

## PUBLIC IMPROVEMENT PLAN FIRST SUBMISSION CHECKLIST

Engineers & Surveyors Institute 4795 Meadow Wood Lane, Suite 115 East, Chantilly, VA 20151 Phone: 703-263-2232 http://www.esinova.org



| Plan Name:                |               |                       | Plan Number:  |  |
|---------------------------|---------------|-----------------------|---------------|--|
| District:                 |               |                       | Review Date:  |  |
| Submitting Firm:          | Contact Name: |                       | Phone Number: |  |
| DPE Number:               |               | DPE Name:             |               |  |
| ESI Peer Reviewer Name: _ |               | Peer Reviewer's Firm: |               |  |

Plan is non-acceptable if any \* box is checked without explanation on plan or alternate solution noted.

| LINE | CODE SECTION            | REQUIREMENT  | SHEET | OK |   | N/A | FFX |
|------|-------------------------|--|-------|----|---|-----|-----|
|      |                         | COVER SHEET  |       |    |   | .,  |     |
| 1    | LDS Policy              | 9/22 edition of cover sheet used   |       |    | * |     |     |
| 2    |                         | Plan approval information completed (identification number,                                  |       |    |   |     |     |
| 2    | LDS Policy              | approval dates, and sheet number)  |       |    |   |     |     |
|      | LDS Tech Bulletin 02-16 | All approved waivers/modifications and waiver/modification                                   |       |    |   |     |     |
| 3    | LDS TECH Bulletin 02-10 | requests are listed, including the ones approved with the zoning                             |       |    |   |     |     |
|      |                         | application  |       |    |   |     |     |
| 4    | PFM 9-0202.2C           | Fire Marshal notes and data filled in  |       |    |   |     |     |
| 5    | PFM 10-104.1A           | Sanitary sewer information filled in   |       |    |   |     |     |
| 6    | 112.1-8101.4.B(4)       | Vicinity map legible and to 1"=2,000' scale or greater                                       |       |    |   |     |     |
| 7    | 112.1-8101.4.B(4)       | Vicinity map shows street names and route numbers for adjoining                              |       |    |   |     |     |
| ,    | 112.1 0101.4.5(4)       | streets  |       |    |   |     |     |
| 8    | PFM 8-0201.6            | Vicinity map shows maintenance responsibilities for existing and                             |       |    |   |     |     |
|      |                         | proposed sidewalk/trail (VDOT, County, or privately maintained)                              |       |    |   |     |     |
| 9    | LDS Policy              | Stormwater Information filled in   |       |    | * |     |     |
| 10   | LDS Policy              | Tax map reference number(s) filled in correctly  |       |    | * |     |     |
| 11   | 112.1-8101.4.B(5)       | Name, contact information and address of the owner and                                       |       |    |   |     |     |
|      |                         | developer filled in  |       |    |   |     |     |
| 12   | LDS Policy              | Design engineer/surveyor's name, address, and phone number                                   |       |    |   |     |     |
| 12   | LDS Policy              | shown. Project manager name and email provided.<br>Magisterial district shown and is correct |       |    | * |     |     |
| 15   | LDS POILCY              | Certificate signed by the surveyor or engineer setting forth the                             |       |    | - |     |     |
| 1/   | 112.1-8101.4.B(7)       | source of title of the owner of the site and the place of record of                          |       |    |   |     |     |
| 14   | 112.1 0101.4.0(7)       | the last instrument in the chain of title  |       |    |   |     |     |
|      |                         | Soils map shown, with site identified. Soils map is based on current                         |       |    |   |     |     |
| 15   | 112.1-8101.4.B(8)       | County Soils Map.  |       |    | * |     |     |
|      |                         | Soils data chart filled in per "Description & Interpretive Guide to                          |       |    |   |     |     |
| 16   | 112.1-8101.4.B(8)       | Soils in Fairfax County"   |       |    |   |     |     |
| 17   | 112.1-8101.4.B(27)      | Owner/developer wetlands permits certification signed  |       |    | * |     |     |
|      | LDS Policy              | Sheet index and sheet titles match   |       |    | * |     |     |
|      |                         | PUBLIC STREETS   |       |    |   |     |     |
| 10   | 112 1 9101 4 0(12)      | Road name and route number shown for existing state-maintained                               |       |    |   |     |     |
| 19   | 112.1-8101.4.B(12)      | streets  |       |    |   |     |     |
| 20   | 112.1-8101.4.B(12)      | Street widths, pavement, curb type and right-of-way shown for                                |       |    | * |     |     |
| 20   | LDS Policy              | existing and proposed streets  |       |    |   |     |     |
| 21   | VDOT Road Design        | Right of way, driveways, intersections, medians, curb, or edge of                            |       |    |   |     |     |
|      | Manual                  | pavement shown and labeled on both sides of existing roadways                                |       |    |   |     |     |
|      | 112.1-8100.7.E(3)       | Vehicular travel lanes, services drives, driveways, or other access                          |       |    |   |     |     |
| 22   |                         | connections to adjoining properties are proposed or service                                  |       |    |   |     |     |
|      |                         | drive/travel lane waiver is approved   |       |    |   |     |     |

