SEPA CHECKLIST

84th St NE and 163rd Ave NE Intersection Improvements

RC1758

Prepared by:
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TES-Environmental Services

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December 2020
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.

SUMMARY

A. BACKGROUND

Name of proposed project:
84th Street NE and 163rd Ave NE Intersection Improvements, Snohomish County

Name of applicant:
Snohomish County Public Works

Address and phone number of applicant and contact person:
Mary Auld, Senior Planner
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mary.auld@snoco.org

Date checklist prepared:
December 2020

Agency requesting checklist:
Snohomish County Public Works
Transportation and Environmental Services (TES) Division

Proposed timing or schedule (including phasing, if applicable):
Construction of the proposed intersection improvements is scheduled for the 2023 construction season.

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, please explain.
None proposed.

List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
- Environmental Review Memo
- Cultural Resources Report
- Drainage Report
- Design Report
- Geotechnical Memorandum
Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, please explain.

**No applications are pending.**

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

**The following permits may be required for this project:**

<table>
<thead>
<tr>
<th>Permit/Approval:</th>
<th>Required from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Section 404 Authorization: Nationwide Permit</td>
<td>U.S. Army Corps of Engineers</td>
</tr>
<tr>
<td>☐ Section 7 Endangered Species Act Consultation</td>
<td>NOAA Fisheries and U.S. Fish and Wildlife Service</td>
</tr>
<tr>
<td>✓ Section 106 National Historic Preservation Act</td>
<td>Washington State Department of Archeology and Historic Preservation</td>
</tr>
<tr>
<td>☐ Section 401 Water Quality and CZM Certification</td>
<td>Washington State Department of Ecology</td>
</tr>
<tr>
<td>✓ NPDES Permit</td>
<td>Washington State Department of Ecology</td>
</tr>
<tr>
<td>☐ Hydraulic Project Approval (HPA)</td>
<td>Washington State Department of Fish and Wildlife</td>
</tr>
<tr>
<td>✓ Drainage &amp; Land Disturbing Activity Certification</td>
<td>Snohomish County – Public Works</td>
</tr>
<tr>
<td>✓ Critical Area Certification</td>
<td>Snohomish County – Public Works</td>
</tr>
</tbody>
</table>

1. Give a brief, complete description of your proposal, including the proposed uses and the size of the project 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).

**Public Works (PW) Engineering Services proposes to upgrade the intersection of 84th Street NE and 163rd Avenue NE in Snohomish County. This intersection has a higher than average traffic volume and accounts for 10% of collisions along the corridor.**

The proposal would construct a roundabout at this intersection to improve traffic flow and safety. The roundabout would have a 55-foot diameter center island, 15-foot-wide inside truck apron and a 20-foot circulating roadway. Outside truck aprons would be added to the NE, NW and SW edges of the circulating lane to accommodate long combination hauling vehicles.

The approach lanes would be 12 feet wide with chicanes designed to reduce approach speeds. Shared use concrete sidewalks (10-feet wide with a 2-foot buffer strip) would be used by both bicycles and pedestrians. The number of
lanes would remain the same, but the intersection would be realigned and slightly raised to allow proper drainage.

2. Location of 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/range if known. If a proposal would occur over a range of areas, provide the range or boundaries of the site(s). Provide 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.

This project is located at the intersection of 84th Street NE (also known as Getchell Road) and 163rd Avenue NE in Snohomish County. The intersection is just west of State Route 92, on 84th Street NE. The project is located in Section 22 and 23, Township 30, Range 6E. This road is a major route between the cities of Granite Falls and Marysville.

B. ENVIRONMENTAL ELEMENTS

1. Earth

   a. General description of the site (check one):
      ☑ FLAT
      ☐ ROLLING
      ☐ HILLY
      ☐ STEEP SLOPES
      ☐ MOUNTAINOUS
      ☐ OTHER (please describe): Click here to enter text.

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

   c. What general types of soil are found on the site (i.e., 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 soils mapped at the project site are Menzel Silt Loam, Map Unit #33. The Menzel Silt Loam forms on terraces with 0 to 3 percent slopes and typically consist of alluvial formed materials.

