



**60% COMPLETE STREET
 IMPROVEMENT PLAN (SIP)
 CHECKLIST**
 Effective Date 4/5/2010

SDOT Project # _____ DPD Project # _____

Project/Site Address: _____

Applicant Name _____

Approval of a 60% Complete Street Improvement Plan is required for projects that contain non-standard elements in the right of way as identified in CAM 2213. 60% Complete Street Improvement Plan (SIP) Approval is obtained through the SDOT SIP Design Guidance Process. See CAM 2211 and 2213 for more information.

I CERTIFY THAT MY 60% COMPLETE STREET IMPROVEMENT PLAN MEETS ALL OF THE REQUIREMENTS ON THE 60% COMPLETE SIP CHECKLIST. I UNDERSTAND THAT MY PLANS WILL BE REJECTED IF I FAIL TO MEET THESE REQUIREMENTS.

Applicant Signature: _____ Date: _____

Civil Engineer Signature: _____ Date: _____

THE FOLLOWING CHECKLIST MUST BE COMPLETED AND SUBMITTED WITH THE 60% COMPLETE STREET IMPROVEMENT PLAN.

THE DPD LAND USE CODE REQUIRED STREET IMPROVEMENTS ARE IDENTIFIED AND I HAVE ATTACHED THE MOST CURRENT DOCUMENTATION:

- The DPD Preliminary Assessment Report (PAR).
- The DPD published MUP Decision and plan sheets showing improvements within the right of way.
- The DPD Land Use Zoning Correction letter from the initial DPD Land Use Zoning review.
- Other: _____

BASE MAP AND SURVEY

- A separate Base Map and Survey Plan Sheet(s) are provided along with a completed Base Map and Survey Checklists.

OR

- The Base Map and Survey Checklist and Plan Sheet(s) were submitted and approved during previous SDOT SIP Design Guidance Meetings.

PLAN REQUIREMENTS

- The plans are on SDOT 60% Complete Street Improvement Plan title block; sheet size is 22" x 34".
- All abbreviations, shading & symbols for all proposed improvements are shown using Standard Plans No 002 & 003.
- For items that do not have standard abbreviations, shading and/or symbol a legend is provided.
- The plans are stamped by a Washington State Licensed Engineer.
- All decisions made during Design Guidance Meetings have been incorporated into the plan.
- The entire scope of work within the right of way is identified including DPD Land Use Code required improvements, discretionary items that are an outcome of the MUP process, and any proposed improvements that are not required by the Land Use Code.

- Placement and dimensions of all proposed elements such as roadway, curb, sidewalks, street trees, water meters, side sewers, utility vaults, poles (SDOT, SCL, METRO), curb returns, curb ramps, main line extensions, ditches, swales, detention systems, etc. are shown.
- Distances between all plan elements are shown and clearances have been met in accordance with the Right of Way Improvements Manual.
- Curve radii for all proposed curves are identified.
- The building footprint and finished floor elevations are shown.
- Location and elevations for all access points, both pedestrian and vehicular, are shown.
- All building overhangs and subterranean structures encroaching within the right of way are shown, identified, and dimensioned.
- Elevations for the flow line, top of curb, back of walk, property line and access points are shown at the centerline of each access point, both vehicular and pedestrian.
- All proposed channelization, traffic markings, marked crosswalks and/or stop bars are shown.
- All proposed signage is shown.
- The location and dimension of all proposed dedications are shown.
- The location and dimension of all proposed setbacks for right of way purposes are shown.
- The location and dimension of all proposed easements are shown and identified.
- All proposed street trees and landscaping within the right of way are shown.
- All proposed utilities both public and private (side sewers, gas lines, conduits, etc) are shown.
- All water services, water vaults, and connection points are shown and:
 - The size, type and location of all water services and vaults are identified.

- All proposed sidewalk/street furniture is shown.

IDENTIFY ALL OF THE NON-STANDARD PROJECT ELEMENTS FOR WHICH YOU ARE REQUESTING 60% COMPLETE SIP APPROVAL:

- Encroachments in the right of way;
- Traffic Calming Devices;
- Traffic Circles;
- Curb Bulbs;
- Curb Setbacks;
- New and/or Modified Curb Alignments;
- New and/or Modified Curb Returns;
- Newly established Roadway Widths;
- New and/or Modified Roadway Alignments;
- New and/or Revised Channelization;
- Curbs that do not meet Standard Plan 410;
- Pavement Sections that do not meet the PORR;
- Sidewalks that do not meet Standard Plan 420;
- Permeable Sidewalks;
- Driveways that do not meet Standard Plan 430;
- Cross Sections that do not meet Standard Plan 030;
- Roadway and/or alley grades that exceeds the criteria in the Seattle Right of Way Improvements Manual.
- Bike Trails and/or Paths;
- New Marked Crosswalks;
- Green Factor Areas and Elements;
- More than 2,000 SF of new plus replaced impervious surface;
- Rain Gardens;
- Unimproved Alley;
- Alleys with closed contours;
- Detention Systems;
- Water Quality Features;

