DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
ENVIRONMENTAL COORDINATOR
11511 MAIN ST., P.O. BOX 90012
BELLEVUE, WA 98009-9012

DETERMINATION OF NON-SIGNIFICANCE

PROPONENT: City of Bellevue, Utilities Department (contact Carol Cap @425-452-4494)

LOCATION OF PROPOSAL: Lower Newport Creek The project area is located southeast of the Coal Creek Parkway and I-405 intersection in the SW Section 16, Township 24 N, Range 5 East, WM in Bellevue, WA

DESCRIPTION OF PROPOSAL: Stream rehabilitation project to mitigate problems with sediment transport, streambed gradient and rehabilitate degraded fisheries habitat in the lower Newport Creek basin.

FILE NUMBER: **03-111674 GC**

The Environmental Coordinator of the City of Bellevue has determined that this proposal does not have a probable significant adverse impact upon the environment. An Environmental Impact Statement (EIS) is not required under RCW 43.21C.030(2)(C). This decision was made after the Bellevue Environmental Coordinator reviewed the completed environmental checklist and information filed with the Land Use Division of the Department of Planning & Community Development. This information is available to the public on request.

☐ There is no comment period for this DNS. There is a 14-day appeal period. Only persons who submitted written comments before the DNS was issued may appeal the decision. A written appeal must be filed in the City Clerk's office by 5:00 p.m. on _____.

☑ This DNS is issued after using the optional DNS process in WAC 197-11-355. There is no further comment period on the DNS. There is a 14-day appeal period. Only persons who submitted written comments before the DNS was issued may appeal the decision. A written appeal must be filed in the City Clerk's Office by 5 p.m. on August 14, 2003.

☐ This DNS is issued under WAC 197-11-340(2) and is subject to a 14-day comment period from the date below. Comments must be submitted by 5 p.m. on _____. This DNS is also subject to appeal. A written appeal must be filed in the City Clerk's Office by 5 p.m. on _____.

This DNS may be withdrawn at any time if the proposal is modified so that it is likely to have significant adverse environmental impacts; if there is significant new information indicating, or on, a proposals probable significant adverse environmental impacts (unless a non-exempt license has been issued if the proposal is a private project): or if the DNS was procured by misrepresentation or lack of material disclosure.

Environmental Coordinator — Date 7/31/03

OTHERS TO RECEIVE THIS DOCUMENT:
State Department of Fish and Wildlife
State Department of Ecology,
Army Corps of Engineers
Attorney General
Muckleshoot Indian Tribe

City of Bellevue
Department of Planning and Community Development
Development Services Staff Report

Proposal Name:	Lower Newport Stream Channel Improvements
Proposal Address:	Coal Creek Natural Area
Proposal Description:	This is an application for Critical Areas Land Use Permit. The applicant is proposing streambank stabilization work in Lower Newport Creek. The project calls for hand-placement of 250-300 logs in the creek as a soft stabilization measure to secure eroding streambanks and create habitat diversity. Up to 25 immature alders will also be cut and placed in the stream. Cut alders will be replaced with conifer species. Other plantings will be used to supplement the stabilization measures and repair foot paths as needed.
File Number:	07-122201-LO
Applicant:	**Bruce Jensen**, Project Manager, City of Bellevue Utilities Department
Decisions Included:	Critical Areas Land Use Permit (Process II - LUC 20.30P)
Planner:	David Pyle, Senior Land Use Planner
State Environmental Policy Act Threshold Determination:	**Determination of Non-Significance** **COB File No. 03-11674-GC** **Adopted on 07/31/03**
Director's Decision:	**Approval with Conditions**

Matthew A. Terry, Director
Department of Planning and Community Development

Application Date:	6/01/07
Notice of Application Publication Date:	6/14/07
Decision Publication Date:	07/19/07
Project Appeal Deadline:	08/02/07

For information on how to appeal a proposal, visit Development Services at City Hall or call (425) 452-6800. Comments on State Environmental Policy Act (SEPA) Determinations can be made with or without appealing the proposal within the noted comment period for a SEPA Determination. Appeal of the Decision must be received in the City's Clerk's Office by 5 PM on the date noted for appeal of the decision.

I. Background

A. Project Description

This restoration project on Lower Newport Creek was originally fully permitted with a SEPA DNS, HPA, and Clearing and Grading Permit and ready for construction in 2004. A lawsuit in the Coal Creek basin delayed all City projects in the basin until a settlement agreement was reached in 2005. The project has now been redesigned to have much less impact during construction, as described below.

The original project was to use construction equipment such as trackhoes to install logs and rocks. Access roads would have been constructed and a total 8712 square feet of clearing and grading needed, with 592 cubic yards of fill. The revised project will use hand-labor rather than construction equipment and EarthCorps volunteers to install 250-300 logs and conduct riparian planting. No access roads will be constructed. All logs and other materials will be either hand carried or delivered via a highline system. No rock is proposed for construction. No clearing and grading or fill is required. Some (up to 25) on-site alders may be used for streambank protection to supplement imported logs. Cut alders will be replaced by conifer species. Since there will be very little ground disturbance, the chance of erosion occurring is very minimal. Without construction equipment, project noise will be significantly reduced.

B. Site Description

The project is located in the Coal Creek Natural Area in the SE quadrant of Section 16, Township 24 North, Range 5 East in the Coal Creek Natural Area between 119th Ave SE and 123 Ave SE. Newport Creek is a tributary to Coal Creek, entering the creek just upstream of the crossing under I-405. The project lies completely within the Newport Creek Drainage basin. The basin drains from south to north. From its northern boundary at SE 80th Street, it drains approximately 2.45 miles north to the creek's confluence with Coal Creek just upstream of I-405. The western boundary of the Newport Creek Basin is approximately 119th Ave SE. The project is in the lower reach of Newport Creek, from 200 to 1800 feet upstream of the confluence with Coal Creek.

C. Need For Improvement

Due to past landscape modification, urbanization of the surrounding basin, and an increase in the total amount of impervious surface, these sections of the Lower Newport Creek have become unstable due to erosion associated with peak stormwater flows. Currently, this portion of the Lower Newport Creek suffers from unstable streambanks, a minimal amount of instream wood, and limited habitat features. Erosion from this section of stream is a significant source of downstream sedimentation and has impacted the lower basin aquatic environment. This is a proposal to restore the riparian area and instream habitat, reduce the intensity of stormwater, and secure the streambanks to limit the potential for future bank failure and erosion.

II. Site Description and Context

A. Critical Areas:

Newport Creek- This restoration project is located in Lower Newport Creek. Newport Creek is designated as a Type "F", fish-bearing stream. Activities within a Type "F" fish-bearing stream are restricted by the City of Bellevue Land Use Code Critical Areas Overlay District requirements. Bank stabilization projects are identified in the Land Use Code as allowed activities under section LUC 20.25H.055. As an allowed activity, this proposal must meet the performance standards outlined in LUC 20.25H.055.C.3.m and LUC 20.25H.080.A. These requirements are discussed in detail below.

III. State Environmental Policy Act (SEPA)

Environmental review was conducted on the original project and indicates no probability of significant adverse environmental impacts occurring as a result of the proposal. The Environmental Checklist adequately discloses expected environmental impacts associated with the project. The City codes and requirements, including the Clear and Grade Code, Utility Code, Land Use Code, Noise Ordinance, Building Code and other construction codes are expected to mitigate potential environmental impacts. The redesigned project with the hand-placement of wood and plants by EarthCorps volunteers will have much less impact than the original design, therefore, adoption of a past Determination of Non-Significance – Optional Process (DNS) is still the appropriate threshold determination under the State Environmental Policy Act (SEPA) requirements identified in WAC 197-11-600.

A. Earth and Water

The proposed project will stabilize streambanks in Lower Newport Creek by hand-installation of plants and logs. No clearing or grading will occur. Disturbance of existing vegetation will be minimal, as materials will either be carried or hand lifted in via a highline cable system. Up to 25 alders may be used for streambank stabilization. Any cut alders will be replaced with conifers. Any areas of exposed soils will be covered based on project BMP's.

B. Animals

The project is within the Coal Creek Natural Area. The presence of birds and mammals within the riparian areas is probable. To minimize impact to the riparian area, no clearing or grading is taking place, and all work will be done by hand. Cutthroat trout, sculpins, and coho salmon may be present in the creek. Prior to installation of wood, the fish will be excluded from the work area, and a flow bypass system set up around the site.

C. Plants

The existing plant community in the project area is predominately a red alder (*Alnus ruba*)/salmonberry (*Rubas spectabilis*) riparian forest. The subdominant tree species are

bigleaf maple (*Acer marcophyllum*) and black cottonwood (*Populus balasamifera*). Conifers are limited to a few individual western redcedar (*Thuja plicata*).

Other subdominant woody species include vine maple (*Acer circinatum*), red osier dogwood (*Cornus stolonifera*), stink currant (*Ribes bracteosum*), hazelnut (*Corylus cornuta*), Indian-plum (*Oemleria cerasiformis*), and red elderberry (*Sambucus racemosa*). Herbaceous species consist mainly of lady (*Athyrium filix-femina*) and sword ferns (*Polystichum munitum*), horsetail (*Equisetum sp.*), stinging nettle (*Urtica dioica*), waterleaf (*Hydrophyllum sp.*), and saxifrage species such as fringecup (*Tellima grandiflora*) and piggy-back plant (*Tolmiea menziesii*). Skunk cabbage (*Lysichiton americanum*), small-fruited bulrush (*Scirpus microcarpus*), and slough sedge (*Carex obnupta*) are present in areas with wet soils.

There are very few mature or large trees within the project area. The presence of numerous large western red cedar stumps with springboard notches suggest that the area once had sufficient large cedars to warrant logging. Since that time, it is likely that the dynamic and unstable nature of the system, combined with the lack of a conifer seed source, favored disturbance adapted, fast establishing species such as red alder and black cottonwood. In areas with limited or absent canopy, invasive Himalayan blackberry (*Rubus discolor*) dominates the subcanopy layer, preventing the natural regeneration of tree species.

No impact to the riparian corridor is proposed or expected except the removal of up to 25 immature alders which will be used for streambank stabilization and habitat enhancement. No clearing or grading, aside from work done by hand, is proposed with the riparian area as part of this application and no disturbance of this area is expected. All areas of temporary disturbance will be restored and monitored pursuant to an approved revegetation and monitoring plan. See Conditions of Approval in Section X of this report.