      A boring was made at site of the proposed project as part of the geologic investigation. Underlying the asphaltic concrete pavement is a brown, fine- to coarse-grained gravelly sand fill. This fill encountered during the geologic boring was loose to medium dense, moist and extended to a depth of 3.0’ below the existing ground surface (bgs). The native recessional outwash consisting of a brown, medium-to coarse-grained sand with a trace of silt was encountered at 3.0’. This stratum was medium dense, moist and extended to a depth of 9.0’
bgs. At 9.0’ the geologist encountered brown, fine to medium-grained sandy gravel that is also part of the recessional outwash unit. This sandy gravel was dense and moist to wet and extended to the bottom of the boring at 26.5’ bgs.

d.  Are there surface indications or history of unstable soils in the immediate vicinity? If so, please describe.
   None known.

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 800 cubic yards of excavation would occur within the existing roadway prism to remove roadway fill materials to accommodate the new intersection configuration. Approximately 300 cubic yards of material would be excavated in adjacent roadsides areas to accommodate biofiltration swales and roadside ditches.
   Approximately 2,200 cubic yards of gravel borrow would be imported to accommodate the construction of a roundabout and sidewalks. The profile of the existing road will be raised slightly to allow for proper drainage. Approximately 1,000 cubic yards of concrete would be imported to construct a durable, circulating travel lane and aprons to support the large volume of truck traffic.

f.  Could erosion occur as a result of clearing, construction or use? If so, please generally describe.
   Minor amounts of erosion may occur during construction if appropriate erosion control practices are not utilized. Temporary Erosion and Sedimentation Control Best Management Practices (BMPs) would be used for temporary erosion and pollution control to minimize impacts from construction.

g.  About what percent of the site will be covered with impervious surfaces after project construction (i.e., asphalt or buildings)?
   The existing project site contains approximately 44,550 square feet (1.02 acres) of impervious surface. A total of 25,750 square feet (0.59 acres) of new impervious surface area would be added as part of the project. The completed project will have approximately 70,300 square feet, or 58 percent, of impervious surface.

h.  Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
   All project activities would be subject to Best Management Practices and would comply with the provisions of all applicable permits. Best Management Practices may include, but are not limited to the following:
   •  Protective covering would be placed over exposed soil areas to prevent sediments and other contaminants from entering the roadside ditches,
streams, and wetlands. Protective covering would be clear plastic sheeting, straw mulch, jute matting, mulch, or erosion control blanket per Department of Ecology requirements.

- A temporary erosion and sedimentation control plan would be prepared and implemented during construction.
- Erosion and sedimentation control measures would be routinely inspected, maintained and repaired. Damaged or inadequate erosion and sedimentation control measures would be corrected quickly.
- Any bare soil that may result from project activity would be reseeded with an appropriate erosion control seed mix immediately following construction.

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, please generally describe and give approximate quantities if known.

   Some dust and equipment exhaust will be emitted during construction. No long-term emissions will result from this project. Construction equipment, construction related activities, and vehicles carrying workers and equipment to and from the site would result in minor, temporary increases in emissions and dust. There would be no increase in emissions once construction is complete.

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

      No.

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

      During construction, equipment emissions would not exceed state and national air quality standards. The project would use only equipment and trucks in optimal operational condition. Dust control measures would be implemented to minimize airborne dust.

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, please describe type and provide names. If appropriate, state what stream or river if flows into.

      There are no surface water bodies in the project area. The closest natural water body is the Pilchuck River located approximately 1,062 feet to the east of the intersection. The river will not be impacted by the proposed project.
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.  
   **No.**

3. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.  
   **None.**

4. Will the proposal require surface water withdrawals or diversions? Please give a general description, purpose, and approximate quantities if known.  
   **The project will not require surface water withdrawal or diversions.**

5. Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.  
   **The project area is not within a 100-year floodplain. The closest flood hazard area is approximately 0.1 mile south of the project site.**

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

   b. Groundwater:
   1. Will groundwater be withdrawn from a well for drinking water of other purposes? If so, please give a general description of the well, proposed uses and approximate quantities withdrawn from the well.  
      **No.**
   2. Will water be discharged to groundwater? Please give a general description, purpose, and approximate quantities if known.  
      **No.**
   3. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (i.e., domestic sewage, industrial, containing the following chemicals..., agricultural, etc.).  
      **None.**
   4. Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.  
      **N/A**

   c. Water Runoff (including storm water):
   1. Describe the source of runoff (including 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, please describe.  
      **Currently storm water runoff from the existing roadway sheet flows into the adjacent roadside areas and disperses into the surrounding**
vegetation or is conveyed by roadside ditches. Existing drainage patterns would be maintained by the project. Roadway runoff will be intercepted and directed to a mitigated drainage area. Water quality treatment and flow control will be provided prior to release to the existing flow paths. The project proposes to construct Best Management Practices (BMPs) that allow for infiltration. Biofiltration swales and an infiltration pond are being considered.

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

3. Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, please describe.
   Currently storm water runoff sheet flows from the existing roadway and disperses into the surrounding vegetation or is conveyed by roadside ditches. Existing drainage patterns would be maintained.

4. Proposed measures to reduce or control surface water, groundwater, runoff water, and drainage impacts, if any.
   Water quality treatment and flow control will be provided prior to release to the existing flow paths. The project proposes to construct Best Management Practices (BMPs) that allow for infiltration. Biofiltration swales and an infiltration pond are being considered.

4. Plants
   a. Check all types of vegetation below found on or in close proximity to the site:
      ✓ deciduous tree: Ornamental deciduous trees are found on adjacent residential property on the south side of 84th St NE
      ✓ evergreen tree: Ornamental evergreen trees are found in adjacent yards on the south side of 84th ST NE. A Christmas Tree Farm is located northeast of the project site.
      ✓ shrubs: A laurel hedge and other ornamental shrubs and plants are found on the south side of 84th St NE
      ✓ grass: Maintained lawns are found on all four corners of the intersection.
      ☐ pasture
      ☐ crop or grain
      ☐ orchards, vineyards, or other permanent crops
      ☐ wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other
      ☐ water plants: water lily, eelgrass, milfoil, other
      ✓ other types of vegetation present:
Ornamental trees and shrubs are found in adjacent residential yards. On the northeast corner of 84th Ave NE and 163rd Ave NE is a commercial Christmas Tree Farm.

b. What kind and amount of vegetation will be removed or altered?
   Vegetation will be removed on all four corners of the intersection to construct the roundabout. Several trees, shrubs and groundcover will be removed.

c. List threatened and endangered plant species known to be on or near the site.
   None known.

d. List all noxious weeds and invasive species known to be on or near the site.
   Blackberries and other weeds are found near the site.

e. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation of the site, if any:
   The site will be reseeded with grass following construction.

5. Animals
   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.
   **Birds:** hawks, songbirds, ducks, woodpeckers, swallows, hummingbirds, kingfishers
   **Mammals:** opossum, raccoon, coyote, bats, small rodents
   **Fish:** none. The closest river is approximately 1,050 feet from the project site.
   **Other:** garter snake, amphibians, and other wildlife typical of Snohomish County

a. List any threatened and endangered wildlife species known to be on or near the site.
   No threatened, endangered, sensitive, or priority fish and wildlife species are known to be on or near the site. As of November 17, 2020, the following threatened, endangered, sensitive, or priority species that may be found within the County include:

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Latin Name</th>
<th>Federal Listing</th>
<th>State Listing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Puget Sound ESU Chinook</td>
<td><em>Oncorhynchus tshawytscha</em></td>
<td>Threatened</td>
<td>Candidate</td>
</tr>
<tr>
<td>Puget Sound DPS Steelhead</td>
<td><em>O. mykiss</em></td>
<td>Threatened</td>
<td>N/A</td>
</tr>
<tr>
<td>Bull trout</td>
<td><em>Salvelinus confluentus</em></td>
<td>Threatened</td>
<td>Candidate</td>
</tr>
<tr>
<td>Pygmy whitefish</td>
<td><em>Prosopium coulteri</em></td>
<td>N/A</td>
<td>Sensitive</td>
</tr>
<tr>
<td>Margined sculpin</td>
<td><em>Cottus marginatus</em></td>
<td>N/A</td>
<td>Sensitive</td>
</tr>
<tr>
<td>Olympic mudminnow</td>
<td><em>Novumbra hubbsi</em></td>
<td>N/A</td>
<td>Sensitive</td>
</tr>
<tr>
<td>Oregon spotted frog</td>
<td><em>Rana pretiosa</em></td>
<td>Threatened</td>
<td>Sensitive</td>
</tr>
<tr>
<td>Species</td>
<td>Scientific Name</td>
<td>Status</td>
<td>Status</td>
</tr>
<tr>
<td>--------------------------------</td>
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</tr>
<tr>
<td>Larch mountain salamander</td>
<td><em>Plethodon marselli</em></td>
<td>N/A</td>
<td>Sensitive</td>
</tr>
<tr>
<td>Common loon</td>
<td><em>Gavia immer</em></td>
<td>N/A</td>
<td>Sensitive</td>
</tr>
<tr>
<td>Marbled murrelet</td>
<td><em>Brachyramphus marmoratus</em></td>
<td>Threatened</td>
<td>Endangered</td>
</tr>
<tr>
<td>Northern spotted owl</td>
<td><em>Strix occidentalis caurina</em></td>
<td>Threatened</td>
<td>Endangered</td>
</tr>
<tr>
<td>Yellow-billed cuckoo</td>
<td><em>Coccyzus americanus</em></td>
<td>Threatened</td>
<td>Candidate</td>
</tr>
<tr>
<td>Fisher</td>
<td><em>Martes pennanti</em></td>
<td>Endangered</td>
<td>Endangered</td>
</tr>
<tr>
<td>Gray wolf</td>
<td><em>Canis lupus</em></td>
<td>Endangered</td>
<td>Endangered</td>
</tr>
<tr>
<td>Grizzly bear</td>
<td><em>Ursus arctos horribilis</em></td>
<td>Threatened</td>
<td>Endangered</td>
</tr>
<tr>
<td>Southern resident killer whale</td>
<td><em>Orcinus orca</em></td>
<td>Endangered</td>
<td>Endangered</td>
</tr>
</tbody>
</table>

