

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [HELP]

1. Name of proposed project, if applicable:

STVMA Emergency Bio-engineered Deflection Barbs



Kittitas County CDS

Email Address: fiatwx@yahoo.com

2. Name of applicant: Brad Colman, President, Ski Tur Valley Maintenance Association (STVMA)

3. Address and phone number of applicant:
11325 207th Ave. SE
Issaquah, WA 98027
Day Time Phone: 206 390-5106

Contact person:
Richard Pierson
3516 South 336th St.
Federal Way, WA 98001
253-205-1951

4. Date checklist prepared: June 16, 2021

5. Agency requesting checklist: Kittitas County Development Services

6. Proposed timing or schedule (including phasing, if applicable):

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? NO If yes, explain.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Kittitas Conservation Trust, Gold Creek Instream Restoration

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? No If yes, explain.

10. List any government approvals or permits that will be needed for your proposal, if known.

-Kittitas County Shoreline Exemption Permit

-Washington Dept. of Fish&Wildlife Hydraulic Project Approval

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

Construct five(5) bio-engineered deflection barbs of tree boles including branches up to 30 feet in length with roots buried into bank approximately eight feet from bank edge along

approximately 400 feet on the generally East side of Gold Creek to prevent creek overflow or relocation destroying recreational residences and upland forests,

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

Location legal description, site plan, and topographic plan included in Shoreline Exemption Permit Application **Tax Parcel ID Number: 328235**

B. Environmental Elements [\[HELP\]](#)

1. **Earth** [\[help\]](#)

a. General description of the site:

(circle one) Flat, rolling, hilly, steep slopes, mountainous, other _____

b. What is the steepest slope on the site (approximate percent slope)? 5%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Sand, gravel, rocks and forest soils which would not be removed.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

Gold Creek has a recent (50 year) history of meandering across floodplain destroying upland vegetation and re-positioning creek channel.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

Activity will be limited to approximately one-quarter acre and only excavation will be for placing tree roots into bank. Five tree boles with limbs and roots will be transported to site over approximately 300 feet of creek bed when creek is dry.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Highly unlikely. Project is designed to prevent bank and upland erosion and build up rocks and sand along bank edge with creek.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? 0%

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Bio-engineered deflection barbs.

2. Air [\[help\]](#)

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Planning to use a B-10 excavator operating on diesel fuel will operate for 3-4 days on project

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No

c. Proposed measures to reduce or control emissions or other impacts to air, if any: *No*

3. Water [\[help\]](#)

a. Surface Water: [\[help\]](#)

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Gold Creek. Operation will occur when no water is in creek

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? No If yes, please describe and attach available plans.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None

4) Will the proposal require surface water withdrawals or diversions? *No* Give general description, purpose, and approximate quantities if known.

5) Does the proposal lie within a 100-year floodplain? Yes If so, note location on the site plan.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge. No

b. Ground Water: [\[help\]](#)

1) Will groundwater be withdrawn from a well for drinking water or other purposes? No if so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? No Give general description, purpose, and approximate quantities if known.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals . . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve. None

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe. ~~NA (not applicable)~~

Rain and snow fall on berms run off into Gold Creek.

2) Could waste materials enter ground or surface waters? ~~NA~~ If so, generally describe.
No

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? No if so, describe.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: ~~NA~~ None planned

4. **Plants** [\[help\]](#)

a. Check the types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- Orchards, vineyards or other permanent crops.
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

b. What kind and amount of vegetation will be removed or altered? 8 foot by 2 foot surface for trench in bank for tree trunk and slightly bigger for roots, removing deciduous shrubs

b. List threatened and endangered species known to be on or near the site.
Bull trout in Gold Creek

D. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: native dogwood, cottonwood and/or willow

e. List all noxious weeds and invasive species known to be on or near the site. Canadian thistle

5. **Animals** [help]

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site. Songbirds, deer, elk and beaver

Examples include:

- birds: hawk, heron, eagle, songbirds, other:
- mammals: deer, bear, elk, beaver, other:
- fish: bass, salmon, trout, herring, shellfish, other _____

b. List any threatened and endangered species known to be on or near the site.

