



September 10, 2020

Re: Document Update- Arlington County Department of Environmental Services Construction Standards & Specifications

I am pleased to release an update to the County's Construction Standards and Specifications. The Standards and Specifications update can be found on the Arlington County Website at:

<https://building.arlingtonva.us/resources/design-standards-guidelines/>

This September 2020 release is a comprehensive revision to both documents: Construction Specifications and Construction Standard Details. The most significant changes for this release are:

Specifications

- Updated Measurement and Payment sections – several Measurement and Payment sections were updated to be inclusive of necessary material and work specified within those sections.
- *Section 01300 Submittals* was removed and replaced with *Section 01310 Project Management and Coordination*, *Section 01320 Construction Progress Documentation*, *Section 01330 Submittal Procedures* and *Section 01720 Project As-Built Drawings*.
- *Section 01400 Testing* was renamed *Section 01400 Quality Requirements*.
- *Section 01500 Temporary Sediment and Erosion Control* was renamed *Section 01500 Erosion and Sediment Control and Pollution Prevention*.
- *Section 02400 Sheeting Shoring and Bracing* was renamed *Section 02400 Protection of Excavation*.
- *Section 02580 Electrical Underground Ducts* and *Section 02581 Communication Underground Ducts* were added.
- *Section 02619 Permanent Signs* was added.
- *Section 02952 Trenchless Crossing* was added to replace *Section 02950 Tunneling* and *Section 02951 Boring and Jacking*
- Sections *311300 Tree Protection and Root Pruning*, *329100 Planting Preparation*, *329200 Seeding and Sodding*, and *329300 Exterior Plants* were added to replace *Section 02800 Landscaping*.
- A detailed list of updates can be found in Appendix A- Summary of Changes- Construction Specifications.

Standard Details

- Details M-6.0 and M-6.1- The Pavement Restoration Limits were updated.
- Details R-1.0 through R-1.4- Only Detail R-1.1 and R-1.4 remain. The contents from Details R-1.0, R-1.2, and R-1.3 were moved to the Construction Specifications or consolidated into Details R-1.1 and R-1.4.
- Detail R-2.0- Several new standard curb sections were added.
- Details R-2.10- Bus Shelter Pad and Detail R-2.11 Bus Stop Pad were added.
- Detail D-1.1 was removed and the contents were placed within the Construction Specifications or consolidated into other Details.
- Details D-1.2 through D-1.10- The catch basin top slab thickness was increased to 6".
- Detail D-1.3- The support beam detail was removed and replaced with Detail D-2.2 depicting Cheek Block supports.

- Detail S-2.3- Sanitary Sewer Manhole with Outside Drop was updated to an Inside Drop.
- Details W-8.1 through W-9.6- The limits of ownership were updated.
- A detailed list of updates can be found in Appendix B- Summary of Changes- Construction Standards.

In addition to the specific modifications noted above, all of the released sections have been modified from the 2013 version of the County's Standards and Specifications. These revised Specifications do not represent any drastic shift in the County's requirements or provisions but are hopefully more condensed and easier to interpret than earlier versions.

A handwritten signature in black ink, appearing to read "RAM Awwad". The signature is written in a cursive style with a large, stylized initial "RAM".

Ramzi Awwad,
Engineering Bureau Chief

ARLINGTON COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS

These revised Specifications do not represent any drastic shift in the County's requirements or provisions. Significant changes in document organization and/or text clarifying requirements are noted in the *Change* and *Note of Significant Change* columns below.

