

2021 LCUASS Revisions Summary:

A detailed modifications summary table of the changes is included. The section below also briefly summarizes some of the important items contained within these revisions:

Chapter 1 – General Provisions

Technical corrections and text revisions. Allow technical corrections to be made administratively as long as they are not policy related or adding cost. Text revised in Section 1.9.2 to clarify off- site, adjacent, and on-site improvements for the Street Construction Policy. Section 1.9.3.B was re-written to clarify street oversizing and third-party reimbursements for the City of Loveland. Section 1.9.4 was updated for changes that was approved by City of Fort Collins regarding variances to LOS standards that the City of Loveland would also like to adopt.

Chapter 2 – Submittal and Review Procedures

Technical corrections and text revisions. Text revised in Section 2.2.2 to change the title from Public Improvement Construction Plans to Civil Construction Plans.

Chapter 3 – Information Requirements for Construction Plans

Technical corrections and text revisions. Text revised in Section 3.2.6 to allow electronic PE stamps per Colorado Board of Registration Requirements.

Chapter 4 – Transportation Impact Studies

Removed link volume levels of service (LOS) requirements to be consistent with CDOT, other jurisdictions, and standard practices for traffic impact studies (Loveland only). Section 4.6 revised to allow mitigation that is reasonably related and proportional to impact that is not feasible (or not desired by the Local entity) to address the specific LOS issue. Added Section 4.6.8 Alternative Mitigation Strategies for intersections that do not meet overall level of service standards, and reasonably related and proportional mitigation to address the level of service is not possible or not desired by the Local Entity, an Alternative Mitigation Strategy may be requested and considered. Section 4.6 and 4.6.8 were already adopted by the City of Fort Collins that the City of Loveland would also like to adopt.

Chapter 5 – Soil Investigations and Report

Technical corrections and text revisions. Fill requirements text modified in Section 5.2.1.C to be consistent with industry standard practices.

Chapter 6 – Permits

Technical corrections and text revisions. Text in Section 6.17.A.11 modified to change notification from 24 hours to 48 hours for erosion control inspection. Additionally, text change to specify that the Public Improvements Opinion of Cost are to be signed and stamped by a professional engineer (PE).

Chapter 7 – *Street Design and Technical Criteria*

Sight distance requirements changed to be consistent with the CDOT State Highway Access Code criteria. Striped buffered bike lane and protected bike lane options on arterial roadways added to the cross section figures. 5’ (min.) sidewalk and 8’ (min.) parkway width added to the Fort Collins cross section figures.

Chapter 8 – *Intersections*

Technical corrections and text revisions. Text in Section 8.2.17 revised to indicate that roundabouts shall be designed in accordance with LCUASS Appendix I.

Chapter 9 – *Access Requirements and Design Criteria*

Technical corrections and text revisions. Section 9.4.10, change in use updated to be consistent with CDOT criteria (20% or 100 total daily trips).

Chapter 10 – *Pavement Design and Report*

Technical corrections and text revisions to be consistent with current practices.

Chapter 11 – *Structures*

Technical corrections and text revisions to be consistent with current practices.

Chapter 12 – *Utility Installations*

Technical corrections and text revisions to be consistent with current practices. Section 12.2.3 access covers shall be ¼ inch below the finished roadway surface.

Chapter 13 – *Street Naming and Addressing*

Technical corrections and text revisions to be consistent with current practices. Website addresses updated. Road Naming Criteria title changed in Table 13-1.

Chapter 14 – *Traffic Control Devices*

Technical corrections and text revisions to be consistent with current practices.

Chapter 15 – *Street Lighting*

Technical corrections and text revisions to be consistent with current practices. Section 15.1.2 Replaced “\$300 design electrical deposit” text with “required electrical design deposit”.

Chapter 16 – *Pedestrian Facilities*

Technical corrections and text revisions to be consistent with current practices. Loveland is removing Industrial areas exception for sidewalk facilities unless otherwise approved by the Local Entity Engineer Section 16.2.1.D.

Chapter 17 – *Bicycle Facilities*

Technical corrections and text revisions to be consistent with current practices. Bicycle detection text added to Section 17.2.4.

Chapter 18 – *Neighborhood Traffic Safety*

Technical corrections and text revisions to be consistent with current practices.

Chapter 19 – *Parking*

Technical corrections and text revisions. Figure 19-6 revised where Local Entity Engineer can vary parking setback distance requirements on a case-by-case basis.

Chapter 20 – *Public Improvements Cost Estimate*

Section 20.2 Remove Option of Cost and reference form

Chapter 21 – *Reserved*

Chapter 22 – *Materials & Construction Specifications*

Technical corrections and text revisions to be consistent with current practices.

Chapter 23 – *Inspection and Testing Procedures*

Technical corrections and text revisions.

Chapter 24 – *Acceptance/Warranty Procedures and Record Drawings*

Technical corrections and text revisions. Section 24.3.4 Failure to Complete Repair section modified to require a 15% fee for the value of the work or a \$500 administrative fee whichever is greater.

Chapter 25 – *Reconstruction and Repair*

Technical corrections and text revisions to be consistent with current practices. Section 25.2.4 Flow fill will be required on soft surface potholing per the discretion of the Local Entity Engineer

Appendix A – *Standard Drawings*

The updates to Appendix A include technical revisions and corrections to meet the current industry standards and practices and to be consistent with the changes being made to the various chapters listed within this document.

Appendix C – *Fort Collins Streetscape Design Standards*

The updates to Appendix C include technical revisions and corrections to meet the current industry standards and practices

Revisions to the Larimer County Urban Area Street Standards (2021)