D. Noise

The site is within the Coal Creek Natural Area. Newport Creek is located in a ravine, and approximately 200-250 feet from the nearest single-family residences whose residents are most sensitive to disturbance from noise during evening, late night and weekend hours when they are likely to be at home. Construction noise will be limited by the City's Noise Ordinance (Chapter 9.18 BCC) which regulates construction hours and noise levels. See Conditions of Approval in Section X of this report.

IV. Consistency with Land Use Code Requirements:

A. Zoning District Dimensional Requirements:

This is a proposal for restoration of Lower Newport Creek by the City of Bellevue Utilities Department. Stream restoration projects are not subject to the use and dimensional provisions of the Land Use Code. No structures or new uses are proposed as part of this project.

B. Critical Areas Requirements:
The City of Bellevue Land Use Code (section 20.25H.055.B) lists allowed uses in Critical Areas. Stabilization Measures such as those to be implemented by this project are considered allowed activities within stream critical areas if the performance standards outlined in 20.25H.055.C.3.m and 20.25H.080.A can be met.

V. Consistency With Land Use Code Critical Areas Performance Standards:

A. Consistency With LUC 20.25H.055.C.3.m

m. Stabilization Measures. Proposed stabilization measures within a critical area or critical area buffer to protect against streambank erosion or steep slopes or landslide hazards may be approved in accordance with this subsection.

i. When Allowed. New or enlarged stabilization measures shall be allowed only to protect existing primary structures and infrastructure, or in connection with uses and development allowed pursuant to subsection B of this section. Stabilization measures shall be allowed only where avoidance measures are not technically feasible.

ii. Type of Stabilization Measure Used. Where a stabilization measure is allowed, soft stabilization measures shall be used, unless the applicant demonstrates that soft stabilization measures are not technically feasible. An applicant asserting that soft stabilization measures are not technically feasible shall provide the information relating to each of the factors set forth in subsection C.3.m.iii.(D) of this section for a determination of technical feasibility by the Director. Only after a determination that soft stabilization measures are not technically feasible shall hard stabilization measures be permitted.

iii. Definitions.

(B) Soft Stabilization Measures. As used in this part, "soft stabilization measures" include : biotechnical measures, bank enhancement, anchor trees, gravel placement, stepped back rockeries, vegetative plantings and similar measures that use natural materials engineered to provide stabilization while mimicking or preserving the functions and values of the critical area.

(C) Avoidance Measures. As used in this part, "avoidance measures " refer to techniques used to minimize or prevent erosion or slope collapse that do not involve modification of the bank or slope. "Avoidance measures' include

vegetation enhancement, upland drainage control, and protective walls or embankments placed outside of the critical area and critical area buffer.

(D) Technically Feasible. The determination of whether a technique or stabilization measure is "technically feasible" shall be made by the Director as part of the decision on the underlying permit after consideration of a report prepared by a qualified professional addressing the following factors:

(1) Site conditions, including topography and the location of the primary structure in relation to the critical area;

(2) The location of existing infrastructure necessary to support the proposed measure or technique;

(3) The level of risk to the primary structure or infrastructure presented by erosion or slope failure and ability of the proposed measure to mitigate that risk;

(4) Whether the cost of avoiding disturbance of the critical area or critical area buffer is substantially disproportionate as compared to the environmental impact of proposed disturbance, include any continued impacts on functions and values over time; and

(5) The ability of both permanent and temporary disturbance to be mitigated.

This restoration project in Lower Newport Creek consists entirely of "soft measures" and "avoidance measures". The soft measures include planting and placing logs to protect streambanks and create habitat. These are also "avoidance measures" included in the project design in that the project employs " techniques" to minimize and prevent erosion or slope collapse that do not involve modification of the bank or slope. No excavation is to be done in connection with this project. The use of soft stabilization measures has been found to be technically feasible and the project does not include the use of more invasive bank armoring techniques.

B. Consistency With LUC 20.25H.080 Performance Standards

A. General

Development on sites with type S or F stream or associated critical area buffer shall incorporate the following performance standards in design of the development, as applicable:

1. Lights shall be directed away from the steam.

N/A- No lights will be installed.

2. Activity that generates noises such as parking lots, generators, and residential uses shall be located away from the stream or any noise shall be minimized through the use of design and insulation techniques.

This project will be constructed by hand. Noises will be minimal and will include the sound of an occasional chain saw.

3. Toxic runoff from new impervious area shall be routed away from the stream.

N/A- No new pollution generating surfaces will be constructed.

4. Treated water may be allowed to enter the stream critical area buffer.

N/A- No new conveyance systems will be constructed.

5. The outer edge of the stream critical area buffer shall be planted with dense vegetation to limit pet or human use.

N/A- No modification of the upland uses adjacent to the stream are proposed as part of this project.

6. Use of pesticides, insecticides and fertilizers with 150 feet of the edge of the stream critical area buffer shall be in accordance with the City of Bellevue's "Environmental Best Management Practices," now or as hereafter amended.

N/A- This project does not propose the use of pesticides, insecticides, or fertilizers.

VI. Summary of Technical Reviews

A. Clearing and Grading:

The Clearing and Grading Division of the Planning and Community Development Department has reviewed the proposal for compliance with Clearing and Grading codes and standards. The Clearing and Grading staff found no issues with the proposed restoration project.

VII. Public Notice and Comment

Application Date:	June 1, 2007
Public Notice:	June 14, 2007
Minimum Comment Period:	June 28, 2007

The Notice of Application for this project was published in the Seattle Times on June

14, 2007. No comments have been received on this proposal to date.

VIII. Decision Criteria

The proposal, as conditioned below, meets the applicable regulations and decision criteria for a Critical Areas Land Use Permit pursuant to LUC Section 20.30P.

A. The proposal obtains all other permits required by the Land Use Code;

Finding: The applicant must obtain a Clearing and Grading permit before installing any plants or logs. **See Conditions of Approval in Section X of this report.**

B. The proposal utilizes to the maximum extent possible the best available construction, design and development techniques which result in the least impact on the critical area and critical area buffer;

Finding: The proposed stream restoration project is designed to be the least impacting to the surrounding landscape as possible. The proposal incorporates soft stabilization and avoidance measures designed to eliminate the requirement to perform more intensive clearing and grading activities. All work will be done by hand and modification to the stream channel will be limited to the installation of woody debris which may include minor hand digging. The proposal does require the removal of several young alder trees to provide wood for placement in the stream channel. All removed trees will be replaced as identified in the approved project replanting plans. **See Conditions of Approval in Section X of this report.**

C. The proposal incorporates the performance standards of Part 20.25H to the maximum extent applicable, and ;

Finding: As discussed in Section V of this report, the proposal meets the performance standards of LUC Section 20.25H.055.C.3.m for stream stabilization measures and LUC Section 20.25H.080.A for general performance standards.

D. The proposal will be served by adequate public facilities including street, fire protection, and utilities; and ;

Finding: This is a proposal to stabilize a stream in the Coal Creek Natural Area. It does not require street, fire protection, or utilities services.

E. The proposal includes a mitigation or restoration plan consistent with the requirements of LUC Section 20.25H.210; and

Finding: This is a project to install plants and logs in Lower Newport Creek to stabilize eroding streambanks and create additional habitat. The project is self mitigating in that the proposed stabilization will incidentally also enhance the site's

habitat structure. Additionally, there is no substantial clearing or grading associated with this proposal. All work will be done by hand. Potential disturbances include temporary footpaths to access the work sites, the cutting of up to 25 alders to be harvested and placed in the stream for additional stabilization and habitat, and minor hand digging required to anchor the woody debris that will be placed in the stream channel and that associated with the replanting of trees. The alders will be replaced by conifers and the foot paths will be mulched and planted with native riparian species as needed. New plantings will be monitored for one year as outlined in LUC 20.25H.220.H. **See Conditions of Approval in Section X of this report regarding the required restoration plan.**

F. The proposal complies with other applicable requirements of this code.

Finding: As discussed in Section IV & V of this report, the proposal complies with all other applicable requirements of the Land Use Code.

IX. Conclusion and Decision

After conducting the various administrative reviews associated with this proposal, including Land Use Code consistency, SEPA, City Code and Standard compliance reviews, the Director of Planning and Community Development does hereby **approve with conditions** the proposal to stabilize the streambanks in the Lower Newport Creek by installing logs and plants by hand.

Note- Expiration of Approval: In accordance with LUC 20.30P.150 a Critical Areas Land Use Permit automatically expires and is void if the applicant fails to file for a Clearing and Grading Permit or other necessary development permits within one year of the effective date of the approval.

X. Conditions of Approval

The applicant shall comply with all applicable Bellevue City Codes and Ordinances including but not limited to:

Applicable Ordinances	Contact Person
Clearing and Grading Code- BCC 23.76	Tom McFarlane, 425-452-5207
Land Use Code- BCC 20.25H	David Pyle, 425-452-2973
Noise Control- BCC 9.18	David Pyle, 425-452-2973

The following conditions are imposed under the Bellevue City Code or SEPA authority referenced:

1. **Clearing and Grading Permit:** Before beginning any stabilization activity, the applicant must apply for and obtain a Clearing and Grading Permit.

Authority: Bellevue City Code Section 23.76.025
Reviewer: David Pyle, Planning and Community Development Department

2. **Site Restoration:** A restoration and replanting plan for all areas of temporary disturbance that meets the requirements of LUC 20.25H.220.H shall be submitted and approved prior to the issuance of any clearing and grading permits for stabilization activity on this site.

Authority: Land Use Code Section 20.25H.220
Reviewer: David Pyle, Planning and Community Development Department

3. **Monitoring Required:** The applicant must submit as part of the required Clearing and Grading Permit application a monitoring plan that identifies how all areas that have been planted will be monitored for a period of five years following installation.

Authority: Land Use Code Section 20.25H.220.H
Reviewer: David Pyle, Planning and Community Development Department

4. **Noise Control:** The proposal will be subject to normal construction hours of 7 am to 6 pm Monday through Friday and 9 am to 6 pm on Saturdays, except for Federal holidays and as further defined by the Bellevue City Code. Upon written request to PCD, work hours may be extended to 10 pm if the criteria for extension of work hours as stated in BCC 9.18 can be met.