SUMMARY OF CHANGES - SPECIFICATIONS

SECTION	SPECIFICATION NAME 2020	CHANGE	NOTE OF SIGNIFICANT CHANGE
GENERAL REQUIREMENTS			
00001	Title Page	New	
00010	Table of Contents	Updated	
01000	General Provisions and Requirements	Updated	Content reflects DES General Conditions as of publication.
01300	Submittals	Removed	<i>Substitution requirements and process have been added to Section 01330; testing is updated in 01400; scheduling is updated in 01320; submittal schedule is updated in 01330; samples updated in 01330</i>
01310	Project Management and Coordination	New	
01320	Construction Progress Documentation	New	
01330	Submittal Procedures	New	
01400	Quality Requirements	Renamed	Formerly Testing
01500	Erosion and Sediment Control and Pollution Prevention	Updated, Renamed	Formerly Temporary Sediment and Erosion Control; Payment will be Lump Sum and paid in percentage-based installments.
01550	Mobilization	New	
01720	Project As-Built Drawings	New	

SITE WORK

02100	Clearing and Grubbing	Updated	
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SECTION	SPECIFICATION NAME 2020	CHANGE	NOTE OF SIGNIFICANT CHANGE
02200	Earthwork	Updated	
02202	Rock Excavation	Updated	
02210	Riprap	Updated	
02211	Gabions	Removed	<i>Seldomly used</i>
02300	Pile Foundations - Timbers	Removed	<i>Seldomly used</i>
02350	Cofferdams	Removed	<i>Seldomly used</i>
02400	Protection of Exca- vation	Renamed	Formerly Sheeting Shoring and Bracing
02500	Gravity Sewers and Appurtenances	Updated	Payment for PVC connections and Cleanouts incidental to the work.
02505	Storm Sewers and Appurtenances	Updated	
02510	Sanitary Sewers and Appurtenances	Updated	
02515	Televised Inspec- tion of Sewers		
02550	Water Mains and Appurtenances	Updated	Clarifications RE meter sizes and installed facility ownership
02580	Electrical Under- ground Ducts	New	
02581	Communication Underground Ducts	New	
02600	Bituminous Road- way Pavements	Updated	
02601	Bituminous Hiking Biking and Jogging Trails	Updated	
02611	Concrete Walks and Concrete Driveway Entrance	Updated	
02612	Interlocking Con- crete and Brick Pavers	Updated	
02613	Paver Crosswalk	Renamed	Formerly Paver Crossing
02619	Permanent Signs	New	
02650	Restoration of Roadway	Updated	(New requirements for Temporary Restora- tion)
02750	Curb and Gutters	Updated	
02780	Permeable Unit Pavers	New	

SECTION	SPECIFICATION NAME 2020	CHANGE	NOTE OF SIGNIFICANT CHANGE
02795	Pervious Concrete Pavement	New	
<i>02800</i>	<i>Landscaping</i>	<i>Removed</i>	<i>Covered under specification under Exterior Improvements</i>
02801	Seeding and Sodding	Renumbered	Covered under Specification 329200
02840	Vehicle Delineators	New	
02870	Bicycle Racks	New	
02900	Pavement Markings	New	
<i>02950</i>	<i>Tunneling</i>	<i>Removed</i>	<i>Pertinent contents covered under section 02952</i>
<i>02951</i>	<i>Boring and Jacking</i>	<i>Removed</i>	<i>Pertinent contents covered under section 02952</i>
02952	Trenchless Crossing	New	Specification covers requirements for all trenchless excavation methods

CONCRETE

	Concrete Formwork Reinforcement and Materials		
03100			
03400	Precast Concrete	Updated	

MASONRY

04100	Mortar and Grout		
04200	Masonry Units		
04300	Stone and Mortared Rubble Masonry		

METALS

05500	Structural Steel and Miscellaneous Metal		
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WOODS AND PLASTICS

06100	Structural Timber and Lumber		
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THERMAL AND MOISTURE PROTECTON

07100	Waterproofing	Updated	
07150	Dampproofing	Updated	

SPECIFICATION			
SECTION	NAME 2020	CHANGE	NOTE OF SIGNIFICANT CHANGE
FINISHING			
<i>09010</i>	<i>Painting of Structural Steel</i>	<i>Removed</i>	<i>Infrequently used</i>
09800	Wood Preservatives		
09900	Protective Coating		
SPECIALTIES			
10530	Bus Shelters	Renumbered	Formerly 13130. Moved to allow for independent 13000 Section
SPECIAL CONSTRUCTION			
EXTERIOR IMPROVEMENTS			
311300	Tree Protection and Root Pruning	New	
329100	Planting Preparation	New	
329200	Seeding and Sodding	New	
329300	Exterior Plants	New	

