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

1. Name of proposed project, if applicable:

   Chiwawa Loop Road Improvement Project – Phase III, CRP 675

2. Name of applicant:

   Chelan County Public Works Department

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

Chelan County Public Works Department
Attn: Jason Detamore, Environmental Manager
316 Washington Street, Suite 402
Wenatchee, WA 98801

4. Date checklist prepared:

June 2015

5. Agency requesting checklist:

Chelan County Public Works Department

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

Spring 2017

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

No future additions, expansion, or further activity related to or connected with this project. Chelan County will continue to provide road maintenance in this area.

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

JARPA (Hydraulic Project Approval, Section 401 and 404 permits)
Section 106 (cultural resource investigation)
Section 7 – Endangered Species Act consultation – Biological Assessment
Section 7 NMFS Biological Opinion
Section 7 USFWS Biological Assessment concurrence
WSDOT NEPA Environmental Classification Summary
Wetland delineation report and mitigation plan
Forest Practices Act/Notification
Construction Stormwater General Permit
Stormwater Pollution Prevention Plan (SWPPP)
Critical area variances (wetland, riparian, shoreline)
Spill prevention plan

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.

At this time, no other applications are pending for approvals of other proposal directly affecting the proposed project.

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

Refer to Question #8 above.

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.)

The proposed project is located along Chiwawa Loop Road between mile post 3.10 (Wending Lane) and 4.58 (Sumac Lane), in Sections 31 & 32, Township 27 North, Range 18 East W.M., Chelan County, Washington. The proposed project will address a deteriorating pavement and roadway base by upgrading the structural integrity. In addition to a new roadway base and surfacing, this project will also widen the road from 22 feet to 30 feet, add drainage improvements, replacement/addition of guardrail, replace a fish barrier culvert with a bridge at Clear Creek, improve roadway geometrics, make improvements to the roadside and clear zone (including tree removal), and retrofit an early 1900's irrigation flume.

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.

The proposed project is located along Chiwawa Loop Road between mile post 3.10 (Wending Lane) and 4.58 (Sumac Lane), in Sections 31 & 32, Township 27 North, Range 18 East W.M., Chelan County, Washington. See attached vicinity map.

B. ENVIRONMENTAL ELEMENTS

1. Earth

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)?

According to the soil survey, the steepest slope is approximately 45 percent.

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.

Chiwawa Gravelly Fine Sandy Loam, 0 to 3 percent slope, All areas are prime farmland*
Peoh Silt Loam
Big Creek Cindery Sandy Loam, 0 to 8 percent slope
Nard Silt Loam, 25 to 45 percent slope
Terrace Escarpments
Goddard Cobbly Fine Sandy Loam, 0 to 8 percent slope
Natapoc Stony Sandy Loam, 3 to 30 percent slope

*According to the USDA, Chiwawa Gravelly Fine Sandy Loam is labeled as "All areas are prime farmland". The location of this soil is near Wending Lane and may be altered as a result of this roadway improvement project.

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

According to the Chelan County GIS database, the Nard Silt Loam (25 to 45 percent slopes) soil complex is considered a geohazard. Runoff is rapid, and the water erosion is high. However, in this location, the Public Works Department are not aware of any reports of erosion or problematic slides.

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.

Approximately 10,000 cubic yards of soil will need to be excavated and 6,000 cubic yards of fill will be required for construction of this project. The vast majority of fill material utilized will be found onsite. Any offsite material utilized will be required to meet project specifications (which will include no noxious weeds).

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

Yes, erosion could occur as a result of clearing, grading, or other construction activities. Temporary erosion and sediment control (TESC) measures and best management practices (BMPs) will be employed and inspected during and after construction in accordance with Department of Ecology standards.

