1.1 MAN-MADE CHANNEL ASSESSMENT

There are two types of man-made storm drainage systems; either piped or open channels. A piped system completely removes a stream from its natural environment, eliminating any natural functions that may have existed. The lowest RCI of 0 is therefore applied to all piped systems. Refer to page 4 for an example of a piped system.

Man-made open channels are further divided into two main categories; hard-lined and naturalized. Hard-lined channels include concrete, gabion, and/or riprap-lined channels. Although still connected to its environment, much of the natural functions of the stream are severely impaired. Refer to pages 4 and 5 for examples of a hard-lined channel and the corresponding RCI.

Naturalized man-made channels (i.e. channels that are not restricted by armoring techniques or have "naturalized" over time through sediment deposition and/or re-vegetation) should be assessed utilizing the Natural Channel Assessment Methodology outlined in Section 1.2 and Section B of Form 1-1.

MAN-MADE CHANNEL ASSESSMENT

1. Piped Channel	➔	RCI = 0.0
2. Open Channel lined with concrete	➔	RCI = 0.25
3. Open Channel lined with riprap, gabion, etc	➔	RCI = 0.50
4. Naturalized, Man-Made Channel	➔	Apply Natural Channel Assessment Methodology

OPTION 1: Piped Channel

RCI = 0.0

OPTION 2: Open Channel lined with concrete

RCI = 0.25

OPTION 3: Open Channel lined with riprap, gabions or comparable material

RCI = 0.50

OPTION 4: Naturalized, Man-Made Channel

Apply Natural Channel Assessment Methodology