

**TABLE OF CONTENTS**

<b>8-0100</b>	<b>SIDEWALKS.....</b>	<b>5</b>
8-0101	General Information ( <del>90-05-PFM</del> ).....	5
8-0102	Subdivisions Containing Lots Averaging Less than 25,001 square feet .....	7
8-0103	Subdivisions Containing Lots Averaging 25,001 square feet up to 52,000 square feet .....	7
8-0104	Subdivisions Containing Lots Averaging 52,000 square feet or Greater .....	7
8-0105	Subdivisions in Proximity of Elementary, Intermediate and High Schools .....	7
<b>8-0200</b>	<b>TRAILS .....</b>	<b>9</b>
8-0201	General Information .....	9
8-0202	Standards and Criteria.....	10
8-0203	Trails on Land Owned and Managed by FCPA.....	15
<b>8-0300</b>	<b>RECREATION .....</b>	<b>18</b>
8-0301	Metal Bridge .....	18
8-0302	Typical Bench.....	18
8-0303	Typical Backless Bench.....	18
8-0304	Typical Grill.....	18
8-0305	Typical Picnic Table .....	19
8-0306	Typical Wheelchair-Accessible Picnic Table.....	20
<u>8-0307</u>	<u>Tot Lots .....</u>	<u>20</u>

**LIST OF TABLES**

Table 8.1	Trail Surface And Width ( <del>90-05-PFM</del> ) .....	<b>11</b>
Table 8.2	Minimum Trail Easement Widths ( <del>90-05-PFM</del> ) .....	<b>12</b>
Table 8.3	Maximum Allowable Trail Grades .....	<b>13</b>
Table 8.4	Maintenance and Operation Jurisdiction of Proposed and Existing Trails <sup>1</sup> .....	<b>17</b>

8-0000 SIDEWALKS, TRAILS, AND RECREATION

**LIST OF PLATES**

STANDARD DESIGNATION	PLATE NO.	DESCRIPTION	SECTION
UD-3	1-8	Deleted with 90-05 PFM	
CW-1	2-8	Deleted with 90-05 PFM	
CCR-2	3-8	Deleted with 90-05 PFM	
N/A	4-8 <u>1-8</u>	Trail Cross-Sections	8-0202, <u>8-0203</u>
N/A	5-8 <u>2-8</u>	Trail Cross-Sections	8-0202, <u>8-0203</u>
N/A	6-8 <u>3-8</u>	Trail Cross-Sections	8-0202, <u>8-0203</u>
N/A	7-8 <u>4-8</u>	Trail Clearing	8-0202, <u>8-0203</u>
N/A	8-8 <u>5-8</u>	2-Way Bike Path in Off-Street Location	8-0202, <u>8-0203</u>
N/A	9-8 <u>6-8</u>	Trail Access Through Barricade	8-0202, <u>8-0203</u>
N/A	10-8 <u>7-8</u>	Cable Barricade - Elevation	8-0202, <u>8-0203</u>
N/A	11-8 <u>8-8</u>	Red Reflector on Cable	8-0202, <u>8-0203</u>
N/A	12-8 <u>9-8</u>	Bollard	8-0202, <u>8-0203</u>
N/A	13-8 <u>10-8</u>	Bollard – Direct Bury	8-0202, <u>8-0203</u>
N/A	14-8 <u>11-8</u>	Removable Locking Bollard	8-0202, <u>8-0203</u>
N/A	15-8 <u>12-8</u>	Post-Sleeve Connection	8-0202, <u>8-0203</u>
N/A	16-8 <u>13-8</u>	Fair Weather Stream Crossing	8-0202, <u>8-0203</u>
N/A	17-8 <u>14-8</u>	Fair Weather Stream Crossing	8-0202, <u>8-0203</u>
HR-2	17A-8 <u>14A-8</u>	Handrail Detail	8-0202, <u>8-0203</u>
N/A	18-8 <u>15-8</u>	Tot Lot Equipment Layout	<u>2-1104</u> 8-0300
N/A	19-8 <u>16-8</u>	Tot Swinging Devices Layout	<u>2-1104</u> 8-0300
PA-5	20-8 <u>17-8</u>	Little League Infield	<u>2-1104</u> 8-0300

8-0000 SIDEWALKS, TRAILS, AND RECREATION

<b>STANDARD DESIGNATION</b>	<b>PLATE NO.</b>	<b>DESCRIPTION</b>	<b>SECTION</b>
PA-6	<u>21-8 18-8</u>	Baseball and Babe Ruth Infield	<u>2-1104</u> <u>8-0300</u>
PA-7	<u>22-8 19-8</u>	Fast Pitch & Slow Pitch Softball Infield	<u>2-1104</u> <u>8-0300</u>
PA-8	<u>23-8 20-8</u>	Ballfields Design Information	<u>2-1104</u> <u>8-0300</u>
PA-9	<u>24-8 21-8</u>	Bleacher Pad Plan	<u>2-1104</u> <u>8-0300</u>
PA-10	<u>25-8 22-8</u>	Backstop Plan and Elevation	<u>2-1104</u> <u>8-0300</u>
PA-11	<u>26-8 23-8</u>	Backstop Post and Footing	<u>2-1104</u> <u>8-0300</u>
PA-12	<u>27-8 24-8</u>	6' Fence, Concrete Pad, Sideline Fence and Gate	<u>2-1104</u> <u>8-0300</u>
PA-13	<u>28-8 25-8</u>	Outfield Fence	<u>2-1104</u> <u>8-0300</u>
PA-14	<u>29-8 26-8</u>	Warning Track and Mow Strip Sections	<u>2-1104</u> <u>8-0300</u>
PA-15	<u>30-8 27-8</u>	Tennis Court Layout	<u>2-1104</u> <u>8-0300</u>
PA-16	<u>31-8 28-8</u>	Tennis Court Net and Cross-Section Details	<u>2-1104</u> <u>8-0300</u>
PA-17	<u>32-8 29-8</u>	Fence Post	<u>2-1104</u> <u>8-0300</u>
PA-18	<u>33-8 30-8</u>	Court Paving Detail	<u>2-1104</u> <u>8-0300</u>
N/A	<u>34-8 31-8</u>	Tennis Practice Court Layout	<u>2-1104</u> <u>8-0300</u>
PA-20	<u>35-8 32-8</u>	Tennis Practice Wall	<u>2-1104</u> <u>8-0300</u>
N/A	<u>36-8 33-8</u>	Elevation – Tennis Court Practice Wall	<u>2-1104</u> <u>8-0300</u>
N/A	<u>37-8 34-8</u>	Tennis Practice Wall Attachment	<u>2-1104</u> <u>8-0300</u>
N/A	<u>38-8 35-8</u>	Tennis Practice Wall Attachment	<u>2-1104</u> <u>8-0300</u>
N/A	<u>39-8 36-8</u>	Top of Practice Wall Fence Post	<u>2-1104</u> <u>8-0300</u>
N/A	<u>40-8 37-8</u>	Tennis Practice Court – Design Information	<u>2-1104</u> <u>8-0300</u>

