

**NOTICE OF REVISIONS TO
CITY OF AUBURN ENGINEERING DESIGN AND
CONSTRUCTION STANDARDS
EFFECTIVE DATE 01/06/2021**

The City of Auburn Engineering Design Standards and Engineering Construction Standards (Part 1 – Special Provisions, Part 2 – Standard Details, and the City of Auburn Surface Water Management Manual (SWMM)) have been revised as indicated below and re-issued. The effective versions are not distributed as hardcopies and are available electronically on the City’s website at:

https://www.auburnwa.gov/city_hall/public_works/publications_forms

In accordance with ACC 12.04.040 the standards have been filed with the City of Auburn City Clerk for use and examination.

Summary of Revisions:

Design Standards

- Minor revisions and corrections made throughout entire document.
- General renumbering and restructuring sections throughout entire document. Removed all previous number sequences that were three subsections into a section (i.e., 1.01.02.03).
- 1.01 (Definitions); Added a definition for ‘Roadway Intersection’.
- 1.04 (Deviation from Standards); Added deviation process for City Capital projects and added statement regarding additional City review time for deviations in certain circumstances.
- 1.04.01 (General Deviations); Added further instruction and clarification on design deviations.
- 1.07 (Downtown Sidewalk Design Guidelines); Complete replacement of this entire section, including subsections. New replaced section and subsections includes applicable elements of the Auburn Sidewalk Design Guidelines (standalone document previously posted on the City website) and all modifications and clarifications from a Council discussion held on November 23, 2020.
- 2.01 (Types of Plans); Complete revision of the subsections to reference city code or remove redundancies that are covered elsewhere.
- 2.02.03 (Plan Approval); Removed references to providing hard copy plans to coincide with the City moving to electronic and removed and replaced the reference to the Record Construction Document Packet to Appendix F for AutoCad file requirements.

- 2.02.04 (Project Closeout); Revised entire section related to the Construction Record Drawings and As-builts.
- 3.02 (Plan Format); Replaced entire section, including subsections and combined Grading Plans, Building Site Plans, and Facility Extension Plans into one plan format – Civil Site Improvement Plans.
- 3.03.01 (Standard Plan Format); Removed requirement for the north arrow to be in a specific location on the plans, removed requirement for the title block to be on the right hand edge of each plan sheet, and deleted reference to applying the Record Drawing Certification approval block.
- 3.03.02 (Drafting Standards); Added reference to Appendix F at the end of the chapter, which addresses AutoCad Layers Standards.
- 3.04.01 (Cover Sheet); Added reference to the Auburn Engineering Approval block.
- 3.04.03 (Grading and Private Storm Drainage Plan Sheet); Removed reference to indicating private drainage facilities on the plans since this is in the SWMM.
- 3.04.09 (Public Street Plan and Profile Sheet); Under the illumination heading added requirement to show proposed street trees and underground utilities on the street lighting plans and modified the lighting schedule list ‘A5’ to read Minimum Light Level.
- Appendix A (Approval Blocks); Updated entire Appendix approval blocks.
- Appendix B – (Standard Notes); Added reference that Standard Notes apply to Development projects. Revised first general note to reference City Engineering Design and Construction Standards, with exception for approved deviations. Under Cross Connection Control Notes modified time between receiving a passing test report and installation of the RPBA’s and DCVA’s to be 72 hours.
- Appendix E (Minor Grading Permit Criteria); Under Project Thresholds, added exception for remodel/tenant improvement on a non-residential project, added exclusion for accessory dwelling units, added exception for remodel/tenant improvements on non-residential that are inside a building. Under Submittal Requirements added statement that a stormwater site plans is not required for remodel/tenant improvement projects.
- Appendix F (AutoCad Layer Standards) – Added this new Appendix. Previously this information was in the Record Construction Document Packet on the City’s website.
- 4.01 (General Requirements) – Removed reference to requiring reports to be in hardcopy format.

