



**State of Washington
DEPARTMENT OF FISH AND WILDLIFE**

Mailing Address: 600 Capitol Way N, Olympia, Washington 98501-1091 - (360) 902-2200

**ENVIRONMENTAL CHECKLIST
(WAC 197-11-960)**

A. BACKGROUND

1. **Name of proposed project, if applicable:** *Nemah Hatchery Collection Rack*

2. **Name of Applicant:** Washington Department of Fish and Wildlife

3. **Address and phone number of applicant and contact person:**

Washington Dept of Fish and Wildlife
Capitol Programs & Engineering Division
600 Capitol Way North
Olympia, WA 98501-1091

Contact Person: Marty Peoples
Fish and Wildlife Biologist
Telephone Number: (360) 902-8426
Fax Number: (360) 902-8367
E-Mail: peoplmdp@dfw.wa.gov

4. **Date checklist prepared:** May 14, 2008

5. **Agency requesting checklist:** Washington Department of Fish and Wildlife.

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

July and August 2008.

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

No.

8. **List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal:** No information has been prepared.

9. **Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.**

None are pending.

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

Pacific County Shoreline Exemption Permit, and Washington Dept. of Fish & Wildlife HPA.

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.

This project consists of repair an adult salmon collection rack that was damaged during the storm and flood events in December 2007 at the Nemah Salmon Hatchery. A large spruce tree fell across the structure and damaged the rack. High waters also scoured a hole in front of the rack base, which compromises the rack integrity. The proposed work to be done includes:

1. Replace and repair damaged components of the rack including wood pickets, deck planks, beams and structural members.
2. Reinforce base of rack with 3 cubic yards of quarry spalls to prevent further damage.
3. Remove sediment build-up blocking the south end of the collection rack. Approximately 10 cy of accumulated sediment will be removed and disposed at an approved landfill.

- 12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including 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.**

The proposed site is at the Nemah State Salmon Hatchery. The site is reached by turning east off of Highway 101 onto North Nemah Road, and proceeding 2.7 miles to the Hatchery access where the bridge is located spanning North Nemah River. The physical address is 415 North Nemah Road East, South Bend, WA, 98586, Pacific County, Section 19, Township 12 North, Range 9 West.

B. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site (underline one): flat, rolling, hilly, steep slopes, mountainous, other _____.**

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

20% slope located on the south side of river.

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

Soils in the vicinity are classified as Grehalem silt loam.

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.** No.

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

No grading or filling will be done.

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

No.

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

There will be no increase in impervious surfaces.

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

No erosion impacts resulting from the rack repair are anticipated. Sediment removal will be performed out of water and will be isolated from the stream by sandbags to prevent erosion.

2. Air

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

Low levels of vehicle exhaust emissions and dust from construction activities are expected during project activities. No long-term effects in air quality are anticipated to result from the completed 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:** None.

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 or wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

The North Fork of the Nemah River is a year round stream which flows through the collection rack. The North Nemah River a tributary of the Nemah River.

- 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, rack component replacement will occur directly over the river (see attached 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.**

3 cubic yards of quarry spalls will be placed at the base of the rack. This material will be acquired from an approved local quarry.

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

Yes. One half of the stream channel in the area directly above the rack will have water temporarily diverted to the other side of the river. This will allow access to the lower parts of the rack. Sandbags will be used for this diversion. Water quantities during late July and early August in this section of river are very low, at an estimated 1-2 cfs. This extreme low flow is due to the

hatchery intake above the rack, which draws most of the water out of the river for hatchery operations. This water is returned to the river below the collection rack causing the project area to experience minimal water flows.

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
Yes.
- 6) Does the proposal involve any discharges of waste material 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 purpose, and approximate quantities, if known. 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.

No waste material will be discharged.

c. Water Runoff (including storm water):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (including quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Rainfall will pass through voids in the rack deck and will not create runoff.

- 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:

None.

4. PLANTS

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

deciduous tree: alder, maple, aspen, other

evergreen tree: fir, cedar, pine, spruce, other;

shrubs

grass

pasture

crop or grain

wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other

water plants: waterlily, eelgrass, milfoil, other

___ other types of vegetation

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

No vegetation will be removed.

c. List threatened and endangered species [of plants] 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: None.

5. ANIMALS

a. Underline any birds or animals, which have been observed on or near the site or are known to be on or near the site:

Birds: hawk, heron, eagle, songbirds, **other:** common merganser.

Mammals: deer, bear, elk, beaver, **other:**

Fish: bass, salmon, trout, herring, shellfish, **other:** cutthroat trout.

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

Marbled Murrelets.