- PSD Main Lines;
- PSS Main Lines;
- Drainage Swales;
- Water Mains;
- New and/or Modified Retaining walls greater than 4' tall;
- Stairs that do not meet Standard Plan 440;
- Rock Facings that do not meet Standard Plan 141;
- New and/or Modified Areaways;
- New and/or Modified Bridges;
- New and/or Modified Signal Systems;
- New and/or Modified SCL Infrastructure;
- New and/or Modified Metro Transit Infrastructure;
- New and/or Relocated Poles;
- New and/or Relocated Street Lighting and/or Pedestrian Lighting.
- Other:

THE NON-STANDARD ELEMENTS REQUIRING ADDITIONAL INFORMATION TO BE SUBMITTED AND/OR SHOWN ON THE STREET IMPROVEMENT PLANS ARE LISTED BELOW:

ENCROACHMENTS

- The location and dimensions of all private encroachments into the right of way are shown.

RETAINING WALLS, AREAWAYS, STAIRWAYS AND OTHER ROADWAY STRUCTURES

- A complete layout including plan, profile, and cross sections are provided.
- A Geotech Report is provided (if applicable).
- The design criteria used is identified on the plans.
- All required handrails and fences along or on top of structures are shown.

GREEN FACTOR ELEMENTS

- Cross sections and details for all proposed Green Factor elements are provided.
- All areas proposed for Green Factor elements are clearly identified and dimensioned.
- All plant materials proposed for Green Factor elements are clearly identified with location and species. (Planting details may be submitted on a separate Landscape plan per CAM 2201.)

For additional Green Factor elements see the Permeable Pavement for Sidewalks and the Bio-Retention Sections below.

MORE THAN 2,000 SF OF NEW PLUS REPLACED IMPERVIOUS SURFACE

- Stormwater Technical Information Report
- Green Stormwater Infrastructure Calculation Worksheet

For additional Stormwater Code elements see the Permeable Pavement for Sidewalks, Bio-Retention, Detention, and Water Quality sections below.

PERMEABLE PAVEMENT FOR SIDEWALKS (Only allowed if used to meet Storm Water Code Compliance and if the installation is equal to or greater than 2,000 sq. ft. and/or one block length of contiguous permeable pavement in the ROW)

- The permeable pavement is designed per the Latest Draft Storm Water Code available at:
http://www.seattle.gov/dpd/Planning/Stormwater_Grading_and_Drainage_Code_Revisions/ProposedChanges/default.asp
- A Geotech Report is provided and:

- The Geotech Report states that the existing soil conditions are suitable for proposed permeable sidewalk;
- The Geotech Report identifies the native soil infiltration rate;
- The Geotech Report identifies the ground water table.
- A Storm Drainage Report with calculations is provided describing the Code elements that the proposed permeable pavement is being used to fulfill and:
 - The Storm Drainage Report states the infiltration rate on the surfacing and storage area materials.
- Material specification for all proposed permeable pavement materials are provided including:
 - Permeable course;
 - Reservoir sub-base;
 - Geotextile type and source.
- Cross section showing the permeable pavement section is provided.
- If there are existing trees in the right of way the plans show how the proposed permeable pavement is designed to work with the existing trees.

BIO-RETENTION ELEMENTS (Swales and Rain Gardens)

- The bio-retention element is designed per the Latest Draft Storm Water Code available at: [http://www.seattle.gov/dpd/Planning/Stormwater Grading and Drainage Code Revisions/ProposedChanges/default.asp](http://www.seattle.gov/dpd/Planning/Stormwater%20Grading%20and%20Drainage%20Code%20Revisions/ProposedChanges/default.asp) With the exception that sizing factors for the bottom/facility area do not need to be achieved (Table 4.9).
- Bio-retention elements are shown, identified, dimensioned, and:
 - Overflow details are provided;
 - Discharge point is indicated;
 - All plant materials are identified;
 - If there are existing trees in the right of way the plans show how the proposed

bio-retention element is designed to work with the existing trees.

- A Geotech Report is provided and:
 - The Geotech Report states that the existing soil conditions are suitable for the proposed bio-retention elements;
 - The Geotech Report identifies the native soil infiltration rate;
 - The Geotech Report identifies the ground water table.
- A Storm Drainage Report with calculations is provided describing the Code elements that the proposed bio-retention elements are being used to fulfill and:
 - The Storm Drainage Report states the infiltration rate of the bio-retention soil.
- Material specifications for all materials proposed for bio-retention elements are provided including:
 - Bio-retention soil;
 - Aggregate sub-base if under drain is proposed.

DETENTION SYSTEMS in ROW

Detention is required if the amount of new plus replaced impervious roadway surface exceeds 10,000 SF and the project is in a combined sewer basin, capacity constrained basin, or creek basin.