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

Existing impervious surface: 4.7 acres
Proposed impervious surface: 5.9 acres
Net new impervious surface resulting from the project: 1.2 acres

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

Erosion and sedimentation will be controlled through the implementation of BMPs and TESC measures utilizing the Department of Ecology's *Stormwater Management Manual for Eastern Washington* and WSDOT's *Highway Runoff Manual* as guidance. A Stormwater Pollution Prevention Plan (SWPPP) will discuss appropriate means to reduce and control potential erosion impacts before, during, and after construction. The SWPPP will be created before the project is initiated and adequate BMPs and TESCs will be in place before earthwork begins. Alterations of the SWPPP over the duration of the project may be required to eliminate any potential erosion impacts.

Proposed BMPs and TESC may include, but not limited to, silt fencing, straw wattles, rock check dams, erosion control blankets, stabilized culvert outfalls, culvert inlet protection, and high visibility fencing.

2. Air

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.

Minor dust, internal combustion engine emissions, and odors typical of diesel equipment will be in the air during construction. All air emissions will be short-term and no permanent emission sources will be created by this project.

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

None known.

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

BMPs will be implemented during construction activities to reduce and control air emissions. These practices may include watering exposed soils, sweeping street surfaces, minimizing exposed areas, using rock base course when/where feasible, and using construction machinery equipped with standard mufflers.

3. **Water**

a. Surface Water:

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.

Water Body Name	Tributary To	Stream Type
Clear Creek	Wenatchee River	Type F [1]
Chiwawa River	Wenatchee River	Type S [2]

[1] Fish bearing
[2] Shoreline of the State

Two wetlands (Wetland A and B) were identified and delineated within 25 feet of Chiwawa Loop Road project corridor. Details on the location and category of each wetland can be found in the Chiwawa Loop Road Wetland Delineation Report dated September 2014. This report can be viewed on Chelan County's webpage at: Physical features such as driveways, Chiwawa Loop Road itself

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 proposed roadway improvement project will require work over, in, and adjacent to Clear Creek and the Chiwawa River. Clear Creek crosses under the roadway in a 24-inch concrete culvert, while the Chiwawa River is crossed over via a bridge. The proposed project will improve fish passage by removing the Clear Creek culvert and installing a 4-sided box culvert (ie bridge) in its place. The bridge deck over Chiwawa River will not be improved, as the concrete deck is satisfactory at this time. However, minor maintenance work will occur on this bridge, such as drainage improvements and guardrail work. No in-water work is proposed in the Chiwawa River.

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 400 square feet of wetland may need to be filled in order to complete the Chiwawa Loop Road Improvement Project. The county has investigated ways to avoid these wetlands and determined through the roadway design process that complete avoidance is not feasible. Instead, the county has minimized the total amount of wetland impacts resulting from this project by utilizing uplands areas.

Fill will be from onsite material that has been excavated elsewhere.

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

In order to remove and replace the Clear Creek culvert, the creek will need to be diverted around the project area to allow for a dry work area. Once the creek is diverted, the culvert will be removed and replaced with a 4-sided box culvert allowing for fish passage. The existing creek channel will then be restored to natural conditions by placing clean, washed streambed material in the channel. The creek will then be allowed back into its existing channel. Creek side slopes will be revegetated, as necessary.

All proposed in-water activities will be done during allowable in-water work window (typical low-flow) to minimize any long-term impacts to the water body.

For dust suppression, it will be up to the contractor where water is obtained. No surface water withdrawals will be allowed, and if permits are required, will be up to the contractor to obtain those necessary permits.

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

According to the county's GIS database, within the project area the Chiwawa River does have an identified 100-year floodplain. However, no in-water work or work within the floodplain is proposed.

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, the project does not involve any discharges of waste materials to surface waters.

b. Ground Water:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No, the project does not propose to withdraw groundwater from a well. For dust suppression, it will be up to the contractor where water is obtained. If permit(s) are required, it will be up to the contractor to obtain those necessary permits.

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 materials are proposed to be discharged into the ground from septic tanks or other sources.

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.