Standard	Page	Item	Description/How Changed
Section 1.6	Page 1-4	Technical Corrections	Text to allow technical corrections to be made administratively as long as they are not policy related or adding cost
Section 1.7	Page 1-5	Definitions	Bicycle Lane (Protected) and (Buffered) definitions added
Section 1.7	Page 1-13	Civil Construction Plans	Public Improvement Construction Plans text changed to Civil Construction Plans
Section 1.7	Page 1-16	Vehicles Per Hour	VPH - Vehicles Per Hour definition added
Section 1.9.2	Page 1-18	Street Construction Policy	On-site and Off-site requirements text revised to clarify off-site, adjacent, and on-site improvements
Section 1.9.3.B	Page 1-21	Reimbursement Policy (Loveland)	Section re-written to clarify street oversizing and third-party reimbursements. Developer to contact the City Engineer's office in writing to begin the discussion for entering into a Street Oversizing Agreement. the revised section also provides the steps to be taken in the process; sets the expectation for reimbursement timing; and addresses the construction cost adjustments. Other notable changes for this process is the requirement for the Developer to contact the Third Party/Parties to reach a private reimbursement agreement without the City's involvement. If the parties are unable to reach a private agreement the Developer may then contact the City for approval to begin the City's Third Party Reimbursement Agreement process. The process was also listed in order of required occurrence. The Construction Cost adjustments for inflation was changed to the Colorado Department of Transportation Cost Index.
Section 1.9.4	Page 1-25	Variances	Updated for changes that was approved by City of Fort Collins regarding variiances to LOS standards that City of Loveland would also like to adopt.
Section 2.1.2	Page 2-1	Text Revision	Move "Construction Traffic Control Plans" to Section 2.2.6 for more appropriate chapter location
Section 2.2.2	Page 2-2	Text Revision	Change title from Public Improvement Construction Plans to Civil Construction Plans.
Section 2.2.3	Page 2-2	Landscape Plans	Revise Section B to indicate "Landscape Plans to comply with Local Entity's current requirements"
Section 2.2.11	Page 2-3	Mylar Requirements	Mylar Requirements. "Refer to each Local Entity for the specific mylar requirements"
Section 2.2.12	Page 2-4	Field Change Request Form	Minor Field Change Request Form
Section 2.3.2	Page 2-6	Text Revision	Text removed and instead reference Loveland Municipal Code Title 18
Section 3.1.2	Page 3-1	Text Revision	Change "Final Mylar Drawings" to "Final Drawings" and update to keep up with technology updates.
Section 3.1.3	Page 3-1	Text Revision	Vertical Datum. Change to "Local Entity's Vertical Datum"
Section 3.1.4	Page 3-1	Text Revision	Expiration of Plan Set - Change title to be consistent with what title is decided for Section 2.2.2
Section 3.2.2	Page 3-2	Plan Site Option	22"x34" Plans as an option so 11"x17" can be true half-size
Section 3.2.6	Page 3-3	Electronic PE Stamps	Remove "wet stamped" plan requirements & allow electronic PE stamps per Colorado Board of Registration requirements
Section 3.2.7	Page 3-4	Scale Requirements	Instead of 1"=30' for all Signing & Striping Plans. "Plans should be legible as determined by the Local Entity Engineer
Section 3.2.12	Page 3-4	Legend of Symbols	Remove scale requirements for Key Map & Vicinity Map. Instead Key Map & Vicinity Map shall be legible
Section 3.3.1	Page 3-5	Indemnification Statement	Legend of Symbols. Each symbol & line type should be on the cover sheet or each sheet
Section 3.3.1.F	Page 3-5	Project Title	Indemnification Statement. For Loveland, use signature block instead
Section 3.3.4.A.7	Page 3-9	Text Revision	Preamble (Project Title) - Layout doesn't follow what FC uses for Utility Plans. Loveland only
Section 3.3.4.D	Page 3-9	Cross-Sections	Add language "Shall conform to local, state, and federal requirements including SB18-167"
Section 4.1.4.D	Page 4-3	Text Revision	Cross-Sections - Two sections (e. and f.) should be Loveland only
Section 4.1.5	Page 4-5	Link Volume Worksheets	Removed outdated requirements with text revisions
Section 4.2.1.B.10	Page 4-6	Bike and Ped Connections	Removed link volume requirements and link volume worksheets
Section 4.3.3.A	Page 4-10	Link Volumes	Added text. Thompson School District does not generally provide busing for students within 1.5 miles of an elementary school
Section 4.3.3.B	Page 4-11	Link Volumes	Removed link volume requirements for a Master TIS
Section 4.3.3.C	Page 4-12	Link Volumes	Removed link volume requirements for a Full TIS
Section 4.3.4.A	Page 4-12	Text Revision	Removed link volume requirements for an Intermediate TIS
Section 4.3.4.A	Page 4-13	Link Volumes	Removed GDP and PDP text
Section 4.3.4.C	Page 4-16	Link Volumes	Removed link volume requirements
Section 4.3.4.D	Page 4-17	Link Volumes	Removed link volume requirements
Section 4.4.2.B.2	Page 4-19	Text Added	Removed link volume requirements
Section 4.5.1.C	Page 4-24	ACF Link Volumes	Added text. Signal timing parameters for the existing conditions will be the actual signal timing in effect
Section 4.5.3.A.2	Page 4-25	Link Congestion	Removed link volume requirements
Table 4-1	Page 4-26	Table 4-1	Removed Table 4-1 (Roadway Links) requirements associated with link volumes
Section 4.6	Page 4-33	LOS Mitigation Measures	Section 4.6 revised to allow mitigation that is reasonably related and proportional to impact that is not feasible (or not desired by the Local entity) to address the specific LOS issue. This revision is already adopted by the City of Fort Collins that the City of Loveland would also like to

Revisions to the Larimer County Urban Area Street Standards (2021)