Authority: Bellevue City Code 9.18
Reviewer: David Pyle, Planning and Community Development Department

XI. Attachments:

1. Site context map- In File
2. Adopted Environmental Checklist and DNS Threshold Determination- In File
3. Site Plan- In File

03-111674 GC

City of Bellevue Submittal Requirements 27a

ENVIRONMENTAL CHECKLIST

4/11/03

If you need assistance in completing the checklist or have any questions regarding the environmental review process, please visit or call the Permit Center (425-452-6864) between 8 a.m. and 4 p.m., Monday through Friday (Wednesday, 10 to 4). Our TTY number is 425-452-4636

BACKGROUND INFORMATION

Property Owner: **King County. (City of Bellevue-Easement)**

Proponent: **City of Bellevue**

Contact Person: **Don Benson, ASLA, AICP**

(If different from the owner. All questions and correspondence will be directed to the individual listed.)

Address: **URS, 1501 4th Avenue, Suite 1400, Seattle, WA 98101**

Phone: **(206) 438-2027**

Proposal Title: **Stream Rehabilitation Project – Lower Newport Creek**

Proposal Location: **SW 16, Township 24 North, Range 5 East, W.M. (southeast of Coal Creek Parkway and I-405 intersection) in Bellevue, Washington**

(Street address and nearest cross street or intersection) Provide a legal description if available.

Please attach an 8 ½" x 11" vicinity map that accurately locates the proposal site. **(See attached)**

Give an accurate, brief description of the proposal's scope and nature:

1. General description: **The proposed project involves work to mitigate and improve problems with sediment transport and degraded fisheries habitat in the Newport Creek basin.**
2. Acreage of site: **Approximately 0.7 acre of affected area.**
3. Number of dwelling units/buildings to be demolished: **None.**
4. Number of dwelling units/buildings to be constructed: **None.**
5. Square footage of buildings to be demolished: **None.**
6. Square footage of buildings to be constructed: **None.**
7. Quantity of earth movement (in cubic yards): **Approximately 492 cy of excavation and approximately 592 cy of fill materials.**
8. Proposed land use: **Same as existing.**
9. Design features, including building height, number of stories and proposed exterior materials: **N/A**
10. Other:

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PERMIT PROCESSING

Estimated date of completion of the proposal or timing of phasing:

The project is proposed for construction in the summer and fall of 2004, subject to permit acquisitions.

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No.

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

Biological Assessment (2003); Wetland Delineation Report (2003). (BA) Preliminary Geotechnical Evaluation (2001) URS

Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. List dates applied for and file numbers, if known.

No.

List any government approvals or permits that will be needed for your proposal, if known. If permits have been applied for, list application date and file numbers, if known.

JARPA (Submitted on March 10, 2003)
Clearing and Grading
Right-of-Way

Please provide one or more of the following exhibits, if applicable to your proposal.
(Please check appropriate box(es) for exhibits submitted with your proposal):

_____ Land Use Reclassification (rezone) Map of existing and proposed zoning

_____ Preliminary Plat or Planned Unit Development
Preliminary plat map

__X__ Clearing & Grading Permit (To be submitted)
Plan of existing and proposed grading
Development plans

_____ Building Permit (or Design Review)
Site plan
Clearing & grading plan

_____ Shoreline Management Permit
Site plan

A. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site: ___ Flat ___ Rolling _X_ Hilly _X_ Steep slopes ___ Mountains ___ Other

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

Approximately 70% along the slopes in the stream corridor.

c. What general types of soil are found on the site (for example, clay, sand, gravel, peat, and muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

Alderwood gravelly sandy loams and Kitsap silt loams. There is no prime farmland.

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

There are some indications of unstable soils on steep slopes along Newport Creek.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

The proposed fill includes structural elements such as timber step downs; boulder cascades; deflector/grade control logs to control the streambed gradient, stabilize bedload and add roughness; and boulders to protect stream banks. The approximate quantities are about 592 cy. The source will be local, as available.

8,712# of clearing/grading is proposed PMK 6/9/03

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

There is a potential for some erosion as a result of clearing and construction activities.

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

Same as existing – 0%.

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

A temporary erosion and sedimentation plan will be in place prior to construction. Construction Best Management Practices (BMPs) will be implemented, including soil stabilization measures, restoration to equal or better than existing conditions, and perimeter and hillslope protection measures, among others.

See Construction techniques in Biological Assessment (5.2.2) on file w/ city. PMK 7/22/03

2. AIR

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile odors, and industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

There may be some dust generated by construction activities, along with vehicle emissions from construction activities. The quantities are unknown.

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 the air, if any:

The ground will be watered down to prevent dust, as needed. Construction vehicles will be used only as necessary and will not be left idling when not in use.

3. WATER

a. Surface

(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.

Yes. Newport Creek is a tributary of Coal Creek. There are also wetlands adjacent to the creek (Wetlands A through I). The wetlands are described in the wetlands delineation report included as Appendix C in the Biological Assessment (either attached or available for review at the City of Bellevue).

(2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If Yes, please describe and attach available plans.

Yes. The project will require some work within the stream and along streambanks in order to construct the erosion control and improved fish habitat structures.

(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.

Approximately 592 cy of material will be placed in the stream along the project reaches. No work will occur within the adjacent wetlands.

(4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

Yes. There will be temporary dewatering of short stream segments as construction proceeds along the creek. The quantity of dewatering is unknown because the segment lengths are uncertain at this time. Construction will occur during baseflow conditions (less than 1 cfs).

Dewatering must be consistent w/ Conservation Measures + BMP listed in BA. 8.0 (p 8-8)
bmk 7/22/03

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

Yes (along the creek).

(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

(1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description.

No.

(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.

N/A

c. Water Runoff (Including storm water)

(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.

Some runoff may occur from construction activities, particularly where existing vegetation is disturbed. Runoff may flow into Newport Creek.

(2) Could waste materials enter ground or surface waters? If so, generally describe.

No.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

A temporary erosion and sedimentation control plan will be prepared and in place prior to construction. Best Management Practices (BMPs) will also be employed, including full site restoration, soil stabilization and other protective measures.

4. Plants

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

X	deciduous tree: **alder**, **maple**, aspen, other: **riparian** cottonwood	
X	evergreen tree: **fir**, cedar, pine, other	
X	shrubs salmonberry, blackberry	AMR 6/9/03

X	grass
_____	pasture
_____	crop or grain
X	wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other
_____	water plants: water lily, eelgrass, milfoil, other
_____	other types of vegetation Ivy, Devils Club, sword fern

AMR 4/9/03

b. What kind and amount of vegetation will be removed or altered?

A small amount of vegetation near the construction staging areas may be altered. No vegetation is expected to be removed, except a few invasive species where new riparian plantings are proposed.

c. List threatened or endangered species known to be on or near the site.

None.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Areas disturbed during construction will be restored to equal or to better than existing conditions. There will be new riparian plantings using native plants along the stream corridor.

Planting to be done in accordance w/ Planting Plan Sheet L-7, L-8 L-9 received by the City on 5/6 AMR 7/22/03

5. **ANIMALS**

a. Check or circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

X	Birds: hawk, heron, eagle, songbirds, other:
X	Mammals: deer, bear, elk, beaver, other: raccoons, rodents
X	Fish: bass, salmon, trout, herring, shellfish, other:

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

Chinook salmon (threatened) are within the Coal Creek watershed and Lake Washington, but not in Newport Creek.

c. Is the site part of a migration route? If so, explain.

Yes, along the stream corridor.

d. Proposed measures to preserve or enhance wildlife, if any:

The proposed project is expected to improve conditions for spawning and rearing of resident and migratory fish specifies by increasing the amount of habitat in the Coal Creek watershed (including Newport Creek).

6. **Energy and Natural Resources**

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy need? Describe whether it will be used for heating, manufacturing, etc.

Other than fuel for construction vehicles, there will be no energy needs.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

N/A

c. What kinds of energy conservation features are included in the plans of the proposal? List other proposed measures to reduce or control energy impacts, if any:

None.

7. **Environmental Health**

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? If so, describe.

No.

(1) Describe special emergency services that might be required.

In the unlikely event of an accident during construction, emergency medical services might be required.

(2) Proposed measures to reduce or control environmental health hazards, if any.

Emergency services would be contacted in the unlikely event of an accident during construction.

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 long-term basis (for example, traffic, construction, operation, other)? Indicate what hours noise would come from the site.

There may be short-term construction noise from construction equipment during daytime construction hours (probably 7:00 a.m. to 4:00 p.m.).

(3) Proposed measures to reduce or control noise impacts, if any:

Construction equipment will only operate during daytime hours in conjunction with the City of Bellevue noise ordinance. The equipment will be kept in good operating condition and the engines will not be left idling when not in use.

8. **Land and Shoreline Use**

a. What is the current use of the site and adjacent properties?

Riparian corridor surrounded by residences.

b. Has the site been used for agriculture? If so, describe.

No.

c. Describe any structures on the site.

None.

d. Will any structures be demolished? If so, what?

N/A

e. What is the current zoning classification of the site?

R-5 (Single-Family Residential) also R-1

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

Single-Family Residential Newport Hills Subarea PF/SF-L Public facility / Single-family-Low Density

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

N/A

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

The project is in a riparian corridor with steep slopes along the streambanks. Type A Wetlands

i. Approximately how many people would reside or work in the completed project?

N/A

AMK 4/10/07

j. Approximately how many people would the completed project displace?

N/A

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 needed.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

N/A

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

N/A

c. Proposed measures to reduce or control housing impacts, if any:

None.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

N/A

b. What views in the immediate vicinity would be altered or obstructed?

N/A

c. Proposed measures to reduce or control aesthetic impacts, if any:

None.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

N/A

b. Could light or glare from the finished project be a safety hazard or interfere with views?

N/A

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light or glare impacts, if any:

None.

12. **Recreation**

a. What designated and informal recreational opportunities are in the immediate vicinity?

There are hiking opportunities along nearby trails.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

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**

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

There are no known places or objects listed on or proposed for the registers on or next to the site.

b. Generally describe any landmarks or evidence of historic, archeological, scientific, or cultural importance known to be on or next to the site.