None known

c. Is the site part of a migration route? No If so, explain

d. Proposed measures to preserve or enhance wildlife, if any: *None*

e. List any invasive animal species known to be on or near the site. *None known*

6. Energy and Natural Resources [help]

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. Diesel fuel will be used to operate excavator for 3-4 days

- b. Would your project affect the potential use of solar energy by adjacent properties? No
If so, generally describe.

- c. What kinds of energy conservation features are included in the plans of this proposal?
List other proposed measures to reduce or control energy impacts, if any: NONE

7. Environmental Health [help]

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal?
No
If so, describe.

1) Describe any known or possible contamination at the site from present or past uses.

None known

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity. None known

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. None known

4) Describe special emergency services that might be required. Non planned

5) Proposed measures to reduce or control environmental health hazards, if any:

Excavator uses vegetable oil in hydraulics

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? None

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site. Operation of excavator would occur from 8 AM to 5 PM for 3-4 days

3) Proposed measures to reduce or control noise impacts, if any: Operation times will be limited to specified daylight hours

8. Land and Shoreline Use [help]

a. What is the current use of the site and adjacent properties? Residential vacation homes and forest uplands. Will the proposal affect current land uses on nearby or adjacent properties?

No If so, describe.

b. Has the project site been used as working farmlands or working forest lands? No If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? No If so, how:

c. Describe any structures on the site. On the adjacent site to the barb instillation exist three vacation residential structures.

d. Will any structures be demolished? No If so, what?

e. What is the current zoning classification of the site? ~~Rural Recreation~~

Planned Unit Development

f. What is the current comprehensive plan designation of the site? ~~Planned Unit~~

Development LAMIRO

g. If applicable, what is the current shoreline master program designation of the site?

Shoreline Residential/Limited Area of More Intensive Rural Development

h. Has any part of the site been classified as a critical area by the city or county? ~~No~~ If so, specify.

Yes Gold Creek is a ~~site~~ type 2 stream and wetlands extended by creek.

- i. Approximately how many people would reside or work in the completed project? None
- j. Approximately how many people would the completed project displace? None
- k. Proposed measures to avoid or reduce displacement impacts, if any: *None*
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: *None*
- m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

9. Housing [help]

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. *None*
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. *None*
- c. Proposed measures to reduce or control housing impacts, if any: *None*

10. Aesthetics [help]

- a. What is the tallest height of any proposed structure(s), not including antennas; two feet what is the principal exterior building material(s) proposed? *Trees/Wood*
- b. What views in the immediate vicinity would be altered or obstructed? *None*
- c. Proposed measures to reduce or control aesthetic impacts, if any: *Planting of native shrubs and/or trees in barb key.*

11. Light and Glare [help]

- a. What type of light or glare will the proposal produce? No What time of day would it mainly occur?

- b. Could light or glare from the finished project be a safety hazard or interfere with views? No
- c. What existing off-site sources of light or glare may affect your proposal? None
- d. Proposed measures to reduce or control light and glare impacts, if any: None

12. Recreation [help]

- a. What designated and informal recreational opportunities are in the immediate vicinity?
Informal recreational opportunities include hiking, walking, nature observation and study and renewal.
- b. Would the proposed project displace any existing recreational uses? No If so, describe.
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: None

13. Historic and cultural preservation [help]

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers ? No If so, specifically describe.
- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation?
No
This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.
- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Historical publications and knowledge. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.
- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.
Washington Department of Fish and Wildlife Hydraulic Project Approval

14. Transportation [help]

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

Construction equipment accessed via Gold Creek Lane

b. Is the site or affected geographic area currently served by public transit? No If so, generally describe. If not, what is the approximate distance to the nearest transit stop? 25 miles

c. How many additional parking spaces would the completed project or non-project proposal have? None How many would the project or proposal eliminate? None

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? No If so, generally describe (indicate whether public or private).

