City of Seattle

Revised 11/03/2021

This table lists recommended amendments to the 2020 edition of the City of Seattle Standard Specifications and Standard Plans for Road, Bridge and Municipal Construction.

For City Contracts, the amendments presented below are only binding if they are inserted into a Project Manual (pre advertisement, via the addendum process or through a change order).

For SDOT issued Street Use Permits, the amendments presented below are only binding if they are referenced in the applicable Street Use Permits.

Amendments posted for the first time are highlighted in yellow in the "Revision Date" column.

SP = Standard Plan

Amendments to the Standard Plan are posted as redlined PDF's (showing recent edits), clean PDF's and CAD files on the City of Seattle's Standards Specifications and Plans webpage and are listed below.

http://www.seattle.gov/utilities/construction-resources/design-standards/standard-specs-and-plans

Revision Date	Section # or/ Plan #	Current Title	Text
3/11/2020	1-05.5	Construction Stakes	**Delete the first sentence in this Section and replace with the following:** All Work constituting the practice of engineering or land surveying requires the vertical datum and horizontal datum used to match the current National Geodetic Survey (NGS) Datum. See Standard Plan 001.
11/03/2021	1-07.3(1)	General	**Insert the following paragraph after paragraph 5:** Loads of recyclable construction and demolition waste of a single material may be transported directly to a recycling facility. Mixed construction and demolition waste containing materials required to be recycled must be transported to a certified construction and demolition waste processor listed on the City's certified facilities website: https://www.seattle.gov/utilities/construction-resources/collection-and-disposal/construction-and-demolition/certified-facilities per SMC 21.36.089. Unrecyclable construction and demolition waste must be transported to a disposal facilities per SMC 21.36.112.
11/03/2021	1-07.3(4)	Recyclable Materials	**Replace the 1st paragraph with the following:** The City requires specific types of construction and demolition waste to be recycled per SMC 21.36.089 and SPU Director's Rule SW-640 (https://www.seattle.gov/utilities/about/policies). Recyclable materials include but are not limited to asphalt and cement concrete, bricks, ferrous and non-ferrous metal, cardboard, untreated and unpainted wood, and new construction gypsum scrap.
11/03/2021	1-07.28	Notifications Relative to Contractor's Activities	**Replace paragraph (e) in Section 2 with the following:** When signs are Owner furnished, signs will be provided by SDOT. To order signs, or to coordinate SDOT's installation of signs, the Contractor must provide at least 30 Working Days and no more than 40 Working Days advance notification to the Engineer and must verify signs and locations per the Contract for signs to be installed by the Contractor, and/or provide notification of signs to be installed by SDOT. The Contractor must provide a list of locations and specify the number and type of signs needed and include contract information for the coordination of work to be performed by SDOT crews. The Engineer will notify the Contractor of when the signs are ready for pickup and the signs must be picked up with 10 Working Days of notification. The Contractor must pick up the signs at the SDOT sign shop at 4200 Airport Way South on Business Days between the hours of 8:00 a.m. to 3:00 p.m.

