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.

A. Background

1. Name of proposed project, if applicable:

   NE 165th Street Flood Risk Reduction Project #1127589

2. Name of applicant/lead agency:

   King County Department of Transportation, Road Services Division (RSD)

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

   Brent Champaco
   Public Information Officer
   206-477-9094
   Brent.Champaco@kingcounty.gov
   King Street Center (Mail Stop: KSC-TR-0824)
   201 South Jackson Street
   Seattle, WA  98104-3856

   Project website address: www.kingcounty.gov/NE165thStreet

4. Date checklist prepared: June 2018

5. Agency requesting checklist: King County Department of Transportation, Road Services Division

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

   The majority of project construction is expected for 2018. Timing for work within critical areas will be limited to what’s allowed per the project’s permit and approval conditions. Mitigation planting for unavoidable impacts to site vegetation will generally occur in the fall or winter following construction.

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

   There are no future plans for additions, expansion or further activity related to or connected with this proposal.

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

   Environmental information prepared for this project includes the following:
   • King County. Critical Areas Memorandum. June 2018
   • King County. Stormwater Design Manual Compliance Report. March 2018
   • King County. Geotechnical Investigation. June 29, 2016
Other environmental information that is anticipated to be prepared for this project includes a cultural resources survey and the permits and approvals listed in section A.10.

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.

There are no known applications pending for governmental approval, or other proposals directly affecting the property covered by this proposed project.

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

The following permits and approvals are anticipated for the project:

- Washington State Department of Fish and Wildlife (WDFW), Hydraulic Project Approval
- King County Department of Permitting and Environmental Review
  - Clearing and Grading Permit
  - Shoreline Substantial Development Permit
  - Flood Hazard Certificate

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.)

NE 165th Street (between 179th Place NE and 183rd Place NE) is routinely flooded and the road is closed most of the winter. To alleviate routine flooding, the project will do the following:

- Raise the road elevation approximately 1.5 feet along approximately 620 linear feet within the project area.
- Expand the existing southern roadside ditch to provide additional flood storage.

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 project is located on NE 165th Street between 179th Place NE and 183rd Place NE, within the Cottage Lake neighborhood of rural unincorporated King County, WA, west of the City of Woodinville, and within the NW Quarter of Section 18, Township 26 north, and Range 06 east. The project area can be found on page 507, E1 of the Thomas Brothers’ Guide. The project’s vicinity map is enclosed.

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)?**  
The surrounding valley is approximately one percent slope; the steepest slope on the site at the ditch is approximately 30- to 40-percent slope.

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.**

The Washington Geological Survey online mapping program indicates that the predominant surficial geologic unit underlying the project area is Pleistocene continental glacial drift (Qgd). Pleistocene till and outwash clay, silt, sand, gravel, cobbles, and boulders were deposited by or originating from continental glaciers. Locally, this includes peat and non-glacial sediments. Based on soil survey data maintained on the Natural Resource Conservation Service website two main agricultural soil series types are found within the project area. These two soil types are described as follows:

- Seattle muck (Sk): this soil’s classification can be used for prime farmland if drained.
- Everett very gravelly sandy loam (EvC): this soil’s classification is farmland of statewide importance.

The soils within the project area have not been drained for conversion to farmland and there is no apparent history of agriculture within the affected areas. The project will not result in removing agricultural soils. The project is not within an agricultural production district, or within King County Farmland preservation areas.

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

According to King County iMap accessed in 2018 the site is not mapped within geological critical areas. There are no indications or history of unstable soils in terms of erosion in the immediate vicinity of the project; however, there are indications and a history of the roadway sinking in the peat soils. These conditions led to deflection in the existing asphalt pavement and the accumulation of more than one-foot-thick layer of asphalt on the existing roadway from repeated pavement repairs.