| PFM 7-0101.2Curve data shown for new streets and conform with street category23VDOT Road Design<br>Manual Appendix A-1Curve data shown for new streets and conform with street category24PFM 7-0107.5A & 5BStop or yield signs shown at all intersections25PFM 7-0201.1C<br>PFM 7-0304.13All proposed street construction is within existing or dedicated<br>street right-of-way26PFM 7-0301.1A & 1B<br>PFM 8-0101.8Curb-cut ramps provided where required (at site entrance curb<br>returns, along accessible routes, at major crosswalks, HC accessible<br>parking spaces, etc.). Curb cut ramps are entirely within right of<br>way if VDOT maintained. |          |          |          |          |
|--|----------|----------|----------|----------|
| Manual Appendix A-1   24 PFM 7-0107.5A & 5B Stop or yield signs shown at all intersections   25 PFM 7-0201.1C All proposed street construction is within existing or dedicated street right-of-way   26 PFM 7-0301.1A & 1B Curb-cut ramps provided where required (at site entrance curb returns, along accessible routes, at major crosswalks, HC accessible parking spaces, etc.). Curb cut ramps are entirely within right of way if VDOT maintained.   |          |          |          |          |
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| 25 PFM 7-0201.1C<br>PFM 7-0304.13 All proposed street construction is within existing or dedicated<br>street right-of-way   26 PFM 7-0301.1A & 1B<br>PFM 8-0101.8 Curb-cut ramps provided where required (at site entrance curb<br>returns, along accessible routes, at major crosswalks, HC accessible<br>parking spaces, etc.). Curb cut ramps are entirely within right of<br>way if VDOT maintained.   |          |          |          |          |
| 25 PFM 7-0304.13 street right-of-way   26 PFM 7-0301.1A & 1B Curb-cut ramps provided where required (at site entrance curb returns, along accessible routes, at major crosswalks, HC accessible parking spaces, etc.). Curb cut ramps are entirely within right of way if VDOT maintained.   |          |          |          |          |
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| 26PFM 7-0301.1A & 1B<br>PFM 8-0101.8returns, along accessible routes, at major crosswalks, HC accessible<br>parking spaces, etc.). Curb cut ramps are entirely within right of<br>way if VDOT maintained.  |          |          |          |          |
| 26   PFM 8-0101.8   parking spaces, etc.). Curb cut ramps are entirely within right of way if VDOT maintained.   |          |          |          |          |
| way if VDOT maintained.  |          |          |          |          |
|  |          |          |          |          |
| PFM 7-0303   |          |          |          |          |
| 27VDOT Road Design<br>labeled.Type, width, and throat length of entrance(s) shown. Curb radii<br>labeled.  |          |          |          |          |
| Manual App. F Section 4  |          |          |          |          |
| Profile shown for all proposed streets including widening and  |          |          |          |          |
| turning lanes on existing streets. Elevations, percent grade,  |          |          |          |          |
| 28 PFM 7-0304 culverts, storm/sanitary sewer and utility crossings shown on street   |          | *        |          |          |
| profile. Existing centerline profiles is shown for 200 feet minimum  |          |          |          |          |
| distance to ensure a proper grade tie when a proposed street is an extension of or connects with an existing street.   |          |          |          |          |
|  |          |          |          |          |
| 29 PFM 7-0304 Centerline stationing shown in plan view for existing and proposed streets   | 1        | 1        |          |          |
| Sight distance plan and profile shown. Required or available sight   | +        | 1        | <u> </u> |          |
| PFM 7-0305 distance shown along the path of the sighted vehicle and not along  |          |          |          |          |
| 112 1-5100 2 $D(4)(c)$ the line of sight Sight triangle is clear of obstructions. Sight  |          |          |          |          |
| 30 VDOT Road Design distance easement exists or proposed where the sight line leaves   |          | *        |          |          |
| Manual Appendix F the right of way. Sight distance easement is shown on layout,  |          |          |          |          |
| grading, tree preservation and landscape plans.  |          |          |          |          |
| PFM 7-0306.6B<br>For proposed streets, typical section with dimensions, street   |          |          |          |          |
| 31 VDOT Road Design  |          | *        |          |          |
| Mianual Appendix A-1   |          |          |          |          |
| 32 For existing streets posted speed is provided   |          |          |          |          |
| VDOT Road Design Turn lanes are proposed where required unless a Design Waiver is  |          |          |          |          |
| 33 Manual Appendix F approved<br>Section 3   |          |          |          |          |
| VDOT Road Design Super-elevation provided where required by category   |          |          |          |          |
| 34 Manual Appendix A   |          |          |          |          |
| VDOT IIM-LD-55 At least one curb ramp provided across from new intersections on  |          |          |          |          |
| 35 existing curb and gutter roadways. One curb ramp provided in each   |          |          |          |          |
| PFM 7-0301 direction of intersection crossings.  |          |          |          |          |
| 36 ADA VDOT IIM-LD-55 Curb ramp width matches connecting sidewalk/trail  |          |          |          |          |
| 37 VDOT IIM-I D-55 Curb ramp spot elevations provided to confirm ramp slopes, gutter   |          |          |          |          |
| pan transitions, etc.  | <u> </u> | <u> </u> |          |          |
| 38   VDOT Policy   Latest version of VDOT general notes provided   |          |          |          | <u> </u> |
| Street names are shown for proposed streets  | 1        | 1        |          |          |
| 112.1-8101.4.B(4)  | 1        | 1        |          |          |
| 101-2-2(2) (Townhomes  |          |          |          |          |
| 39 only)   | 1        | 1        |          |          |
| PFM 7-0107   | 1        | 1        |          |          |
|  | 1        | 1        |          |          |
| PFM 7-0306.8 & 13D   | 1        | 1        |          |          |
| PEM 8-0100 Sidewalks provided along the site's frontage as required unless a   | 1        | 1        |          |          |
| 40 101-2-2(10) modification or waiver is approved. Sidewalks connect to adjacent   | 1        | 1        |          |          |
| VDOT SSAR sidewalks, trails, and walkways.   | 1        | 1        |          |          |
| VDOT Road Design Typical sections for existing roads are provided where sidewalk or  |          |          |          |          |
| 41 Manual, Appendix A(1) trail is proposed along the existing road.  | 1        | *        |          |          |
| LDS Policy Sidewalk easement is proposed for sidewalks outside of ROW.   |          | 1        |          |          |

