JAMES J. ROWLEY TRAINING CENTER

United States Secret Service

Master Plan Update

Draft Submittal





JAMES J. ROWLEY TRAINING CENTER

United States Secret Service

Master Plan Update - Draft Submittal

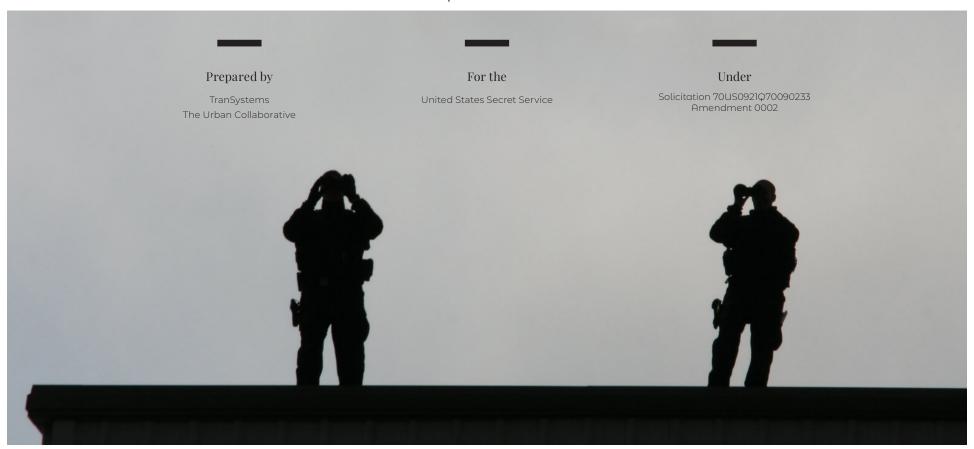












TABLE OF CONTENTS

01 EXECUTIVE SUMMARY	5	04 MASTER PLAN DEVELOPMENT	69	06 APPENDICES	107
Background	9	Overview	70	Requirements	108
Vision and Patterns	11	Courses of Action	72	Master Plan Criteria Documents	118
Illustrative Plan	12	Design Parti/Main Concept for Site Design	78	Visual Preference Survey	124
Prioritized Project List	13	Prioritized Project List	79	Strengths, Weaknesses, Opportunities,	130
Master Plan Process and Methodology	14	Illustrative Plan	80	Threats-Vision (SWOT-V)	
		Regulating Plan	81	Campus Exterior Architectural Standards	14
02 REQUIREMENTS	15	Master Plan Buildings	82	Sustainability/Resilience Features	153
Introduction	16	Conceptual Design Rendering	83	Landscape Standards	154
Organizational Chart	17	Stepwise Plan	84	Transportation Conditions	163
Organizational Requirements	18	Next Planning Steps	102	Network Plan - Proposed Bike Lanes	169
Existing Buildings	22			Cost Estimate Detail	170
Building Disposition	23	05 ENVIRONMENTAL ASSESSMENT (EA)	103	Interview Notes	193
Requirements	24	Supplemental EA Process	104	Acknowledgments	213
		Historic Summary	105	Acronyms	214
03 ANALYSIS	32	Historic Impacts and Regional Planning	106		
Overview	33				
Existing Conditions	34				
Site Analysis	35				
Key Interview Findings	56				
Existing Building Inventory	57				



USSS in Washington, DC

Image Source: USSS Instagram

EXECUTIVE SUMMARY

United States Secret Service James J. Rowley Training Center Master Plan

he primary goal of this task is to evaluate existing infrastructure against requirements and sequence a capital improvement program that closes capability gaps based on a stakeholder-defined vision for an update to the United States Secret Service (USSS) James J. Rowley Training Center (RTC) Master Plan (MP). The MP update *process* included field data collection, development of a planning vision, analysis of the existing infrastructure, the development of alternative Courses of Action (COAs), the preparation of the preferred COA, and identification of renovation and new construction projects to provide an effective and efficient plan.

Leadership Intent

Special Agent In Charge (SAIC) Durkan Key Leadership Intent

"Develop a list of capability gaps and projects."

"RTC is a hub for basic and INSERVICE training."

"Institutionalize ability to **plan** and **forecast** the **future new missions and technology**."

Key Drivers

- Improve the operational environment and training mission accomplishment
- Consolidate facilities
- Capital improvement program should include projects, probable cost, and phasing
- Focus on creating a functional campus with few large projects
- Use operations and maintenance funds where possible

Scope

- Prepare an Master Plan that evaluates existing infrastructure conditions against requirements and sequences a capital improvement program that closes capability gaps based upon a stakeholder-defined vision
- Identify USSS's needs, constraints, opportunities, objectives, and facility requirements to outline a program for consolidating and collocating facilities to improve the operational environment and mission accomplishment
- Accommodate external and inter-campus transportation
- Develop projects, probable costs, and phasing to create a facility program
- Coordinate with Regional Review Agencies including National Capital Planning Commission (NCPC) and Maryland-National Capital Park and Planning Commission (MNCPPC)
- Develop Supplemental Environmental Assessment or Environmental Impact
 Statement

"In support of the USSS mission, our planning vision is to create a functional training campus with consolidated operational nodes and modern facilities." - USSS RTC Vision

EXECUTIVE SUMMARY - CONTINUED

Mission Analysis

There are currently 351,693 gsf of facilities, 11 training venues, 60 range lanes (24 interior and 36 outside), 21 classrooms, and 1,145 parking spaces on the RTC campus. Training venues are mock-up facilities designed to train for emergency medicine, legal, control tactics, and basic policing skills.

- 172,202 gsf of facilities are in good condition including the Bowron, Merletti, and Eytchinson buildings
- 179,491 gsf of facilities are in substandard condition including the Wilkie, Baughman, and Wilson buildings
- Nine training venues are in good condition. The Simpson and Knight venues need to be renovated.

Requirements

RTC estimates the requirement for agents peaking in 2026.

- The maximum staff and instructors on campus will rise from 358 to 537 pax
- Special Agent (SA) and Uniform Division (UD) Basic
 Student population will rise from 264 to 408 students
- The maximum inservice students on campus at any given time will rise from 100 to 150 students

Total facility requirements to support the increased course offerings and students are:

- 918,543 gross square feet (gsf) including 45 classrooms,
 15 training venues, and 144 firing lanes
- 751 parking spaces (60 for government-owned vehicles (GOV), 137 for home-to-work vehicles, 150 for home-to-work in-service students, 404 for personally operated vehicles (POV) and vans; the parking requirement ratio of 2:1 MPO is used for POVs

Preferred COA

For each requirement, three courses of action were considered and measured. A preferred course of action was selected. The updated MP is the result of combining the preferred COAs. The preferred COA concentrates development in the campus core near the newer Bowron and Merletti buildings. It then provides consolidated training areas for ranges, driver training, canine, inservice training, physical training, and training venues that encircle the core. All the training areas are an easy ten-minute walk to the core allowing instructors, students, and staff to park once in the morning and walk to all training or meetings.

Master Plan

The MP provides:

- 63,923 gsf Defense Tactical Facility (DTF)
- 918,543 gsf of facilities including 111,296 existing,
 52,696 renovated, and 754,541 gsf new facilities
- 45 classrooms
- 15 training venues (216,736 gsf) including an Expanded Tactical Village, Raid Houses, and East Judgmental Range
- 144 indoor firing lanes including 48 25 yard (yd) lanes, 24 - 75 yd lanes, and 72 - 100 yd lanes
- 751 parking spaces including 60 spaces for GOVs, 287 for home-to-work, and 404 for POVs. To be both economically and environmentally frugal, the plan only provides new parking in the campus core to allow personnel to park there and walk during the day

*Project Number (PN)

**Gross Square Feet (gsf);

Square Yards (sy)

Projects

The team identified 16 USSS projects for the next twenty years and two capacity projects. There are 11 Procurement, Construction, and Improvements (PC&I) projects, five minor construction projects, and one renovation project. The projects are aligned in steps between FY24 (short-term), FY27 (long-term), and capacity. The order of the projects was determined by priority need and required construction sequencing.

NEW	NEW PROJECTS			
PN*	YEAR	BUILDINGS	gsf/sy**	
1	FY24	New Indoor Pistol Range (25 yd)	71,386 gsf	
2	FY24	New Physical Training Facility	82,536 gsf	
3	FY25	Defense Tactical Facility	63,923 gsf	
4	FY25	Protective Operations Facility & Expanded PODC Driving Pad	26,783 gsf 50,373 sy	
5	FY25	New Training Center	48,688 gsf	
6	FY26	Inservice Training Facility	70,679 gsf	
7	FY26	Upgrade Main Gate	-	
8	FY26	Logistics Facility	6,346 gsf	
9	FY26	New Firing Ranges (75 yd/100 yd)	281,054 gsf	
-	-	East Village Tactical Campus:	-	
10a	FY27	Renovate Simpson and Knight	39,134 gsf	
10b	FY27	Expand East Village Tactical Campus (1-1/2 stories)	76,531 gsf	
10c	FY27	Tactical Support Buildings	7,616 gsf	
10d	FY27	Expand East Range Operations	9,000 gsf	
10e	FY27	East Judgmental Range	10,000 gsf	
10f	FY27	East Airport Pad	555 sy	
11	FY27	Facility Maintenance Storage Yard	262 sy	
12	Capacity	Upgrade East Gate	16,231 gsf	
13	Capacity	Build Back-Up Generator	-	

EXECUTIVE SUMMARY - CONTINUED

MASTER PLAN CLASSROOMS (45)				
BUILDING	QUANTITY			
Merletti	12 Classrooms			
New Indoor Pistol Range	2 Classrooms			
New Physical Training Facility	2 Classrooms			
Protective Operations Facility	3 Classrooms			
New Training Center	6 Classrooms			
Inservice Training Facility	12 Classrooms			
New Firing Ranges	4 Classrooms			
Troysgate	1 Classrooms			
Drummond Building	1 Classrooms			
Kennel Building	1 Classrooms			
Magaw Shoothouse	1 Classrooms			
Total	45 Classrooms			

MASTER PLANNING TRAINING VENUES (15)			
BUILDING			
Bell Building (existing)			
Beltsville Mock Field Office (existing)			
Beltsville Interactive Training Simulator (existing)			
East Airport Pad (new)			
East Judgmental Range (new)			
Expanded Tactical Village with Tactical Support Buildings (new)			
Expanded Raid Houses (new ranch and townhomes)			
Helicopter Landing Zone			
Judgmental Range (existing)			
Knight Building (renovated)			
Magaw Shoot House (existing)			
Moran Building (existing)			
Simpson Building (renovated)			
Tactical Village (existing)			
DTF (new)			

BACKGROUND

History

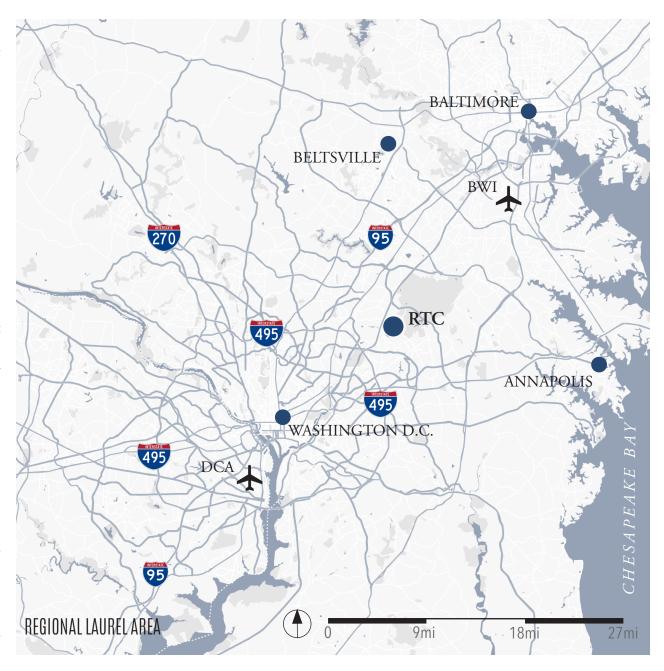
The USSS was established in 1865 to suppress the counterfeiting of U.S. currency. Today it carries out integrated missions of protection and investigations. The agency provides physical protection to the nation's highest elected leaders, visiting foreign dignitaries, facilities and major events. To ensure security, the USSS integrates innovative technologies and maintains a highly skilled and motivated workforce. The investigative mission has evolved from enforcing counterfeiting laws to safeguarding the payment and financial systems of the U.S. from financial and computer-based crimes.

Regional Context

The RTC is located in Laurel, Maryland along the Baltimore-Washington Parkway. It is 15 miles from the U.S. Capitol and a short distance from the Baltimore-Washington International Airport. The site is 2.5 miles north of the Capital Beltway at the northeast corner of the Baltimore-Washington Parkway and Powder Mill Road. The main access point is located off Powder Mill Road .The 2010 approved Sub-Region I Master Plan for Prince George's County, prepared by the MNCPPC and the Prince George's County Planning department, does not propose land use changes for the RTC area.

Local Context

RTC is adjacent to the northern boundary of the Beltsville Agricultural Research Center (BARC), operated by the U.S. Department of Agriculture. A portion of the Patuxent National Wildlife Research Center operated by the U.S. Geological Survey (USGS) is located northeast of the RTC. The closest commercial concentration is in Beltsville and Greenbelt, Maryland. The land to the north of



BACKGROUND - CONTINUED

RTC is a residential housing development called Snowden Pond. Snowden is approximately 200 acres of single-family houses. The closest public transportation stop is approximately 2.5 miles away from the campus entry. Beginning in 1969 RTC was originally constructed as the Consolidated Federal Law Enforcement Center to fulfill a growing need in the federal law enforcement community for high quality, cost-effective, and standardized training. The land was acquired from the BARC. In 1978 the consolidated federal law enforcement programs were moved to Glynco, Georgia and the RTC site was transferred to the USSS.

RTC is a low-density campus used for USSS specialized training. Facilities are spread out across the campus. Campus facilities include space for administrative support, classroom training, physical training, firearms training, canine training, driver training, scenario-based exercises, and other specialized training functions.

An RTC Master Plan was originally approved by the NCPC on March 7, 1985. The program of that November 1984 Master Plan included the Security and Computer Building, much of the Protective Driver Practical Exercise roadway network, the Tactical Response Training Area, the Counter-Sniper Range, the Observation Tower, the Physical Training Building, the Canine Building, and Vehicle Storage Building.

The Master Plan was updated in 1996. By 2003 much of the proposed build-out in the 1996 Master Plan was completed, notably the Bowron Administration Building, the Merletti Classroom Building, and the Magaw Shoot House. A Merletti addition was called for in the 1996 Master Plan.

In 2003, the USSS was formally transferred from the U.S. Department

of the Treasury to the newly created U.S. Department of Homeland Security (DHS) along with 22 other federal agencies and entities. Soon afterward, the USSS began considering how the RTC could support anticipated organizational changes and modifications to its training mission. These changes were reflected in the development of area requirements to support RTC activities in 2006 and in an update to the RTC Master Plan, which was approved in 2012 and a received RTC Master Plan in 2017.

VISION AND PATTERNS

"In support of the USSS mission, our planning vision is to create a functional training campus with consolidated operational nodes and modern facilities." - RTC Planning Vision

During the workshop stakeholders established a planning vision for the RTC Campus through an interactive group process. The highlighted sections of the vision (functional training campus, consolidated operational nodes, and modern facilities) represent facility themes/goals. From the goals, specific planning patterns (such as accessible firearms training) were identified. The planning patterns are listed here and incorporated within the proposed RTC illustrative plan.

Consolidated Training Nodes

- Accessible Firearms Training
- 2. Driver Training
- Simulated City Training
- Simple Raid Houses
- Concrete Curbs and Gutters
- Varied Building Typology
- 7. Air Ops
- Main Ops (classrooms & assembly) 8.
- Training Support

Functional Training Campus

- Signage Standards
- Efficient Layouts
- **Grouped Buildings**
- Perimeter Parking
- Car Parks 5.
- Parkway Buffer
- **Compact Core** 7.
- Main Quad
- Continuous Security Fence
- **Functional Gate** 10.
- **Underground Utilities**

Modern Facilities

- Logistics Management
- 2. Facilities Maintenance
- Flex-Use Buildings
- Light-Filled Buildings
- Narrow Wings
- **Enclosed Stairwells**
- 7. Resilient Structures
- Permanent Structures
- Two-Story Buildings (3 max)
- 10. Consistent Building Materials
- 11. Consistent Colors
- 12. Rhythm of Windows
- 13. Ample Windows
- 14. Operable Windows
- 15. Street-front Openings
- 16. Usable Basements
- 17. Integrated Arcades
- 18. Hip Roofs
- 19. Punched Windows
- 20. Ribbon Second Floor Windows
- 21. Curtain Walls
- 22. Deep Overhangs

- 23. Blocked Ground Floor Windows
- 24. Block and Stone Facade
- 25. Storefronts
- 26. Metal Roofs
- 27. Window Sills
- 28. Metal Trim
- 29. Visible Entries
- 30. Hidden Utilities
- 31. Natural Color Palette

ILLUSTRATIVE PLAN

PRIORITIZED PROJECT LIST

During the workshop, stakeholders identified, validated, and prioritized key infrastructure projects needed to meet the critical mission and quality of life needs of the campus and its tenants. One

FY24 PROJECTS

- **1.** New Indoor 25yd Pistol Range (Wilkie Replacement). Demolish existing facility (71,386 gsf) Weapons Ordnance and Explosives and Emergency Services will move in a temporary building until FY26 Inservice building is constructed.
- 2. New Physical Training Facility: New Physical Training Facility on West Side. Demolish the existing facility (82,536 gsf).

FY25 PROJECTS

- **3.** DTF: Specialized scenario training facility and 40 contiguous acres of White House grounds mock-up (63,923 gsf).
- **4.** Protective Operations Facility: Replaces the existing building (26,783 gsf), includes garage, vehicle display area, UAS, and enlarge driver operations pad (50,373 sy).
- **5.** New Training Center: Mirror image of Merletti, includes classrooms, large training room, and staff office spaces (48,688 gsf).

FY26 PROJECTS

- 6. Inservice Training Facility: Build new Inservice Building. Includes Special Operations, Emergency Services, Joint and External Training (JET), Regional Inservice Training (RIST), Counter Surveillance, Protective Detail, and classrooms (70,679 gsf).
- **7.** Upgrade Main Gate: Rework the main entry road to provide additional stacking space for cars before they enter the campus.

of the most important outputs of the MP is the following integrated list of executable projects that are tied to a plan. Supported by the USSS Strategic Plan (2018), the prior Master Plan Update (2017),

- **8.** Logistics Facility by Main Gate (6,336 gsf): A new warehouse with associated offices and delivery space immediately off the main entry. Includes demolition of existing logistics building.
- **9.** Build New Firing Ranges 75 yd/100 yd (281,054 gsf) and demolish outdoor ranges.

FY27 PROJECTS

10. EAST VILLAGE TACTICAL CAMPUS

- **a.** Renovate Simpson & Knight: Move offices and storage out of these buildings (39,134 gsf).
- **b.** Expand Tactical Village Campus located adjacent to existing, expands tactical training (76,531 gsf).
- **c.** Tactical Support Building: Facility in east training node with classrooms, bathrooms, showers, lockers, etc. (7,616 gsf).
- **d.** Expand Range Operations: Add Range Operations Adjacent to Bell, simulate various home (Ranch and Townhouse) types (9,000 gsf).
- **e.** East Judgmental Range: Build New East Judgmental Range Tactical Operations (10,000 sf).
- **f.** East Airport Pad: Build new Airport Pad on East Side (555 sy)
- **11.** Facility Maintenance Storage Yard: Facilities Maintenance and Storage/Administration/Yard (262 sy).

