FLOODPLAIN LATERAL FLOW ANALYSIS
Lower Rio Grande Valley
By Greg Gentsch, P.E.  September 30, 2019

Typical Cross Section - Before

United States

Mexico
FLOODPLAIN LATERAL FLOW ANALYSIS

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TYPICAL PLAN VIEW

United States

Mexico

Tributary inflow to floodplain

FLOODWAY

FLOODPLAIN

RISING STAGE

Tributary inflow to floodplain
A less obstructed and well maintained riverbank will lower the flood elevation since there will be less obstructing vegetation on the banks in the floodway.
Velocities on the Floodplain are all below 1 ft./sec

Velocities at the 5” openings will average below 1 ft./sec

RIO GRANDE MAIN CHANNEL

RIO GRANDE IMPROVED FLOW

BOLLARD FENCE PLAN VIEW