

CLDSM REVISION LOG

The original effective date of the Charlotte Land Development Standards Manual is December 1, 2006. This log is a description of all standard revisions from that date forward.

REVISION NO.	REVISION DATE	STANDARD No.	NAME	DESCRIPTION OF REVISION
1	1/1/2008	10.22	Concrete Sidewalks	Changed cross-slope label to 1/4" per foot
1	1/1/2008	10.24A	Commercial Type II and Residential Drop Curb Type I Driveway with Sidewalk Abutting Curb (2'-6" Curb and Gutter)	Updated driveway width table, adjusted cut/fill slope percentages to match other DW details
1	1/1/2008	10.24B	Commercial Type II and Residential Drop Curb Type I Driveway with Sidewalk Abutting Curb (6"X18" Vertical Curb)	Updated driveway width table, adjusted cut/fill slope percentages to match other DW details
1	1/1/2008	10.24C	Commercial and Residential Drop Curb Driveway with Sidewalk Abutting Curb	Updated driveway width table
1	1/1/2008	10.25A	Residential Drop Curb Type I Driveway with Planting Strip (2'-6" Curb and Gutter)	Updated driveway width table
1	1/1/2008	10.25C	Residential Drop Curb Type I Driveway with Planting Strip (6"X18" Vertical Curb)	Updated driveway width table, Removed overprint "std. no"
1	1/1/2008	10.26	Drop Curb Driveway - Monolithic Curb and Sidewalk	Updated driveway width table
1	1/1/2008	10.27A	Residential Driveway (Type I) Valley Gutter	Updated driveway width table, adjusted cut/fill slope percentages to match other DW details
1	1/1/2008	10.27B	Commercial Type II Driveway For 2'-0" Valley Gutter	New detail
1	1/1/2008	10.37	Typical Local Residential To Local Limited Street Taper	Curb lines adjusted to align across intersection; added note #4
1	1/1/2008	11.01	Local Residential Street Typical Section	Removed "Marshall Mix" pavement specifications, Intermediate course changed to S9.5B from S9.5A
1	1/1/2008	11.02	Local Residential Typical Ditch Type Street Section	Removed "Marshall Mix" pavement specifications, Intermediate course changed to S9.5B from S9.5A
1	1/1/2008	11.03	Divided Residential Street Typical Section	Removed "Marshall Mix" pavement specifications, Intermediate course changed to S9.5B from S9.5A
1	1/1/2008	11.04	Local Limited Residential Street Typical Section	Removed "Marshall Mix" pavement specifications, Intermediate course changed to S9.5B from S9.5A
1	1/1/2008	11.05	Local Limited Residential Typical Ditch Type Street Section	Removed "Marshall Mix" pavement specifications, Intermediate course changed to S9.5B from S9.5A
1	1/1/2008	11.06	Residential Collector Street Typical Section	Removed "Marshall Mix" pavement specifications, Intermediate course changed to S9.5B from S9.5A
1	1/1/2008	11.07	Residential Collector Street Ditch Type Typical Section	Removed "Marshall Mix" pavement specifications, Intermediate course changed to S9.5B from S9.5A
1	1/1/2008	11.08	Limited Residential Collector Street Type Typical Section	Removed "Marshall Mix" pavement specifications, Intermediate course changed to S9.5B from S9.5A
1	1/1/2008	11.10	City Of Charlotte 45' Local Traditional Neighborhood Development Street	Removed "Marshall Mix" pavement specifications, Intermediate course changed to S9.5B from S9.5A
1	1/1/2008	11.11	Commercial Street Typical Sections	Removed overprint "std. no"
1	1/1/2008	11.14	Divided Private Street Typical Sections	Removed "Marshall Mix" pavement specifications
1	1/1/2008	11.15	Typical Sections Improvement Existing NCDOT Thoroughfares	Removed detail from manual
1	1/1/2008	11.18	Residential Hammerhead Detail	Added R/W, sidewalk, and planting strip dimensions; added ramps