If federal threatened and endangered species are found, all work will conform to the requirements of the Endangered Species Act administered by the US Fish and Wildlife Service and the National Marine Fisheries Service. Where State listed species, or Priority Habitats and Species (PHS) are found, the Washington Department of Fish and Wildlife Priority Habitats and Species recommendations will be followed, when appropriate. The most current PHS list can be found at: https://wdfw.wa.gov/species-habitats/at-risk/phs/list.

b. Is the site part of a migration route? If so, please explain.
   Yes. The site is within the Pacific Flyway. Migratory waterfowl and neotropical migrant songbirds can be observed in the greater project vicinity.

c. List any invasive animal species known to be on or near the site.
   There are no known invasive animal species on or near the site.

d. Proposed measures to preserve or enhance wildlife, if any:
   Project construction would occur primarily during the summer months when rainfall is minimal. This would minimize erosion and prevent sedimentation of surface waters. Bare soil areas would be revegetated and planted after site grades have been established.

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? Please describe whether it will be used for heating, manufacturing, etc.
      N/A
   b. Would your project affect the potential use of solar energy by adjacent properties? If so, please 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:
   
   No signal is proposed with the roundabout design.

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, please describe.
   
   No.

   1. Describe any known or possible contamination at the site from present or past uses.
      
      None known.

   2. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.
      
      There are no existing hazardous chemicals or conditions that are expected to affect the construction of the intersection improvements.

      There are no major transmission pipelines in the project area. Puget Sound Energy (PSE) operates a 4-inch STW HP (Steel Wrapped High Pressure) gas line on 84th St NE.

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

   4. Describe special emergency services that might be required.
      
      None known.

   5. Proposed measures to reduce or control environmental health hazards, if any:
      
      None proposed.

   b. Noise:

      1. What types of noise exist in the area which may affect your project (i.e., traffic, equipment, operation, aircraft, other)?
         
         No noise in the area would affect the proposed roadway improvements. Typical roadway noise associated with an intersection is expected.

      2. What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (i.e., traffic, construction, operation, other)? Indicate what hours noise would come from the site.
         
         During construction, there will be increased, short term noise levels generated by heavy equipment. These noise levels are likely to exceed existing background noise levels. Construction generally occurs between 7:00 a.m. and 5:00 p.m., Monday through Friday.
3. Proposed measures to reduce or control noise impacts, if any:
   Construction would normally be limited to hours established by Snohomish County permit conditions. Equipment used would meet Occupational Safety and Health Administration (OSHA) and other applicable noise standards.

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

   The south side of the intersection is rural residential properties. The northeast side of the intersection includes a Snohomish County Fire Station and a private tree farm. The northwest corner of the intersection is also rural residential.

   b. Has the site been used as working farmlands or working forestlands? If so, please describe. How much agriculture or forestland 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 forestland tax status will be converted to non-farm or non-forest use?