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11/03/2021	2-02.5	Payment	**Replace the 4th paragraph of item 11. Other Payment Information with the following:** When existing Type 164 or smaller inlet is to be removed with the removal of concrete pavement, the removal of the inlet is considered incidental to the cost of "Remove Pavement". Type 164 inlets have grates that are less than or equal to 10 inch wide by 24 inch long.
11/03/2021	2-09.3(5)	Subgrade for Structure	**Replace this Section with the following:** When a foundation will rest on rock, excavation must penetrate it at least 1 foot, or more if the Contract requires, to form a key for the footing. The Contractor must cut the bottom of the excavation to a firm surface, level, stepped, or serrated as the Engineer directs, and remove all loose material. For an arch abutment, the back face must be trimmed to true lines so that concrete can be poured against undisturbed material. If concrete will rest on any excavated surface other than solid rock, the Contractor must not disturb the bottom of the excavation. The Contractor must also remove all loose or soft material just before pouring the concrete. Upon completing any foundation excavation, the Contractor must notify the Engineer. No concrete or other permanent part of the Structure may be placed until the Engineer has given permission to proceed.
11/03/2021	2-16.3(3)E	Visual Verification of Existing Underground Facilities	**Replace the first sentence of this Section with the following:** When the proposed bore path is within 36 inches of an existing underground facility or service lateral, or where shown on the Drawings, the Contractor must visually verify the DHA safely clears an underground facility and that the underground facility is isolated from drilling fluid.
11/03/2021	6-02.3(6)E	Tolerances	**Insert New Section:** **Section 6-02.3(6)E TOLERANCES** Unless noted otherwise, concrete construction tolerances must be in accordance with this section. Tolerances in this section do not apply to cement concrete pavement. Deviation from plane: ±0.5 inch in 10 feet. Deviation from plumb or specified batter: ±0.5 inch in 10 feet, but not to exceed a total of ±1.5 inches. Vertical deviation of top surfaces (except roadway surfaces): ±0.75 inch. Thickness of bridge decks and other structural slabs not at grade: ±0.25 inch. Length, width and thickness of elements such as columns, beams, crossbeams, diaphragms, corbels, piers, abutments and walls, including dimensions to construction joints in initial placements: +0.5 inch, -0.25 inch. Length, width and thickness of spread footing foundations: +2 inches, -0.5 inch. Horizontal location of the as-placed edge of spread footing foundations: The greater of ±2% of the horizontal dimension of the foundation perpendicular to the edge and ±0.5 inch. However, the tolerance must not exceed ±2 inches. Location of opening, insert or embedded item at concrete surface: ±0.5 inch. Cross-sectional dimensions of opening: ±0.5 inch.

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			Bridge deck, bridge approach slab, and bridge traffic barrier expansion joint gaps with a specified temperature range, measured at a stable temperature: ±0.25 inch. Horizontal deviation of centerline of bearing pad, oak block or other bearing assembly:±0.125 inch. Horizontal deviation of centerline of supported element from centerline of bearing pad, oak block or other bearing assembly ±0.25 inch. Vertical deviation of top of bearing pad, oak block or other bearing assembly: ±0.125 inch.
11/03/2021	6-03.3(14)	Edge Finishing	**Replace this Section with the following:** All rolled, sheared, and thermal cut edges must be true to line and free of rough corners and projections. Corners along exposed sheared or cut edges must be broken by light grinding or another method acceptable to the Engineer to achieve an approximate 1⁄16- inch chamfer or rounding. Sheared edges on plates more than ⅝ inch thick must be planed, milled, ground, or thermal cut to a depth of at least ⅛ inch. Re-entrant corners or cuts must be filleted to a minimum radius of 1 inch. Exposed edges of main load-carrying tension members or tension components of flexural members must have a surface roughness no greater than 250-micro inches as defined by the American National Standards Institute, ANSI B46.1, Surface Texture. Exposed edges of other members must have surface roughness no greater than 1,000-micro inches. The Rockwell hardness of thermal-cut edges of structural low alloy or high-strength steel flanges, as specified in Sections 9-06.2 and 9-06.3, for main load-carrying tension members or tension components of flexural members must not exceed RHC 30 when tested in accordance with ASTM A1038. The fabricator must prevent excessive hardening of flange edges through preheating, post heating, or control of the burning process as recommended by the steel manufacturer. Hardness testing must consist of testing thermal-cut edges with a portable hardness tester. The Contractor must submit the hardness tester, and its operating test procedures to the Engineer for approval. The hardness tester must be convertible to Rockwell C scale values. At two locations, two tests must be performed on each thermal-cut edge, one each within ¼ inch of the top and bottom surfaces. The tests must be located ¼ the length of each thermal-cut edge from each end of the cut. If one or more readings are greater than RHC 30, the entire length of the edge must be ground or machined to a depth sufficient to provide acceptable readings upon further retests. If thermal-cutting operations conform to procedures established by the steel manufacturer, and hardness testing results are consistently within acceptable limits, the Engineer may authorize a reduction in the testing frequency. Hardness testing is the responsibility of the fabricator. The hardness testing device operator must be trained in its operation and competent in its use. Documentation of operator training must be made available to the Engineer upon request. Results of all hardness testing must be submitted to the Engineer.
11/03/2021	6-12.3(9)B	Inspection of Access Tubes	**Replace this Section with the following:** After placing the shaft concrete and before beginning the crosshole sonic log testing of a shaft, the Contractor must inspect the access tubes. Each access tube that the test probe cannot pass through must be replaced, at the Contractor's expense, with a 2-inch diameter hole cored through the concrete for the entire length of the shaft. Unless directed otherwise by the Engineer, cored holes must be located approximately 6 inches inside the reinforcement and must not damage the shaft reinforcement. The Contractor must submit to the Engineer, for review and approval per Section 1-05.3(3), a plan describing the conduct of the core hole drilling operation including measures to ensure core hole verticality and avoidance of reinforcement. Descriptions of inclusions and voids in cored holes must be logged and a copy of the log must be submitted to the Engineer. Findings from cored holes must be preserved, identified as to location, and made available for inspection by the Engineer.
11/03/2021	7-08.5	Payment	**Add the following to item 7. Other Payment Information:** The cost for removal and disposal of existing pipe within trench neat line limits of new pipe to be installed is incidental to the new pipe installation and no separate payment will be made.