8-0000 SIDEWALKS, TRAILS, AND RECREATION

<b>STANDARD DESIGNATION</b>	<b>PLATE NO.</b>	<b>DESCRIPTION</b>	<b>SECTION</b>
N/A	41-8 <u>38-8</u>	Courts – Design Information	<u>2-1104</u> <del>8-0300</del>
N/A	42-8 <u>39-8</u>	Multi-Use Court Plan	<u>2-1104</u> <del>8-0300</del>
PA-26	43-8 <u>40-8</u>	Basketball Backstop	<u>2-1104</u> <del>8-0300</del>
PA-27	44-8 <u>41-8</u>	Soccer – Design Information	<u>2-1104</u> <del>8-0300</del>

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**8-0100 SIDEWALKS****8-0101 General Information** (~~90-05-PFM~~)

- 8-0101.1 Sidewalks ~~shall~~ must be provided as required by [§ 101-2-2 of the Subdivision Ordinance](#) and [§ 17-201 of the Zoning Ordinance](#). Further, sidewalks ~~shall~~ must be designed and constructed in accordance with the PFM, the [Americans with Disabilities Act Accessibility Guidelines \(ADAAG\)](#) and the [Virginia USBC](#).
- 8-0101.2 Sidewalks accepted by [VDOT](#) as part of the subdivision streets ~~shall~~ must be constructed in accordance with [VDOT](#) criteria and standards and be located fully within the dedicated right-of-way of the street.
- 8-0101.3 Wherever possible, connection ~~shall~~ must be made to any adjacent sidewalks, trails and walkways which exist or are shown in the [Comprehensive Plan](#) and to a public street.
- 8-0101.4 In lieu of the required construction of a sidewalk, an alternative trail may be constructed as approved by the Director. The alternative trail ~~shall~~ must be ~~generally~~ located parallel to the existing or proposed roadway and be located fully within the dedicated right-of-way of the street (see [§ 7-0406.14F](#) and [§ 8-0202.2A](#)).
- 8-0101.5 (~~121-15-PFM~~) Upon proper justification provided on the plan, a developer will be relieved of the requirement to construct a sidewalk pursuant to [§ 8-0101.1](#) under the following conditions, unless the construction of such sidewalk is otherwise necessary based on county or federal requirements:
- A. ~~A~~ a sidewalk meeting current PFM standards and specifications exists at the time of plan submission, or
  - B. ~~W~~ When it can be demonstrated on the plan that construction of a trail in lieu of the sidewalk ~~shall~~ meets the requirements of [§ 8-0200](#).
    1. In such cases of relief, the developer ~~need not provide~~ is relinquished from providing an escrow but still must provide ~~not~~ the easement or right-of-way necessary for any future construction of ~~same~~ the sidewalk pursuant to [§ 7-0105](#).
- 8-0101.6 (~~121-15-PFM~~) The Director, following consultation with the member of the [Board of Supervisors](#) ~~member~~ for the relevant magisterial district, may approve a modification or waiver of sidewalk construction required under [§ 8-0101.1](#) where strict application of the requirement would be unreasonable or would otherwise cause a technical hardship. “Technical hardship” as applied in this section ~~shall~~ relates to technical implementation issues rather than financial hardship as may be

8-0000 SIDEWALKS, TRAILS, AND RECREATION

experienced by the developer. In considering a modification or waiver request, the Director may consider factors such as, but not limited to the following:

a.

A. ~~e~~ Existing conditions such as right-of-way constraints, significant topographic challenges, environmental designations (such as RPA), and impacts upon registered historical properties, ~~for example~~;

b.

B. ~~i~~ Interim conditions and phasing of project construction;

c.

C. ~~s~~ Street conditions such as the availability of parking, traffic volume, and speed limit;

d.

D. ~~e~~ Compatibility of pedestrian connections to adjacent and neighboring uses;

e.

E. ~~e~~ Connectivity and distance to a school, community facility (e.g., library, recreation center, park), neighborhood retail, and transit stops and stations; and

f.

F. ~~o~~ Other situations where the Director determines that the developer has justified good cause to support a modification or waiver.

8-0101.6A

1. The Director may impose conditions to any modification or waiver in order to assure that the results will be in accordance with the purpose and intent of [§ 8-0100](#).

8-0101.6B

2. Any developer seeking a modification or waiver to delay sidewalk construction ~~shall~~ must provide an escrow for future construction based on the current unit price schedule.

8-0101.7

When a sidewalk is designed, it ~~shall~~ must be at least 5 feet wide to allow pedestrian passing, or include passing areas 5 feet x 5 feet at ~~reasonable~~ intervals not to exceed 200 feet (sidewalks less than 5 feet in width may be approved by the Director with a formal waiver submission). The passage along or within a sidewalk ~~shall~~ must be clear of obstructions underfoot, overhead, or in between. ~~Sidewalks less than 5 feet in width shall be approved by the Director without a formal waiver submission.~~ In no case ~~shall~~ may a sidewalk be less than ~~3~~ 4 feet wide in the [VDOT](#) right-of-way.

8-0101.8

A curb cut ramp is required to provide access to and from sidewalks, at each direction of crossing, at intersections.

8-0101.9

Where required, sidewalk underdrains ~~shall~~ must be used for all walkways, which are to be maintained by a public agency or a homeowners' association, in accordance with [VDOT](#) standards. Compaction tests on natural subgrade must be

## 8-0000 SIDEWALKS, TRAILS, AND RECREATION

made and approved after the subgrade has been shaped and ~~prior to~~ before the placing of sidewalks.

- 8-0101.10 When the street section has been rough graded and CBR tests are made for street pavement design, sieve and PI analysis will be included with the CBR tests. If these tests indicate that underdrains are required, additional classification tests will be made of the sidewalk subgrade to determine if sidewalk underdrains are required. These tests will be made at all changes of subgrade material and not more than 500 feet apart. Plan revisions based on these tests will then be prepared by the design consultant and submitted to the Director for review and approval. This revision will include a section of UD-3 underdrain.
- 8-0101.11 If the sidewalk is to be maintained by Fairfax County or a homeowners' association, a minimum of 4 inches of VDOT 21-A, or equivalent stone, ~~shall~~ must be placed and compacted on a stable subgrade ~~prior to~~ before pouring the concrete.
- 8-0102 Subdivisions Containing Lots Averaging Less than 25,001 square feet:** (~~100-07 PFM, 90-05 PFM~~) A sidewalk ~~shall~~ must be constructed on both sides of all streets in these subdivisions, including all reverse or side frontage lots and open space. When the peripheral boundary of the subdivision is contiguous to an existing or planned street, a sidewalk ~~shall~~ must be constructed on the side of the street abutting the subdivision boundary (see [§ 8-0105](#)).
- 8-0103 Subdivisions Containing Lots Averaging 25,001 square feet up to 52,000 square feet:** (~~100-07 PFM, 90-05 PFM~~) Sidewalks ~~shall~~ must be constructed on one side of all streets in these subdivisions, including all reverse or side frontage lots and open space. When the peripheral boundary of the subdivision is contiguous to an existing or planned street, a sidewalk ~~shall~~ must be constructed on the side of the street abutting the subdivision boundary (see [§ 8-0105](#)).
- 8-0104 Subdivisions Containing Lots Averaging 52,000 square feet or Greater:** (~~90-05 PFM~~) Sidewalks ~~shall~~ must be constructed on one side of all streets in these subdivisions, including all reverse or side frontage lots and open space and on all streets of the subdivision boundary when the subdivision is located in proximity to schools in accordance with [§ 8-0105](#).
- 8-0105 Subdivisions in Proximity of Elementary, Intermediate and High Schools:** (~~100-07 PFM, 90-05 PFM~~) A sidewalk ~~shall~~ must be constructed on all streets of the subdivision boundary, on the side of the street abutting the subdivision boundary, including all reverse or side frontage lots and open space, where a subdivision is within 1 mile of an elementary school and/or 1.5 miles of an intermediate or high school and the peripheral boundary of the subdivision is contiguous to an existing or planned street. This criteria ~~shall~~ must also apply to streets in the vicinity of

8-0000 SIDEWALKS, TRAILS, AND RECREATION

proposed schools, the construction of which is included in the County's Capital Improvement Program ~~capital improvement program~~.

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**8-0200 TRAILS****8-0201 General Information**

- 8-0201.1 The [Countywide Trails Plan](#) depicts the general location of proposed public trails along roadways, streams, and utility easements, ~~for nonmotorist users only.~~ This group includes pedestrians, bicyclists and equestrians. Development of the ~~Countywide Trails Plan began in 1970, when the Board directed the Community Services Coordinator to develop a report on a trails system. In 1973, task forces were formed in each magisterial district to create a trails plan.~~ The [Countywide Trails Plan](#) was adopted in 1976 by the [Board](#) as part of the [Comprehensive Plan of Fairfax County](#) adopted under the provisions of [Title 15.2-1, Chapter 11, Va. Code](#), as amended. It is periodically amended.
- 8-0201.2 The [Countywide Trails Plan](#) is implemented primarily through the rezoning, subdivision plan and site plan review process; the [Capital Improvements Program](#); the [FCPA](#) stream valley development process; and occasionally through private community efforts.
- 8-0201.3 Trails shown on the [Countywide Trails Plan](#) ~~shall~~ must be constructed by the developer where these trails abut or cross property to be developed or improved. Construction of these countywide trails ~~shall~~ must occur in conjunction with development as required by the standards and criteria set forth in [§ 8-0202 et seq.](#) and as required by the following documents other County regulations and Stream Valley policies:
- ~~Fairfax County Zoning Ordinance  
Code of the County of Fairfax  
Fairfax County Stream Valley Policy  
Fairfax County Comprehensive Plan~~
- A. The final location of trails ~~shall be~~ is approved by the Director after review by the ~~County Trails Planner~~ [FCDOT](#) and/or [FCPA](#) and other reviewing staff as applicable.
- 8-0201.4 In lieu of the required construction of trails shown on the [Countywide Trails Plan](#), an alternate trail or access facility (such as a road) may be approved by the Director upon favorable recommendation from ~~the County~~ [FCDOT](#) and/or [FCPA](#) ~~Trails Planner~~. Alternate facilities should be adjacent or roughly parallel to the street or stream designated on the [Countywide Trails Plan](#). The design and location of alternate facilities should provide equal or better access than the planned trail. A public access easement to the [Board](#) or [FCPA](#), as appropriate, is required where these alternate facilities cross privately owned land or coincide with private access facilities. This will

8-0000 SIDEWALKS, TRAILS, AND RECREATION

ensure that alternate trails or access facilities become part of the Countywide Trails System.

