



CIVIL SUBMITTAL REQUIREMENTS AND STANDARDS

Plan Submittals:

- All plans and reports shall be prepared, stamped and signed by an Engineer, licensed in the State of Washington.
- All site/civil plans shall be 22"x34".
- Plans shall be prepared to 1" = 10', 1" = 20', or 1" = 30' scale. The vertical scale for profiles shall be 1" = 5' (or 1" = 10' for steep slopes).
- Drafting standards and symbols shall conform to Washington State APWA Chapter CAD Standards.
- Plans shall include a north arrow.
- A vicinity map shall be located on the title sheet.
- The Professional Engineer's seal and original signature shall be located in the title block on each plan sheet.
- The Surveyor's seal and original signature shall be located in the title block on the survey control plan.

Required Site and Topographic Information:

- Existing contours shown as dashed lines at minimum 2-foot intervals. Proposed contours shown as solid lines at minimum 2-foot intervals.
- Show onsite benchmark location and provide description of item.
- Property lines shown with bearings and distances and ties to controlling corners or subdivision corners.
- Location, size and type of any existing or proposed structures, impervious areas, drainage facilities, wells, drain fields, drain field reserve areas, roads, pavement striping, signs, easements, and utilities on the site. Clearly differentiate between proposed and existing.
- Existing and proposed drainage pattern(s), storm drainage and LID facilities (ie., ditch lines, culverts, catch basins, French drains, surface drainage or sheet flow arrows). Clearly differentiate between proposed and existing.
- Flow arrows on pipes for all existing and proposed gravity systems including but not limited to storm drainage and sanitary sewer.
- Location of all property boundaries, easements and structures on site.
- Location of all wetlands, water bodies, streams, native growth protection areas (NGPAs), and critical areas within 100 feet of the site, including all setbacks and buffers. Include off-site critical areas.
- Boundaries or limits of site disturbance, clearing and grading.
- Location and type of soils and vegetative cover, before and after development.
- Location and type of existing and proposed water quality control facilities or low impact development measures such as detention ponds, rain gardens, roof gardens or other BMP devices.

Required Erosion Control Information:

- Location and type of proposed measures (BMPs) for Temporary Erosion and Sedimentation Control (TESC) or Stormwater Pollution Prevention Plans (SWPPP).
- Identify the Certified Erosion Control Specialist who will be monitoring the site on a regular basis.
- General notes and drainage notes and specifications or references to compliance with City of Snohomish standards and the WSDOT/APWA Standard Specifications, materials specifications for the construction of the project.
- Grading quantities shall be shown on the plan, showing both cut and fill quantities in cubic yards,
- Grading shall comply with the requirements of Chapter 18 of the International Building Code, City of Snohomish Engineering Standards and the Snohomish Municipal Code (SMC).
- Hydraulic Project Approval (HPA) summary information or permit conditions shall be attached or affixed to the plans and specifications, if work is within ordinary high water mark (OHWM) of a stream or river.
- All projects which impact WSDOT and Snohomish County rights-of-way shall secure the necessary permits from either the State or County.
- Note "Call 1-800-424-5555 Before You Dig" on the plans in a prominent location.



Road Information:

- Road names identified – Official street/road names in the project shall be used if known. Otherwise, name streets and roads by letters in construction plans. Official street/road names shall be included in as-built plans.
- Road alignment with 100 foot stationing and stationing at PTs and PCs with bearing and distances on centerlines. Establish base line or centerline adequately dimensioned from at least two known reference points or monuments approved by the City of Snohomish.
- Right-of-way lines and widths for existing and proposed road and intersecting roads.
- Curve data, at least three elements (radius, delta, arc length or tangent distance) on all curves. These may be shown in a curve table.
- Show details of frontage improvements on separate plan sheet.
- Limits of existing and proposed paving.
- Typical roadway sections of existing or proposed roads to be improved plus their functional road classifications and posted/design speeds.
- Driveway schedule for a proposed development with three or more access points, including length, width, surface type and location.
- Existing and proposed monumentation.

Profile:

- Original ground lines with elevations at 100-foot stations and at significant grade breaks extended 100 feet beyond the property line.
- Final road and storm drain profile with stationing, same as horizontal plan extended 100 feet beyond the property line.
- Vertical curve elevation and stations of vertical PI, PC, and PT(s), sag (low point) and crest (highpoint), and grade breaks shown.
- Design of roadway extended 100 feet beyond project (match existing driveway profiles at road connection).

Water:

- Locations and sizes of existing and proposed water lines, meters, hydrants, valves, fittings and services.
- Station, offset and a detailed callout of all hydrants, valves and fittings.
- For utility crossings which involve vertical offsets in the water line, provide details showing the crossing, including vertical bends, blocking, shackle rods, other restraints and pipe invert elevations.
- Fire Hydrants shall be clear of all obstructions, including landscaping or other interfaces, for a minimum of 3 feet around the hydrant.
- Include water notes in the water section of the plans.
- Show existing and proposed water easements.
- Show locations of all existing wells.

Sewer:

- Locations and sizes of existing and proposed sewer lines, manholes, cleanouts and services.
- Station and offset of all manholes, cleanouts and services.
- Slope and invert elevations of existing and proposed pipe.
- Show the sewer service locations in linear feet from the nearest downstream manhole.
- Use flow arrows on sewer lines to indicate the direction of flow.
- Show all utility crossings in plan and profile.
- Include sewer notes in the sewer section of the plans.
- Show existing and proposed sewer easements.
- Show locations of all existing septic systems to be decommissioned.