Standard	Page	Item	Description/How Changed
			adopt this as well. Adopts Fort Collin's Transportation Demand Management Measures (TDM) also for Loveland City Limits and GMA
Section 4.6.8	Page 4-34	Alternative Mitigation Strategies	Added Section 4.6.8 Alternative Mitigation Strategies for intersections that do not meet overall level of service standards, and reasonably related and proportional mitigation to address the level of service is not possible or not desired by the Local Entity, an Alternative Mitigation Strategy may be requested and considered. This section is already adopted by the City of Fort Collins that the City of Loveland would also like to adopt.
Section 5.2.1.C	Page 5-2	Fill Requirements	Lower values to have a liquid limit greater than 30 and a plasticity index greater than 15 for higher quality fill for ROW grading. Fort Collins only
Section 5.4.1	Page 5-4	Text Revision	Fix reference error and reference Table 5.1
Section 5.5.1	Page 5-5	Text Revision	change PICPs to "Civil Construction Plans"
Section 5.6.1.B	Page 5-6	Waiver	The requested waiver shall be signed and stamped by a Colorado Professional Engineer
Section 5.6.2.A	Page 5-7	Low Impact Development	Add low impact development systems text; over-watering lawns, subsurface irrigation, etc.
Section 5.6.2.A.9.b	Page 5-7	Drain Lines	Drain lines may be installed in the same trench as the sanitary sewer, except in Loveland city limits
Section 6.1.1.E	Page 6-1	Permits Required	Change to "Construction Management Plans (Fort Collins only)". Also do we want to include F. "Lane rental fees (Fort Collins only)"
Section 6.1.1.F	Page 6-2	Hazardous Materials	Hazardous Materials. Changed wording to "All moving of hazardous materials must be permitted through the State of Colorado"
Section 6.1.1.I	Page 6-2	Delete Section I	Delete section I: Grading, Excavating, and Fill Permit in Loveland
Section 6.1.2	Page 6-2	Blasting Permits	Add language that indicates Blasting Permits are to be acquired through the local Fire Authority
Section 6.1.7.A.6	Page 6-4	Affected Area	Add language to Refer to Chapter 25, Reconstruction and Repair for additional information
Section 6.1.7.A.11	Page 6-4	Erosion Control Inspector	Change notification from 24 hours to 48 hours
Section 6.1.7.B.1	Page 6-5	Traffic Control Plan Text	"Plan" changed to "Traffic Control Plan (TCP)"
Section 6.1.7.B.3	Page 6-5	Text Revision	"Engineer" changed to "Local Entity Engineer"
Section 6.1.7.B.4.b	Page 6-5	Text Revision	Change text from "One Call" to "Colorado 811"
Section 6.1.7.B.7	Page 6-6	Text Revision	"Engineer" changed to "Local Entity Engineer"
Section 6.1.7.B.8	Page 6-6	Text Revision	"faxing" changed to "emailing"
Section 6.1.8.A	Page 6-7	Text Revision	Stop work fine changed from a specific dollar amount to "Per the Local Entity's requirements"
Section 6.1.8.B	Page 6-7	Mitigation Expenses	Title changed to "Mitigation Expenses for Unsafe or Untimely Performance"
Section 6.1.9.A	Page 6-8	Insurance Requirements	Text changed to "Developer is responsible to provide insurance prior to any work"
Section 6.1.10	Page 6-9	Licensing	Loveland to be included in Licensing. "Licensing in Fort Collins and Loveland (City Limits)"
Section 6.2.1	Page 6-10	Application	Delete Appendix E-6 reference
Section 6.2.2.4	Page 6-11	Public Improvements Opinion of Cost	Public Improvements Opinion of Cost are to be signed and stamped by a P.E.
Section 6.2.3	Page 6-11	Construction Coordination Meeting	Separate preconstruction meetings for utilities, if needed, are the responsibility of the Developer to coordinate
Section 6.2.3.B	Page 6-11	DCP Meeting	Text changed to "For the items required prior to the DCP meeting, contact the Local Entity Engineer..."
Section 6.2.4	Page 6-12	Text Revision	Delete 1 -4. Already taken care of through the routing process
Section 6.2.4	Page 6-13	DCP Signature	Added "DCP" text to 11 and 12 (i.e. "Applicant's signature on the DCP")
Section 6.2.5	Page 6-13	Text Revision	Wording changed to improve grammar. "DCP" text also used instead of "permit"
Section 6.2.6.B	Page 6-14	Text Revision	Reference surety agreement
Section 6.2.6.C	Page 6-14	Reduction of Surety	Reduction of the surety based on the level of completion of the project
Section 6.2.6.C.3	Page 6-14	Text Revision	"Engineering Division" changed to "Local Entity Engineer"
Section 6.3.1	Page 6-15	Text Revision	"Public Improvement Construction Plans" changed to "Civil Construction Plans"
Section 6.3.2	Page 6-15	Text Revision	Text changed to "The permit application and information is available on the Local Entity's website"
Section 6.4	Page 6-17	Text Revision	Removed text and instead reference to contact the local entity for the revocable encroachment permit application
Section 6.5.1	Page 6-17	Text Revision	Refer to local entity for permit requirements
Section 6.5.2.A	Page 6-18	Moving Buildings Notification	Notification of house move changed from 24 hours to 72 hours. Also applicant required to obtain all necessary permits...
Section 6.5.2.B	Page 6-19	Text Revision	Text added. Permits are issued for a single move, which can contain multiple structures.
Section 6.6	Page 6-20	Text Revision	Permit for house numbers on curbs text deleted
Section 6.6.A	Page 6-20	Text Revision	"floggers" changed to "flaggers"
Section 6.6.B	Page 6-21	Stockpiling Permit	Stockpiling Permit text removed. Instead refer to Local Entity for permit application and requirements
Section 6.7	Page 6-22	Fees	Deleted text on fees. Instead refer to Local Entity for current requirements and fees
Section 7.5.1.I	Page 7-ii	Landscaping	Landscaping - Adding language on Waterwise Landscape

