

SURVEY AND BASEMAP CHECKLIST

Effective Date 12/7/2021

SDOT Project #: _____ DCI Project #: _____

Project/Site Address: _____

Applicant Name: _____

Surveyor's Name: _____

A complete survey and basemap is required along with the 60% SIP Submittal. The survey control and the basemap sheets must be part of the 60% SIP Plan set without any proposed improvements shown. The survey control and basemap sheets must be on SDOT SIP Title block. The survey control and basemap must be stamped by a Land Surveyor.

I verify that my survey and basemap is complete and that it meets all survey and basemap requirements in the Applicant Guide 2003: SIP Survey and Basemap. I further verify that the survey meets all standards of practice. I acknowledge that failure to submit a complete survey and basemap will result in my plan not being accepted for SIP Design Guidance and/or formal review.

Applicant Signature: _____ Date: _____

Land Surveyor Signature: _____ Date: _____

SURVEYOR MUST COMPLETE ENTIRE CHECKLIST

DRAFTING REQUIREMENTS

- | | |
|---|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> All abbreviations, shading & symbols, and line weights for all existing improvements are shown using Standard Plans No 002 & 003. <input type="checkbox"/> The survey is stamped and signed by a Washington State Licensed Land Surveyor. <input type="checkbox"/> All information provided is readable. <input type="checkbox"/> Sheet size is 22" x 34". <input type="checkbox"/> The north arrow is oriented with plan north to the left or the top of the sheet. <input type="checkbox"/> The minimum scale on the survey is 1" = 40'. <input type="checkbox"/> A bar scale is provided and is scalable. | <ul style="list-style-type: none"> <input type="checkbox"/> The lettering is a minimum 0.08". <input type="checkbox"/> Each street frontage is labeled with the street name. <input type="checkbox"/> The project limits are marked and identified. <input type="checkbox"/> The survey and basemap is shown for the entire right of way, 10 feet into the property being developed and 50 feet beyond the project limits. <input type="checkbox"/> The entire intersection including all four corners up to 20' beyond the point of tangency of each curb return or roadway edge must be included in the survey for projects adjacent to an intersection. <input type="checkbox"/> If improvements will be made to an unopened or unimproved alley, the survey boundaries must extend to the intersecting street(s). |
|---|---|

CONTROL PLAN REQUIREMENTS

- Current NGS Vertical Datum (including date of survey).
- At least two (2) vertical benchmarks are shown and included in the surveyor's notes in the following format. One must be the nearest City of Seattle published benchmark. The rest may be site benchmarks.

VERTICAL DATUM BENCHMARK

OWNER: _____
IDENTIFIER: _____
DESCRIPTION: _____
LOCATION: _____
ELEVATION: _____

- Current NGS Horizontal Datum (including epoch date).
- Basis of Bearings for horizontal control
- At least two monuments are shown for each street frontage and included in the surveyor's notes in the following format:

HORIZONTAL

CONTROL POINT: _____
IDENTIFIER: _____
DESCRIPTION: _____
LOCATION: _____
SCALE FACTOR BASIS: _____
northing: _____ easting: _____
SCALE FACTOR: _____
ELEVATION FACTOR: _____
COMBINED GRID FACTOR: _____

- If no monuments exist, then other documentation and reference materials are provided for the alignment of each street frontage.
- Source references and methods used to determine right of way are documented and provided. Examples of documentation include but not limited to: King County Record of Surveys, Superior Court Decisions, City Ordinances, recorded deeds, etc. City of Seattle Engineering Quarter-Section maps are not an approved reference resource.
- Lines referencing the ROW, centerlines, monument lines, property lines, easements, and rights in real property are shown and identified with bearing & distance.

- Roadway stationing shown along centerline alignments, with equation points shown at intersecting alignments and monuments.
- Radius, delta angle, and curve length are shown for any curving lines. Radial bearings for non-tangent curves shall be shown.
- Dimensions from monument lines to right of way lines are shown for each side of the right of way.
- If the monument line and the construction centerline are not the same, dimensions from the monument line to the construction centerline are shown.

TOPOGRAPHIC SURVEY REQUIREMENTS

- The existing contours are shown.
- Spot elevations are shown at least every 25 feet at the crown, flow line, top of curb and property line.
- Existing building outlines on the project site that are within 10 feet of the right of way are shown.

