



## **EROSION & STORMWATER MANAGEMENT (ESM) HOUSE GRADING PLAN PACKAGE**

### **TO THE APPLICANT:**

An Erosion and Stormwater Management (ESM) Plan is required for land disturbing activities exceeding 2,500 square feet in the City of Fairfax. Land disturbing activity means any land change that may result in soil erosion from water or wind and the movement of sediments into state waters or onto lands in the Commonwealth, including, but not limited to, clearing, grading, excavating, transporting, and filling of land. An ESM Plan for single family house construction is comprised of an erosion and sediment control plan and stormwater quality improvements documented utilizing the Virginia Runoff Reduction Method (VRRM).

House Grading Plans should be prepared by a licensed professional and demonstrate compliance with the City's environmental and zoning regulations. These grading plans must refer to the VESMP Stormwater plan checklist for stormwater quality improvement plan requirements and not use off-site nutrient credits, which the City does not accept. Projects associated with individual single-family residential construction are not required to address the Stormwater Pollution Prevention Plan (SWPPP) and Pollution Prevention Plan content requirements if the total land disturbance is less than one acre. The ESM plan review process described below is based on this situation.

The ESM plan review process is initiated after the applicant and/or his engineer has attended a pre-submission meeting with City staff and by the applicant's submission of the application package, plans, and review fee. The submitted ESM plan is reviewed by City staff for compliance with all development and use standards. Staff will determine the completeness of the submission within 5 business days and, if complete, provide a written comment letter for corrections by the applicant and/or engineer within 45 days.

For each resubmission of the plan, a Comment Response Letter must be included with the corrected plan. If the plan meets Code compliance, staff will indicate that there are no outstanding comments. There are currently no resubmission fees for subsequent reviews.

The grading permit application, Best Management Practices (BMP) Agreement, Erosion And Siltation Agreement, and all other development bonds, agreements, and fees must be submitted by the time of the final plan. In lieu of submitting both a performance bond and a conservation deposit, the City allows the applicant to include performance items (typically BMP improvements and tree planting) along with the erosion control items on the Conservation Estimate portion of the surety estimate form along with a completed City of Fairfax Siltation Agreement. The ESM plan may only be approved by the Zoning Administrator and released to the applicant along with a Grading Permit when the plan is technically correct, all bonding and fee requirements are met, and the BMP agreement and associated location sketch are recorded in the County Land Records. Building permits can be released once bonding is in place.

Upon completion of construction, a final house location survey must be submitted and final inspections must be scheduled. When the final inspections are complete and all comments have been satisfactorily addressed, the Residential Use & Occupancy Permit will be issued and the Conservation Deposit released.

The attached explanatory materials regarding the ESM Plan review process will assist in the preparation of your plan. If you have questions pertaining to the process, please contact the Community Development & Planning Office - Zoning Division, 703-385-7820.

*The City of Fairfax is committed to the letter and spirit of the Americans with Disabilities Act. To request reasonable accommodation for any type of disability, please call 703-385-7930, (TTY 711)*

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## IMPORTANT PHONE NUMBERS

|                               |              |
|-------------------------------|--------------|
| Facilities Inspector          | 703-385-7828 |
| Code Administration           | 703-385-7830 |
| Health Department             | 703-246-2541 |
| Planning Director             | 703-385-7930 |
| Public Works Director         | 703-385-7810 |
| Street Superintendent         | 703-385-7893 |
| Zoning Administrator          | 703-385-7820 |
| Board of Architectural Review | 703-385-7930 |

**PLEASE NOTE:** Failure to obtain City approval for changes to an approved ESM Plan or to install improvements and facilities according to the City approved plan could result in civil penalty fines and other legal remedies available to the City.



## City of Fairfax Electronic File Submission Standards

This document includes file preparation standards for electronic drawings and documents submitted to the City of Fairfax as part of any application for building or land development. Please read the standards below carefully as improperly formatted plans will delay review and may be rejected. For questions on compliance with these standards, such as for small home improvement projects, please contact staff (703-385-7830 for building and trade permits or 703-385-7820 for site plans and zoning permits).

**All documents submitted electronically must be Portable Document Format (PDF) in accordance with the following:**

- Exporting files from other software directly to PDF is preferred (as opposed to printing and scanning)
- 400MB file size or smaller
- No ZIP files
- No PDF packages, binders, or portfolios (instead “combine files” as a single PDF)
- True Type fonts preferred (standard format fonts for MacOS and Microsoft Windows, such as Times New Roman or Arial - scalable to any size and can be printed at any resolution)
- Files must be unlocked or unprotected

**Additionally, for plans and drawings:**

- Vector format preferred (typical format for PDFs - lines adjust in size without losing resolution)
- No multiple layers (layers and mark-ups must be merged or flattened)
- Linework must be black and white (colors may be used for photos, renderings, or mark-up purposes only)
- Orientation (landscape or portrait) must remain the same throughout a document
- Scale must be accurate (any images not to scale must be labeled as such)
- Sheet size must remain the same throughout a document (standard ANSI or Arch sizes preferred)
  - Plats must have a sheet size between 8.5 inches by 11 inches (minimum) and 18 inches by 24 inches (maximum), such as standard letter size (8.5” x 11”), legal size (8.5” x 14”), or tabloid (11” x 17”)
- Sheets must be clearly labeled by content and PDFs should be bookmarked to distinguish sections of the document
- Electronic signatures and seals accepted, but do not “certify” (certifying locks the document)
  - Electronic signatures and seals must be in accordance requirements of the Virginia Department of Professional and Occupational Regulation (DPOR)
- (1) PDF plan set may include multiple disciplines (e.g. Architectural, Plumbing, Electrical, etc.)
  - Supporting documents should be submitted in separate PDFs from plans
- Files names should be concise and describe the contents of the file document by Address, abbreviated Plan Type (Bld or Site), and Submission (Sub) Number - Permit Number should be added as applicable following the initial submission
  - Example: 10455 Armstrong St Bld Sub1
  - Example: 10455 Armstrong St Bld Sub2 BLD23-00123

*\*\*Please be advised that CAD/dwg and dxf files will be required to accompany a site plan signature submission\*\**

| CITY OF FAIRFAX - HOUSE GRADING (ESM) PLAN INTAKE CHECKLIST                                                    |                                                                                  |          |                 |                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ✓                                                                                                              | Submittal                                                                        | Quantity | Format          | Notes                                                                                                                                                                                                                                                                                                                       |
| THE FOLLOWING ITEMS ARE REQUIRED AT INITIAL SUBMISSION                                                         |                                                                                  |          |                 |                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                | ESM Application & Fee Calculations                                               | 1        | PDF             | All required information must be completed and accurate. Note, all fees based on 'acreage or fraction thereof' must be correct (i.e. 1.4 acres = 1 acre + 1 fraction or an acre = 2 "acres or fraction thereof").                                                                                                           |
|                                                                                                                | <i>ESM Application Fee(s)</i>                                                    |          |                 | Must include: fees calculated on the ESM Fee Calc. Sheet, WQIA Fee, VESMP fees. Where applicable, fees must include RPA and Floodplain Fees.                                                                                                                                                                                |
|                                                                                                                | Agent Authorization Statement (1 per contract purchaser & designer professional) | 1        | PDF             | All required information must be completed and accurate.                                                                                                                                                                                                                                                                    |
|                                                                                                                | ESM Plan (each submission)                                                       | 1        | PDF             | Must include all sheets in a single PDF.                                                                                                                                                                                                                                                                                    |
|                                                                                                                | Site Plan Checklist                                                              | 1        | PDF             | All items must be acknowledged by the engineer. Any items that do not apply must be explained in the notes section.                                                                                                                                                                                                         |
|                                                                                                                | WQIA Application                                                                 | 1        | PDF             | All required information must be completed and accurate.                                                                                                                                                                                                                                                                    |
|                                                                                                                | Water Quality Impact Assessment                                                  | 1        | PDF             | Unless applicant is pursuing a waiver. Must comply with §4.18.8.                                                                                                                                                                                                                                                            |
|                                                                                                                | WQIA Waiver Request                                                              | 1        | PDF             | Where an applicant qualifies. Must comply with §4.18.11.                                                                                                                                                                                                                                                                    |
|                                                                                                                | <i>WQIA Application Fee</i>                                                      |          |                 | (see <i>ESM Application Fee(s)</i> )                                                                                                                                                                                                                                                                                        |
|                                                                                                                | RPA Study Application (if the location of RPA will be altered or challenged)     | 1        | PDF             | All required information must be completed and accurate.                                                                                                                                                                                                                                                                    |
|                                                                                                                | RPA Study (if location of RPA will be altered or challenged)                     | 1        | PDF             | Must comply with §4.18.6 and §6.13.2.B                                                                                                                                                                                                                                                                                      |
|                                                                                                                | <i>RPA Study Application Fee (if location of RPA will be altered)</i>            |          |                 | (see <i>ESM Application Fee(s)</i> )                                                                                                                                                                                                                                                                                        |
|                                                                                                                | Floodplain Permit Application (if property includes floodplain)                  | 1        | PDF             | All required information must be completed and accurate.                                                                                                                                                                                                                                                                    |
|                                                                                                                | Floodplain Study (if property includes work in the floodplain)                   | 1        | PDF             | Must comply with §6.11.5                                                                                                                                                                                                                                                                                                    |
|                                                                                                                | <i>Floodplain Application Fee (if Floodplain exists on property)</i>             |          |                 | (see <i>ESM Application Fee(s)</i> )                                                                                                                                                                                                                                                                                        |
|                                                                                                                | BFE Certificate (if location of floodplain or base flood elevation will change)  | 1        | PDF & Paper     | As required by FEMA ( <a href="https://www.fema.gov/flood-maps/change-your-flood-zone/lomr-clomr">https://www.fema.gov/flood-maps/change-your-flood-zone/lomr-clomr</a> ).                                                                                                                                                  |
|                                                                                                                | VSMP Application                                                                 | 1        | PDF             | All required information must be completed and accurate.                                                                                                                                                                                                                                                                    |
|                                                                                                                | VSMP Checklist                                                                   | 1        | PDF             | All items must be acknowledged by the engineer.                                                                                                                                                                                                                                                                             |
|                                                                                                                | SWPPP (for non-single-family development)                                        | 1        | PDF             | Consistent with DEQ standards                                                                                                                                                                                                                                                                                               |
|                                                                                                                | BMP Agreement                                                                    | 1        | PDF & Paper     | Initial submission may be accepted in draft PDF. An original paper with original signatures is required for execution and recordation in the land records, prior to plan release.                                                                                                                                           |
|                                                                                                                | <i>VSMP Application Fee</i>                                                      |          |                 | (see <i>ESM Application Fee(s)</i> )                                                                                                                                                                                                                                                                                        |
| THE FOLLOWING ITEMS ARE NOT REQUIRED AT INITIAL SUBMISSION, BUT <u>MUST</u> BE SUBMITTED UPON REQUEST BY STAFF |                                                                                  |          |                 |                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                | Plat Application (where applicable)                                              | 1        | PDF             | All required information must be completed and accurate.                                                                                                                                                                                                                                                                    |
|                                                                                                                | <i>Plat Application Fee</i>                                                      |          |                 | Invoiced separately, unless submitted with initial submission.                                                                                                                                                                                                                                                              |
|                                                                                                                | Plat of Easement/Dedication/etc.                                                 | 1        | PDF             | A draft (PDF) may be submitted for initial review of content and form. A PDF copy of the final is also required.                                                                                                                                                                                                            |
|                                                                                                                | Plat of Easement/Dedication/etc. (Signature submission)                          | 2        | Paper           | One of the final versions must have original signatures. The others may be copies of the original. Once executed a copy with be returned to applicant for their records.                                                                                                                                                    |
|                                                                                                                | Deed of Easement/Dedication/etc.                                                 | 1        | PDF             | A draft (PDF) may be submitted for initial review of content and form. A PDF copy of the final is also required.                                                                                                                                                                                                            |
|                                                                                                                | Deed of Easement/Dedication/etc. (Signature submission)                          | 2        | Paper           | One of the final versions must have original signatures. The others may be copies of the original. Once executed a copy with be returned to applicant for their records.                                                                                                                                                    |
|                                                                                                                | Responsible Land Disturber Certificate                                           | 1        | PDF             | Per DEQ standards                                                                                                                                                                                                                                                                                                           |
|                                                                                                                | Grading, Filling of Excavating Permit Application                                | 1        | PDF             | All required information must be completed and accurate.                                                                                                                                                                                                                                                                    |
|                                                                                                                | Surety Value Estimate                                                            | 1        | PDF             | Available for download as a spreadsheet (*.xls). All required items must be listed under "Conservation Deposit" See Bonding Information Package ( <a href="https://www.fairfaxva.gov/home/showpublisheddocument/7897/638483561849570000">https://www.fairfaxva.gov/home/showpublisheddocument/7897/638483561849570000</a> ) |
|                                                                                                                | Siltation Agreement                                                              | 1        | Paper           | See Bonding Information Package ( <a href="https://www.fairfaxva.gov/home/showpublisheddocument/7897/638483561849570000">https://www.fairfaxva.gov/home/showpublisheddocument/7897/638483561849570000</a> ). Original documents with all signatures required.                                                               |
|                                                                                                                | Siltation Bond Instrument (Letter of Credit or cash escrow only)                 | 1        | Paper           | See Bonding Information Package ( <a href="https://www.fairfaxva.gov/home/showpublisheddocument/7897/638483561849570000">https://www.fairfaxva.gov/home/showpublisheddocument/7897/638483561849570000</a> ). Original documents with all signatures required.                                                               |
|                                                                                                                | <i>Surety Review Fees (per bond)</i>                                             |          |                 | Based on bond amount. Due with submission of each bond.                                                                                                                                                                                                                                                                     |
|                                                                                                                | GIS File of signature plan & list of layers                                      | 1        | DXF + Text File | GIS file may be submitted at initial submission if subdivision is proposed, for addressing purposes. A final GIS will be required prior to plan approval.                                                                                                                                                                   |