1	1/1/2008	11.21	Oversized Residential Cul-De-Sacs with Raised Planter Island	Added back of curb radius dimension for 2'-6" C&G; revised note #2
1	1/1/2008	20.00B	NCDOT Standards Approved For Use in the City of Charlotte and Charlotte ETJ	Fixed 840.04 and 840.05 to list correct standard reference 840.54
1	1/1/2008	20.00C	NCDOT Standards Approved For Use in the City of Charlotte and Charlotte ETJ	Added note regarding waffle wall to 840.45
1	1/1/2008	20.03	Double Brick Catch Basin 15"-36" Pipe	Revised note #1 per NCDOT requirements
1	1/1/2008	20.22	Flared End Section 12" to 72" Pipe	Renumbered - previously 20.23A, added 3:1 note on drawing in lieu of H:V column in data block; Minimum concrete PSI in note #3 changed from 4000 to 3600
1	1/1/2008	20.34	Offset Catch Basin	Changed slope of flume under grate from 0.5% to 1"/ft
1	1/1/2008	30.00	Special Erosion Control Requirements & Notes	New detail
1	1/1/2008	30.01	Temporary Sediment Trap	New detail
1	1/1/2008	30.02	Gravel and Rip Rap Sediment Basin	Removed detail from manual
1	1/1/2008	30.02A	Skimmer Sediment Basin	New detail
1	1/1/2008	30.02B	Skimmer	New detail
1	1/1/2008	30.03	Sediment Basin	New detail
1	1/1/2008	30.06A	Temporary Silt Fence	Removed alternate installation detail; revised filter fabric anchor depth; 24" filter fabric above ground
1	1/1/2008	30.06B	High Hazard Temporary Silt Fence	Removed alternate installation detail; revised filter fabric anchor depth; 24" filter fabric above ground
1	1/1/2008	30.09	Hardware Cloth and Gravel Inlet Protection	New detail
1	1/1/2008	30.12	Gravel and Rip Rap Filter Berm Basin	Added data block; updated volume and surface area req'ments; DA <= 5 AC
1	1/1/2008	30.19	Baffle Installation	Revised note #3; added note #5
1	1/1/2008	30.20	Embankment Matting Detail	Added notes #2 and #4
1	1/1/2008	40.03	Large and Small Maturing Tree Pit with Grate in Sidewalk (Plan)	Updated pit dimensions per City Arborist
1	1/1/2008	40.03A	Large and Small Maturing Tree Pit with Grate in Sidewalk (Section)	Updated pit dimensions per City Arborist
1	1/1/2008	40.03B	Large and Small Maturing Tree Pit with Grate in Sidewalk (Section)	Updated pit dimensions per City Arborist
1	1/1/2008	40.03C	Large and Small Maturing Tree Pit with Grate in Sidewalk (Section)	Updated pit dimensions per City Arborist
1	1/1/2008	50.09B	Parking Standards (Continued)	Revised note #4 regarding wheelstops
1	1/1/2008	50.11	Signage and Pavement Markings at Roundabouts	Fixed 20' dimension placement behind yield line
2	7/1/2008	21.00 - 21.23	2100 Series - "Stormwater BMP Details"	Added new section to manual: 2100 Series - "Stormwater BMP Details" for use with Post-Construction Controls Ordinance, effective July 1, 2008
2	7/1/2008	20.31A/B	Best Management Practices Wet Pond details	These details are no longer needed - they replaced by new details 21.05 through 21.09
2	7/1/2008	Specs	Removal of error	Remove the words "and Vert." from Section I.B.1.f. of the Specifications and Special Provision Notes

REVISION NO.	REVISION DATE	STANDARD No.	NAME	DESCRIPTION OF REVISION
3	1/30/2009	Text pg 16, 17	Notes and Special Provisions	Revised text regarding posting of bonds; added CDOT Pavement Marking Stds to reference list
3	1/30/2009	10.23	Monolithic Concrete Curb and Sidewalk	Revised dimension "A," added dimension "B"
3	1/30/2009	10.32B	Accessible Ramp Sections without planting strip (2'6" Curb & Gutter)	Added 6" sidewalk thickness dimension
3	1/30/2009	11.16	City of Charlotte and ETJ Residential Cul-de-sac Detail	Removed "20'R", "IN ETJ", "33' ETJ" - now consistent with NCDOT details
3	1/30/2009	20.28	Subdrain Detail	Added notes 5-9.
