Index 425-051 Ditch Bottom Inlet Type B

Design Criteria

FDOT Design Manual (FDM); ***Drainage Manual (DM)***; ***Drainage Design Guide (DDG)***

Design Assumptions and Limitations

The general purpose of the inlet top designs are:

a. For ditches, medians or other areas subject to traffic loads. This inlet may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet. Inlet is not suitable for bicycle traffic.

b. Provide full grate and horizontal slot designs for new construction.

c. Provide full grate and horizontal slot designs for replacing the vertical slot tops on existing Inlets Type B and Type X that are in locations subject to occasional pedestrian traffic.

Recommended maximum pipe sizes for concrete pipe:

For 3’8” Inlet Inside Width: 30”

For 4’2” Inlet Inside Width: 36”

Sizes for other types of pipe must be checked for fit in accordance with ***Index 425-001***.

For larger pipe see bottom detail in ***Index 425-010***.

Plan Content Requirements

Include Drainage Structure information in the Plans in accordance with the requirements of the Basis of Estimates Manual (***BOE***) and the ***FDM.***

The type of top (single or double slots) depends on the approach ditch configuration and the hydraulic requirements of the site. Stipulate in the Plans the type of top to be constructed at each individual inlet location.

On existing inlets, construct conversion grates at the original grate elevations unless other elevations are called for in the Plans. When design calls for the inlet top to be constructed to support storm water detention, show details for ditch modifications and underdrains in the plans.

Payment

Item number	Item Description	Unit Measure
425-151-	Inlets, DT Bot, Type B	EA
520-1-	Performance Turf	SY

See the ***BOE*** and ***Specification 425*** for additional information on payment, pay item use and compensation.