Tile/Surface Water Inlet Design Information Sheet

SI Units

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

Use this structure for erosion control of rills and small gullies. Do not use for subsurface drainage purposes only.

Section 1: Watershed Information

No.	Description	Input Value
1	Watershed area	_____ ha
2	Average grade of watershed	_____ %
3	Runoff curve number from Tables 2.2 – 2.4	_____
4	Peak flow from watershed for a 2-year storm from Tables 2.5-M to 2.11-M	_____ m^3/s

Section 2: Riser and Outlet Pipe Details

No.	Description	Input Value
5	Vertical riser pipe details	Riser pipe type: _____ Riser pipe diameter from Tables 4.19-M to 4.20-M: _____ mm Berm height (depth of water + freeboard (minimum 0.15 m): _____ m
6	Slope of dedicated outlet tile	_____ %
7	Diameter of dedicated outlet tile based on peak flow from Line (**4**), slope of dedicated outlet tile from Line (**6**) and using Figure 4.31 or Publication 29, Drainage Guide for Ontario	_____ mm
8	Corrugated steel outlet pipe details:	Type of joint (**check one**) ☐ butt ☐ sleeve Outfall type (**check one**) ☐ flush ☐ overhanging Pipe diameter from Table 4.24-M: _____ mm Pipe length (minimum length + cantilever) from Table 4.24-M: _____ m

Notes:

- Use this erosion control structure in conjunction with grassed waterways, emergency spillways, etc.
- Do not use this structure where drop pipe in elevation is greater than 1.5 m at the surface intake
- For drops greater than 1.5 m use the drop pipe inlet design.

Additional information regarding steeply sloping pipes can be found in the Publication 29, Drainage Guide for Ontario.

Tables and figures referenced in this document are found in *Publication 832: Agricultural Erosion Control Structures: A Design and Construction Manual*

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