Visit the Community Development and Planning website for formatting standards (<https://www.fairfaxva.gov/government/community-development-planning/notifications-to-industry>).

# APPLICANT'S GUIDE FOR EROSION AND STORMWATER MANAGEMENT REVIEW AND CONSTRUCTION PROCESS

## STAGE I - PRE-SUBMISSION

- All applicants must contact the Deputy Zoning Administrator at 703-385-7820 prior to submission of the ESM Plan Package to discuss the proposed scope and filing requirements. **Projects are not accepted for review without the pre-submission contact.**
- Where applicable, any Special Exception, Variance and Special Use Permit approvals by City Council or the Board of Zoning Appeals must be obtained prior to ESM Plan submission. The specific application requirements, forms, and fees for these approvals are available from the City's website or from Zoning Division staff.

## STAGE II - APPLICATION SUBMISSION

- Applications for ESM Plan review must contain the following items before they processed for review:
  - A. ESM Plan (Single-file PDF)
  - B. ESM Application (PDF)
  - C. Site Plan Checklist (PDF)
  - D. Agent Authorization Statement (unless applicant is homeowner) (PDF)
  - E. Water Quality Impact Assessment Application
  - F. Written WQIA or Waiver Request Report (PDF)
  - G. VESMP Application (PDF)
  - H. VESMP Checklist (PDF)
  - I. BMP Agreement w/ location diagram (PDF, with physical submittals at final submission)

For up-to-date instructions on the plan submission process, visit the City's website or from Zoning Division staff. A physical (non-electronic) document must be submitted to: *City of Fairfax, CDP - Zoning Division, 10455 Armstrong St, Room 207, Fairfax, VA 22030.*

## STAGE III - EROSION AND STORMWATER MANAGEMENT REVIEW

- ESM plans are circulated to the plan review staff in the following City departments: Community Development and Planning, Public Works, Building Code Administration, Real Estate, and any other department that may need to provide staff review comments. Board of Architectural Review (BAR) approval is required for single-family residences in any historic overlay district and the Old Town Fairfax Transition Overlay District. Review comments are compiled by the Site Plan Coordinator and sent to the applicant's representative and design professional for resolution.
- Associated documents (e.g., agreements, permit applications, development bonds, and their fees) will be circulated for review and approval by appropriate authorities when deemed complete. The applicant's response (in letter format to the Project Planner) to staff's comments must accompany all plan revisions.
- An ESM Plan may only be approved and signed by the Zoning Administrator after there are no outstanding staff comments and the required siltation agreement has been fully executed. However, an approved ESM Plan will not be released until all required submittal and plan review tasks have been completed.
- All other required permits, approvals, and/or agreements (i.e., Grading Permit, Floodplain Permit, and Best Management Practice Agreement) and any associated fees may be accepted through the resubmission process.
- The applicant will need to record the approved Best Management Practice Agreement (including a drawing showing the location of the BMP facilities) in the County Land Records prior to the release of an approved ESM plan.
- The developer is required to apply for a Building & Zoning Permit through the City's Permit Portal for proposed building and permanent structures. Building Plans are reviewed by the Office of Building Code Administration for compliance with state building codes, as well as the Zoning Division, for compliance with the zoning ordinance and the final ESM plan. **No proposed structure may be erected until a Building and Zoning Permit are issued.** The

Building Permit inspection process will result in a Certificate of Occupancy upon acceptably completing work. The Zoning Permit will result in a Residential Use Permit upon acceptably completing work. More information about these permits can be found on our website.

#### STAGE IV - CONSTRUCTION

- A pre-construction meeting is required before ANY activity takes place on-site. It is recommended that a preconstruction meeting be scheduled at least one (1) week in advance of planned start of any site activity.
- Staff will provide the applicant with a pre-construction meeting, which they can accept or reschedule.
- Written notices providing information to residents in the affected area (in most cases, one block from the construction activity) must be delivered one week before the beginning of construction activity and three days prior to any disturbance of utilities. The Facilities Inspector must be copied on all notices and a list of addresses that received notices must be provided.
- Following a preconstruction meeting, limited clearing is allowed for the installation of erosion and sediment controls.
- Inspection of installed erosion and sediment controls and construction entrance is required before approval is given to begin land-clearing activities.
- Construction noise is allowed only between the hours of 7:00 AM and 6:00 PM on weekdays and 8:30 AM and 5:00 PM on Saturdays ONLY. No construction noise is allowed during Sunday, evening/night hours, and public holidays.
- Work hours in the Right-of-Way are from 9:00 AM to 3:00 PM on weekdays or as outlined in the approved ROW/Easement Permit.
- Right-of-Way and On-Site Construction Inspection Fees are billed at the beginning of the project. A Right-of-Way/Easement Permit is required prior to starting work in any City Right-of-Way or Easement. Each road cut requires a separate traffic control plan for the particular work zone. Payment must be received for Right-of-Way and On-Site Construction Inspection Fees before a ROW/Easement Permit will be issued.
- All site construction is monitored for adherence to requirements by the Facilities Inspector until the project is complete. Building construction is monitored by the Building Inspector from Code Administration. **If the applicant has received a yellow Height Alert Card, a height certification for the top of the foundation wall is required on a wall check from the builder, which must be approved by the City prior to construction of the first floor.**

#### STAGE V - BOND RELEASE

- Upon completion of construction, a final house location survey must be submitted and inspections must be scheduled through the permit portal.
- When the final inspections are complete and all comments have been satisfactorily addressed, the Residential Use & Occupancy Permit will be issued.
- Once the Residential Use & Occupancy Permit has been issued, staff will start the release process for the Conservation Deposit. It generally takes around another week for the Conservation Deposit to be returned.