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.**

The county proposes to reduce flood-related closures of NE 165th Street by raising the road and expanding the existing roadside ditch within the project area to provide compensatory flood storage as detailed below:

**Road Raising**

- Total project area: 0.41 acre (17,724 square feet)
- Approximate area of grading: 0.00 acre (0.00 square feet)
- Approximate volume of roadway fill: 758 cubic yards
- Approximate volume of excavation: 0 cubic yards

The source of imported fill will be from permitted and approved materials sites. This fill will be placed within the existing roadway prism.

**Compensatory Flood Storage Mitigation – Ditch Excavation**

- Total project area: 0.09 acre (4,060 square feet)
- Approximate area of grading: 0.09 acre (4,060 square feet)
- Approximate volume of fill: 0.00 cubic yards
- Approximate volume of excavation: 760 cubic yards

After the ditch excavation is completed, the new ditch area will be 8,150 s.f. (0.19 acre). Exported fill will be taken to permitted and approved sites.
f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Erosion could occur as a result of vegetation removal and ground-disturbing activities during construction and depending on seasonal weather. Appropriate temporary and permanent erosion and sedimentation control Best Management Practices (BMPs) and stormwater controls will be implemented to minimize potential erosion. Please see B.1.h for proposed measures to reduce and control erosion.

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

The existing impervious surface at the project site is approximately 0.41 acre (17,724 square feet). After construction, the approximate impervious surface will be 0.41 acre (17,724 square feet). This project does not result in a net increase of new impervious surface.

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

Construction: Existing vegetation will be preserved to the extent practicable. During construction, affected areas will be isolated from other wetted areas, clean incoming surface flows will be bypassed around the work zone, and temporary erosion and sedimentation controls, and Best Management Practices (BMPs) required in the King County Surface Water Design Manual (SWDM) will be implemented. The BMPs include, but are not limited to the use of mulch, silt barriers, containment systems, settling tanks interim stormwater controls, cover measures (e.g., seeding, straw or fabric blankets), and reseeding areas that are temporarily disturbed by construction.

Operation: Permanent native plants will be installed at project completion. All exposed surfaces will be stabilized. Ditches will be monitored and maintained.

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.

Greenhouse Gas Emissions: Construction, operations, and maintenance of the roadway will result in greenhouse gas (GHG) emissions that contribute to global warming and related climate-change concerns. Life-cycle GHG emissions for the project include embodied, operational, and construction emissions that are defined as follows:

- Embodied emissions are the emissions released during the extraction, processing, and transportation of the materials used in construction.
- Construction emissions are released during project construction and primarily come from fuel burned in the equipment used to build the project elements, such as bulldozers, pavers, and rollers.
- Operational and maintenance emissions are released by vehicles at the site and during vehicular roadway travel.

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

No off-site sources of emissions or odors have been identified that may affect this proposal.

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

During construction, operation, and maintenance for the roadway, mitigation measures for project impacts to air quality and GHG emissions could include, but are not limited to, the following:

- Spraying water, when necessary, during construction operations to reduce emissions of fugitive dust.
- Covering dirt, gravel, and debris piles as needed to reduce fugitive dust and wind-blown debris.
• Covering open-bodied trucks in accordance with RCW 46.61.655, wetting materials in trucks or providing adequate space from the top of the material to the top of the truck to reduce fugitive dust emissions.
• Sweeping public streets, when necessary, to remove mud and dirt deposited on paved roads.
• Using biodiesel or ultra-low-sulfur diesel fuels for vehicles and equipment to reduce diesel exhaust emissions.
• Conservation and reuse of construction materials on site, to reduce exhaust emissions and traffic delays.
• Enforcing King County’s no-idling policy for county vehicles.

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.

   Basin: The project is located in the Cottage Creek Basin of Water Resource Inventory Area (WRIA) 08 for the Cedar/Sammamish watershed.

   Streams: Cottage Creek is a King County Type F fish-bearing stream located within the project vicinity. It flows under a bridge that crosses NE 165th Street and drains to Bear Creek and eventually the Sammamish River. The stream will not be impacted by the project and has a 165-foot buffer.

   Wetlands: A portion of this roadway between 179th Place NE and 183rd Place NE crosses the Big Bear Creek Wetland #10, within King County Shoreline Management Act jurisdiction. This is a Category I wetland. Outside of the Urban Growth Area this wetland is provided with a 150-foot-wide buffer with an additional 15 feet for each habitat point over 20. An informal rating by the county Environmental Scientist concluded that the wetland requires a 270-foot-wide buffer per King County Code.

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.

   The existing roadway prism crosses Big Bear Creek Wetland #10 and the project is entirely within this area. Work will occur within and adjacent to the waters as noted in 3.a.1. 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.

   Approximately 0.09 acre (4,060 square feet) of wetland ditch area will be excavated; the approximate volume of excavation is 760 cubic yards.

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

   Clear surface water will be diverted around the work area during construction to maintain inputs into downstream aquatic areas. Turbid water, including affected groundwater, will be withdrawn from the work area for treatment and release when water clarity meets the quality criteria for discharge. Once construction is completed, these diversions and withdrawals will be discontinued. No long-term or permanent surface water withdrawals are required for the project.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
The project is not within a mapped Federal Emergency Management Agency (FEMA) 100-year floodplain. However, the project is within an area that meets the criteria of a Flood Hazard area as described by the King County Critical Areas Code 21A.24.230.

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 waste materials will be discharged to surface waters. BMPs will be implemented following the King County and Washington State Department of Ecology stormwater manual guidance.

b. Groundwater:

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.

The ditch will be dewatered prior to construction to minimize impacts to groundwater and surface water. Dewatering may be accomplished by installing a lined sump to an elevation reaching below the maximum depth of excavation or by continuous pumping of all water from the excavation for treatment and/or disposal. Groundwater that meets water-quality standards will be discharged to a vegetated upland infiltration area, and if needed, to a Baker tank and hauled off site.

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 into the ground from septic tanks or other sources.

c. Water runoff (including stormwater):

1) Describe the source of runoff (including stormwater) 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.

The source of runoff is precipitation. Stormwater presently discharges as sheet flow from the impervious roadway surface to the existing southern roadside ditch and the wetland to the north. The existing flow pattern will be unchanged by the proposed activity.

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

It is unlikely, but possible, that fuel or concrete spills could occur from construction machinery. King County and Washington Department of Ecology spill prevention BMPs will be followed to avoid such spills. Crews will be required to implement a Spill Prevention Control and Countermeasures Plan for the project prior to beginning construction.

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

Successful implementation of this proposal will reduce the frequency of roadway flooding. The inclusion of wetland equalization culverts under the raised roadway will help convey water that could overtop the pavement. The completed project will increase storage capacity within the ditch on the south side of the road. While this will change the backwater effect during high-water events, it will not change the general existing drainage patterns.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:
The intent of this project is to reduce seasonal roadway flooding while providing storage and conveyance for local surface-water drainage. The higher roadway prism may result in a minor increase in flow volume under the Cottage Lake Creek Bridge east of the project area. Wetland equalization pipes are included in the design to convey a portion of this flow, reduce the volume directed to the bridge, and provide a more natural connection between the wetland area north and south of the roadway.

4. Plants

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

- [x] deciduous tree
- [x] evergreen tree
- [x] shrubs
- [x] grass
- ___ pasture
- ___ crop or grain
- ___ orchards, vineyards or other permanent crops
- [x] wet soil plants
- [x] other types of vegetation: weeds

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

Construction of the raised portion of the roadway will affect grasses growing on the currently mowed and maintained shoulders. The installation of mitigation/restoration plantings will affect grasses within the mowed shoulder along the north side of the roadway. Expansion of the existing ditch will require removal of hardhack (*Spiraea douglasii* ssp. *douglasii*) and some Sitka willow (*Salix sitchensis*). These plants are within or adjacent to the area currently affected by maintenance of the existing ditch and/or cutting operations necessary to protect the overhead power lines.

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

There are no known threatened or endangered plant species on or near the site. There is no known “critical habitat” area on or near the site. According to the April 2017 Washington State Department of Natural Resources, Natural Heritage Program data, there are no special status plant species known to occur in the project area.

