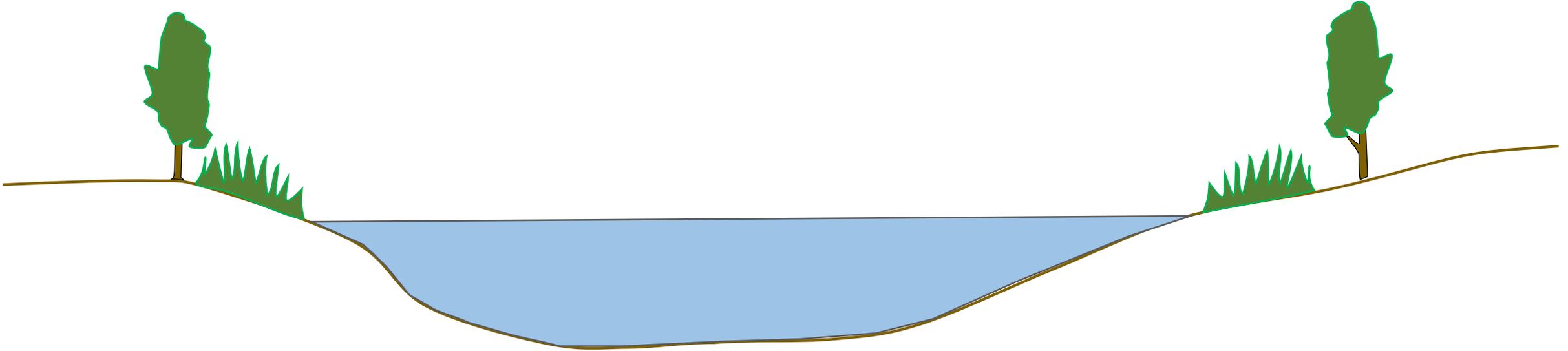


United States

Mexico



TYPICAL CROSS SECTION - BEFORE

RISING STAGE

FLOODPLAIN

FLOODWAY

FLOODPLAIN

United States

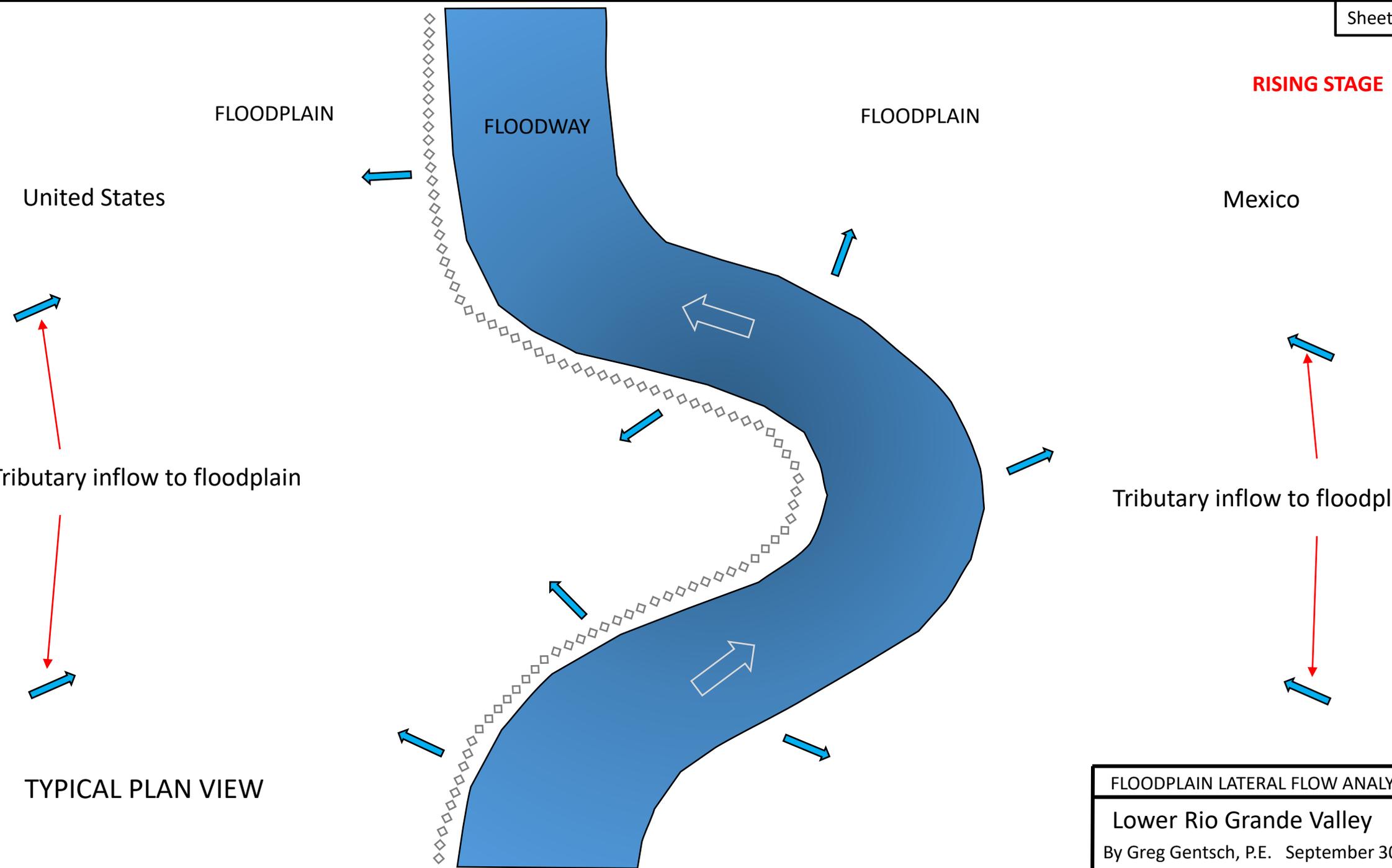
Mexico