#### STAGE VI - CHANGES TO APPROVED ESM PLANS

- Substantial changes to an approved ESM Plan may require the filing of a new ESM Plan.
- **Failure to obtain City approval of any changes or to install improvements and facilities according to the City-approved plan may result in civil penalty fines and other legal remedies available to the City.**



Application #: \_\_\_\_\_

## **EROSION & STORMWATER MANAGEMENT (ESM) APPLICATION**

### **1. JOB LOCATION INFORMATION:**

Job Location Address \_\_\_\_\_

Project Name \_\_\_\_\_ Land Disturbance Area (0.00 Acre): \_\_\_\_\_

Tax Map # \_\_\_\_\_ Parcel/Lot Area (0.00 Acre): \_\_\_\_\_

### **2. APPLICANT INFORMATION:**

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

Signature (REQUIRED) \_\_\_\_\_ Date \_\_\_\_\_

### **3. PROPERTY OWNER INFORMATION: (Same as Applicant ☐ )**

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

Signature (REQUIRED) \_\_\_\_\_ Date \_\_\_\_\_

### **4. ENGINEER, SURVEYOR or LANDSCAPE ARCHITECT: (Same as Applicant ☐ )**

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

### **5. FEES**

#### **Erosion & Sediment Review Fees**

- ☐ \$575.00 up to ½ acre of disturbed land, **OR**  
☐ Base fee of \$575.00 plus \$105.00 per acre or fraction thereof

#### **Other Fees:**

Water Quality Impact Assessment: .....\$115.00  
VESMP Application .....\$290.00 (< 5 Acre)  
Tree Removal Permit (when applicable) .....\$20.00  
RPA delineation/determination (when applicable): .....\$290.00  
Floodplain Permit (when applicable) .....\$575.00

Prepared by: \_\_\_\_\_ Calculated Fee Total: \_\_\_\_\_

#### **Inspection Fees (to be assessed during construction):**

Standard Inspection: .....\$150.00 Each  
Reinspection following violation: .....\$250.00 Each  
Stop work order: .....\$350.00 Each  
After-Hours Inspection: .....\$260.00/hour + \$65.00/ each additional hour  
Overtime Related to Inspections: .....\$150.00/hour  
Rescheduling fee: .....\$50.00

*The City of Fairfax is committed to the letter and spirit of the Americans with Disabilities Act. To request reasonable accommodation for any type of disability, please call 703-385-7930, (TTY 711)*

## AGENT AUTHORIZATION LETTER

TO WHOM IT MAY CONCERN:

I/We, \_\_\_\_\_, the undersigned title owner(s) of the property  
identified below do hereby authorize \_\_\_\_\_  
of \_\_\_\_\_,  
to act as my/our agent(s) in the furtherance of an application for a \_\_\_\_\_  
\_\_\_\_\_,  
on my/our property located at: \_\_\_\_\_  
Tax Map No: \_\_\_\_\_,

Thank you in advance for your cooperation.

Date: \_\_\_\_\_ By: \_\_\_\_\_

COMMONWEALTH/STATE OF: \_\_\_\_\_

CITY/COUNTY: \_\_\_\_\_, TO WIT: \_\_\_\_\_

The forgoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_,  
by \_\_\_\_\_.

AFFIX NOTARY SEAL/ STAMP

\_\_\_\_\_  
Notary Public (Signature)

Notary Registration No: \_\_\_\_\_

*All title owners must sign in presence of notary. If there is more than one owner, provide one letter per owner.*



Application #: \_\_\_\_\_

## **WATER QUALITY IMPACT ASSESSMENT (WQIA) APPLICATION**

NON-REFUNDABLE FEE: ☐ Single Family Residential \$ 115.00 / ☐ Other: \$ 350.00

### **1. PROJECT LOCATION INFORMATION:**

Job Location Address \_\_\_\_\_

Project Name \_\_\_\_\_ Land Disturbance Area (0.00 Acre): \_\_\_\_\_

Tax Map # \_\_\_\_\_ Parcel/Lot Area (0.00 Acre): \_\_\_\_\_

### **2. APPLICANT INFORMATION:**

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

Signature (REQUIRED) \_\_\_\_\_ Date \_\_\_\_\_

### **3. PROPERTY OWNER INFORMATION: (Same as Applicant ☐ )**

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

### **4. ENGINEER or SURVEYOR: (Same as Applicant ☐ )**

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

### **5. WETLANDS EXPERT: (Same as Applicant ☐ ) (Same as Design Professional ☐ )**

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

-continued on next page-

The Water Quality Impact Assessment is conducted to identify the impacts of proposed development on water quality and lands within resource protection and resource management areas; to ensure that where development does take place it is located on those portions of a site and in a manner that is least disruptive to the natural functions of the land and to specify mitigation measures to address water quality protection.

The applicant shall submit a WQIA in accordance with §110-4.18.8.B for:

1. Any proposed land disturbance, development, or redevelopment within a resource protection area, including any buffer area modification or reduction as provided for in §110-4.18.7; or
2. Any proposed development or redevelopment in the resource management area that may significantly impact water quality due to the unique characteristics of the site or intensity of the proposed use or development, as determined by the Zoning Administrator in accordance with §110-4.18 and §110-4.18.4.D.

## **I. DEVELOPMENT CHARACTERISTICS**

*You must submit either a minor or major WQIA for your project unless you receive a waiver (see section II). The below conditions will determine whether you submit a major or minor WQIA.*

Submit a **Minor WQIA** if you answer “Yes” to either of these development characteristics (§110- 4.18.8.C)

☐ 5,000 square feet of disturbance or less

☐ Encroachment onto the landward 50 feet of the 100-foot buffer area (**Go to section III - Minor WQIA Requirements**)

Submit a **Major WQIA** if you answer “Yes” to any of these development characteristics (§110- 4.18.8.D)

☐ Over 5,000 square feet of disturbance

☐ Encroachment onto the seaward 50 feet of the 100-foot RPA buffer area

☐ Location in the resource management area and is deemed necessary by the Zoning Administrator. (**Go to section IV - Major WQIA Requirements**)

## **II. WQIA WAIVERS**

☐ Check here if you plan to submit a WQIA waiver request.

To submit a WQIA waiver request, attach a report detailing how the proposed development or redevelopment does not significantly impact water quality.

## **III. MINOR WQIA REQUIREMENTS (§110-4.18.8.C)**

The minor WQIA calculations will demonstrate that the remaining buffer area and best management practices will result in removal of no less than 75 percent of sediments and 40 percent of nutrients from post development stormwater runoff.

Requirements for a minor WQIA scaled site drawing include:

- 1) Location of the components of any RPA, including the 100 foot buffer area;
- 2) Location and nature of proposed improvements, including:
  - a. Type of paving material;
  - b. Areas of clearing or grading;
  - c. Location of any structures, drives, or other impervious cover; and
  - d. Sewage disposal systems or reserve drain field sites;

- 3) Type and location of proposed best management practices to meet the required general performance standards specified in §110-4.18.7;
- 4) Location, size, and condition of all existing trees five inches or greater in diameter measured at standard height to be impacted to meet the requirement of §6.10 and in accordance with §4.5.9.D.1. Existing trees to be preserved shall be indicated on the plan, including any necessary tree protection measures. Mature trees shall be protected during development and may only be removed where necessary, including to provide for the proposed use or development, subject to approval by the Zoning Administrator as required by §6.10.
- 5) Location, type, and number of replacement vegetation to restore the existing buffer in a manner that provides for mitigation of removed mature trees and maximizes buffer function.
- 6) Certification of all required information as complete and accurate by a Class IIIB certified land surveyor and professional wetlands delineator.

#### **IV. Major WQIA Requirements (§110-4.18.8.D)**

Requirements for a major WQIA include:

- 1) All of the information required in a minor WQIA (Section III above);
- 2) A hydrogeological element that describes existing topography, estimates of soils characteristics and potential for erosion, hydrology of the area, impacts on wetlands and streams, proposed mitigation measures, and a listing of requisite permits with permit or application status;
- 3) A tree conservation plan that identifies existing trees to be preserved or removed to meet the requirements of §6.10 and in accordance with §4.5.9.D.1; limits of clearing and grading; and tree protection measures for existing trees to remain;
- 4) A landscape plan that includes canopy trees, understory trees, shrubs, and groundcover plant types, using native species and in accordance with §4.5.9, to restore the existing buffer in a manner that provides for mitigation of removed mature trees and maximizes buffer function;
- 5) Such other measures as deemed necessary by the Zoning Administrator to ensure the impact to water quality can be accurately predicted;
- 6) Certification of all required information as complete and accurate by a Class IIIB certified land surveyor and professional wetlands delineator.

#### **V. CLIMATE CHANGE AND SEA LEVEL RISE ASSESSMENT (§110-4.18.9)**

- 1) Requirements include an impact assessment for any proposed land development in the Resource Protection Area that shall
  - a. Be based upon a potential impact range of 30 years or the lifespan of the project if less than 30 years;
  - b. Utilize a model or forecast developed by or on behalf of the Commonwealth;
  - c. Identify potential impacts:
    - (1) From projected sea level rise using the 2017 National Oceanic and Atmospheric Administration (NOAA) Intermediate-High scenario projection curve, or any subsequently updated version thereof, on the project site;
    - (2) From storm surge based upon the most updated NOAA hydrodynamic Sea, Lake, and Overland Surges from Hurricanes model on the project site; and
    - (3) From flooding based upon the most updated Special Flood Hazard Area and the Limit of Moderate Wave Action on the project site. Such assessment of flooding should be in conjunction with the requirements and application of floodplain management requirements and programs.
  - d. Assess the potential impacts in light of the proposed land development on buffer function including loss of riparian buffer vegetation and vegetation migration; water migration; as well as the potential impacts resulting in additional future land disturbance or development in the Resource Protection Area connected to the proposed land development.
  - e. Identify conditions, alterations, or adaptation measures for the proposed land development to address these potential impacts as necessary and appropriate based upon site conditions; nature, type, and size of proposed land development, including whether such proposed land development is in an Intensely Developed Area overlay; extent of

- potential impacts, and the necessity to minimize future land disturbance.
- 2) Based on the results of the assessment, the plan shall include adaptation measures that are
    - a. Nature-based solution adaptation measure that uses environmental processes, natural systems, or natural features, is appropriate for site conditions, and is:
      - (1) Best Management Practice approved by the Chesapeake Bay Program Partnership;
      - (2) An approved Virginia Stormwater Best Management Practice listed in the Virginia Stormwater Best Management Practice Clearinghouse;
      - (3) An approved Shoreline Protection Strategy in accordance with the Tidal Wetlands Guidelines as determined by the Virginia Marine Resources Commission; or
      - (4) A project that is an eligible activity for funding by the Virginia Community Flood Preparedness Fund as determined by the Virginia Department of Conservation and Recreation.
    - b. Be designed, installed, and maintained in accordance with the applicable adaptation measure specifications in accordance with the type of adaptation measure identified.
    - c. Allow for the use of fill only under the following conditions:
      - (1) The grading and slope created by the use of fill shall be no greater than necessary based upon the project specifications and implemented in a manner that minimizes the impact of runoff;
      - (2) The fill must have the necessary biogeochemical characteristics, including sufficient organic content, to support the growth of vegetation and adequate permeability to allow infiltration consistent with the project specifications;
      - (3) The use of fill shall not enhance stormwater runoff from the Resource Protection Area, and any lateral flow onto adjacent properties shall be controlled;
      - (4) Any impacts on the management of stormwater upland of the Resource Protection Area created by the use of fill shall be mitigated as necessary;
      - (5) The use of fill shall not negatively impact septic systems and drain fields; and
      - (6) The use of fill shall be consistent with any applicable federal or state law, including floodplain management requirements in 44 CFR 60.
    - d. Maximize preservation of existing natural vegetation including mature trees and minimize land disturbance consistent with the adaptation measure specifications.
    - e. Comply with all federal, state, and local requirements, including any required permits and conditions.
    - f. Nothing in this article shall be construed to authorize approval or allowance of an adaptation measure in contravention of floodplain management requirements, including the National Flood Insurance Program and established floodplain ordinances, or construed to require an adaptation measure in contravention of participation in the National Flood Insurance Program Community Rating System.
  - 3) Any activity in the Resource Protection Area impacting wetlands shall be consistent with Chapter 13 Title 28.2, Code of Virginia, and the accompanying Tidal Wetlands Guidelines which provide for “minimum standards for the protection and conservation of wetlands,” and “ensure protection of shorelines and sensitive coastal habitat from sea level rise and coastal hazard.” Shoreline management and alteration projects should be coordinated to address the requirements of the most updated Tidal Wetlands Guidelines in conjunction with the requirements of this section.
  - 4) The Zoning Administrator may exempt a living shoreline activity from additional performance criteria requirements, including a Water Quality Impact Assessment if the project minimizes land disturbance, maintains, or establishes a vegetative buffer inland of the living shoreline, complies with the fill conditions, and receives approval from the Virginia Marine Resources Commission or the local wetlands board.
  - 5) No exception shall be granted if the assessment of climate change and sea level rise has not occurred or the proposed adaptation measure allows for the use of fill in a Resource Protection Area in contravention of the requirements of §4.18.9.B.3(c).

-continued on next page-

**VI. EVALUATION PROCEDURE (§110-4.18.8.F)****Minor WQIA**

*The Zoning Administrator shall determine if any proposed modification or reduction to the buffer area is consistent with the provisions of this division and make a finding based upon the following criteria:*

| <b>4.18.8.F.1</b> | <b>Minor WQIA Criteria</b>                                                                                                                                                                                      | <b>Satisfied (Y/N)</b> |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>a.</b>         | The proposed encroachment is necessary and there is no other location on site to place improvements without disturbing the buffer area.                                                                         |                        |
| <b>b.</b>         | The impervious surface is minimized.                                                                                                                                                                            |                        |
| <b>c.</b>         | The proposed best management practices, where required, achieve the requisite reductions in pollutant loadings.                                                                                                 |                        |
| <b>d.</b>         | The development, as proposed, meets the purpose and intent of §110-4.18                                                                                                                                         |                        |
| <b>e.</b>         | The cumulative impact of the proposed development, when considered in relation to other development in the vicinity, both existing and proposed, will not result in a significant degradation of water quality. |                        |
| <b>f.</b>         | Any other information deemed necessary by the Zoning Administrator.                                                                                                                                             |                        |

**Major WQIA**

*The Zoning Administrator shall determine if the proposed development is consistent with the purpose and intent of this division and make a finding based upon the following criteria:*

| <b>4.18.8.F.2</b> | <b>Major Water Quality Criteria</b>                                                                                                                                                                             | <b>Satisfied (Y/N)</b> |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>a.</b>         | The disturbance of any wetlands is minimized.                                                                                                                                                                   |                        |
| <b>b.</b>         | The development will not result in significant disruption of the hydrology of the site.                                                                                                                         |                        |
| <b>c.</b>         | The development will not result in significant degradation to aquatic life.                                                                                                                                     |                        |
| <b>d.</b>         | The development will not result in unnecessary destruction of plant materials on site and will prioritize the protection of mature trees in the RPA.                                                            |                        |
| <b>e.</b>         | Proposed erosion and sediment control concepts are adequate to achieve the reductions in runoff and prevent off site sedimentation.                                                                             |                        |
| <b>f.</b>         | Proposed stormwater-management measures are adequate to control the stormwater runoff to achieve the required performance standard for pollutant control.                                                       |                        |
| <b>g.</b>         | Proposed revegetation of disturbed areas will provide optimum erosion and sediment control benefits.                                                                                                            |                        |
| <b>h.</b>         | The design and location of any proposed drain field will be in accordance with the general performance standards outlined in §110-4.18.7.                                                                       |                        |
| <b>i.</b>         | The development, as proposed, is consistent with the purpose and intent of §110-4.16.                                                                                                                           |                        |
| <b>j.</b>         | The cumulative impact of the proposed development, when considered in relation to other development in the vicinity, both existing and proposed, will not result in a significant degradation of water quality. |                        |

**- FOR CITY USE ONLY -**

Receipt # \_\_\_\_\_ ☐ \$115.00 ☐ \$350.00

This Application is Approved By \_\_\_\_\_ Date \_\_\_\_\_

Approval type: ☐ WQIA Review ☐ WQIA Waiver



Application #: \_\_\_\_\_

## **GRADING, FILLING OR EXCAVATING PERMIT APPLICATION**

Project Name/Location: \_\_\_\_\_ Area of Disturbance: \_\_\_\_\_

### **AUTHORIZATION STATEMENT**

Pursuant to City Code §110-6.12.2 and insofar as the Zoning Administrator has the right and power, PERMISSION is hereby given to  
(add name of land disturber) \_\_\_\_\_

Tel. No. (o) \_\_\_\_\_ (c) \_\_\_\_\_ to  
grade, fill, excavate, remove or destruct a portion of the natural topsoil or trees or other vegetative cover as shown on the approved (check  
one) ☐ Erosion and Stormwater Management Plan, ☐ Site Plan, or ☐ Subdivision Construction Plan.

Said grading, filling and excavating work to be completed in a manner satisfactory to the Administrator as inspected by the City's  
Site/Facilities Inspector, and if not so completed the Administrator may, at its discretion, complete the major work at the expense of the  
applicant. The Administrator may, at its discretion, issue civil penalty fines for work not completed according to the approved plan.  
The City of Fairfax reserves full municipal control over the subject matter of this permit.

Receipt acknowledges payment to the Treasurer, City of Fairfax, in the amount of \$ \_\_\_\_\_ (Inspection and Review fee) and  
\$ \_\_\_\_\_ (Performance Bond) to guarantee the faithful performance of the major work referred to herein.

### **ACKNOWLEDGEMENT STATEMENT**

This permit is accepted and understood to be limited to work as shown on the approved plan and as attested to by the following  
signatures:

Property Owner Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Address: \_\_\_\_\_ Zip Code \_\_\_\_\_

Email: \_\_\_\_\_

Contractor Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Address: \_\_\_\_\_ Zip Code \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

### **- FOR CITY USE ONLY -**

Associated Plan # \_\_\_\_\_

This Application is Approved By \_\_\_\_\_ Date \_\_\_\_\_  
Zoning Official

Time Limit Expiration \_\_\_\_\_

# RESPONSIBLE LAND DISTURBER CERTIFICATION

Effective July 1, 2024

Amendments to the Virginia Erosion and Stormwater Management Act, §§ 62.1-44.15:30 of the Code of Virginia

The Virginia Erosion and Stormwater Management Act requires, as a prerequisite to the approval of an erosion and sediment control plan, that the person responsible for carrying out the plan (owner/developer/permittee) shall provide to the plan approving authority the name of an individual holding a certificate of competence (Virginia Professional Engineer, Virginia Land Surveyor, Virginia Landscape Architect, Virginia Architect, Combined Erosion and Sediment Control Administrator, Erosion and Sediment Control Administrator, Erosion and Sediment Control Plan Reviewer, Erosion and Sediment Control Inspector, Erosion and Sediment Control Contractor, Responsible Land Disturber) issued by the Department of Environmental Quality (DEQ) who will be responsible for carrying out the land disturbing activity. Please note that a contractor's business license issued by the State or City does not satisfy the requirement for certification from DEQ; a special exam on the principles and practices of erosion and sediment control is required to obtain this certification ([www.deq.virginia.gov/our-programs/training-certification/responsible-land-disturber](http://www.deq.virginia.gov/our-programs/training-certification/responsible-land-disturber)).

This information must be kept current for the life of the plan.

Use this form to provide the responsible land disturber to the City of Fairfax prior to permit approval and whenever the individual responsible for carrying out the land disturbing activity changes during the life of the approved plan.

## OWNER /DEVELOPER/PERMITTEE INFORMATION

PROJECT NAME \_\_\_\_\_ ESM PLAN # \_\_\_\_\_

PROJECT ADDRESS \_\_\_\_\_

TAX MAP AND PARCEL # \_\_\_\_\_

OWNER/ DEVELOPER/PERMITTEE \_\_\_\_\_

## RESPONSIBLE LAND DISTURBER INFORMATION

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE # \_\_\_\_\_ CERTIFICATE/LICENSE # \_\_\_\_\_

SIGNATURE /DATE \_\_\_\_\_



# CITY OF FAIRFAX

## Site Plan Checklist and Certification Statement

The following affidavit and checklist must be signed by a certified engineer, architect, or land surveyor.

### Certification for Completeness and Accuracy

I hereby certify that this site plan checklist is complete and accurate for use in staff's evaluation of the attached site plan that is required pursuant to Section 110-6.8 in the Code of the City of Fairfax.