3	1/30/2009	30.02A	Skimmer Sediment Basin	Clarified Sediment Storage elevation & dimensions at spillway.
3	1/30/2009	30.03A	Sediment Basin	Clarified Sediment Storage elevation & dimensions at spillway, add note #5 re: H; changed std to 30.03A
3	1/30/2009	30.03B	General Notes - Sediment Basin	Inadvertently removed during previous revision. Added back in & revised to match NCDENR manual
3	1/30/2009	40.03	Large and Small Maturing Tree Pit with Grate in Sidewalk (Plan)	Added note re: City std tree grate
3	1/30/2009	40.03A	Large and Small Maturing Tree Pit with Grate in Sidewalk (Section)	Added reference to CLDS #20.28
3	1/30/2009	40.03B	Large and Small Maturing Tree Pit with Grate in Sidewalk (Section)	Added reference to CLDS #20.28
3	1/30/2009	40.03C	Large and Small Maturing Tree Pit with Grate in Sidewalk (Section)	Added reference to CLDS #20.28; added 10' width dimension.
3	1/30/2009	40.06	6' Tree Planting Strip UMUD Only	Added reference to CLDS #20.28
3	1/30/2009	40.08A	Median Greater than 120 Inches, Excavation, Drainage and Backfill	Changed top of planting mix to be a horizontal line; "removed 12" max at center"
3	1/30/2009	40.08B	Median Greater than 120 Inches, Excavation, Drainage and Backfill	Changed top of planting mix to be a horizontal line; "removed 12" max at center"
3	1/30/2009	40.08C	Median Greater than 120 Inches, Excavation, Drainage and Backfill	Changed top of planting mix to be a horizontal line; "removed 12" max at center"
4	7/1/2009	10.34B	Accessible Ramp Sections Monolithic Curb and Sidewalk	Removed stray dimension arrows/typo
4	7/1/2009	10.36B	Culvert Crossings on Residential and Commercial Streets	added info to note #9 re: clear zone and/or handrail
4	7/1/2009	10.40A	Directional Accessible Ramp with Small/Medium Curb Radii	New Detail
4	7/1/2009	10.40B	Directional Accessible Ramp with Large Curb Radius	New Detail
4	7/1/2009	11.07	Residential Collector Street Ditch Type Street Typical Section	Revised Street Classification System to properly show "Class V"
4	7/1/2009	11.08	Limited Residential Collector Street Typical Section	Revised Street Classification System to properly show "Class V"
4	7/1/2009	11.09	Arterial Street Typical Sections	Revised Street Classification System to properly show "Classes III and IV"
4	7/1/2009	11.12	Divided Commercial Street Typical Section	Revised title of detail for clarity
4	7/1/2009	11.13	Private Street Typical Sections	Revised title of detail for clarity
4	7/1/2009	11.18A	Residential Hammerhead Detail	Changed standard detail number from 11.18 to 11.18A
4	7/1/2009	11.18B	Temporary Turnaround Local Residential Street (Optional)	New Detail
4	7/1/2009	21.00	Bioretention Plan	Added notes re: vandal-proof locking cap, double hammered hardwood mulch
4	7/1/2009	21.01	Bioretention Cross-section	Minor adjustments for clarity, added note #7
4	7/1/2009	21.23	Underground Sand Filter	added notes for clarity and to match BMP Design Manual re: 1" debris screen, 12" gravel around drain
4	7/1/2009	30.06A	Temporary Silt Fence	Removed note #1, adjusted note numbering, adjusted bury depth to 8", post spacing to 6' Max
4	7/1/2009	30.06B	High Hazard Temporary Silt Fence	Adjusted note #1 to read "wire fencing" instead of "filter fabric fence", adjusted bury depth to 8"
4	7/1/2009	50.08A	End of Roadway Marker	Removed (ER-1) from title, added notes 3 & 4, added Connectivity sign / 50.08C, added OM4-3 note
4	7/1/2009	50.08B	End of Roadway Marker Guard Rail Clamp Installation	Removed (ER-1) from title and notes
4	7/1/2009	50.08C	Street Connectivity Sign for End-of-Road Barricade	New Detail
4	7/1/2009	50.09C	Parallel Parking Standards	Show reverse curves on curbline with chamfers optional, show 22' min length of pkg space
4	7/1/2009	TEXT pg 17-21	Notes and Special Provisions	Added List of Approved Plant Species (Trees & Shrubs) to text.