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11/03/2021	7-17.3(2)H2	Casing Pipe, Spacers and End Sealing	**Delete the second sentence of the second paragraph:** ~~The annular space between the casing and carrier pipes must be filled with Material specified in the Contract.~~
11/03/2021	7-17.3(3)G4	Television Inspection Record Submittal Requirements	**Replace item 3. of the first paragraph with the following:** 3. A complete video recording of the television inspection in MP4 format.
11/03/2021	7-20.3(1)A	Adjustment of Maintenance Holes, Catch Basins and similar Structures General	**Revise the second paragraph to read:** To meet the new grade elevation, remove the pavement around the casting; remove the casting and install or remove leveling or adjustment brick or block; or excavate around the utility Structure, remove a portion of it as necessary and rebuild the Structure. Minimize pavement removal to the amount required to facilitate the adjustment. Adjustment of drainage Structure to finished grade elevation, by whatever method, must result in a finished Structure meeting the requirements for new construction as specified in Sections 7-05.3(1)L, 7-05.3(2)C, or 7-05.3(2)D corresponding to Structure type. Ring extensions are not allowed. The overall distance between the top of the casting to the bottom of the adjustment brick must not exceed 26 inches.
11/03/2021	7-20.3(4)	Adjustment of Valve Box Castings	**Replace this Section with the following:** The flange of the valve box casting must be set into the surrounding pavement as shown on Standard Plan 315a. Other requirements for adjustment of valve box castings and Water Main castings are specified in Sections 7-20.3(1)A and 7-20.3(5). .
11/03/2021	8-01.3(2)A	Construction Stormwater and Erosion Control Plan	**Add note 5a. to this Section:** 5a. Show locations of existing surface waters and natural or vegetated buffers to be maintained.
11/03/2021	8-02.3(9)B	Flexible Porous Surface Treatment	**Replace this Section with the following:** Flexible porous surface treatment must be designed, mixed, and installed per the manufacturer's recommendations. Flexible porous surface treatment must be Porous Pave XL, KBI Flexipave, or approved equal. Color must be grey-black or granite, or an approved equivalent or alternate color. Mix must have 25 to 30-percent void ratio and be comprised of 50-percent recycled rubber chips and 50-percent kiln-dried aggregate. For approval of equal material, the Contractor must submit product information, including limitations related to weather conditions or site-specific conditions, to the Engineer for approval. Submittal must also include a minimum of three examples of product installations within the last five years at a project location within 75 miles of the work site. All material submittals must include confirmation from the manufacturer that the Contractor or Subcontractor installing the flexible porous surface treatment has been trained and is currently certified to install the product. Install a base course of Mineral Aggregate Type 9 to a minimum 2-inch depth prior to placement of flexible porous surface treatment to provide a stable and uniform base. Flexible porous surface treatment must be placed to a minimum depth of 2 inches where applied adjacent to a sidewalk or curb, or a minimum depth of 4 inches where applied adjacent to multi-use trails. The finished surface of the flexible porous surface treatment must be uniform and flush with adjacent surfaces. Uniform and flush surface conditions must be maintained throughout the landscape establishment period. Flexible porous surface treatment must not be placed adjacent to trees within 10 Working Days of when the tree was installed and the pit and surrounding areas were backfilled and allowed to settle under natural conditions. See Section 8-02.3(6)B. Flexible porous surface treatment is subject to inspection and repair at the time of project acceptance, at quarterly inspections, and at the end of the landscape establishment period or warranty period described in Section 1-05.10.

