

Office of University Building Official (OUBO)

Building Safety Month Training Symposium

"Thriving With Change" - Encouraging collective connections and open communication with purpose of building shared understanding and approach to change.

Past, Present, & Future

Stakeholders: GMU Facilities, Project managers, CFR's, Contractors, & Registered Design Professionals

OUBO Staff



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University Building Official

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Agenda

The primary goal of this initiative is to enhance our understanding and execution of core processes. By focusing on accuracy, we aim to improve both the speed of our delivery and the overall quality of our built environment.

Past:

Code update, OUBO website, trainings, HECO, DPOR regs

Present:

OUBO Fee schedule update, 13.1UBO, plan reviews, Ssi, permits, inspections, Asi's, close out documents

Future:

Code data, sheet block, checklist, project summary, HECO update



Office of University Building Official

4400 University Drive, MS 1E4; Fairfax, VA 22030 Telephone: (703) 993-6070

DATE: January 25, 2024

TO: Frank Strike, P.E.

Vice President, Facilities & Campus Operations

Alex Izard, P.E.

AVP, Planning, Design, & Construction

FROM: David M. Kidd, P.E.

University Building Official

SUBJECT: 2021 USBC Adoption

In accord with the Code of Virginia §36-98.1, and the Virginia Uniform Statewide Building Code, 2021 edition, Section 103.7 State buildings and structures, the USBC shall be applicable to state-owned buildings and structures, and to buildings and structures built on state-owned property.

The current applicable building code is the Virginia Uniform Statewide Building Code, 2021 Edition (2021 USBC) and is available at http://codes.iccsafe.org/codes/virginia. The followings parts of 2021 USBC are applicable to GMU buildings and structures:

Part I, the Virginia Construction Code (2021 VCC) for new construction,
Part II, the Virginia Existing Building Code (2021 VEBC) for construction and rehabilitation activities in
existing buildings and structures.

The 2021 USBC shall be applicable to the following projects:

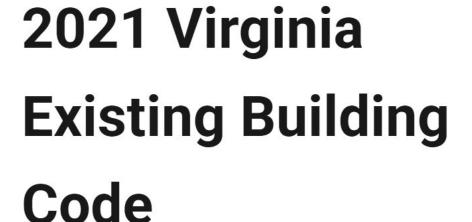
- Capital Outlay and Non-Capital Outlay projects for which a Building Permit has not been issued by 01/18/2025.
- Capital Outlay and Non-Capital Outlay projects for which a Building Permit has been issued, but Work has not commenced by 01/18/2025.

2021 USBC





2021 Virginia
Construction
Code

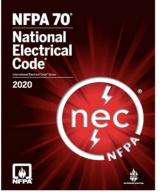




2017 ICC A117.1
Accessible and
Usable Buildings
and Facilities

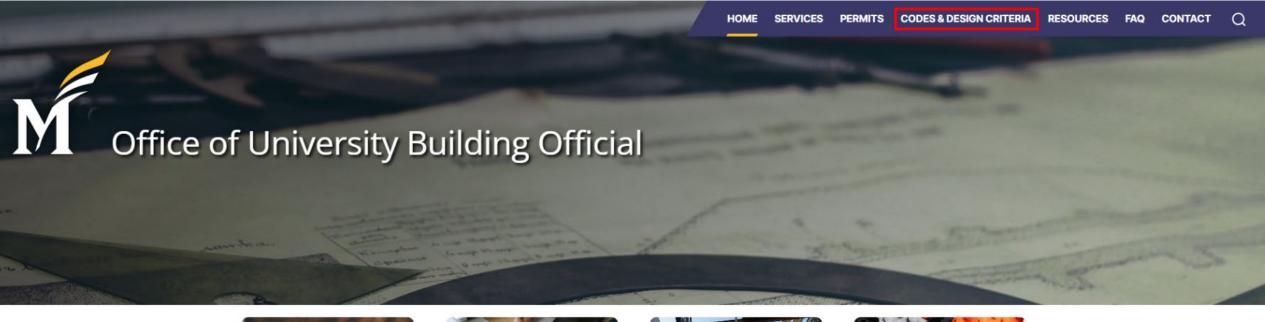


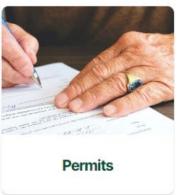
2021 Virginia
Energy
Conservation
Code





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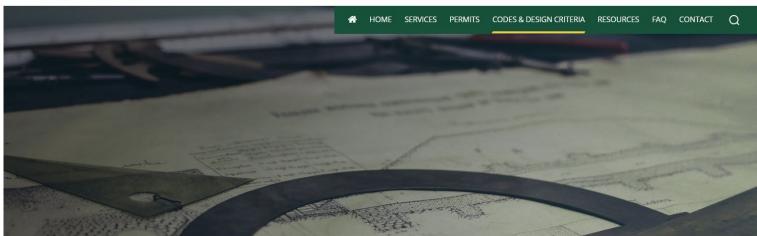








Office of University Building Official



Codes & Design Criteria

HOME / RESOURCES / CODES & DESIGN CRITERIA

George Mason University is required to enforce the Virginia Uniform Statewide Building Code (USBC) and the Statewide Fire Prevention Code (SFPC). These codes are administered by the <u>Virginia Department of Housing and Community Development</u> and reference the International Codes as published by the <u>International Code Council</u>. Periodic amendments are utilized to update codes and incorporate new reference standards.