- 4.02 (Report Types and Requirements) – Renamed section to Report Types and Requirements and removed references to report sections that were redundant.
- 7.01 (Water Mains) – First paragraph was moved to this section, which was previously in section 7.03.
- 7.01.02 (Water Main Location); Deleted bulletpoint F, mentioning placement of water mains, which was redundant.
- 7.01.03 (Water Main Fittings); Added clarification that blowoffs are not needed on short segments that dip under other utilities and added clarification on maximum allowable deflections.
- 7.02.01 (Domestic Services); Added clarification to minimum spacing requirements, added bulletpoint for extensions across properties where the potential exists to serve adjacent properties, removed restriction of no more than 2 services in a private access tract.
- 7.03.01 (Water Valve Sizing); Added statement that butterfly valves shall be placed on mains 14 inches in diameter or larger.
- 7.04.01 (Domestic Services); Added statement regarding backflow devices on existing non-single family connections as directed by City Cross Connection Specialist.
- 7.04.03 (Fire Line Connections); Revised requirement for backflow assemblies to be placed in the building riser room.
- 7.06.02 (Fire Sprinkler Systems); Added clarification that fire sprinkler supply lines shall be a minimum of 8 inches in diameter unless designed by a Fire Protection Engineer, Added statement that connections shall be installed with a cut-in tee with valves unless otherwise approved by City Engineer.
- 7.06.04 (Fire Authority and Hydrant Access); Added exception notation to bulletpoint C regarding access that exceeds 150 feet in length.
- 8.00 (Preface); Added statement that property owner is responsible for maintenance and repair of private systems.
- 8.01.02 (Sanitary Sewer Main Location); Added clarification that the main shall also be extended through shared driveways or access tracts serving the property when the potential exists to serve upstream properties, Updated requirements for separation between potable (water) and non-potable (sewer and storm) pipelines including updating figure 8-01 (Horizontal Pipe Separation).
- 8.02.01 (Sanitary Sewer Manhole Types and Size); Revised bulletpoint C to mention additional design provisions may be required for manholes over 20 feet deep.
- 8.02.02 (Sanitary Sewer Manhole Locations); Added approval by City Engineer exception to bulletpoint I for manholes located in walking paths

and noted in cases where they are approved that they shall have non-skid, smooth lids.

- 8.02.03 (Sanitary Sewer Manhole Parameters); Added rubberized adjustment rings to bulletpoint G and their requirements to be installed in certain circumstances.
- 8.05 (Pressurized Sewer Systems); Revised entire section, clarifying when private low pressure sewer systems are allowed.
- 9.03.01 (Design Criteria); Added new bulletpoint A stating facilities to be constructed per Engineering Design and Construction Standards.
- 10 (Streets); Revised the paragraph discussing the Downtown Sidewalk Design Guidelines.
- 10.01 (Street Classification and Street Layout); Renamed section to Street Classification and Street Layout and replaced this entire section to form a combined section of street classifications and street layout.
- 10.01.01 (Arterials); Revised this entire section, including subsections. Combined content that was previously under subsection 10.02.10 (Street Layout) to this section. Deleted redundant information pertaining to number of lanes, speed limit, and ADT that was also listed in Table 10-1.
- 10.01.02 (Collectors); Revised this entire section, including subsections. Combined content that was previously under subsection 10.02.10 (Street Layout) to this section. Deleted redundant information pertaining to number of lanes, speed limit, and ADT that was also listed in Table 10-1.
- 10.01.03 (Local Streets); Revised this entire section, including subsections. Combined content that was previously under subsection 10.02.10 (Street Layout) to this section. Deleted redundant information pertaining to number of lanes, speed limit, and ADT that was also listed in Table 10-1.
- 10.01.05 (Private Access Roads on Access Tracts or Easements (Shared Driveways); Added 2 asterisk notes indicating exceptions for single family residences on existing platted lots, modified note 5 to mention access roads with existing or future possible public utilities, and added a new note 6 to allow steeper grades on access tracts without existing or potential future possible public facilities.
- 10.01.07 (Cul-de-sacs); Added maximum vertical grade/cross slopes allowed, added statement that street lights and fire hydrants need to be located in easement behind the sidewalk.
- 10.02 (Street Geometry); Replaced entire section, including subsections to contain information previously shown in other sections, clarified the Posted and Design Speed section pertains to design of new facilities and added a reference to Table 10-1 for curb radii under the Right of Way section. Added allowance for the maximum vertical grades of local streets

to be increased to 10% without the need for a deviation where all other geometric design criteria are met without deviation(s).

- 10.04 (Roadway Intersections); Replaced entire section.
- 10.05 (Driveways); Added opening paragraph mentioning design criteria for driveways.
- 10.05.01 (Driveway Classifications); Clarified that Residential Driveways shall be used when serving single family residences that are not connected to the right-of-way via an access tract.
- 10.05.02 (Driveway Locations); Replaced entire first paragraph to include deviation requests for multiple driveways on a parcel or development project.
- 10.05.03 (Driveway Layout); Deleted sentence pertaining to reducing the driveway throat to 25 feet.
- 10.05.03 (Accessibility); Added a sentence for minimum overhead clearance.
- 10.06.04 (Curb Ramps); Replaced entire section.
- 10.11.07 (Service Cabinet, Foundation, Conduit); Replaced statement pertaining to photocell with a wireless control node.
- 10.11.08 (Junction Boxes); Added statement that junction boxes in sidewalks shall be non-skid.
- 10.16.02 (Mountable Curbs); Deleted reference to WSDOT standard detail for mountable curbs constructed on new roadway surfaces and replaced with a new City Standard Detail.
- 10.16.05 (Crosswalks); Added new section.
- 10.16.13 (Traffic Signals); Added statement that video detection is to be used for vehicle detection at traffic signals. Added paragraph mentioning modifications or expansions of any portion of the electrical systems of signalized intersections or crossings.
- 10.17.01 (When Traffic Impact Analyses are Required); Clarified opening paragraph discussing when an analysis is required and added a bulletpoint about a development potentially affecting an intersection or corridor.
- Table 10-1 (Summary Matrix Street Geometry Design Requirements); Replaced entire table to include only roadway geometric design criteria. Other elements previously listed in the table were moved to the roadway cross sections in Chapter 10.