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

Chinook Salmon, Coho salmon and Steelhead trout pass through this section of North Nemah River to return to the hatchery or go upstream to spawn naturally as adults. Juvenile salmonid species also migrate downstream through this location.

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

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 needs? Describe whether it will be used for heating, manufacturing, etc. None.

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

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

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.

1) **Describe special emergency services that might be required. None.**

2) Proposed measures to reduce or control environmental health hazards, if any: None.

b. Noise

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

3) 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.

Increased levels of noise during construction activities are expected from this project. Hours of increased noise levels will be 8 am to 5 pm. No change in noise levels is expected from the completed project.

3) Proposed measures to reduce or control noise impacts, if any: None.

8. LAND AND SHORELINE USE

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

This site is used as a hatchery facility for salmon and steelhead.

b. Has the site been used for agriculture? If so describe? No.

c. Describe any structures on the site.

This site has a bridge, a hatchery building, two residences, an intake/pump house and numerous rearing ponds.

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

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

Transitional Forest.

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

Transitional Forest.

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

Conservancy.

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

No.

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:

No change in land use is proposed.

9. HOUSING

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

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

An existing wood deck extends four feet above the average water level, but is below the stream bank height. The rack is made of metal and 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: *None.*

11. LIGHT AND GLARE

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

The rack is made of wood and will not produce glare.

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

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

There are fishing opportunities at this site. There are also salmon viewing opportunities available at the hatchery.

- 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 recreational 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.**

None are known.

- b. **Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site. *None are known.***

- c. **Proposed measures to reduce or control impacts, if any: *None.***

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.**

North Nemah Road and U.S. Highway 101 serves this site..

- b. **Is site currently served by public transit? If no, what is the approximate distance to the nearest transit stop?**

No. The nearest public transit stop is in Naselle, approximately 20 miles away.

- 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.**

The project will occur over the North Nemah River.

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

No change in vehicle trips will occur.

- g. **Proposed measures to reduce or control transportation impacts, if any: *None.***

15. PUBLIC SERVICES

- a. **Would the project result in an increased need for 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.*

16. UTILITIES

a. Underline utilities currently available at the site: Electricity, Natural Gas, Water, Refuse Service, Telephone, Sanitary Sewer, Septic System, Other.

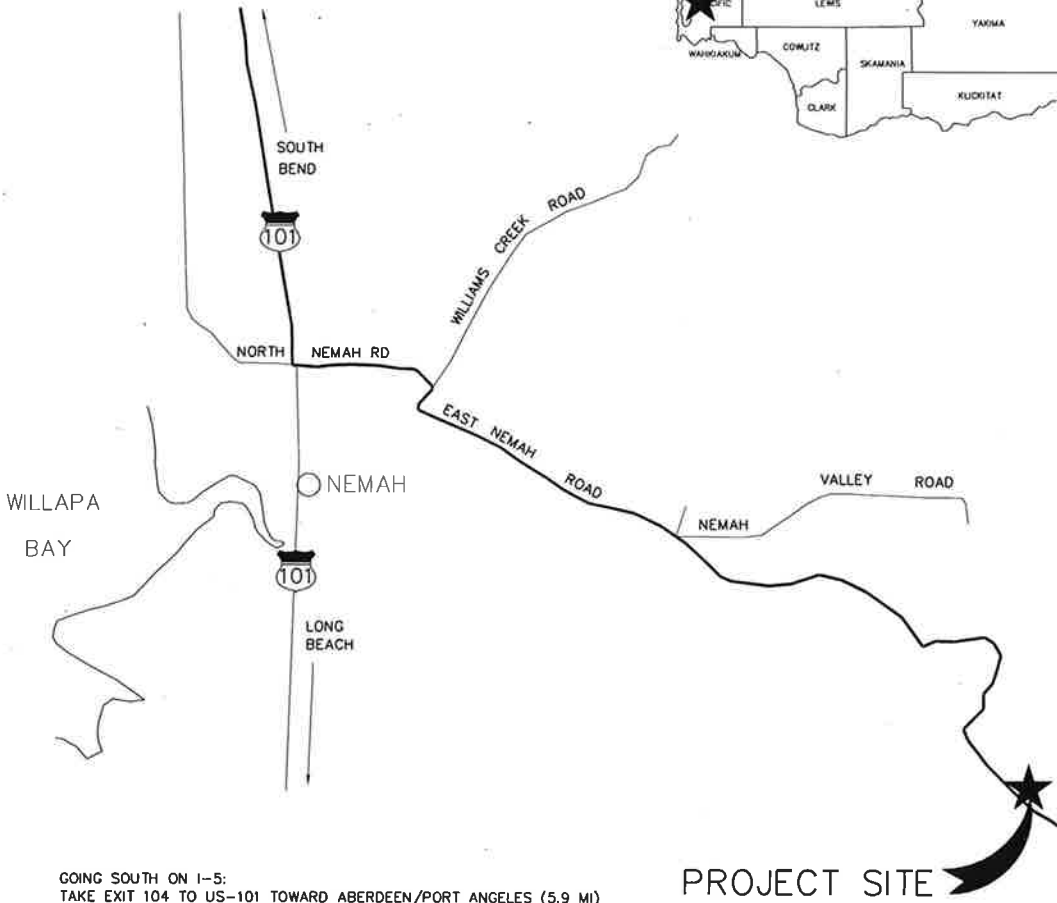
b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity, which might be needed.