CAPACITY PROJECTS

- **12.** Upgrade East Gate (16,231 qsf).
- 13. Back-up Generator

and this 2021 Master Plan Update. There are 16 project:, 11 PCI, five minor construction, and one renovation projects.

THE BASICS - RTC CAMPUS

- **439** Acres
- 15 Buildings
- 15 Venues
- **45** Classrooms
- 144 Firing Ranges
- 751 Parking Spaces (60 GOV, 287 Home-to-Work, 404 POV)



USSS Training Exercise

Source: USSS Instagran

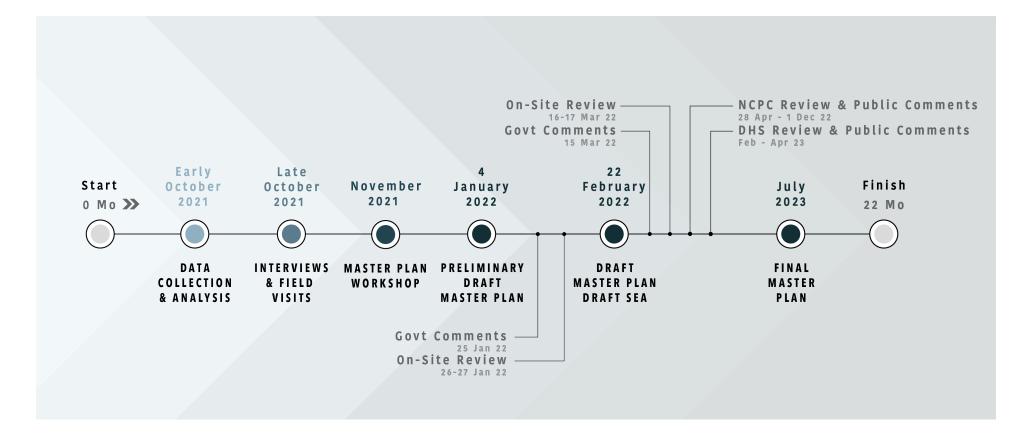
MASTER PLAN PROCESS AND METHODOLOGY

The MP update process includes field data collection; stakeholder interviews; development of a planning vision; completion of strengths, weaknesses, opportunities, and threats (SWOT) analysis; a visual preference survey; analysis of the existing infrastructure; an analysis of requirements; the development of alternative Courses of Action (COA); the preparation of preferred COAs; and identification of renovation and new construction projects to

provide an effective and efficient facilities implementation plan.

The USSS RTC process began with field data collection and stakeholder interviews in October of 2021. In November 2021 the team held a MP Workshop including the development of a MP Vision, completion of SWOT analysis and Visual Preference Survey (VPS), additional analysis of the existing infrastructure,

analysis of requirements, development of alternative courses of action, selection of preferred COAs, and identification of new and renovation projects to provide a complete campus.





USSS in Washington, DC

Image Source: USSS Instagram

REQUIREMENTS

Introduction

n order to develop the RTC MP requirements, one needs to understand the USSS and RTC mission, vision, organization, and operations in order to translate the mission, vision, and operations into facility requirements.

According to Transystems/Urban Collaborative Joint Venture interviews, the RTC will serve as the primary location for USSS Basic and Inservice Training for the foreseeable future. RTC is the primary location for the USSS Office of Training with initial Basic training occurs at FLETC before recruits transfer to RTC and minor inservice training occurs at USSS regional offices. RTC provides a range of training utilized by special agents, UD officers, special officers, and physical security specialists throughout their careers. Basic recruits undergo intense training in firearms, marksmanship, use-of-force/control tactics, emergency medical techniques, financial crimes detection, physical site/event protection, and water survival training. Also on campus, veteran law enforcement, executive/managerial, administrative, and technical personnel are offered specialized and technically based curriculum. The USSS and RTC also support valued law enforcement partners from across the country by providing protective security, financial crimes, specialized tactical, and weapons training to other federal, state, and local law enforcement agencies.

RTC is currently organized with eight branches. Basic Skills, Uniformed Division,

Advanced Skills, Specialty Programs, and Use of Force branches offer training. The other branches, Academic Processes, Student Services, Training and Administration, and Facilities support the training. The following charts provide details for each of the branches.

"We have an integrated mission of protection and financial investigations to ensure the safety and security of our protectees, key locations, and events of national significance. We also protect the integrity of our currency and investigate crimes against the US financial system committed by criminals around the world and in cyberspace."

- USSS Mission

"We will be world-class in protection and financial crimes investigations, including in cyberspace, through developing strong leaders, employing cutting edge tools, delivering elite law enforcement training, and empowering our workforce." - USSS Vision

ORGANIZATIONAL CHART

ORGANIZATIONAL REQUIREMENTS

ORGANIZATIONAL REQUIREMENTS - CONTINUED

ORGANIZATIONAL REQUIREMENTS - CONTINUED

ORGANIZATIONAL REQUIREMENTS - CONTINUED

EXISTING BUILDINGS

^{*} has a basement

BUILDING DISPOSITION

REQUIREMENTS

Requirements Overview

The requirements used for the RTC MP are based on future RTC facility requirements. Future RTC facility requirements are developed from the current class load, authorized manning, vehicles, equipment, and, most importantly, the anticipated growth in class loads, manning, and equipment. This data is then interpreted into facility requirements using the DHS Real Property Management Directive Number 15.2.6.1, dated 19 Nov 2020 and the DHS Federal Protective Service (FPS) Instruction Manual 15.2.6.1-01 dated 20 Oct 2020. Parking is based on the NCPC 2:1 persons per parking space except for the senior leadership position, which gets a dedicated space. Training requirements are based on the number of UD and SAs required across the Service. RTC estimates that the requirement for USSS UD and SAs will increase and peak in 2026 and then level out below the 2026 peak, but above the current number of UD and SAs. It is anticipated that the number of classes, both basic and inservice, on-campus will grow and level out at 50% above the current load, and the maximum number of students on campus as well as instructors and staff will also grow and level out at 50% above the current load. It is estimated that:

- The number of basic (SA and UD) classes will increase the SA /UD students on campus at one time from 264 to 408
- The number of inservice, special operations, and joint classes will increase the students on campus at one time from 100 to 150
- The number of permanent party instructors and staff on campus will increase from 358 to 537
- The total number of people on campus is estimated to grow from 722 to 1,095

Parking Requirements

Parking is based on an NCPC ratio of 2:1 (2 persons per parking space) except for one senior leadership position, GOVs, and hometo-work vehicles which use a 1:1 ratio. RTC uses vans for students who are not permanently assigned to the Washington, DC area. There are currently 40 GOV vans which will grow to 60 GOV vans and 225 home-to-work vehicles which will grow to 287.

The total facility requirements to support the increased course offerings and students are:

- 918,543 gsf of facilities
- 45 classrooms
- 15 training venues with 160,736 gsf
- 144 firing lanes
- 751 parking spaces

Parking Requirements:

 Total current space requirement is 514 spaces and future space requirement is 751 spaces

Facilities and Venues to Remain

Facility analysis identified seven buildings with a total of 94,460 gsf and seven venues with a total of 15,209 gsf that could be used in the future. The facilities and venues that can be kept are below.

Facility and Venue Renovations

There is one current building (12,250 gsf) and three venues (40,446 gsf) that can be renovated and used in the future. The Knight Building is currently dual use.

Information on this page has been deemed sensitive and has been removed from this version of the document for security purposes.

New Facility and Venue Requirements

With the buildings that can be kept and those that can be renovated, the requirement for new buildings and venues is 754,542 gsf and the requirement for a defined maintenance yard of 2,357 square yards (sy).

NEW FACILITIES REQUIRED		
BUILDING	SIZE	
Indoor Pistol Range (25 yd)	71,386 gsf	
Physical Training Facility	82,536 gsf	
Protective Operations Facility	26,783 gsf	
Training Center	48,688 gsf	
Inservice Training Facility	70,679 gsf	
Logistics Facility	6,346 gsf	
Firing Ranges (75 yd/100 yd)	281,054 gsf	
Facility Maintenance Yard	262 sy	
Total	587,472 gsf; 262 sy	

NEW TRAINING VENUES REQUIRED		
BUILDING	SIZE	
DTF	63,923 gsf	
Expanded PODC Driving Pad.	50,373 sy	
Expand Tactical Village (1-1/2 stories)	76,531 gsf	
Tactical Support Building	7,616 gsf	
Expanded Range Operations (new ranch and townhouses)	9,000 gsf	
East Judgmental Range	10,000 gsf	
East Airport Pad	555 sy	
Total	167,070 gsf, 50,928 sy	

The following pages identify the detailed requirements for the new buildings and venues that need to be provided.



USSS near the Washington Monument

ANALYSIS

Overview

ection three reviews the site analysis conducted to understand the site, the buildings, the training venues, and the customer through customer interviews. Site investigation and analysis included the existing condition, site analysis, building disposition, building age, building height, developable area, utility conditions, facility use and user, environmental analysis, and parking analysis. The MP team walked through every RTC facility, noting its condition as well as special customer requirements. Notes are highlighted in the building analysis section. Following the building analysis is the Visual Preference Survey, which identifies important building patterns to achieve RTC goals. The SWOT analysis identifies strengths of the campus to maintain, weaknesses to remediate, opportunities to leverage, and threats to avoid. The analysis guided COA development, evaluation, and selection.

EXISTING CONDITIONS

SITE ANALYSIS

Information on this page has been deemed sensitive and has been removed from this version of the document for security purposes.

Analysis teams assessed the natural forces acting on the site, including wind, solar paths, and locations of natural elements such as wetlands, woodland, and water. The wind comes primarily from the northwest. The sun path during the winter is short, which could cause insufficient sunlight to a majority of buildings on campus. There are two main water reservoirs on campus: a small lake on the west side of campus and a pond on the east side of campus.

A lot of the campus consists of wooded areas and wetlands except for primary roads and parking lots. Most of the development has occurred on the southwest side of campus.

BUILDING AGE

Information on this page has been deemed sensitive and has been removed from this version of the document for security purposes.

The above map visually shows ranges of construction dates for RTC buildings. Generally, older buildings require more maintenance. While there are some newer facilities on-campus, there are numerous buildings constructed in the 1970's. Fortunately, however, none are historically significant and should be either demolished or renovated.

BUILDING HEIGHT

Information on this page has been deemed sensitive and has been removed from this version of the document for security purposes.

One method for determining the efficiency of land use is to examine the RTC's building heights. Analyzing a building based on its number of floors indicates how densely square footage is distributed over the site. Facilities with only one story use land least efficiently, while multi-story facilities are more efficient. Most of the buildings on campus are one or two stories. In future development there needs to be a focus on building two and three story buildings

where the mission allows and to build new buildings with the capability to accept additional floors.

DEVELOPABLE AREA

Information on this page has been deemed sensitive and has been removed from this version of the document for security purposes.

The site analysis includes the creation of a Developable Area Map, which takes the applicable constraints and identifies areas for development consistent with those constraints. Developable Area 1 represents the least constrained land which can be developed with little preparation to the site, including areas around current

USE AND USER

Information on this page has been deemed sensitive and has been removed from this version of the document for security purposes.

An analysis team conducted a planning assessment of building use across the RTC campus as shown in the map above. Building uses include classrooms, offices/administration, security/site access, student support, and training and tactical. Training and tactical buildings are clustered on the southwest side of campus

by the main entrance as well as the northeastern side of campus. Classrooms, administration, and security buildings are located near the training and tactical buildings by the main entrance, with student support building located on the northwest side of campus. Most of the buildings are training and tactical facilities.

ENVIRONMENTAL ANALYSIS

Information on this page has been deemed sensitive and has been removed from this version of the document for security purposes.

The above map shows the results of a planning assessment of natural areas, greenspace, and trees across the James J Rowley Training Center campus. Many patches of wetlands are close to the two water bodies on campus, including the pond on the west side and the pond on the east side. Both water bodies are intended to be stormwater ponds. These wetlands should be avoided where

possible. There are new trees as of 2014 that are located along South Perimeter Road, North Perimeter Road, as well as around the main buildings on the northeast side of campus and southwest side of campus. There are three existing bio-retention facilities on campus, both located around the K9 facility.

UTILITY ANALYSIS

UTILITY ANALYSIS - CONTINUED

UTILITY ANALYSIS: WATER

UTILITY ANALYSIS: SANITARY SEWER

UTILITY ANALYSIS: NATURAL GAS

UTILITY ANALYSIS: ELECTRIC

UTILITY ANALYSIS: STORMWATER

STREET CONDITION

PARKING ANALYSIS

PARKING LOT AND STREET SECTION ID

PARKING LOT AND STREET SECTION ID ANALYSIS LOG

PARKING LOT AND STREET SECTION ID ANALYSIS LOG - CONTINUED

PARKING LOT AND STREET SECTION ID ANALYSIS LOG - CONTINUED

ASSETS

LIABILITIES

KEY INTERVIEW FINDINGS

EXISTING BUILDING INVENTORY



USSS at an Obama Speech

Image Source: USSS Instagram

MASTER PLAN DEVELOPMENT

Overview

To develop the MP, the team took the site analysis, facility analysis, site constraints, facility requirements, utility condition, environmental factors, and user input and combined them with identified capability gaps to develop potential COAs. These COAs were then analyzed against the RTC MP vision and goals to determine the preferred COA.

The preferred COAs from each capability gap were then combined into the selected MP which is depicted in the Illustrative Plan. The COAs development process typically offers a low-cost alternative, medium cost alternative, and high-cost alternative to allow the planning team to see what is possible with different levels of funding. Sometimes one of the less costly COAs is preferred because it fulfills the capability gap without using as much funding. Other times it fulfills the capability gap enough that it is selected over a more costly COA.

Prior to COA measurement, the planning team (including stakeholders) weighted each of the MP goals to identify which goals are more important than others. For RTC, the most important goal was to provide a functional campus, with a weighting of 3.0. Modern facilities came in second with a weight of 2.7. Consolidated training nodes came in third with weight of 2.5, while cost had a weight of 2.0. When the COAs are measured, each COA is compared to the three goals: 1) Provide a functional campus, 2) Provide consolidated nodes, and 3) Provide modern facilities and ranked from 0 to 3 for each goal. The relative cost for

the COAs is considered, with the higher cost receiving a lower score. The measurement for each goal is multiplied by the weight to provide a subtotal. The subtotals are added together to provide a final score. The COA with the highest score is considered the selected COA. If the two highest scores are extremely close, additional factors can be considered (this last step was not required for the RTC capability gaps and COAs). The comparison chart provided in this report shows what percentage of the goals of the goals each COA covers. The COA with the highest score is the one that fulfills the most goals.

For RTC, the most important goal was to provide a functional campus. Based on key stakeholder input, this means pushing parking to the exterior to create a walkable campus with more intense uses concentrated in the interior.

MASTER PLAN DEVELOPMENT - CONTINUED

Capability Gap Example

As an example, one of the main RTC capability gaps is the lack of range space and lanes. Prior to the development of COAs, the team weighted each of the MP goals. Providing a functional campus was weighted 3.0, while providing modern facilities was weighted 2.7. Consolidating training nodes was weighted 2.5 and cost was weighted 2.0. The maximum score possible for a COA was 30.51 points. There were three possible COAs to fulfill the gap: 1) Status Quo - Leave the existing range and renovate it, 2) Build a new range on the west side, and 3) Build a new range on the east side. The COAs were then measured with the Status Quo receiving

a subtotal of 12.0 (39 percent of the maximum possible score), COA 2 receiving a subtotal of 28.51 (93 percent of the maximum possible score), and COA 3 receiving 72 percent of the maximum possible score). COA 2 had the best score and received the highest percent of the maximum possible score. It was then used on the Preferred COA Master Plan.

It is possible to have preferred COAs that conflict with each other when they are combined in the Illustrative Plan. When this occurs, the MP team will review the conflicting COAs and see if modifications can be made to use both COAs in a modified form.

Otherwise, it may be preferred to select a lower rated COA for one of the capability gaps. The MP team shall use its best judgment. This situation was not incurred during development of the RTC MP.

The next pages list the 13 RTC MP capability gaps, the COAs considered for each, the percentage of the maximum possible score received for each COA, and the preferred or selected COA. These COAs were then combined into the Illustrative Plan. The COAs are presented in the order in which their corresponding projects are shown in the implementation plan.

COURSES OF ACTION

DESIGN PARTI/MAIN CONCEPT FOR SITE DESIGN

PRIORITIZED PROJECT LIST

During the workshop, stakeholders identified, validated, and prioritized key infrastructure projects needed to meet the critical mission and quality of life needs of the campus and its tenants. One of the most important outputs of the MP is the following integrated

list of executable projects that are tied to a plan. Supported by the USSS Strategic Plan (2018), the prior Master Plan Update (2017), and this 2021 Master Plan Update. There are 13 projects, six PCI, seven minor construction, and one renovation project.

FY24 Projects

- 1. New Indoor 25yd Pistol Range: New building for Wilkie Replacement. Demolish existing facility (71,386 gsf) Weapons Ordnance and Explosives and Emergency Services will move in a temporary building until FY26 Inservice building is constructed.
- 2. New Physical Training Facility: New Physical Training Facility on West Side. Demolish the existing facility (82,536 gsf)

FY25 Projects

- **3.** Defense Tactical Facility: Specialized scenario training facility and 40 contiguous acres of White House grounds mock-up (63,923 gsf)
- **4.** Protective Operations Facility: Replaces the existing building (26,783 gsf), includes garage, vehicle display area, UAS, and enlarge driver operations pad (50,373 sy)
- **5.** New Training Center: Mirror image of Merletti, includes classrooms, large training room, and staff office spaces (48,688 gsf)

FY26 Projects

- 6. Inservice Training Facility: Build new Inservice Building. Includes Special Operations, Emergency Services, Joint and External Training (JET), Regional Inservice Training (RIST), Counter Surveillance, Protective Detail, and classrooms (70,679 gsf)
- 7. Upgrade Main Gate: Rework the main entry road to provide additional stacking space for cars before they enter the campus.
- **8.** Logistics Facility by Main Gate (6,336 gsf): A new warehouse with associated offices and delivery space immediately off the main entry. Includes demolition of existing logistics building.
- **9.** Build New Firing Ranges 75 yd/100 yd (281,054 gsf) and demolish outdoor ranges.

FY27 Projects

- **10.** East Village Tactical Campus
 - **a.** Renovate Simpson & Knight: Move offices and storage out of these buildings (39,134 gsf)
 - **b.** Expand Tactical Village Campus located adjacent to existing, expands tactical training (76,531 gsf)

- Tactical Support Building: Facility in east training node with classrooms, bathrooms, showers, lockers, etc. (7,616 gsf)
- d. Expand Range Operations: Add Range Operations Adjacent to Bell, simulate various home (Ranch and Townhouse) types (9,000 gsf)
- e. East Judgmental Range: Build New East Judgmental Range Tactical Operations (10,000 sf)
- f. East Airport Pad: Build new Airport Pad on East Side (555 sy)
- **11.** Facility Maintenance Storage Yard: Facilities Maintenance and Storage/Administration/Yard (262 sy)

Capacity Projects

- 12. Upgrade East Gate (16,231 gsf)
- 13. Back-up Generator

ILLUSTRATIVE PLAN

REGULATING PLAN

Information on this page has been deemed sensitive and has been removed from this version of the document for security purposes.

The Regulating Plan defines parcels, uses, building heights, parking locations, build-to lines, and required entries. At the same time, the plan provides planners maximum flexibility for the future. The development process of this plan followed the steps shown to the right:

- 1. Define Development Parcels
- 2. Establish Build-To-Lines
- 3. Determine Allowable Parking Locations
- 4. Establish Building Height (Min/Max)*
- 5. Locate Required Entries
- 6. Define Allowable Uses

NOTE: Maximum building height recommended should ensure limited visual impacts to cultural resources beyond the campus.