Tributary inflow to floodplain

Tributary inflow to floodplain

TYPICAL PLAN VIEW

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



RECEDING STAGE

FLOODPLAIN

FLOODWAY

FLOODPLAIN

United States

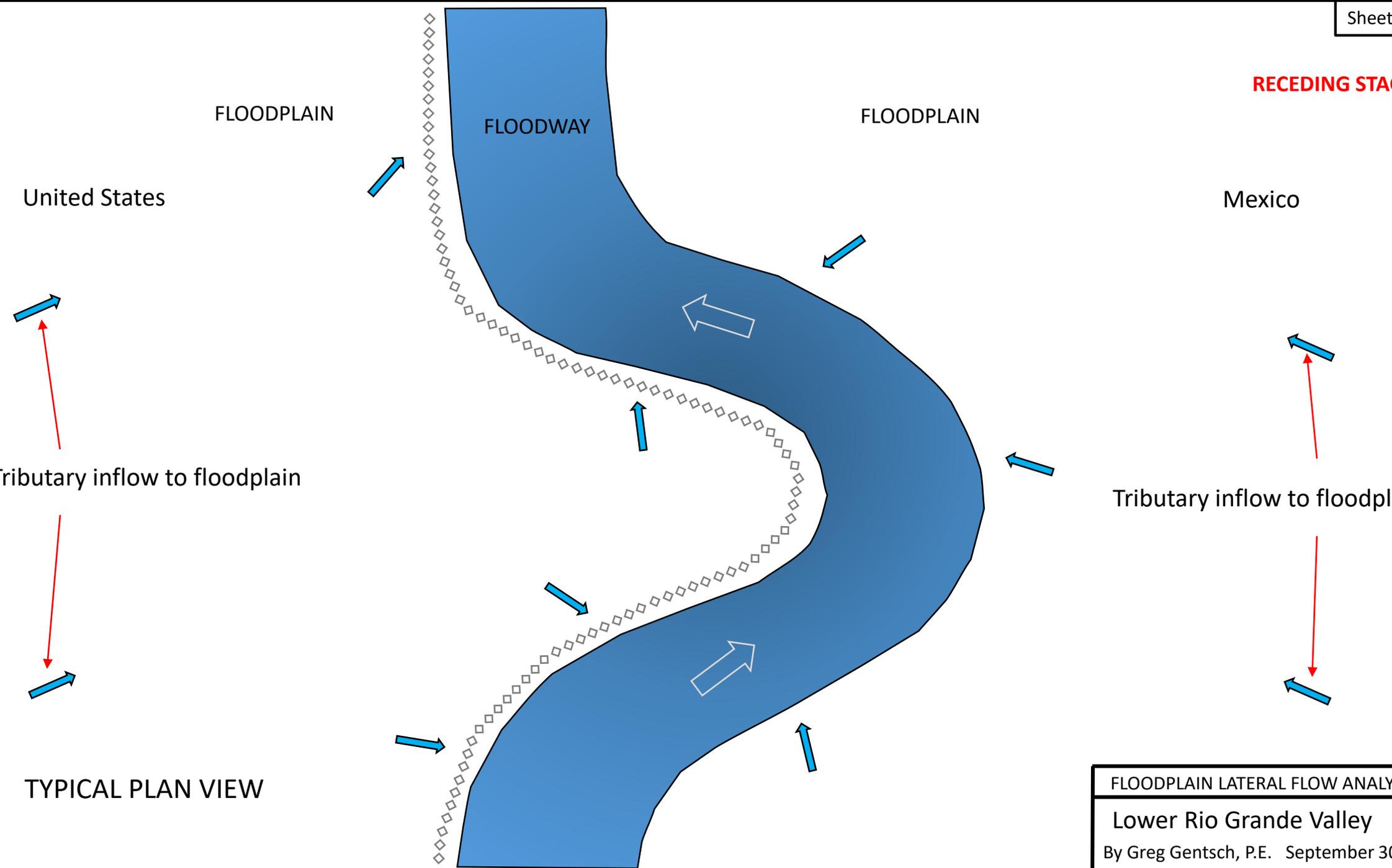
Mexico

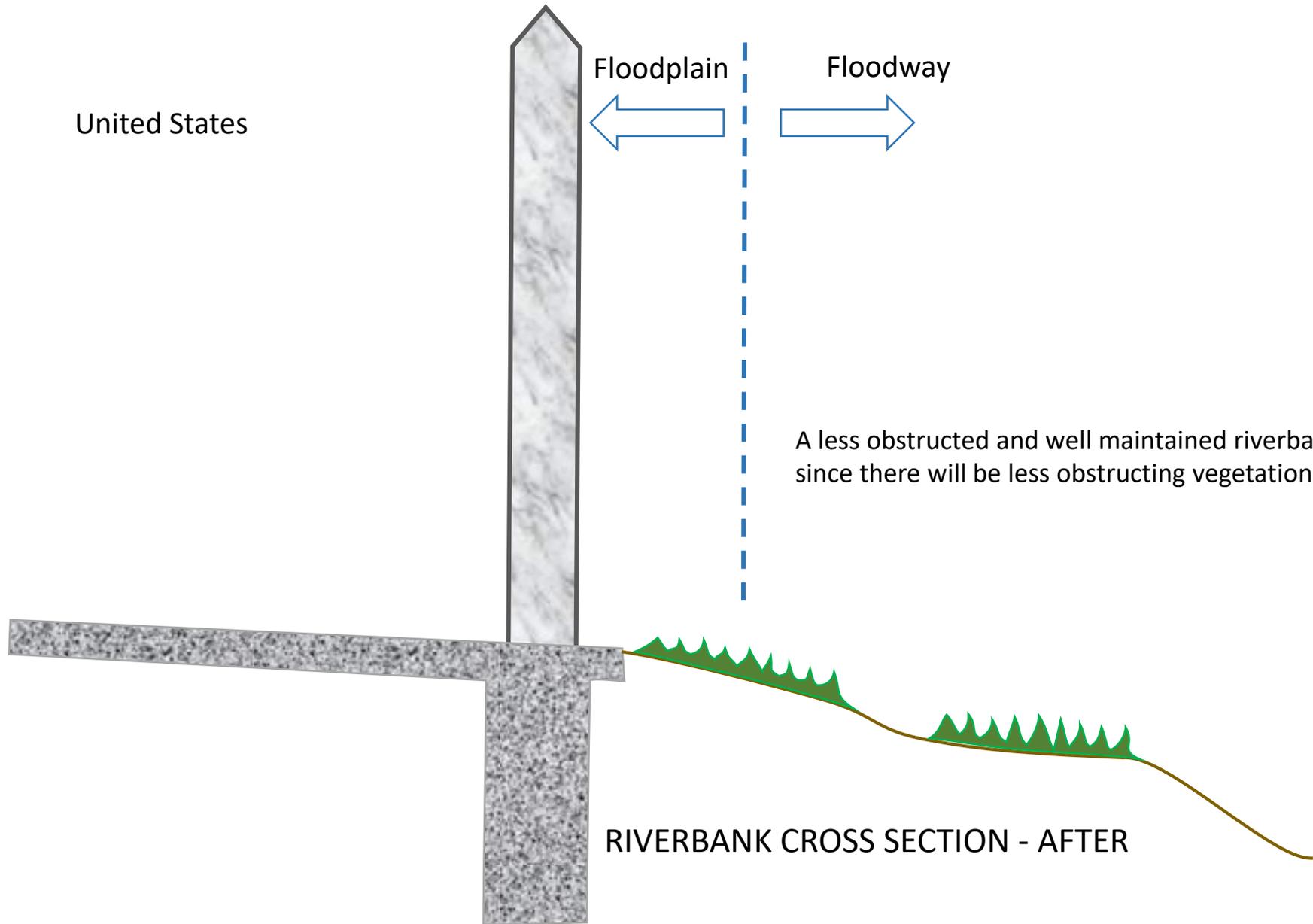
Tributary inflow to floodplain

Tributary inflow to floodplain

TYPICAL PLAN VIEW

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