As a result of the roadway increasing in width (22 to 30 feet), stormwater quantities will also increase. Because of this additional runoff, structural BMPs (bioswale, detention

pond, etc.) are proposed as part of this project. The analysis and design of these systems are based upon the WSDOT *Highway Runoff Manual*.

Stormwater conveyance will remain similar to the existing conveyance, where roadside ditches and culverts will be utilized.

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

No, however there is an unlikely possibility that a fuel spill, hydraulic leak, or other hazardous problems could occur from construction machinery and enter ground and/or surface water. A spill control plan will be required by the contractor to address this unlikely possibility and a spill cleanup kit will be onsite at all times.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

As part of the county's design process, maintaining existing drainage patterns are analyzed and accounted for in the roadway improvement project.

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

The county will utilize structural BMPs (biofiltration swales, detention ponds, etc.) and dispersion methods to manage stormwater runoff resulting from Chiwawa Loop Road improvement project. Other BMPs/TESCs measures that may be implemented are outlined below:

Project Related Best Management Practices Applicable to All Project Action(s)

1	A TESC Plan will be developed and implemented for all projects requiring clearing, vegetation removal, grading, ditching, filling, embankment compaction, or excavation. The BMPs in the plans will be used to control sediments from all vegetation removal or ground disturbing activities.
2	Only vegetation that is a necessity for the project to be constructed will be removed. Delineate clearing limits with orange barrier fencing wherever clearing is proposed in or adjacent to a stream/wetland.
3	Erosion control blankets may be installed on steep slopes that are susceptible to erosion and where ground-disturbing activities have occurred. This will prevent erosion and assist with establishment of native vegetation.
4	The contractor will designate at least one employee as the Erosion and Spill Control (ESC) lead. The ESC lead will be responsible for the installation and monitoring of erosion control measures and maintaining spill containment and control equipment. The ESC lead will also be responsible for ensuring compliance with all local, state, and federal erosion and sediment control requirements.
5	Inspect all temporary and permanent erosion and sedimentation control measures on a regular basis. Maintain and repair to assure continued performance of their intended function. Inspect silt fences immediately after each rainfall, and at least daily during prolonged rainfall. Remove sediment as it collects behind the silt fences and prior to their final removal.
6	Where practicable for soil stability, native vegetation and or a native seed mixture will be planted in areas disturbed by construction activities.
7	If equipment use within the wetted perimeter is permitted, the following provisions shall apply: • Equipment shall be thoroughly cleaned of mud, petroleum products, or other deleterious material. • Turning and spinning within the streambed shall be avoided. • The streambed shall be returned to pre-project condition prior to project completion.

8	The contractor shall prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan prior to beginning construction. The SPCC Plan shall identify the appropriate spill containment materials, which will be available at the project site at all times.
9	All equipment to be used for construction activities shall be cleaned and inspected prior to arriving at the project site, to ensure no potentially hazardous materials are exposed, no leaks are present, and the equipment is functioning properly.
10	Construction equipment will be inspected daily to ensure there are no leaks of hydraulic fluids, fuel, lubricants, or other petroleum products. Should a leak be detected on heavy equipment used for the project, the equipment shall be immediately removed from the area and not used again until adequately repaired.
11	Project staging and material storage areas shall be located a minimum of 150 feet from perennial surface waters, in currently developed areas such as parking lots or managed fields.
12	Material that may be temporarily stored for use in project activities may be covered with plastic or other impervious material to prevent sediments from being washed from the storage area to surface waters.
13	Exposed soils will be seeded and covered with appropriate mulch after construction is complete.
14	No paving, chip sealing, or stripe painting will occur during periods of significant rain or wet weather.
15	For concrete, a concrete truck chute cleanout area shall be established to properly contain wet concrete.
16	Only clean and washed streambed material will be placed in the replacement culverts.

4. Plants

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

__X__deciduous tree: alder, maple, aspen, other: cottonwood, willow
__X__evergreen tree: fir, cedar, pine, other
__X__shrubs
__X__grass
__X__pasture
____crop or grain
____ Orchards, vineyards or other permanent crops.
__X__ 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?