8-0201.5 As part of the requirements of the [Countywide Trails Plan](#), developers may be required to construct trail segments to link developments to ~~Countywide~~ trails or to private community trails, recreation areas and facilities. Such access may be deemed to improve circulation and access. ~~The County Trails Planner~~ [FCDOT](#) and/or [FCPA](#) and other reviewing staff shall determine the trail type, surface and width in accordance with current standards and anticipated use.

8-0201.6 When countywide trails are to be constructed, maintenance and operation jurisdiction shall must be determined during the site/subdivision plan approval process and depicted on the plan. Public access/trail easements shall must be conveyed to the [Board](#), [FCPA](#) or the [Northern Virginia Regional Park Authority](#), as deemed appropriate by the Director. The easement width and jurisdiction shall must be clearly indicated on the site plan and recorded in the County land records. [Table 8.4](#) describes the maintenance and operation jurisdiction of proposed and existing trails.

**8-0202 Standards and Criteria:** ~~(90-05-PM)~~ In order to plan and construct trails in a consistent, usable and orderly fashion, it is necessary to establish basic standards and criteria. The standards and criteria in [§ 8-0202 et seq.](#) shall must be used in the design and review of ~~Countywide~~ trails, development, site and subdivision plans. Trails accepted for [VDOT](#) maintenance shall must be constructed in accordance with [VDOT](#) criteria and standards and be located fully within the dedicated right-of-way.

8-0202.1 Trails Use

~~8-0202.1A~~

A. ~~(90-05-PFM)~~ Trail type, width and surface shall must be approved by the Director after recommendation from ~~the County Trails Planner~~ [FCDOT](#) and/or [FCPA](#), ~~the Department of Transportation~~, and other reviewing staff, and shall must be primarily based on site conditions and expected usage.

~~8-0202.1B~~

B. ~~(90-05-PFM)~~ Generally, 6 feet is the minimum trail width allowed. Trails less than 6 feet wide require special approval by ~~the County Trails Planner~~ [FCDOT](#) and/or [FCPA](#), ~~DPWES~~ [LDS](#), or other County agencies as applicable. Asphalt trails/shared-use paths located within the [VDOT](#) right-of-way and accepted for [VDOT](#) maintenance should be a minimum of 10 feet wide with a minimum clear zone of 3 feet. Trail types shall must conform to the minimum criteria outlined in [Table 8.1](#) and the trail cross-sections in [Plates 1-8 to 14-8](#) ~~4-8 to 17-8~~.

**Table 8.1 Trail Surface And Width (90-05 PFM)**

Trail Use	Trail Surface and Width
Bikeways	8-ft. wide Type I trail (suitable for 2-way bike travel where low to moderate use is anticipated).
Walkways	Asphalt 6-ft. wide Type I trail (suitable for pedestrian uses in most areas).
Equestrian/ Hiking Trails	Concrete 5-6 ft. wide Type IV trail (standard concrete sidewalk; not suitable for biking. Wider widths desirable in heavily traveled areas such as metro areas and shopping centers).
	Compacted stone and bluestone dust or wood chips 6 ft. wide. Type II, VI, and VII (suitable for horse riding, hiking or use by all-terrain bicycles in low-density areas. Earth surfaced trails require special consideration and approval by the Director, Trails Planner and other reviewing staff).

Trails exceeding the above-specified minimum widths may be constructed subject to the approval of the Director upon favorable recommendation by the County Trails Planner [FCDOT](#) and/or [FCPA](#) and other reviewing staff.

8-0202.2 Trail Location

~~8-0202.2A~~

~~A. Trail location shall must be based on safety, circulation, and access considerations. Trails designated on the [Countywide Trails Plan](#) generally parallel to existing or proposed roads shall must be constructed wholly within the road right-of-way. ~~These trails shall be constructed in the general location designated as sidewalk on the typical road section.~~ Trails parallel to ditch section roadways shall must be constructed on the far side of the ditch.~~

~~8-0202.2B~~

~~B. In order to minimize the potential adverse impacts of flooding, erosion, steep slopes and other natural events or site constraints at a stream bank, a All stream valley trails shall should be constructed within a 20-foot ~~feet~~ wide easement, unless it can be demonstrated that an easement of another width is appropriate or required due to the specific site constraints and conditions.~~

~~8-0202.2C~~

~~C. Where the typical road section does not include sufficient width to meet the minimum required trail easements specified in [Table 8.2](#), dedication of additional land adjacent to the street right-of-way will be necessary. This land should be dedicated to the appropriate authority in the form of a public trail easement.~~

8-0000 SIDEWALKS, TRAILS, AND RECREATION

**Table 8.2 Minimum Trail Easement Widths (90-05 PFM)**

Trail Type/ Width ft.	Minimum Required Easement Width ft.
<del>Bikeways</del> 8 ft. wide	13 ft.
Walkways <del>5</del> 4 ft. to 6 ft. wide	<del>11</del> 10-ft.
Equestrian/Hiking trails 6 ft. wide	10 ft.
Stream valley trails 6 ft. to 8 ft. wide	20 ft. ( <a href="#">see § 8-0202.2B</a> )

8-0202.3 Clearing

~~8-0202.3A~~

A. Where possible, trails ~~shall~~ must be located ~~so as~~ to minimize the loss of trees and disruption of natural environmental conditions. A minimum of 2 feet is required between the trail edge and any vertical obstructions such as trees, utility poles, signs or other obstacles.

~~8-0202.3B~~

B. Regardless of trail surface, all vegetative material within a clearing envelope of 10 feet high by 10 feet wide ~~shall~~ must be removed ~~prior to~~ before trail construction. This requirement is to be verified by the design engineer and specified on the approved plans.

~~8-0202.3C~~

C. ~~(90-05 PFM)~~ Generally, ~~†~~ Trails ~~shall~~ must be cleared 2 feet beyond the edge of pavement on both sides. (See the trail clearing diagram in [Plate 4-8 7-8](#)).