\_\_\_\_\_  
name

\_\_\_\_\_  
signature

\_\_\_\_\_  
date

[SEAL]

### Site Plan Checklist

All site plans must contain the following checklist information IN THE ORDER PRESCRIBED HEREIN. If a checklist item does not apply, please indicate "N/A" and explain in "Remarks" column. If an item is located on a different page than expected, note the page under "Remarks".

| COVER PAGE: |    |     |                                                                                                                                                                                      |                    |
|-------------|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Yes         | No | N/A | Description                                                                                                                                                                          | Engineer's Remarks |
|             |    |     | Engineer's name, address, and phone number                                                                                                                                           |                    |
|             |    |     | Location map at a scale not less than 1" = 2000', indicating scaled coordinates and landmark information such as names of roads and water bodies.                                    |                    |
|             |    |     | Tax Map Number, Property Address, Project Name and Sheet Index                                                                                                                       |                    |
|             |    |     | Seal and Signature of a professional engineer or other certified professional                                                                                                        |                    |
|             |    |     | Name and address of owner, developer and contract purchaser (if any).                                                                                                                |                    |
|             |    |     | Proposed floor area ratio and maximum permitted.                                                                                                                                     |                    |
|             |    |     | Area of parcel in square feet and acres                                                                                                                                              |                    |
|             |    |     | Deed book and page numbers                                                                                                                                                           |                    |
|             |    |     | Disturbed area in square feet or acres                                                                                                                                               |                    |
|             |    |     | Number and type of dwelling units and allowed density (if applicable)                                                                                                                |                    |
|             |    |     | Number of parking and loading spaces required and proposed                                                                                                                           |                    |
|             |    |     | Land use actions granted or requested for.                                                                                                                                           |                    |
|             |    |     | North arrow on all plan drawings and maps                                                                                                                                            |                    |
|             |    |     | Scale of each drawing, map or plan                                                                                                                                                   |                    |
|             |    |     | Date and preparation and revisions.                                                                                                                                                  |                    |
|             |    |     | Proposed gross floor area and the area of the above grade horizontal surface of any parking structure.                                                                               |                    |
|             |    |     | Landscaped open space required and proposed, zoning classification, use group classification and type of construction(Uniform Statewide Building Code).                              |                    |
|             |    |     | Certificate signed by the surveyor or engineer setting forth the source of title of the Owner of the parcel(s) and the place of record of the last instrument in the chain of Title. |                    |
|             |    |     | Agent Authorization Statement (printed on plan cover sheet with signature)                                                                                                           |                    |
|             |    |     | City Signature Block                                                                                                                                                                 |                    |

**CITY OF FAIRFAX**  
**Site Plan Checklist and Certification Statement**

**NOTES AND DOCUMENTATION PAGE:**

| Yes | No | N/A | Description                                                                                                                                          | Engineer's Remarks |
|-----|----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|     |    |     | Documentation of approvals granted by City Council, Planning Commission, Board of Zoning Appeals, Board of Architectural Review or any other agency. |                    |

**EXISTING CONDITIONS PAGE:**

| Yes | No | N/A | Description                                                                                                                                                                                                                                                                                                                         | Engineer's Remarks |
|-----|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|     |    |     | Boundary of the entire property or properties.                                                                                                                                                                                                                                                                                      |                    |
|     |    |     | Horizontal dimensions in feet and decimal fractions of a foot to the closest .00-foot and all bearings in degrees, minutes, and seconds to the nearest 10 seconds.                                                                                                                                                                  |                    |
|     |    |     | Proof of easements required for the development.                                                                                                                                                                                                                                                                                    |                    |
|     |    |     | Certified topographic map of the property at a two-foot contour interval, showing existing contours and delineating the 100-year floodplain elevation.                                                                                                                                                                              |                    |
|     |    |     | USGS datum used for all deviations with location and elevation benchmarks. (Should be NAD 83 for horizontal and NGVD29 for vertical).                                                                                                                                                                                               |                    |
|     |    |     | Locations and sizes of existing:                                                                                                                                                                                                                                                                                                    |                    |
|     |    |     | Fire lanes, "no parking", reserved parking and ADA parking.                                                                                                                                                                                                                                                                         |                    |
|     |    |     | Structures and their distance to property lines and center lines of adjacent streets.                                                                                                                                                                                                                                               |                    |
|     |    |     | Public streets, sidewalks, bike trails and easements on and adjacent to the site with rights-of-way, width of pavement, curbs, gutters, medians indicated, profiles, typical sections, and pavement design.                                                                                                                         |                    |
|     |    |     | Driveways and curb cuts on the site and adjacent properties (indicate sight distances for driveways entering public streets).                                                                                                                                                                                                       |                    |
|     |    |     | Parking and loading spaces, related driveways, walkways, drive-aisles and pavement types.                                                                                                                                                                                                                                           |                    |
|     |    |     | Recreation areas.                                                                                                                                                                                                                                                                                                                   |                    |
|     |    |     | Fences, retaining walls and other similar structures with height.                                                                                                                                                                                                                                                                   |                    |
|     |    |     | Guardrails, posts and other edge delineators.                                                                                                                                                                                                                                                                                       |                    |
|     |    |     | Street and site lighting indicating all fixture styles, overall height, type of luminaire and footcandle and uniformity values.                                                                                                                                                                                                     |                    |
|     |    |     | Traffic controls.                                                                                                                                                                                                                                                                                                                   |                    |
|     |    |     | Provisions for refuse disposal and recycling and required screening.                                                                                                                                                                                                                                                                |                    |
|     |    |     | Stormwater management facilities including all structures (pipes, inlets, drains, grates, etc) elevations, profiles, connections to existing facilities, ground clearance, detailed design of non-standard structures, calculations for pipe capacity, detention, retention facilities and BMP's.                                   |                    |
|     |    |     | Water and sanitary sewer facilities, including all structures (fire hydrants, meters, manholes, etc.), sizes and types of pipes, elevations, profiles, ground clearance and connections to public utility systems. (Indicate water pressure and flow capability, static pressure, residual pressure and flow in gallons per minute) |                    |
|     |    |     | Underground and overhead electric, telephone, cable, computer, gas lines and equipment.                                                                                                                                                                                                                                             |                    |
|     |    |     | Angles of bulk plane where minimum angles of bulk plane are controlled by Zoning regulations.                                                                                                                                                                                                                                       |                    |
|     |    |     | Existing vegetation including tree line and inventory                                                                                                                                                                                                                                                                               |                    |

**CITY OF FAIRFAX**  
**Site Plan Checklist and Certification Statement**

| SITE PLAN PAGE:                                                                                         |    |     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |
|---------------------------------------------------------------------------------------------------------|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Yes                                                                                                     | No | N/A | Description                                                                                                                                                                                                                                                                                                                                                                         | Engineer's Remarks |
|                                                                                                         |    |     | * Boundary of the entire property or properties.                                                                                                                                                                                                                                                                                                                                    |                    |
|                                                                                                         |    |     | Horizontal dimensions in feet and decimal fractions of a foot to the closest 0.00 foot and all bearings in degrees, minutes, and seconds to the nearest 10 seconds.                                                                                                                                                                                                                 |                    |
|                                                                                                         |    |     | Delineation of buildable area on each lot (show RPA boundaries, minimum required yard setbacks, floodplain limits and easements).                                                                                                                                                                                                                                                   |                    |
|                                                                                                         |    |     | Proof of easements required for the development.                                                                                                                                                                                                                                                                                                                                    |                    |
|                                                                                                         |    |     | Certified topographic map of the property at a two-foot contour interval, showing existing and proposed contours and delineating the 100-year floodplain elevation.                                                                                                                                                                                                                 |                    |
|                                                                                                         |    |     | USGS datum used for all deviations with location and elevation of benchmarks.                                                                                                                                                                                                                                                                                                       |                    |
|                                                                                                         |    |     | Proposed elevations at control points necessary to evaluate plan.                                                                                                                                                                                                                                                                                                                   |                    |
|                                                                                                         |    |     | Locations and sizes of proposed:                                                                                                                                                                                                                                                                                                                                                    |                    |
|                                                                                                         |    |     | Fire lanes, "no parking", reserved parking and ADA parking.                                                                                                                                                                                                                                                                                                                         |                    |
|                                                                                                         |    |     | * Structures and their distance to property lines and center lines of adjacent streets.                                                                                                                                                                                                                                                                                             |                    |
|                                                                                                         |    |     | * Public streets, sidewalks, bike trails and easements on and adjacent to the site with rights-of-way, width of pavement, curbs, gutters, medians indicated. Profiles, typical sections and pavement design.                                                                                                                                                                        |                    |
|                                                                                                         |    |     | * Driveways and curb cuts on the site and adjacent property (indicate sight distances for driveways entering public streets).                                                                                                                                                                                                                                                       |                    |
|                                                                                                         |    |     | * Parking and loading spaces, related driveways, truck turning radius, walkways, drive aisles and pavement types.                                                                                                                                                                                                                                                                   |                    |
|                                                                                                         |    |     | Recreation areas.                                                                                                                                                                                                                                                                                                                                                                   |                    |
|                                                                                                         |    |     | Fences, retaining walls and other similar structures, including an elevation drawing.                                                                                                                                                                                                                                                                                               |                    |
|                                                                                                         |    |     | Guardrails, posts and other edge delineators.                                                                                                                                                                                                                                                                                                                                       |                    |
|                                                                                                         |    |     | Street and site lighting indicating all fixture styles, overall height, type of luminaire, and foot-candle and uniformity values.                                                                                                                                                                                                                                                   |                    |
|                                                                                                         |    |     | Traffic controls and truck routes.                                                                                                                                                                                                                                                                                                                                                  |                    |
|                                                                                                         |    |     | Provisions for refuse disposal and recycling, and required screening.                                                                                                                                                                                                                                                                                                               |                    |
|                                                                                                         |    |     | Storm water management facilities including all structures (pipes, inlets, drains, grates, etc.) elevations, profiles, connections to existing facilities, ground clearance, detailed design of non-standard structures, calculations for pipe capacity, and detention facilities and/or BMPs must be shown on the Storm Water Management and Water Quality Plan pages.             |                    |
|                                                                                                         |    |     | * Water and sanitary sewer facilities, including all structures (fire hydrants, meters, manholes, etc.), sizes and types of pipes, elevations, profiles, ground clearance, and connections to public utility systems. Indicate water pressure and flow capability, static pressure, residual pressure, and flow in gallons per minute must be shown on the Utilities Plan Page (s). |                    |
|                                                                                                         |    |     | * Underground and overhead electric, telephone, television, computer gas lines and equipment                                                                                                                                                                                                                                                                                        |                    |
|                                                                                                         |    |     | Angles of bulk plane where minimum angles of bulk plane are controlled by zoning regulation.                                                                                                                                                                                                                                                                                        |                    |
|                                                                                                         |    |     | Vertical cross-sectional view showing height of proposed structures, number of stories, location and access to underground parking, and proposed elevation of each floor, including basements.                                                                                                                                                                                      |                    |
|                                                                                                         |    |     | Landscape materials, including a tree conservation proposal, showing existing and proposed vegetation with each tree's size labeled.                                                                                                                                                                                                                                                |                    |
| {*Denotes items that are required in digital format "dxf" for purpose of updating the City's GIS data.} |    |     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |

| <b>STORM WATER MANAGEMENT PLAN PAGE(S):</b> |    |     |                                                                                                                                                                                      |                    |
|---------------------------------------------|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Yes                                         | No | N/A | Description                                                                                                                                                                          | Engineer's Remarks |
| Narrative:                                  |    |     |                                                                                                                                                                                      |                    |
|                                             |    |     | Contact information including the name, address, and telephone number of the owner and the tax reference number and parcel number of the property or properties affected             |                    |
|                                             |    |     | Description of current site conditions and final site conditions                                                                                                                     |                    |
|                                             |    |     | Information on type and location of stormwater discharges                                                                                                                            |                    |
|                                             |    |     | Information on the features to which stormwater is being discharged, including water bodies classified as impaired on the Virginia DEQ 303(d) list                                   |                    |
|                                             |    |     | Information on any additional control measures to be implemented to address a local TMDL                                                                                             |                    |
|                                             |    |     | A general description of the proposed stormwater management facilities and the mechanism through which the facilities will be operated and maintained after construction is complete |                    |
| Site Information:                           |    |     |                                                                                                                                                                                      |                    |
| Yes                                         | No | N/A | Description                                                                                                                                                                          | Engineer's Remarks |
|                                             |    |     | Existing drainage facilities and creeks and channels, including all streams, ponds, culverts, ditches, wetlands, other water bodies, and floodplains                                 |                    |
|                                             |    |     | Soil types, geologic formations if karst features are present in the area, forest cover, and other vegetative areas                                                                  |                    |
|                                             |    |     | Current land use including existing structures, roads, and locations of known utilities and easements                                                                                |                    |
|                                             |    |     | Sufficient information on adjoining parcels to assess the impacts of stormwater from the site on these parcels                                                                       |                    |
|                                             |    |     | The limits of clearing and grading, and the proposed drainage patterns on the site                                                                                                   |                    |
|                                             |    |     | Proposed buildings, roads, parking areas, utilities, and stormwater management facilities                                                                                            |                    |
|                                             |    |     | Proposed land use with tabulation of the percentage of surface area to be adapted to various uses, including but not limited to planned locations of utilities, roads, and easements |                    |
| Hydrologic Analysis:                        |    |     |                                                                                                                                                                                      |                    |
| Yes                                         | No | N/A | Description                                                                                                                                                                          | Engineer's Remarks |
|                                             |    |     | *Pre-development and post-development contributing drainage areas                                                                                                                    |                    |
|                                             |    |     | Pre-development and post-development runoff rates, volumes, and velocities, and methodologies used                                                                                   |                    |
|                                             |    |     | Pollution load and reduction requirements and calculations                                                                                                                           |                    |
| Hydraulic Analysis:                         |    |     |                                                                                                                                                                                      |                    |
| Yes                                         | No | N/A | Description                                                                                                                                                                          | Engineer's Remarks |
|                                             |    |     | Sizing calculations for stormwater control measures                                                                                                                                  |                    |
|                                             |    |     | Existing and proposed structural elevations (pipe inverts, manholes, etc.)                                                                                                           |                    |
|                                             |    |     | Stage-storage or outlet rating curves and inflow and outflow hydrographs for storage facilities                                                                                      |                    |
|                                             |    |     | Design water surface elevations                                                                                                                                                      |                    |
|                                             |    |     | Analysis of potential downstream impacts/effects of the project                                                                                                                      |                    |
|                                             |    |     | Location and elevation of the lowest floor in all proposed and existing buildings adjacent to the floodplain                                                                         |                    |
|                                             |    |     | Dam safety and breach analysis                                                                                                                                                       |                    |
| Best Management Practices (BMPs):           |    |     |                                                                                                                                                                                      |                    |
| Yes                                         | No | N/A | Description                                                                                                                                                                          | Engineer's Remarks |
|                                             |    |     | Type of facilities proposed (use BMP Clearinghouse names)                                                                                                                            |                    |
|                                             |    |     | Location, including geographic coordinates (Lat/Long)                                                                                                                                |                    |
|                                             |    |     | Total acres treated                                                                                                                                                                  |                    |
|                                             |    |     | Acres impervious treated                                                                                                                                                             |                    |
|                                             |    |     | Acres pervious treated                                                                                                                                                               |                    |

**CITY OF FAIRFAX**  
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|                                                                                                         |           |            |                                                                                                                                                          |                           |
|---------------------------------------------------------------------------------------------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                                                                                         |           |            | Documentation and calculations verifying compliance with water quality and quantity requirements                                                         |                           |
|                                                                                                         |           |            | Applicable supporting documents and studies (e.g., infiltration tests, geotechnical investigations)                                                      |                           |
|                                                                                                         |           |            | Landscaping plan for any BMPs or site reforestation                                                                                                      |                           |
| {*Denotes items that are required in digital format "dxf" for purpose of updating the City's GIS data.} |           |            |                                                                                                                                                          |                           |
| Piped Systems:                                                                                          |           |            |                                                                                                                                                          |                           |
| <b>Yes</b>                                                                                              | <b>No</b> | <b>N/A</b> | <b>Description</b>                                                                                                                                       | <b>Engineer's Remarks</b> |
|                                                                                                         |           |            | Analyzed and designed for 2/10-yr/25-yr/100-yr Storm Primary road crossings designed for 25-yr flows and 10-yr under secondary roads and other locations |                           |
|                                                                                                         |           |            | Culverts checked for the effects of 100-yr storm. No flooding of building structures shall result from 100-yr design flow                                |                           |
|                                                                                                         |           |            | Energy dissipater calculations                                                                                                                           |                           |
|                                                                                                         |           |            | Capacity of receiving channel downstream of channel or pipe system                                                                                       |                           |
|                                                                                                         |           |            | Gutter spread limited to 10ft from the face of the curb                                                                                                  |                           |
|                                                                                                         |           |            | Hydraulic grade lines show 1ft below inlets                                                                                                              |                           |
| Open Channel Systems:                                                                                   |           |            |                                                                                                                                                          |                           |
| <b>Yes</b>                                                                                              | <b>No</b> | <b>N/A</b> | <b>Description</b>                                                                                                                                       | <b>Engineer's Remarks</b> |
|                                                                                                         |           |            | Proposed channel capacity analyzed and designed for pre 10-yr storm                                                                                      |                           |
|                                                                                                         |           |            | Channel designed for 2-yr Storm without erosion and 10-yr for bank fill (liner design)                                                                   |                           |
|                                                                                                         |           |            | Velocity Check (liners provided, if needed) Provide channel velocities.                                                                                  |                           |
|                                                                                                         |           |            | Overlot grading plan.                                                                                                                                    |                           |
|                                                                                                         |           |            | Provide 100-yr overland relief assuming pipe system failure.                                                                                             |                           |

**CHESAPEAKE BAY REGULATIONS PLAN PAGE:**

|                                                      |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |
|------------------------------------------------------|-----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <b>Yes</b>                                           | <b>No</b> | <b>N/A</b> | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Engineer's Remarks</b> |
|                                                      |           |            | For any property depicted on the city's Chesapeake Bay preservation area map as a resource protection area, applicant shall determine and show on the plan the site-specific boundaries of the RPA components per code section 110-6.13.2.B.2 The applicant shall also submit a RPA site-specific study application available at the Zoning Division or at: <a href="http://www.fairfaxva.gov/cdp/docs/RPASiteSpecificStudyApplication.pdf">http://www.fairfaxva.gov/cdp/docs/RPASiteSpecificStudyApplication.pdf</a> |                           |
|                                                      |           |            | USACE jurisdictional determination or verification letter for RPA boundaries                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |
|                                                      |           |            | Water quality impact assessment is required for any proposed development or redevelopment unless the requirement is waived by the Zoning Administrator. Application/waiver form is available at the Planning counter or at: <a href="http://www.fairfaxva.gov/cdp/docs/WQIAApplication.pdf">http://www.fairfaxva.gov/cdp/docs/WQIAApplication.pdf</a>                                                                                                                                                                 |                           |
|                                                      |           |            | Tree conservation plan per code section 110-6.13.2.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |
|                                                      |           |            | Stormwater Management Plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |
|                                                      |           |            | BMP maintenance plan, including inspection schedule                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |
|                                                      |           |            | BMP maintenance agreement (available at Planning counter)                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |
|                                                      |           |            | Copies of any required wetland permits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |
| Performance Standards of Chesapeake Bay Regulations: |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |
| <b>Yes</b>                                           | <b>No</b> | <b>N/A</b> | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Engineer's Remarks</b> |
|                                                      |           |            | Maximize rainwater infiltration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |
|                                                      |           |            | Reduce the land application of nutrients and toxics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |
|                                                      |           |            | Minimize erosion and sedimentation potential.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |
|                                                      |           |            | Limit land disturbance and preserve indigenous vegetation to the maximum extent practicable, consistent with the use or development proposed                                                                                                                                                                                                                                                                                                                                                                          |                           |

