

Sustainable Design Standards

Presented by Laura Thomas
Director of Sustainability



OFFICE OF
SUSTAINABILITY

City of Richmond
RVAgreen
2050

WHAT ARE SUSTAINABLE DESIGN STANDARDS?

U.S. General Services Administration:

- Sustainable design optimizes building performance and minimizes negative impacts on building occupants and the environment.
- Integrated, holistic approach that positively impacts all phases of a building's life-cycle



WHY IS THE CITY CREATING SUSTAINABLE DESIGN STANDARDS NOW?

Virginia General Assembly Bill: HB2001 (5,000 sqft+ or 50% of Renovation Costs)

July 1, 2021, PUBLIC buildings for localities with populations of 100,000+ must:

1. Be designed, constructed, verified, and operated to comply with one of three high-performance building certification programs
2. Have sufficient zero-emission vehicle charging and fueling infrastructure,
3. Include features that measure the energy consumption and associated carbon emissions, and
4. Incorporate appropriate resilience and distributed energy features.

OR 20,000 sqft and below may instead by Energy Star compliant and Building Commissioning

WHAT IS THE SCOPE OF WORK?

DPW & OOS Defined the Scope of Work:

Shall encompass **minimum energy efficiency, sustainability, and resilience guides and standards required** of new construction and major renovation building projects;

Based on best practices, current and future energy efficiency, resilience and sustainability goals;

Will include Sustainable Design Guidelines to be implemented by the City and followed by **all new construction and major renovation projects.**



WHAT ELEMENTS ARE COVERED IN THE SUSTAINABLE DESIGN STANDARDS?

Overview

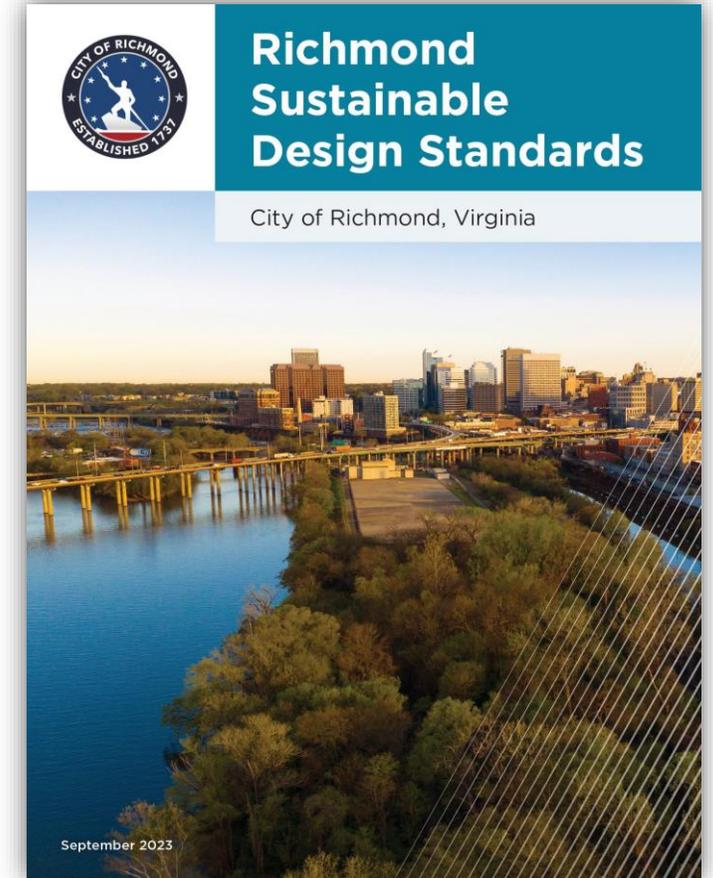
- Integrated Process
- Water
- Energy
- Indoor Environmental Quality
- Transportation
- Stormwater
- Site & Landscaping
- Architecture



4. Sustainable Design Standards Process

DO THE CITY'S SUSTAINABLE DESIGN STANDARDS APPLY TO EVERYTHING?