- A Storm Drainage Report with calculations for sizing the detention system is provide
- SPU Hydrostats Report, the Pre-Sized Flow Control Calculator can be used to projects less than 10,000 square feet.
- The design and layout of the detention facility is shown in both plan and profile.
- A Geotech Report is provided if the detention system is located in an ECA and:
 - The Geotech Report states that the existing soil conditions are suitable for proposed Detention System.

WATER QUALITY FACILITY

Water quality treatment is required if the amount of new plus replaced impervious roadway surface exceeds 5,000 SF and the project is in a non-

combined sewer basin.

- A Storm Drainage Report with calculations for sizing the water quality facility is provided.
- SPU Hydrostats Report
- The design and layout of the water quality facility is shown in both plan and profile.
- Design and layout of bypass facility in both plan and profile if required for water quality facility.
- Include manufacturer specifications for proprietary systems.
- A Geotech Report is provided if the water quality facility is located in an ECA and:
 - The Geotech Report states that the existing soil conditions are suitable for the proposed water quality facility.

INFILTRATION in the ROW

- Infiltration areas are shown, identified, dimensioned and:
 - Overflow details are provided;
 - Discharge point is indicated.
 - A Geotech Report is provided if the area tributary to the infiltration facility is greater than 5000 sq. ft. and:
 - The Geotech Report states that the existing soil conditions are suitable for proposed infiltration;
 - The Geotech Report identifies the native soil infiltration rate;
 - The Geotech Report identifies the ground water table.
- A Storm Drainage Report with calculations is provided describing the Code requirements that the proposed infiltration is being used to fulfill and:
 - The Storm Drainage Report states the infiltration rate of the facility components.

CURB AND ROADWAY ALIGNMENT

- Turning templates are provided for all non-standard roadway alignments, curb alignments, curb returns, curb bulbs, traffic circles, chicanes, etc.

UNIMPROVED ALLEYS

- Plan, profile, and cross sections are provided.
- The pavement type for the alley is indicated.
- A Storm Drainage Report with calculations is provided.
- The drainage system for the alley is shown in both plan and profile.

CLOSED CONTOUR ALLEYS

- Plan, profile, and cross sections are provided.
- The pavement type for the alley is indicated.
- A Storm Drainage Report with calculations is provided.
- The drainage system for the alley is shown in both plan and profile.
- If the public alley drainage will discharge onto private property a Hold Harmless Agreement is provided.
- Any proposed easements, private or public, are shown and identified.

PSD OR PSS MAIN EXTENSIONS

- A Storm Drainage Report with calculations for sizing the main is provided.
- The design and layout of the main are shown in both plan and profile.
- A Geotech Report is provided if the main extension is located in an ECA and:
 - The Geotech Report states that the existing soil conditions are suitable for the proposed main extension.
- The type and size of all manholes, catch basins, inlets, pipes, etc are shown.
- The rim and invert elevations for all manholes, catch basins, inlets, pipes, etc are shown.
- The slope and length of all pipes are shown.

METRO INFRASTRUCTURE

- All proposed overhead trolley lines and associated poles are shown, identified and labeled.

- All proposed bus stop and layover elements including curb paint, signs, kiosks, shelters, benches, and litter receptacles are shown.

SEATTLE CITY LIGHT (SCL) INFRASTRUCTURE

- The type and style of all proposed poles, hand holes, manholes, electrical vaults, conduits, spans, guys, anchors, power lines, and other related hardware and/or equipment are identified, shown and labeled.
- Existing SCL infrastructure is identified as being removed, replaced, relocated, connected to new equipment, and/or being maintained in place.
- If the project is proposing to underground existing overhead SCL infrastructure the proposed location of all new underground elements such as vaults, conduits, ducts, terminal poles, etc. are shown.

STREET LIGHTING/PEDESTRIAN LIGHTING

- The type and style of all proposed poles, hand holes, manholes, electrical vaults, conduits, spans, luminaire, bracket arms, and other related hardware and/or equipment are identified, shown, and labeled.
- Existing street and/or pedestrian lighting equipment is identified as being removed, replaced, relocated, and/or connected to new equipment.
- Light level calculations are provided.

SIGNAL SYSTEM (Proposed and/or modified)

- The type and style of all proposed poles, hand holes, conduits, pedestals, spans, vehicle heads, cabinets, pedestrian heads, push buttons, interconnect, detection loops, and other related hardware and/or equipment are identified, shown and labeled.
- Identify intelligent transportation equipment such as: variable message signs, closed circuit television, wireless detection, license plate readers, red light cameras, etc.
- All existing signal equipment is identified as being removed, replaced, relocated, connected to new equipment, and/or being maintained in place.
- Signal phase diagram is provided.

WATER MAINS

- All water mains are shown and identified.
- All new water mains and associated appurtenances are identified, shown and labeled.
- A Geotech Report is provided if the water main location is in an ECA and:
 - The Geotech Report states that the existing soil conditions are suitable for proposed water main.

SIP PROJECT MANAGER SCREENING COMMENTS:
