

| | | Technical Advice | Investigation | Planning & Design | Construction | Maintenance | | | Reconstruction | Improvement | Remarks |
|----------------------------------|--|------------------|---------------|-------------------|--------------|--------------------|-----------|---------------|----------------|-------------|----------------|
| | | | | | | Routine Inspection | Clearance | Minor Repairs | | | |
| Exclusive road drainage (cont'd) | Road side catch-pit piped connections and cross road drains connecting open channels | Highways | Highways | Highways | Highways | CESD Notes 1 & 10 | Highways | Highways | Highways | | |
| | Pump sumps in pedestrian subways, tunnels and vehicular under-passes | Highways | Highways | Highways | Highways | CESD Notes 1 & 10 | Highways | Highways | Highways | | |
| Other Stormwater Drainage | Building connections | CESD | CESD | CESD | CESD | CESD | CESD | CESD Note 3 | CESD Note 3 | CESD Note 3 | See Note 4 |
| | Carrier drains branch/tributary drains, open and decked nullahs box culverts, trained rivers | CESD | CESD | CESD | CESD Note 5 | CESD | CESD | CESD Note 3 | CESD Note 3 | CESD Note 3 | See Note 4 & 6 |
| | Flushing supply in conjunction with BLD. | CESD | CESD | - | - | CESD | - | CESD | - | - | |
| | Natural rivers and stream courses | CESD | CESD | - | - | Note 8 | Note 8 | - | - | CESD Note 9 | See Note 7 |

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|------------------------------------|--|------------------|---------------|-------------------|--------------|--------------------|-----------|---------------|----------------|-------------|--------------------------------|------------|
| | | | | | | Routine Inspection | Clearance | Minor Repairs | | | | |
| Other Stormwater Drainage (Cont'd) | Tide flaps and sluice gates | CESD | CESD | CESD | CESD | CESD | CESD | CESD | CESD | CESD | In consultation with DAF where | |
| | Non-roadside inlet baffles, grilles and sand traps | CESD | CESD | CESD | CESD | CESD | CESD | CESD | CESD | CESD | RSD/USD to clean refuse, etc. | |
| | Rising mains | CESD | CESD | CESD | CESD Note 5 | CESD | CESD | CESD Note 3 | CESD Note 3 | CESD Note 3 | CESD Note 3 | See Note 4 |
| Sewerage System & Installations | Building connection | CESD | CESD | CESD | CESD | CESD | CESD | CESD Note 3 | CESD Note 3 | CESD Note 3 | CESD Note 3 | See Note 4 |
| | Branch/Tributary sewerage | CESD | CESD | CESD | CESD Note 5 | CESD | CESD | CESD Note 3 | CESD Note 3 | CESD Note 3 | CESD Note 3 | See Note 4 |
| | Trunk and intercepting sewer | CESD | CESD | CESD | CESD Note 5 | CESD | CESD | CESD Note 3 | CESD Note 3 | CESD Note 3 | CESD Note 3 | See Note 4 |
| | Submarine outfalls | CESD | CESD | CESD | CESD | CESD | CESD | CESD | CESD | CESD | CESD | |
| | Rising mains, pressure sewers | CESD | CESD | CESD | CESD Note 5 | CESD | CESD | CESD Note 3 | CESD Note 3 | CESD Note 3 | CESD Note 3 | See Note 4 |

Notes to the Schedule

- Note 1 - For high speed roads, clearance of gully pits, pump sumps and gully connections is to be carried out by Highways Department.
- Note 2 - Highways Department is only responsible for the maintenance of surface channels and catchpits on roadside slopes where the slope itself is the maintenance responsibility of Highways Department.
- Note 3 - Minor repairs, reconstruction or improvement of existing sewers or drains in the road reserve, will normally be carried out by CESD with excavation permits issued by Highways Department. Permanent road reinstatement will generally be by Highways Department at CESD expenses. These minor works will be entrusted to Highways if it is deemed advantageous for the drainage works to be carried out at CESD expenses in conjunction with road works implemented by Highways Department.
- Note 4 - Any works by CESD which affect high speed roads are to be carried out in conjunction with Highways Department.
- Note 5 - Construction of new stormwater drains or sewers in the road reserve will generally be carried out by CESD with excavation permits issued by Highways Department. Where the new drainage works are to be carried out in conjunction with new road works, the drainage works will be entrusted to Highways Department if it is deemed advantageous and the method of funding is to be agreed in each case between Departments at the planning stage.
- Note 6 - Where it can be shown that an open nullah within the road reserve has been decked to permit traffic to cross over the nullah, then the nullah deck and associated supports (excluding the original nullah walls) shall be designed, constructed, and maintained by Highways Department. If reconstruction or improvement of the nullah deck is required, the work shall be carried out by Highways Department, unless such reconstruction ;or improvement is necessitated by enlargement or reconstruction of the nullah. In the latter case, the nullah and deck should preferably be reconstructed by CESD.

CESD shall be responsible for all works associated with box culverts except for the following responsibilities of Highways Department for box culverts within the road reserve:

- (i) Where vehicular traffic is running directly on the top slab of a box culvert, Highways Department shall be responsible for maintenance of the upper surface of the top slab.
- (ii) Where a cross road culvert is specially designed to convey stormwater or a stream course from one side of a road to the other, Highways Department shall be responsible for the construction and structural maintenance. However, a culvert which forms part of an extensive drainage system and incidentally passes under a road shall remain the responsibility of CESD.

Note 7 - Bridges carrying public roads across rivers, and natural stream courses shall be constructed and maintained by Highways Department.

Note 8 - CESD is responsible for desilting all man-made or 'engineered' public channels and watercourses. AFD is responsible for that section of the natural watercourse immediately upstream of agricultural weirs. RSD is responsible for cleansing of all watercourses. Problematical cases should be referred to the appropriate District Working Group on Watercourse Maintenance and Management.

(4th, 5th and 6th meetings of Central Steering Group on Watercourse Maintenance and Management refers.)

Note 9 - CESD is responsible for major improvement works such as river training and construction of lined channels under PWP items. Minor improvement works to streamcourses may be undertaken as Local Public Works.

Note 10 - Overall responsibility for exclusive road drainage lies with HyD. Where clearance is required, CESD shall provide the service of direct labour force and/or drainage contractor as appropriate on request.