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

During construction, existing vegetation within the ditch will be temporarily disturbed or removed. These areas will be replanted with native species and cover measures to ensure stabilization during the first growing season after construction is complete.

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

Tansey ragwort and purple loosestrife are Regulated Class B noxious weeds mapped by King County as within or near the site. Non-Regulated Class C weeds, Himalayan blackberry and reed canary grass were observed on site. Bittersweet nightshade is a weed of concern observed on 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:
b. **List any threatened and endangered species known to be on or near the site.**

Steelhead trout, and chinook salmon are federally threatened fish species known to be near the site within Cottage Lake Creek, located at the eastern end of the project limits. WDFW Priority Habitat Species Maps (PHS) (accessed April 2018) identified the following fish species within the project vicinity: coho, steelhead, resident coastal cutthroat, chinook, sockeye, and kokanee. Wetted areas within the project footprint do not contain sufficient dissolved oxygen to support any fish life.

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

The project area is not a mapped wildlife species corridor; however, fish utilize Cottage Lake Creek to migrate.

The project site is within the Pacific Flyway, which is a major north-south route of travel for migratory birds, extending from Alaska to Patagonia. Every year, migratory birds travel some or all of this distance both in spring and in fall, following food sources, heading to breeding grounds, or travelling to overwintering sites. Migrating and nesting birds within the project area will be protected as required under the Migratory Bird Treaty Act.

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

Proposed measures to preserve or enhance wildlife include, but are not limited to:

- Avoiding impacts: no work is proposed at Cottage Lake Creek. The project’s clearing limits will be clearly marked prior to construction to preserve and protect vegetation from construction activities and equipment.
- Restoring temporarily disturbed vegetation and providing cover measure for disturbed areas to minimize erosion.
- Monitoring restoration areas after construction to ensure vegetation survival.

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

Bullfrogs (*Rana catesbeiana*) are present in wetland areas throughout the Puget Sound Lowlands.

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.**

Gas, diesel, or other fossil fuels will be utilized by heavy equipment during project construction.

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

The project 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:**

Measures to reduce energy use during construction will be encouraged (e.g., efficient scheduling, material transport and staging).
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.**

The accidental leakage of petroleum products (e.g., gasoline, diesel fuel, hydraulic fluid, anti-freeze, grease, etc.) from construction equipment could occur but is not likely. These substances can be toxic to nearby aquatic systems, and to humans upon prolonged skin contact, and can pose a fire hazard. King County inspectors will monitor the site during construction and spill kits will be on site.

During construction, community health could be affected by dust and vehicle exhaust. Construction activities will intermittently generate particulate matter and odors, and construction equipment will generate diesel engine exhaust. Any air-quality impacts associated with construction activities will be most noticeable at sensitive land uses, such as schools or parks, near the construction site; however, there are not any sensitive land uses near the construction site, so these impacts are unlikely. In addition, air-quality impacts will be short term, occurring only while construction is in progress; however, they will at times diminish the air quality in the project corridor. BMPs will be employed to reduce fugitive dust, odors, and exhaust emissions.

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

There are no known or possible contaminates at the site from present or past uses.

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.**

There are no existing hazardous chemicals/conditions at the project site that might affect project development and design.

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.**

During construction, petroleum products will be used on site to power construction equipment and as a component of asphalt pavement.

During operations, fuel at the existing gas station and orphan waste removed from the right-of-way will be stored temporarily in a facility designed for such materials.

4) **Describe special emergency services that might be required.**

The need for special emergency services is not anticipated.

Completion of the project will facilitate local emergency vehicle response by reducing the frequency of roadway closure.

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

The project will implement a SPCC plan that provides BMPs that will be used during construction to minimize the potential for hazardous spills from fuels used on the site. Spill kits will be available on site to be used in the rare event of a spill. Worker health and safety will be addressed as required by Washington State and federal regulations. If waste material generated is generated from construction, it will be properly managed and disposed of at permitted facilities.
Contractor crews will be required to submit a Fugitive Dust Control Plan to King County for approval. The plan will provide BMPs that will be used to minimize the amount of particulate matter (i.e., dust) generated during construction.