| LINE | CODE SECTION   | REQUIREMENT  | SHEET | OK | NO | N/A | FFX |
|------|--|--|-------|----|----|-----|-----|
| 42   | VDOT Road Design   | Sidewalk width, width of buffer strip between road and sidewalk/trail, and width of maintenance strip between sidewalk   |       |    |    |     |     |
|      | Manual, Appendix A(1)  | and ROW are dimensioned  |       |    |    |     |     |
|      |  | STREETLIGHTS & SITE LIGHTING   |       |    |    |     |     |
| 43   | PFM 7-0802.3   | Existing and proposed utility poles and streetlights shown and labeled   |       |    |    |     |     |
| 44   | PFM 7-0802.3   | Streetlights are proposed along all existing and/or proposed State roads providing frontage to the site  |       |    |    |     |     |
| 45   | PFM 7-0804   | Luminaire style, pole type, pole placement, bracket lengths and mounting heights are shown and labeled.  |       |    |    |     |     |
| 46   | PFM 7-0805.5B<br>LDS Tech Bulletin 14-07   | Lighting computations are provided and sealed by a lighting professional for proposed non-standard streetlights  |       |    |    |     |     |
|      | LDS Teen Builetin 14-07  | EROSION AND SEDIMENT CONTROL   |       |    |    |     |     |
|      | PFM 2-0203.1C  | Limits of clearing and grading shown and includes all work to be   |       | 1  |    |     |     |
| 47   | PFM 2-0208.12  | done (offsite, utility extensions, outfalls, etc.) and matches between grading, erosion and sediment control, landscape plans  |       |    | *  |     |     |
| 48   | LDS Tech Bulletin 11-08  | Priority Rating Form for E&S control is shown, and physiographic province is correctly identified  |       |    |    |     |     |
| 49   | LDS Policy   | Completed certified E&S Control Checklist provided   |       |    |    |     |     |
|      | PFM 12-0305.1 A<br>VESCH Uniform Coding<br>System  | Erosion & sedimentation controls and tree protection measures identified   |       |    | *  |     |     |
| 51   | PFM 11-0104.1<br>PFM 11-0303.4A  | Two-phased E&S Plan provided for erosion and sedimentation control. The E&S narrative includes site specific sequence of construction in each phase.   |       |    |    |     |     |
| 52   | PFM 11-0104.1<br>4VAC50-30-40 (MS4)  | The Phase 1 E&S Plan proposes to install controls needed with minimal clearing. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment are proposed in Phase 1.  |       |    |    |     |     |
| 53   | VESCH 3.13<br>PFM 11-0106.2D   | Sediment trap computations provided (Pipe outlet required if drainage is greater than 1 acre)  |       |    |    |     |     |
| 54   | VESCH 3.14<br>PFM 11-0106.2C   | Sediment basin calculations provided   |       |    |    |     |     |
| 55   | PFM 11-0104.3  | Region specific temporary and permanent seeding tables provided  |       |    |    |     |     |
| 56   | LDS Policy   | Drainage divides are shown correctly, perpendicular to contours<br>and enclosed. The outfall for each drainage area is labeled. Offsite<br>contours are shown to justify drainage divides.   |       |    | *  |     |     |
| 57   | PFM 11-0106.2D   | The minimum length for a temporary gravel construction entrance<br>is dimensioned 75 feet on the detail. If wash rack is proposed, the<br>source of tire wash water is identified.   |       |    |    |     |     |
| 58   | VESCH  | Positive drainage provided into all E&S control measures, including diversion dikes.   |       |    | *  |     |     |
| 59   | VESCH 3.05 (SF)<br>VESCH 3.07 (IP)<br>VESCH 3.09 (DD)<br>VESCH 3.13 (ST)<br>PFM Table 11.1 | Drainage divides shown for E&S measures that have drainage area<br>limitations. Drainage areas do not exceed ¼ ac/100 ft for SF, 1 acre<br>for IP, 5 acres for DD and 3 acres for ST. Drainage divides for SSF<br>are only required when it needs to be demonstrated that<br>concentrated flow to SSF does not exceed 5 cfs. |       |    | *  |     |     |
| 60   | LDS Policy   | Perimeter controls are shown outside of the graded area to accommodate grading operation.  |       |    | *  |     |     |
| 61   | PFM 12-0305.1B   | All erosion and sediment controls and tree protection devices are placed within the area to be disturbed.  |       |    |    |     |     |
| 62   | 104-1-8(a)(3)  | Storm drain inlet protection measures shown on VESCH Plates 3.07-2, 3.07-6 and 3.07-7, which completely block the drain throat or entrance are not proposed.   |       |    |    |     |     |
| 63   | LDS Policy   | SSF adjacent to Floodplains, RPA and steep slopes  |       |    |    |     |     |
|      |  | Provide safety fence where no other perimeter controls are   |       |    |    |     |     |
| 64   | VESCH 3.01   | proposed.  |       |    |    |     |     |