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11/03/2021	8-31.3(14)	Owner Furnished Equipment and Materials	**Add the following to this Section:** The Contractor must provide written notice to the SDOT Signal Operations Engineer at least 5 months in advance of the proposed pickup date for any traffic signal controller cabinets that are needed for permanent or temporary signal work. For installation of the traffic signal controller cabinet, the Contractor is required to have power service at the cabinet location and to be hooked up to keep the electronics warm and dry until energizing the traffic signal.
11/03/2021	8-31.3(16)	Turn On/Cut Over Procedure	**Replace the third sentence of the first paragraph with the following:** A request for “turn on” of a new signalized intersection or “cut over” modifications to existing signalized intersection must be submitted in writing to the Engineer at least 15 Working Days before the proposed date of an existing signal cut over, and 15 Working Days before the proposed date of a new signal turn on. **Add the following to the third paragraph:** Any alternative times must be submitted by the Contractor at least 15 Working Days before the proposed date and time of the signal turn on or cut over. Alternative times must be approved by the Engineer. **Replace the first sentence of the sixth paragraph with the following**: Do not install signal heads at any intersection earlier than 10 Working Days before turn on or cut over. All new vehicular and pedestrian signals including backplate and illuminated signs must be temporarily covered completely with a 6 mil opaque polyethylene sheeting, or approved equal until the new signals are ready to be energized.
11/03/2021	8-32.3(6)	Chief Seattle Base and Collar	**Replace this Section with the following:** Where shown on the Drawings, the Contractor must install decorative Chief Seattle base and collar at the foundations of poles. Chief Seattle base and collar materials must be purchased from SCL. For information on Chief Seattle base and collar purchase costs, lead times, and delivery requests, contact a SCL Electrical Service representative at (206) 615-0600 for orders north of Denny Way, or (206) 386-4200 for orders South of Denny Way. Contractor must coordinate with SCL Electrical Service representative at the preconstruction meeting or a minimum of 120 Working Days advance notice for Chief Seattle base and collar pick up schedule. The Contractor must pick up the Chief Seattle base and collar and deliver to Project Site for installation. Install decorative Chief Seattle base and collars as specified in Seattle City Light Construction Standard 1716.38.
11/03/2021	9-05.2(1)	Concrete Pipe General	**Replace the last sentence of this Section with the following:** The identification of the minor axis of elliptical reinforcement must be in accordance with Section 7-17.2(1).
11/03/2021	9-07.5	Dowell Bars (For Cement Concrete Pavement)	**Replace this Section with the following:** Corrosion resistant dowel bars must be the dimensions specified in Standard Plan 405c and meet the requirements of one of the following: 1. Stainless Steel Clad dowel bars must have a minimum 0.06 inches clad to a plain steel inner bar meeting the chemical and physical properties of AASHTO M31, Grade 60, or AASHTO M255, Grade 60. Stainless Steel Clad must meet the chemical properties of ASTM A249 or A269, Grade TP 316L. 2. Stainless Steel Tube dowel bars must have a minimum 0.06-inch-thick tube press fitted onto a plain steel inner bar meeting the chemical and physical properties of AASHTO M31, Grade 60, or AASHTO M255, Grade 60. A lubricant/adhesive must be used between the tube and the plain steel bar to fill any voids. Stainless Steel Tube material must meet the chemical properties of ASTM A249 or A269, Grade TP 316L. 3. Stainless Steel Solid dowel bars must be ASTM A276, Type 316L. 4. Corrosion-resistant, low-carbon, chromium plain steel bars for concrete reinforcement meeting all the requirements of ASTM A 1035 Alloy Type CS

