




Letter to Industry
LTI #2022-02

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| DCSM Reference: | Articles 9 and 11 |
| Summary of Issue/Topic: | Transportation Standards & Specifications |
| Effective Date: | May 1, 2022 |
| Policy/ Design Requirements/ Guidelines: | Updates to Article 9, Transportation Standards and Article 11, Citywide Specifications of the City of Manassas and Construction Standards Manual (DCSM) to replace the existing chapters and LTI #10, LTI #19 & LTI #20. |
| Background: | These changes are to align the transportation standards of the DCSM with the City's adopted 2040 Comprehensive Plan and Transportation Master Plan. Additional updates are intended to update standards and specifications consistent with best practices and current City policies. Please also see the summary document describing the updates. |
| Contact: | Lance Kilby, P.E. or Nyika Roberson-Ramos, P.E |
| Department: | Engineering |
| Manager | Lance Kilby, P.E. |
| Approval: |  |
| Manager Title: | Director of Engineering |

DCSM Article 9 Update

| Section | Proposed Changes |
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| 9-100: General Criteria | <ul style="list-style-type: none"> ● Sec. 9-100: Introductory paragraph under this section remains with minor updates. ● Sec. 9-110: This section was revised and renamed Transportation Impact Study to reflect multimodality instead of car-centrism as well as include objectives from the Manassas 2040 Comprehensive Plan. ● Sec. 9-110 to 9-140: Moved to new section 9-500 Site Plan and Development. |
| 9-200: Street Functional Classifications | <ul style="list-style-type: none"> ● Sec. 9-200: This section was revised to be more concise. It explains VDOT roadway functional classifications. VDOT definitions were used for each functional classification. ● Sec. 9-220: Deleted ● Sec. 9-230: This section was divided and included in appropriate sections such as 9-310.2 Traffic Calming, 9-520 Site Plan and Development, and Article 2. |
| 9-300: Street Design Requirements | <ul style="list-style-type: none"> ● Sec. 9-300: This section was integrated under a larger section which is the new section 9-300 Complete Street Design. This new section is multimodal and was created to be consistent with the Manassas 2040 comprehensive Plan and the Transportation Master Plan. Most of this section is specifically relocated under section 9-340 Roadway Design. |
| 9-400: Pavement Design Requirements | <ul style="list-style-type: none"> ● Sec. 9-400: Pavement specifications were moved to the new section 9-520.18-9-520.20 under site plan and development ● Sec. 9-430.1: Airport pavement standards were moved to the new section 9-410 under airport. |
| 9-500: Site Plan and Subdivision Requirements and Design Standards | <ul style="list-style-type: none"> ● Sec. 9-500: This section is now section 9-520 and includes all requirements specific to land development (public and private). <ul style="list-style-type: none"> ○ All elements pertinent to transportation (roadways and pedestrian (9-550) & bicycle (9-560) facilities were relocated under the new section 9-300 Complete Street Design. ○ All elements pertinent to storm water were relocated under the new section 9-300 Complete Street Design. ○ All elements pertinent to items required on site plan were moved to Article 2. ○ Includes LTI 019. ● Sec. 9-5100: This section was moved to Article 11-1800. ● Sec. 9-5110: This section was revised and moved to Article 11. |
| 9-600: Parking and Loading Design Standards | <ul style="list-style-type: none"> ● Sec. 9-600: This section was revised for clarity and consistency and moved to the new section 9-340.6 under roadway design. The white box standard for on-street parking was added. ● Sec. 9-630. C: Airport parking requirements were moved to the new section 9-420 under airport. ● Sec. 9-660. E: Airport stacking requirements were moved to the new section 9-430 under airport. |
| 9-700: Street, Site, and Parking Lot Lighting | <ul style="list-style-type: none"> ● Sec. 9-700: This section (except lighting related to the airport) was moved to the new section 9-360.1 under street furniture which also includes three new sub-sections: bus stops & shelter; landscaping; and small aesthetics. It also includes LTI 020. |

DCSM Article 9 Update

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| | <ul style="list-style-type: none"> ● Sec. 9-790: Airport lighting requirements were moved to the new section 9-440 under airport. |
| 9-800: Standards for New Street Names, Addresses, Signs, and Monuments | <ul style="list-style-type: none"> ● Sec. 9-800: This section was moved to the new section 9-370 under complete street design. |
| 9-900: Special Structures | <ul style="list-style-type: none"> ● Sec. 9-900: The pedestrian bridge section was moved to the new section 9-320.4 under pedestrian facilities standards. ● Sec. 9-900: The bridge and overpass section was moved to the new section 9-340.5 under roadway design. |
| 9-1000: Procedure for Work Required Within Existing Public Right-of-Ways, Easements | <ul style="list-style-type: none"> ● Sec. 9-1000: This section was moved to section 9-600. ● Sec. 9-620 Haul Routes added. ● Sec. 9-1020.1 moved to section 9-620.2. ● Sec. 9-630 Steel Plates added. ● Sec. 9-1030 Safety Precautions moved to section 9-640. |
| 9-1100: Transportation System Details | <ul style="list-style-type: none"> ● Sec. 9-1100: This section is now Sec. 9-700. The table below shows a detailed summary of changes to the TS Details. <ul style="list-style-type: none"> ○ Details were updated and added to reflect new standards and be consistent with the Manassas 2040 Comprehensive Plan. ○ Details that were obsolete or outdated were deleted. ○ Details were renumbered as necessary. |