Construction Standards – Part 1, Special Provisions

- Minor revisions and corrections made throughout.
- 1-05.17 (Oral Agreements); Removed electronic mail (e-mail) from the list of items that affect or modify terms of obligations.
- 1-05.18 (Construction Record Drawings); Removed reference to submitting hard copy Construction Record Drawings.
- 1-07.23(1) (Construction Under Traffic); Deleted reference to obtaining approval of the inspector of barricading and lighting before leaving job site each day and reference to inspector approval not relieving contractor of legal responsibilities.
- 1-07.23(2) (Construction and Maintenance of Detours); Clarified the Contractor is to allow reasonable access through construction zones as opposed to providing reasonable access.
- 2-06.3(1) (Subgrade for Surfacing); Modified last sentence of paragraph to reference compaction as directed by Engineer.
- 2-07.4(1) (Water from City Hydrants); Updated the fee schedule
- Division 5 (Surface Treatments and Pavement bases); Modified all references of PG from 64-22 to 58H-22.
- 7-05.2 (Materials); Updated product number references to the list of approved manhole ring and covers.
- 7-05.3(1) (Adjusting Manholes & Catch Basins to Grade); Added reference to rubberized adjustment risers when called for in the plans.
- 8-20.3(13)C (Luminaires); Modified reference to how luminaires are to be leveled.
- 8-20.3.(13)G (Photoelectric Controls); Deleted this section.
- 8-20.3(14)H (Pedestrian Push Buttons and Signs); Added statement that braille is required on placards.
- 8-20.3(14)I (Video Detection System); Added Econolite as approved video detection system.
- 8-20.3(14)K.3 (Testing, Mounting and Wiring); Modified Ethernet cables to be routed into the ethernet switch.
- 8-31.1 (Description); Added custom labels as specified work.
- 8.31.2(5) (Fiber Optic Cable Labeling); Added statement that fiber optic cables shall have custom City of Auburn labels.
- 9-29.2 (Junction Boxes, Cable Vaults, and Pull Boxes); Replaced City special provision with WSDOT GSP in this section.
- 9-29.6(1)A (Lighting & Signal Standards & Davit Arms); Deleted statement that handhole bolts shall be tamperproof heads. Under

Luminaire Attachment added statement for how luminaires are to be adjusted based on roadway slopes.

- 9-26.6(5) Foundation Hardware; Deleted statement that each anchor bolt shall have an 'L' bend.
- 9.29.10 (Luminaires); Deleted section pertaining to submittals for Prior Approval.
- 9.29.13(10) (Traffic Signal Controller Cabinet Unit); Modified section under Fiber Optic Patch Panels to include corning buffer tube fanouts kits and Unicam SC connectors.
- 9-29.22 (Rectangular Rapid Flashing Beacon (RRFB)); Modified entire section.
- 9.29.23 (Video Detection Cameras); Added Econolite Vision as an acceptable manufacturer.
- 9.29.24 (Service Cabinets); Changed the amperage for Traffic Signals in the table.
- 9-29.27 (CCTV System); Deleted reference to Cohu MS cable to be ordered to length.
- 9-29.28 (Variable Message Sign System); Added Alpha Battery Backup and compact batteries to list of components.
- 9-30.3(3) (Butterfly Valves); Deleted reference to butterfly valves being used on mains 14 inch and larger and moved statement to the Design Standards. Added acceptable list of manufacturers.
- 9-38.2 (Schedule of Submittals); Modified minimum review time for submittals to be 15 working days.