<table>
<tr><th>Revision Date</th><th>Section # or/ Plan #</th><th>Current Title</th><th>Text</th></tr>
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Grade 100 or Alloy Type CS Grade120.
5. Zinc Clad dowel bars must be solid bars or tubular bars with the dimensions specified in Standard Plan 405c and meet the chemical and physical properties of AASHTO M 31, Grade 60 or AASHTO M 255, Grade 60. The bars must have a minimum 0.035 inches A710 Zinc alloy clad in addition to the to the plain steel solid bar or tube dimensions. A710 Zinc must be composed of: zinc: 99.5 percent, by weight, minimum; copper: 0.1 – 0.25 percent, by weight; and iron: 0.0020 percent, by weight, maximum. Each end of tubular bars must be plugged using a snug-fitting insert to prohibit any intrusion of concrete or other materials.
6. Multicoated fusion bonded epoxy bars must consist of an ASTM A615 bar with alternating layers of ASTM A934 coating and an abrasion resistant overcoat (ARO). The ASTM A934 coating must form the base and there must be two layers of each coating material. The minimum thickness of the combined layers of the ASTM A934 coating and ARO coating must be 20 mils. The ARO must meet the following requirements:
<table>
<tr><th>Test</th><th>Method</th><th>Specification</th></tr>
<tr><td>Gouge Resistance</td><td>NACE TM0215, 30 kg wt., LS-1 bit @ 25°C</td><td>< 0.22 mm</td></tr>
<tr><td>Gouge Resistance</td><td>NACE TM0215, 50 kg wt., LS-1 bit @ 25°C</td><td>< 0.44 mm</td></tr>
</table>
7. ASTM A513 steel tubes made from Grade 60 Carbon Steel Tube with the dimensions specified in Standard Plan 405c. Both the inside and outside of the tube must be zinc coated with G90 galvanizing in accordance with ASTM A653. The bars may be cut to length after being galvanized. Following zinc coating, the tubes must be coated with ASTM A1078 Type 2 epoxy coating. The thickness of the epoxy coating must be 10 mils plus or minus 2 mils. After all coatings have been applied, to prevent intrusion of concrete or other materials, the ends of the tube must be capped with a plug style insert cap with a diameter less than the outer dimension of the tube. The Contractor must furnish a written certification that properly identifies the coating materials, the number of each batch of coating material used, quantity represented, date of manufacture, name and address of manufacturer, and a statement that the supplied coating materials meet the requirements of ASTM A653 G90 and ASTM A1078 Type 2. An ASTM A1078 patching material, compatible with the coatings, inert in concrete, and recommended by the manufacturer must be supplied with each shipment for field repairs by the Contractor.
The surface of the finished cut-to-length corrosion-resistant, low-carbon, chromium plain steel bars for concrete reinforcement meeting all the requirements of ASTM A1035 dowels must be provided with a hot- rolled, as-rolled finish, including mill scale. The surface of all other finished cut-to-length dowels must be provided with a smooth “ground” or “cold drawn” finish.
Stainless Steel Clad and Stainless Steel Tube Dowel bar ends must be sealed with a patching material (primer and finish coat) used for patching epoxy-coated reinforcing steel as required in Section 9-07.3, item 7.
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<tr><td>11/03/2021</td><td>9-32.3</td><td>Pedestrian or Bicycle Pushbutton Assembly</td><td>Replace Item 5 of this Section with the following:

The central control unit must be shelf mounted and include all necessary, compatible components and cables to the traffic signal controller system. Contact the Traffic Signal Shop at (206) 386-1517 for compatibility approval. The central control unit must have a minimum of 12 feet of power connecting cable.</td></tr>
<tr><td>11/03/2021</td><td>SP 030</td><td>Desirable Locations for Utilities</td><td>Revised Standard Plan title, tree clearance notes, and removed incorrect reference.</td></tr>
<tr><td>11/03/2021</td><td>SP 240</td><td>Type 240 Catch Basin</td><td>Revised Standard Plan inlet and outlet call out for knock outs.</td></tr>
<tr><td>11/03/2021</td><td>SP 260B</td><td>Catch Basin and Inlet Installation</td><td>Revised Standard Plan to update Welded Wire Fabric (WWF) call outs.</td></tr>
</table>