DCSM Article 9 Update
9-1100: Transportation System Details

| Old Detail | Title | Determination | New Detail | Title | Notes |
|-------------------|---|----------------------|-------------------|---|-------------------|
| 1.0 | Standard Legend | Revised | 1.0 | Standard Legend | |
| 1.1 | Standard Legend Continued | Revised | 1.1 | Standard Legend Continued | |
| 1.2 | Standard Legend Continued | Revised | 1.2 | Standard Legend Continued | |
| | | Added | 2.0 | Street Typology Map | |
| 3.0 | Minimum Pavement Structure Design | Revised | 3.0 | Minimum Pavement Structure Design | |
| 4.0 | Std. Typical Section for Residential Developments | Removed | 4.0 | - | |
| 4.1 | Std. Access Road for Townhouse & Condos | Removed | | - | |
| | | Added | 4.1 | Urban and Mixed-Use Street Section | |
| 4.2 | Std. Typical Section for Comm. And Industrial Developments | Removed | | - | |
| | | Added | 4.2 | Collector/Connector and Commercial Corridor | |
| 4.3 | Std. Typical Section for a 4-Lane Divided Street with Curb & Gutter | Removed | | - | |
| | | Added | 4.3 | Neighborhood Street and Connector | |
| | | Added | 4.4 | Industrial/Suburban Business Road | |
| 4.4 | Alternate Typical Access Private Road Section | Moved to 4.5 | 4.5 | Alternate Typical Section for Private Access Road | |
| | | Added | 4.6 | Geometric Design for Street Typologies | |
| | | Added | 4.7 | Bike Lane Implementation | |
| 5.0 | Typical Cul-de-Sac Design for 36' Street | Revised | 5.0 | Typical Offset Cul-De-Sac | |
| 5.1 | Typical Cul-de-Sac Design for 36' Street | Revised | 5.1 | Typical Cul-De-Sac | |
| 5.2 | Typical Cul-de-Sac Design for 44' Street | Removed | 5.2 | - | |
| 5.3 | Typical Cul-de-Sac Design for 44' Street | Removed | 5.3 | - | |
| 5.4 | Private Access Rd Turnaround Standards | Removed | 5.4 | - | See Sec. 9-340.15 |
| 6.0 | Intersection Landing Requirements | Revised | 6.0 | Intersection Landing Requirements | |
| 7.0 | Entrance Sight Distance | Revised | 7.0 | Entrance Sight Distance | |
| 8.0 | Typical Turning Lane Addition | Revised | 8.0 | Typical Right Turn Lane | |
| 9.0 | Typical Combination Curb and Gutter | Removed | | - | |
| | | Added | 9.0 | Typical Bus Turnout | |
| 10.0 | Private Driveway w/ C&G | Revised | 10.0 | Private Driveway Entrance with Curb & Gutter | |
| 10.1 | Driveway Apron Configuration | Revised | 10.1 | Driveway Apron Configuration | |
| 10.2 | Private Driveway Entrance w/ No C&G | Revised | 10.2 | Private Driveway Entrance w/ No C&G | |