8-0202.4 Grade

~~8-0202.4A~~

A. ~~(36-92 PFM)~~ A profile of the proposed trail construction ~~shall~~ must be included in site and subdivision plans. Typical cross-sections ~~shall~~ must be provided for all critical points along the length of the trail (e.g., where the grade of the trail site exceeds 10 percent).

~~8-0202.4B~~

B. Minimum allowable. A minimum grade of 1 percent is recommended except in sags where proper drainage is provided by the cross slope.

~~8-0202.4C~~

C. Maximum allowable:

**Table 8.3 Maximum Allowable Trail Grades**

% Grade	Special Design Requirements for Grade	Comments	Examples
1-6	-	Generally Recommended.	-
6-10	Design engineer <del>shall</del> include considerations for use and safety.	Should be minimized.	Signing, handrail, barriers.
10-15	Special design for use and safety with review and approval by <del>DPWES</del> <u>LDS</u> or other County agencies, as applicable.*	Not recommended and should be avoided wherever possible.	Guardrail, landing switch backs with enlarged radius of curvature, slow down areas, signage.

\*Short dips or excessively long grades ~~shall~~ may not be approved.

8-0202.5 Cross Slope

~~8-0202.5A~~

A. Minimum allowable: 50:1 of width

~~8-0202.5B~~

B. Maximum allowable: 25:1 of width

~~8-0202.5C~~

C. Where slopes exceed the above recommended standards, the design engineer ~~shall~~ must submit a special design including use and safety considerations, for review and approval by ~~DPWES~~LDS or other County agencies as applicable.

8-0202.6 Turning Radius

~~8-0202.6A~~

A. Minimum allowable. Twenty feet is recommended; however, the actual minimum allowable should be computed by the design engineer based on expected use and site conditions.

8-0202.7 Drainage

~~8-0202.7A~~

A. All trail designs ~~shall~~ must be in accordance with the storm drainage requirements of the PFM.

~~8-0202.7B~~

B. Trails located within the State right-of-way ~~shall~~ must meet VDOT standards.

~~8-0202.7C~~

C. As a general guide where a trail is cut into a hillside, a ditch ~~shall~~ should be placed along the high side of the path to prevent sheet flow across the walkway.

~~8-0202.7D~~

D. Appropriate drainage improvement ~~shall~~ must be provided along grades exceeding 6 percent.

## 8-0000 SIDEWALKS, TRAILS, AND RECREATION

### 8-0202.8 Safety Considerations

~~8-0202.8A~~

A. The safety of potential pedestrians, and others who may use or travel on a trail, ~~shall~~ must be a prime consideration in the trail design.

~~8-0202.8B~~

B. ~~(47-95 PFM)~~. A utility strip is required between the edge of the trail and the back edge of the curb and gutter. Two feet is the minimum requirement. The actual separation should be a safety consideration by the design engineer, and ~~shall~~ must be a consideration in the approval process. No trail ~~shall~~ may be constructed directly adjacent to street curb or street pavement. Concrete trails which are to be maintained by the County ~~shall~~ must meet the preceding requirements.

~~8-0202.8C~~

C. Trails which are to be located adjacent to roads with speed limits exceeding 25 mph, and which have grades greater than 6 percent, may require special safety measures such as the installation of barriers or other safety devices, or an increase in the distance between the trail and the highway.

~~8-0202.8D~~

D. Standard signing and markings from the [Manual of Uniform Traffic Control Devices](#) ~~shall~~ must be included in the design and construction of the trail to alert trail users of potential hazards and to convey regulatory messages.

~~8-0202.8E~~

E. The engineer ~~shall~~ must address stopping and intersection sight distance at all trail intersections, curves, and particularly where steep grades are proposed at trail/roadway intersections. Obstructions to the visibility of motorists or trail users ~~shall~~ must be removed or the trail aligned around the obstruction to maximize visibility.

~~8-0202.8F~~

F. ~~(90-05 PFM)~~ Standard ramps for mobility impaired persons ~~will~~ must be provided at all trail curb crossings to allow continuity of trail use by bicyclists and the mobility impaired. For trails equal to or greater than 6 feet in width, curb depressions equaling the trail width ~~shall~~ must be used, with the trail surface sloping in accordance with the [Virginia USBC](#) and the [Americans with Disabilities Act Accessibility Guidelines](#). If the trail is to be maintained by [VDOT](#), the ramp ~~shall~~ must be designed in accordance with [VDOT](#) standards ([IIM-LD-55.7](#) or subsequent revisions).

### 8-0202.9 Pedestrian Bridges

~~8-0202.9A~~

A. Pedestrian bridges ~~shall~~ must be prefabricated using a standardized steel truss design with pressure-treated timber decking on sound reinforced concrete abutments. Bridge specifications may be obtained from [DPWES](#). Special designs will be reviewed for locations requiring spans greater than 50 feet, or

8-0000 SIDEWALKS, TRAILS, AND RECREATION

other special design considerations. Pre-manufactured bridges composed of other materials, such as fiberglass, concrete, aluminum, or composite materials, may be allowed based upon suitable site conditions and loading requirements as determined by the jurisdictional agency designated in [Table 8.4](#).

8-0202.9B

B. Bridge Width. A minimum of 8 feet. Bridge width 2 feet greater than the trail width is required for trails greater than 6 feet wide. Bridges constructed in [VDOT right-of-way](#) should conform to the [VDOT Road Design Manual](#) standard.

8-0202.9C

C. All trails crossing watercourses require either a bridge or a fair-weather crossing.

8-0202.10

Bicycle Railing. (~~36-92 PFM~~) Standard bicycle railing (see [Plate 14A-8](#) ~~17A-8~~) will be provided on all trails designated as bicycle trails, multi-use trails, or shown on the [Countywide Trails Plan](#), as required. For sidewalks and other walkways designated as primarily for pedestrian use, [VDOT Standard Handrail HR-1](#), will be provided, as required.