There are no known landmarks or evidence of historic, archaeologic, scientific or cultural importance on or next to the site.

c. Proposed measures to reduce or control impacts, if any:

None needed.

14. **Transportation**

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

Generally, the site can be accessed from 119th Avenue SE, 121st Avenue SE, or SE 46th Place.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

Along 119th Avenue SE.

c. How many parking spaces would the completed project have? How many would the project eliminate?

None.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not Including driveways? If so, generally describe (indicate whether public or private).

No.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

Probably 10 to 15 vehicles per day (average) during construction. Peak volumes probably would occur near the beginning and end of the construction day.

g. Proposed measures to reduce or control transportation impacts, if any:

None needed.

15. **Public Services**

a. Would the project result in an increased need for the public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None needed.

16. **Utilities**

a. Circle utilities currently available at the site: **electricity**, **natural gas**, **water**, **refuse service**, **telephone**, **sanitary sewer**, septic system, other.

The utilities noted are in the vicinity, but most are not in the stream corridor.

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.

Signature

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.

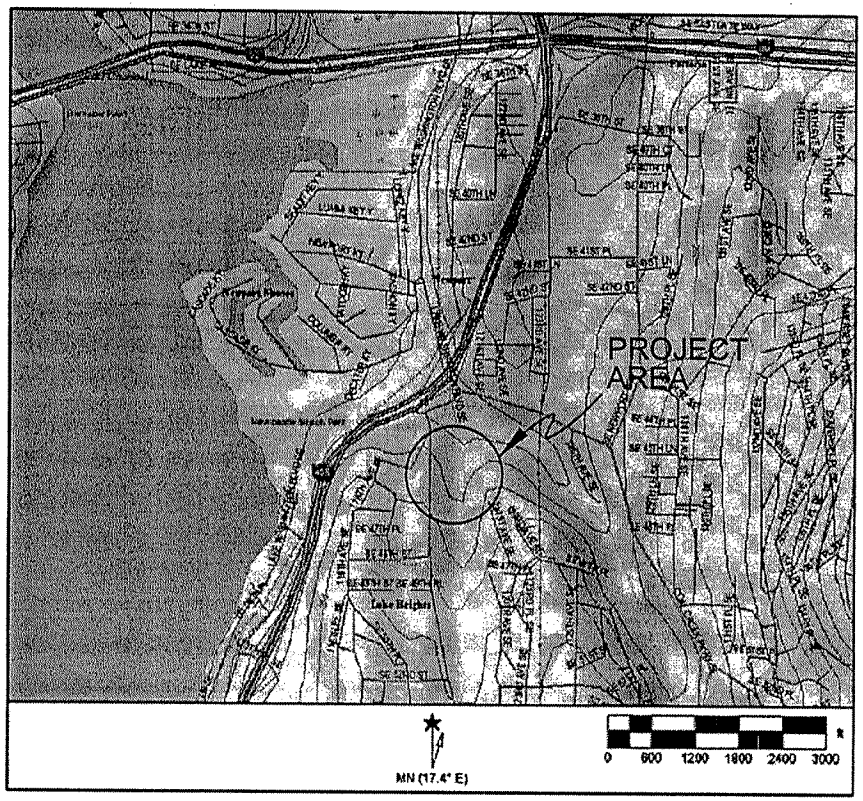
Signature Don Benson, AICP, ASLA

Date Submitted 4/11/03

6/9/03
7/22/03

NEWPORT CREEK STREAM STABILIZATION

VICINITY MAP:



CONTENTS:

VEGETATION NOTES:

SCENARIO	VEGETATIVE TREATMENT
NON-VEGETATED 45-60° SATURATED, UNSTABLE SLOPE	RED OSIER DOGWOOD FASCINES & LIVE STAKES, ONE GALLON ROOTED VINE MAPLE AND/OR STINK CURRANT.
SPARSELY VEGETATED 45-60° SATURATED, UNSTABLE SLOPE.	RED OSIER DOGWOOD FASCINES & LIVE STAKES, ONE GALLON ROOTED VINE MAPLE AND/OR STINK CURRANT.
NON-VEGETATED 0-45° SATURATED, UNSTABLE SLOPE OR WETLAND BENCH	PLANT W/ RED OSIER DOGWOOD, ONE GALLON ROOTED VINE MAPLE AND/OR STINK CURRANT, WESTERN RED CEDAR PLUGS, SKUNK CABBAGE, SLOUGH SEDGE.
SPARSELY TO DENSELY VEGETATED 0-45° SATURATED, UNSTABLE SLOPE OR WETLAND BENCH.	PLANT W/ RED OSIER DOGWOOD, ONE GALLON ROOTED VINE MAPLE AND/OR STINK CURRANT, WESTERN RED CEDAR PLUGS.
MODERATELY VEGETATED FLAT, STABLE BANK (DRIER/ MESIC).	PLANT W/ WESTERN RED CEDAR AND/OR HEMLOCK PLUGS.
OPEN CANOPY ADJACENT TO STREAM CHANNEL.	INSTALL 5-6' HIGH COTTONWOOD POLES. POSSIBLE WILLOW LIVE STAKES.

LOCATION:

TOWNSHIP: 24N
RANGE: 5E
SECTION: 16

LATITUDE: N47° 33.834'
LONGITUDE: W122° 10.749'

PROPOSED PLANT SPECIES:

WESTERN REDCEDAR (*THUJA PLICATA*).
WESTERN HEMLOCK (*TSUGA HETEROPHYLLA*)
BLACK COTTONWOOD (*POPULUS BALASAMIFERA*)
VINE MAPLE (*ACER CIRCINATUM*)
RED OSIER DOGWOOD (*CORNUS STOLONIFERA*)

WILLOW (*SALIX SP.*)
STINK CURRANT (*RIBES BRACTEOSUM*)
SKUNK CABBAGE (*LYSICHITON AMERICANUM*)
SLOUGH SEDGE (*CAREX OBNUPTA*)

Planting Density
Trees 6'-10' O.C.
shrubs 2' O.C.
Live Stakes 6"-1' O.C.

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TITLE, VICINITY MAP, LOCATION, AND NOTES

60% DESIGN

DSGN	A. Johnson
DR	N. Silverman
CHK	
APVD	M. Hrachovec

Natural Systems Design
P.O. Box 15609
Seattle, WA 98115

CITY OF BELLEVUE

NEWPORT CREEK STREAM STABILIZATION

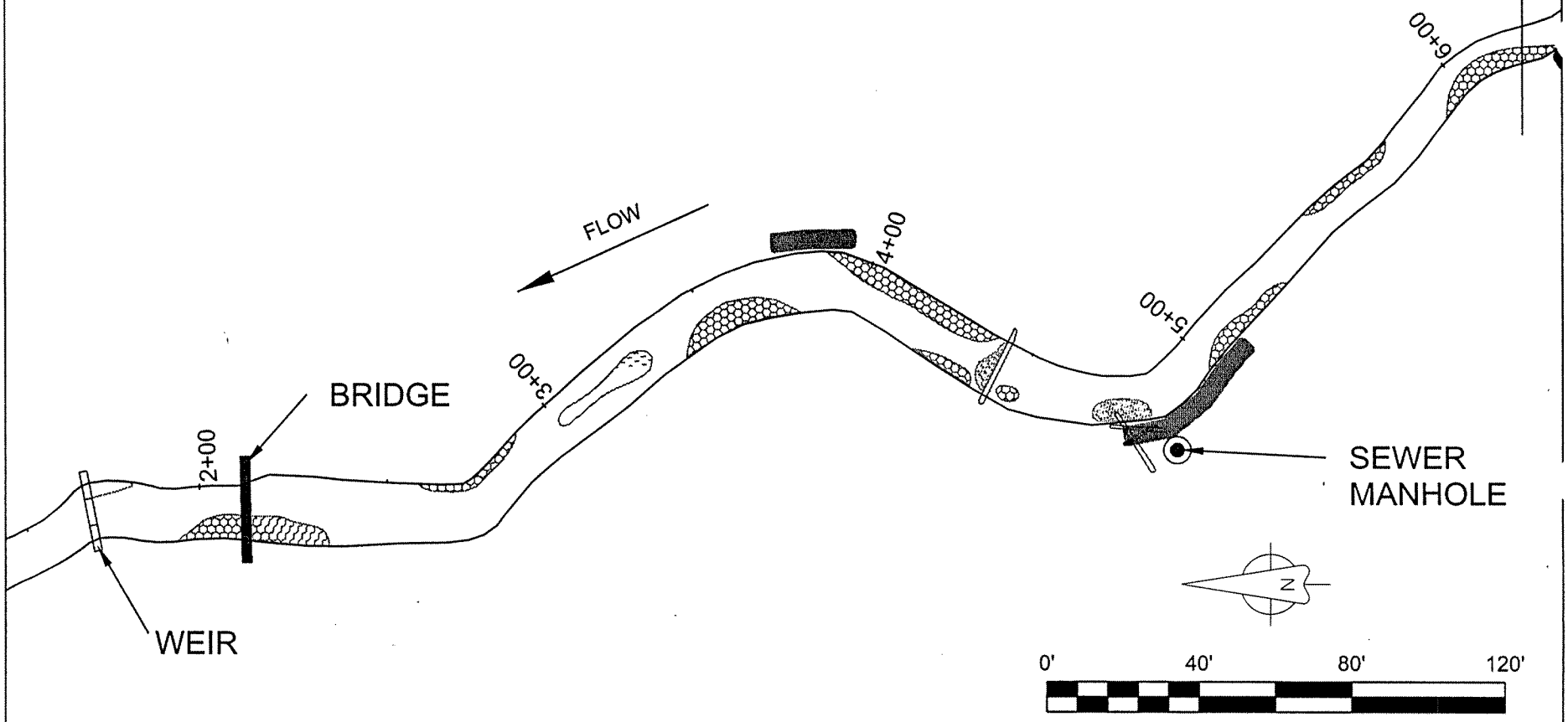
Sheet 1 of 14

Date May 2007

LEGEND:

- GRAVEL BAR
- POOL
- LOG(S)
- *HIGH BANK EROSION RISK
- *VERY HIGH BANK EROSION RISK
- *EXTREME BANK EROSION RISK

* FROM ROSGEN BANK EROSION HAZARD INDEX



EXISTING CONDITIONS

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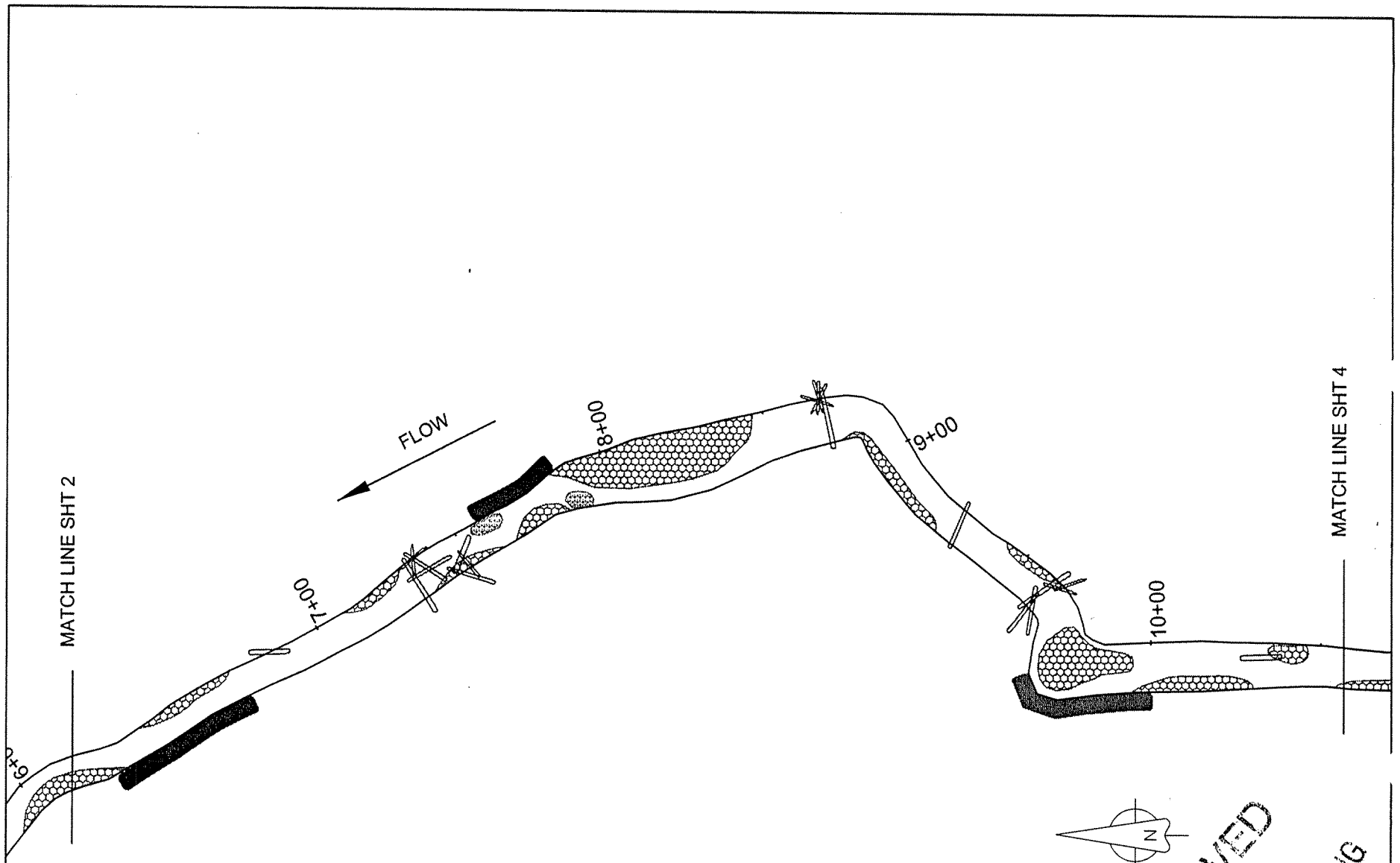

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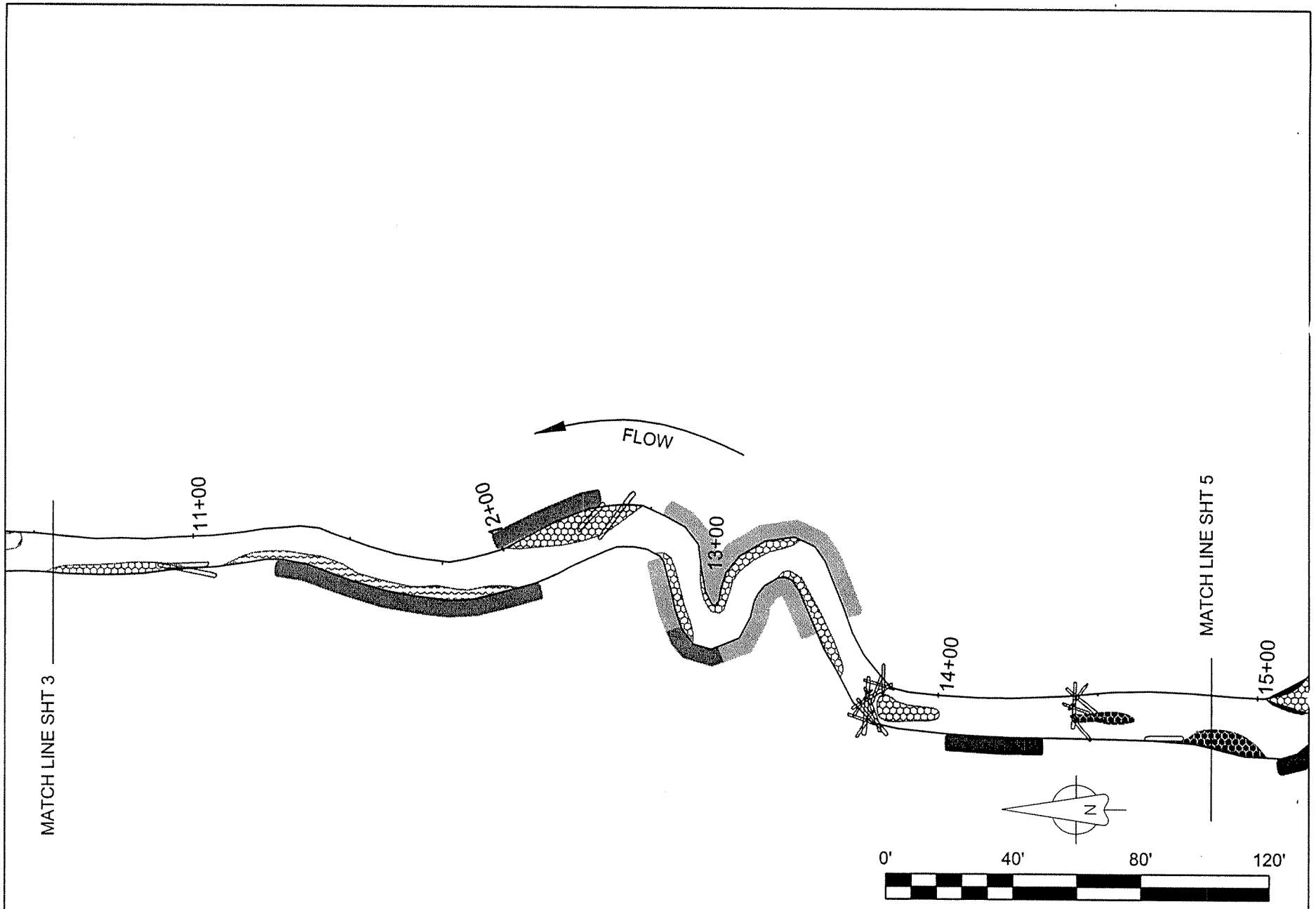

EXISTING CONDITIONS

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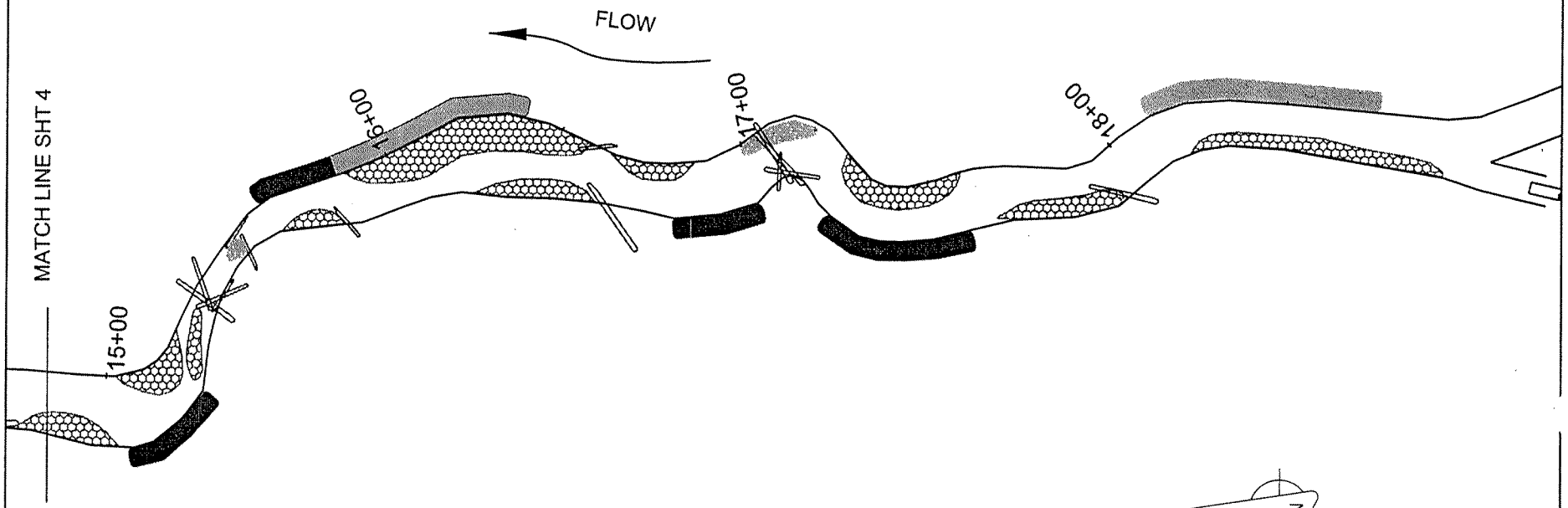