Most of the project site is upland dominated by a mixture of native and nonnative plants, including ponderosa pine, douglas fir, cottonwood, with nootka rose, snowberry, oceanspray and numerous other upland type species.

The project will clear and grub approximately 5 acres of vegetation from existing areas. A preliminary estimate of approximately 160 trees (fir, pine, and cottonwood trees; 88 trees are within the clear zone and another 79 trees are within the cut/fill limits) ranging between 8-inches and 50-inches in diameter at breast height (dBH), may be removed.

Approximately, 7,000 square feet of riparian and wetland buffer may be directly affected by the project, including 4,350 square feet adjacent to Clear Creek. Both wetland and riparian buffers are fragmented due to Chiwawa Loop Road and residential development.

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

According to the Department of Natural Resources, no threatened and endangered species are known to be on or near the site.

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

Temporary impacts or exposed soil as a result of construction activities will be replanted with native vegetation (bare root or hydoseed). In addition, the proposed project will replant the areas of Clear Creek where vegetation may have been removed resulting from the proposed culvert replacement.

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

There are no known noxious weeds and/or invasive species known to be within the right-of-way. It is unknown if these exist near the site.

5. Animals

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.

Examples include:

birds: hawk, heron, eagle, songbirds, other: red-tail hawks, quail, to name a few
mammals: deer, bear, elk, beaver, other: coyotes
fish: bass, salmon, trout, herring, shellfish, other _____

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

Upper Columbia spring Chinook, summer steelhead, bull trout, gray wolf, grizzly bear, Canada lynx, fisher, and Northern spotted owl, are all known to be on or near the site (within 100 miles). All threatened and endangered species will be addressed in the Biological Assessment and submitted to the appropriate state and federal agencies.

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

Both chinook and steelhead do utilize either Clear Creek or the Chiwawa River for migration.

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

By replacing the Clear Creek culvert with a larger, fish passable, 4-sided box culvert, year-round fish passage will be created. This will aid in the recovery efforts of the summer steelhead.

e. List any invasive animal species known to be on or near the site.

No known invasive animal species are known to be on or near the site.

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.

No energy needs are required once the roadway improvement project is complete.

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

No, the completed widening of Chiwawa Loop Road will not affect the potential use of solar energy by adjacent properties.

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:

Wider shoulders/roadway along Chiwawa Loop Road will be constructed, allowing pedestrians to walk or ride bicycles in a safer manner than with the existing roadway.

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.

Environmental health hazards typical of roadway construction will be present.

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

No contamination within the right-of-way from present or past uses is 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.

Chemicals typical of roadway construction will be onsite during construction on short-term. These chemicals may include, but is not limited to, petroleum products, hydraulic fluid, asphalt, roadway striping painting, etc. Once the project is complete, any staged chemicals will be removed.

4) Describe special emergency services that might be required.

No special emergency services are required for this road project. Typical fire and medical assistance are located at nearby volunteer fire stations or about 15-miles away within the City of Leavenworth if an onsite injury occurs. Chiwawa Loop Road may need to be closed down for several days in order to efficiently replace the culver at Clear Creek with a new 4-sided box culvert. If the roadway is closed down, appropriate notification will be given.

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

Measures to reduce or control environmental health hazards will be addressed in the spill prevention plan, which will be required to be developed before the project begins. The spill prevention plan will detail what to do if a spill occur and cleanup procedures.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Chiwawa Loop Road is a two-lane roadway and is a low capacity Rural Major Collector, with an ADT over 500 vehicles per day. No known noise in the project area may affect the county's project.

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.

The proposed Chiwawa Loop Road project is intended to improve safety of both pedestrians and vehicles. Traffic noise will be present sporadically over a 24-hour period, typical of any other roadway in the area. Long-term traffic noise should remain very similar to existing conditions since this rural roadway will continue as a two-lane road with no additional volume expected because of the improvements.