Last Updated: April 21, 2022

DCSM Article 9 Update

| Old Detail | Title | Determination | New Detail | Title | Notes |
|------------|---|---------------|------------------------|---|-------|
| 10.3 | Pipe Stem Design for C&G Sections | Revised | 10.3 | Pipe Stem Design for C&G Sections | |
| 11.0 | Curb Cut Ramp Exhibit 1 | Revised | 11.0 | Curb Ramp General Notes | |
| 11.1 | Curb Cut Ramp Exhibit 2 | Revised | 11.1 | Parallel Curb Ramp Exhibit 1 | |
| | | Added | 11.2 | Parallel Curb Ramp Exhibit 2 | |
| | | Added | 11.3 | Parallel Curb Ramp Exhibit 3 | |
| 11.3 | Curb Ramps for City Sidewalks (10' Width) | Moved to 11.4 | 11.4 | Perpendicular Curb Ramps | |
| 12.0 | Disabled Parking Sign and Space | Revised | 12.0 | Disabled Parking Sign and Space | |
| 12.1 | Std for Two adjacent Parking Spaces Reserved for the Disabled | Revised | 12.1 | Std for Two adjacent Parking Spaces Reserved for the Disabled | |
| 13.0 | Asphalt Bicycle Trail and Walkway Standards | Revised | 13.0 | Asphalt Shared-Use Path | |
| 14.0 | Std Sidewalk with Underdrain | Removed | 14.0 | Standard Sidewalk | |
| 14.1 | Standard Sidewalk | Moved to 14.0 | 14.1 | - | |
| 15.0 | Pavement Restoration for Utility Cuts | Revised | 15.0 15.1 & 15.2 | Pavement Restoration for Pavement Open Cuts | |
| 16.0 | Typical Street Signs and Installation | Removed | | - | |
| | | Added | 16.0 | Crosswalk Details | |
| 16.1 | Private Road Sign Installation | Removed | | - | |
| 17.0 | Mail Box Location | Removed | | - | |
| | | Added | 17.0 | Brick Paver Sidewalk | |
| 18.0 | Road Edge Delineators | Removed | | - | |
| 18.1 | Road Edge Delineators Type 2 | Removed | | - | |
| 18.2 | Road Edge Delineators Type 3 | Removed | | - | |
| 19.0 | Traffic Barricade | Removed | | - | |
| 20.0 | Typical Lighting Plan | Removed | | - | |
| | | Added | 20.0 | Street Light Plan Manassas Downtown & Major Gateways | |
| 20.1 | Standard Parking Lot Fixture | Removed | | - | |
| 20.2 | Standard Roadway Fixture | Revised | 20.2 | Standard Roadway Fixture | |
| 20.3 | Acorn Lighting Fixture | Revised | 20.3 | Acorn Lighting Fixture (Historic District) | |
| 20.4 | Security Lighting Fixture | Removed | | - | |
| 20.5 | Photoelectric Yard Lights | Removed | | - | |
| | | Added | 20.6 | Acorn Lighting Fixture (Downtown) | |
| 21.0 | Brick Paver Crosswalks and Sidewalks | Removed | | - | |
| 22.0 | City Business district/Downtown Sidewalk | Removed | | - | |

DCSM Article 11 Update

| Section | Proposed Changes |
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| 11-700: Cast-In-Place Concrete | <ul style="list-style-type: none"> • Sec. 11-710: General criteria revised to add paragraphs for Definitions, Submittals, Excavation/Utility/Restoration Activities in the City Right-of-Way, and Quality Assurance. • Sec. 11-720: This section was revised to add paragraphs for Product Delivery, Storage, and Handling; Project Conditions; Protection for Damage and Graffiti; Portland / Hydraulic Cement Concrete; Joint Filler; Porous Backfill and Weep Holes; Portland Cement; and Reinforcement. • Sec. 11-730: This section was revised to add paragraphs on Construction of Subgrade; Coordination of Pours; Forms, Form Coating; Delivery; Damaged Concrete; Testing; Sampling, Testing, and Enforcement; Defective Work; Concrete Class; and Placement Limitations. • Sec. 11-740 Standard Concrete Curb and Combined Curb and Gutter added. • Sec. 11-750 Standard Concrete Sidewalk and Driveway Entrances added. • Sec. 11-760 Facedown Concrete Sidewalk added. • Sec. 11-770 Concrete Retaining Walls, Headwalls, Steps, Piers for Stream Crossings, Flumes and Ditches, Median Barriers, Median Strips, Islands, etc. added. |
| 11-800: Precast Concrete | <ul style="list-style-type: none"> • Sec. 11-820 Materials revised to reference VDOT <i>Road and Bridge Specifications</i> and to require City approval of precast manufacturer. |
| 11-1800: Pavement Restoration | <ul style="list-style-type: none"> • Sec. 11-1800 Pavement Restoration added with reference to Article 9 standard detail TS-15.0 for Pavement Restoration for Pavement Open Cuts. |
| 11-1900: Stamped Thermoplastic Crosswalk | <ul style="list-style-type: none"> • Sec. 11-1900 Stamped Thermoplastic Crosswalk added. |
| 11-2000: Storm Sewer | <ul style="list-style-type: none"> • Sec. 11-2000 Storm Sewer added to supplement Section 302 of VDOT <i>Road and Bridge Specifications</i> with specifications for Concrete Block for Storm Sewer. |
| 11-2100: Survey Requirements | <ul style="list-style-type: none"> • Sec. 11-2100 Survey Requirements was taken from survey specific sections of Section 2-1000 Construction Criteria. They are for Stakeout Requirements and Monuments. |
| 11-2200: Miscellaneous Construction Specifications and Requirements | <ul style="list-style-type: none"> • Sec. 11-2200 was relocated from Section 9-5110 and revised to address Hazardous Materials. |
| 11-2300: Miscellaneous Details | <ul style="list-style-type: none"> • Section 11-2300 was relocated from Section 11-1800. Missing details MS-1.0 and 2.0 were replaced. |