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Standard	Page	Item	Description/How Changed
Section 7.2.1	Page 7-1	Signs at Future Road Extensions	Signs shall be placed at the end of roads planned for future road extensions
Section 7.2.3.B	Page 7-3	Residential Driveways on Collectors	No direct access to residential driveways from Major Collector Streets (Loveland only)
Section 7.4.1.A.2	Page 7-4	Minimum Tangent Length	Minimum Tangent Length. In constrained or re-development areas allowed some flexibility on the minimum tangent length (see text)
Table 7-2	Page 7-7	Detached Sidewalks	Table 7-2 Loveland. Detached sidewalks required for all streets other than alleys.
Table 7-2	Page 7-7	Residential Driveways on Collectors	Restrict direct access on Minor Collector Streets for residential driveways
Table 7-3	Page 7-8	Stopping Sight Distance	Table 7-3 Fort Collins. Use CDOT State Highway Access Code for Stopping Sight Distance
Table 7-3	Page 7-8	K values	Table 7-3 Fort Collins. Use current AASHTO K values for vertical curves
Table 7-4	Page 7-10	K values	Table 7-4 Loveland. Loveland to use current AASHTO K values?
Table 7-5	Page 7-11	Minimum Arc Length	Min. Arc Length for Lanes and primary access alleys = 100'
Section 7.4.1.B.2	Page 7-12	Minimum Flowline Grades	Minimum Flowline Grades. Minimum FL grade of cul-de-sacs shall be 1.0 percent
Section 7.4.1.B.3	Page 7-12	Grade Breaks	Grade Breaks. Change from 0.4 percent to 0.5 percent
Section 7.4.1.B.6	Page 7-12	Vertical Clearance	Vertical Clearance. Minimum vertical clearance changed from 13.5 feet o 16.5 feet
Section 7.4.1.C.1	Page 7-13	Stopping Sight Distance	Stopping sight distance changed to be consistent with Use CDOT State Highway Access Code
Table 7-6	Page 7-13	Stopping and Passing Sight Distance	Stopping and Passing sight distance changed to be consistent with Use CDOT State Highway Access Code
Section 7.5.1.D	Page 7-16	Barrier Curb	All barrier curb shall be full depth and not glue down unless otherwise approved by the Local Entity Engineer
Section 7.6.4.C	Page-7-19	Temporary Turnarounds	Temporary turnarounds shall be paved or an all-weather recycled asphalt surface as approved by the Local Entity Engineer
Section 7.7.3.B	Page 7-20	Subdrains	Subdrains systems must be owned and maintained by a private party other than the Local Entity
Section 7.7.3.C.1.k	Page 7-20	Subdrains	Subdrain designer required to show locations of proposed sub drain and plan to avoid conflicts (i.e. Tree roots, etc.)
Section 7.8.4	Page 7-23	Vertical Clearance	Vertical Clearance. Change from 13.5 feet to 14.0 feet.