During the project, construction noise typical of a roadway improvement project will be present throughout the day and will last for the duration of the project (approximately 3 months). Construction typically occurs Monday – Saturday, 6AM to 7PM, however may vary depending on the job.

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

To control potential noise impacts, the construction hours are limited to hours set forth in the project contract documentation. Additionally, standard mufflers will be used on all construction equipment to reduce noise impacts. Once construction is complete, no additional measures are proposed to control noise.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The current use of the site is county right-of-way, which has a rural, 2-lane road within it. Adjacent property primarily consists of residential homes and cabins, with the exception of Thousand Trails, which is a private campground.

The county needs to acquire approximately 1-acre of right-of-way from adjacent landowners, in addition to approximately 2.25 acres for temporary construction easements.

Existing land uses are not expected to change as a result of this roadway improvement project.

b. Has the project site been used as working farmlands or working forest lands? 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?

The county right-of-way or land to be acquired by the county has not been used as working farmlands or working forest lands. There is no known agricultural or forest land of long-term commercial significance present.

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? If so, how:

It is not anticipated that the project will affect or be affected by surround working farm or forest land normal business operations.

c. Describe any structures on the site.

No structures currently exist on Chiwawa Loop Road with the exception of guardrail, a bridge, and numerous culverts under the roadway. The Chiwawa Irrigation District operates an irrigation flume that conveys water under the county's roadway.

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

The Clear Creek culvert will be replaced with a 4-sided box culvert. Other drainage culvers and guardrail may either be replaced and/or removed.

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

Rural waterfront (RW)
Rural Recreational/Residential (RRR)
Rural Residential/Resource 2.5 (RR2.5)

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

Rural waterfront (RW)
Rural Recreational/Residential (RRR)
Rural Residential/Resource 2.5 (RR2.5)

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

Chiwawa River - Rural

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

Yes, wetlands and regulated water bodies are present in the project area. As a result a wetland delineation report has been completed and work in water bodies has been addressed in various permit applications for this project.

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

There will not be any additional people or work as a result of this roadway improvement project.

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

None.

k. Proposed measures to avoid or reduce displacement impacts, if any: _

Not applicable.

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The proposed project will widen an existing rural two-lane roadway to 30 feet, providing a safer route for vehicles and pedestrians. The project has been designed to minimize impacts to the environment and land uses in the area. This has been accomplished through public meetings and discussions with proper local, state, and federal agencies.

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

Chiwawa Loop Road will remain a rural, two-lane road, which can be utilized by anyone that wants to access these types of lands.

9. Housing

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

Not applicable.

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

Not applicable.

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

Not applicable.

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?

The proposed project is a roadway improvement project. No antennas or exterior building material is proposed. Guardrail may be added to portions of the roadway where regulations require these structures. Typically, guardrail is two feet off of the pavement.

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

Vegetation within the project corridor will need to be removed in order to widen the roadway properly. The removal of this vegetation may alter some residential views. Additionally, up to 160 trees will be removed throughout the corridor. All of which may alter certain views.

Project construction limits will be clearly marked, so no unnecessary vegetation removal will be conducted. The county will follow tis noxious control weed program in this area to assist in native plant growth.

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

Once construction is complete, any exposed soil/slopes will be replanted either with bare root plants or native hydroseed. Where hydroseed is utilized, it will need to become established before TESC measures are removed.

Project construction limits will be clearly marked, so no unnecessary vegetation removal will be conducted. The county will follow tis noxious control weed program in this area to assist in native plant growth.

11. Light and Glare

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

See above response to 10b.

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

See above response to 10b.

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

No offsite sources of light or glare are known.

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

See above response to 10c.

12. Recreation

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

Biking, walking, hiking, snowmobiling, skiing, camping, snowshoeing, to name a few.