Reduction of roadway flooding will decrease the release of hydrocarbons from the roadway, by reducing the incidences of vehicles driving around barricades through the flowing water. This will also reduce the probability of roadway accidents due to standing water on the roadway.

b. Noise

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

Existing noise in the area emanates from surrounding rural residential parcels and traffic along the rural roadway. The existing noise levels in the area will not increase due to completion of the proposed 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.

On a short-term basis, noise will be generated from the construction equipment (e.g., truck traffic hauling materials to and from the site; back hoe; bulldozer; and asphalt-paving operations). On a long-term basis, there will be no increase in noise.

According to King County Code 12.94.020, Part B-1, the following sounds are exempt from the provisions of the noise ordinance: "Sounds created by construction equipment, including special construction vehicles, and emanating from temporary construction sites, if the receiving property is located in a rural or residential district of King County."

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

Standard mufflers will be used on all construction equipment. The construction crew will work during hours in accordance with the requirements of King County Code and permit conditions.

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 present use for the site is as King County roadway infrastructure. NE 165th Street is a two-lane paved arterial collector. The project is bordered on the north by the Basset Pond Natural Area, a King County Park. The surrounding neighborhood is residential. The project will not affect the present land uses on nearby or adjacent properties.

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?

Aerial photography reveals that the roadway has existed in its current alignment since at least 1936. The project site has not recently been used as working farmlands or working forestlands. There are no agricultural areas or forestlands of long-term commercial significance within the project area and none will be converted to other uses as a result of this proposal.
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?

The proposal will not affect or be affected by surrounding working farm or forest land.

c. Describe any structures on the site.

All on-site structures are within the transportation and utility corridor provided by NE 165th Street including: overhead and buried communication utilities, roadway fill prism, paved traveled roadway surface, guardrails, ditches, culverts and Cottage Lake Creek Bridge 52b.

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

No existing structures will be demolished for the project.

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

King County’s public road rights-of-way are not subject to zoning. The project area is zoned Rural Area 5 (RA 5) with one dwelling unit per five acres.

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

According to the 2016 King County Comprehensive Plan, the project location is designated as Rural Area.

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

The project site is located in King County Shoreline Master Program areas designated as Rural Shorelines. The property north of the roadway is designated Natural Shoreline.

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

The following critical areas were identified by the county:
- One Type F stream and 165-foot-wide buffer
- One Category I wetland with a 270-foot-wide buffer
- Floodplain
- Critical Aquifer Recharge Area, Category 2 in an area highly susceptible to groundwater contamination

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

No people will reside or work in the completed project.

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

No people will be displaced by the project.

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

No measures will be implemented to avoid or reduce displaced people because no one will be displaced.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
This project is listed in the *King County Transportation Needs Report* (2016) and complies with the *King County Comprehensive Plan*. The proposed project is consistent with existing and projected land uses in the areas that are potentially affected by the project. The project requires land use permits from the King County Department of Permitting and Environmental Review to further ensure the project is compatible with existing and projected land uses and plans.

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

No such measures are necessary. Reduction of roadway flooding at this location will not affect any commercial activities.

9. Housing

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

No housing units are being provided by the project.

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

No housing units are being eliminated by the project.

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

Protective measures for housing impacts are not needed because housing will not be impacted.

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 geosynthetic wall will raise the affected portions of the roadway by less than two feet.

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

No views in the immediate vicinity of the project will be altered or obstructed.

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

No aesthetic impacts are anticipated. The completed project will appear as a newly resurfaced roadway typical of routine pavement maintenance.

11. Light and Glare

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

The project will not produce light or glare.

b. Could light or glare from the finished project be a safety hazard or interfere with views?
The finished project will not produce any additional light or glare that will be a safety hazard or interfere with views.

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

No identified off-site sources of light or glare have been identified that will affect the proposed project.

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

No light and glare impacts are proposed, so no measures are needed to prevent or minimize light and glare impacts.