| LINE | CODE SECTION         | REQUIREMENT   | SHEET | OK       | NO  | N/A | FFX      |
|------|----------------------|---|-------|----------|-----|-----|----------|
|      |                      | DRAINAGE  |       | r        |     |     |          |
|      |                      | Drainage system honor natural divides for both concentrated and         |       |          |     |     |          |
| 65   | PFM 6-0202.2         | non-concentrated stormwater runoff leaving the site unless a            |       |          |     |     |          |
|      |                      | written justification is provided and approved by the Director.         |       |          |     |     |          |
|      |                      | Concentrated runoff discharge leaving the site shall not aggravate      |       |          |     |     |          |
| 66   | PFM 6-0202.4         | or create a condition where an existing structure under an              |       |          | *   |     |          |
| 66   | PFIVI 0-0202.4       | approved building permit floods. If such a structure exist,             |       |          |     |     |          |
|      |                      | detention for the 100-year storm event is provided.                     |       |          |     |     |          |
|      |                      | No concentrated surface water discharged offsite without                |       |          |     |     |          |
| 67   | PFM 6-0202.5         | easements unless the discharge is into a natural watercourse, or        |       |          |     |     |          |
|      | PFM 6-0204.1.B.5     | other appropriate discharge point.                                      |       |          |     |     |          |
|      |                      | Sheet flow into lower lying properties: Pre- and post-development       |       |          |     |     |          |
|      |                      | runoff computations provided to demonstrate that increase in peak       |       |          | *   |     |          |
| 68   | PFM 6-0202.6         | flow runoff would not cause or aggravate drainage problem on the        |       |          |     |     |          |
| 00   | 1110 0 0202.0        | downstream properties. Description is included in the outfall           |       |          |     |     |          |
|      |                      | narrative.  |       |          |     |     |          |
|      | PFM 6-0905.4         |   |       |          |     |     |          |
| 60   | PFM 6-0902.2G        | Storm sewer profile is provided showing existing and proposed           |       |          |     |     |          |
| 09   |                      | grade, depth of cover and HGL.  |       |          |     |     |          |
|      | PFM Plate 62-6       |   |       |          |     |     |          |
| 70   | PFM 6-0902.2P        | If storm sewer is close to any building, a loading plane diagram is     |       |          |     |     |          |
|      |                      | provided.   |       |          |     |     |          |
|      | PFM 6-0905           | Design computations provided for closed and open systems                |       |          |     |     |          |
| 71   |                      |   |       |          | *   |     |          |
|      | PFM 6-1200           |   |       |          |     |     |          |
|      |                      | Location and approximate extent of the overland relief paths are        |       |          |     |     |          |
|      |                      | shown. For the path, using overlaying arrows is suggested. Where        |       |          |     |     |          |
|      | PFM 6-1501.2.E & F   | the flow path is near buildings, shading or other suitable see-         |       |          |     |     |          |
| 72   | PFM 6-1502.2         | through graphics are suggested to show the extent, and to               |       |          | *   |     |          |
|      | PFM 6-1502.3         | demonstrate that no building is flooded by the 100-year flow.           |       |          |     |     |          |
|      |                      | Calculations are provided assuming complete failure of storm sewer      |       |          |     |     |          |
|      |                      | system occurs.  |       |          |     |     |          |
|      |                      | The extent of any dam break inundation zone of a state-regulated        |       |          |     |     |          |
|      |                      | impounding structure is shown on the plan and labeled with the          |       |          |     |     |          |
| 73   | 112.1-8101.4.B(40)   | name of the impoundment and the date of the study that                  |       |          |     |     |          |
|      |                      | established the inundation zone.  |       |          |     |     |          |
|      |                      | Storm sewer or storm drainage easement is provided for all              |       |          |     |     |          |
| 74   | LDS Policy           | residential developments  |       |          |     |     |          |
|      | VDOT Drainage Manual |   |       |          |     |     |          |
| 75   | Chapter 9 Section 4  | Flow arrows provided for both existing and proposed storm pipe          |       |          |     |     |          |
|      | Chapter 9 Section 4  | STORMWATER MANAGEMENT   |       |          |     |     |          |
|      |                      |   | [     |          |     |     |          |
|      | 124-2-7.B.4          | Stormwater Management Narrative (if plan is subject to 124-4)           |       | 1        |     |     |          |
| 76   | 124-2-7.B.4          | A general description of the proposed stormwater management             |       |          | *   |     |          |
|      |                      | facilities (including both quality and quantity control).               |       |          |     |     |          |
| 77   | 124-2-7.B.4          | Description of the mechanism through which the facilities will be       |       |          |     |     |          |
|      |                      | operated and maintained after construction is complete.                 |       |          |     |     |          |
| 78   | 124-4-4.D            | Description of how detention requirements for the 2 and 10-year         |       |          | *   |     |          |
| 70   | 124 4 4.0            | storms are met.   |       |          |     |     |          |
| 79   | 124-4-1              | Description of how water quality control requirements are met.          |       |          | *   |     |          |
| 80   | 124-4-3.D            | Reference to the letter of nutrient credit availability, if applicable. |       |          |     |     |          |
| 01   |                      | Description of downstream receiving system and extent of                |       |          | *   |     |          |
| 81   | PFM 6-0204           | downstream review   |       |          | -1- |     |          |
|      |                      | Adequacy conclusion on channel and flood protection requirements        |       |          |     |     |          |
| 82   | 124-4-4.A & B        | for both natural and manmade conveyance systems.                        |       |          | *   |     |          |
| 83   | 124-4-4.E            | Evaluation of sheet flow and its impact on adjacent properties.         |       | <u> </u> | *   |     |          |
| 05   | ±27 7 7.L            | Stormwater Management Narrative (if plan is subject to 124-5)           |       | L        |     |     | <u> </u> |
|      |                      |   |       | 1        |     |     |          |
| 84   | 124-1-11             | Demonstrating compliance with the time limits provision is              |       |          |     |     |          |
|      |                      | provided or a SWOD letter is included<br>Public Improvement Plan        |       |          |     |     | 7/202    |