Figure 7-1F	Figure 7-1F	Bike Lanes	Added striped buffered bike lane and protected bike lane options
Figure 7-2F	Figure 7-2F	Bike Lanes	Added striped buffered bike lane and protected bike lane options
Figure 7-2.5F	Figure 7-2.5F	Bike Lanes	Added striped buffered bike lane and protected bike lane options
Figure 7-3F	Figure 7-3F	Bike Lanes	Added striped buffered bike lane and protected bike lane options
Figure 7-4F	Figure 7-4F	Bike Lanes	Added Buffered bike lanes
Figure 7-5F	Figure 7-5F	Bike Lanes	Added Buffered bike lanes
Figure 7-6F	Figure 7-6F	Bike Lanes	Added Buffered bike lanes. Added 5' (min.) sidewalk width and 8' (min.) parkway width
Figure 7-7F	Figure 7-7F	Bike Lanes	Added 5' (min.) sidewalk width and 8' (min.) parkway width
Figure 7-8F	Figure 7-8F	Bike Lanes	Added 5' (min.) sidewalk width and 8' (min.) parkway width
Figure 7-9F	Figure 7-9F	Sidewalk Width	Added 5' (min.) sidewalk width
Figures 7-?L)			Add Loveland's proposed cross section changes
Figure 7-17	Figure 7-17	Vertical Curves	New Vertical Curve Chart
Figure 7-18	Figure 7-18	Vertical Curves	New Vertical Curve Chart
Section 8.2.5	Page 8-2	Definition	Added definition of vph (vehicles per hour) to "Definitions of Terms" in Section 1.7
Section 8.2.6.C	Page 8-3	Text Revision	Modified text in Section C to further describe Figure 8-19
Section 8.2.7.B	Page 8-3	Text Revision	Modified text in Section B from "want" to "recommend"
Section 8.2.8.B	Page 8-4	Text Revision	Refer to Local Entity Engineer for which Bus turning template to use
Section 8.2.8.C	Page 8-4	Text Revision	Refer to LCUASS Appendix I for roundabout turning template requirements
Section 8.2.10.B.3	Page 8-6	Glue down Curb	Glue down Curb. Change text from "left-turn lane" to "auxiliary lane" to leave possibilities open
Section 8.2.14.B	Page 8-7	Text Revision	Reworded text to read better
Section 8.2.16	Page 8-8	Roadway Narrowing	Roadway Narrowing may not be used on Major Collectors or Arterials without a Formal Variance per Section 1.9.4
Section 8.2.17	Page 8-8	Roundabouts	Roundabouts shall be designed in accordance with LCUASS Appendix I
Figure 9-1	Page 9-iii	Figure 9-1	Figure 9-1 Access Spacing is missing from the on-line version
Section 9.3.3	Page 9-7	Sight Distance	Section 9.3.3 Sight Distance - reference the CDOT State Highway Access Code
Section 9.3.7.E	Page 9-8	Cross slope	Maximum cross slope per latest ADA requirements
Section 9.3.7.H	Page 9-9	Garage Doors	In Loveland, garage doors that face an alley shall not be in an area that is between 5 feet and 20 feet from the edge of pavement of the alley
Section 9.4.6.A	Page 9-10	Driveways	Driveways shall be concrete pavement within the public right-of-way