No utilities will be added or changed from this project.

C. 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: *Marty Peoples* DATE SUBMITTED: *5/23/08*



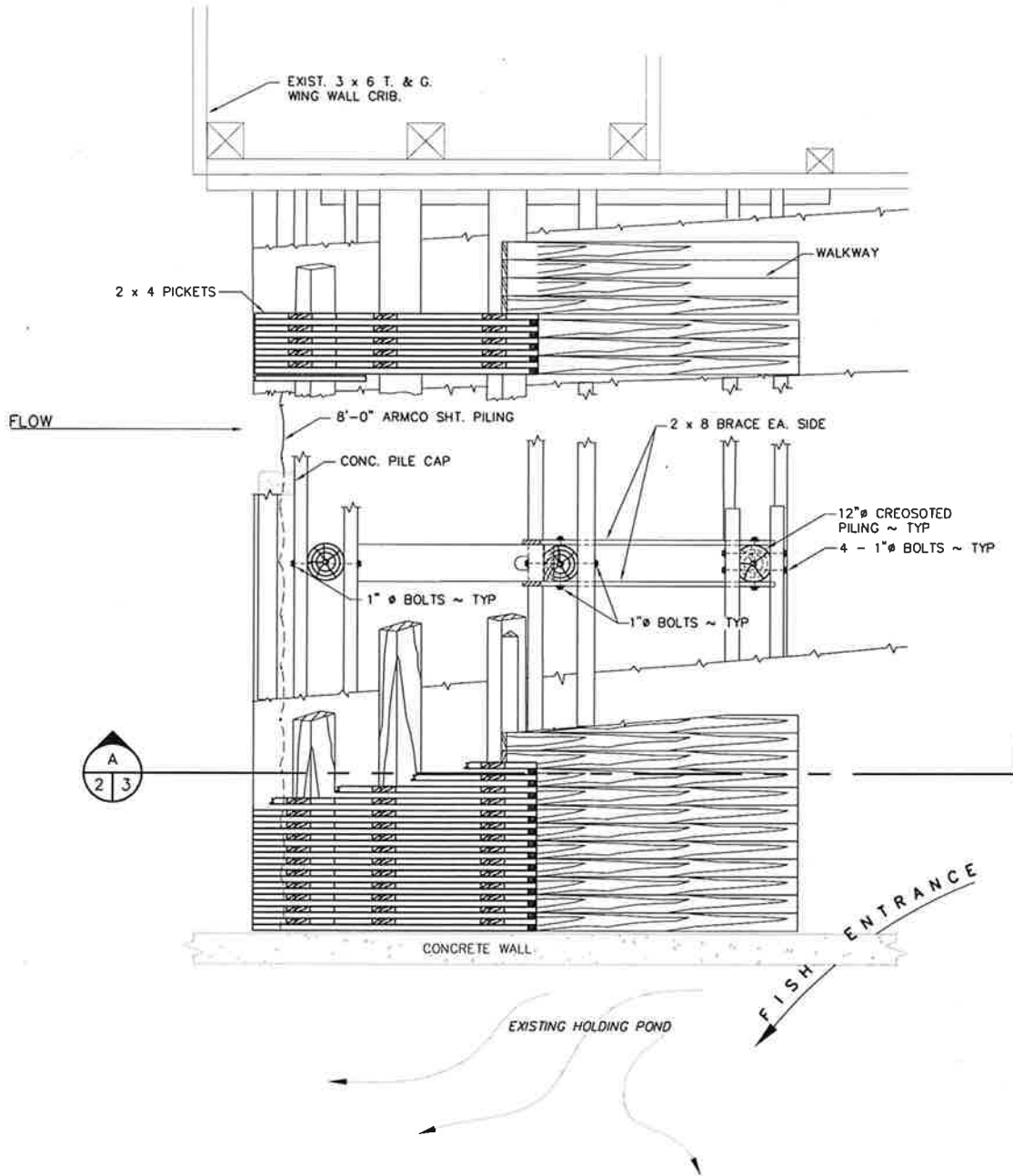
GOING SOUTH ON I-5:
 TAKE EXIT 104 TO US-101 TOWARD ABERDEEN/PORT ANGELES (5.9 MI)
 KEEP LEFT ONTO SR-B WEST (21.0 MI)
 ROAD NAME CHANGES TO SR-12 WEST (10 MI)
 TAKE RAMP RIGHT FOR JCT WA-107 TOWARD MONTESANO/RAYMOND (0.3 MI)
 TURN LEFT ONTO S MAIN ST (8.0 MI)
 TURN LEFT ONTO US-101 (40 MI)
 TURN LEFT ONTO N. NEMAH ROAD
 NEMAH HATCHERY IS APPROX. 2.5 MI.