MASTER PLAN BUILDINGS

CONCEPTUAL DESIGN RENDERING



STEPWISE SEQUENCE 1 (FY24)

Information on this page has been deemed sensitive and has been removed from this version of the document for security purposes.

The following pages graphically identify the project steps to be followed to execute the ADP. The order of the projects was determined by priority need and required construction sequencing. The culminating step is the Illustrative Plan, which graphically represents the selected COAs including the USSS RTC Vision, planning patterns, and workshop attendee recommendations. Each step identifies the projects within the step, the location of

the project, whether the project is dependent on any proceeding projects, any building or parking demolition involved with the project, and any project specific notes. Each step shows the information graphically. The very last step presents the Illustrative Plan image. Each step also identifies the parking required for the step, the parking provided, the parking removed, the delta for those changes, and the running delta.

STEPWISE SEQUENCE 2 (FY24)

STEPWISE SEQUENCE 3 (FY 25)

STEPWISE SEQUENCE 4 (FY 25)

STEPWISE SEQUENCE 5 (FY 25)

STEPWISE SEQUENCE 6 (FY26)

STEPWISE SEQUENCE 7 (FY26)

STEPWISE SEQUENCE 8 (FY26)

STEPWISE SEQUENCE 9 (FY26)

STEPWISE SEQUENCE 10A (FY27)

STEPWISE SEQUENCE 10B (FY27)

STEPWISE SEQUENCE 10C (FY27)

STEPWISE SEQUENCE 10D (FY27)

STEPWISE SEQUENCE 10E (FY27)

STEPWISE SEQUENCE 10F (FY27)

STEPWISE SEQUENCE 11 (FY27)

STEPWISE SEQUENCE 12 (CAPACITY)

STEPWISE SEQUENCE 13 (CAPACITY)

NEXT PLANNING STEPS

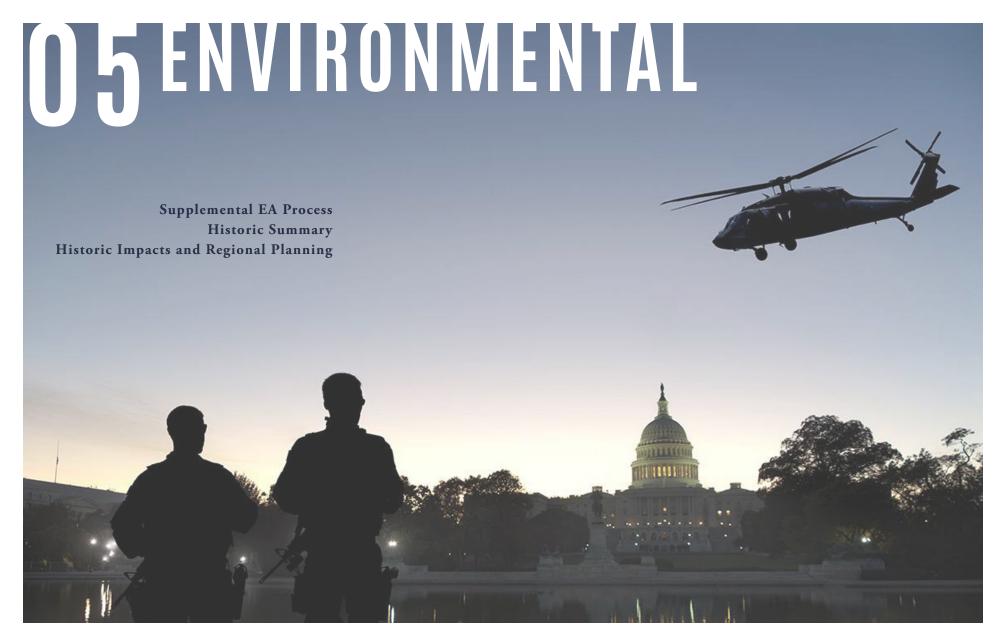
Next Planning Steps for the USSS

- 1. Conduct staff survey
- 2. Prepare Customer Concept Document (CCD) 15% Design with requirements analysis, programs, site plans, floor plans, elevations, sections, system narratives, cost estimates, energy model, Leadership in Energy and Environmental Design (LEED) model, Low Impact Design (LID) model, and programming documents for:
 - Indoor Pistol Range (25 yd)
 - New Physical Training Facility
 - DTF
 - Protective Operations Facility &
 - Expanded PODC Driving Pad
 - Training Center
 - Inservice Training Facility
 - Main Gate Upgrade
 - Logistics Facility
 - Firing Ranges (75 yd/100 yd)
 - Simpson and Knight Renovation
 - Tactical Village (1-1/2 stories) Expansion
 - Tactical Support Building
 - Range Operations Expansion
 - East Judgmental Range
 - East Airport Pad
 - Facility Maintenance Yard
 - East Gate Upgrade
 - Back-Up Generator



Workshop Stakeholders Rendering the Regulating Plan

Image Source: November 2021 MP Workshop



USSS at the Capitol Building

Image Source: USSS Instagram

SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT

Supplemental EA Process

The USSS prepared a Supplemental Environmental Assessment (SEA) to determine the potential impacts that implementation of the 2023 RTC Master Plan Update would have on the natural and man-made environment. This SEA was prepared in accordance with the National Environmental Policy Act (NEPA) of 1969, as amended, the Council on Environmental Quality (CEQ) regulations implementing NEPA [40 CFR 1500-1508 (1986)], and the DHS Directive 023-01, Rev 01, Implementation of the National Environmental Policy Act and Instruction Manual 023-01-001-01 Rev 01.

In November 2021, the USSS (through Urban Collaborative-Transystems Team) sent scoping emails to agencies, organizations, and public officials requesting comments or concerns at the start of the planning process. Following the precedent of the 2012 and 2017 Master Plan processes, the planning team sent emails to the following organizations:

- Advisory Council on Historic Preservation (ACHP)
- Council on Environmental Quality
- Department of Homeland Security (DHS)
- Maryland Department of Natural Resources (MDNR)
- Maryland Department of Planning (MDP)
- Maryland Historical Trust (MHT)
- Maryland-National Capital Park and Planning Commission (M-NCPPC)
- National Aeronautics and Space Administration (NASA)/ Goddard Space Flight Center
- National Capital Planning Commission (NCPC)

- National Park Service (NPS)
- Other Local, State, and Federal Government Officials
- Prince George's County Department of Environmental Resources
- Prince George's County Department of Public Works and Transportation
- Prince George's County Fire/Emergency Management Services (EMS)
- Prince George's County Police
- Snowden Pond Montpelier Homeowners' Association
- U.S. Army Corps of Engineers (USACE)
- U.S. Department of Agriculture
- U.S. Fish and Wildlife Service (USFW)
- U.S. Geologic Survey Patuxent Wildlife Research Center

The USSS sent scoping emails to the Delaware Nation of Oklahoma and the Delaware Tribe in Oklahoma and Kansas on 3/14 2022.

The DHS (Jennifer Haas), NCPC (Charlton Hart and Lee Webb), MDP (Beth Cole), M-NCPPC (Christine Osei), and ACHP (Katherine Kerr) attended the Master Plan Workshop Kick-Off virtually and provided input. Their comments included being sure to conserve the tree stand along the Baltimore-Washington Parkway to ensure the historic character of the parkway, carefully following the EA processes to include any potentially interested parties, and capturing any significant USSS history that occurred at the site. They did not identify any of the buildings as architecturally significant. They did ask for a tour of the site. The USSS offered one on 18 November 2021, but none of the representatives could attend. The USSS set up a second trip in 2022, which was attended.

An online US Fish and Wildlife Service (USFWS) Information for Planning and Consultation (iPAC) inquiry in June 2022 indicated that 18 migratory bird species may use habitat on the RTC campus. The iPAC indicates that there are no federally-listed threatened or endangered migratory birds within the campus area and one threatened mammal, the Northern Long-Eared Bat (NLEB). No critical habitat was designated for this species on the RTC campus. In February 2023, USSS received a determination from USFWS that the Preferred Action may affect the NLEB. The letter verifies that the Programmatic Biological Opinion (PBO) satisfies and concludes USSS responsibilities for this Action under the Endangered Species Act (ESA) Section 7(a)(2) with respect to the NLEB. The NLEB roost in trees during the summer. USSS will complete clearing activities outside of the active bat season (April 1 to September 30). The determination is good for one year. For actions not completed within one year, USSS must update and resubmit the information required in the iPAC.



Significant separation between development clusters, which facilitates preservation of relatively large forested areas on site

SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT - CONTINUED

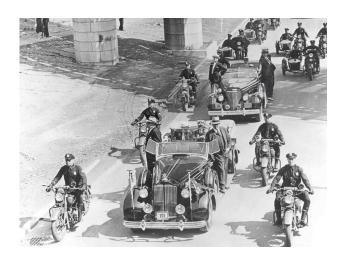
Historic Summary

The Transystems - Urban Collaborative Joint Venture Team toured RTC in Laurel, Maryland, to explore current conditions and appropriate updates to the 2017 Master Plan. Since the USSS oversees the approximately 500-acre wooded site, the agency must comply with the requirements of Sections 106 of the National Historic Preservation Act (NHPA). Section 106 requires Federal agencies to consider the effects on historic properties of undertakings they carry out, assist, fund, permit, license, or approve prior to initiating an undertaking. It is a four-step consultative process that gives the Advisory Council on Historic Preservation (ACHP), consulting parties, and the public the opportunity to comment on an undertaking prior to the agency making a final decision.

In previous RTC projects, such as the 2017 Master Plan, the Secret Service and Maryland Historic Trust (MHT) did not consider the facility (campus) eligible for listing on the National Register for Historic Places. However, the facility is now 50-years old and retains much of its original historic integrity, requiring the USSS to evaluate the property in consultation with MHT and interested Tribal Historic Preservation Officers (THPOs) or Indian Tribes. The final decision regarding National Register eligibility is made by the Federal agency after it receives the concurrence by the State Historic Preservation Officer (SHPO). Should there be a dispute among the agency and SHPO, the determination of eligibility is referred to the Keeper of the National Register. Service must consider the effects of future activities on historic properties and explore how such effects can be avoided, minimized, or mitigated.

In discussions with the Maryland Historical Trust, UC clarified the next steps required by the Secret Service to evaluate RTC for both Section 110 and 106 purposes given that it has reached the 50 year threshold. The determination of eligibility (DOE) will be an important tool for making a definitive and justifiable evaluation of NR eligibility as well as defining the Criteria of Significance (A, B, C, or D). Further, it establishes a period of significance, if any, boundaries, contributing and non-contributing resources, associated landscape elements. The federal agency makes the formal determination and submits it to the SHPO for review and concurrence. If they are unable to reach concurrence and the SHPO objects, the federal agency can take it to the Keeper of the NRHP for a final decision.

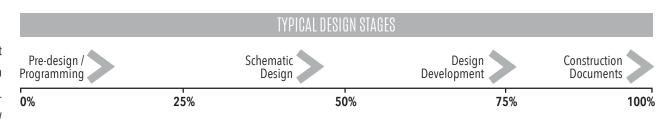
Transystems/Urban Collaborative is preparing a DOE. The DOE provides an evaluation of RTC's NRHP Eligibility. It found that the RTC does not meet any of the Criteria of Significance. Transystems/ Urban Collaborative provided the DOE to RTC to provide to the Maryland SHPO, the Maryland Historic Trust. The DOE is not part of the SEA or Master Plan process.



SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT - CONTINUED

Historic Impacts and Regional Planning

Because RTC is in the Washington DC metropolitan area, the Secret Service is also required to consult with NCPC in developing an updated Master Plan. NCPC was involved in the October workshop. This draft document was provided to NCPC for an official review which is ongoing. This page outlines the NCPC review process.





RTC NCPC PROCESS OVERVIEW

- NCPC does not approve the Master Plan, but rather makes recommendations the agency that submits the
- It distributes the Master Plan to the Federal, State, and local agencies for Intergovernmental reviews (Typically takes 60 days)
- NCPC considers comments from the Intergovernmental review as well as NCPC policies when drafting recommendations

PRE-SUBMISSION BRIEFING

Applicant schedules and attends Pre-Submission Briefing with NCPC staff.

Applicant receives feedback from NCPC staff to guide project formulation and submission process.

CONCEPT REVIEW (IF APPLICABLE)

Commission provides input into project alternatives, and the general consistency of the alternatives with NCPC policies.

NEPA: Scoping process initiated

Sec. 106: Consultation initiated

PRELIMINARY REVIEW

Commission reviews the project for consistency with NCPC plans and policies and planning principles.

NEPA: Draft environmental document issued

Sec. 106: Assessment of

Effects issued

FINAL REVIEW

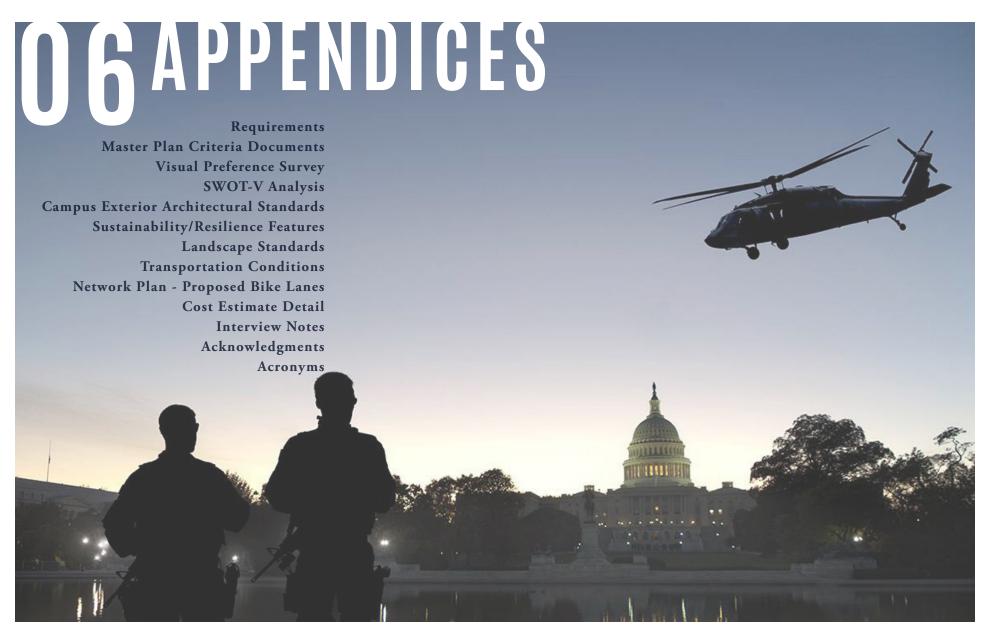
Commission confirms the design details developed since Preliminary Review.

NEPA: Decision document

complete

Sec. 106: Consultation

complete



USSS at the Capitol Building

Image Source: USSS Instagram

REQUIREMENTS

Security Requirements

The scope for security upgrades at RTC is based on the 2015 Physical Security Survey. The survey identified upgrades to the main entry and the perimeter fence and trail. The upgrades to the perimeter fence and trail were completed.

The main entry is close to Powder Mill Road and does not provide enough drive space to cue the vehicles wanting to enter the campus without blocking Powder Mill Road or requiring that vehicles use the shoulder of Powder Mill Road. The main entry does not have space to inspect large trucks before they enter the campus. Large trucks are required to go to the west entrance, which is not manned 24 hours a day, and security personnel are sent to the west gate to inspect the truck.

Sustainability/Resilience Requirements

Government agencies are subject to the sustainable and resilience design requirements and expectations set forth in two executive orders - the Executive Order on Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability dated 8 December 2021 and Executive Order 13961 Governance and Integration of Federal Mission Resilience dated 7 December 2020. The Executive Order on Catalyzing Clean Energy Industries and Jobs requires 100 percent carbon pollution-free emission (CFE) by 2030 at least half of which are locally supplied clean energy, a new-zero emission building portfolio by 2045, and net-zero emissions from federal procurement no later than 2050. Executive Order 13961 increases the resilience of the executive branch and implements a strategy to reduce the current reliance on reactive relocation of personnel and enhance a proactive posture that minimizes disruptions,

distributes risk to the performance of National Essential Functions (NEF) and maximizes the cost-effectiveness of actions that ensure continuity of operations, continuity of government, and enduring constitutional government.

This MP also follows the most current version of the Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings and the associated guidance. The federal guiding principles are summarized by the following:

- Employ Integrated Design Principles
- Optimize Energy Performance
- Protect and Conserve Water
- Enhance Indoor Environmental Quality; and
- Reduce the Environmental Impact of Materials

DHS has established strategies and targets for addressing sustainability goals in these general areas:

- Goal 1: Greenhouse Gas (GHG) Reduction
- Goal 2: Sustainable Buildings
- Goal 3: Clean and Renewable Energy
- Goal 4: Water Use Efficiency and Management
- Goal 5: Fleet Management
- Goal 6: Sustainable Acquisition
- Goal 7: Pollution Prevention and Waste Reduction
- Goal 8: Energy Performance Contracts
- Goal 9: Electronic Stewardship and Data Centers
- Goal 10: Climate Change Resilience

REQUIREMENTS - WATER

REQUIREMENTS - SANITARY SEWER

REQUIREMENTS - NATURAL GAS

REQUIREMENTS - ELECTRIC

REQUIREMENTS - STORMWATER

MASTER PLAN CRITERIA DOCUMENTS

Criteria Documents

The following criteria was reviewed to determine the applicability of the criteria to the MP. The description highlights the critical sections applicable to either the development of the MP or followon projects. Although USSS does not need to follow DoD guidance, the referenced DoD UFCs provide helpful guidance.



Developing the Regulating Plan

November 2021 Workshop

Administration of Donald J. Trump, 2020

Executive Order 1986—Governance and Integration of Federal Mission Resilience December 7, 2020

By the authority vested in me as President by the Constitution and the laws of the United States of the Constitution and the laws of the United States of the Constitution and the laws of the United States of the Constitution and the laws of the United States of Constitution and the laws of the United States of Constitution and the laws of the Constitution and Constitution and the Constitution and the Constitution and Constituti

Executive Order 13961

Governance and Integration of Federal Mission Resilience dated 7 December 2020. Executive Order 13961 increases the resilience of the executive branch and implements a strategy to reduce the current reliance on reactive relocation of personnel and enhance a proactive posture that minimizes disruptions, distributes risk to the performance of National Essential Functions (NEF) and maximizes the cost-effectiveness of actions that ensure continuity of operations, continuity of government, and enduring constitutional government.

BRIEFING ROOM

Executive Order on Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability

DECEMBER 08, 2021 - PRESIDENTIAL ACTIONS

By the authority vested in me as President by the Constitution and the laws of the United States of America, and in order to reestablish the Federal Government as a leader in sustainability, it is hereby ordered as follows:

Section 101. Policy. The Federal Government faces broad exposure to the mounting risks and costs already posed by the climate crisis. In responding to this crisis, we have a once-in-ageneration economic opportunity to create and sustain jobs, including well-paying union jobs, support a just transition to a more sustainable economy for American workers as strengthen American's communities; protect public health; and advance environmental justice. As the single largest land owner, energy consumer, and employer in the Nation, the Federal Government can catalyze private sector investment and expand the economy and American industry by transforming how we build, buy, and manage electricity, vehicles, buildings, and other operations to be clean and sustainable.

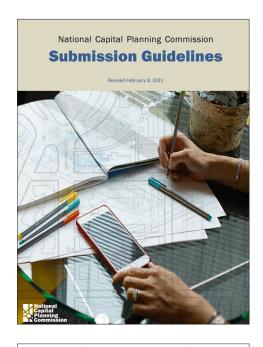
We also must build on past progress and pursue new strategies to improve the Nation's preparedness and resilience to the effects of a changing climate, including advancing the Federal Government's strategic planning, governance, financial management, and procuremen to ensure climate resilient operations.

It is therefore the policy of my Administration for the Pederal Government to lead by example in order to achieve a carbon pollution-free electricity sector by 2038 and net-zero emissions economy-wide by no later than 2036. Through a whole-of-government approach, we will demonstrate how innovation and environmental stewardship can protect our planet, safeguard Federal investments against the effects of climate change, respond to the needs of all of America's communities, and expand American technologies, industries, and object.

Sec. 102. Government-wide Goals. (a) Leading the Nation on a firm path to net-zero emissions by 2050 and achieving the policy set forth in section 101 of this order will require bold action to transform Redeal procurement and operations and secure a transition to clean, zero-emission technologies. Through a coordinated whole-of-government approach, the Federal Government

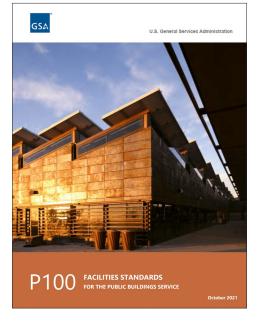
Executive Order on Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability

Dated 8 December 2021, the Executive Order on Catalyzing Clean Energy Industries and Jobs requires 100 percent carbon pollution-free electricity (CFE) by 2030 at least half of which are locally supplied clean energy, a new-zero emission building portfolio by 2045, and net-zero emissions from federal procurement no later than 2050. Note: This order is new and the executive order has not yet been assigned.



NCPC Review Process

This document outlines the submission guidelines critical to carrying out its congressionally mandated planning and review by authorities. The guidelines explain what is expected at each stage of the project review cycle and the degree of review provided by the commission.



GSA P100

The facilities standards for the public buildings service (P100) establish standards and criteria for the public building service (PBS) of the U.S. General Services Administration (GSA). It contains both performance-based standards and prescriptive requirements to be used in the programming, design, and documentation of GSA buildings.



A. SCOPE OF THE STUDY:

ves of this Study are to provide the U.S.Secret Service a general overview of ments and procedures and a mathodology in the establishment of a provide process. The provide provides are supported to the provide of y, for each of the facilities at Betkind; manpower required for staffing he well as cost projections for implementing such a program to assist the Service in preparing annualized budgets for funding the program.

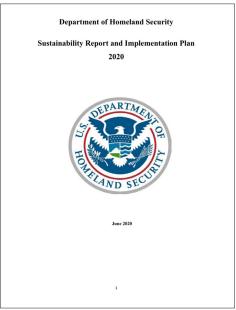
LLE TRAINING CENTER - HISTORICAL DEVELOPMENT

On April 1, 1982 the Commission approved a new master plan which addrn needs for training at Beltsville since the decision to locate CFLETC at Glyn

J.J. ROWLEY TRAINING CENTER, MAINTENANCE MANAGEMENT STUDY

RTC Blue Book

This document provides the USSS with a general overview of the requirements, procedures, and methodology in the establishment of a comprehensive maintenance management program. It looks at the manpower required for staffing the program as well as cost projections for implementing such a program to assist the USSS in preparing annualized budgets for funding the program.



DHS 2020 Sustainability Plan

The DHS report and implementation plan outlines the department's strategic vision for efficiency and sustainability. It allows components to meet their mission needs and requirements by giving strategies, initiatives, and actions to implement sustainable programs.

UFC 2-100-01 30 September 2020

UFC 1-200-02 01 DECEMBER 2020

UNIFIED FACILITIES CRITERIA (UFC)

INSTALLATION MASTER PLANNING



APPROVED FOR PUBLIC RELEASE: DISTRIBUTION UNLIMITED

UNIFIED FACILITIES CRITERIA (UFC)

HIGH PERFORMANCE AND

SUSTAINABLE BUILDING REQUIREMENTS

UFC Installation Master Planning

This document prescribes the DoD minimum requirements for master planning processes, products, tools, and strategies in accordance with DoD instruction. The process is to use the tool of a Master Plan and its components to provide ongoing master planning of installations in support of the mission.

The UFC outlines a total process for master planning (and ultimately the development of a Master Plan) through the preparation of linked plans that can be implemented in total or incrementally based on each service's needs and resources.

UFC High Performance and Sustainable Building

This document provides minimum unified requirements and guidance for planning, designing, constructing, renovating, and maintaining high-performance and sustainable buildings. These will enhance DoD mission capability by reducing total ownership costs.

Department of Homeland Security Federal Protective Service Directive Number: 15.2.6.1 Revision Number: 0

Revision Number: 0 Issue Date: 11-19-2020 Real Property Management

I. PURPOSE

This directive establishes the Federal Protective Service (FPS) Real Property Management policy and assigns program responsibilities to ensure that FPS space and facilities management complies with Federal regulatory requirements.

II. SCOPE

 This directive applies to FPS Headquarters, Regions, MegaCenters, and those FPS elements occupying shared spaces.

III. AUTHORITIES/REFERENCES

Real Property Management

- A. OMB Management Procedures Memorandum No. 2015-01, Implementation of OMB Memorandum M-12-12 Section 3: "Reduce the Footprint (RTF Memo)," March 2015.
- US Code, Chapter 42, U.S.C. § 4321-4335 (The National Environmental Policy Act of 1990)
- C. Chapter 36 Code of Federal Regulations (CFR) Chapter VIII, Part 800, "Protection of Historic Properties," July 2012.
- D. Public Law 111-292, "Telework Enhancement Act," December 2010.
- E. Interagency Security Committee, "Risk Management Process for Federal Facilities: An Interagency Security Committee Standard, 2nd Edition," November 2016.
- F. GSA Explosive Canine Training Aids (ECTA) Policy for Storage of Explosive Materials in GSA Owned Buildings and/or on GSA-Owned Property", 2015.
- G. DHS Delegation Number 00500 Revision 01, "Delegation to the Chief Readiness Support Officer," issued June 5, 2012 and incorporating Change 1 issued May 25,
- H. DHS Instruction 119-02-001 Revision 1. "Real Property Manual." July 2, 2010.
- I. DHS Directive 119-02, "Real Property Management Program," December 10, 2012.

Page 1 of 10

Directive 15.2.6.1

J. DHS Instruction 119-02-003, "DHS Workplace Standards," September 30, 2014
K. DHS Instruction 121-01-017-01, "Physical Security Construction and Equipment Specification Instruction Manual." March 21, 2015.

Specification Instruction Manual," March 21, 2015.

DHS Instruction Real Property Management

The DHS Real Property Management Directive Number 15.2.6.1, dated 19 Nov 2020 establishes Real Property Management policy and assigned program responsibilities to subordinate agencies and services to ensure that Federal Protective Service (FPS) space and facilities management are in compliance with Federal regulatory requirements.

FPS Instruction Manual 15.2.6.1-01 Real Property Management Department of Homeland Security Federal Protective Service Office of the Deputy Director for Technology and Innovation Deputy Director, Technology and Innovation Deputy Director, Technology and Innovation

FPS Instruction Manual

The DHS Federal Protective Service (FPS)
Instruction Manual 15.2.6.1-01 dated 20 Oct
2020 outlines the details for implementing
the space and facilities management
requirements outlined in the DHS Real
Property Management Directive Number
15.2.6.1 dated 19 Nov 2020.

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

| Count | Coun

USSS SWM Conveyance Maps

These site plans show the stormwater flow direction and location of culverts. The map defines five separate drainage areas with a more detailed site plan of the drainage area.

RTC Sanitary Sewer System

The sanitary sewer system plan shows the location of manholes, gravity sewers, and the main sanitary force sewers on the site.

Bird Survey Data (2013)

The bird survey shows the list of bird species, where they have been observed, and the relative abundance of the species in the area.

Existing Water Utility Plan

This site plan shows the main water lines and the placement of fire hydrants at the RTC.

Hazard Waste Contingency Plan

This plan shows the hazardous waste locations such as the Hazardous Waste Containment building, the axillary containment area, and the satellite accumulation area.

DTF

The White House plan identifies the site plan to use for the White House mock-up

James J. Rowley Training Center Master Plan (2017)

This document defines the physical requirements and the proposed engineering and architectural direction for the development of a world-class training campus for the USSS.

11/18/2021	09.20.17										
					James J. Ro Facilit	wley Training y Usage v1.6	Center				
				Site: RTC			se Facility Set	All			
Area: Bell Subarea: All 10/01/2020 to 09/30/2021 - Weekdays Only - Operational Schedule											
4											
				Facilities	Facilities		Training	Facilities		Facilities	
Site	Date	Day	Facilities	Used for Training	Used for Training	Training Hours	Utilization %	Used for Nontraining	Nontraining Hours	with Downtime	Downtime Hours
RTG	10/01/2020	Thursday	1	1	100	9.00	112	0	.00	0	.00
	10/02/2020	Friday	1	1	100	8.00	100	0	.00	0	.00
	10/05/2020	Monday	1	1	100	8.00	100	0	.00	0	.00
	10/08/2020	Tuesday	1	1	100	9.00	112	0	.00	0	.00
	10/07/2020	Wednesday	1	1	100	7.00	87	0	.00	0	.00
	10/08/2020	Thursday	1	1	100	8.00	100	0	.00	0	.00
	10/09/2020	Friday	1	0	0	.00	0	0	.00	0	.00
	10/12/2020	Monday	1	0	0	.00	0	0	.00	0	.00
	10/13/2020	Tuesday	1	0	0	.00	0	0	.00	0	.00
	10/14/2020	Wednesday	1	0	0	.00	0	0	.00	0	.00
	10/15/2020	Thursday	1	0	0	.00	0	0	.00	0	.00
	10/16/2020	Friday	1	0	0	.00	0	0	.00	0	.00
	10/19/2020	Monday	1	0	0	.00	0	0	.00	0	.00
	10/20/2020	Tuesday	1	0	0	.00	0	0	.00	0	.00
	10/21/2020	Wednesday	1	1	100	7.00	87	0	.00	0	.00
	10/22/2020	Thursday	1	1	100	7.00	87	0	.00	0	.00
	10/23/2020	Friday	1	1	100	7.00	87	0	.00	0	.00
	10/26/2020	Monday	1	0	0	.00	0	0	.00	0	.00
	10/27/2020	Tuesday	1	1	100	8.00	75	0	.00	0	.00
	10/28/2020	Wednesday	1	1	100	8.50	81	0	.00	0	.00
	10/29/2020	Thursday	1	1	100	4.00	50	0	.00	0	.00
	10/30/2020	Friday	1	1	100	4.00	50	0	.00	0	.00
	11/02/2020	Monday	1	0	0	.00	0	0	.00	0	.00
	11/03/2020	Tuesday	1	1	100	6.00	75	0	.00	0	.00
	11/04/2020	Wednesday	1	0	0	.00	0	0	.00	0	.00
	11/05/2020	Thursday	1	1	100	18.00	200	0	.00	0	.00

RTC Facility Room Schedule

This document outlines the RTC training center facility usage by providing the number of facilities and their utilization during operational hours.

Troysgate Facility Site Plan

This site plan of the Troysgate Facility shows the extent of the project site, perimeter clearance, and nearby roads.

USSS Gun Range Design Options

These plans show two different design options for the gun range at the RTC.

Council on Environmental Quality

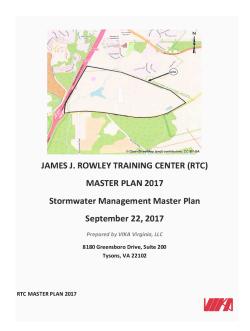
Guiding Principles for Sustainable Federal Buildings

And Associated Instructions

December 2020

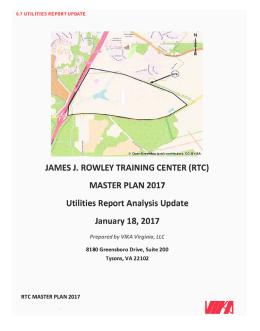
Guiding Principles For Sustainable Federal Buildings

All federal agencies have adopted the Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings. The federal guiding principles employ integrated design principles, optimize energy performance, protect and conserve water, enhance indoor environmental quality and reduce the environmental impact of materials.



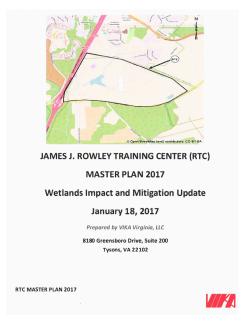
RTC Stormwater Impact Study

The RTC Stormwater Impact Study provides a campus-wide strategy to control and treat stormwater runoff from the 2017 Master Plan post developed site such that the requirements of the local governing authority and the requirements of Section 438 of the Energy independence and Security Act of 2007 are satisfied



RTC Utilities Report Analysis Update

The RTC Utilities Report Analysis Update is to provide an update to the 2010 Utility Report. It notes that the off-site water system is operating below capacity, indicating that there is capacity to expand. The report notes that all minor projects proposed for the sanitary sewer system were accomplished. Any upgrades to the water system should meet fire protection standards



RTC Wetlands Impact Study

This document provides minimum unified requirements, and guidance for planning, designing, constructing, renovating, and maintaining high performance and sustainable buildings. These will enhance DoD mission capability by reducing total ownership costs.



RTC Traffic Impact Study

The RTC Traffic Impact Study describes a variety of transportation demand management strategies that can be implemented as necessary by the RTC over the course of the 2017 Master Plan to address traffic impacts associated with the potential growth and development outlined in the Master Plan

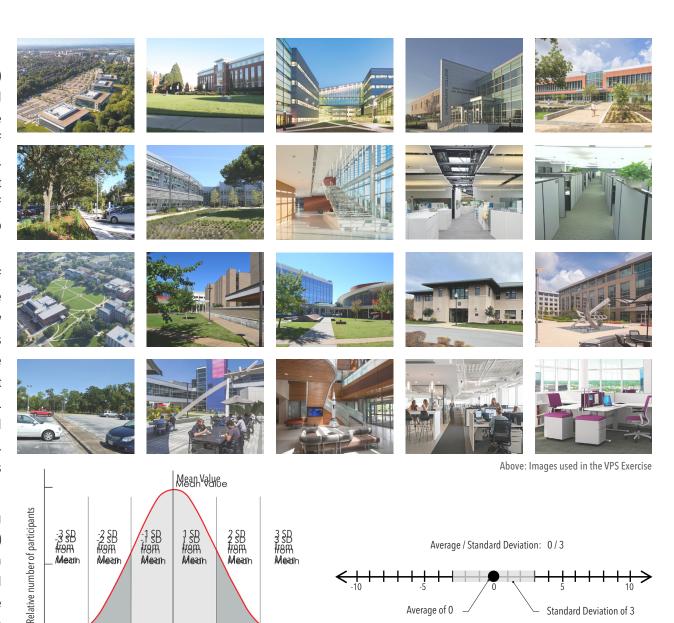
VISUAL PREFERENCE SURVEY

Visual Preference Survey Overview

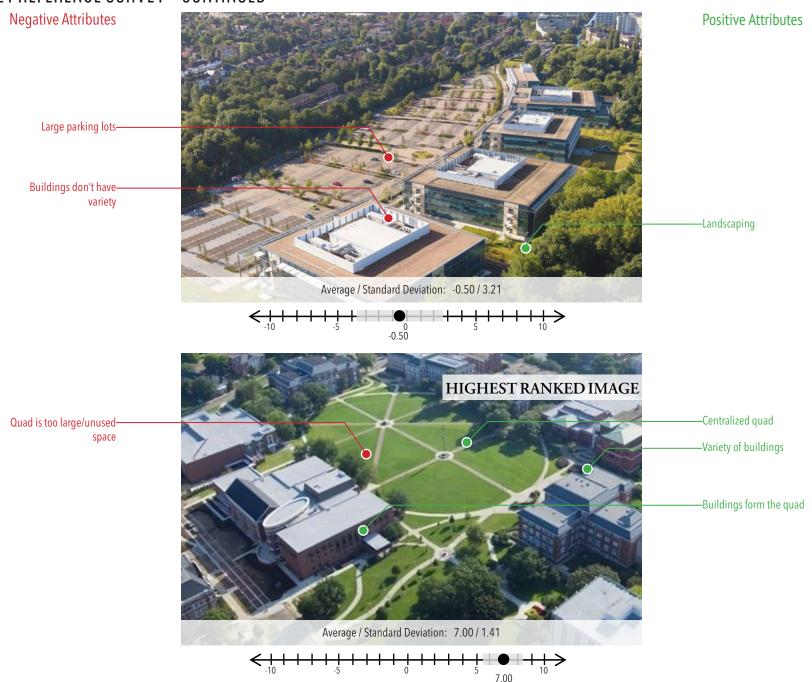
Stakeholders participated in a Visual Preference Survey (VPS) during the ADP Workshop in November 2021. The results helped the workshop participants solidify the Design Patterns for the proposed USSS Rowley Training Center. The VPS is a method of finding a group's partiality towards different design aesthetics. Developed by urban planner Anton Nelessen in the late 1970s, it is often used in planning forums. By viewing and rating images of comparable community environments, clear trends emerge as to the preference of the survey participants.

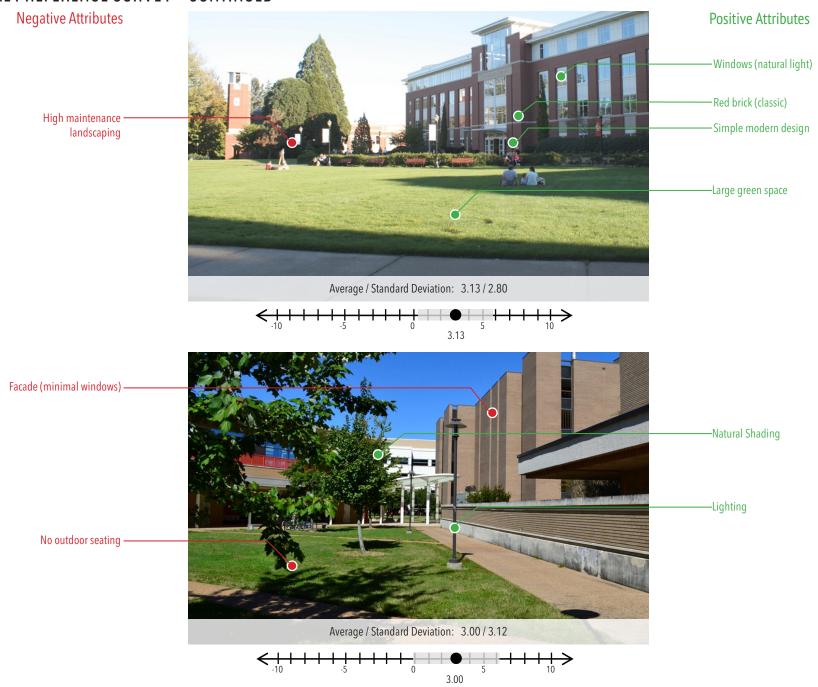
Through a series of comparative imagery, shown to the right of the page, participants rate each on a scale from -10 to +10, where -10 represents "highly unattractive" and +10 stands for "highly attractive." The resulting data then guides participants and planners in designing key elements of the built environment. Planners use the VPS primarily to identify what aspects of the built environment are important to the people who live and work on an installation. Participants in the forum used comparisons of the positively and negatively rated images to establish a set of design objectives. These objectives help ensure that subsequent development reflects the collective opinion of installation personnel.