Construction Standards – Part 2, Standard Details

- The following details have been revised or added:
 1. T-01.4: Typical Pipe Trench Backfill
 2. T-02.3: Existing Roadway Restoration of Utility Trenches
 3. T-06.3: Street Tree in Landscape Strip
 4. T-11.2: Poured in Place Monument Type "B" Modified
 5. T-11A.2: Poured in Place Monument Type "B" Modified (Asphalt)
 6. T-18.3: Luminaire and Conduit Layout Detail
 7. T-21.3: Power Service Cabinet Detail
 8. T-22.3: Traffic Signal Controller & Foundation Detail
 9. T-23.3: Telecommunication and Luminaire Electrical Trench
 10. T-28.3: Downtown Pedestrian Pole Mount Lighting Standard
 11. T-29.4: Local Residential Ornamental Street Lighting Standard
 12. T-30.2: Typical Plan For Tree Grate
 13. T-32.3: Precast Concrete Dual Faced Sloped Mountable Curb Retrofit

14. T-33.2: Street Tree Underground Stabilization
15. T-37.4: Street Lighting Lamp Schedule
16. T-38.1: Downtown Decorative Type III Combo Lighting & Mast Arm Signal
17. T-39.2: Downtown Decorative Light Pole
18. T-40.2: “No Parking” Sign
19. T-44.2: Downtown Brick Paver Band
20. T-46.2: Poured in Place Monument Type A Modified
21. T-47.1: Cast-In-Place Dual Mountable Cement Concrete Traffic Curb (NEW)
22. T-48.1: Sensitive Area Sign Commercial Aquatic (NEW)
23. S-01.2: Side Sewer Stub
24. S-03.2: Public Side Sewer Cleanout (8” or Larger)
25. S-04.4: 24” Dia. Manhole Frame and Cover
26. S-05.2: Retrofit Existing Manhole With Inside Drop
27. W-02.3: Typical Air and Vacuum Relief Valve Detail
28. W-03.3: 2” Permanent Blow Off Assembly
29. W-04.3: Temporary Blowoff Detail
30. W-06.3: ¾” to 2” Irrigation From Domestic Service Line (Single Family)
31. W-13.4: 1” Water Service Installation for ¾” and 1” Meters
32. W-14.2: 1 ½” & 2” Water Service Installation
33. W-15.5: Water Meter Location & Material Schedule
34. W-16.3: 3” or Larger Water Meter Installation
35. W-16a.4: 3” or Larger Water Meter Installation
36. W-20.3: Non-Single Family Service Lines
37. W23.3: Reduced Pressure Backflow Assy. (Inside Installation)

City of Auburn Surface Water Management Manual

Volume I

- 2.2 (Exemptions); Clarified that Minimum Requirements 1-5 apply to sidewalk **replacements**, while Minimum Requirements 1-10 apply to sidewalk **expansions**
- 2.5.6 (Minimum Requirement #6: Runoff Treatment); Modified section to say infiltration in Zones 1 and 2 requires approval of the City Engineer.
- 2.6.10 (Minimum Requirement #10: Off-Site Analysis and Mitigation); Added general statement that mentions when a quantitative analysis may be required.
- Appendix I-K; Changed paving requirement for access roads from 7% to 8%, Added turnaround requirement for access roads connecting to arterial or collector streets, added commercial driveway requirement for both public and private access, modified minimum distance needed before exceeding slopes behind back of sidewalk or right-of-way line. Changed

access road grade requirements to allow up to 12% for public and 15% for private.

Volume II

- Chapter 2 (Regulatory Requirements); Added development@auburnwa.gov as a contact.
- Appendix II-C; Removed the City of Auburn Construction Stormwater Pollution Prevention Plan Short Form and replaced it with a link to the form on the public website.

Volume III

- 3.2.1 (Detention Ponds); Under Side Slopes, decreased the percent of pond perimeter that shall be vegetated from 50% to 25% and added bulletpoint discussing pond wall drains; Under Fencing added clarification that that fencing will be installed on the outside edge of a 3' wide bench and modified the minimum width of access gates to 15 feet with equal width swinging sections; Under Planting and Landscaping added statement that all debris and rocks larger than 1 inch are to be removed from top 3 inches, clarified the pond bottom to be seeded with grass seed mixture, and added a bulletpoint that trees shall not be placed closer than 10 feet and shrubs 5 feet from pond fences.
- 3.2.3 (Detention Vaults); Changed the maximum allowable depth to be 20 feet, added bulletpoint requirements for access hatches and access ladders/rungs, added requirement for galvanized hooks that can support 250 pounds each for maintenance equipment, and added bulletpoint that access hatches shall have a 3 foot wide paved collar in unpaved locations.
- 3.2.5 (Other Detention Options); Added section on Use of Alternative Storm Detention Facilities.

Volume V

- Chapter 4 (General Requirements for Stormwater Facilities); Added discussion on when stormwater from required improvements in the public right-of-way is allowed to discharge onto private property.
- Chapter 12 (Emerging Technologies); Revised the only allowable technologies approved for public treatment to Modular Wetland without vegetation and BioPod without vegetation.