- No, there are exceptions:
 - New Building or Renovation Projects less than 10,000 SF
 - Emergency/security repairs
 - Small infrastructure projects with less than 10,000 SF of land disturbance
 - Utility maintenance and repair projects
 - Park projects under 0.5 acre in size

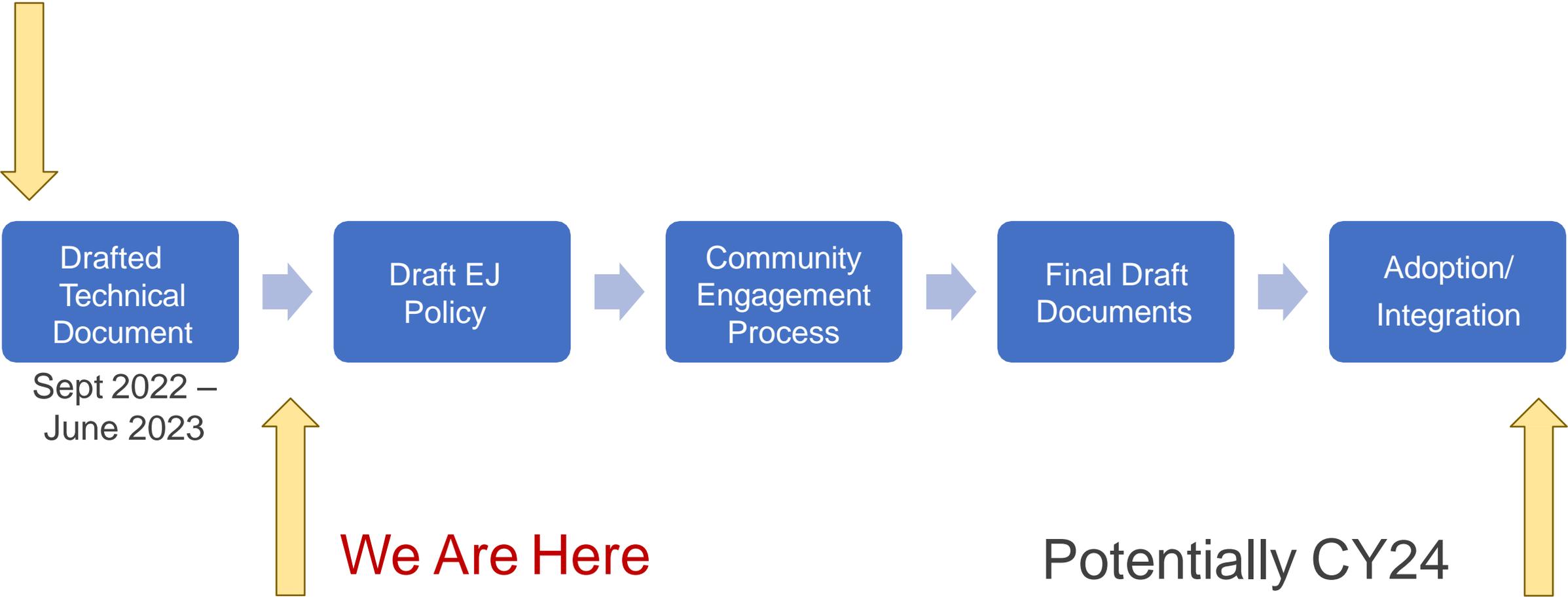


HOW HAVE INTERNAL STAKEHOLDERS BEEN INVOLVED?

- Project team assembled (DPW, OOS, and More)
- Initial kick-off meetings with Leadership
- Broad city-wide review opportunities
 - 100+ team members
- Multiple drafts created
- Draft deliverable completed



WHERE ARE WE IN THE PROCESS?



WILL THE SUSTAINABLE DESIGN STANDARDS ALIGN WITH OTHER INITIATIVES?

- Zoning Re-write
- CIP Planning Fund
- Private Development Guidance:
 - Requirements for Benchmarking & Green Building Certification (5,000 sqft+)
 - Recommendations for Energy Efficiency



THANK YOU!

Questions?



Laura Thomas
Office of Sustainability
RVAgreen@rva.gov

