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Climate Assessment for

[Master Plan Title]

## pURPOSE OF CLIMATE ASSESSMENTS

The purpose of the Climate Assessments is to evaluate the anticipated impact of master plans and zoning text amendments (ZTAs) on the county’s contribution to addressing climate change. These assessments will provide the County Council with a better understanding of the potential climate impacts and implications of proposed master plans and ZTAs, at the county level. The scope of the Climate Assessments is limited to addressing climate change, specifically the effect of land use recommendations in master plans and ZTAs on greenhouse gas (GHG) emissions and carbon sequestration, and how actions proposed by master plans and ZTAs could improve the county’s adaptive capacity to climate change and increase community resilience.

While co-benefits such as health and cost savings may be discussed, the focus is on how proposed master plans and ZTAs may impact GHG emissions and community resilience.

## Summary

[For example: The Montgomery County Planning Board anticipates that [Master Plan X will have no, slight, moderate, large positive or negative] impacts on the county’s goals of addressing greenhouse gas emissions, carbon sequestration, and ensuring resilience and adaptive capacity of our communities.

## Background and Purpose of MAster Plan X

[Discussion of what this Master Plan does, what issues are being addressed, what geographies are covered, etc.… --- *should be provided by the lead master plan review coordinator*]

## VaRIABLES THAT COULD AFFECT THE ASSESSMENT

[List the climate-related and non-climate related variables that were considered in the assessment. Climate related variables include the various greenhouse gas reduction, sequestration, resilience, and adaptive capacity activities in the climate assessment checklists (Tables 1 and 8) contained in the *Climate Assessment Recommendations for Master Plans and Zoning Text Amendments in Montgomery County*.]

### Climate-RELATED vARIABLES

[For example, greenhouse gas, sequestration, resilience-related, and adaptive capacity-related variables.]

### oTHER vARIABLES

[For example, non-climate related variables related to the master plan.]

## Anticpated Impacts

[High level summary of what is anticipated (see Tables 1 and 8 and associated text) found in *Climate Assessment Recommendations for Master Plans and Zoning Text Amendments in Montgomery County*. [No, slight, moderate, large positive or negative] impacts on greenhouse gas emissions, sequestration, community resilience, and adaptive capacity as described in more detail below.] *If there are no anticipated impacts, it may be feasible to delete the two sub-sections below and just add a few sentences here summarizing no impacts to all areas of assessment.*

### Greenhouse Gas Emissions, Carbon Sequestration, and Drawdown

[For example: The [Master Plan X is anticipated to have [no, slight, moderate, large] [positive or negative] impacts on greenhouse gas emissions and carbon sequestration. Note: The *Climate Assessment Recommendations for Master Plans and Zoning Text Amendments in Montgomery County* indicates that carbon sequestration, drawdown, and reduction are generally used interchangeably. The *Recommendations* document uses the term sequestration.]

[Provide explanation for the assessment. For example: Were any activities in the greenhouse gas and sequestration checklist (Table 1) identified as having a positive or negative impact? What are the associated uncertainties? Is there an anticipated timeline of impacts – does this involve a change in policy or practice that would have immediate impacts or does this change requirements only for future/new things which would lengthen the impacts? Was any other literature review done as a result of the initial checklist that provides reference points on the subject? How does the master plan relate to the county’s Climate Action Plan (CAP) GHG goals and reduction strategies, and Thrive Montgomery 2050 recommendations? Are there any options to reduce potential GHG emissions or increase sequestration? If modeling (GHG Quant Tool as described in the *Recommendations* and Quant Tool documentation) was involved in the assessment include appropriate summaries of the results and how they affect the assessment.]

### Community Resilience and Adaptive Capacity

[For example: The [Master Plan X is anticipated to have [no, slight, moderate, large] [positive or negative] impacts community resilience and adaptive capacity].

[Provide explanation for the assessment. For example: were any activities in the checklist (Table 8) get identified as having a positive or negative impact? What are the associated uncertainties? Is there an anticipated timeline of impacts – does this involve a change in policy or practice that would have immediate impacts or does this change requirements only for future/new things which would lengthen the impacts? Was any other literature review done as a result of the initial checklist that provides reference points on the subject? Is there a tie to CAP or Thrive recommendations? Are there any options to reduce potential negative impacts?]

## Relationship to Greenhouse gas reduction and sequestration actions contained in the Montgomery county CLimate action plan (CAp)

[Assess whether each applicable activity factor for the master plan relates to a core greenhouse gas emission or sequestration action within the most recent version of the county’s Climate Action Plan (CAP), and note if that action has a relatively high, medium, or low reduction potential as evaluated within the CAP (see Table 2 and associated text contained in the *Climate Assessment Recommendations for Master Plans and Zoning Text Amendments in Montgomery County*).]

## Recommended Amendments

The Climate Assessment Act requires the Planning Board to offer appropriate recommendations such as amendments to the proposed [Master Plan X] or other mitigating measures that could help counter any identified negative impacts through this Climate Assessment.

## SOURCES OF INFORMATION, ASSUMPTIONS, AND MethodologIES USED

[The climate assessment for [Master Plan X] was prepared using the methodology for master plans contained within the *Climate Assessment Recommendations for Master Plans and Zoning Text Amendments in Montgomery County, December 1, 2022*.]

[Did the checklist process prompt additional literature review? If so, cite the relevant literature. If modeling was involved (GHG Quant Tool) provide model citation. Were any assumptions made that are not covered by the *Climate Assessment Recommendations for Master Plans and Zoning Text Amendments in Montgomery County, December 1, 2022*? If so, summarize them and how they relate to the climate assessment.]