

SCOPE OF SERVICES

Tipping Floor

Chelan County Public Works Solid Waste

PROJECT DESCRIPTION

Chelan County Public Works proposes constructing a second tipping floor at the Dryden Transfer Station, 9073 Highway 2. This site, west of Wenatchee and near the town of Dryden, is a primary disposal site for the western areas of the county.

Chelan County Public Works is issuing this request for the design and engineering required to construct a second retaining wall and tipping floor, where the public can safely unload garbage into a transfer truck trailer. A professionally licensed civil engineer is being sought for services in developing the design, estimate, bidding documents and construction drawings for the construction of a new tipping floor. Specifications and detailed construction drawings shall be prepared for the advertisement for a construction contractor by January 2018.

DESIGN COMPONENT

Design standards should follow all state and federal laws, International Building Code requirements and Washington State Department of Transportation standards. Standards for construction design should take into consideration any new updates and upcoming regulations, including permit preparations.

Site improvements include preparing the site for the structure, excavation and demolition; constructing a retaining wall, surfacing, asphalt, a covered roof for protection; and/or other required specific improvements.

The project shall include a 50-foot long tipping area for trailer loading, with secure swing gates for public safety and that's accessible for equipment. Construction materials shall be concrete and steel, with exterior finishes that meet current regulations. Contract shall include necessary demolition of existing structures, excavation, site surveying, leachate collection, stormwater run on and run off, litter control and safety provisions.

The facility must be designed, permitted, constructed, maintained and operated to minimize the possibility of a fire, pollution and/or accidents. Provisions must be included to protect people, air, soil or surface water that could threaten human health or the environment. It must be in accordance with definitions of Washington Administrative Code (WAC) 173-350-100.

Site Utilities:

- a) Stormwater collection, and, if allowed, discharge into the existing regional storm drain. This determination will be based upon the stormwater drainage analysis results and Chelan County Code Chapter 13.16 and Chapter 13.18.
- b) Leachate extension from the loading site to the leachate tank.

c) Fire and/or smoke alarms to the site and distributed as needed.

Site grading to allow for tipping floor, asphalt, retaining wall and stormwater drainage.

Traffic circulation for both drop-off (intake) and export of collected materials. Asphalt access for both the public and the truck hauling out, with limited conflict.

Assist the County with the process for obtaining the Building Permit and SEPA. County may assist with stormwater permit, Pollution Prevention Plan and, if necessary, NPDES permit.

Evaluate the most feasible and efficient location for a second wall. Evaluate the options with Chelan County staff.

The facility will have an impervious surface for the public unloading area, with extra strength concrete to withstand erosion, equipment and oil spills. The design of the facility should have appropriate room for multiple vehicles unloading and sufficient guards for the loading of trailers while preventing spillage outside of the trailer. The facility should be constructed of materials that are chemically compatible with the municipal solid waste. And concrete floors shall be sealed to prevent excessive erosion of concrete.

Be accessible by all-weather roads and safeguard multiple vehicles utilizing the same area for entering and backing into unloading areas.

Include a design of covered area over the truck trailer with spill guards.

Provide for an alarm system that warns for fire, smoke or toxic gas releases.

Have a catch drain underlying the trailers that is free of cracks or gaps and is sufficiently impervious to contain leaks, spills and accumulated precipitation. The base shall be sloped or the containment system shall otherwise be designed and operated to drain and remove liquids resulting from leaks, spills, precipitation and connect to existing leachate tank, or if the existing tank is not adequate, a new leachate tank will be designed for placement and connection, with the ability to be monitored for fullness level.

Prevent run-on and control run-off from a 25-year storm, as defined in Chelan County Code Chapter 13.16 and Chapter 13.18.

Provide directional signage for public use throughout facility, to include any necessary pavement painting, directions or delineation.

Be constructed with necessary wiring, fixtures, lights, switches and other electrical components as required by local and state regulations.

Compliant with Chelan County fire code and/or the department of labor and industries.

Provide plug in for truck or other equipment accessible near where the front of the truck will be parked for loading.

Access and exit(s) appropriate to the working environment, including ladder or steps for access from the bottom truck floor to the top of tipping floor.

Attempt to utilize any green/sustainable construction and operation techniques when cost effective to include:

- a. Site development
- b. Use of recycled materials (i.e. recycled asphalt/aggregate or crushed glass for base material)
- c. Light pollution reduction and efficiency (i.e. lightning sensors)
- d. Construction staging to minimize disruption to services during construction

DELIVERABLES:

1. Concept designs submitted for review and approval.
2. Preliminary plans (30% and 60%), final plans, specifications (based on current WSDOT Standard Specifications format) and construction cost estimates suitable for inclusion into public bid documents.
3. Site construction preparation, including surveys, excavation and any demolition specifications.
4. Environmental coordination and permit preparation. Include a drainage analysis based upon Chelan County Code chapter 13.16 and 13.18 submitted by a licensed civil engineer and approved by the Chelan County Public Works Department. Prepare NPDES Construction stormwater permit, stormwater Pollution Prevention Plan and specifications for construction contract to inspect/monitor and report during precipitation events, and any resulting stormwater permit, if required a NPDES.
5. Limited assistance with public bidding process. Contract administration support for County building permit, meetings and inspections. County shall pay for building permit and stormwater permit fees.
6. Construction plans. (Bid documents and blueprints shall be prepared, final documents will be in three copies and an electronic version shall be provided to the County).
7. Construction inspection services if needed.
8. As-builts. Any corrections done as a result of oversight or alternatives authorized shall be noted on blue prints and provided to the County at completion of construction.
9. Corrections to plans provided shall be made at no additional cost if caused by oversight of Consultant.

Owner to pay for permit, application and similar fees and advertisement costs as required for the project.

Consultant may provide under separate agreement or as an amendment to this agreement as supplemental services: Soils report, cultural review if determined to be required or facility operation plan.