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

The project will not displace any existing recreational uses, it is hopeful the project will add to it.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

The county is attempting to keep Chiwawa Loop Road open to the furthest extent practicable during construction to allow for recreation uses. Additionally, wider shoulders will allow for greater opportunity for pedestrian and bicycle use.

13. Historic and cultural preservation

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 located on or near the site? If so, specifically describe.

Chelan County is currently conducting a historic property investigation as part of the Section 106 requirements. This investigation will report if any buildings, structures, or sites are listed or eligible for listing on or near the site. The results of this investigation will be shared with all appropriate Tribes and state agencies.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? 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.

Chelan County is currently conducting a cultural resources investigation as part of the Section 106 requirements. This investigation will detail any landmarks, features, or other evidence of Indian or historic use or occupation on or near the site. The results of this investigation will be shared with all appropriate Tribes and state agencies.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Chelan County has and will continue to consult with the Department of Archaeology and Historic Preservation (DAHP) and all appropriate Tribes. This consultation includes, letters, emails, literature research, an onsite survey, and appropriate reports/documentation for all parties to review.

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.

The county will cooperate with affected agencies and tribes if any cultural resources are impacted as a result of this project.

14. Transportation

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.

The proposed project is located along Chiwawa Loop Road between mile post 3.10 (Wending Lane) and 4.58 (Sumac Lane), in Sections 31 & 32, Township 27 North, Range 18 East W.M., Chelan County, Washington.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

Public transit does not serve the Chiwawa Loop/Plain area. The closest bus transit station is in the City of Leavenworth, approximately 15 miles to the south. The closest Amtrak station is immediately outside the City of Leavenworth, adjacent to North Road, approximately 13 miles to the south.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

The project will not add or eliminate any parking spaces.

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

The proposed project will address a deteriorating pavement and roadway base by upgrading the structural integrity. In addition to a new roadway base and surfacing, this project will also widen the road from 22 feet to 30 feet, add drainage improvements, replacement/addition of guardrail, replace a fish barrier culvert with a bridge at Clear Creek, improve roadway geometrics, make improvements to the roadside and clear zone (including tree removal), and retrofit an early 1900's irrigation flume. All work will be done within the county's right-of-way or easements areas obtained by the county.

As a result of the wider roadway, shoulders will be added to provide opportunity for bicycles and pedestrians to utilize the roadway in a safer manner.

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

Not applicable.

f. How many vehicular trips per day would be generated by the completed project or proposal? 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?

The project is not anticipated to increase traffic volumes on Chiwawa Loop Road.

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? If so, generally describe.

During construction there may be impacts to the movement of agricultural and forest products on roads or streets in the area, however these impacts will be short-term and temporary. Once the roadway project is complete, there should not be any lasting impacts to these efforts along Chiwawa Loop Road.

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

During construction, flagger controlled traffic may be in place. Maximum wait times will be specified in the contract documents. Chiwawa Loop Road may be closed for several days to install a new 4-sided box culvert at Clear Creek. If this does occur, public outreach will be conducted in advance and a detour provided.

15. **Public Services**

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, the roadway improvement project will not increase the need for public services.

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

None are proposed.

16. **Utilities**

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

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 new utilities are proposed as a result of the project. All utilities that are located within the project area/right-of-way have been notified of this project and have the opportunity to work with the county to improve/repair/maintain their infrastructure.

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: _____

Name of signee _____

Position and Agency/Organization _____

Date Submitted: _____

D. supplemental sheet for nonproject actions

(**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?