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| EROSION AND STORMWATER MANAGEMENT PLAN PAGE:                      |    |     |                                                                                                                                                                                                             |                    |
|-------------------------------------------------------------------|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Yes                                                               | No | N/A | Description                                                                                                                                                                                                 | Engineer's Remarks |
| An erosion and sediment control plan including:                   |    |     |                                                                                                                                                                                                             |                    |
|                                                                   |    |     | Limits of clearing and grading.                                                                                                                                                                             |                    |
|                                                                   |    |     | Existing drainage patterns.                                                                                                                                                                                 |                    |
|                                                                   |    |     | Critical erosion areas.                                                                                                                                                                                     |                    |
|                                                                   |    |     | Locations of erosion and sediment controls and stormwater management practices to be used including tree protection measures consistent with the Tree Conservation Plan                                     |                    |
|                                                                   |    |     | Any off-site land-disturbing activities.                                                                                                                                                                    |                    |
|                                                                   |    |     | Detail drawings of structures to be used.                                                                                                                                                                   |                    |
|                                                                   |    |     | A schedule of regular inspections and maintenance.                                                                                                                                                          |                    |
| Erosion and sediment control narrative including descriptions of: |    |     |                                                                                                                                                                                                             |                    |
| Yes                                                               | No | N/A | Description                                                                                                                                                                                                 | Engineer's Remarks |
|                                                                   |    |     | Project.                                                                                                                                                                                                    |                    |
|                                                                   |    |     | Existing topography, vegetation and drainage                                                                                                                                                                |                    |
|                                                                   |    |     | Show all off-site drainage areas that flow to or from the site.                                                                                                                                             |                    |
|                                                                   |    |     | Neighboring areas such as streams, lakes, residential areas, roads, and the like that might be affected by the land disturbance.                                                                            |                    |
|                                                                   |    |     | Any off-site land-disturbing activities.                                                                                                                                                                    |                    |
|                                                                   |    |     | Soils, including names, mapping unit, erodibility, permeability, depth, texture and soil structure.                                                                                                         |                    |
|                                                                   |    |     | Areas on the site that have potentially serious erosion problems.                                                                                                                                           |                    |
|                                                                   |    |     | Methods which will be used to control erosion and sedimentation.                                                                                                                                            |                    |
|                                                                   |    |     | Specifics regarding permanent stabilization of the site.                                                                                                                                                    |                    |
|                                                                   |    |     | Increases in stormwater runoff and strategies to control runoff.                                                                                                                                            |                    |
|                                                                   |    |     | Design of temporary sediment basins, permanent stormwater detention basins, diversions, channels, and the like, including calculations supporting proposed design and for pre- and post-development runoff. |                    |
|                                                                   |    |     | Maintenance plan for E&S control.                                                                                                                                                                           |                    |
|                                                                   |    |     | List minimum E&S standards 1 through 19 and how they are met.                                                                                                                                               |                    |

| TREE CONSERVATION PLAN PAGE(S): |    |     |                                                                                                                                                                                          |                    |
|---------------------------------|----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Yes                             | No | N/A | Description                                                                                                                                                                              | Engineer's Remarks |
|                                 |    |     | Existing vegetation summary table by forest cover type, primary species, condition, and pre-existing canopy area by percentage and square feet.                                          |                    |
|                                 |    |     | Location of existing tree canopy line and areas denoted by forest cover types.                                                                                                           |                    |
|                                 |    |     | Pre- and post-development conditions including structures, utilities, easements, paved surfaces, fences, resource protection areas, property lines, topography, tree line.               |                    |
|                                 |    |     | Location of existing trees with tree numbers, critical root zones, denote trees to be removed, saved, offsite, shared, and ROW.                                                          |                    |
|                                 |    |     | Location of limits of clearing and grading, construction entrance, stockpile areas, cut/fill lines for applicable linear projects, and E&S controls including tree protection measures.  |                    |
|                                 |    |     | Tree inventory table with scientific and common name, diameter at standard height, condition, proposed tree conservation measure, note for offsite/shared/ROW trees, and date collected. |                    |
|                                 |    |     | Proof of notification and authorization signature by all tree owners for any offsite or shared trees proposed for removal per code section 6.10.                                         |                    |
|                                 |    |     | Invasive species control narrative with primary species, control methods, timing, and frequency.                                                                                         |                    |
|                                 |    |     | Tabulation of required and proposed onsite 10-year percent tree canopy coverage by preservation.                                                                                         |                    |
|                                 |    |     | Tree protection details and preservation narrative.                                                                                                                                      |                    |
|                                 |    |     | Name and signature of ISA Certified Arborist or equivalent qualified professional certifying tree conservation plan per code section 4.5.4.B.                                            |                    |

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| LANDSCAPING PLAN PAGE:              |    |     |                                                                                                                                                                                                         |                    |
|-------------------------------------|----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Yes                                 | No | N/A | Description                                                                                                                                                                                             | Engineer's Remarks |
|                                     |    |     | Post-development location of structures, utilities, easements, fences, retaining walls, paved surfaces, signs and signals, transit features, any features in the landscape buffer, and site topography. |                    |
|                                     |    |     | Location of landscape materials to remain by tree number and tree line, proposed plants by species and 10-year maturity size, and denoting ground cover types or seed mixes.                            |                    |
|                                     |    |     | Planting schedule by scientific and common name with caliper at planting, count, canopy credit per tree.                                                                                                |                    |
|                                     |    |     | Required number of landscaped parking islands.                                                                                                                                                          |                    |
|                                     |    |     | Screening requirements including fence detail and dumpster screening.                                                                                                                                   |                    |
|                                     |    |     | Construction and design details and planting narrative from PFM.                                                                                                                                        |                    |
| The following data in tabular form: |    |     |                                                                                                                                                                                                         |                    |
|                                     |    |     | 10-year percent tree canopy required calculation with canopy provided by preservation, planting, and total in square feet and percentage.                                                               |                    |
|                                     |    |     | RPA vegetation replacement per acre disturbed, including planting density by forest layer and nursery stock size, scientific and common names, spacing, and totals.                                     |                    |
|                                     |    |     | Street trees required and total provided by linear feet with each street name.                                                                                                                          |                    |
|                                     |    |     | Transitional yard required and provided with minimum fence or wall by width and length, and vegetation by canopy, understory, and shrub.                                                                |                    |

| FIRE LANE PLAN PAGE:              |    |     |                                                                                                                  |                    |
|-----------------------------------|----|-----|------------------------------------------------------------------------------------------------------------------|--------------------|
| Yes                               | No | N/A | Description                                                                                                      | Engineer's Remarks |
| A fire protection plan including: |    |     |                                                                                                                  |                    |
|                                   |    |     | Location, width and radius of all existing and proposed fire lanes.                                              |                    |
|                                   |    |     | Location of all fire lane signage.                                                                               |                    |
|                                   |    |     | Location of all structures, denoting area, height, use group, construction type and sprinkler system if present. |                    |
|                                   |    |     | Location of alarm annunciator, if present, and key repository.                                                   |                    |
|                                   |    |     | Location of all existing and proposed fire hydrants, including connection to water mains.                        |                    |
|                                   |    |     | Location of all existing and proposed fire lanes and fire department connections including identification.       |                    |
|                                   |    |     | Fire flow data, showing flow available at 20 PSI residual.                                                       |                    |

**CITY OF FAIRFAX**  
**NOTES TO BE INCLUDED ON THE SITE PLAN**

**PERMITS**

1. A street opening permit is required for any work in a City right-of-way or easement. The permit can be obtained from the Public Works Department. For information, call 703-385-7980 or 703-385-7810.
2. All sidewalks, curbs, gutters, driveways, streets, storm pipes, sanitary sewer, endwalls, and rip-raps must be inspected by the City. All work in the City streets will be performed Monday- Friday between the hours of 9:00 a.m. and 3:00 p.m. No work is to be performed on weekends or holidays unless pre-approved by the Director of Public Works.
3. Inspections performed by the Facilities Inspector will require a four-hour notice prior to inspections.

**GENERAL STANDARDS**

1. The Public Works Director must be notified one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activity and one week prior to the final inspection. The Site Plan Coordinator in Zoning (703-385-7820) must be notified one week prior to the pre-construction conference.
2. A preconstruction meeting will be required three days prior to any construction. Contractors will notify the Public Works Department or Facilities Inspector for all work done on-site and off-site one day prior to starting.
3. The contractor shall provide adequate means for parking construction equipment and provide employee parking on site.
4. All construction shall conform to the latest City of Fairfax standards, Virginia Department of Transportation, and the Virginia Sediment & Stormwater Management Act's current specifications, except as shown or altered by these plans.
5. Traffic signs found to be in the way at construction sites shall be removed or relocated only by personnel in the Sign & Signal Crew of the Public Works Department at the contractor's request. Any contractor found responsible for moving City property without permission will receive a summons.
6. All building construction shall be in accordance with the current edition of the Virginia Uniform Statewide Building Code. Permits and inspections for building, electrical, plumbing, mechanical and fire protection work are obtained from the Office of Code Administration, 703-385-7830.
7. Private fire mains require a permit from the Office of Code Administration. The permit application must include details of installation as specified in NFPA-24. An approved site plan is not a permit to install fire mains.
8. No portion of any building shall be occupied until a certificate of occupancy has been issued by the Building Official and a use permit by the Office of Community Development & Planning.
9. No building, except additions or accessories to existing dwellings, shall proceed beyond first floor level until the location of the footing and walls, as shown on a plat certified by a land surveyor, has been approved by the Zoning Administrator.
10. An as-built plan must be submitted within 30 days after completion of all construction.
11. Temporary structures, construction trailers, and demolition require permits from the Office of Code Administration prior to the start of work or installation.
12. Adequate emergency vehicle access shall be maintained at all times. A hard surfaced, all- weather roadway shall be provided to within 50 feet of all structures and any location where combustible materials are stored.

13. City ordinance permits construction noise, including excavation, between the hours of 7:00 am and 6:00 pm on weekdays and 8:30 am and 5:00 pm on Saturdays ONLY. It shall be the responsibility of the developer to ensure that all contractors and subcontractors comply with this ordinance.
14. The Developer shall be responsible for ensuring compliance with City Code sections limiting growth of grass and weeds to six inches in height.