END OF SUMMARY OF CHANGES - SPECIFICATIONS

ARLINGTON COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS- STANDARD DETAILS

These revised details do not represent any drastic shift in the County's requirements or provisions. Significant changes in document organization and/or new details clarifying requirements are noted in the *Change* and *Note of Significant Change* columns below.

SUMMARY OF CHANGES- STANDARD DETAILS

DETAIL NUMBER	DETAIL NAME	CHANGE	NOTE OF SIGNIFICANT CHANGE
M-1.0	Standard Legend	Removed	<i>Provided in the Arlington DES CADD Standards and Guidelines</i>
M-1.1	Standard Legend – Cont'd	Removed	<i>Provided in the Arlington DES CADD Standards and Guidelines</i>
M-1.2	Standard Legend – Cont'd	Removed	<i>Provided in the Arlington DES CADD Standards and Guidelines</i>
M-1.3	Standard Legend – Cont'd	Removed	<i>Provided in the Arlington DES CADD Standards and Guidelines</i>
M-1.4	Standard Legend – Cont'd	Removed	<i>Provided in the Arlington DES CADD Standards and Guidelines</i>
M-1.5	Standard Legend – Cont'd	Removed	<i>Provided in the Arlington DES CADD Standards and Guidelines</i>
M-1.6	Standard Legend – Cont'd	Removed	<i>Provided in the Arlington DES CADD Standards and Guidelines</i>
M-2.0	Standard Manhole Steps		
M-3.0	Pipe Bedding Details for Trench Conditions		
M-4.0	Jacking & Boring Details		
M-5.0	Tunneling Details		
M-6.0	Standard Pavement Patching for Utility Cuts	Updated	Restoration Limits and Notes
M-6.1	Modified Pavement Patching for Cuts on Newly Paved Street	Updated	Restoration Limits and Notes
M-7.0	Concrete Pier and Reinforced Concrete Cradle Details for Utility Crossing		
M-8.0	Typical Road Cross Section Cable & Riser Shield Installation on Poles		
M-8.1	Typical Road Cross Section Cable & Riser Shield Installation on Poles		

SUMMARY OF CHANGES - STANDARD DETAILS

DETAIL NUMBER	DETAIL NAME	CHANGE	NOTE OF SIGNIFICANT CHANGE
R-1.0	General Notes for Roadway	Removed	Notes provided in DES Standard Specifications
R-1.1	Typical Section – Local Residential Streets	Updated	Updated Materials, Updated Notes.
R-1.2	<i>Typical Section – One Half Local Residential Street Construction</i>	<i>Removed</i>	<i>Combined with R-1.1</i>
R-1.3	<i>Typical Section – Neighborhood Collectors and Undivided Thoroughfares</i>	<i>Removed</i>	<i>Combined with R-1.1</i>
R-1.4	Typical Section – Divided Thoroughfares	Updated	Updated media details and Notes
R-2.0	Concrete Curb & Gutter and Sidewalk	Updated	Transit station curb added
R-2.1	Interlocking Concrete and Brick Pavers for Sidewalk Application	Updated	Updated Notes
R-2.2	Sidewalk Stress Columns		
R-2.3	<i>Driveway Entrance Placement</i>	<i>Removed</i>	<i>Included as a Horizontal Standard</i>
R-2.4A	A Concrete Driveway Entrance (Standard)		
R-2.4B	B Concrete Driveway Entrance (Depressed)		
R-2.4C	C Concrete Driveway Entrance (Mountable Curb)		
R-2.4D	D Combination Driveway Entrance/Curb Ramp		
R-2.5	Curb Cut Ramp	Updated	Updated Notes
R-2.6	Paver Crosswalks		
R-2.7	Mountable Curb Detail at Traffic Circle		
R-2.8	Flat Top Profile Speed Hump		
R-2.9	Concrete Valley Gutter		
R-2.10	Bus Shelter Pad	New	
R-2.11	Bus Stop Pad	New	
R-3.0	Concrete Steps on 2:1 Slope		
R-3.1	Pipe Handrail		
R-3.2	Ornamental Handrail		
R-3.3	Trail Railing	Updated	Updated Design and Notes
R-4.0	Mortar Rubble Retaining Wall Level Backfill	Updated	Updated Notes

SUMMARY OF CHANGES - STANDARD DETAILS

DETAIL NUMBER	DETAIL NAME	CHANGE	NOTE OF SIGNIFICANT CHANGE
R-4.1	Mortar Rubble Retaining Wall with Concrete Base, Level Backfill	Updated	Updated Notes
R-4.2	Mortar Rubble Retaining Wall with Infinite Surcharge or Deck Surcharge		
R-4.3	Mortar Rubble Retaining Wall with Concrete Base and Infinite Surcharge or Deck Surcharge	Updated	Updated Notes
R-5.0	Utility Pole Location		
R-6.0	Hiking – Biking – Jogging Trail Details Removable Post Barrier	Updated	Updated Materials and Notes
R-6.1	Typical Section – Hiking – Biking – Jogging Trail	Updated	Updated Callouts and Notes
R-7.0	Continuous Soil Panel		
R-8.0	<i>Bike Rack</i>	<i>Removed</i>	<i>Consolidated with R-8.1</i>
R-8.1	Bike Rack Layout	Renumbered	Renumbered to R-8.2
R-8.3	Bicycle Rack Installation	New	
D-1.1	<i>General Notes for Catch Basins</i>	<i>Removed</i>	<i>Notes Included either in the DES Construction Specifications or as Notes on the Details.</i>
D-1.2	Standard Catch Basin, CB-2	Updated	Slab thickness increased to 6”.
D-1.3	Catch Basins with Extended Throats for Sags, CB-2A	Updated	Slab thickness increased to 6”. Detail for Support Bars removed
D-1.4	Catch Basin with Extended Throats for Slopes, CB-2B	Updated	Slab thickness increased to 6”
D-1.5	Precast Catch Basin, PCB-2		
D-1.6	Details for Precast Catch Basin, PCB-2		
D-1.7	<i>Catch Basin with Grate Top, CB-3</i>	<i>Removed</i>	<i>Covered by VDOT detail</i>
D-1.8	Catch Basin with Double Throat, CB-4	Updated	Slab thickness increased to 6”
D-1.9	Non Roadway Shallow Grate Inlet 15” to 24” Pipe Maximum	Updated	Updated Notes
D-1.10	Yard Inlet	Updated	Slab thickness increased to 6”
D-1.11	Precast Yard Inlet		
D-1.12	Driveway Grate	Updated	Table removed. Updated Notes