REVISION NO.	REVISION DATE	STANDARD No.	NAME	DESCRIPTION OF REVISION
5	7/1/2010	20.00B	NCDOT Standards for use in City of Charlotte and ETJ	Added reference to 20.05A & B
5	7/1/2010	20.00C	NCDOT Standards for use in City of Charlotte and ETJ	Removed reference to "840.06 Manhole Frame and Cover" - does not exist.
5	7/1/2010	20.05A	Slab Type Catch Basin 15" Thru 48" Pipe	Added old std. detail back in CLDSM to provide details how to build slab type CB with 4" deep MH cover
5	7/1/2010	20.05B	Manhole Ring and Cover for Slab Type Catch Basin	Added old std. detail back in CLDSM to provide details how to build slab type CB with 4" deep MH cover
5	7/1/2010	20.28	Subdrain Detail	Clarified PVC ratings, add reference to Type CP and SP HDPE. Allow Sched. 40 PVC under roadways.
5	7/1/2010	21.00	Bioretention Plan	Added note regarding Post-Construction Controls Easement (PCCE)
5	7/1/2010	21.01	Bioretention Cross-section	Added PCCE note, clarified specs for stone curtain, underdrain, cleanouts, tree plantings, amended soil
5	7/1/2010	21.02	Bioretention Planting Plan	Added note re: small maturing trees in amended soils
5	7/1/2010	21.03	Bioretention Concrete Curb Spillway	REMOVED
5	7/1/2010	21.06	Wetpond Profile	Added PCCE note, various drafting changes for clarity, moved outlet orifice to perm. pool elev.
5	7/1/2010	21.08	Wetpond Littoral Shelf and Berm detail	Moved outlet orifice to perm. pool elev.
5	7/1/2010	21.11	Wetland Profile	Added PCCE note
5	7/1/2010	21.16	Enhanced Grass Swale Details	Added PCCE note
5	7/1/2010	21.17	Grass Channel	Added PCCE note
5	7/1/2010	21.19	Infiltration Trench	Added PCCE note
5	7/1/2010	21.23	Underground Sand Filter	Added PCCE note
5	7/1/2010	30.01	Temporary Sediment Trap	Removed misleading titles "Cross-section" and "Plan View"
5	7/1/2010	50.12	Emergency Vehicle Median Crossover	Added note #3 re: use at R/I/O entrances only with CDOT approval
5	7/1/2010	TEXT pg 4-5	Section I.B.1. "Public Streets"	Removed Min. Stopping Sight Distance values, added note.