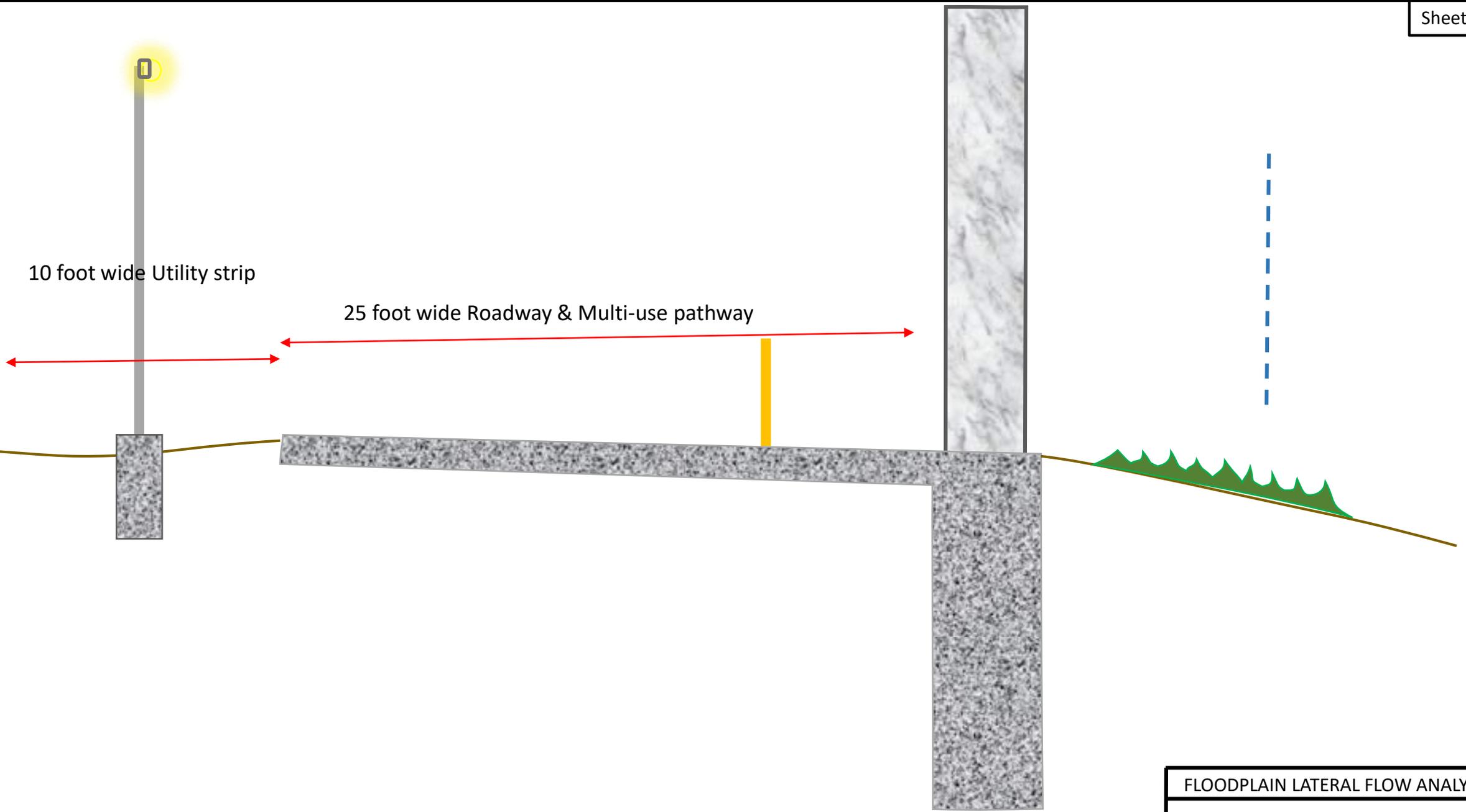
United States

Floodplain

Floodway

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.

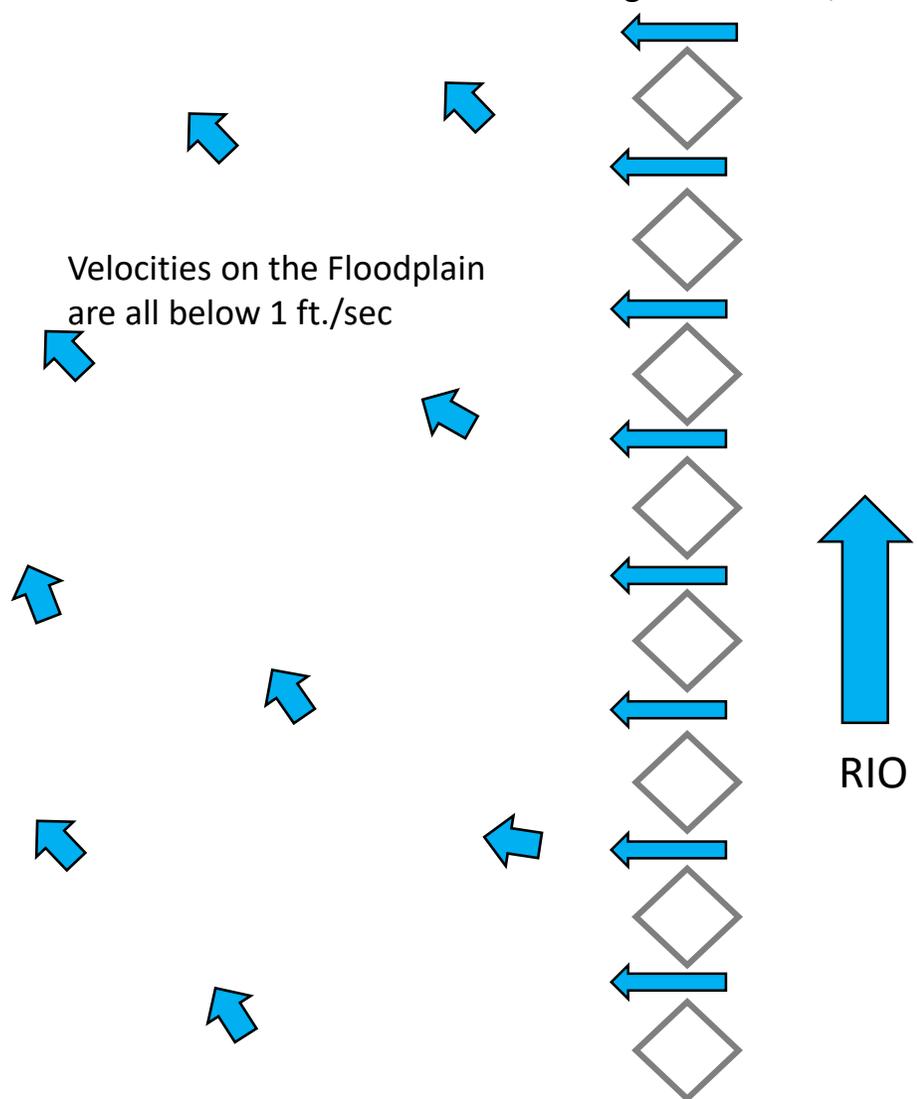
RIVERBANK CROSS SECTION - AFTER



United States

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

Velocities on the Floodplain
are all below 1 ft./sec



RIO GRANDE MAIN CHANNEL

RIO GRANDE IMPROVED FLOW

BOLLARD FENCE PLAN VIEW