

Index 425-001 Supplementary Details for Drainage Structures

Design Criteria and Guidance

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

Design Assumptions and Limitations

Structure Bottoms:

- Sump bottoms may be used with all manhole and inlet types.
- Only use Rectangular Riser Segments with Pipe Opening at Corner when round structures are not practical. Obtain Engineer of Record Approval for these segments. Shop Drawings are required for rectangular segments with Pipe Opening at Corner.

Plan Content Requirements

Summarize the Drainage Structures in the Plans in accordance with the requirements of the Basis of Estimates Manual ([BOE](#)).

Payment

For pay item purposes, the height used to determine if a drainage structure is greater than 10 feet shall be computed using:

- A. The elevation of the top of the manhole lid,
- B. The grate elevation or the theoretical gutter grade elevation of an inlet, or
- C. The outside top elevation of a junction box less the flow line elevation of the lowest pipe or to top of sump floor.

Item number	Item Description	Unit Measure
425-1-AAB	Inlet – Drainage	EA
425-2-AAB	Manhole – Drainage	EA
425-3-AAB	Junction Boxes – Drainage	EA
425-4	Adjust Inlet	EA
425-5-A	Adjust Manholes	EA
425-7	Replace Manhole Cover	EA
425-8	Adjust Miscellaneous Drainage Structure	EA

425-11	Modify Existing Drainage Structure	EA
425-12-A	Retractable Inlet Screen	EA
425-13-AA	Drainage Structure Pipe Connection Screen	EA
425-14-A	Grate for Existing Drainage Structure	SF

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