N

0' 40' 80' 120'

EXISTING CONDITIONS

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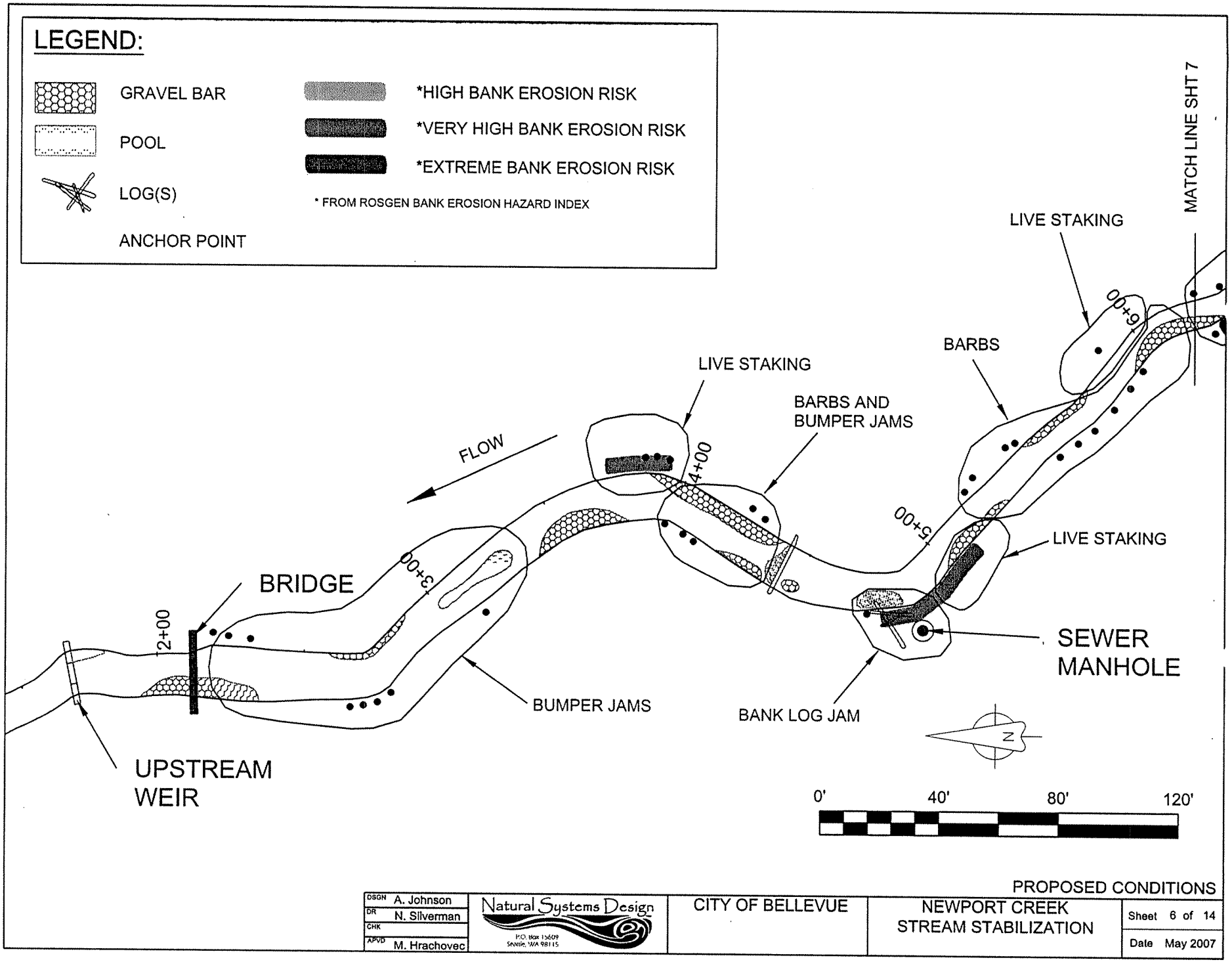

PROPOSED CONDITIONS

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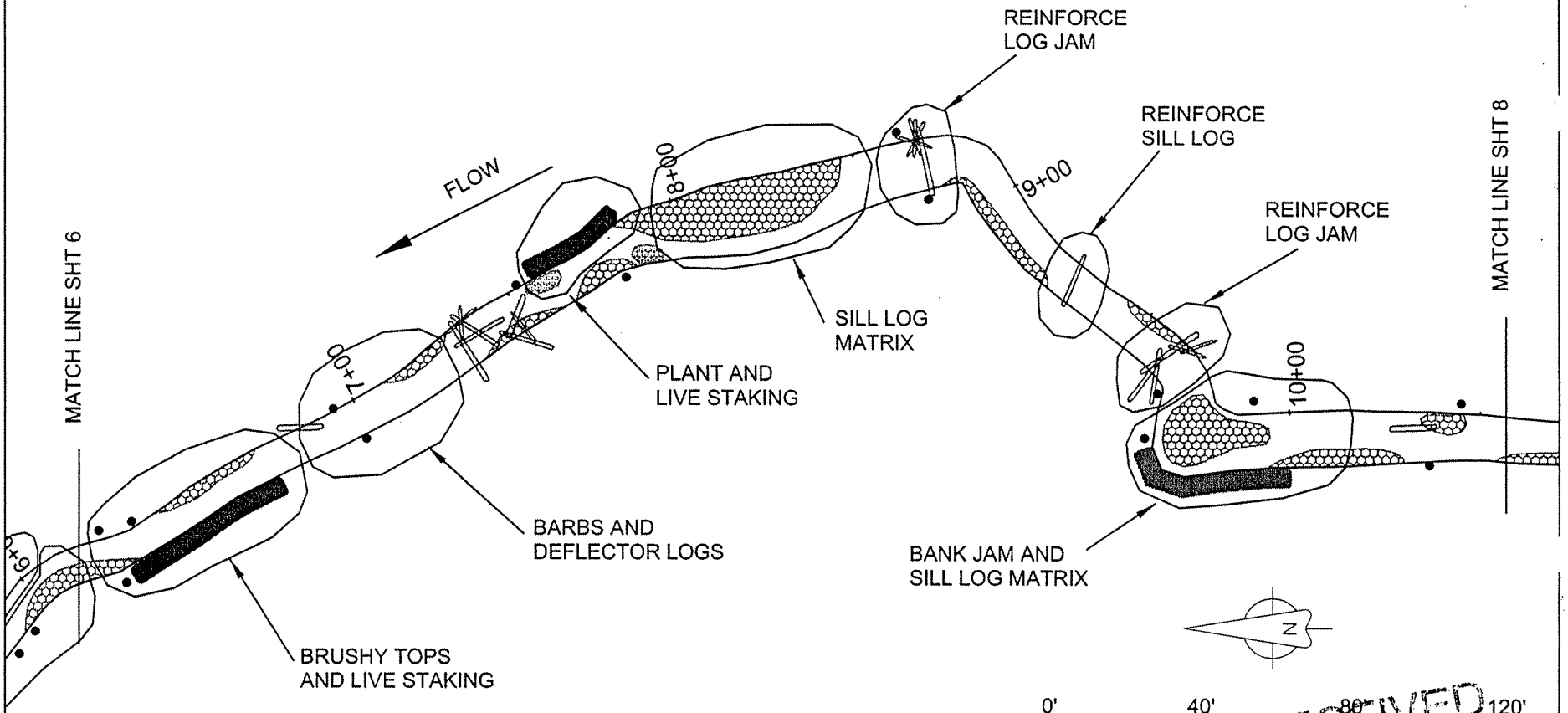

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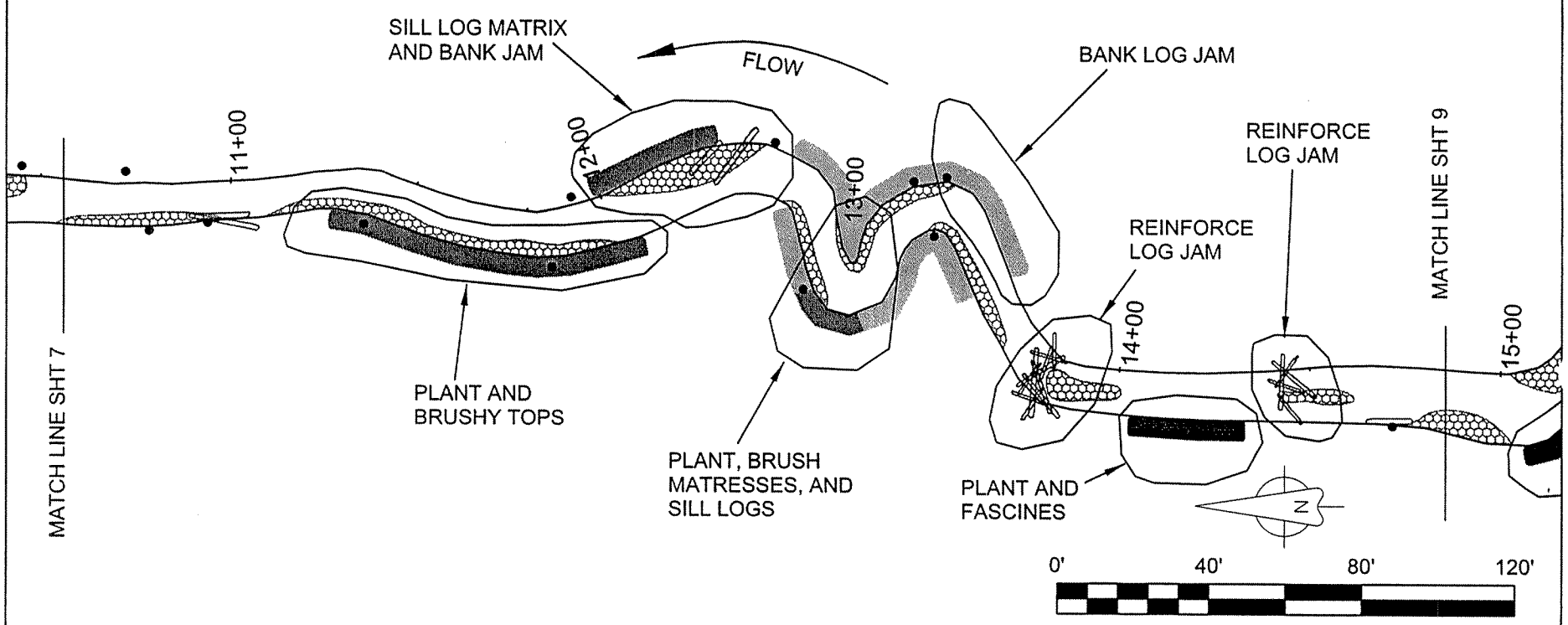