## CONSTRUCTION

1. All subgrade and sub-base material shall be compacted to 95% of theoretical maximum density as determined by A.A.S.H.O. T-99 method A within plus or minus 20% of optimum moisture for the full width of any dedicated right-of-way and all townhouse, apartment, condominium, commercial and industrial parking lots (including storm sewer and sanitary sewer).
2. Compaction test shall be performed by the contractor. Subgrade for curb, gutter and sidewalk shall be every 50 feet; sub-base will be alternated every 25 feet. Driveways require two tests on subgrade and sub-base. A copy of results is required prior to placing any type of material. VTM-1 correction also must be used. All structures require two tests on subgrade and sub-base.
3. Compaction tests for roadways shall be performed by the City only, unless approved by the Public Works Director. Compaction tests for all building pads must be submitted to the office of Code Administration for review and approval.
4. All underground utilities within the street right-of-way shall be installed to the required distance beyond the right-of-way.
5. Storm sewer and culvert pipe shall be reinforced concrete pipe to conform to the current A.A.S.H.T.O. designation M170, unless otherwise designated on the plans. Class II pipe is permitted beyond the limits of street rights-of-way. Class III pipe is required within the limits of the rights-of way.
6. All curbs and gutters shown on plans and not in profiles shall be on straight tangent grades. The contractor shall round all vertical breaks with smooth spline curbs.
7. All pavement placed on City right-of-way shall have a mix design approved prior to placing material and a density test performed during placement.
8. Street signs and markings shall be installed by the developer at all street intersections in a location to be determined by the Director of Public Works. Private access ways and alleys shall be clearly designated as such by a sign at every entrance from a public street, stating "private street, privately owned and privately maintained". All street markings and signage will conform to City of Fairfax standards and the Manual of Uniform Traffic Control, per the Street Superintendent.
9. C.B.R. test is required for actual determination of required sub-base thickness prior to construction. The depth of sub-base is based on subgrade C.B.R. value of 10. Where C.B.R. value is less than 10, one-inch of sub-base or base material shall be added for each point below 10 for on-site and off-site and shall be reviewed by the City of Fairfax for special design.
10. All construction must comply to the Code of Virginia 36-98 and 36-99 by reference as part of the Uniform Statewide Building Code of Virginia, the final fair housing accessibility guidelines (24 CFR Chapter I) and the Americans with Disabilities Act accessibility guidelines (28 CFR, part 36) as per site and right-of-way work compliance.
11. Provide proper distance from the back of sidewalk to building for stoops and steps, and the like.
12. All roofs, paved areas, yards, courts, and courtyards shall be drained into a separate storm sewer or a combined sewer system.

## **ENVIRONMENTAL**

1. All erosion siltation control to be installed prior to starting project to conform to the current Virginia Erosion and Sediment Control Manual.
2. The contractor shall provide adequate means of cleaning mud from trucks and/or other equipment prior to entering the City of Fairfax rights-of-way. It is the contractor's responsibility to clean streets and alley dust and to take whatever measures necessary to ensure that the road is maintained in a clean and dust-free condition at all times.
3. It shall be the contractor's responsibility to perform the work in such a manner to prevent the washing of any topsoil, silt, or debris onto adjacent properties.
4. If the presence of asbestos is suspected in the soil, the contractor must contact the Air Pollution Control Division of the Fairfax County Health Department at 703-246-2300.
5. Onsite storage of fuel shall be limited to diesel fuel tanks not over 660 gallons capacity. Tanks shall be of a listed type and shall be provided with approved secondary containment, impact protection, and placarding. A minimum 2A-40BC fire extinguisher shall be provided in the vicinity of the refueling area. A permit for combustible liquid storage shall be obtained from the Office of Code Administration, 703-385-7830. Fuel shall not be placed in onsite storage tanks until the installation has been inspected and approved.
6. Onsite repair of vehicles and equipment shall be limited to replacement of damaged belts, hoses and tires. Any spill of fuel, oil, hydraulic fluid or anti-freeze greater than one gallon must be reported to the Office of Code Administration at 703-385-7830. All spills must be cleaned up promptly and in an approved manner.
7. The Owner shall be responsible for ensuring compliance with City Code sections regarding health and safety menaces, including accumulations of water, storage of material, construction debris, and security of the site.
8. The link to the asbestos information and map on the Fairfax County website <http://www.fairfaxcounty.gov/hd/asb/>
9. Prior to the start of any site grading work, the developer or owner shall obtain a Virginia Erosion and Stormwater Management Program (VESMP) permit from the City of Fairfax. The VESMP permit requires that a Stormwater Pollution Prevention Plan (SWPPP) be kept at the construction site at all times.

## **LANDSCAPE**

1. The area surrounding all trees, shrubs, and groundcover shall be topped with two inches of shredded hardwood bark mulch.
2. No changes shall be permitted to the plant list unless approved by the City of Fairfax.
3. Trees shall be classified as per "American Standard for Nursery Stock" as adopted by the American Association of Nurserymen. Plant material below this standard shall not be considered.
  - a) All plants must conform to requirements per plant list;
  - b) All plant materials must be nursery grown stock;
  - c) All trees must be well branched, full crown.
4. At least 5 days before being planted, the Site Plan Coordinator shall be notified that plants are available for inspection.
5. No person shall remove or destroy any tree which is five (5) inches or greater in caliper, measured six (6) inches above ground level, on any lot greater than one-half (1/2) acre without first obtaining a tree removal permit from the Zoning Administrator. Any tree removed, damaged or destroyed will be replaced at the discretion of the Zoning Administrator.

## **DEPARTMENT OF PUBLIC WORKS SANITARY SEWER STANDARD NOTES GENERAL**

1. All sanitary sewers shall be constructed in accordance with the current City of Fairfax Standards and Specifications.
2. Easements for all sanitary shall be 10' unless otherwise noted.
3. Sanitary sewers and water mains shall maintain a minimum of 15' horizontal separation from proposed or existing buildings.
4. No landscaping or other utilities (i.e. gas, phone, cable, etc.) are permitted in the sewer easements, except at crossings.
5. The contractor shall request pre-construction meeting and inspection by the Department of Public Works (703-385-7810) three days prior to commencing construction of any sewer mains.
6. A permit for the installation of sanitary sewers and fire hydrants shall be obtained from the Department of Public Works.
7. Sewer laterals not within an easement require plumbing permits and inspections from the Office of Code Administration. The inclusion of these items does not constitute a permit.

### **SANITARY SEWER:**

1. Sanitary sewers shall be PVC DR-25 per AWWA C-900, unless otherwise noted.
2. Sanitary sewer laterals shall be 4" PVC DR-25 between the main and the property line and shall enter the main at 90 degrees. A cleanout shall be installed at the property line.
3. A 2" detectable metal marking tape shall be placed 3-feet above all sanitary sewers.
4. The Department of Public Works shall inspect sanitary sewers by a camera after the lines are put in service.
5. Finish grade shall drain away from manholes located outside of pavement areas.
6. The top of manholes located outside of pavement areas shall be 3" above final grade, except in established lawns where it shall match the final grade.
7. Manholes shall have bituminous coating on the outside walls.
8. All sanitary manhole lids shall be heavy duty and shall have the words "Fairfax City Sewer" cast in them.
9. Drop manholes shall have an 8" inside drop pipe.
10. Manholes in 100 yr. Floodplains shall have watertight lids.
11. All testing is provided by the contractor, as directed by the city inspector.

**CITY OF FAIRFAX**  
**NOTES TO BE INCLUDED ON THE SITE PLAN**

**NOTES TO BE INCLUDED ON RESIDENTIAL PLANS**

1. No building shall proceed beyond the first-floor level until the horizontal location and elevation of the top of each foundation wall, as shown by certified surveyor's plat thereof, has been approved by the Zoning Administrator.
2. It shall be the developers and/or owners' responsibility to perform the work in such a manner to prevent the washing of topsoil, silt, or debris onto adjacent properties.
3. It shall be unlawful for any person to engage in land-disturbing activities of two thousand five hundred (2,500) square feet or more for any purpose until a permit is issued by the plan-approving authority.
4. All erosion control to be installed prior to starting project to conform to the Virginia Stormwater Management Handbook adopted by the Virginia Department of Environmental Quality on the date of ESM plan approval.
5. A street opening permit is required for any work in the City right-of-way or easement. The permit can be obtained from the Public Works Department. For information call 703-385-7983 or 703-385-7828.
6. All on-site utilities shall be installed underground in accordance with city and applicable utility company standards.
7. No portion of the building shall be occupied until a Residential Use & Occupancy has been issued by the Zoning Administrator.
8. The developer shall provide adequate means of cleaning mud from trucks and/or equipment prior to entering the City of Fairfax rights-of-way. It is the developer's responsibility to clean streets and to take measures necessary to ensure that the road is maintained in clean and dust-free condition at all times.
9. The developer shall provide for adequate storm drainage so that the proposed improvement of the property does not direct concentrated flow to adjoining properties. The drainage shall be approved by the City Building Inspector and Facilities Inspector prior to issuing the occupancy permit.
10. Each development shall provide for the planting or retention of trees on the site to the extent that, at a maturity of ten years, the minimum tree canopy shall be twenty-five (25) percent for a site zoned RL and shall be twenty (20) percent for a site zoned RM, RH or PD-R.
11. Any application proposing to remove or destroy existing trees in conjunction with any land development activity shall submit a tree management plan containing such information as deemed necessary by the Zoning Administrator (Sec. 110-4.5.9.D.1)

# CITY OF FAIRFAX

## DIGITAL DATA SUBMISSION REQUIREMENTS FOR GIS

### Background:

The City of Fairfax has developed a Geographic Information System (GIS) to store, manage, and maintain geographic data. The local land development, engineering, and surveying communities have also embraced digital technologies in their own fields. Because development plans are now created using computer aided design and drafting (CAD) software, it is the goal of the City of Fairfax to utilize these techniques to enhance and expedite the design and plan review process within the City and help maintain a digital database of geographic information. For this, requirements have been implemented to allow CAD and other GIS data to be integrated into the City's GIS while preserving the referential and positional accuracy of the original measurements.

### Requirements:

1. **Data *must* be in DXF format if from AutoCAD, Microstation, or another Cad software program, or ESRI Shapefile if from a GIS software program. (DWG and DGN files will *not* be accepted)**
2. Data *must* be projected in Virginia State Plane North, NAD 83 Harn. Data *must* fit in seamlessly with the City's GIS data layers.
3. Data *must* be separated into *individual* thematic layers and labeled accordingly.

### **Layers Required** (project dependent)

Building footprints

Parking configuration (including islands, no parking stripes) (Commercial) Driveways (Residential)

Street Centerlines

Parcel / Property boundaries

Utility Lines (sewer, water, electric, gas, fiber optic cable, phone lines, etc.) Sidewalks

Easements

Landscaping/tree cover (post-development)

Topography (to include vertical datum reference in National Geodetic Vertical Datum of 1929 (NGVD29)).

Minimum of four (4) digital grid tics in NAD 83 Virginia State Plane Coordinate System.

Right-of-way

Stormwater lines, structures, outlets

Best Management Practice (BMP) (include polygon showing drainage area to each BMP)

4. A text file or Word document *must* accompany the digital data with a description of each layer. POCs for electronic plat submission requirements are with Maurice Rioux, GIS Manager with the Dept. of Information Technology at [maurice.rioux@fairfaxva.gov](mailto:maurice.rioux@fairfaxva.gov)

This information is also available on the City's website [www.fairfaxva.gov/it/gis.asp](http://www.fairfaxva.gov/it/gis.asp)