PRIVATE ENCROACHMENTS

- All private encroachments in the right of way such as fences, rockeries, and retaining walls are shown. Note location, type, length, width, and heights at end and mid points.

ROADWAY STRUCTURES

- The location, length, and width of any existing areaways are shown.
- The location, length, width and spot elevations on the top and base of any traffic barriers and guardrails are shown.
- The location, length, width, and spot elevations on the decks of any bridges are shown. Locations of all supporting elements are shown.
- The location, length, width, and spot elevations on the top and bottom of any retaining walls and rockeries are shown.
- The location, length, width, and top and bottom elevations of any stairs are shown.

PAVEMENT, SIDEWALKS AND CURBS

- The edge of existing pavement is shown and the pavement type is identified.
- All curb ramp locations are shown including wings and truncated domes.
- Spot elevations are shown for each side of the curb ramp at the flow line, top of curb ramp, and property line for all existing curb ramps.
- All curbs are shown and type is called out.
- Joint layout is shown for all concrete pavement.
- All cement concrete sidewalks are shown and identified.
- All pedestrian pathways are shown with material type identified.
- All driveways are shown including the wings and the elevations at the flow line, back of walk, and property line are noted.

LANDSCAPING AND TREES

- All existing trees within the right of way and adjacent to the right of way are shown.
- The drip lines of all existing trees are shown.
- All existing planting areas within the right of way are shown.
- All existing water features are shown.

WATER, SEWER AND DRAINAGE INFRASTRUCTURE

- All mainlines are shown, noted as PSS, PSD, or PS.
- All catch basins with type are shown and rim and invert elevations are noted.
- All inlets with type of structure are shown and rim and invert elevations are noted.
- All maintenance holes with type of structure are shown and rim and invert elevations are noted.
- Structures with more than one pipe entering or exiting the structure are identified with invert

- elevations and direction of all pipes.
- All water mainlines are shown identified with type and size.
- All water structure elements (valves, etc) are shown and identified.
- All water meters are shown and identified.
- All water vaults are shown and identified.
- All King County Sewer Mains are shown and identified with type and size.
- All side sewer and service drains are shown and identified with type and size.

METRO, LIGHTING, AND ELECTRICAL INFRASTRUCTURE

- Street and pedestrian light poles are shown and identified.
- All poles are shown and identified with material type and owner if possible (SCL, Metro, SDOT, etc.).
- All Metro Transit trolley lines are shown and identified.
- All Metro Transit bus stops and/or layover facilities are shown and identified.
- All hand holes, maintenance holes and vaults for street and/or pedestrian lighting, SCL infrastructure, and Metro infrastructure are shown and identified.
- All overhead and underground conduits, cables, and wires for street and/or pedestrian lighting, SCL infrastructure, and Metro infrastructure are shown and identified with owner if possible (SCL, Metro, SDOT, etc.).
- If modifications to King County Metro or SCL lighting or electrical infrastructure are proposed, all underground conduit sizes and types are identified.

PRIVATE UTILITIES

- All overhead and underground conduits, cables, and wires are shown and identified with owner.
- All poles are shown and identified.
- All utility vaults are shown and identified.
- All utility hand holes are shown and identified.
- All utility maintenance holes are shown and identified.
- If modifications to private utilities are proposed, all underground conduit sizes and types are identified.

PARKS

- All Parks properties adjacent to the property being developed are shown and identified.
- All designated Parks boulevards or ROWs adjacent to the property being developed are shown and identified.

TRAFFIC ELEMENTS

- If modifications to traffic elements are proposed, all overhead infrastructure and underground conduit sizes and types are identified.
- All signal equipment (signals, controllers, detector loops, etc) including above and below grade items are shown and identified.
- Spot elevations at all four corners for all signal equipment foundations are shown.
- All overhead and underground conduits, cables, and wires are shown and identified.
- All traffic striping and markings are shown and identified.
- All pay stations and parking meters are shown and identified.

BASEMAP REQUIREMENTS FOR SIP DRAWINGS

- The horizontal scale for the base map is 1"=10' unless otherwise approved by SIP PM.
- The source information used for identifying all underground utilities (including SPU Infrastructure, Metro, lighting and Electrical, private utilities, traffic elements etc) is provided on a separate source list. Sources may include: potholing, side sewer cards, utility and franchise maps etc.

SIP PROJECT MANAGER SCREENING COMMENTS:
