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STANDARD DESIGNATION	PLATE NO.	DESCRIPTION	SECTION
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CW-1	2-8	Deleted with 90-05-PFM	
CCR-2	3-8	Deleted with 90-05-PFM	
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N/A	19-8	Tot Swinging Devices Layout	8-0300
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PA-15	30-8	Tennis Court Layout	8-0300
PA-16	31-8	Tennis Court Net and Cross-Section Details	8-0300
PA-17	32-8	Fence Post	8-0300
PA-18	33-8	Court Paving Detail	8-0300
N/A	34-8	Tennis Practice Court Layout	8-0300
PA-20	35-8	Tennis Practice Wall	8-0300
N/A	36-8	Elevation – Tennis Court Practice Wall	8-0300
N/A	37-8	Tennis Practice Wall Attachment	8-0300

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STANDARD DESIGNATION	PLATE NO.	DESCRIPTION	SECTION
N/A	38-8	Tennis Practice Wall Attachment	8-0300
N/A	39-8	Top of Practice Wall Fence Post	8-0300
N/A	40-8	Tennis Practice Court – Design Information	8-0300
N/A	41-8	Courts – Design Information	8-0300
N/A	42-8	Multi-Use Court Plan	8-0300
PA-26	43-8	Basketball Backstop	8-0300
PA-27	44-8	Soccer – Design Information	8-0300

8-0100 SIDEWALKS

8-0101 General Information (90-05-PFM)

8-0101.1 Sidewalks shall be provided as required by 101-2-2 of the Subdivision Ordinance and 17-201 of the Zoning Ordinance. Further, sidewalks shall 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 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 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 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 sidewalk meeting current PFM standards and specifications exists at the time of plan submission or
- b. when it can be demonstrated on the plan that construction of a trail in lieu of the sidewalk shall meet the requirements of § 8-0200.

In such cases of relief, the developer is relinquished from providing an escrow but not the easement or right-of-way necessary for any future construction of same sidewalk pursuant to § 7-0105.

8-0101.6 (121-15-PFM) The Director, following consultation with 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 relate to technical implementation issues rather than financial hardship as may be experienced by the developer. In considering a modification or waiver request, the Director may consider factors such as, but not limited to the following:

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- a. 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. interim conditions and phasing of project construction;
- c. street conditions such as the availability of parking, traffic volume, and speed limit;
- d. compatibility of pedestrian connections to adjacent and neighboring uses;
- e. connectivity and distance to a school, community facility (e.g., library, recreation center, park), neighborhood retail, and transit stops and stations; and
- f. other situations where the Director determines that the developer has justified good cause to support a modification or waiver.

8-0101.6A 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 Any developer seeking a modification or waiver to delay sidewalk construction shall provide an escrow for future construction based on the current unit price schedule.

8-0101.7 When a sidewalk is designed, it shall be 5 feet wide to allow pedestrian passing, or include passing areas 5 feet x 5 feet at reasonable intervals not to exceed 200 feet. The passage along or within a sidewalk shall 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 a sidewalk be less than 3 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 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 made and approved after the subgrade has been shaped and prior to 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 be placed and compacted on a stable subgrade prior to pouring the concrete.

8-0102 Subdivisions Containing Lots Averaging Less than 25,001 square feet (100-07-PFM, 90-05-PFM) A sidewalk shall 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 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 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 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 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 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 also apply to streets in the vicinity of proposed schools, the construction of which is included in the County's capital improvement program.

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 15.1, 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 be constructed by the developer where these trails abut or cross property to be developed or improved. Construction of these Countywide Trails shall 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:

Fairfax County Zoning Ordinance
Code of the County of Fairfax
Fairfax County Stream Valley Policy
Fairfax County Comprehensive Plan

The final location of trails shall be approved by the Director after review by the County Trails Planner and other reviewing staff.

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 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 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 and other reviewing staff shall determine the trail type, surface and width in accordance with current standards and anticipated use.