12. **Recreation**

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

Very limited roadside parking for the Bassett Natural Area is present on the shoulder along NE 165th Street near 179th Place NE where a gravel road provides access across this area to Cold Creek as well as to numerous King County Parks’ informal trails reaching different parts of the site. Many areas within the publically owned properties preserve aspects of historic agricultural uses within the wetland and buffer including pastures, orchids and blueberry farming. Further details about the current conditions and future planning for the publically owned areas can be found at [http://www.kingcounty.gov/services/parks-recreation/parks/parks-and-natural-lands/natural-lands/cold-creek.aspx](http://www.kingcounty.gov/services/parks-recreation/parks/parks-and-natural-lands/natural-lands/cold-creek.aspx).

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

No existing recreational uses will be displaced.

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

No measures are necessary to reduce or control impacts on recreation.

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.**

There are no buildings, structures, or sites listed in or eligible for any historic register at the project site.

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.**

There are no known archaeological materials, evidence of Native American use, or burials on the project location. Due to excavation within the ditch that is part of a large wetland with peat soils, a professional cultural resources survey is being prepared at the recommendation of the RSD Archaeologist.

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 archaeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.**
The project location was screened by the RSD Archaeologist. This screening accessed both the Department of Archaeology and Historic Preservation WISAARD database and the King County CRPP database. A professional cultural resources survey is being prepared and will be reviewed by the RSD Archaeologist.

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 database screening referenced in 13.c. was the initial step in determining what measures are appropriate for the project site to identify resource potential. An additional cultural resources survey was conducted using shovel probes into the roadside ditches that are underlain by peat soils. No cultural resources were identified by the field work and it is likely that no further investigation will be recommended by the RSD Archaeologist once the survey report is finalized.

There is always a remote possibility that as-yet unidentified archaeological resources may be discovered during construction. Construction site inspectors, or other designated personnel, will monitor the site for indications of possible resources discovered during construction.

If resources are identified during construction, then work in the vicinity of the identified resources will cease and the RSD Archaeologist, WSDOT, the Washington State Department of Archaeology and Historic Preservation, the King County Historic Preservation Program, and other appropriate agencies will be notified immediately. Work will not be allowed to resume at the site in the vicinity of the identified resources until appropriate archaeological investigations are complete.

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 project is served by NE 165th Street within the Cottage Lake neighborhood of rural unincorporated King County, WA. This roadway provides an important transportation corridor between the Cities of Woodinville and Redmond and carries in excess of 1,000 vehicular trips daily. Access to NE 165th Street is from Avondale Road NE to the east and NE 172nd Place to the west, which connects to NE Woodinville Duvall Road to the north and eventually to 140th Avenue NE to the west.

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?**

The project site along NE 165th Street is not affected by, or currently served by public Transit. The approximate distance to the nearest stop is half a mile east on Avondale Road NE.

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

The completed project will not include parking spaces, nor eliminate any existing 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 sole purpose of the proposed improvements to the existing public roadway is to reduce the frequency of road closure due to flooding. No work to other thoroughfares private or otherwise is to be undertaken.
e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

The project will not use water, rail, or air transportation. The project is in the immediate vicinity of Cottage Lake Creek, but this is not a navigable waterway.

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 completed project will not generate additional vehicular trips.

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.

The proposal will not interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area.

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

The roadway will be fully or partially closed during construction. The enclosed detour plan will be implemented to reduce impacts to the traveling public.

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 increased needs for public services are anticipated as a result of the proposed project.

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

Because there will be no direct impacts on public services, no proposed measures will be needed.

16. Utilities

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

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 are proposed for, or will be impacted by, the 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: [Signature Image] Date: 6/15/18

Name of Signee: JoAnn Kosai-Eng

Position/title: Road Services Division, Maintenance Section, Managing Engineer, Environmental Unit
Attachments:  Project Plan Sheets:

Sheet 1:  Vicinity Map
Sheets 5-6:  Plan and Profile
Sheet 7, 13-15:  Temporary Erosion and Sediment Control Plans
Sheet 16:  Detour Plan