

LDC Amendment Request

ORIGIN: Community Development and Environmental Services Division

AUTHOR: John DiMartino

DEPARTMENT: Engineering Services

AMENDMENT CYCLE: Cycle 1, 2007

LDC PAGE: LDC6:20

LDC SECTION(S): 1.08.01 Abbreviations
1.08.02 Definitions
6.05.02 Bulkheads and Seawalls

CHANGE: Requires residential new construction to provide minimal pretreatment of stormwater runoff prior to discharge into canals serving the Gulf of Mexico.

REASON: No standards are currently defined; runoff is simply delivered over the seawall without regard to water quality control. Infiltration trenches can be expected to remove up to 90% of sediments, metals, coliform bacteria and other organic matter, as well as up to 60% of phosphorus and nitrogen in the runoff. This excellence of pretreatment is achieved for very little effort. A secondary benefit is the contribution to structural stability and longevity of new and existing seawalls by improving equalization of stress and reducing potential for failure.

FISCAL & OPERATIONAL IMPACTS: Construction costs include clearing, excavation of trench, placement of filter fabric and stone and is virtually maintenance free. This compares favorably to current single family site preparation and development of clearing, grading, installation of irrigation and sod.

RELATED CODES OR REGULATIONS: EPA 40 CFR (National Pollution Discharge Elimination System), USACOE; (Coastal Management), **County Ordinance 85-02 governing Seawalls and Revetments**

GROWTH MANAGEMENT PLAN IMPACT: None.

OTHER NOTES/VERSION DATE: This proposal was created 1 March, 2007. Revised per DSAC on May 2, 2007, **and revised per the CCPC on 15 August 2007.**

Amend the LDC as follows:

1.08.01 Abbreviations

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BMP – Best Management Practices.

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1.08.02 Definitions

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Best Management Practices: Schedule of activity, maintenance procedures, pre-emptive site control measures and other management techniques intended to reduce the discharge of pollutants to waters of the United States.

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Infiltration trench: For purposes of single family residential applications; an excavated trench, nominally two to three feet in width and depth lined with a class "C" geotextile fabric, or better, and backfilled with clean stone aggregate.

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6.05.02 Seawalls and Bulkheads

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D. Best Management Practice (BMP) for single family residential lots employing seawall(s).

Coastal canal residential lots bounded by seawall(s) shall provide an **infiltration trench adjacent** to and along the entire length of the seawall serving the lot perimeter. **Infiltration trenches** shall be excavated to a width and depth of 2 to 3 feet, lined and secured with a class "C" geotextile filter fabric, or better, and backfilled with clean ¾ – 1 inch stone. Other agency permitting requirements notwithstanding, **infiltration trench** characteristics shall be suitable for pretreatment of drainage areas of five (5) acres or less. **The infiltration trench shall be directly behind and centered on the 2" weephole shown on the "Sample Concrete Seawall" detail of the Technical Specifications section of County Ordinance 85-02.**