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? No If so, generally describe.

f. How many vehicular trips per day would be generated by the completed project or proposal? Zero, If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? No If so, generally describe.

h. Proposed measures to reduce or control transportation impacts, if any: No

15. Public Services [help]

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe. No

b. Proposed measures to reduce or control direct impacts on public services, if any. None

electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
other None

- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed. None

C. Signature [HELP]

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: 

Name of signee KARL L. FLACCUS

Position and Agency/Organization Trustee / (owner) lot 32

Date Submitted: 6/16/2021

D. Supplemental sheet for nonproject actions [HELP]

(IT IS NOT NECESSARY to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

Proposed measures to avoid or reduce such increases are:

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

Bio-Engineered Deflection Barbs (5) Construction Specifications

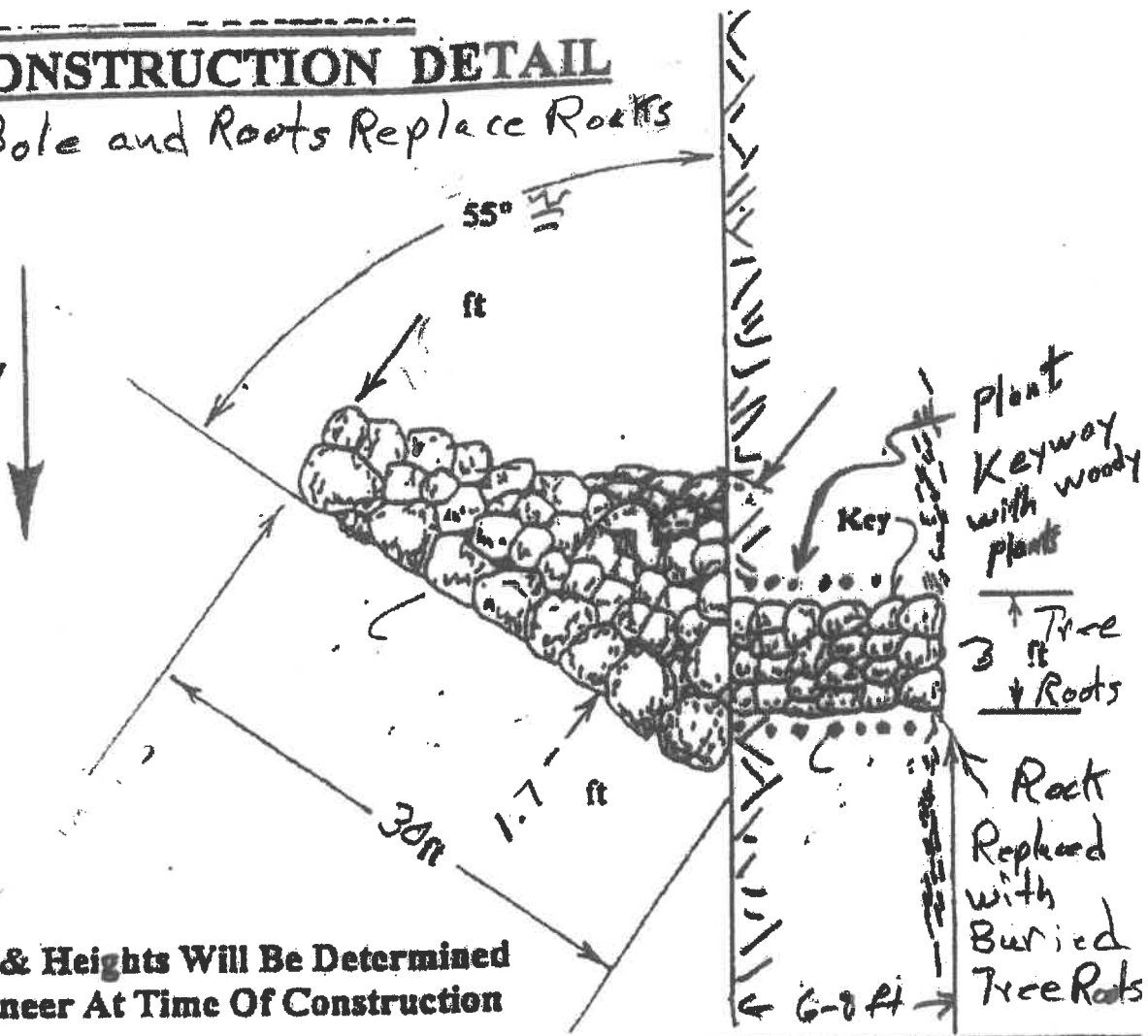
- 30 feet long trees bores with large end diameter of 20 inches or greater supported by rock
- trees maintain as many branches and roots as possible (to provide aquatic habitat and bank holding stabilization)
- deflection trees buried 6 to 8 feet back into bank into bank (key) with top of butt log 1.5 feet above normal low flow
- planting of bank key with native vegetation including red dogwood, cottonwood, and willow in late fall or early spring following barb establishment
- position deflection barbs up creek at approximately 55 degree angle to bank
- position five barbs per Kittitas Conservation Trust Preliminary Design Draft, June 8, 2017, p. 9 of 19, in alignment with proposed structures 2-41, 2-49, 2-50, 1-51 and 2-52
- GPS coordinates of barb bank locations in yellow are located on site plan, Kittitas Conservation Trust Preliminary Design Draft, June 8, 2017, p. 9 of 19 submitted.