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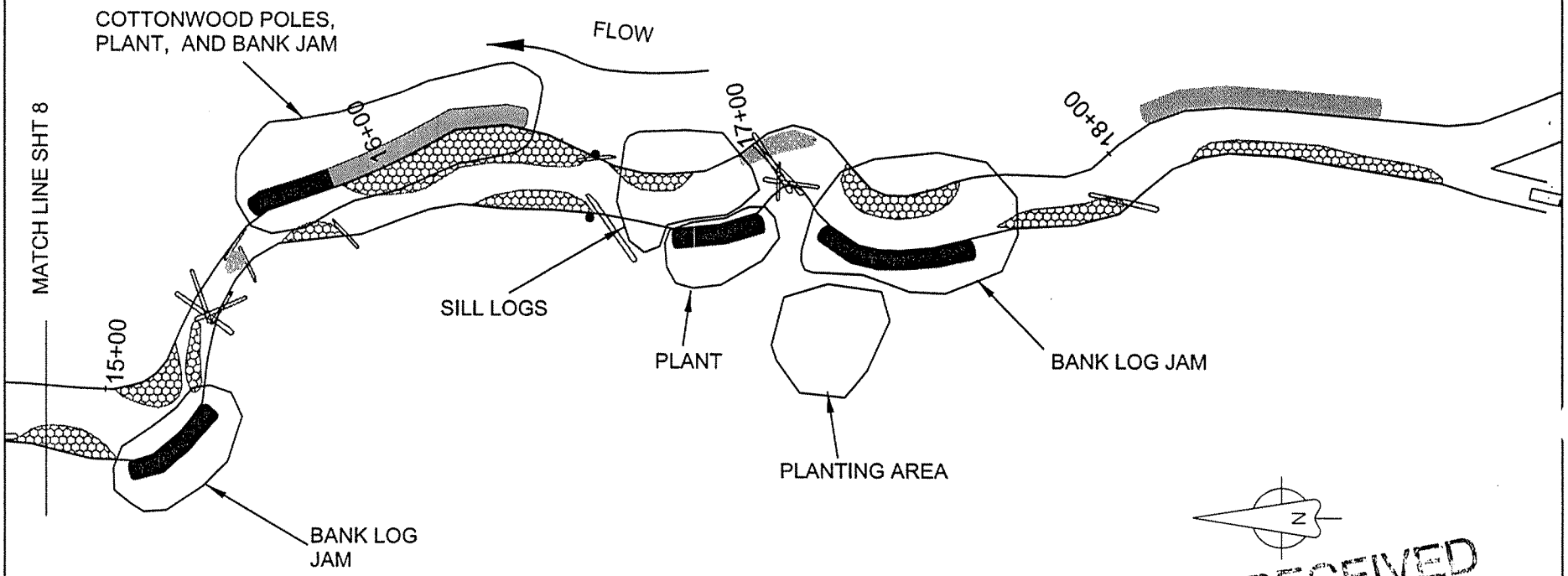

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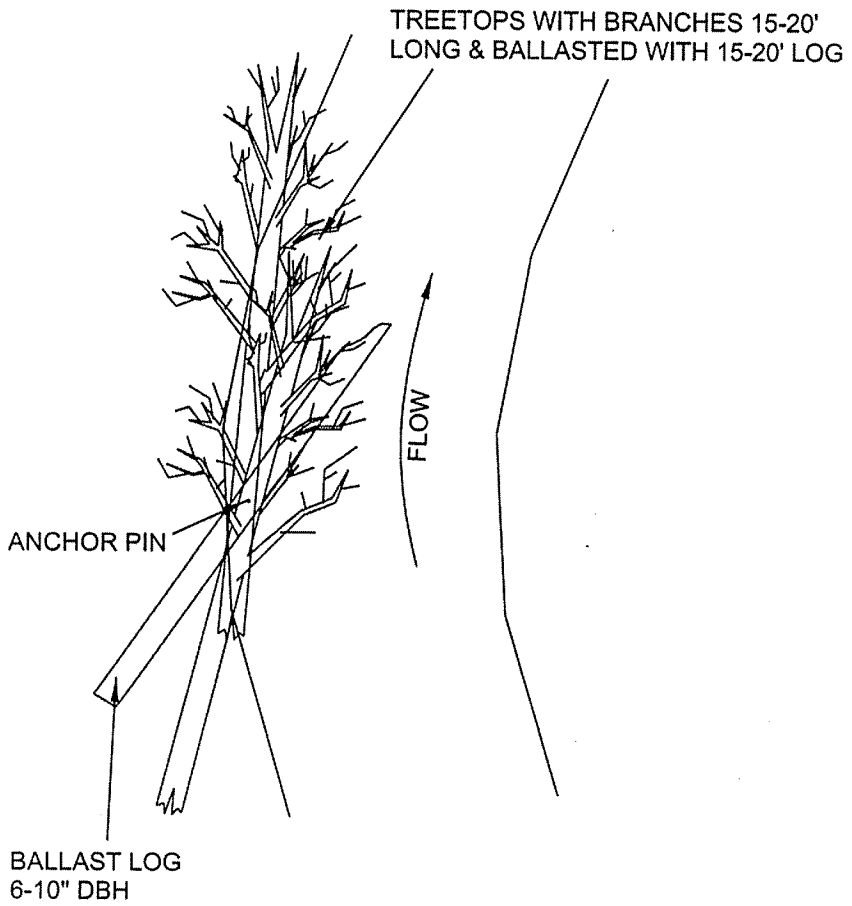
BRUSHY TOP PLANVIEW (TYP) -- NTS



BRUSHY TOP EXAMPLE

USE 6-10" DBH ALDER HARVESTED LOCALLY (MIN. 20' BACK FROM STREAM) AND REPLACED 5:1 WITH CONIFERS

BRUSHY TOP JAM DETAIL

60% DESIGN

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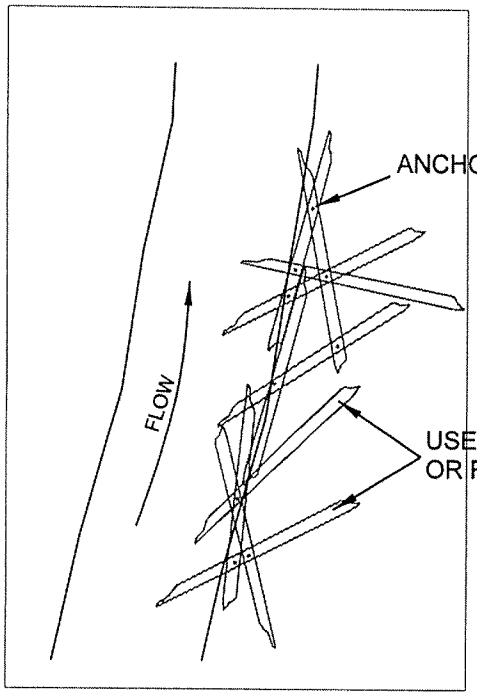
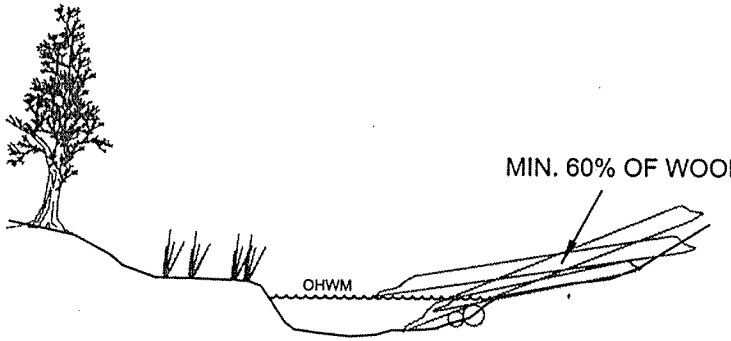
BANK JAM PLANVIEW (TYP) -- NTS



BANK JAM EXAMPLE

BANK JAM CROSS-SECTION (TYP) -- NTS



-- TYPICAL IN-STREAM LOGS WILL BE 15-20' LONG, 6-12" DBH, AND STABILIZED WITH PINS. LOGS WILL BE BRACED AGAINST EXISTING VEGETATION AS NEEDED FOR SUPPORT.

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BANK JAM DETAIL

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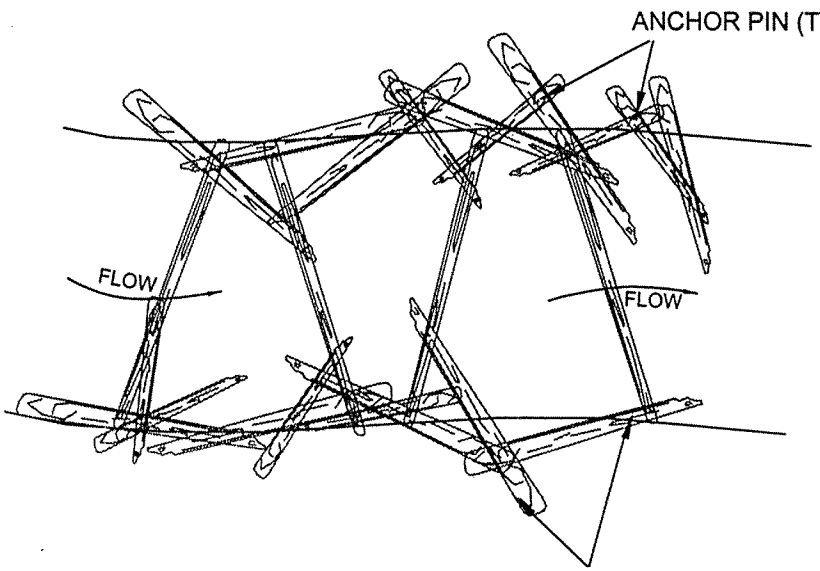
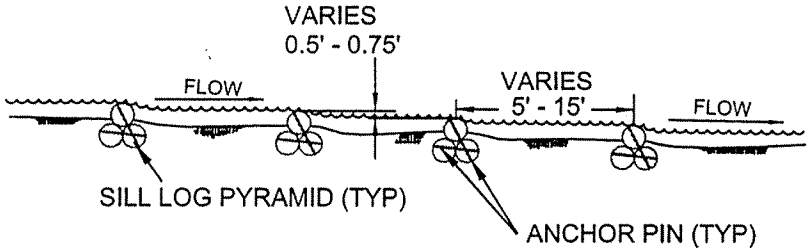
BED CONTROL MATRIX PLANVIEW (TYP) -- NTS



BED CONTROL MATRIX EXAMPLE

-- TYPICAL IN-STREAM LOGS WILL BE 15-20' LONG, 6-12" DBH, AND STABILIZED WITH PINS. LOGS WILL BE BRACED AGAINST EXISTING VEGETATION AS NEEDED FOR SUPPORT.