SUMMARY OF CHANGES - STANDARD DETAILS

DETAIL NUMBER	DETAIL NAME	CHANGE	NOTE OF SIGNIFICANT CHANGE
D-1.13	Catch Basin Frame and Cover		
D-2.0	Manhole and Catch Basin Block		
D-2.1	Method for Shaping Manhole and Basin Inverts		
D-2.2	Cheek Block	New	Replaces Support Detail
D-3.0	Storm Sewer Manhole, MH-1 for Pipe Sizes 15” through 36”		
D-3.1	Storm Sewer Precast Manhole, PMH-1 for Pipe Sizes 15” through 36”		
D-3.2	<i>Storm Sewer Manhole, MH-1 with Standard CB-3 Grate Cover</i>	<i>Removed</i>	<i>Covered by VDOT Detail</i>
D-3.3	Storm Sewer Manhole, MH-2 for Pipe Sizes 42” through 54”		
D-3.4	Storm Sewer Manhole, MH-3 for Pipe Size Greater than 54”		
D-3.5	Storm Sewer Manhole, MH-4 for Pipe Sizes Greater than 24” and Alignment Greater than 30” Changes		
D-3.6	Manhole Frame and Cover	Updated	Updated Notes
D-4.0	Gabion Revetment	Updated	Updated Notes
D-5.0	Sump Pump Connection to Main	New	
S-2.0	Manhole Precast Concrete 4’-0” I.D.		
S-2.1	Manhole Precast Concrete 5’-0” & 6’-0” I.D.	Updated	
S-2.2	Manhole Construct Over Existing Sewer		
S-2.3	Sanitary Sewer Manhole with Outside Drop Connection	Updated	Title change to: Sanitary Sewer Manhole with Interior Drop Connection.
S-2.4	Manholes Channel and Foundations	Updated	Updated Notes
S-2.5	Manholes Adjustments to New Grades		
S-3.0	Manhole Frame and Cover 24-Inch Diameter (MHC-1)		

SUMMARY OF CHANGES - STANDARD DETAILS

DETAIL NUMBER	DETAIL NAME	CHANGE	NOTE OF SIGNIFICANT CHANGE
S-3.1	Manhole Frame and Cover 24-Inch Bolted (MHC-2)		
S-3.2	Manhole Frame and Cover 36-Inch Bolted (MHC-3)		
S-4.0	PVC Sewer Pipe Installation Detail	Updated	Updated Notes
S-5.0	Maximum Allowable Backfill for Sanitary Sewers		
S-6.0	Manhole Protection Detail		
W-2.0	Concrete Thrust Blocks for Horizontal Bends		
W-2.1	Concrete Thrust Clocks for Tees and Caps		
W-2.2	Concrete Thrust Blocks for Lower Vertical Bends		
W-2.3	Concrete Thrust Block Upper Vertical Bends		
W-2.4	Concrete Thrust Blocks Inserting Valves		
W-3.0	Restrained Joint Detail		
W-4.0	Blowoff Details		
W-5.0	Gate Valve Setting		
W-6.0	Air Release Valve		
W-6.1	Air and Vacuum Valve		
W-7.0	Fire Hydrant Setting		
W-8.0	Water Service Connections 2-Inch and Smaller		
W-8.1	Water Service Connections 3-Inch and 4-Inch	Updated	Updated limits of ownership and Valve types
W-8.2	Water Service Connections 6-Inch and 8-Inch	Updated	Updated limits of ownership and Valve types
W-8.3	Utility Vault Precast Reinforced Concrete		
W-9.0	Water Meter Installation ¾-Inch and 1-Inch Service		
W-9.1	Water Meter Installation 1 ½-Inch Service		
W-9.2	Water Meter Installation 2-Inch Service		
W-9.3	Water Meter Installation 3-Inch Service	Updated	Updated limits of ownership and Valve types
W-9.4	Water Meter Installation 4-Inch Service	Updated	Updated limits of ownership and Valve types
W-9.5	Water Meter Installation 6-Inch Service	Updated	Updated limits of ownership and Valve types

SUMMARY OF CHANGES - STANDARD DETAILS

DETAIL NUMBER	DETAIL NAME	CHANGE	NOTE OF SIGNIFICANT CHANGE
W-9.6	Water Meter Installation 8-Inch Service	Updated	Updated limits of ownership and Valve types
W-9.7	22"x28" Frame and Cover for 24" I.D. Water Meter Box		
W-9.8	24"x40" Frame and Cover for 36" I.D. Water Meter Box		
W-9.9	36"x54" Frame and Cover for Concrete Water Meter Vault		
W-10.0	Water Meter Fact Sheet	Updated	

END OF SUMMARY OF CHANGES- STANDARD DETAILS