Use of Linear Lakes in Amenityizing Floodplain Reclamation for Communities

Gabriel Novak, P.E., CFM

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• Planning • Civil Engineering
• Surveying • Hydraulics & Hydrology
Cambridge Crossing

Located in the City of Celina, Collin County, Texas
Cambridge Crossing

600 acres total
320 ac
1200 single family lots
Doe Branch Trib ‘D’
: Drainage Area of 1200 ac
Farmers Ditch
50’ wide - 2’ depth
Existing Creek
5 ft wide - 2 ft deep
Hydraulic Slope = 0.1%
Storm Sewer Option

Cost $9.1 million
Engineers Typ Solution
Concrete Channel
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Concrete Channel
How to efficiently convey the runoff & Add Value to the Project

• 3 Previous Projects As Inspiration
Wet Conveyance Channel-U/S End
Wet Conveyance Channel D/S End
Typ Parameters
Normal Pool 8’ depth
4’ Safety Ledge
Internal Slopes 3:1-4:1
External Slopes 4:1-6:1
Wet Conveyance Channel U/S
Mustang Lakes
Cambridge Ponds System
Thank You to the Dowdey, Anderson & Associates Inc. Team