



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. DIMENSION X IS THE EXTERNAL DIAMETER OF THE PIPE.
 3. PIPES ARE TO BE LAID WITH SLOTS OR PERFORATIONS UPWARDS WHERE A CONCRETE BED IS USED.
 4. MINIMUM DRAIN WIDTH $Y=X+300$ FOR DRAINS NOT EXCEEDING 1.5m COVER BELOW FINISHED LEVEL. $Y=X+450$ FOR DRAINS EXCEEDING 1.5m COVER BELOW FINISHED LEVEL.
 5. MAXIMUM PIPE DIAMETER TO BE 450mm.
 6. LOCATION AND DETAILS OF REQUIRED GEOTEXTILE SHALL BE AS DESCRIBED IN APPENDIX 5/4.
 7. REFER TO NRA HD 33 FOR GEOGRID REQUIREMENTS AND SOLUTIONS TO STONE SCATTER.

- KEY:
- GRANULAR MATERIAL TO MCDRW CLAUSE 503.3
 - ST4 CONCRETE TO MCDRW CLAUSE 2602
 - CLAUSE 505 TYPE B COARSE AND LIGHT WEIGHT AGGREGATE TO TABLE 5/5 MCDRW SERIES 500
 - CLAUSE 505 TYPE A FINE AGGREGATE TO TABLE 5/5 OF MCDRW SERIES 500

NOT TO SCALE

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<p>NRA An tÚdarás um Bóithre Náisiúnta National Roads Authority</p>	ROAD CONSTRUCTION DETAILS	DRAINAGE	P4	03/15	FILTER DRAINS TRENCH AND BEDDING DETAILS	Drawing No. RCD/ 500/20
			P3	01/09		
			P2	10/07		
			Issue	Date		