

# Drop Pipe Inlet Design Information Sheet

*This worksheet is a supplement to  
Publication 832: Agricultural Erosion Control Structures: A Design and Construction Manual*

1. Watershed area: \_\_\_\_\_ ha \_\_\_\_\_ ac
2. Average grade of watershed: \_\_\_\_\_ %
3. Runoff curve number from Table 2.2 – 2.4: \_\_\_\_\_
4. Peak flow from watershed for a 10-year storm from  
Table 2.5-M to 2.11-M (2.5-I to 2.11-I): \_\_\_\_\_ m<sup>3</sup>/s \_\_\_\_\_ ft<sup>3</sup>/s
5. Drop pipe fall (top elevation – bottom elevation): \_\_\_\_\_ m \_\_\_\_\_ ft
6. Horizontal distance to complete fall: \_\_\_\_\_ m \_\_\_\_\_ ft
7. Type of drop pipe inlet – Section 4.3.2. Fill out applicable section below (A/B/C)

## A. Drop pipe structure

- Number of units: \_\_\_\_\_
- Head of water over horizontal pipe: \_\_\_\_\_ m \_\_\_\_\_ ft
- Horizontal pipe diameter – Table 4.15-M (4.15-I): \_\_\_\_\_ mm \_\_\_\_\_ in
- Vertical pipe diameter – Table 4.16-M (4.16-I) \_\_\_\_\_ mm \_\_\_\_\_ in
- Berm height (min. 450 mm (18 in.) + freeboard 300 mm (12 in.)) \_\_\_\_\_ mm \_\_\_\_\_ in

## B. Sloped pipe structure

- Number of units: \_\_\_\_\_
- Slope of pipe:  
(>2.5%): (\_\_\_\_\_ m (\_\_\_\_\_ ft) fall ÷ \_\_\_\_\_ m (\_\_\_\_\_ ft) length) x 100 = \_\_\_\_\_ %
- Diameter of sloped pipe – Table 4.17-M (4.17-I): \_\_\_\_\_ mm \_\_\_\_\_ in
- Berm height (pipe diameter + freeboard 300 mm (12 in.)) \_\_\_\_\_ mm \_\_\_\_\_ in

**C. Small capacity riser pipe**

Number of units: \_\_\_\_\_

Slope of horizontal pipe \_\_\_\_\_ %

Diameter of horizontal pipe – Table 4.18-M (4.18-I): \_\_\_\_\_ mm \_\_\_\_\_ in

Riser pipe diameter — Table 4.19-M to 4.20-M (4.19-I to 4.20-I) \_\_\_\_\_ mm \_\_\_\_\_ in

Orifice plate required – Table 4.21-M to 4.22-M (4.21-I to 4.22-I):  Yes  No

Diameter: \_\_\_\_\_ mm \_\_\_\_\_ in

Berm height  
(depth of water + freeboard (minimum 0.15 m (6 in.))): \_\_\_\_\_ mm \_\_\_\_\_ in8. Anti-seepage collars required – Section 4.3.2  Yes  No

Number of collars: \_\_\_\_\_

Diameter required: \_\_\_\_\_ mm \_\_\_\_\_ in

Distance from drop pipe:

1st collar \_\_\_\_\_ m \_\_\_\_\_ ft

2nd collar \_\_\_\_\_ m \_\_\_\_\_ ft

9. Inlet grate – spacing of bars (refer to Section 4.3.2): \_\_\_\_\_ mm \_\_\_\_\_ in

10. Horizontal or sloped pipe – length: \_\_\_\_\_ m \_\_\_\_\_ ft

11. Enter other dimensions on sketches (Figures 4.11 to 4.13):