| LINE | E CODE SECTION REQUIREMENT   |  | SHEET | OK | NO | N/A | FFX |
|------|--|--|-------|----|----|-----|-----|
| 85   | 124-5-3  | A general description of the proposed stormwater management facilities (including both quality and quantity control)   |       |    | *  |     |     |
| 86   | 124-2-7.B.4  | Description of the mechanism through which the facilities will be  |       |    |    |     |     |
|      | 124-5-6.B  | operated and maintained after construction is complete   |       |    |    |     |     |
| 87   | PFM 6-1301.5   | Description of how detention requirement for the 2 and 10-year storms are met  |       |    | *  |     |     |
| 88   | 124-5-4.A & B  | Description of how water quality control requirements based on the time limits provision are met.  |       |    | *  |     |     |
| 89   | PFM 6-0204   | Description of downstream receiving system and extent of downstream review.  |       |    | *  |     |     |
| 90   | PFM 6-0202.6   | Evaluation of sheet flow and its impact on adjacent properties.  |       |    | *  |     |     |
|      |  | Stormwater Management Computations (For plans subject to Article   |       | 1  |    |     |     |
|      |  | 4 and Article 5)   |       |    |    |     |     |
|      | 124-4-4.D, F, & G OR<br>124-5-3.F<br>124-2-7.B.6<br>PFM 6-0802.1<br>PFM 6-0803.2<br>PFM 6-0803.4<br>124-4-6.A<br>LDS Tech Bulletin 14-08<br>PFM Table 6.12 | Hydrologic analysis pre and post development conditions, such as all runoff computations (e.g. Tc, CN, C, etc.)  |       |    |    |     |     |
|      | PFM 6-1300   | Allowable release rate computations  |       |    |    |     |     |
| 93   | PFM 6-1301.5   | Inflow and routed hydrographs for design storms  |       |    |    |     |     |
| 94   | PFM 6-1301.7   | Outlet design computations including stage discharge curve and<br>stage-storage curve  |       |    |    |     |     |
| 95   | PFM 6-0905<br>PFM 6-1109   | Storm sewer computations, hydraulic grade line computations, storm inlet design computations   |       |    |    |     |     |
| 96   | PFM 6-1200   | Culvert analysis computations to demonstrate capacity adequacy   |       |    |    |     |     |
| 97   | 124-2-7-B.6  | Hydraulic computations for natural conveyance system with cross  |       |    |    |     |     |
| 57   | PFM 6-0204.1.B.5   | sections to verify capacity and non-erosive velocity   |       |    |    |     |     |
| 98   | 124-4-2/124-5-4  | Water quality computations based on VRRM (Article 4) or<br>Occoquan methods (Article 5)  |       |    |    |     |     |
|      |  | Other Stormwater Management Requirements   |       |    |    |     |     |
| 99   | 124-4-2.B<br>124-5-4.A.2<br>LDS Tech Bulletin 15-01  | If subject plan is within Water Supply Overlay District (WSPOD) no offsite credit is allowed   |       |    |    |     |     |
| 100  | 124-2-7.B.8<br>PFM 6-0402.8  | Pre and post water quality control map showing areas served by each BMP facility and categorization of land use impervious, turf, and forested areas.  |       |    |    |     |     |
| 101  | 124-2-7.B.8  | Pre and post water quantity control map showing offsite drainage<br>areas supporting topographic, land use and soil information, and<br>areas served by each stormwater detention facility.                      |       |    |    |     |     |
| 102  | PFM 4-0701.1<br>PFM 4-0702.3<br>PFM 4-0703   | Depth between the bottom of the SWM/BMP facility and the<br>seasonal high-water table (SHWT) or bedrock is shown. SHWT from<br>June to October is determined by a certified professional using<br>geomorphology. |       |    | *  |     |     |
|      |  | RESOURCE PROTECTION AREA (RPA)   |       | 1  |    |     |     |
| 103  | PFM 6-1701.3<br>112.1-8101.4.B(35)   | Site specific RPA boundary shown. Label references approved RPA delineation study number and approval date   |       |    | *  |     | 1   |
| 104  | 118-4-2  | WQIA with proper mitigation submitted or approved for water-   |       |    |    |     |     |
|      |  | dependent improvements (outfalls) or redevelopment within RPA  |       |    |    |     |     |
| 105  | 118-5-3  | An RPA Exemption request is submitted or approved and provided for trails, sidewalk, site amenities, public utilities within RPA   |       |    |    |     |     |
| 106  | 118-6-9<br>PFM 6-0303.3  | An RPA Exception request is submitted or approved and provided for SWM facilities or other uses within RPA   |       |    |    |     |     |