BED CONTROL MATRIX PROFILE (TYP) -- NTS



6-8" DBH LOGS
DIG INTO BED APPROX. 6"

BED CONTROL MATRIX DETAIL

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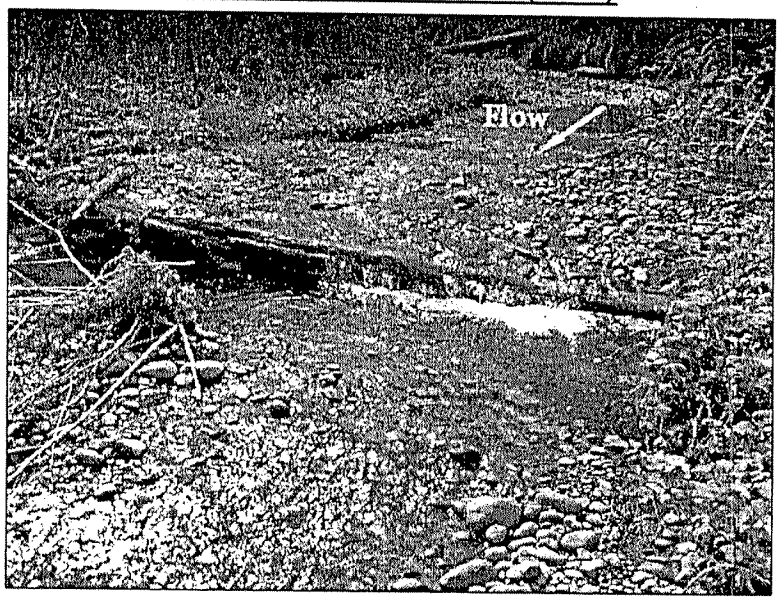
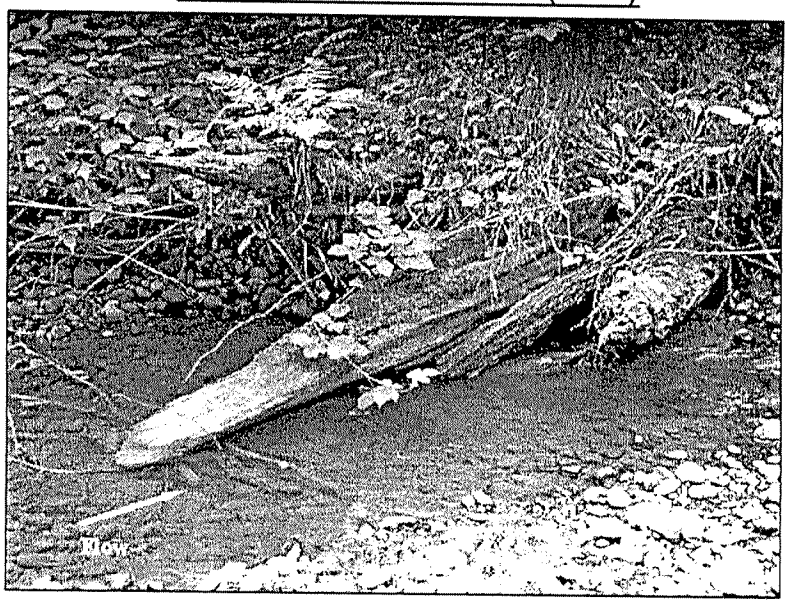
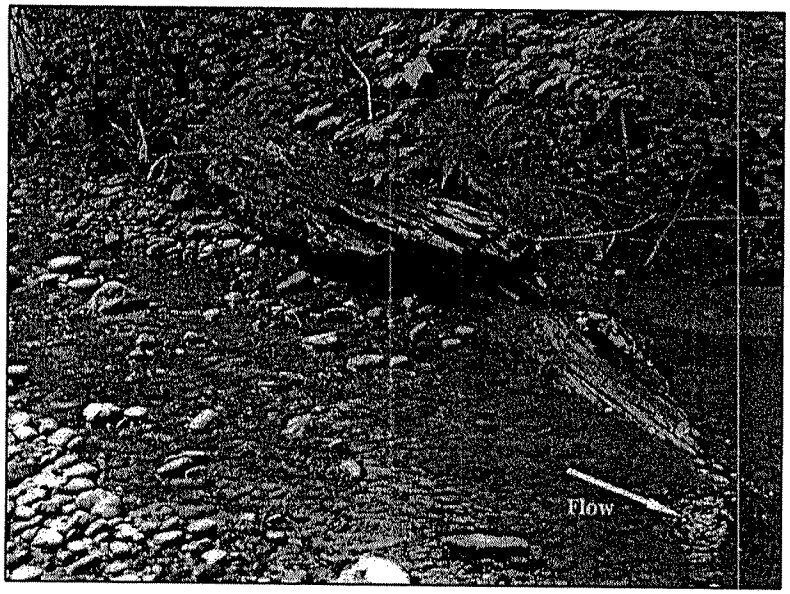
SILL LOG EXAMPLE (TYP)



BARB LOG EXAMPLE (TYP)



DEFLECTOR LOG EXAMPLE (TYP)



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SILL LOG, DEFLECTOR LOG AND BARB LOG DETAIL

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DR	N. Silverman
CHK	
APVD	M. Hrachovec

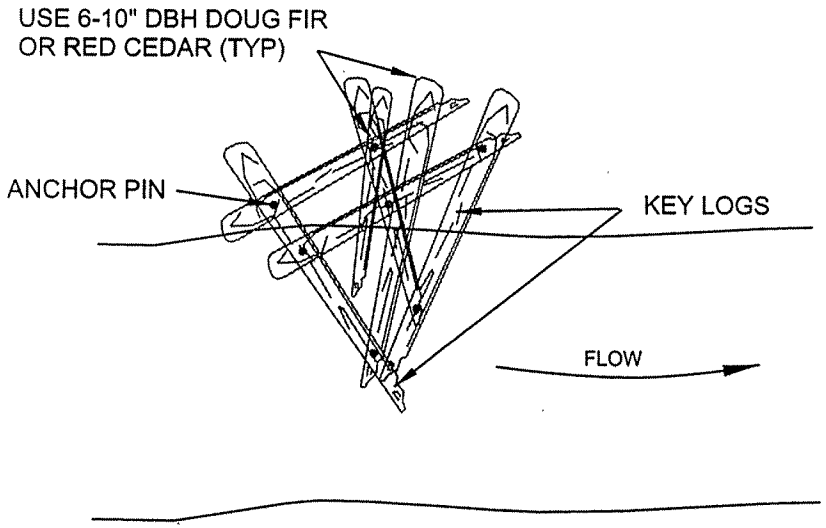
Natural Systems Design
P.O. Box 15609
Seattle, WA 98115

CITY OF BELLEVUE

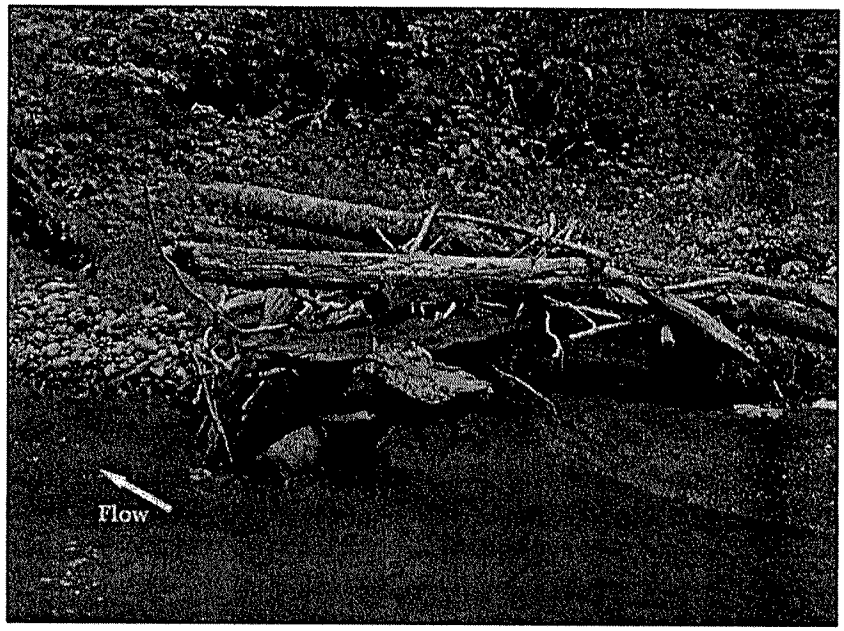
NEWPORT CREEK
STREAM STABILIZATION

Sheet 13 of 14
Date May 2007

BUMPER JAM PLANVIEW (TYP) -- NTS



BUMPER JAM EXAMPLE



-- TYPICAL IN-STREAM LOGS WILL BE 15-20' LONG, 6-12" DBH, AND STABILIZED WITH PINS. LOGS WILL BE BRACED AGAINST EXISTING VEGETATION AS NEEDED FOR SUPPORT.

BUMPER JAM DETAILS

60% DESIGN

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