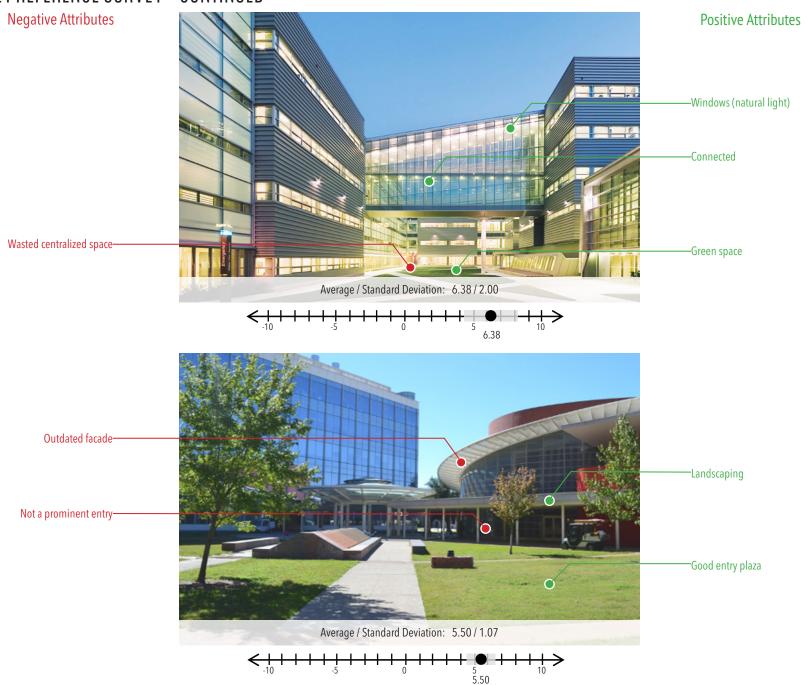
The following pages summarize the results of the VPS, showing each pair of images with the scores (mean/standard deviation) and scale bar below. A low standard deviation (SD) suggests a high level of agreement between participants, whereas a high standard deviation suggests otherwise. Stakeholders also defined positive and negative aspects of each image, which are highlighted along the sides of each image.

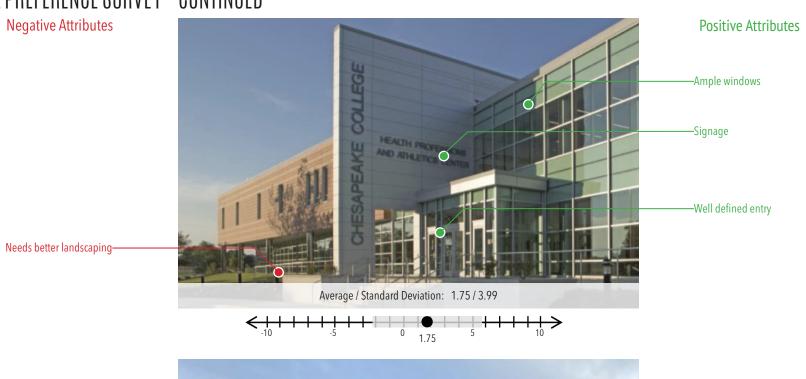


Number of SD from a standard value

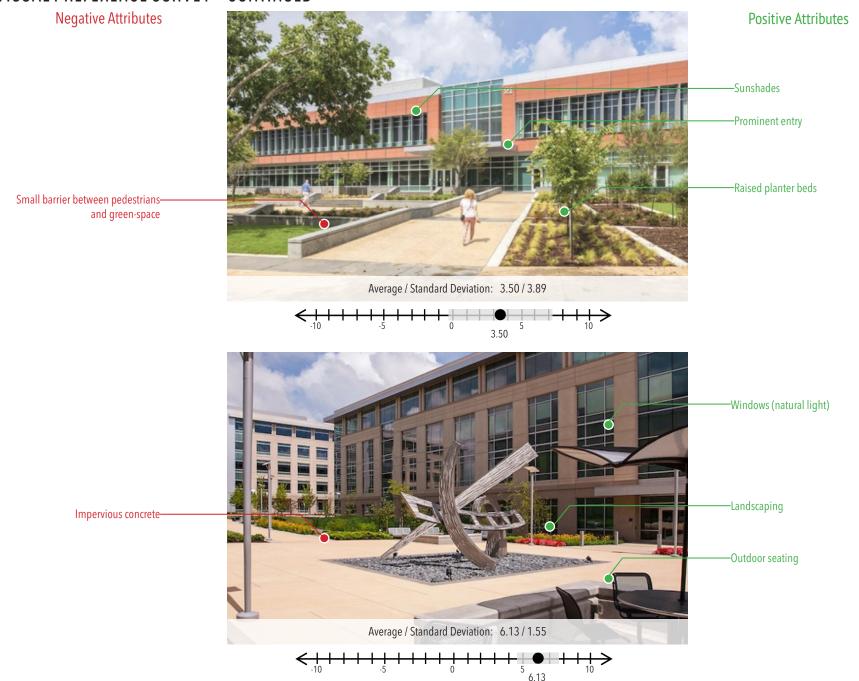


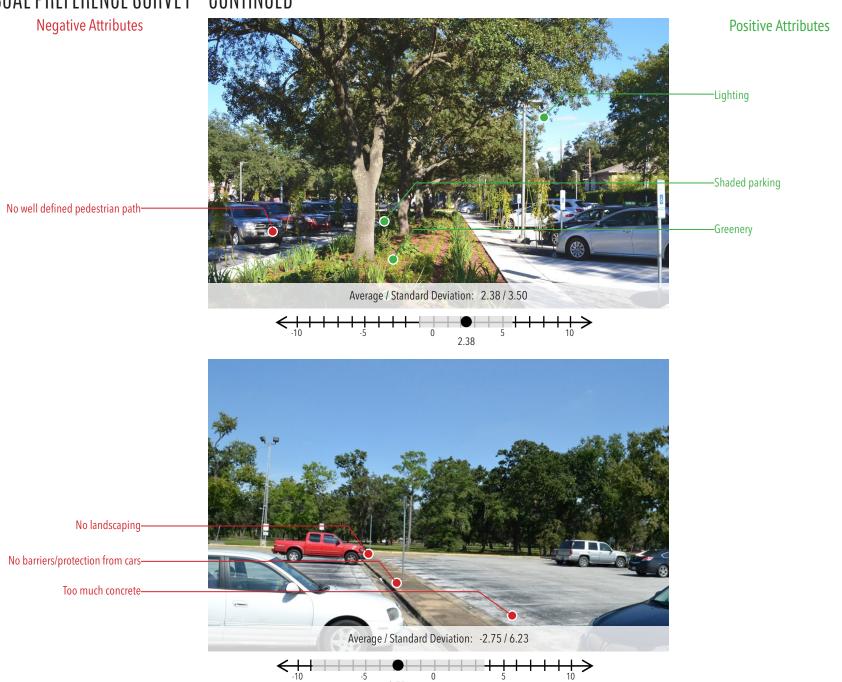


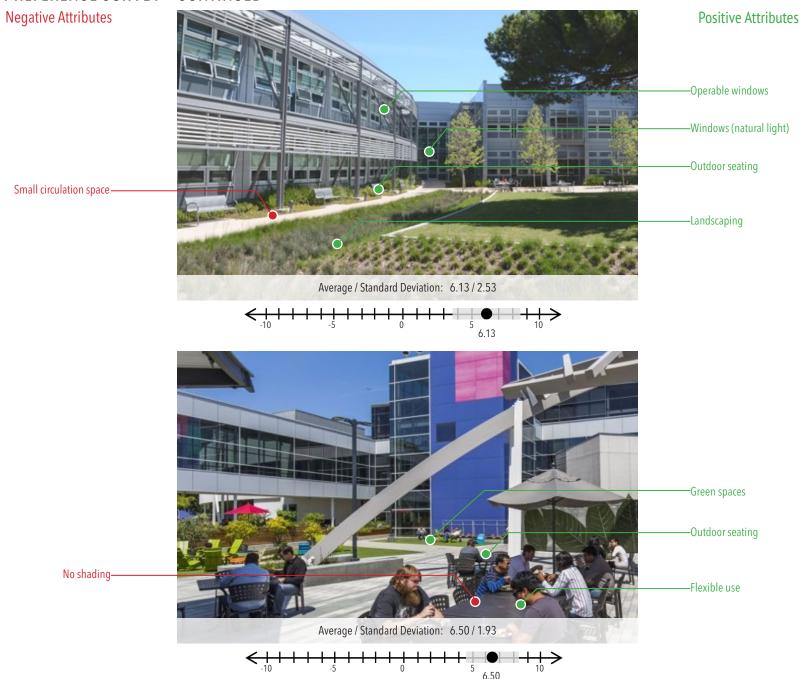


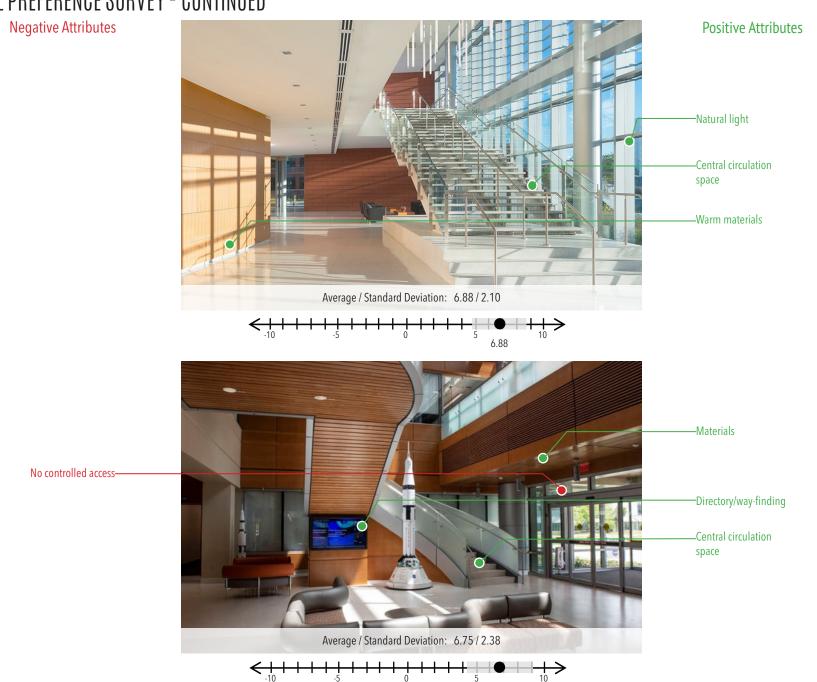


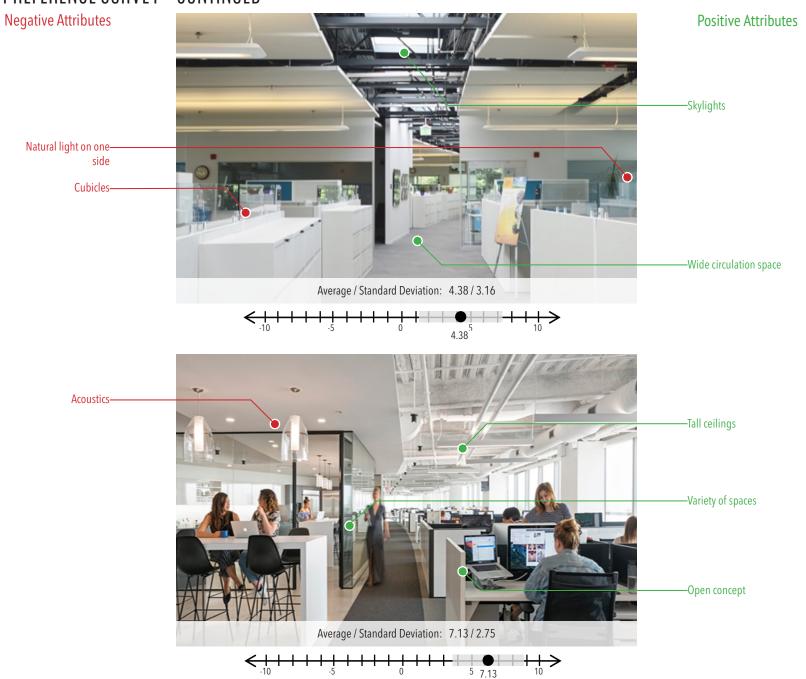


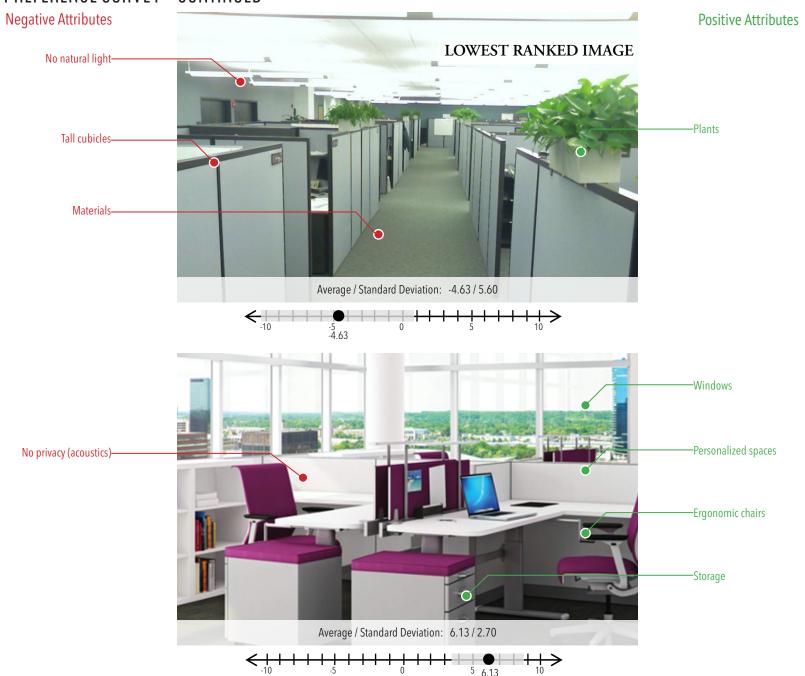












VISUAL PREFERENCE SURVEY RESULTS



Highest Rated Campus Image in the Visual Preference Survey (VPS)

Key Findings:

Create a campus with perimeter district parking, pedestrian pathways, and quads framed by buildings rather than an assortment of facilities on vacant lots.

Positive Attributes:

- Centralized quad
- Variety of buildings
- Buildings forming the quad



Highest Rated Building Image in the VPS (USSS Facility at RTC)

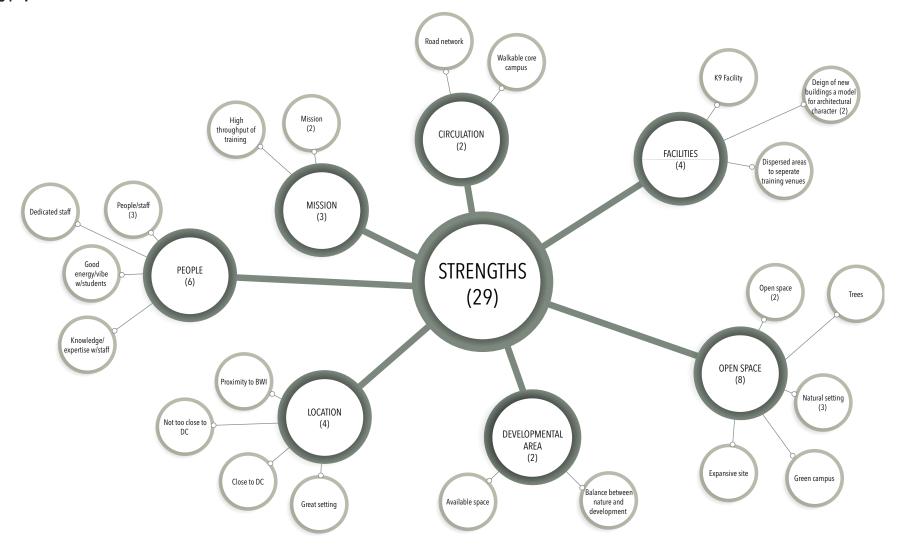
Key Findings:

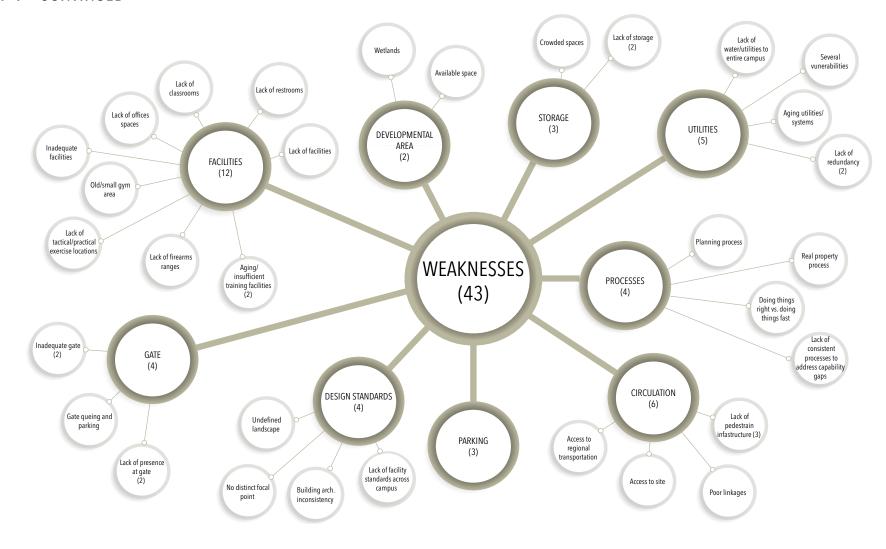
The Master Plan will include specific architectural standards that call for two-story facilities, hip roofs with standing seam metal in canine blue, split-faced block walls and precast stone details, large, blocked windows on the ground floor, ribbon windows on the second floor, narrow wings, and visible entries.