   The Lervik’s Christmas Tree Farm is located on the northeast corner of the intersection, adjacent to the Snohomish County Fire Station. The tree farm is actively growing trees. Mature trees will be sold in 2020 with plans to save some for future years. See website: http://www.lervikschristmastrees.com

   The property at the northwest corner is residential. There is a large field of mowed grass adjacent to the intersection. Aerial imagery as far back as 1990 shows no sign of it being used for working farmlands or working forestlands. (Furthermore: County aerial photographs since 1947 show no trees or structures in this particular area.)

   1. Will the proposal affect or be affected by surrounding working farmland or forestland’s normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

   The proposal would not affect, or be affected by, working farmlands or forestlands.

   c. Describe any structures on the site.

   There are no structures on the site.

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

   A section of the roadway will be removed and reconstructed. No structures will be demolished.

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

   The zoning on the northwest corner is Rural Conservation (RC). The zoning on the other three corners is Rural 5-acres (R-5).

   f. What is the current comprehensive plan designation of the site?
The current comprehensive plan designation is Urban Medium Rural Residential on the north side of the intersection. The south side of the intersection is Rural Residential (1 dwelling unit/5 acres Basic).

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

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

i. Approximately how many people would reside or work in the completed project?
   None.

j. Approximately how many people would the completed project displace?
   It is anticipated that the project would not displace residents. The project would require right-of-way acquisitions to accommodate the proposed improvements. The project may also require temporary construction easements to construct the improvements.

k. Proposed measures to reduce or control impacts to nearby agricultural and forestlands of long-term commercial significance, if any:
   During construction of the proposed improvements, single lane closures may be needed. The movement of agricultural or forest products on this roadway, along with all other users, may be temporarily delayed. Full road closures are not proposed.

l. Proposed measures to ensure the proposal is compatible with existing projected land uses and plans, if any:
   This project is consistent with the Snohomish County Growth Management Act Comprehensive Plan – 2007 Transportation Element. It is identified in the Snohomish County Transportation Improvement Program for 2018-2023 as a corridor improvement. This project will provide an improved intersection and east-west connection between the cities of Marysville and Granite Falls.

m. Proposed measures to avoid or reduce displacement, if any:
   The proposed roundabout will require right-of-way to be purchased. Approximately 32,500 square feet (0.75 acres) of right-of-way will need to be acquired for the proposed project. This includes area for the proposed stormwater facility. The existing right-of-way within the project limit is approximately 81,500 square feet. The proposed right-of-way would be about 114,000 square feet. There will be minimal impacts to the SE and SW corners of the intersection.

   A set of right-of-way plans will be developed. Chapter 8.25 and 8.26 of the Revised Code of Washington (RCW) would govern right-of-way acquisition
proceedings. These laws ensure fair and equitable treatment to those affected. In addition, right-of-way purchases would be in accordance with Civil Rights Act Title VI legislation and the federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 as amended (42 U.S.C.). These laws would provide payment for reasonable and necessary costs to relocate persons displaced by the project and ensure prompt and fair relocation payments and requires agency review of aggrieved parties. Acquisition proceedings include appraisal, determination of just compensation, presentation of an offer and compensating the individual. Acquisition proceedings within the project vicinity would not be initiated until the environmental review process has been completed.

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

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?
       None proposed.
    b. What view in the immediate vicinity would be altered or obstructed?
       No view would be altered or obstructed.
    c. Proposed measures to reduce or control aesthetic impacts, if any:
       None proposed.

11. Light and Glare
    a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
       New luminaires will be installed at the intersection as part of the roundabout project.
    b. Could light or glare from the finished project be a safety hazard or interfere with views?
       The proposed improvements would not pose a safety hazard or interfere with views. All proposed lighting would comply with Illuminating Engineering Society (IES) standards for roadway illumination that minimizes glare impacts.
    c. What existing off-site sources of light or glare may affect your proposal?
Existing off-site sources of light or glare would not affect the proposal.

d. Proposed measures to reduce or control light and glare impacts, if any?
   The street lighting proposed at the intersection of 84th Street NE and 163rd Ave NE is to provide a safe level of lighting and to meet light level requirements for a roundabout intersection. The proposed lights are a flat lens cobra style luminaire which is a full cut-off fixture. It ensures that light is directed below the horizontal minimizing light trespass and helps to reduce sky glow.