| LINE | CODE SECTION   | REQUIREMENT   | SHEET | OK | NO | N/A | FFX |
|------|--|---|-------|----|----|-----|-----|
|      |  | FLOODPLAIN (FP)   |       |    |    |     |     |
| 107  | PFM 6-0704.1   | Proposed structures do not adversely affect the existing 100-year floodplain elevation.   |       |    |    |     |     |
| 108  | PFM 6-1401.1<br>PFM 6-1405   | A floodplain study is submitted or approved. 100-year floodplain<br>limits are shown. "Floodplain and drainage easement" exists or is<br>proposed.  |       |    |    |     |     |
| 109  | 112.1-5105.2.A   | A Floodplain Use Determination (FPUD) request is submitted or<br>approved and provided for public utilities, roadway crossing or<br>outfall within floodplain   |       |    |    |     |     |
| 110  | 112.1-5105.4   | A Special Exception (SE) is submitted or approved for major fill or use that are not permitted within the floodplain  |       |    |    |     |     |
|      |  | SANITARY SEWER  | -     | -  |    |     |     |
| 111  | PFM 10-0102.5A(4) & (5)  | Vertical and horizontal separation shown between sanitary sewer main and waterlines and storm sewer lines   |       |    |    |     |     |
| 112  | PFM 10-0102.5A(7)<br>PFM 10-0102.5L.1<br>PFM 10-0102.5M  | Sanitary sewer pipe deeper than 18' is proposed to be DIP or PVC<br>DR 14.<br>Sanitary sewer lines crossing streams are proposed to be DIP.<br>Sanitary sewer lines in fill areas are proposed to be DIP. |       |    |    |     |     |
| 113  | PFM 10-0102.5B   | Sanitary sewer main is extended to the nearest property line of the last lot to be served and easements extended to a property line where adjoining areas must be served.                                 |       |    | *  |     |     |
| 114  | PFM 10-0102.5C   | Sanitary sewers are minimum 15' from all buildings and 5' from the loading plane of building foundations. Sanitary sewers are not located under retaining walls.  |       |    |    |     |     |
| 115  | PFM 10-0102.8D   | Sanitary sewer grade not less than 1% to terminal manhole   |       |    |    |     |     |
| 116  | PFM 10-0104.2F   | Sanitary sewer profiles are provided for all proposed sewers.<br>Sanitary profiles are on same sheet as plan  |       |    | *  |     |     |
| 117  | PFM 10-0104.2C   | Bearings and distances on centerlines of sanitary sewers shown  |       |    |    |     |     |
|      | PFM 10-104.2G  | Sewer sizes, manhole numbers and stationing shown on the plan<br>and repeated on the profile.   |       |    | *  |     |     |
| 119  | PFM 10-0104.2D   | Location of existing structures, houses, utility crossings, curbs,<br>property lines, railroad crossings, culverts and bridges shown on<br>plan view  |       |    |    |     |     |
| 120  | WPMD Policy  | Location of utility crossings shown on profile  |       |    |    |     |     |
|      |  | FAIRFAX WATER (FW)  |       |    |    |     |     |
| 121  | PFM 9-0102.2<br>PFM 9-0202.2C.3, 4, 5<br>112.1-8101.4.B(31)  | Location, size and type of proposed and existing water mains and fire hydrants shown and labeled  |       |    | *  |     |     |
| 122  | PFM 9-0102.3A  | Proposed tie-ins to existing water system shown   |       |    | *  |     |     |
| 123  | PFM 9-0102.3A<br>FW Policy   | Water main stationing on the plan and profile   |       |    | *  |     |     |
| 124  | PFM 9-0102.3B<br>FW Policy   | Water mains have 4' of cover unless otherwise noted. Proposed cover is labeled.   |       |    |    |     |     |
| 125  | FW Policy Cover is labeled.   PFM 9-0102.3D Plan and profiles of all utility crossings of water mains within the easements are shown.   Vtility crossings labeled, including all sanitary laterals, Call outs for minimum clearances are shown.   Water main crossings are shown on the storm and sanitary profiles. |   |       |    |    |     |     |
| 126  | PFM 9-0102.3D  | No permanent structures are shown within the public water supply easement   |       |    | *  |     |     |
| 127  | PFM 9-0102.3S  | Profile of all proposed public water mains included   |       |    |    |     |     |
| 128  | PFM 9-0102.3V  | Test holes shown where required   |       |    |    |     |     |
| 129  | Fire Marshal Policy  | Profile of all private fire lines are shown with min. 4' cover  |       |    |    |     |     |
| 120  | PFM 9-0102.3J  | All hydrant, water service, fire line and stub-out valves must be restrained  |       |    |    |     |     |