8-0203

**Trails on Land Owned and Managed by [FCPA](#)**

8-0203.1

General Information

8-0203.1A

A. The [County Stream Valley Park Plan](#) identifies several scenic stream valleys across the County. Many of these streams are also represented on the [Countywide Trails Plan](#). Dedication of the stream valley floodplain and adjacent slopes to [FCPA](#) is ~~required~~ recommended when any of these streams cross or abut land proposed for development. Trail construction may be required as part of [FCPA](#)'s acceptance of this land. The location of required trail facilities ~~shall~~ must be approved by the [FCPA](#) Trails Planner during the site/subdivision plan review process.

8-0203.1B

B. Trails to be owned and managed by [FCPA](#) ~~shall~~ must be designed and constructed in accordance with [§ 8-0203](#) and [Plates 1-8](#) through [14-8](#) ~~4-8~~ through [17-8](#).

8-0203.1C

C. After stake-out/flagging of proposed trails, the developer ~~shall~~ must contact the [FCPA](#) Trails Planner to schedule a field review of the proposed trail site. The [FCPA](#) Trails Planner ~~shall~~ must be contacted a minimum of three days ~~prior to~~ before the field review.

8-0000 SIDEWALKS, TRAILS, AND RECREATION

- 8-0203.2 Standards and Criteria. Trails to be operated by [FCPA](#) ~~shall~~ must be constructed in accordance with the standards and criteria in [§ 8-0202](#) and the following additional requirements:
- 8-0203.2A A. Specific trail alignment, clearing limits, and trail stabilization methods ~~shall~~ must be determined by the [FCPA](#) Trails Planner during the field review.
- 8-0203.2B B. No clearing or construction ~~shall~~ must be performed ~~prior to~~ before [FCPA](#) stake-out approval.
- 8-0203.2C C. Stream Valley Trail alignments are subject to field revision from approved plans by developers or their representative with [FCPA](#) approval.
- 8-0203.2D D. Steps ~~shall~~ may be provided only in instances where requested by [FCPA](#). Steps ~~shall~~ must be of concrete construction in accordance with [VDOT](#) standards.
- 8-0203.2E E. The developer ~~shall~~ must provide barricades at all trail access locations to prevent unauthorized vehicular access. The barricades ~~shall~~ must have locking/unlocking devices to permit access by authorized maintenance vehicles. Barricade designs are subject to approval by the [FCPA](#) Trails Planner (see barricade details in [Plates 6-8 through 12-8](#) ~~9-8 through 15-8~~).
- 8-0203.2F F. Developers ~~shall~~ must provide corner fencing at all access points adjacent to private property. The corner fencing ~~shall~~ must be constructed by installing two 10-foot long sections of split rail fence perpendicular to each other.
- 8-0203.2G G. The developer ~~shall~~ must provide all culverts including flared end sections, concrete end walls, handrails/fencing, bridges, concrete fair weather stream crossings, paved swale crossings (asphalt or concrete), riprap, filter fabric and additional fill material (if needed), as directed by [FCPA](#) Trails Planner in the field, in order to provide a safe, dry, stabilized, well-drained trail surface throughout (see [Plates 6-8 through 14-8](#) ~~9-8 through 17-8~~ for details of the fair weather crossing, bollard, and cable barricade). [FCPA](#) will provide other details upon request.



8-0000 SIDEWALKS, TRAILS, AND RECREATION

**Table 8.4 Maintenance and Operation Jurisdiction of Proposed and Existing Trails<sup>1</sup>**

JURISDICTION AGENCY	TRAILS DESIGNATED ON THE COUNTYWIDE TRAILS PLAN			TRAILS NOT DESIGNATED ON COUNTYWIDE TRAILS PLAN <sup>2</sup>	
	OUTSIDE <u>VDOT</u> <del>RAW</del> ROW WITH RECORDED EASEMENT TO THE COUNTY/ <u>FCPA</u> OR <u>NVRPA</u>	WITHIN <u>VDOT</u> <del>RAW</del> ROW	LAND OWNED OR MANAGED BY <u>FCPA</u> OR <u>NVRPA</u>	LAND OWNED OR MANAGED BY <u>FCPA</u> OR <u>NVRPA</u>	OTHER
<u>FCPA</u> OR <u>NVRPA</u>	X		X	X	
<u>VDOT</u>		X <sup>3</sup>			
<u>DPWES</u> <sup>4</sup>	X	X			
<b>OTHER*</b>					X

FCPA = Fairfax County Park Authority  
NVRPA = Northern Virginia Regional Park Authority  
VDOT = Virginia Department of Transportation  
DPWES = Department of Public Works and Environmental Services (Fairfax County)  
 \* = Homeowner Associations or other private body

<sup>1</sup> Where existing trails are not covered under this table, maintenance and operation jurisdiction ~~shall~~ will be determined after considering easement/land ownership, use, the Countywide Trails Plan, and other relevant factors.

<sup>2</sup> Requires coordination with the County Trails Planner FCDOT and/or FCPA and DPWES to confirm maintenance and operation jurisdiction.

<sup>3</sup> VDOT jurisdiction is subject to State criteria. Trails that do not meet State criteria ~~shall~~ will be under DPWES jurisdiction.

<sup>4</sup> Jurisdiction may include trails constructed as County capital construction projects.

**8-0300 RECREATION**

**8-0301 Metal Bridge:** Eight-foot wide bridge ~~manufactured by Continental Custom Bridge Company, Alexandria, Minnesota, “Wisconsin” model~~ with safety railings, ~~(maximum openings 9 inches)~~ flat or arched span, and self-weathering steel.