12. Recreation
   a. What designated and informal recreational opportunities are in the immediate vicinity?
      The nearby Tree Farm provides an opportunity to select and cut a Christmas Tree.
   b. Would the proposed project displace any existing recreation uses? If so, please describe.
      No
   c. Proposed measures to reduce or control impacts on recreating, including recreation opportunities to be provided by the project or applicant, if any:
      None proposed.

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, site, or local preservation registers located on or near the site? If so, please general describe.
      No buildings will be impacted by the proposed intersection improvements.
   b. Are there any landmarks, features or other evidence of Tribal 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.
      The project area was screened for proximity to known cultural sites. Although no recorded sites are located where ground disturbing activities are planned, several recorded sites are in close proximity to the proposed project. An archeological investigation was conducted by the Snohomish County archeologist in October 2020. No artifacts were discovered.
   c. Describe 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.
      An archeological survey was conducted at the site by the Snohomish County archeologist and members of the Tulalip Tribe. A report will be prepared to document findings of the survey. Monitoring by the Snohomish County archeologist or consultant is recommended during construction of the project.
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:

Although no known archaeological sites are on the proposed site, the close proximity to other sites does not rule out the possibility that unrecorded cultural resources could be present in the vicinity. Monitoring during construction is recommended at this site. If cultural materials or resources are encountered, the construction crew should suspend work and contact Crilly Ritz at 425-262-2476 or the Environmental Services Supervisor at 425-388-3487. If suspected human remains are found, all work MUST CEASE. The Snohomish County Medical Examiner, County Archaeologist, Native American tribe(s) and the Washington State Department of Archaeology and Historic Preservation will be notified immediately.

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 site is at the intersection of 84th Street NE and 163rd Avenue NE. Just east of the intersection 84th Street NE connects with State Route 92 and with 161st Ave NE to the south. The roads in this area serve the communities of Granite Falls, Marysville and surrounding rural areas.

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

There is currently no transit service at this intersection. Community Transit Route 280 serves Granite Falls on State Route 92. The nearest bus stop to the project site is on SR 92, approximately 0.16 miles east.

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

No parking spaces are proposed.

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

The proposal would construct a roundabout at this intersection to improve traffic flow and safety. The roundabout would have a 55-foot diameter center island, 15-foot-wide inside truck apron, and a 20-foot circulating roadway. Outside truck aprons would be added to the NE, NW and SW edges of the circulating lane to accommodate long combination hauling vehicles. The approach lanes would be 12-feet wide with chicanes designed to reduce approach speeds. The number of lanes would remain the same, but the intersection would be realigned and slightly raised to allow proper drainage. Pedestrians and bicycles will be accommodated as part of the roundabout design. A shared use, raised concrete sidewalk would be constructed as part of
the roundabout. The sidewalk would be 10-feet wide with a 2-foot buffer strip and would be used by both bicycles and pedestrians.

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

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 or non-passenger vehicles). What data or transportation models were used to make these estimates?
   No additional traffic would be generated by the completed project.

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, please generally describe.
   During construction of the proposed improvements, single lane closures may be needed. The movement of agricultural or forest products on this roadway, along with all other users of this roadway, would be temporarily delayed. Full road closures are not proposed.

h. Proposed measures to reduce or control transportation impacts, if any:
   During construction of the proposed improvements, traffic control would be needed. A detailed traffic control plan would be developed.

15. Public Services
   a. Would the project result in an increased need for public services (i.e., fire protection, police protection, public transit, health care, schools, other)? If so, please generally describe.
      No additional or increased need for public services would result from this project.

   b. Proposed measures to reduce or control direct impacts on public services, if any.
      Traffic control during construction would be planned, sequenced, and administered to allow continuation of basic services during construction activities in the public right-of-way. The existing roadways in the project area would remain open to traffic during construction, although traffic may potentially be subject to one-lane closures during active construction to avoid conflicts with construction that could pose a safety hazard. There could be potential short-term closures of existing roadways with well-defined detour routes used as needed during roadway closures.

16. Utilities
   a. Check all utilities currently available at the site:
      ✓ Electricity
      ✓ Natural Gas
      ✓ Water
      ✓ Refuse Service
b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site of in the immediate vicinity which might be needed.

No new utilities are proposed 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: Mary Auld
Printed name and Digital Signature: Mary Auld
Position and Agency/Organization: Snohomish County Public Works/Transportation and Environmental Services
Date Submitted: December 9, 2020
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Figure 1. Project Area