| LINE | CODE SECTION   | REQUIREMENT   | SHEET | OK | NO  | N/A | FFX |
|------|--|---|-------|----|-----|-----|-----|
|      |  | URBAN FORESTRY  |       |    |     |     |     |
| 131  | PFM 12-0204.3<br>PFM 12-0305.1A                                  | Tree protection is shown on demolition plan   |       |    |     |     |     |
| 132  | PFM 12-0304.1A   | Existing tree line for groups of trees are clearly shown with graphic key provided  |       |    |     |     |     |
| 133  | PFM 12-0309.2E   | Tree protection devices and treatments are shown and identified   |       |    |     |     |     |
| 134  | PFM 12-504.1B  | Proposed limits of clearing and grading is shown and labeled and  |       |    |     |     |     |
| 134  | PFM 2-0208.12  | clearing limits match among all site plan sheets  |       |    |     |     |     |
|      |  | MISCELLANEOUS   | r     | -  |     |     |     |
| 135  | 112.1-8101.4.B(2)  | All sheets have engineer's and/or surveyor's/landscape architect's seal and signature   |       |    | *   |     |     |
| 136  | PFM 2-0101.1   | All approved waivers are valid and shown on the plan, with waiver   |       |    |     |     |     |
|      | County Policy  | condition compliance narrative  |       |    |     |     |     |
| 137  | PFM 2-0106.1   | Proposed grading shown by contours and spot elevations  |       |    | *   |     |     |
| 138  | 112.1-8101.4.B(3)  | Plan is drawn to a scale of not less than $1'' = 50'$ . Match lines are   |       |    | *   |     |     |
| 150  | 112.1 0101.4.0(3)  | shown where sheets join.  |       |    |     |     |     |
| 139  | LDS Policy   | Plan is legible at the scale provided:<br>Screening is not too light. Labels do not overlap<br>Proposed improvements can be clearly differentiated from existing.<br>(For more detailed directions see Note-2)  |       |    | *   |     |     |
| 140  | LDS Policy   | Adequate information is provided on each sheet:<br>Storm sewer system, RPA, and FP limits, with labels are shown on<br>all applicable sheets (Existing conditions, Site, Grading, E&S, and<br>Landscape).<br>Storm, sanitary sewer and water lines are shown on the same sheet<br>with horizontal clearances clearly dimensioned.   |       |    | *   |     |     |
|      | 112.1-8101.4.B(6)  | North arrow referenced to Virginia Coordinate System (VCS 83) and   |       |    | ata |     |     |
| 141  | 101-2-5(c)(6)  | reference note is provided  |       |    | *   |     |     |
| 142  | 112.1-8101.4.B(6)<br>101-2-5(c)(6)                               | Two adjacent corners or two points with coordinate values are<br>shown on existing conditions, layout, and grading plan sheets.<br>Metes and bounds are provided around the site boundary.  |       |    |     |     |     |
| 143  | 112.1-8101.4.B(6)<br>101-2-5(c)(6)(b)                            | Vertical datum reference note is provided, and it refers to NGVD<br>1929  |       |    |     |     |     |
| 144  | 112.1-8101.4.B(10)<br>112.1-8101.4.B(11)<br>LDS Policy           | Contours are shown at maximum 2' intervals. Where existing slope<br>is less than 2%, additional spots or 1-foot contours are provided.<br>Sufficient number of elevation labels are shown on existing and<br>proposed contour lines.  |       |    |     |     |     |
| 145  | 112.1-8101.4.B(12)LDS<br>Policy                                  | Proposed easements are shown and identified as "proposed".<br>All existing easements are shown and labeled with deed book and<br>page numbers.<br>Easements are shown on all applicable sheets including E&S sheets.  |       |    | *   |     |     |
| 146  | 112.1-8101.4.B(12)   | Owners, zoning, and present use of all adjoining properties are shown   |       |    |     |     |     |
| 147  | 112.1-8101.4.B(19)<br>124-2.7.B.8.e                              | Sufficient existing condition information (i.e. topography,<br>structures, etc.) is shown beyond property boundaries, so impacts<br>on adjacent properties can be evaluated   |       |    |     |     |     |
| 148  | 112.1-8100.7.E(2)<br>PFM 8-0202.2D<br>PFM 8-0202.4<br>PFM 7-0306 | Trails or walkways are provided in accordance with the<br>Comprehensive Plan unless waiver request submitted or approved.<br>Adequate right of way is provided for trails within the right of way.<br>Public access easements are proposed for owner-maintained trails.<br>Trail easements are proposed for publicly maintained trails within<br>private property.<br>A profile of the proposed trail is included.<br>Trail shoulders are shown and are within the easement. Trail type<br>and typical section is provided. |       |    |     |     |     |