   Proposed measures to protect or conserve plants, animals, fish, or marine life are:

3. How would the proposal be likely to deplete energy or natural resources?

   Proposed measures to protect or conserve energy and natural resources are:

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

Proposed measures to protect such resources or to avoid or reduce impacts are:

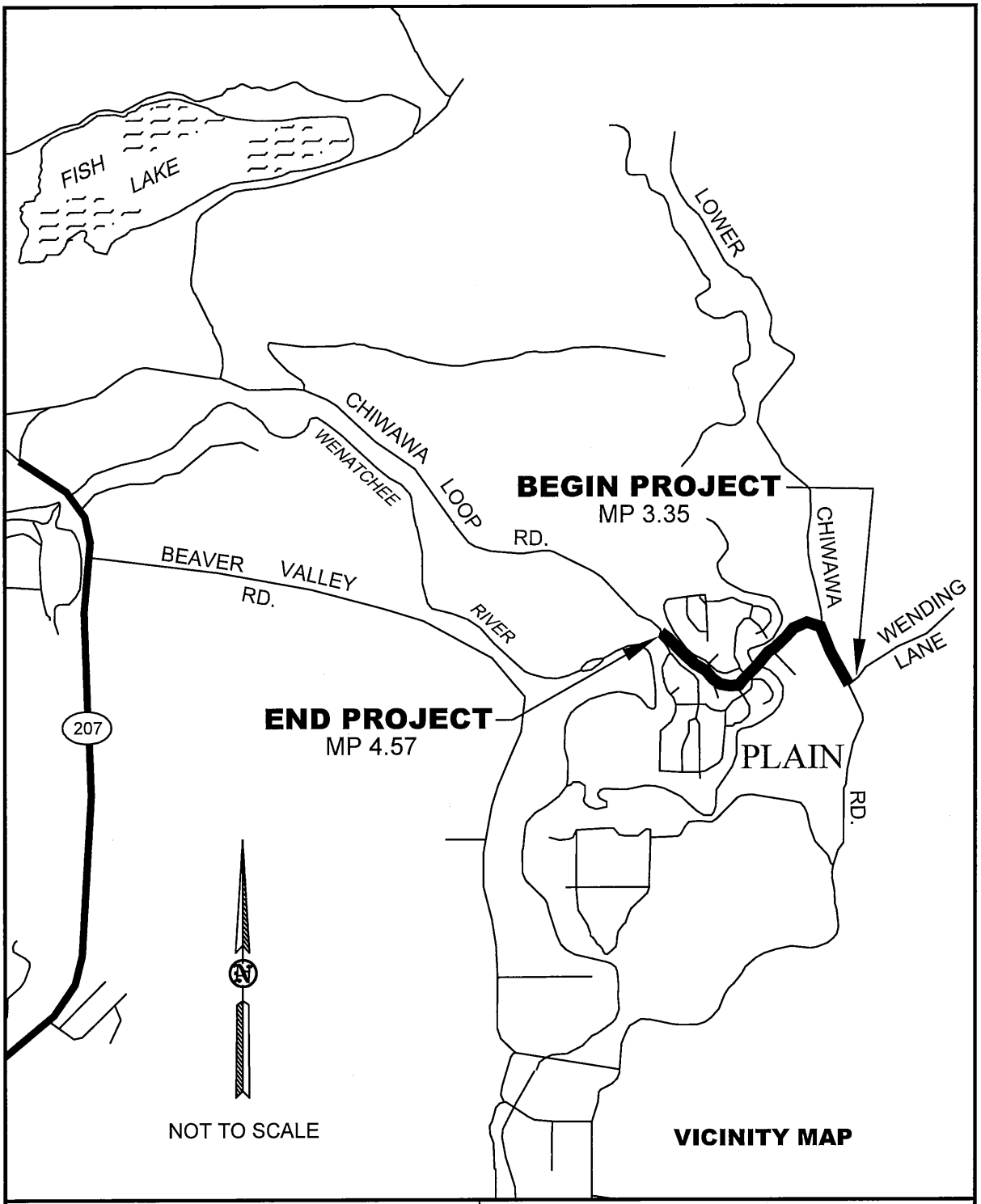
5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

   Proposed measures to avoid or reduce shoreline and land use impacts are:

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

   Proposed measures to reduce or respond to such demand(s) are:

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.



Chelan County
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CHELAN COUNTY

Chiwawa Loop Road Phase 3

Road No. 93300

Date: 05 -15 - 2014

Sheet 1 of 1