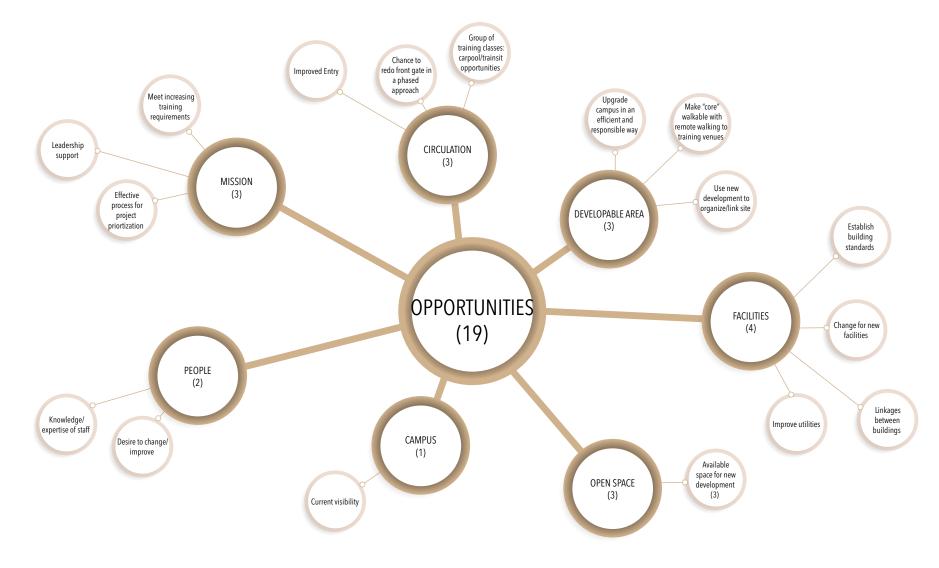
Positive Attributes:

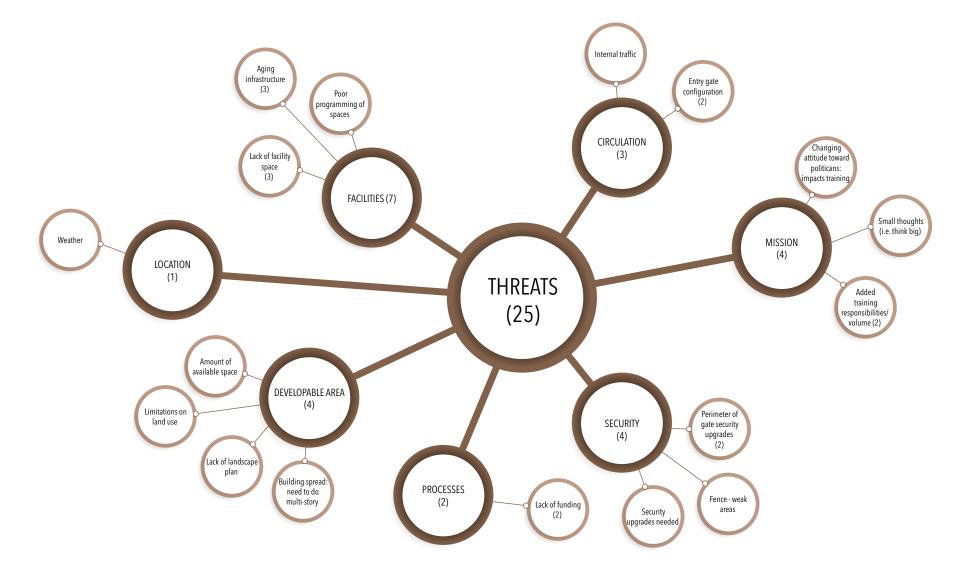
- Outdoor lighting
- Defined entry

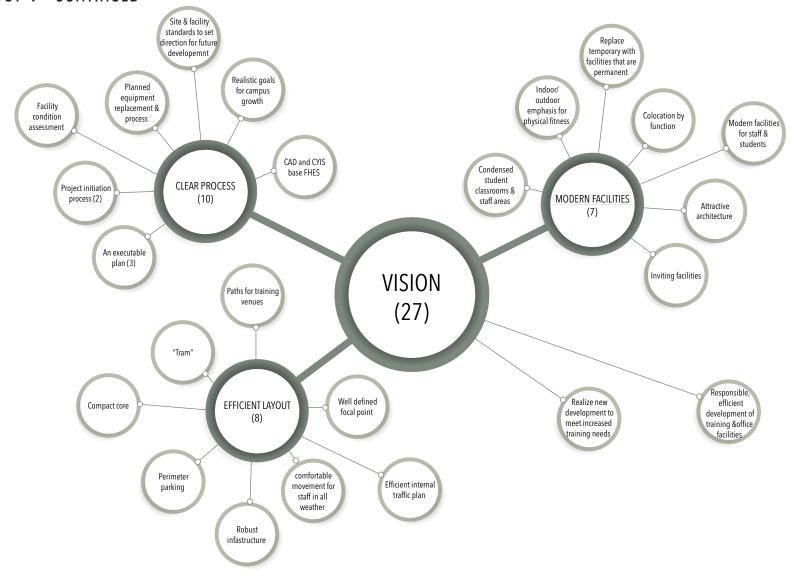
SW0T-V











CAMPUS EXTERIOR ARCHITECTURAL STANDARDS

Building Entrances

- Building entrances have an important role in a building's appearance and function. Entrances shall be clearly defined through formal, spatial, and/or material hierarchy
- Primary building entrances must be easily identifiable with a clear and understandable path from site parking and circulation
- Use of landmark elements to create entries is encouraged. It
 can be elevators, stairs or other elements of the building, site
 plazas, or forecourts.
- Building entrances should be defined with shading elements, color changes, building transparency, and upgraded materials.

Building Lobbies

- Building lobbies shall be designed as integral components of the building entries and promote a feeling of openness and connection to the exterior.
- To promote openness, access control shall be provided between the lobby and interior spaces.
- Make lobbies simple rooms, single or double height
- Use a high ratio of glass to wall and provide abundant natural light
- Make the lobby appropriate to the building use and architectural design
- Use materials that are articulated and well detailed
- Entry doors shall be the glazed storefront type

Trellises and Canopies

- Trellis systems shall be designed to be an integral part of the building's architecture
- Trellises can be used to announce building entries and create a means of way-finding to the front door
- Trellises provide a transition from the building to the exterior or visually link stand-alone shade structures to the architecture
- Trellises can enhance the architectural façade and provide cover from the elements where appropriate
- Trellises shall be constructed of steel tube columns embedded in concrete and finished with high performance epoxy tube framing

Building Additions and Renovations

- Building additions shall be compatible with the existing building in terms of aesthetics, scale, form, material, orientation, and style
- Incompatible additions and renovations should either be removed and replaced with compatible designs that are sensitive to the building's design, function and location in cases where removal and replacement are not feasible, incompatible additions and renovations shall be modified to make them compatible with the style of the building.



CAMPUS EXTERIOR ARCHITECTURAL STANDARDS - CONTINUED

Exterior Doors, Windows and Storefronts

- The ratio of glazing to the overall wall area has a dramatic effect on solar heat gain within a space, significantly effecting energy loads associated with heating and cooling. A high ratio of glazing-to-wall area with less efficient windows can result in a building being too cold in the winter due to heat loss through the glass, or too hot in the summer due to direct sunlight. Conversely, a low ratio of glazing-to-wall can limit effectiveness of daylighting strategies and forfeit free heat provided by the sun
- Use double or triple glazing, whichever is most life cycle cost effective
- Windows and storefronts shall be aluminum with factoryapplied Polyvinylidene Fluoride (PVDF) finish.
- Exterior glazing shall be clear insulated units (Solarban 70 or equivalent)
- Obscured glazing (ceramic fritting or applied film) shall be used where limited vision is desired
- Spandrel sections shall have sputter coat finish that harmonizes with the glazing color
- Translucent structural sandwich fiberglass polymer panels shall be used at warehouses and to provide daylighting into buildings
- Exterior doors and frames shall be steel with factory-applied coating
- Exterior doors, windows and storefronts shall conform to AT/FP blast requirements (where applicable)
- Exterior doors shall be steel with factory-applied coating

Roofs

- Roofs can have either low (2:12 or lower) or medium slope roofs (2:12 to 6:12)
- Pitches lower than 2:12 must have a solar reflective index (SRI) value of at least 78
- Medium pitched roofs should be anodized aluminum standing seam metal
- Pitches greater than 2:12 must have an SRI of at least 29



CAMPUS EXTERIOR ARCHITECTURAL STANDARDS - CONTINUED

BUILDING FORM AND COMPOSITION

Buildings should be two or three story where feasible to conserve limited space for new development on the RTC campus. Buildings should not exceed three stories to preserve the character of the campus and to avoid costs associated with additional fire protection measures and structural design for progressive collapse associated with four story and higher buildings.

Buildings should include:

- Medium roof slopes (3:12 6:12 pitch)
- Decorative masonry exterior with pattern or recess/projection relief to break up large area wall planes
- Concealed mechanical equipment, whether rooftop or on grade
- Windows placed to maximize daylight of interior spaces as appropriate to their functional requirements. Windows should consist of punched openings in masonry or concrete, and curtain wall glazing at key entrances and focal areas.

Buildings should have a base, mid wall, upper wall and roof areas that are proportioned to provide balanced architectural facades. The existing Merletti and Bowron facilities are good examples of appropriate building proportions.

CAMPUS EXTERIOR ARCHITECTURAL STANDARDS - CONTINUED

BUILDING EXTERIOR MATERIALS AND FINISHES

Building exteriors should be designed with durable materials and finishes that require minimal maintenance and have life cycles that are a minimum of 20 years for finishes and 50 years for materials.

Building exterior should consist of the following:

- Architectural split face and ground concrete masonry unit (CMU) or architectural precast concrete panels in light beige or sand color to match those used on the Merletti/Bowron facilities
- Metal wall panels if used should be limited to mid wall and preferably upper wall areas to minimize potential impact damage at base level and to maintain the durability and sense of permanence established with the existing masonry on campus.
- Architectural precast concrete window heads/sills, water tables, and accent features in unit masonry construction. Color to match the wall field color
- Verdigris or bronze color metal trim, including windows, doors, gutters, and downspouts
- Copper or verdigris color metal standing seam roof (high seams 12" 18" o.c.), with matching fascia's, gutters, and exposed flashings.

Storage and Maintenance: Buildings Coordination with the sand/bronze/ verdigris color palette used in the major campus buildings will help unify utilitarian buildings with other campus buildings and the natural surroundings.

Special Function Buildings: The existing tactical training venues feature a range of building forms and materials selected primarily to serve functional rather than aesthetic criteria. Coordination with the common materials and palette of the newer campus buildings should be undertaken.

ADMIN/OFFICE/SUPPORT, GENERAL CLASSROOM/ TRAINING FACILITIES

The Bowron Building and the Merletti Building are the exemplars for future buildings of similar function on campus.

They Feature:

- Durable materials and finishes including: Architectural Split face and ground face concrete masonry unit (CMU) exterior wall finishes, Architectural precast concrete at window heads/sills, water tables, and accent features in unit masonry construction, and copper or bronze color metal trim, including windows, gutters and downspouts
- Medium slope roofs
- Decorative masonry exterior
- · Concealed mechanical equipment
- Windows placed to maximize daylighting of interior spaces

SPECIAL FUNCTION SINGLE STORY FACILITY EXAMPLE

The Canine Facility is the most recent new one-story construction on the campus and an attractive addition.

The continuation of the split-faced masonry walls as well as metal door, window, and sunscreen palette is appropriate. Low-sloped roofs tend to require maintenance and replacement more often than sloped roofs, so a sloped roof should have been considered. (Low-sloped roofs should only be used on extremely large roofs where the life-cycle analysis shows the low-sloped roof is more cost effective over the life of the facility than a sloped roof).

The entry/administrative wing of the Canine Facility provides an example for a modern single-story building. The durable CMU extends from grade to top of the mid wall at some areas and would have been more appropriate if continued around the entire building perimeter.

EXTERIOR SIGNAGE

Provide exterior signage as part of a total wayfinding system that includes directional guide signs, building identification signs, pedestrian directional signs, street signs, and orientation maps. Develop specific sign designs in accordance with this Exterior Architectural Standards document, giving consideration to the existing cultural heritage, regional influences, and historical significance. Signs should coordinate with nearby landscape and structures. Design exterior signs for maximum durability and sustainability based upon regional weather impacts. Sign message panels should be easy to update or replace to allow for flexibility of future message updates. Integrate new signs with existing signs to provide the most costeffective and practical solutions for each facility. A standardized sign system ensures consistency, improves wayfinding, and is compatible with existing campus standards.

Exterior Sign Types:

Develop a standard family of installation-specific sign designs in accordance with these guidelines. Integrate new signs with existing signs to provide the most cost-effective and practical solutions for each facility or installations.

Prohibited Exterior Signs:

Prohibited signs include any sign with animated, blinking, chasing, flashing, or moving effects. Other types of prohibited signs include rotating signs, windblown or inflated signs, neon signs, and portable signs. These restrictions do not apply to traffic control devices.

Exterior Color Standards:

The goal of these guidelines is to establish a consistent color scheme for all site and building signs that works for the entire campus. A consistent dark background should be used for standard site and gate identification signs, with light text to provide sufficient contrast, to meet all visibility and required legibility objectives. Accent colors help reinforce the brand identity of the USSS. These color standards do not apply to traffic control signs that have color and material requirements specified in the Manual on Uniform Traffic Control Devices (MUTCD).

Engineering and Shop Drawings:

All signs, foundations, and connections must be engineered to resist wind loads and thermal movement according to the local climate requirements without distortions and excessive deflections. Shop drawings submitted by the sign contractor must include fabrication details such as elevations, message layouts, sections, side views, plan views, mounting details, and electrical or communication details. Submittals for all freestanding signs must include design calculations and the signed seal of a registered structural engineer licensed in the required area or follow approved state department of transportation standards to ensure compliance with all design and load requirements. Shop drawings must illustrate all means of mounting and attachment for proper coordination for connections to building structures

MAIN CAMPUS SIGNAGE

Place primary identification signs perpendicular to the roadway to permit viewing by traffic moving in both directions. Consider intersection sight distances provided in AASHTO A Policy on Geometric Design of Highways and Streets (Green Book), in addition to the lateral offsets included in the MUTCD

BUILDING IDENTIFICATION SIGNAGE

Building identification signs are used to provide information about buildings, major tenants within buildings, areas within the campus, and organizational or functional units. Different sizes and design elements are used to identify the different organizational levels. The signs should carry one unit name and any secondary information to identify the unit component (such as headquarters) and may also include a street address.

Freestanding Building Identification Signs:

Most buildings can be best identified by using a freestanding building identification sign in front of the building near the main entrance or at the main entrance to the associated parking area. There are three basic types of freestanding building identification signs:

- Primary- These signs identify high-level organizations such as command, division, or unit headquarters.
- Secondary- These signs identify lower-profile buildings. These signs use the same basic principles as primary facility signs, only these are somewhat smaller.
- Tertiary- These signs identify buildings or other miscellaneous facilities that do not require a street address or building number, such as recreational facilities, training areas, and maintenance or storage facilities.

The appropriate sign type required is based upon the importance of the building or tenant identification required. Place primary identification signs as close as possible to the building entrance and perpendicular to the roadway to permit viewing by traffic moving in both directions.

If the building is set back from the roadway and is not visible or is only partially visible from the roadway, place the sign next to the entrance driveway and on the side of the driveway closest to the building. Provide one sign for each building unless additional signs are required due to unique site conditions. Consider intersection sight distances provided in AASHTO A Policy on Geometric Design of Highways and Streets (Green Book), in addition to the lateral offsets included in the MUTCD.

BUILDING IDENTIFICATION SIGNAGE

Materials and Colors:

Freestanding building identification signs must be non-illuminated and use a standard post-and-panel type construction. Use extruded aluminum square posts with flat aluminum sign message panels that are removable for easy replacement. Sign-post and panel sizes must be engineered by the sign contractor according to wind loads and other requirements at each installation. Minor deviations from these general specifications are permitted where needed to align with installation-specific standards and pre-existing sign programs.

• Provide a USSS Blue painted finish for the background of the message panels and support posts. Sign message content must be white reflective engineering-grade vinyl. Use these standard materials and colors unless there are specific requirements established elsewhere that take precedent. These color standards and any special exceptions do not apply to traffic control signs that have color and material requirements specified in the MUTCD.

Street Address and Building Numbers:

Include the street address or building numbers (if used) on all building and facility identification signs, where possible. Include this information at the main entrance to the building and on other exterior portions of the building as necessary for wayfinding.

BUILDING IDENTIFICATION SIGNAGE

Building Entrance Signs:

Only one identification sign is permitted at each building entrance .. Place the building entry signs directly on the wall next to the entry point. If the building is set back from the roadway and is not visible or only partially visible from the roadway, place the sign next to the main entrance of the building to confirm the information shown on the sign at the entrance driveway. Some buildings have more than one primary entrance. Use building-mounted entry signs to identify organizations that are reached through the alternate entries of these types of buildings.

Building Entrance Signs on Glass:

Customized solutions may be designed for buildings with glass entrances. Provide frosted or white vinyl building identification on glass entryway signs where required. Provide building numbers or the street address that are appropriately sized for the average viewing distance. As a guide, use letters 1" (25 mm) high per 25' (7.62 m) of viewing distance and establish an installation standard based on the average door size and viewing distance. Include limited additional information when appropriate.

BUILDING IDENTIFICATION SIGNAGE

Building-Mounted Identification:

Minimize the use of building identification signs to only high-profile buildings, except where building identification numbers are used. Signs mounted on prominent buildings may include the building name, primary function, and/or building identification number when the facility needs identification from long distances. Building number signs may be used in addition to the primary facility identification sign where required.

Placement:

Building-mounted identification signs should be coordinated and compatible with the building's design and applied consistently across the installation. They are often most effective near the main building entrance or on a covered drop-off canopy. Signage may be required on the back or side of the building to provide better visibility and wayfinding cues for visitors or customers. The installation engineer should select the most appropriate solutions for the architectural style of the buildings and apply them consistently.

SUSTAINABILITY/RESILIENCE FEATURES

Sustainable Design

- New construction and major renovations shall follow Guiding Principles Validation requirements and third-party sustainable design certification
- Recommended certifiers include USGBC's LEED, Green Building Initiative's Green Globes, and the WELL certification rating systems.
- Sustainability certification goals include employing integrated design principles, optimizing energy performance, protecting and conserving water, enhancing indoor environmental quality and reducing environmental impact of materials.
- Evaluate and prioritize transportation strategies and associated infrastructure improvements that promote and support alternative transportation, including walking, cycling, alternative fuel and electric vehicles, and public transit over the life of the building, as feasible and consistent with the mission of the facility.
- Consistent with 42 U.S.C. § 6364, establish an electric vehicle supply equipment (EVSE) policy and install one or more electric vehicle charging stations if parking is provided.
- Design for LEED Gold as long as the measures to achieve LEED Gold are life-cycle cost effective and do not inhibit mission effectiveness. (To be life-cycle cost effective the measures will have to have the lowest life-cycle cost when compared to other alternatives comparing first, replacement, and maintenance costs).

Sustainable Building Elements

Sustainable building elements incorporate energy

- Integrate sustainable building elements into the architectural
 - and site design, allowing the elements to fulfill other building requirements as well as sustainability

conservation, water conservation, and sustainable materials

- Integrate daylighting strategies into the design of all buildings
- Provide access to daylight for all regularly-occupied spaces used for visual tasks. Passive strategies combined with daylight harvesting technology, can significantly reduce lighting demand while simultaneously boosting occupant productivity
- Take advantage of the natural movement of air as a results
 of temperature and pressure differences to offset energy
 demands associated with space heating and cooling. Natural
 ventilation has the capacity to reduce the hours outside of
 the comfortable range to fewer than two percent of occupied
 hours. Through proper orientation and operability, fresh air can
 be supplied and exhausted without the need for mechanical
 equipment
- Use high (transom) windows to get light deep into the building mass
- Integrate building openings and sun-control systems
- Use glazed interior office walls
- Use building-integrated photovoltaic (PV) systems at trellis, shade structures, parking, and building entries
- Passive solar control through the use of shading devices is critical to optimizing solar resources throughout the year.
 Combined with daylighting and thermal mass strategies, properly designed shading can both mitigate heat gain during the summer, and take advantage of heat storage in the winter. Photovoltaic canopies can provide shade along southfacing facades, attached or unattached to the building, which

- combines passive and energy-generating strategies
- Incorporate PV arrays on flat/low-slope roofs and integral PV arrays on sloped roofs where the slope orients to the south. The PV arrays must be the most life-cycle cost effective alternative.
- Select materials consistent with LEED, Green Globes, and WELL standards
- Use regionally sourced materials
- Use materials with recycled content
- Use rapidly renewable materials
- Lighting:
 - Shield light fixtures to keep illumination directed downward, rather than upwards
 - Choose lighting color temperatures of 3000K or less, as recommended by the International Dark-Sky Association
 - Install blackout curtains or other opaque window coverings to keep indoor light indoors, and turn off unused interior lights at night

Resiliency

- Locate habitable floors above the 500-year flood plain and freeboard level
- If mission requires a floor to be placed lower than the 500-year flood plain, locate all electrical, plumbing, heating, ventilating and air conditioning equipment above the 500-year flood plain
- Seek out sustainable strategies that save on energy and water usage to help provide a more resilient and longer operating facility during emergencies
- Use site generated energy to provide a more resilient facility when normal energy sources may be off or intermittent.
 Provide islanding capability

LANDSCAPE STANDARDS

Campus Landscape

The wooded character of the campus would reclaim around 4.5 acres of open spaces for new vegetation. The 2023 RTC Master Plan includes 20 acres more of vegetated areas than the previous 2017 RTC Master Plan. The proposed facilities and infrastructure improvements under the RTC Master Plan Update, 2023 would remove approximately 56 non-contiguous acres of vegetation at the RTC. This would constitute around 20 percent of the existing vegetated areas at the RTC. On the other hand, future demolition of the Baughman Outdoor Firing Range and the group of structures to the north of the driver operations pad, most of which are currently in poor condition, would reclaim around 4.5 acres of open spaces for new vegetation.