| LINE | CODE SECTION                     | REQUIREMENT   | SHEET | OK | NO | N/A | FFX |
|------|----------------------------------|---|-------|----|----|-----|-----|
| 149  | 112.1-8101.4.B(15)<br>LDS Policy | Location, type, size, and height of any fencing and retaining walls<br>are shown. Footing of wall is within construction limits. Adequate<br>space is provided between wall footing and limits of construction<br>for installation of perimeter controls. |       |    |    |     |     |
| 150  | 112.1-8101.4.B(17)               | Horizontal location of all proposed trails and vertical location of any trail that is proposed to exceed an 8% grade are shown  |       |    |    |     |     |
| 151  | PFM 2-0208.11                    | The location, elevation, and description of two benchmarks which<br>are properly correlated to the plan elevations are shown on the<br>plan   |       |    |    |     |     |
| 152  | PFM 2-0304.2                     | Horizontal and vertical location of existing transmission lines and pipelines and associated easements shown  |       |    |    |     |     |

## Notes:

## 1) Applicant's Response shown in "Compliance Method" Column in Proffer/Development Condition Compliance Matrix

- Describe how each proffer/development condition is addressed. All responses shall be specific to the project and demonstrate how each proffer/development condition is met (partially or completely).
- Do not fill in "Acknowledged". All acknowledgements happened at the time of proffer/development condition negotiations when the Applicant agreed with all proffers.
- Do not repeat the proffer in Compliance Method column. Instead, describe how the plan has addressed the requirements of the proffer/development condition partially or entirely.
- Provide separate compliance method for each subsection of each proffer/development condition.
- Do not use any "may" or "shall" in your compliance description. At this stage, all requirements should be either met, or non-applicable.
- Associated site plan # and sheet number should be listed in the correct column.

## 2) Readability

A readable plan is necessary for reviewers to conduct a thorough review and for site inspectors to enforce the approved plan during construction. Factors that diminish readability include, but are not limited to: overlapping lines, labels or information; insufficient distinction among line types or line weights; inaccurate or missing legend; heavy lines or shading that obscures underlying information; misplaced or missing leaders; lines or features without labels; scale too small to clearly depict all information; existing features indistinguishable from proposed work; and unreadable text (smaller than 0.1 inch, blurred, obscured by linework, overlapping text).

ESI Peer Reviewer: COMPLETE NEXT PAGE for timely distribution to agencies that are not involved in the normal review function.

|            | Public Improvement Plan Routing Slip  |          |
|------------|---|----------|
|            | From: ESI PEER REVIEW   |          |
|            | To: Site Application Center   |          |
| Plan Name: | Plan Number:  | Date:    |
| •          | uted to the Agencies indicated (besides standard distrib<br>or highlight reasons for additional reviews needed and re | <b>c</b> |

AGENCY **PROFFER/CONDITION NUMBER** YES N/A Fairfax County Park Authority

| Viici   |  |  |
|---|--|--|
| Other   |  |  |
| Other   |  |  |
| problem soils, steep slopes   |  |  |
| Pohick Watershed  |  |  |
| FCPS Project  |  |  |
| Fairfax Water   |  |  |
| FCPA project  |  |  |
| DPWES project   |  |  |
| Northern Virginia Soil and Water Conservation District  |  |  |
| Septic/Well/Public pool   |  |  |
| Health Department   |  |  |
| BOS Directed BOS review   |  |  |
| Board of Supervisors  |  |  |
| BOS Directed PC Review  |  |  |
| Planning Commission   |  |  |
| Site is on Inventory of Historic Sites  |  |  |
| Historic Overlay District   |  |  |
| Proffer/Condition/Directed Review by BOS  |  |  |
| Department of Planning and Development Heritage Resources   |  |  |
| Historic Overlay District   |  |  |
| Development of property containing a floodplain/RPA   |  |  |
| Countywide trail construction, trail connection to parkland   |  |  |
| maps 17-1, 17-2, 16-3, 16-4, 17-3, 17-4, 18-3, 26-1, 26-2 or 27-1)  |  |  |
| Reston TSAs (Herndon, Reston Town Center, Wiehle-Reston East: Tax   |  |  |
| Suburban Centers, Reston, Tysons)   |  |  |
| Planned Mixed Use development: PDC, PRM, PRC, PDH, PTC<br>(Transit Station Areas, Community Business Centers, |  |  |
| Storm outfall directed onto parkland  |  |  |
| Park- or archeological work-related proffers/conditions   |  |  |
| Site is Adjacent to FCPA property   |  |  |
| Dedication of land to FCPA or for park purposes   |  |  |
| Work on FCPA property   |  |  |
| Proffer requiring Park Authority review   |  |  |
|   |  |  |