Kittitas County Shoreline Exemption Permit
STVMA Emergency Bio-engineered Deflection Barbs, 6/16/2

BARB CONSTRUCTION DETAIL

Plan - Tree Bole and Roots Replace Rocks

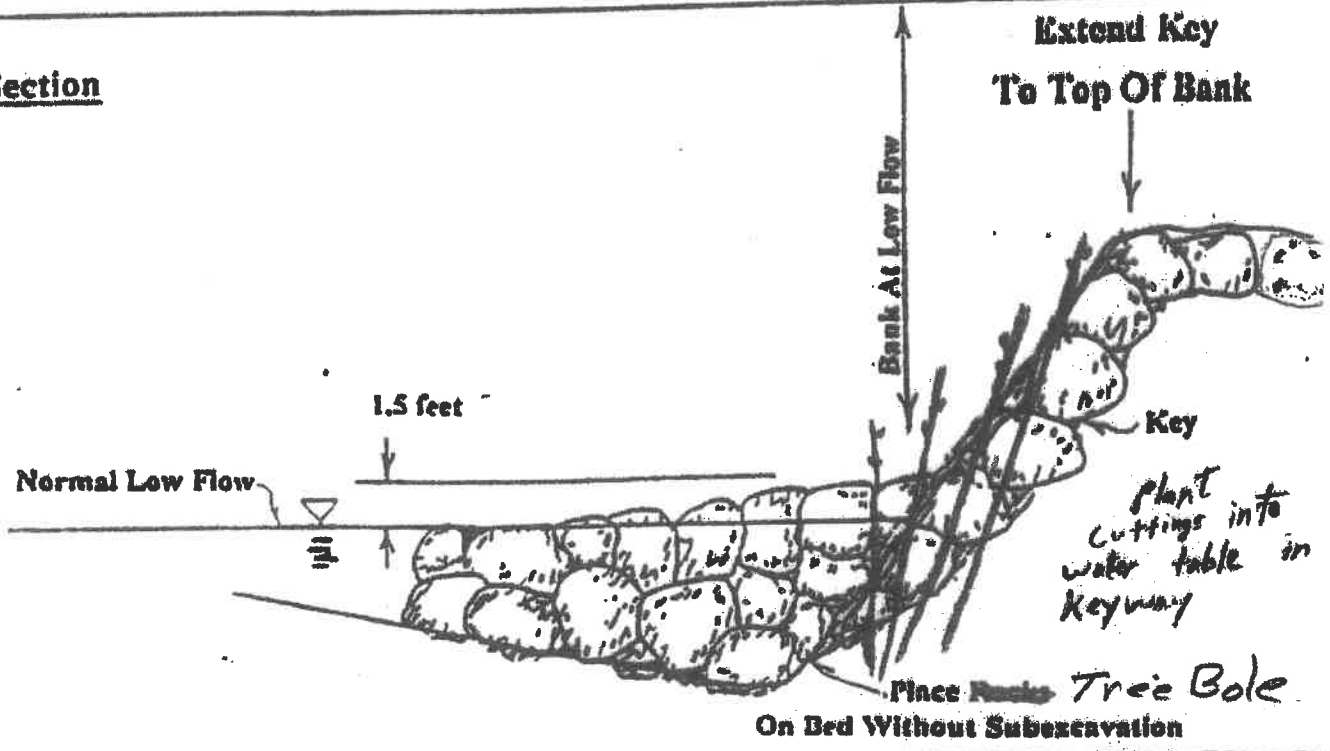
Flow



NOTE:

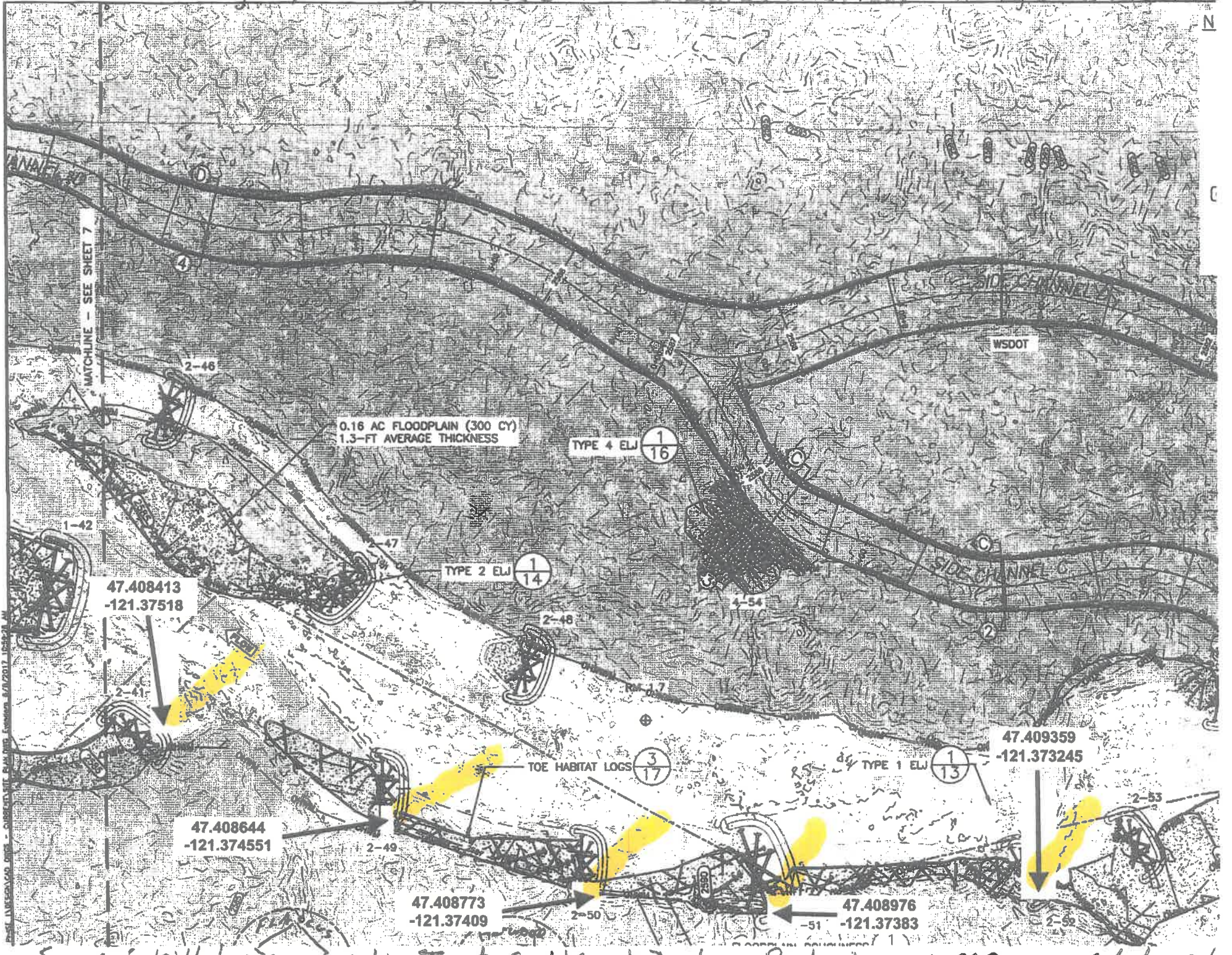
Final Orientation & Heights Will Be Determined by The Field Engineer At Time Of Construction

Cross-Section



STVMA Emergency Bio-engineered Deflection Barb, 6/10/16

S 7 VM A Emergency Bio-engineered Defraction/Barbs Site Plan, 6/16/21, Barbs in Yellow



BASE LINES AND LINES - CONSULT SITE PLAN SET, EMISSIONS, 5/1/2017, 10:56:01 AM