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11/03/2021	SP 270	Flow Control Structure With Detention Pipe	**Revised Standard Plan to remove restrictive sizing table for maintenance hole diameters and adjusted notes accordingly.**
11/03/2021	SP 301	Water Service Relocation for up to 2” Service Pipe Through Bioretention	**New Standard Plan showing water service location, construction requirements and clearance requirements in relation to bioretention cells.**
11/03/2021	SP 302	Watermain Setback Requirement for C.I. Lead Joint and D.I. Slip Joint Pipe	**New Standard Plan showing watermain clearances in relation to bioretention cells and notification requirements.**
11/03/2021	SP 310A	Type 310 Hydrant Setting Detail	**Revised Standard Plan to clarify jointing requirements for Hydrant Connection Pipe to the watermain.**
11/03/2021	SP 310B	Type 310 Hydrant Setting Detail	**Revised Standard Plan to clarify jointing requirements for Hydrant Connection Pipe to the watermain.**
11/03/2021	SP 312	Fire Hydrant Marker Layout	**Revised Standard Plan to correct location of hydrant nut.**
11/03/2021	SP 313	Wall Requirements for Hydrants	**Revised Standard Plan to correct location of hydrant nut.**
11/03/2021	SP 314A	Fire Hydrant Locations and Clearances	**Revised Standard Plan graphics and notes to clarify clearance requirements for fire hydrant locations near curb ramp.**
11/03/2021	SP 314B	Clearances for Typical Water Service Vaults	**Revised Standard Plan graphics and notes to clarify clearance requirements from water service vaults.**
11/03/2021	SP 340A	2” Blow Off Type A Non Traffic Installation	**Revised Standard Plan to include an additional Valve Box located above the isolation valve, where the watermain connects to the copper pipe leading to the blow off assembly.**
11/03/2021	SP 340B	2” Blow Off Detail Type B Traffic Installation	**Revised Standard Plan to include an additional Valve Box located above the isolation valve, where the watermain connects to the copper pipe leading to the blow off assembly.**
11/03/2021	SP 359	Rebuild Existing Brick Water Valve Chamber	**New Standard Plan**

Revision Date	Section # or/ Plan #	Current Title	Text
11/03/2021	SP 401	Residential Pavement Sections	**Revised Standard Plan subtitles to better match Specification bid items.**
11/03/2021	SP 402	Commercial and Arterial Pavement Sections	**Revised Standard Plan titles to better match Specification bid items.**
11/03/2021	SP 405A	Roadway Concrete Pavement Repair	**Revised Standard Plan to match new dowel bar requirements**
11/03/2021	SP 405C	Roadway Concrete Pavement Joints	**Revised Standard Plan to match new dowel bar requirements**
11/03/2021	SP 422F	Curb Ramp Details	**Revised to allow for clear space to fall within extended face of curb**
11/03/2021	SP 430A	Type 430a Driveway	**Revised Standard Plan 430 and made two Standard Plans 430a and 430b to visually clarify direction of broom finish and jointing requirements.**
11/03/2021	SP 430B	Type 430b Driveway	**Revised Standard Plan 430 and made two Standard Plans 430a and 430b to visually clarify direction of broom finish and jointing requirements.**
11/03/2021	SP 431	Cement Concrete Driveway placed with Cement Concrete Sidewalk	**Revised Standard Plan to visually clarify direction of broom finish and jointing requirements.**
11/03/2021	SP541A	Traffic Signal Pole Foundation	**Revised Standard Plan to change call-outs and detail dimensions.**
11/03/2021	SP 543A	Street Light Pole Foundations	**Revised to clarify concrete collar requirements and add shrubbery and foliage planting clearance note.**
11/03/2021	SP 543B	Pedestrian Street Light Pole Foundations	**Revised to clarify concrete collar requirements and add shrubbery and foliage planting clearance note.**
11/03/2021	SP 550A	Handholes	**Revised to add shrubbery and foliage planting clearance note.**
11/03/2021	SP 750	Red Bus Lane Markings	**Revised details and notes for Red Bus Lane Markings**

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