**8-0302 Typical Bench:** ~~(43-94 PFM)~~ Iron Mountain Forge, Model 281-6XR/8XR, Double Pedestal Stationary Park Bench with arm rests, or approved equal meeting the following specifications: Overall dimensions ~~shall~~ must be 34 inches high x 22 inches deep and 6 feet or 8 feet long. Seat height above ground ~~shall~~ must be 18 inches. Each Pedestal Park Bench frame ~~shall~~ must have a vertical 2 ½-inch x 2 ½-inch x 36-inch steel post embedded in concrete. Seat and back supports ~~shall~~ must be made from two 3/8-inch x 4-inch x 31¾-inch steel flats bent a total of 75 degrees on minimum radius. Frame ~~shall~~ must be welded such that seat ~~shall~~ will slant down toward back at 5 degrees from horizontal. Finish ~~shall~~ must be electrostatically-applied black powder. Seats and backs ~~shall~~ must be S4S Clear All Heart Redwood. Seat and back ~~shall~~ must consist of eight planks measuring 3 inches x 4 inches x 6 feet or 8 feet. All planks ~~shall~~ must have all edges eased to a 3/8-inch radius. All bolt holes ~~shall~~ must be precision drilled for easy field assembly. Sixteen zinc-plated carriage bolts and nuts ~~shall~~ must be used in attaching the aforementioned planks with frames. Arm rests ~~shall~~ must be provided on each side of the bench.

**8-0303 Typical Backless Bench:** ~~(43-94 PFM)~~ Iron Mountain Forge, Model 285-6XR/8XR, Double Pedestal Flat Stationary Park Bench, or approved equal meeting the following specifications: Overall dimensions ~~shall~~ must be 18 inches high x 15 ½ inches deep x 6 feet or 8 feet long. Seat height above ground ~~shall~~ must be 18 inches. Each Pedestal Park Bench frame ~~shall~~ must have a vertical 2½-inch x 2½-inch x 36-inch steel post. Horizontal frame supports ~~shall~~ must be fabricated from two 3/8-inch x 4-inch x 14 ½-inch steel flats and ~~shall~~ must be electrically welded to vertical post. Finish ~~shall~~ must be electrostatically applied black powder. Seat ~~shall~~ must be S4S Clear All Heart Redwood. Seats ~~shall~~ must consist of four planks measuring 3 inches x 4 inches x 6 feet or 8 feet. All planks ~~shall~~ must have all edges eased to a 3/8-inch radius. All bolt holes ~~shall~~ must be precision drilled for easy field assembly. Eight zinc-plated carriage bolts and nuts ~~shall~~ must be used in attaching the aforementioned planks with frames.

**8-0304 Typical Grill:** ~~(43-94 PFM)~~ Iron Mountain Forge, Model 200-X, or approved equal meeting the following specifications: Firebox ~~shall~~ must have a length of 20 inches, a width of 15 inches, and a height of 10 inches, and ~~shall~~ must be fabricated from 7-gauge steel. For safety, all exposed corners of firebox plate ~~shall~~ must be rounded to a 1½-inch radius. For drainage, holes ~~shall~~ must be punched in rear corners of firebox bottom. Cooking grate ~~shall~~ must be fabricated from ½-inch steel bars with a cooking area of 300 square inches. Bars ~~shall~~ must be spaced 1-1/8 inches on center. Heavy duty 3½-inch outside diameter iron pipe, 40 inches in

length, shall must be included for stationary mounting in concrete. Grill shall must rotate 360 degrees, but will be non-removable. Cooking grate shall must be welded to two 5/8-inch support bars such that it will be adjustable to four different heights from 3¼ inches to 8½ inches above fire bed. Grill shall must be equipped with non-conductive spring handle grips. Standard finish shall must be non-toxic, rust-resistant, baked on black, dry powder paint. Optional finish consists of hot-dipped galvanizing per ASTM A120 after fabrication, thus covering all welds and outer surfaces except cooking grate, which shall must be painted with non-toxic, rust-resistant, baked-on black, dry powder paint. Optional utility shelf shall must be fabricated from 3/16-inch steel plate and measure 8 inches x 20 inches.

**8-0305**

**Typical Picnic Table:** (43-94 PFM) Iron Mountain Forge, Model 238-6GT, or approved equal meeting the following specifications: Overall size shall must be 59 ¼ inches wide x 29 inches high x 6 feet or 8 feet long. Seat height above ground to be 17 inches. Table top width to be 29 inches. Picnic table leg frame shall must be fabricated from 2-3/8-inch outside diameter iron pipe and shall must be electrically welded into a one-piece end frame. Frame shall must be a walk-through design. All bends are to be on a 4 13/16-inch inside radius. No pipe or metal parts shall must extend past the outside edge of the seat. All table top and seat mounting brackets shall must be fabricated from 6-inch, 7-gauge steel plate bent at 90 degrees to form a 4-inch x 2-inch angle. All table top and seat mounting brackets shall must be precision punched. For safety, all mounting brackets shall must be rounded to a 1½-inch radius on all corners of surfaces in a vertical plane. Cross braces shall must consist of one 5/16-inch outside diameter galvanized iron pipe with ends flattened, punched and rounded to a 1½-inch radius. One 1½-inch x ½-inch x 1/8-inch x 26 ½-inch center channel shall must be mechanically attached to the bottom side of table top to prevent warping of wood. Center channel shall must have a 2-inch x 1-inch, 7-gauge tab extending downward such that cross braces may be mechanically fastened to center channel, thus providing overall strength and rigidity. Leg end frame and center channel finish shall must be hot-dipped galvanized per ASTM A120 after fabrication covering all welds, cut ends and punched holes. Two ½-inch diameter drain holes shall must be drilled in the bottom of each end frame. Four 5/8-inch diameter holes shall must be punched in the angle iron at the various locations where the pipe frame attaches. These holes shall must be placed to allow the galvanizing to flow through and coat all surfaces inside and out. Seats and tops shall must be No. 1 S4S kiln-dried CCA pressure-treated Southern Yellow Pine, treated to 0.25 pounds/cubic foot (kiln-dried before and after treatment). All Southern Pine Inspection Bureau (SPIB), Redwood Inspection Services (RIS) and American Wood Preservers Association (AWPA) rules and practices shall govern. Seats and tops shall must consist of five planks measuring 2 inches x 10 inches x 6 inches or 8 inches long. All planks shall must have top edges eased to a 3/8-inch radius. All bolt holes shall must be precision drilled for easy field assembly. Twenty 3/8-inch – 16NC x 2¼-inch carriage bolts and nuts shall must be used in attaching tops and seats with leg frames. Six 5/16-inch x 1½-inch lag screws shall must be used in attaching center channel with table top. Three 3/8-inch - 16 NC x

1-inch machine bolts with nut-lock washers ~~shall~~ must be used in attaching braces to leg frames as well as to the center channel. All mechanical fasteners ~~shall~~ must be zinc-plated for prevention of rust and corrosion.