PROJECT SITE

NEMAH HATCHERY

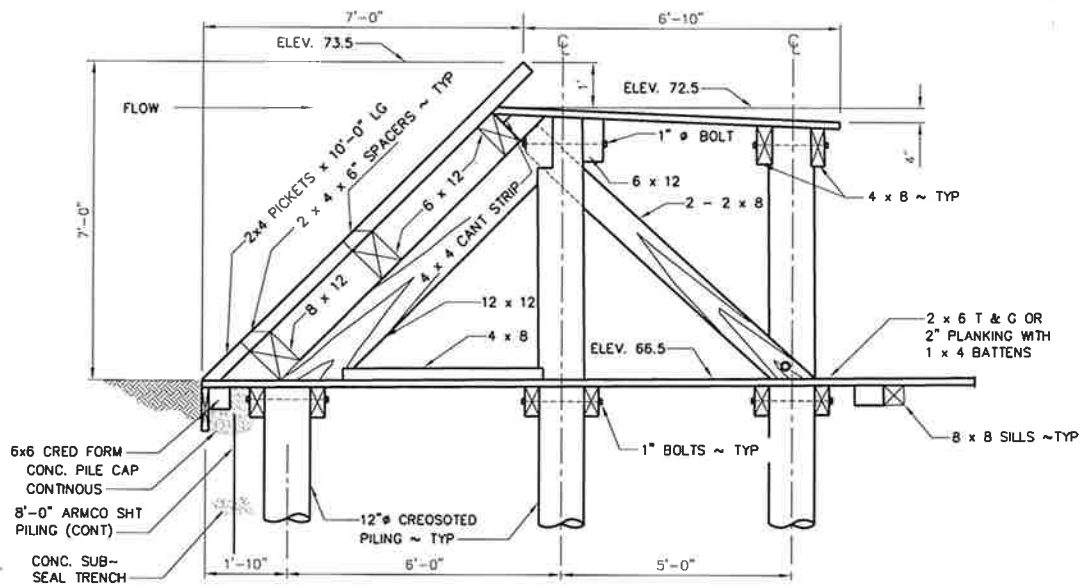
NOT TO SCALE

PURPOSE: REPAIR FISH RACK MAINTENANCE	WASHINGTON DEPT. of FISH & WILDLIFE 600 CAPITOL WAY N. OLYMPIA, WA 98501-1091	PROPOSED: VICINITY MAP
DATUM: ASSUMED ADJACENT PROPERTY OWNER: 1. _____ 2. _____ ENG. PROJECT NO. PC:H25:08-1	REFERENCE NO. _____ SITE: NEMAH HATCHERY ADDRESS: NEMAH	IN: NEMAH RIVER NEAR: WILLAPA BAY COUNTY OF: PACIFIC COUNTY STATE: WA PORTION OF: SEC. 19, T. 12N, R. 9W DATE: 05/22/2008 SHEET 1 OF 3



PLAN VIEW
NOT TO SCALE

REFERENCE NO. _____
APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE
NEMAH HATCHERY FISH BARRIER PLAN VIEW
AT: <u>NEMAH</u> _____, WASHINGTON
DATE: <u>05/23/2008</u> SHEET <u>2</u> OF <u>3</u>



PROJECT WILL REPLACE:

1. 100% OF PICKETTS
2. 10% OF 12 x 12 TIMBERS
3. 90% OF WALKWAY
4. 75% OF HORIZONTAL BRACING

SECTION
NOT TO SCALE



REFERENCE NO. _____
APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE
NEMAH HATCHERY FISH BARRIER EXISTING RACK
AT: <u>NEMAH</u> , WASHINGTON
DATE: <u>05/23/2008</u> SHEET <u>3</u> OF <u>3</u>