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8-0201.6 When Countywide trails are to be constructed, maintenance and operation jurisdiction shall be determined during the site/subdivision plan approval process. Public access/trail easements shall be conveyed to the Board, FCPA or Northern Virginia Regional Park Authority, as deemed appropriate by the Director. The easement width and jurisdiction shall 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 be used in the design and review of Countywide Trails, development, site and subdivision plans. Trails accepted for VDOT maintenance shall 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 (90-05-PFM) Trail type, width and surface shall be approved by the Director after recommendation from the County Trails Planner, the Department of Transportation, and other reviewing staff and shall be primarily based on site conditions and expected usage.

8-0202.1B (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, DPWES, 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 conform to the minimum criteria outlined in Table 8.1 and the trail cross-sections in Plates 4-8 to 17-8.

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

Trail Use	Trail Surface and Width
Bikeways	Asphalt 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).
	Concrete 4-ft. to 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).
Equestrian/ Hiking Trails	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 and other reviewing staff.

8-0202.2 Trail Location

8-0202.2A Trail location shall be based on safety, circulation, and access considerations. Trails designated on the Countywide Trails Plan generally parallel to existing or proposed roads shall 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 be constructed on the far side of the ditch.

8-0202.2B In order to minimize the potential adverse impacts of flooding, erosion, steep slopes and other natural events or site constraints at a stream bank, all stream valley trails shall be constructed within a 20-foot wide easement.

8-0202.2C 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.

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

Trail Type/ Width ft.	Minimum Required Easement Width ft.
Bikeways 8 ft. wide	13 ft.
Walkways 4 ft. to 6 ft. wide	10 ft.
Equestrian/Hiking trails 6 ft. wide	10 ft.
Stream valley trails 6 ft. to 8 ft. wide	20 ft.

8-0202.3 Clearing

8-0202.3A Where possible, trails shall 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 Regardless of trail surface, all vegetative material within a clearing envelope of 10 feet high by 10 feet wide shall be removed prior to trail construction. This requirement is to be verified by the design engineer and specified on the approved plans.

8-0202.3C (90-05-PFM) Generally, trails shall be cleared 2 feet beyond the edge of pavement on both sides. (See the trail clearing diagram in Plate 7-8).

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8-0202.4 Grade

8-0202.4A (36-92-PFM) A profile of the proposed trail construction shall be included in site and subdivision plans. Typical cross-sections shall 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 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 Maximum allowable:

% Grade	Special Design Requirements for Grade	Comments	Examples
1-6	-	Generally Recommended.	-
6-10	Design engineer shall 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 DPWES 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 not be approved.

8-0202.5 Cross Slope

8-0202.5A Minimum allowable: 50:1 of width

8-0202.5B Maximum allowable: 25:1 of width

8-0202.5C Where slopes exceed the above recommended standards, the design engineer shall submit a special design including use and safety considerations, for review and approval by DPWES or other County agencies as applicable.

8-0202.6 Turning Radius

8-0202.6A 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 All trail designs shall be in accordance with the storm drainage requirements of the PFM.

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8-0202.7B Trails located within the State right-of-way shall meet VDOT standards.

8-0202.7C As a general guide where a trail is cut into a hillside, a ditch shall be placed along the high side of the path to prevent sheet flow across the walkway.

8-0202.7D Appropriate drainage improvement shall be provided along grades exceeding 6 percent.

8-0202.8 Safety Considerations

8-0202.8A The safety of potential pedestrians, and others who may use or travel on a trail, shall be a prime consideration in the trail design.

8-0202.8B (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 be a consideration in the approval process. No trail shall be constructed directly adjacent to street curb or street pavement. Concrete trails which are to be maintained by the County shall meet the preceding requirements.

8-0202.8C 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 Standard signing and markings from the Manual of Uniform Traffic Control Devices shall 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 The engineer shall 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 be removed or the trail aligned around the obstruction to maximize visibility.

8-0202.8F (90-05-PFM) Standard ramps for mobility impaired persons will 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 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 be designed in accordance with VDOT standards (IIM-LD-55.7 or subsequent revisions).

8-0202.9 Pedestrian Bridges

8-0202.9A Pedestrian bridges shall be prefabricated using a standardized steel truss design with pressure-treated timber decking. Bridge specifications may be obtained from DPWES. Special

designs will be reviewed for locations requiring spans greater than 50 feet, or other special design considerations.

8-0202.9B 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.

8-0202.9C 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 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 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 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 be approved by the FCPA Trails Planner during the site/subdivision plan review process.

8-0203.1B Trails to be owned and managed by FCPA shall be designed and constructed in accordance with § 8-0203 and Plates 4-8 through 17-8.

8-0203.1C After stake-out/flagging of proposed trails, the developer shall contact the FCPA Trails Planner to schedule a field review of the proposed trail site. The FCPA Trails Planner shall be contacted a minimum of three days prior to the field review.

8-0203.2 Standards and Criteria. Trails to be operated by FCPA shall be constructed in accordance with the standards and criteria in § 8-0202 and the following additional requirements:

8-0203.2A Specific trail alignment, clearing limits, and trail stabilization methods shall be determined by the FCPA Trails Planner during the field review.

8-0203.2B No clearing or construction shall be performed prior to FCPA stake-out approval.

8-0203.2C Stream Valley Trail alignments are subject to field revision from approved plans by developers or their representative with FCPA approval.

8-0203.2D Steps shall be provided only in instances where requested by FCPA. Steps shall be of concrete construction in accordance with VDOT standards.

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8-0203.2E The developer shall provide barricades at all trail access locations to prevent unauthorized vehicular access. The barricades shall 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 9-8 through 15-8).

8-0203.2F Developers shall provide corner fencing at all access points adjacent to private property. The corner fencing shall be constructed by installing two 10-foot long sections of split rail fence perpendicular to each other.

8-0203.2G The developer shall 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 9-8 through 17-8 for details of the fair weather crossing, bollard, and cable barricade). FCPA will provide other details upon request.

Table 8.4 Maintenance and Operation Jurisdiction of Proposed and Existing Trails¹

JURISDICTION AGENCY	TRAILS DESIGNATED ON THE COUNTYWIDE TRAILS PLAN			TRAILS NOT DESIGNATED ON COUNTYWIDE TRAILS PLAN ²	
	OUTSIDE VDOT R/W WITH RECORDED EASEMENT TO THE COUNTY/FCPA OR NVRPA	WITHIN VDOT R/W	LAND OWNED OR MANAGED BY FCPA OR NVRPA	LAND OWNED OR MANAGED BY FCPA OR NVRPA	OTHER
FCPA OR NVRPA	X		X	X	
VDOT		X ³			
DPWES⁴	X	X			
OTHER*					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

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

² Requires coordination with the County Trails Planner and DPWES to confirm maintenance and operation jurisdiction.

³ VDOT jurisdiction is subject to State criteria. Trails that do not meet State criteria shall be under DPWES jurisdiction.

⁴ 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, 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 be 34 inches high x 22 inches deep and 6 feet or 8 feet long. Seat height above ground shall be 18 inches. Each Pedestal Park Bench frame shall have a vertical 2 ½-inch x 2 ½-inch x 36-inch steel post embedded in concrete. Seat and back supports shall 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 be welded such that seat shall slant down toward back at 5 degrees from horizontal. Finish shall be electrostatically-applied black powder. Seats and backs shall be S4S Clear All Heart Redwood. Seat and back shall consist of eight planks measuring 3 inches x 4 inches x 6 feet or 8 feet. All planks shall have all edges eased to a 3/8-inch radius. All bolt holes shall be precision drilled for easy field assembly. Sixteen zinc-plated carriage bolts and nuts shall be used in attaching the aforementioned planks with frames. Arm rests shall 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 be 18 inches high x 15 ½ inches deep x 6 feet or 8 feet long. Seat height above ground shall be 18 inches. Each Pedestal Park Bench frame shall have a vertical 2½-inch x 2½-inch x 36-inch steel post. Horizontal frame supports shall be fabricated from two 3/8-inch x 4-inch x 14 ½-inch steel flats and shall be electrically welded to vertical post. Finish shall be electrostatically applied black powder. Seat shall be S4S Clear All Heart Redwood. Seats shall consist of four planks measuring 3 inches x 4 inches x 6 feet or 8 feet. All planks shall have all edges eased to a 3/8-inch radius. All bolt holes shall be precision drilled for easy field assembly. Eight zinc-plated carriage bolts and nuts shall 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 have a length of 20 inches, a width of 15 inches, and a height of 10 inches, and shall be fabricated from 7-gauge steel. For safety, all exposed corners of firebox plate shall be rounded to a 1½-inch radius. For drainage, holes shall be punched in rear corners of firebox bottom. Cooking grate shall be fabricated from ½-inch steel bars with a cooking area of 300 square inches. Bars shall be spaced 1-1/8 inches on center. Heavy duty 3½-inch outside diameter iron pipe, 40 inches in length, shall be included for stationary mounting in concrete. Grill shall rotate 360 degrees, but will be non-removable. Cooking grate shall 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 be equipped with non-conductive spring handle grips. Standard finish shall 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 be painted with non-toxic,