Revisions to the Larimer County Urban Area Street Standards (2021)

Standard	Page	Item	Description/How Changed
Section 9.4.10	Page 9-11	Change in Use	Change in use updated to be consistent with CDOT State Highway Access Code (SHAC) criteria (20% or 100 total daily trips)
Section 10.1.2	Page 10-1	AASHTO Design	Update to reference latest AASHTO. Also added "Mechanistic Empirical" design procedures may be substituted
Table 10-1	Page 10-3	Flexible Pavement Design Criteria	Added a note 7 to the Min. Structural Number in Table 10-1
Section 10.4.2	Page 10-6	Asphalt Thickness	Referenced 10-1 and deleted alternate composite section text
Section 10.4.2.A.1	Page 10-7	Text Revision	Changes 1/2" to 0.5 inch (Typical)
Section 10.5.1.B.3	Page 10-9	Text Revision	Referenced latest edition of the CDOT Pavement Design Manual
Section 11.1.1	Page 11-1	Text Revision	Remove old AASHTO structural standards from list
Section 11.1.3.A	Page 11-2	Text Revision	Working Stress Design (WSD) text modified
Section 11.2.1	Page 11-2	Text Revision	Text modified to clarify for spans greater than 20 feet
Section 11.2.4.B.3	Page 11-3	Pedestrian Load	Pedestrian load reduced from 85 psf to 75 psf per AASHTO Manual
Section 11.2.5.B.2	Page 11-5	Design Live Loads	Design live loads per AASHTO
Section 11.3.2	Page 11-8	Bicycle Railing	Railings per AASHTO
Section 12.1	Page 12-1	Utility Locations	City of Fort Collins graphic revision showing utilities
Section 12.2.1	Page 12-1	Text Revision	Add sentence for Loveland see the Water and Wastewater Development Standards latest edition
Section 12.2.3.A	Page 12-1	Access Covers	Add language to adjust 1/4 inch below the finished surface per Drawing 1201
Section 12.2.3.B	Page 12-1	Access Covers	Add language facilities located within the sidewalk should be ADA compliant
Section 12.2.5.A	Page 12-2	PVC Sleeves	Add language indicating PVC sleeves should extend from ROW to ROW
Section 12.2.5.D	Page 12-2	Private Utilities	Private utilities shall be outside of the public ROW unless otherwise approved by the Local Entity Engineer
Section 12.2.6	Page 12-3	Text Revision	Delete Sections A and B since they just refer to other sections
Section 12.2.6.C	Page 12-3	Text Revision	Move this section to "Intersections"
Section 12.3.2.A	Page 12-4	Other Systems	Refer to Local Entity's regulations for other systems (Cable TV, telephone, Broadband, Fiber Optic, Wireless Communications, etc.)
Section 12.3.2.C	Page 12-4	Pole and Sign Locations	Pole and sign locations shall conform to the MUTCD and AASHTO requirements
Section 12.3.3	Page 12-5	Utility Crossings with Bridge Structures	Include fiber optics, broadband, wireless communications, etc.
Section 13.2.1	Page 13-1	Name Selection System	Update website link address
Section 13.2.2	Page 13-1	Street Naming Criteria	Update website link address
Section 13.2.3	Page 13-1	Major Street Names	Include Fort Collins website link address
Table 13-1	Page 13-2	Road Naming Criteria	Change title to "Standardization of Road Naming Criteria"
List of Figures	Page 14-ii	Text Revision	Update List of Figures to contain figures referenced in the text
Section 14.2.1.B2	Page 14-3	Streetlight Fixtures	Streetlight fixtures as approved by the Local Entity
Section 14.2.1.B11	Page 14-4	Ped Buttons	Ped buttons per ADA Standards
Section 14.3.1.F	Page 14-5	Signs	Signs shall comply with the MUTCD
Section 14.3.2.B	Page 14-7	Signs	Add text to include detached sidewalk
Section 14.3.3.E	Page 14-9	Signs	Also reference CDOT guide
Section 14.4.2.G	Page 14-11	Striping	Coordinate with Appendix I to match roundabout signing and striping standards
Section 15.1.2	Page 15-1	Street Lighting Design Deposit	Replaced "\$300 design electrical deposit" with "required electrical design deposit"
Section 16.1.2	Page 16-1	Text Revision	Added Standards for Transportation Facilities as Published by the US Access Board and the Guidance on the 2010 Standards for Accessible Design
Section 16.2.1.D	Page 16-2	In-Fill Sidewalk	Loveland to remove Industrial areas exception for sidewalk upgrades and replace with unless otherwise approved by the Local Entity Engineer
Section 16.2.1.G	Page 16-2	Text Revision	Change sidewalk thickness to 6" minimum. This was missed in the previous update.
Section 16.2.1.H	Page 16-2	Text Revision	Change 1/4 inch per foot cross slope to less than or equal to 2%
Section 16.2.1.H.3	Page 16-3	Text Revision	added "ramp" to text for clarify
Section 16.3.1.A.2	Page 16-3	Text Revision	Added text "Driveways shall be positioned as to not preclude the necessary mid-block ramp"
Section 16.6.2	Page 16-5	Text Revision	Added accessible paths to the text
Section 17.1.1	Page 17-1	Text Revision	Included MUTCD and NACTO "Urban Bikeway Design Guide" in references
Section 17.1.6	Page 17-1	Text Revision	Replace "utility" with "requirements and"
Section 17.2.1	Page 17-2	Bike Lanes	Included protected bike lanes on arterial roadways in Fort Collins
Section 17.2.4	Page 17-3	Bicycle Detection	Added bicycle detection text