Tree Replacement and Wetland Mitigation

Tree replacement, when trees are removed due to infrastructure projects, and wetland mitigation, when wetlands are removed due to infrastructure projects, are an important part of sustainable site stewardship. The National Capital Planning Commission (NCPC) tree replacement policy stipulates that trees over 31.8" in diameter may not be removed. RTC does not have any known trees of this size; however, it is something to consider with development as trees may reach that diameter in the future. Additionally, the NCPC tree replacement policy FE.G.2 requires: Transplant or replace existing tree(s) when they are impacted by development and preservation is not feasible, according to the following procedures:

 Transplant healthy, native, or non-invasive tree(s) where practicable. Consult an Arborist and consider the following factors when determining if transplanting is appropriate.

- Replace tree(s) when they require removal. Replacement tree(s) should increase biodiversity, be native species or non-invasive species, and have a mature canopy spread equivalent to, or greater than, the tree(s) removed. Replacement tree(s) should be planted at a minimum caliper size of 2.5 inches for shade trees, 1.5 inches for ornamental trees, and sixfoot height for multi-stem and evergreen trees.
- Replace trees according to the following: a. Tree(s) less than 10-inches in diameter: Replace one tree for every one tree removed (1:1); b. Tree(s) 10-inches in diameter or greater should follow the scoring guide in Section G.
- Forests and Stands of Trees: Plant 1 acre minimum for every 1 acre removed.
- Locate replacement or transplanted tree(s), in order of preference, on: a. The project site (e.g., within or adjacent to the limits of disturbance); b. The property where the project site is located c. Another site within the agency's jurisdiction (authority) only if the preferred locations cannot accommodate the replacement trees without overcrowding; or d. A combination of the above locations.

The DTF removes 34.02 acres of groves and other Master Plan projects remove approximately 18.0 acres, for a total of 52.02 acres. During the pre-design of the DTF a certified arborist will conduct a tree survey and prepare a Tree Conservation Plan with tree replacement requirements and recommendations. This Tree Conservation Plan is a requirement of the Maryland Department of Natural Resources and should include what is existing on the DTF site, which trees will need to be removed, what is the health of the existing trees, where are locations for possible replanting on the RTC or possibly replanting off-campus. The USSS will submit this Tree Conservation Plan report to NCPC and M-NCPPC for a review

a month prior to the DTF being submitted formally to NCPC for its review under 40 USC 8722 (b)(I). It is anticipated that there will not be enough acres on RTC to accommodate the DTF tree replacement requirements. The Master Plan recommends that the USSS RTC find a nearby, off-site federal facility, perhaps the Beltsville Agricultural Research Center, to plant tree replacements. This recommendation is due to the timing of the DTF project, prior to any current buildings being demolished, and due to the size of the tree replacement area needed.

For the remaining projects and affected trees (approximately 18 acres or 720 trees), tree replacement is recommended in the area (4.5 acres) of the demolished firing range near the Baltimore-Washington Parkway and as street trees across the campus. There are over 30,000 linear feet of roadway that can accept up to 750 street trees.

The NCPC wetland mitigation policy requires three acres of wetland be remediated off campus.

LANDSCAPE STANDARDS

NATIVE PLANT LIST

The wooded character of the campus should be maintained for aesthetic, environmental and historic reasons. The MP shows expanding the wooded border along the Baltimore-Washington Parkway.

LARGE TREES					
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure
Acer negundo	Box elder	1,2	30-60 ft	Green, yellow	Full sun, part shade
Acer rubrum	Red maple	1,2	40-60 ft	Red	Full sun, part shade
Betula nigra	River birch	1,2	30-50 ft	Yellow, brown	Full sun, part shade
Carya alba (C. tomentosa)	Mockernut hickory	2,3	60-90 ft	Yellow, green	Part shade, shade
Carya cordiformis	Bitternut hickory	1,2	60-80 ft	Yellow, green	Full sun
Carya glabra	Pignut hickory	1,2,3	60-80 ft	Yellow	Full sun, part shade
Carya ovata	Shagbark hickory	2	70-100 ft	Green, yellow	Full sun
Celtis occidentalis	Hackberry	1,2	40-60 ft	Yellow, green	Full sun, part shade
Chamaecyparis thyoides	Atlantic white cedar	1,2	75 ft	Green	Full sun
Diospyros virginiana	Common persimmon	2,3	50-75 ft	Green, yellow	Full sun, part shade
Fagus grandifolia	American beech	2	50-100 ft	Yellow, green	Full sun, part shade
Fraxinus americana	White ash	2	80 ft	Yellow, green	Full sun, part shade
Fraxinus pennsylvanica	Green ash	1,2	50-60 ft	Green, purple	Full sun, part shade
Juglans nigra	Black walnut	2	70-90 ft	Yellow, green	Full sun
Liquidambar styraciflua	Sweet gum	1,2	60-80 ft	Yellow, green	Full sun, part shade
Liriodendron tulipifera	Tulip poplar	2	70-120 ft	Green, yellow	Full sun, part shade
Morus rubra	Red mulberry	2	60 ft	White	Full sun
Nyssa sylvatica	Blackgum, sourgum	1,2	30-60 ft	White	Full sun, part shade
Pinus echinata	Shortleaf pine	2,3	100 ft	Evergreen	Full sun
Pinus rigida	Pitch pine	3	50-60 ft	Evergreen	Full sun
Pinus taeda	Loblolly pine	1,2	70-90 ft	Evergreen	Full sun
Pinus virginiana	Virginia pine	2,3	50-80 ft	Evergreen	Full sun
Platanus occidentalis	American sycamore	1,2	75-100 ft	Yellow	Full sun, part shade
Prunus serotina	Black or wild cherry	2	40-60 ft	White	Full sun
Quercus alba	White oak	2	80-100 ft	Yellow, green	Full sun
Quercus bicolor	Swamp white oak	1	60-70 ft	Yellow, green	Full sun, part shade
Quercus coccinea	Scarlet oak	2	40-60 ft	Yellow, green	Full sun
Quercus falcata	Southern red oak	2	70-80 ft	Yellow, green	Full sun
Quercus marilandica	Blackjack oak	3	50 ft	Yellow, green	Part shade

LARGE TREES								
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure			
Quercus michauxii	Swamp chestnut oak	1,2	60-80 ft	Yellow, green	Full sun			
Quercus nigra	Water oak	1,2	50-80 ft	Yellow, green	Part shade, shade			
Quercus palustris	Pin oak	2	60-80 ft	Yellow, green	Full sun			
Quercus phellos	Willow oak	1,2	80-100 ft	Yellow, green	Full sun, part shade			
Quercus prinus (Q. montana)	Chestnut oak	3	60-80 ft	Yellow, green	Full sun, part shade			
Quercus rubra	Northern red oak	2,3	90 ft	Yellow, green	Full sun, part shade			
Quercus stellata	Post oak	2	75 ft	Yellow, green	Full sun			
Quercus velutina	Black oak	2,3	50-60 ft	Yellow, green	Full sun			
Robinia pseudoacacia	Black locust	2,3	40-80 ft	White	Full sun			
Salix nigra	Black willow	1,2	40-80 ft	Yellow	Full sun, part shade			
Taxodium distichum	Bald cypress	1	50-70 ft	Brown	Full sun, part shade			
Tilia americana	American basswood	2	>100 ft	White, yellow	Part shade			
Ulmus americana	American elm	2	100 ft	Green, yellow	Full sun			

SMALL-MEDIUM TREES									
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure	Bloom			
Amelanchier canadensis	Serviceberry, shadbush	1,2	35-50 ft	White	Part shade, shade	April-May			
Asimina triloba	Paw paw	2	39 ft	Yellow, red	Full sun	March-April			
Castanea pumila	Chinquapin	3	12-20 ft	Yellow	Part shade	June			
Cercis canadensis	Eastern redbud	2,3	20-35 ft	Pink, purple	Part shade, shade	April-May			
Chionanthus virginicus	White fringetree	2,3	20-35 ft	White	Full sun, part shade, shade	May-June			
Cornus florida	Flowering dogwood	2,3	35-50 ft	White	Part shade, shade	April-May			
Crataegus crus-galli	Cockspur hawthorn	2,4	20-35 ft	White	Full sun, part shade	May-June			
Crataegus viridis	Southern thorn	1,2	20-35 ft	White	Part shade, shade	April			
Ilex opaca	American holly	2	65 ft	White	Full sun, part shade	May-June			
Juniperus virginiana	Eastern red cedar	2,3	50 ft	Evergreen	Full sun	March-April			
Magnolia virginiana	Sweetbay magnolia	1,2	30 ft	White	Full sun, part shade, shade	May-July			
Ostrya virginiana	Eastern hop-hornbeam, ironwood	2	25-40 ft	Red, brown	Part shade, shade	May			
Pyrus (Malus) angustifolia	Southern crabapple	2	25 ft	Pink	Part shade, shade	April-May			
Pyrus (Malus) coronaria	Sweet crabapple	2	20-26 ft	Pink	Full sun	April-May			
Sassafras albidum	Sassafras	2	35-50 ft	Yellow, green	Full sun, part shade	April-May			

NATIVE PLANT LIST

TALL SHRUB						
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure	Bloom
Alnus serrulata	Smooth alder	1,2	12-20 ft		Full sun	March-April
Aralia spinosa	Devil's walking stick	2	39 ft	White	Full sun, part shade	June-August
Ilex decidua	Possom haw	2,3	33 ft	White	Full sun, part shade	April-May
Kalmia latifolia	Mountain laurel	2,3	10 ft	White	Full sun, part shade, shade	May-July
Rhus copallina	Shining or winged sumac	3	20-30 ft	Green, yellow	Full sun, part shade	July-August
Rhus typhina	Staghorn sumac	3	33 ft	Green, yellow	Full sun	June-July
Viburnum prunifolium	Black haw	1,2	26 ft	White	Full sun, part shade	April-May

MEDIUM SHRUB									
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure	Bloom			
Aronia arbutifolia	Red chokeberry	1,2,3	1.5-12 ft	White	Full sun	March-May			
Baccharis halimifolia	High-tide bush, groundsel tree	1,2	<10 ft	White	Full sun	August-September			
Callicarpa americana	American beautyberry	2	6 ft	Purple	Part shade, shade	June-August			
Cephalanthus occidentalis	Buttonbush	1,2	10 ft	White	Full sun	July-August			
Clethra alnifolia	Sweet pepperbush, summersweet	1,2	<6-10 ft	White	Part shade, shade	July-September			

WATER USE ZONES

- 1 = Regular irrigation
- 2 = Moderate, occasional irrigation
- 3 = Low, no irrigation (natural rainfall)

LOW SHRUB									
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure	Bloom			
Comptonia peregrina	Sweet fern	2	3 ft	Green	Full sun, part shade	April-May			
Euonymus americanus	Strawberry bush, hearts-abustin'	2	1½-6½ ft	Green	Part shade	May-June			
Gaylussacia baccata	Black huckleberry	2,3	1½ ft	White	Part shade, shade	May-June			
Gaylussacia frondosa	Dangleberry	1,2,3	2-4 ft	Green, purple	Full sun, part shade	April-June			
Hypericum densiflorum	Dense St. John's wort	1,2,3	1½-6 ft	Yellow	Part shade, shade	July-September			
Kalmia angustifolia	Sheep laurel	1,2,3	2-5 ft	White	Full sun, part shade	May-July			
Lyonia mariana	Stagger-bush	2	½-6½ ft	White	Part shade, shade	May-June			
Prunus maritima	Beach plum	2	1-8 ft	White	Full sun, part shade	April-May			
Rhododendron atlanticum	Dwarf or coast azalea	2	3-6 ft	White	Part shade, shade	April-May			
Rosa carolina	Pasture rose	2,3	½-3 ft	Pink	Full sun, part shade	May-June			
Vaccinium vacillans (V. pallidum)	Early lowbush blueberry	2	1½ ft	White	Full sun, part shade	April-May			
Viburnum acerifolium	Maple-leaved arrowwood	2,3	3-6½ ft	White	Full sun, part shade	April-May			

GROUNDCOVER									
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure	Bloom			
Asarum canadense	Wild ginger	2	<1 ft	Brown	Part shade, shade	April-May			
Carex glaucodea or C. flaccosperma	Blue wood sedge	2,3	½-2 ft	Brown, red	Part shade	June-July			
Carex pensylvanica	Sedge	3	½-1½ ft	Red, white	Part shade, shade	May-June			
Chimaphila maculata	Striped wintergreen	3	<1 ft	White	Part shade, shade	June-August			
Chrysogonum virginianum	Green-and-gold	2,3	<1 ft	Yellow	Part shade	March-June			
Gaultheria procumbens	Wintergreen	2,3	<1 ft	White	Part shade, shade	June-August			
Hepatica americana	Round-lobed hepatica	2,3	<1 ft	White	Part shade, shade	March-June			
Opuntia humifusa (O. compressa)	Eastern prickly-pear cactus	3	<1 ft	Yellow	Full sun	June-July			
Maianthemum canadense	Canada mayflower	2	<1 ft	White	Part shade, shade	May-July			
Mitchella repens	Partridgeberry	2,3	<1 ft	White	Part shade, shade	July-September			
Sedum ternatum	Mountain stonecrop	2	<1 ft	Green, white	Part shade, shade	April			
Uvularia sessilifolia	Straw lily	2	<1 ft	Yellow	Full sun, part shade, shade	May-June			

HERBACEOUS						
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure	Bloom
Arisaema triphyllum	Jack-in-the-pulpit	1,2	1 ft	Striped	Part shade, shade	April-June
Asclepias incarnata	Swamp milkweed	2	4 ft	Pink	Full sun, part shade	May-June
Asclepias syriaca	Common milkweed	3	6 ft	Purple	Full sun	June-August
Asclepias tuberosa	Butterflyweed	2,3	3 ft	Orange	Full sun, part shade	May-June
Aster laevis	Smooth blue aster	3	2-5 ft	Blue, purple	Full sun	August-October
Aster novae-angliae	New England aster	2,3	<6 ft	Purple	Full sun, part shade	September-October
Aster novi-belgii	New York aster	2	3-4 ft	Blue, purple	Full sun, part shade	July-October
Aster pilosus	White heath aster	3	3-5 ft	White	Full sun, part shade	August-October
Baptisia tinctoria	Wild indigo	3	3 ft	Yellow	Full sun	June-September
Caltha palustris	Marsh marigold	1	1-2 ft	Yellow	Full sun, part shade	April-June
Chelone glabra	White turtlehead	1,2	3 ft	White	Part shade	August-October
Chrysogonum virginianum	Green-and-gold	2,3	<1 ft	Yellow	Part shade	March-June
Chrysopsis mariana	Maryland golden aster	3	½-2 ft	Yellow	Full sun, part shade	August-October
Cimicifuga racemosa	Black snakeroot	2	5 ft	White	Shade	June-July
Coreopsis tinctoria	Tickseed sunflower	3	1-3 ft	Yellow	Full sun, part shade	June-September
Desmodium paniculatum	Panicled tick-trefoil	3	2-4 ft	Purple	Full sun, part shade	July-September
Eupatorium dubium	Joe-Pye weed	1,2	4-7 ft	Purple	Full sun, part shade	July-September
Eupatorium fistulosum	Joe-Pye weed	2,3	1½-6 ft	Pink	Full sun	July-September
Eupatorium hyssopifolium	Hyssop-leaved thoroughwort	2,3	1-4 ft	White	Full sun, part shade, shade	August-October
Eupatorium perfoliatum	Common boneset	1,2	3½ ft	White	Full sun, part shade	July-October
Eupatorium purpureum	Green-stemmed Joe-Pye weed	2	2-6 ft	Pink	Full sun, part shade	July-September
Eupatorium rugosum	White snakeroot	2,3	3½ ft	White	Part shade	June-August
Helenium autumnale	Yellow sneezeweed	2	1½-3 ft	Yellow	Full sun, part shade, shade	August-November
Helianthus angustifolius	Swamp sunflower	1,2	5 ft	Yellow	Full sun	August-October
Houstonia caerulea	Bluet, innocence	2	<1 ft	Blue, purple, white	Full sun, part shade	April-June
Liatris graminifolia	Grass-leaf blazingstar	2,3	1-3 ft	Purple	Full sun, part shade	September-October
Liatris spicata	Gayfeather, blazingstar	1,2	3 ft	Purple	Full sun	August-October
Lilium superbum	Turk's cap lily	1,2	4-7 ft	Yellow, orange, red	Full sun, part shade	July-August
Lobelia cardinalis	Cardinal flower	1,2	3 ft	Red	Full sun, part shade	July-September
Monarda fistulosa	Wild bergamot	2,3	1½-5 ft	Pink, purple	Full sun, part shade	July-August

HERBACEOUS								
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure	Bloom		
Monarda punctata	Horsemint	3	½-3 ft	Yellow, purple	Full sun	June-October		
Oenothera fruticosa	Narrow-leaved sundrops	1,2	2 ft	Yellow	Full sun	June-September		
Opuntia humifusa (O. compressa)	Eastern prickly-pear cactus	3	<1 ft	Yellow	Full sun	June-July		
Podophyllum peltatum	Mayapple	2	1 ft	White	Part shade, shade	April-May		
Polygonatum biflorum	Solomon's seal	2,3	½-2 ft	White	Part shade, shade	May-June		
Rudbeckia hirta	Black-eyed Susan	2,3	2 ft	Yellow	Full sun, part shade	June-October		
Rudbeckia laciniata	Tall or green-headed coneflower	2	1½-9 ft	Yellow	Full sun, part shade	July-September		
Senna marilandica (Cassia marilandica)	Maryland wild senna	3	3-4 ft	Yellow	Part shade	July-August		
Silene caroliniana	Wild pink	2,3	½ ft	White	Full sun, part shade	April-May		
Sisyrinchium atlanticum	Coastal blue-eyed grass	1,2	½-2½ ft	Blue, purple	Full sun	May-July		
Sisyrinchium graminoides	Blue-eyed grass	2,3	½-1½ ft	Blue, purple	Full sun, part shade	April-June		
Smilacina racemosa	False Solomon's seal	2	2½ ft	White	Part shade, shade	May-July		
Solidago caesia	Blue-stemmed goldenrod	2,3	1-3 ft	Yellow	Full sun, part shade	August-October		
Solidago juncea	Early goldenrod	2,3	1-4 ft	Yellow	Full sun	June-October		
Solidago nemoralis	Gray goldenrod	3	½-3 ft	Yellow	Full sun, part shade	July-November		
Solidago rugosa	Wrinkle leaf goldenrod	1,2	1-6 ft	Yellow	Full sun	August-October		
Solidago sempervirens	Seaside goldenrod	2	6 ft	Yellow	Full sun, part shade	August-October		
Symplocarpus foetidus	Skunk cabbage	1	1-3 ft	Green, purple	Shade	March-April		
Thalictrum dioicum	Early meadow rue	2	2 ft	Green, purple	Shade	April-May		
Thalictrum polygamum	Tall meadow rue	2	3-6 ft	White	Full sun, part shade, shade	June-July		
Tiarella cordifoli	Foamflower	2	1 ft	White	Full sun, part shade, shade	April-July		
Tradescantia virginiana	Virginia spiderwort	2	2-3 ft	Blue, purple	Full sun, part shade, shade	April-June		
Trillium grandiflorum	White trillium	2	1 ft	White	Shade	April-June		
Verbena hastata	Blue vervain	1,2	4 ft	Blue, purple	Full sun, part shade	June-October		
Vernonia noveboracensis	New York ironweed	2	4-8 ft	Purple	Full sun	August-October		
Viola pedata	Bird's foot violet	3	<1 ft	Purple	Full sun, part shade	March-June		
Yucca filamentosa	Adam's needle	3	2 ft	White	Full sun	June-September		

GRASS/GRASSLIKE									
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure	Bloom			
Andropogon virginicus	Broomsedge	3	1-3 ft	Green, red	Full sun, part shade	August-November			
Carex glaucodea or C. flaccosperma	Blue wood sedge	2,3	½-2 ft	Brown, red	Part shade	June-July			
Carex pensylvanica	Sedge	3	½-1½ ft	Red, white	Part shade, shade	May-June			
Carex stricta	Tussock sedge	1,2	1-3 ft	Green, white	Full sun, part shade	May-August			
Chasmanthium latifolium	Wild oats, river oats	2	2-3 ft	Green	Part shade	July-September			
Elymus canadensis	Canada wild rye	2,3	3-4½ ft	Green	Full sun	June-October			
Elymus hystrix (Hystrix patula)	Bottlebrush grass	2,3	3 ft	Green	Full sun, part shade, shade	September-October			
Elymus virginicus	Virginia wild rye	2,3	1½ ft-5½ ft	Green	Part shade, shade	June-October			
Panicum amarum	Coastal panic grass	3	1-3 ft	Green	Full sun	September-February			
Panicum virgatum	Virginia switchgrass	1,2	3-6 ft	Green, yellow	Full sun	July-October			
Schizachyrium scoparium	Little bluestem	3	4 ft	Green, red	Full sun, part shade	August-October			
Sorghastrum nutans	Indiangrass	3	5-7 ft	Green, yellow	Full sun, part shade	August-September			
Tripsacum dactyloides	Gama grass	1,2	6-9 ft	Green, yellow	Full sun, part shade	May-September			

VINE									
Botanical Name	Common Name	Water Use Zone	Height	Color	Exposure	Bloom			
Bignonia capreolata	Crossvine	1,2	30-45 ft	Orange, red, yellow	Part shade, shade	May-June			
Campsis radicans	Trumpet creeper	3	30+ ft	Orange, red, yellow	Full sun	July-September			
Celastrus scandens	American bittersweet	2	<45 ft	Green	Full sun, part shade, shade	May-June			
Clematis virginiana	Virgin's bower	3	6-12 ft	White	Full sun	July-September			
Lonicera sempervirens	Coral honeysuckle	3	10-20+ ft	Red	Full sun	April-July			
Parthenocissus quinquefolia	Virginia creeper	1,2	<45 ft	Green, white	Full sun, part shade, shade	June-August			
Passiflora incarnata	Passionflower, maypops	3	25 ft	White, pink	Full sun	June-September			

TRANSPORTATION CONDITIONS

Vanpool Amenities

The Agency funds a fleet of 10 trainee van pools. These van pools play a vital role in reducing driving and parking demands on campus. Per the previous TMP, the vanpools transport an average of 70 out of town trainees per day to and from area hotels. These vanpools capture the largest share of non-auto commute trips to the RTC, with roughly nine percent of all commute trips to campus arriving on van pool.