**8-0306**

**Typical Wheelchair-Accessible Picnic Table.** ~~(43-94-PFM)~~ Iron Mountain Forge, Model 238-HGT, or approved equal meeting the following specifications: Overall size to be 59¼ inches wide x 29 inches high x 8 feet long. Seat height above ground to be 17 inches. Table top width to be 29 inches. Picnic table leg frame ~~shall~~ must be fabricated from 1-5/8-inch outside diameter iron pipe and ~~shall~~ must be electrically welded into a one-piece end frame. Frame ~~shall~~ must be walk-through design. All bends are to be on a 3-3/16-inch inside radius. No pipe or metal parts ~~shall~~ must extend past the outside edge of the seat. All table top and seat mounting brackets ~~shall~~ must be fabricated from 4-inch, 7-gauge steel plate bent at 90 degrees to form a 2-inch x 2-inch angle. All table top and seat mounting brackets ~~shall~~ must be precision punched. For safety, all mounting brackets ~~shall~~ must be rounded to a 1½-inch radius on all corners of surfaces in a vertical plane. Cross braces ~~shall~~ must consist of 1-5/16-inch outside diameter galvanized iron pipe with ends flattened, punched and rounded to 1½-inch radius. One 1½-inch x ½-inch x 1/8-inch x 26½-inch center channel ~~shall~~ must be mechanically attached to the bottom side of table top to prevent warping of wood. Center channel ~~shall~~ must have a 2-inch x 1-inch, 7-gauge tab extending downward such that cross braces may be mechanically fastened to center channel, thus providing overall strength and rigidity. Leg end frame and center channel finish ~~shall~~ must be hot-dipped galvanized per ASTM A120 after fabrication covering all welds, cut ends and punched holes. Two ½-inch diameter drain holes ~~shall~~ must be drilled in the bottom of each end frame. Four 5/8-inch diameter holes ~~shall~~ must be punched in the angle iron at the various locations where the pipe frame attaches. These holes ~~shall~~ must be placed to allow the galvanizing to flow through and coat all surfaces inside and out. Seats and tops ~~shall~~ must be No. 1 S4S kiln-dried CCA pressure-treated Southern Yellow Pine, treated to 0.25 pounds/cubic foot (kiln-dried before and after treatment). All SPIB, RIS, and AWP rules and practices shall govern. Table tops ~~shall~~ must consist of three planks measuring 2 inches x 10 inches x 8 feet long. Table seats ~~shall~~ must consist of two planks measuring 2 inches x 10 inches x 6 feet long. All planks ~~shall~~ must have top edges eased to a 3/8-inch radius. All bolt holes ~~shall~~ must be precision drilled for easy field assembly. Twenty 3/8-inch - 16 NC x 2 ¼-inch carriage bolts and nuts ~~shall~~ must be used in attaching tops and seats with leg frames. Six 5/16-inch x 1 ½-inch lag screws ~~shall~~ must be used in attaching center channel with table top. Three 3/8-inch - 16 NC x 1-inch machine bolts with nut-lock washers ~~shall~~ must be used in attaching braces to leg frames as well as to the center channel. All mechanical fasteners ~~shall~~ must be zinc-plated for prevention of rust and corrosion.

**8-0307** **Tot Lots**

8-0307.1 Where tot lots are proposed, the following criteria should be considered in the design of the facility:

- A. Tot lots must be designed for children, ages one through six.
- B. If the tot lot is to be enclosed, benches must be located inside the enclosure.
- C. Equipment should include a minimum of 25 percent accessible components to accommodate persons with disabilities.
- D. Tot lots must be located within sight of buildings, residences, well-used walkways or streets. Tot lots must also be located so they are easily accessible and within walking distance from all areas of the neighborhood.
- E. Equipment designed for school age children (ages 5-12) may not be included in a tot lot.
- F. All play equipment must be in accordance with current approved [Consumer Product Safety Commission](#) recommendations and guidelines, and installed in accordance with manufacturer's recommendations.
- G. The minimum area of a tot lot must be 1,000 square feet and must contain a minimum of four distinct types of activity (i.e., swinging, sliding, climbing, jumping and balancing).
- H. A tot lot must be enclosed when the tot lot is located within 100 feet of a road, street or parking lot. The type of enclosure must be chain link fence (minimum height of 42 inches, knuckled fabric selvage, top and bottom).
- I. The surface of the tot lot must be shown and must contain a minimum of 8 inches of woodchips, sand or pea gravel over a dry, compacted base.
- J. All play equipment must have a use area under the equipment, and a 6-foot buffer between use areas of adjacent equipment or benches, as defined below. Curbing of any type, fences, trees, and walls must be kept outside the use area of all equipment, so the users will not fall and strike their body on the obstacle. Suggested use areas are identified in the current [Consumer Product Safety Commission](#) guidelines.
- K. Benches must be located within tot lot areas, and should have a use area as follows: 4 feet in front, 2 feet on the sides, 2 feet in back for a bench with a back, or 4 feet in back for a backless bench. Benches may also be located flush against a fence or back wall with no rear safety zone needed.