5	7/1/2010	TEXT pg 9	Section I.F.6. "Sidewalks and Driveways"	Added note re: measurement and payment of curb and gutter for drop curb driveways
5	7/1/2010	TEXT pg 13	Section II.E.4. "Storm Drainage: Standards for Design"	Replace reference to 4" PVC or Metal perf. Pipe to instead reference "subdrains"
REVISION NO.	REVISION DATE	STANDARD No.	NAME	DESCRIPTION OF REVISION
6	1/1/2011	Text pg 4, 5, 6	Section B. "Standards of Street Design"	Amended design criteria to match USDG
6	1/1/2011	10.25F	Commercial Type IV Driveway Standard	Clarified dimensions on wings
6	1/1/2011	10.27A	Residential Driveway (Type I) For 2'-0" Valley Gutter	Added 4x4 wings, adjusted driveway width table to account for wings
6	1/1/2011	11.16	Residential Cul-de-Sac Detail	Removed S/W around bulb, removed short C-D-S, removed notes #1 & 6, added #4
6	1/1/2011	11.17	Office / Commercial / Industrial Cul-de-sac Detail	Adjusted Right-of-way outward to accommodate larger planting strip and sidewalk
6	1/1/2011	11.18A	Residential Hammerhead Detail	Removed S/W around bulb, added note #3
6	1/1/2011	11.21	Oversized Residential Cul-de-sac with raised Planter Island	Removed S/W around bulb, added note #7
6	1/1/2011	20.00	NCDOT Standards for use in City of Charlotte and ETJ	Removed reference to 842.01, 842.02, 842.03 (Retaining Walls)
6	1/1/2011	20.03	Brick Double Catch Basin 15" thru 36" Pipe	Removed previous note #1 that exempted this detail from use on ETJ streets. OK now per NCDOT
6	1/1/2011	U-01 through U-07	USDG typical street sections	Added new typical sections for USDG streets
REVISION NO.	REVISION DATE	STANDARD No.	NAME	DESCRIPTION OF REVISION
7	7/1/2011	10.28	Type III Driveway Entrance	Added note re: option for depth of concrete gutter across entrance
7	7/1/2011	10.36A	Culvert Crossings on Residential and Commercial Streets	Replaced "Handrail" reference with "Safety Rail"
7	7/1/2011	10.36B	Culvert Crossings on Residential and Commercial Streets	Replaced "Handrail" reference with "Safety Rail"
7	7/1/2011	20.05A	Slab Type Catch Basin 15" Thru 48" Pipe	Added option for using Drop Inlet Frame and Grate NCDOT standard 840.16
7	7/1/2011	20.23	Rip Rap Aprons at Outfalls Other than SWIM	Added Thickness=10" Min. to match Site Checklist
7	7/1/2011	50.04A	Safety Rail	Changed name from "Typical Handrail" to "Safety Rail" to avoid confusion relating to ADA requirements
7	7/1/2011	50.04B	Safety Rail Warrants	Changed name, revised and updated the warrants. Added detailed exhibits.
REVISION NO.	REVISION DATE	STANDARD No.	NAME	DESCRIPTION OF REVISION
8	1/1/2012	10.27A	Residential Driveway (Type I) For 2'-0" Valley Gutter	Moved Section A-A to middle of apron to better illustrate 6" thickness requirement
8	1/1/2012	11.13	Private Street Typical Sections	Added note 4, re: section not to be used to meet connectivity req'mts of Subdivision/Zoning ordinances
8	1/1/2012	20.00C	NCDOT Standards for use in City of Charlotte and ETJ	Added clarifying note regarding 340.34, Traffic Bearing Junction Box
8	1/1/2012	20.03	Brick Double Catch Basin 15" thru 36" Pipe	Added note 8, re: weep holes
8	1/1/2012	20.17A	Concrete Wingwall With Splash Pad	Fixed Typo: Removed "MIN." label over the "H" column
8	1/1/2012	30.01	Temporary Sediment Trap	Changed Drainage Area max to 1 Ac, per DWQ SW General Permit requirements
8	1/1/2012	30.17A	Seeding Schedule	Removed notes 1 and 2, regarding seeding timeframes, see Site Checklist for new notes.
8	1/1/2012	50.09C	Parallel Parking Standards	Added info to note 5, re: sloping parking toward flow line only permitted if street grade is 2% or more.