rust-resistant, baked-on black, dry powder paint. Optional utility shelf shall 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 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 be fabricated from 2-3/8-inch outside diameter iron pipe and shall be electrically welded into a one-piece end frame. Frame shall be a walk-through design. All bends are to be on a 4 13/16-inch inside radius. No pipe or metal parts shall extend past the outside edge of the seat. All table top and seat mounting brackets shall 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 be precision punched. For safety, all mounting brackets shall be rounded to a 1½-inch radius on all corners of surfaces in a vertical plane. Cross braces shall 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 be mechanically attached to the bottom side of table top to prevent warping of wood. Center channel shall 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 be hot-dipped galvanized per ASTM A120 after fabrication covering all welds, cut ends and punched holes. Two ½-inch diameter drain holes shall be drilled in the bottom of each end frame. Four 5/8-inch diameter holes shall be punched in the angle iron at the various locations where the pipe frame attaches. These holes shall be placed to allow the galvanizing to flow through and coat all surfaces inside and out. Seats and tops shall 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 consist of five planks measuring 2 inches x 10 inches x 6 inches or 8 inches long. All planks shall have top edges eased to a 3/8-inch radius. All bolt holes shall be precision drilled for easy field assembly. Twenty 3/8-inch – 16NC x 2¼-inch carriage bolts and nuts shall be used in attaching tops and seats with leg frames. Six 5/16-inch x 1½-inch lag screws shall 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 be used in attaching braces to leg frames as well as to the center channel. All mechanical fasteners shall 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 be fabricated from 1-5/8-inch outside diameter iron pipe and shall be electrically welded into a one-piece end frame. Frame shall be walk-through design. All bends are to be on a 3-3/16-inch inside radius. No pipe or metal parts shall extend past the outside edge of the seat. All table top and seat mounting brackets shall 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 be precision punched. For safety, all mounting brackets shall be rounded to a 1½-inch radius on all corners of surfaces in a vertical plane. Cross braces shall consist of 1-5/16-inch outside diameter galvanized iron pipe with ends flattened, punched and rounded to 1½-inch radius. One 1½-

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inch x 1/2-inch x 1/8-inch x 26 1/2-inch center channel shall be mechanically attached to the bottom side of table top to prevent warping of wood. Center channel shall 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 be hot-dipped galvanized per ASTM A120 after fabrication covering all welds, cut ends and punched holes. Two 1/2-inch diameter drain holes shall be drilled in the bottom of each end frame. Four 5/8-inch diameter holes shall be punched in the angle iron at the various locations where the pipe frame attaches. These holes shall be placed to allow the galvanizing to flow through and coat all surfaces inside and out. Seats and tops shall 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 consist of three planks measuring 2 inches x 10 inches x 8 feet long. Table seats shall consist of two planks measuring 2 inches x 10 inches x 6 feet long. All planks shall have top edges eased to a 3/8-inch radius. All bolt holes shall be precision drilled for easy field assembly. Twenty 3/8-inch - 16 NC x 2 1/4-inch carriage bolts and nuts shall be used in attaching tops and seats with leg frames. Six 5/16-inch x 1 1/2-inch lag screws shall 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 be used in attaching braces to leg frames as well as to the center channel. All mechanical fasteners shall be zinc-plated for prevention of rust and corrosion.