Stream Corridor Restoration Design Review Checklist

Applicant: _____ Date: _____

Submitted By: _____ Project Location: _____

Please provide a brief project description / project summary:

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_____

1) What type of permits are needed for this project and when were they/will they be issued

   _____

   _____

   _____

2) Drainage Area _____Ac
3) Describe land use of the drainage area _____% residential; _____% commercial; _____% institutional; _____% industrial; _____% agriculture ; _____% other
4) Describe existing vegetative cover on the stream banks / riparian area _____

   _____

   _____

   _____

5) Overall length of stream corridor included in the project site _____ Lineal Feet
6) Actual length of stream corridor where stabilization work will be installed _____ Lineal Feet
7) Are active nick points present _____Yes _____No
8) Will riffle pools be installed _____Yes _____No
9) If yes, what is the proposed height of the weirs _____ inches.
10) What will backslope be _____: _____
11) What is the proposed spacing of the weirs _____Ft
12) If nick points exist and riffle pools will not be installed described how downcutting of the bed will be controlled _____

    _____

    _____

13) Bottom width of stream _____Ft
14) Height of Banks _____Ft
15) Existing top width of the stream _____Ft
16) Existing bank slope _____:_____
17) Proposed finished bank slope _____: _____
18) Proposed finished top width of the stream_____ Ft
19) If a flood plain is not present will a flood plain be constructed at the bounce line of the 1.5 year storm ___Yes ___No
20) If yes, what is the proposed width of constructed flood plain _____Ft

21) If no, please explain why a flood plain won't be constructed at the bounce line of the 1.5 year storm

_____

_____

_____

22) How will the toes of the bank be protected to the bounce line of the 1.5 year storm

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_____

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_____

23) Describe how establishing vegetation and controlling erosion until vegetation is established will be accomplished on streambanks (attach a plant list, cover crop information, seeding rate, etc.)

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24) Describe any other stabilization methods that will be used and show where they will be installed (bendway weirs, j hooks, etc.) _____

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25) Describe any in-stream habitat enhancement measures that will be installed (i.e. bank hides, V weirs, loafing boulders, etc) _____

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26) Describe any buffer and/or riparian area enhancement that will be done

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27) Attach a map showing the location of stabilization work to be performed.

28) Attach of the drainage area above the stream stab project site.

29) Attach a plan view, profile and cross sectional drawing of the proposed stream corridor stabilization.

30) Estimate the amount of bank erosion that will be controlled by this project:

(Length of the eroding bank x depth of the eroding bank x annual estimated width of the erosion) =

_____CF of eroded sediment

_____CF of eroded sediment x 90 lbs/CF = _____lbs of eroded sediment

_____ lbs of eroded sediment / 2,000 lbs per ton = _____tons / year

FOR REVIEWERS USE ONLY

☐ This design appears to comply with the standards in the Iowa Stormwater Management Manual.

☐ This design does not appear to comply with the standards in the Iowa Stormwater Management Manual.

Comments: _____

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_____

Name of Reviewer: _____ Date: _____

Signature: _____