued for construction	AJC	DH					

AutoCAD File: SD0102 Driveway Rural C.dwg

MIDCOAST council

Drawn: AJC

Checked: GC

Approved on Behalf of Midcoast Council

Plan Details: STANDARD DRAWING
RURAL VEHICULAR DRIVEWAY
PLAN, SECTIONS AND DETAILS

Sheet No.: 01

No. of Sheets: 01

Revision: C

Standard Dwg No.: SD 0102

100mm at A3 Or 200mm at A1 Size