Bicycle Amenities

Per the previous TMP, the following amenities are maintained by RTC and are available for use by both employees and trainees.

- Bike Racks The Agency actively works to evaluate and adjust its supply of bike racks at RTC to meet user demand. Bike racks are located across campus and are primarily used for training purposes, but may be deployed for use by commuters as needed and appropriate.
- Showers and Lockers There are training facilities throughout the campus which offer free shower access to commuters who bike or walk to campus. Towel service and lockers are also offered.
- The agency offers RTC employees a bicycle benefit of up to \$20 per month or \$240 a year to cover bike repairs and expenses so long as they're riding "pedaled" bikes and not enrolled in the Agency's other transit subsidies.

Carshare Amenities

The RTC has numerous official and pool vehicles that serve the same function as carshare vehicles and are available for employees to use to get to places on or off campus.

Transportation Management Plan

A Transportation Management Plan (TMP) and a Transportation Impact Study (TIS), including traffic counts and traffic operational analysis, were conducted as a part of this master plan development. Transportation conditions related to the Campus have not appreciably changed since the 2017 Master Plan. The on-campus transportation facilities and campus population are generally unchanged. The planned campus population would not substantially change traffic operations. Also, transit, vanpool/carshare and bicycle amenities are generally the same as in the previous plans.

Transportation conditions related to the Campus have not appreciably changed since the 2017 Master Plan. The oncampus transportation facilities and campus population are generally unchanged. The planned campus population would not substantially change traffic operations.

In addition, transit, vanpool/carshare and bicycle amenities are generally the same as in the previous plans. Therefore, it is suggested that the previous TMP is still applicable to this Master Plan.

Traffic Operations

Traffic count data for the Campus was collected on Tuesday May 17, 2022. Between 5:00 A.M. and 6:00 P.M., 1,397 were identified using the main entrance. The inbound traffic is more concentrated in the morning and the outbound traffic is spread out throughout the afternoon. The majority of traffic comes to and from the west.

Off-campus, the weekday daily traffic volume on Powder Mill Road east of the Baltimore Washington Parkway was 18,800 in 2019

(pre-COVID), per the MDOT Annual Average Traffic Volume Map. This traffic volume indicates that Powder Mill Road is near capacity for a two-lane roadway, resulting in congestion, particularly at the Baltimore-Washington Parkway interchange.

The through volume along Powder Mill Road can also cause slight delays for vehicles turning out of the campus during peak traffic periods. Additionally, due to the influx of entering vehicles during the A.M. peak hour(s) and the short length between the roadway and gate, vehicles were observed backing up onto Powder Mill Road. The driveway reconfiguration will address the queue overflow by providing additional storage for vehicles as they wait to enter the security gate. A 300-foot eastbound left-turn lane should also be constructed at the reconfigured entrance driveway to provide storage for left-turning vehicles.

No capacity limitations or congestion at/within the Campus were observed or are projected in the future other than at the Main Gate on Powder Mill Road, as described earlier.

Gate Operations

Data from entry control at the Main Gate indicating the number of persons entering per weekday is shown below. The entry traffic ranges from approximately 600 to 900, with an 85th percentile value of 835. The TIS Study estimated that nine percent of vehicles were non-single-occupancy, primarily from trainees who utilize vanpools. The non-SOV split is assumed to increase to 13 percent in the future. Assuming 4 persons/vehicle in those vehicles, results in an average vehicle occupancy of 1.3. This would indicate an entering volume of 642 vehicles per day. Based on Institute of Transportation Engineers (ITE) data for an office building, about 14

percent of daily traffic enters in the peak hour, which would equate to 92 entering vehicles in the morning peak hour and 16 percent exiting during the afternoon peak hour, or 101 vehicles.

Per Military Surface Deployment and Distribution Command Transportation Engineering Agency (SDDCTEA) data, entry gates can typically accommodate 300-450 vehicles per hour per lane, however, this does not account for peaking within the hour period, nor the constraints at the Main Gate (serpentine barriers, congstion at visitor parking, opposing traffic on one-lane roadway), which results in the observed congestion and queuing at the Main Gate entry.

Parking Operations

A supply side inventory of all available parking spots and a demand/utilization side inventory count of parked vehicles were conducted in March, October, and November 2021. March and October were virtual desktop audits while the November count was in the field. During these inventories, 674, 651 and 611 parked cars were counted, averaging 645, or 52 percent of the total 1,235 spaces inventoried. For the marked parking lots, an average of 499 parked vehicles were counted, utilizing 65 percent of the marked stalls. However, for the large lots, occupancy was 87 percent in the Merletti lot, 98 percent in the Wilke lot, 61 percent in the Bowron lot and 70 percent in the Maloney lot. Parking percentages for all parking areas are shown on the figure to the right. Parking occupancies above 85 percent are generally considered as a full lot as finding open spaces becomes difficult.

It should also be noted that around 155 of the parked vehicles, and 119 in the marked lots, were identified as "fleet" vehicles or stored vehicles. This is approximately 16 percent of the capacity of the marked parking stalls, so moving many of these vehicles to parking areas in lower demand would free up higher demand parking areas.

NETWORK PLAN

COST ESTIMATE

US Secret Service James J. Rowley Training Complex MASTER PLAN UPDATE

STAKEHOLDER INTERVIEW MINUTES PACKAGE





List of Acronyms

ist of Actoriyins		
American Institute of Architects P - American Institute of Certified nners T - Asset Management Team D - Administrative Officer of the Day HIS - Animal and Plant Health pection Service A - Assistant Special Agent in Charge A - Assistant Special Agent in Charge A - Assistant Special Agent P - All Terrain Vehicle - Audio Visual RC - Beltsville Agricultural Research tler BE - Baltimore Gas & Electric EP - Basic Investigation of Computer I Electronic Crimes Program - C - Computer Aided Design T - Counter Assault Team Counter Federal File Filer FSAME - Federal Military Engine FY - Fiscal Yea GCR - Mainten GGP - Green G GIS - Geograpl GPCP - Guidin Professional GSA - General GOV - Governr H HAMMER - Ha Response HVAC - Heatin Conditioning	FLETC – Federal Law Enforcement Training Center FSAME – Fellow Society of American Military Engineers FY – Fiscal Year G GCR – Maintenance Company GGP – Green Globes Professional GIS – Geographic Information System GPCP – Guiding Principles Compliance Professional GSA – General Services Administration GOV – Government H HAMMER – Hazardous Agent Emergency Response HVAC – Heating, Ventilating, and Air Conditioning	NIFA – National Institute of Food and Agriculture NSSE – National Special Service Event 0 0&M – Operations and Maintenance 0SI – Office of Special Investigations 0SP – Office of Strategic Planning P PDT – Position Designation Automation Tor PE – Professional Engineer PEPCO – Utility Company PhD – Doctor of Philosophy PIC – Personal Identification/Verification Ca POC – Point of Contact PPD – Personal Protective Detail PPE – Personal Protected Information PDH – Professional Development Hours PM – Project Manager POV – Personal Owned Vehicle PRV – Plant Replacement Value PT – Physical Training PV – Photovoltaic
ID – Criminal Investigation Division NC – Central Network Control NOS – SU – Crime Scene Unit T –Control Tactics	LE – Law Enforcement RA – Reg LED – Light Emitting Diode RAP – Re LEED AP – Leadership in Energy and RFP – Re	R RA – Registered Architect RAP – Resource Allocation Plan RFP – Request for Proposal RTC – Rowley Training Center
HS – Department of Homeland Security	LF – Linear Feet LLC – Limited Liability Corporation	S SA – Special Agent
M – Emergency Medicine MT – Emergency Medical Technician RT – Emergency Response Team SQD – Explosive Safety Quantity Distance	M M – Million MNCPPC – Maryland National Capital Planning and Parks Commission MRI – Magnetic Resonance Imaging	SAP – Safety Assessment Program SAS – Special Agent Service SASS – Student Administration and Scheduling System SATC – Special Agent Training Course SF – Square Feet
AIA – Fellow American Institute of rchitects AICP – Fellow American Institute of	N NCFI – Electronic Security Platform NCPC – National Capital Planning	SHPO – State Historic Preservation Office SOTS – Special Operations Training Specialist

Commission

ND - Neighborhood Development

USSS James J. Rowley Training Complex - MASTER PLAN UPDATE INTERVIEW PACKAGE

Certified Planners

SS - Secret Service

SS - Sanitary Sewer

UrbanCollaborative

SSA - Senior Special Agent

T

TL - Technical lead

U

UAV - Unmanned

UC - Urban Collaborative

UD - Uniform Division

UDTC - Uniformed Division Training

Course

UESC – Utility Energy Service Contract USSS – United States Secret Service

W

WTP - Water Treatment Plant



Table of Contents

James J. Rowley Training Center ADP Overview	6
Leadership and Strategic Direction	
Special Agent in Charge (SAC) Durkan Interview	7
Strategic Planning	8
Training	
Overall Training	10
General Protection and Safety Training	12
Firearms Training	13
Driver Training	15
Electric/Information Technology/Cyber Training	17
Physical Skills Training	18
Canine Training	20
HAMMER Training	21
Registrar's Office	23
Support	
Armory Storage and Distribution	24
Supply	25
Safety, Health and Environmental	26
Security	28
Facilities	30
Maintenance	32
Project Team Meeting	34
Appendix A	
Interview Questions	38
Appendix B	
Interview Schedule	39
Appendix C	
Acknowledgments	40

ACKNOWLEDGMENTS

Adam Bossi Adrain Williams

Andrew Ackley, Uniformed Division Training

Anthony Jernigan, Environmental

Anthony Brancato

Brandon Higbee, Armory

Cole Beth, SHPO

Chris Pozerski, Student Affairs

Christine Osei, PGC Cris Neish, GCR

Dante McIver, Security and Emergency Services
Darryl Moser, Tran System Project Manager

David Cohen, Weapons and Ordnance

David Getz, GCR David Gruen, RTC David Simmons

David Wreath, Student Affairs

Dean Tramontana, Regional In Service Training

Erik Sulonen, Canine Training

George Winfield, PTS

Ivy Tompson

Jake Renager, Special Programs

Jason, SOTS

Jeffrey Soliday, Armory

Jerome deVerrier, Tran System Civil Engineer

John Durkan, SAC

John Hickey, Strategic Planning

John Shintey John Whipp, PTS Joseph Cister, Armory Josh Wallin, PDT Kibby Powell, Facilities

Kimberly Lokhard, Security and Emergency Preparedness

Lauren Evans, Facilities

Lois Blevins, Training Research and Policy Development

Luis Castillo, Range Operations Mark Endres, Advanced Skills

Mark Khalil, Facilities

Mark Meisner, Physical Training

Maya Brown, Scheduling Michael Ensor, Armory Michael Kunmer, Armory Michael Wahlsrfot

Michelle Trachom, Registrar

Mohammad Khalil

O'Tisha Williams, Property/Supply Randy. Stair, Emergency Services

Richard Allwein Richard Tompson

Robert Unger, Protective Intelligence

Scott Curry

Scott Healy, Physical Training

Scott Rollin, RTC

Steven Basinger, Electronic Crimes

Tom Masog, PGC

Troy Sarria, Strategic Planning

Tyler Smith Vince Stofa, PDT William Fowler, RTC

CONSULTANT TEAM

Dr. Mark Gillem, PhD, FAIA, FAICP, Lt Col USAF Ret, Principal-in-Charge, Facilitator

Dr. Paula Loomis, PhD, FAIA, FSAME, AICP, LEED AP, Colonel USAF Ret,

Project Manager, Senior Planner, Senior Architect Kellie Dziedzic, AICP, LEED AP ND, Technical Lead Zoe Anton, LEED AP ND, PMP, Environmental Planner

Jason Fajardo, AICP, Architectural Designer

Patrick McCrary, Assistant Planner, Landscape Designer Mike Knowles, Requirements and Asset Evaluations

Eric Ferryman, GISP, GIS, Security Manager

Rachel Weston, Intern Amanda Lyda, Intern

Charlene Vaughn, AICP, Senior Planner, NCPC Coordinator Darryl Moser, AIA, GGP, GPCP, Transystems Project Manager

Jerome Deverrier, PE, Engineer

Mike Wahlstedt, PE, Transportation Engineer

ACRONYMS

AASHTO. American Association of State Highway and	CTControl Tactics	LFLinear Feet
Transportation Official	DC District of Columbia	LID Low Impact Development
ACHP Advisory Council on Historic Preservation	DHS Department of Homeland Security-	LLC Limited Liability Corporation
AIA American Institute of Architects	EM Emergency Medicine	M Million
AICP American Institute of Certified Planners	EMS Emergency Management Services	MD Maryland
AMT Asset Management Team	EMT Emergency Medical Technician	MDNR Maryland Department of Natural Resources
AOD Administrative Officer of the Day	ERT Emergency Response Team	MDP Maryland Department of Planning
APHIS Animal and Plant Health Inspection Service	ESQD Explosive Safety Quantity Distance	MHT Maryland Historic Trust
ASAIC Assistant Special Agent in Charge	FAIA Fellow American Institute of Architects	MNCPPC Maryland National Capital Planning and Parks
ASA Assistant Special Agent	FAICP Fellow American Institute of Certified Planners	Commission
ATV All Terrain Vehicle	FITC Firearms Instructor Training Course	MP Master Plan
AV Audio Visual	FLETC Federal Law Enforcement Training Center	MRI Magnetic Resonance Imaging
B Building	FPS Federal Protective Service	MUTCD Manual of Uniform Traffic Control Devices
BARC Beltsville Agricultural Research Center	FSAME Fellow Society of American Military Engineers	NASA National Aeronautical and Space Agency
BG&E Baltimore Gas & Electric	FY Fiscal Year	NCFI Electronic Security Platform
BICEP Basic Investigation of Computer and Electronic Crimes	GCR Maintenance Company	NCPC National Capital Planning Commission
Program	GGP Green Globes Professional	ND Neighborhood Development
BWI Baltimore Washington International Airport	GIS Geographic Information System	NEF National Essential Function
CAD Computer Aided Design	GPCP Guiding Principles Compliance Professional	NIFA National Institute of Food and Agriculture
CAT Counter Assault Team	GSA General Services Administration	MPS National Park Service
CCD Customer Concept Document	GOV Government	NSSE National Special Service Event
CCTV Closed Circuit Television	HAMMER Hazardous Agent Emergency Response	O&M Operations and Maintenance
CDU Civil Disturbance Unit	HVAC Heating, Ventilating, and Air Conditioning	OSI Office of Special Investigations
CFE Carbon Free Emission	IPInternet Protocol	OSP Office of Strategic Planning
CID Criminal Investigation Division	JET Joint and External Training	PBS Public Building Service
CMU Concrete Masonry Unit	LELaw Enforcement	PDT Position Designation Automation Tool
CNC Central Network Control	LED Light Emitting Diode	PE Professional Engineer
COA Course of Action	LEED Leadership in Energy and Environmental Design	PEPCO Utility Company
CSU Crime Scene Unit	LEED AP . Leadership in Energy and Environmental Design	PhD Doctor of Philosophy
CSU Counter Sniper Unit	Advance Professional	PIC Personal Identification/Verification Card

ACRONYMS

POC Point of Contact	SOTS Special Operations Training Specialist
PPD Personal Protective Detail	SIMLAB . Simulation Lab
PPE Personal Protective Equipment	SS Secret Service
PPI Personal Protected Information	SS Sanitary Sewer
PDH Professional Development Hours	SHPO State Historic Preservation Office
PM Project Manager	SOTS Special Operations Training Specialist
POV Personal Owned Vehicle	SSA Senior Special Agent
PRV Plant Replacement Value	SWOT Strengths, Weaknesses, Opportunities, and Threats
PT Physical Training	THPO Tribal Historic Preservation Office
PV Photovoltaic	TLTechnical lead
RA Registered Architect	UAS Unmanned Aerial System
RAP Resource Allocation Plan	UAV Unmanned
RBL Required Build Line	UC Urban Collaborative
RFP Request for Proposal	UD Uniform Division
RTA Regional Transit Authority	UDTC Uniformed Division Training Course
RTC Rowley Training Center	UESC Utility Energy Service Contract
SA Special Agent	UFC Unified Facilities Criteria
SAIC Special Agent in Charge	US United States
SAIC Special Agent in Charge	USDA United States Department of Agriculture
SAP Safety Assessment Program	USFW United States Fish and Wildlife
SAS Special Agent Service	USGS United States Geological Survey
SASS Student Administration and Scheduling System	USSS United States Secret Service
SATC Special Agent Training Course	WTP Water Treatment Plant
SD Standard Deviation	
SDDCTEA Surface Deployment and Distribution Command	
Transportation Engineering Agency	
SEA Supplemental Environmental Assessment	
SFSquare Feet	

SHPO..... State Historic Preservation Office

"Make no little plans; they have no magic to stir men's blood and probably themselves will not be realized. Make big plans; aim high in hope and work, remembering that a noble, logical diagram once recorded will never die, but long after we are gone be a living thing, asserting itself with ever-growing insistency."

Daniel Burnham, 1846-1912