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Standard	Page	Item	Description/How Changed
Section 17.2.5	Page 17-3	Bike Facilities	Text revisions for bike facilities at intersections
Section 17.3.1.B	Page 17-4	Text Revision	Changed text to be consistent with Figure 7-14
Section 17.3.2.A	Page 17-4	Bike Paths	Added text bike paths shall be routed to avoid the removal of any significant trees. Where possible bike paths should be a min. of 4' from tree
Section 17.3.2.C	Page 17-4	Trees, Vegetation	Add text that clarifies that vegetative material to be removed does not include significant trees
Section 17.3.9.A	Page 17-6	Text Revision	replace "utilities department" with "requirements and standards"
Section 17.3.10.C	Page 17-7	Text Revision	Removed text indicating slopes greater than 6 percent
Section 17.3.11B	Page 17-8	Text Revision	Revised text on Pedestrian and Bicycle Crossings to be consistent with current practices
Section 17.3.15.A	Page 17-9	Text Revision	Added text that curb ramps shall meet ADA requirements
Section 17.4.1.B	Page 17-10	Private Bike Facilities	For private bike parking facilities refer to LMC (Loveland only)
Section 18.1	Page 18-1	Traffic Calming	All traffic calming shall be approved by the local fire authority
Section 18.1.3	Page 18-1	Roundabouts	Added Appendix I reference for roundabouts
Section 18.3.4	Page 18-3	Roundabouts	Added Appendix I reference for mini roundabouts
Chapter 19	entire chapter	Text Revisions	Misc. formatting indentions and text alignment to be consistent
Figure 19-6	Figure 19-6	Off Street Parking Setback	Local Entity Engineer can vary parking setback distance requirements on a case-by-case basis
Section 20.2	Page 20-1	Opinion of Cost	Remove opinion of cost items and reference form
Chapter 21	reserved	Reserved for later	Reserved for later. No changes
Section 22.2.3.D	Page 22-9	Flash Fill	Flash fill may be used if approved by the City Engineer on a case-by-case basis
Section 22.2.3.E	Page 22-9	Bedding Requirements	Reference each local entity's specific bedding requirements
Section 22.4.4.B	Page 22-26	Borings	Reference Chapter 25 for borings
Section 23.1.3.B.2	Page 23-5	Text Revisions	Formatting revisions
Section 23.14.2.C	Page 23-8	Text Revision	CDOT Spec section checked. Modified section reference number reference
Section 24.1.1.E	Page 24-1	Text Revisions	Misc. text revisions
Section 24.1.1.H	Page 24-1	Text Revisions	Misc. text revisions
Section 24.2.4	Page 24-2	Text Revisions	Misc. text revisions
Section 24.3.4	Page 24-3	Failure to Complete Repair	15% fee for the value of the work or \$500 administrative fee whichever is greater
Section 24.4.3	Page 24-4	Inspection and Punch list	Developer shall have 10-days to provide the Local Entity with a plan and schedule to complete the repairs
Section 25.1.6.A	Page 25-1	Text Revision	Renaming PICPs as Civil Construction Plan
Section 25.2.4	Page 25-5	Flow Fill of Borings	Flow fill will be required on soft surface potholing per the discretion of the Local Entity
Section 25.2.5.C.3.b	Page 25-6	Borings	If there are multiple bore holes within an area, the Local Entity may require the area to be sawcut, removed and patched
Section 25.5.1.A	Page 25-8	Street Cuts and Patching	Temporary concrete patch may be used for winter patching of street cuts when temperatures are below requirements for asphalt patching
Section 25.5.1.I	Page 25-9	Trench Plates	The use of steel trench plates may be granted by the Local Entity. Asphalt or rubber trench plate ramps should be used with steel plates
Table 25-1	Page 25-11	Patch Requirements	Minimum Patch Requirements. 6 foot minimum width on residential transverse patches
Appendix C	see redlines	FC Streetscape Design Standards	Misc. text revisions. See redlines