- 2021 Virginia State Building Codes
- Virginia DHCD Building and Fire Codes Overview
- National Fire Protection Association

The following load criteria are based on <u>Chapter 16 of the Virginia Constructions Code</u>, 2021, and <u>Chapter 3 of the 2021 Virginia Residential Code</u>.

Туре	Criteria	
Ground snow load	67 psf	3.21 kN/m ²
Wind: Basic Ultimate (V _{ult})	90 mph 115 mph	40 m/s 51 m/s
Frost depth	24 in.	600 mm
Earthquake spectral response acceleration	Ssd (short periods): 0.16 S1d (1-second period): 0.042	
Residential Seismic Design Category	В	
Weathering probability for concrete	severe	
Termite infestation probability	moderate to heavy	
Decay probability	slight to moderate	
Ice shield underlayment required	yes	
Flood hazards (date of entry into National Flood Insurance Program)	3/5/1990	
Winter Design Temperature	17°F	-9°C
Air freezing index	<=1500°F	<=815°C
Mean annual temperature	50°F	10°C

2021 Virginia State Building Codes

HOME / 2021 VIRGINIA STATE BUILDING CODES

The 2021 Virginia Uniform Statewide Building Code (USBC) is the currently adopted building code for all construction in Virginia.

Codes and standards referenced by the 2021 USBC & current NFPA standards:

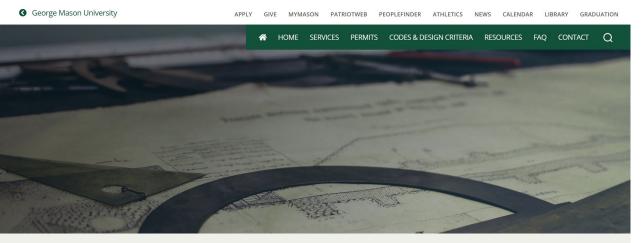
- 2021 Virginia Construction Code
- 2021 Virginia Existing Building Code
- 2021 Virginia Maintenance Code
- 2021 Virginia Energy Conservation Code
- 2021 Virginia Fuel Gas Code
- 2021 Virginia Mechanical Code
- 2021 Virginia Plumbing Code
- 2021 Virginia Statewide Fire Prevention Code
- 2021 Virginia Building and Fire Codes Related Regulations
- 2021 International Fire Code
- 2017 ICC A117.1 Accessible and Usable Building and Facilities
- NFPA 70 (2020 Edition)
- NFPA 13 (2019 Edition)
- NFPA 72 (2019 Edition)

Training



Office of University Building Official

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Training

HOME / TRAINING

Training

HOME / TRAINING

3 M Construction Training

• 3 M Construction Training

Fire Protection Training

- Fire Protection Part I Recording Link
- Fire Protection Part II Recording Link

OUBO HECO Training Sessions

- Session 1: OUBO Charter, HECO Chapter 11, OUBO Website Introduction & e-Builder Recording Link
- Session 2: HECO Chapter 7 & Related Appendices Recording Unavailable
- Session 3: HECO Chapter 8 & Related Appendices Part 1 Recording Link
- Session 4: HECO Chapter 8 & Related Appendices Part 2 Recording Unavailable
- Session 5: HECO Chapter 8 & Related Appendices Part 3
- Session 6: OUBO e-Builder Processes Overview Recording Link

OUBO 2024 Building Safety Month Training Series

- 2021 Code Change Training May 15th 2024 Recording Link
- Roofing & Special Inspections Training May 22nd 2024 Recording Link
- Question & Answer Session May 29th 2024 Recording Link



A/E Seal, Signature, Date

SECTION 3.13 REQUIREMENTS FOR A/E SEALS AND SIGNATURES

3.13.1 General: The Seal and Signature of the licensed Professional Engineer, Architect or Certified Landscape Architect on the drawings provides notice to the public the drawings are complete and that the professional has exercised complete direction and control over the work to which the seal or signature is affixed. All plans and specifications for building projects designed for the University must bear the seal and signature of the responsible licensed professional.

In accordance with the Virginia Administrative Code

(VAC) §18VAC10-20-760 - Board for Architects, Professional Engineers, Land Surveyors, Certified Interior Designers and Landscape Architects Regulations - An electronic seal, signature and date may be used in place of an original seal, signature and date when it is a unique identification of the professional, is verifiable and its use is under the professional's direct control. The electronic seal shall be 2 inches in diameter, meeting all criteria of the regulations referenced above. The printed name shall appear above the license number and both shall be legible. An electronic signature, which may contain digital signature verification, is acceptable as long as all relevant text is legible.

Each drawing to be reproduced shall show:

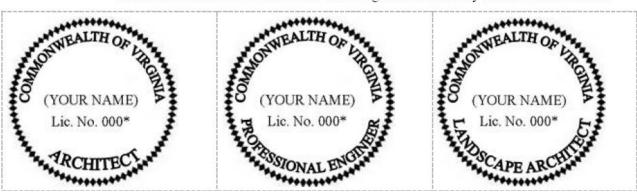
- the name of the A/E,
- the Project Title,
- the Project location,
- 4. the state Project Code,
- the Drawing / Sheet Title,
- 6. the Drawing / Sheet number,
- the seal and signature of the responsible licensed professional,
- 8. and the uniform date of the completed documents
- All plans shall have a North Arrow for orientation. All discipline building plans shall be consistent in orientation insofar as practical.

The Title sheet drawing(s) shall also have:

- the Index of Drawings,
- the Project VUSBC data,
- the Seal and Signature of the A/E Principal-In-Charge or responsible licensed professional of the project,
- and the uniform date of the completed documents.
- (A/E may also require the seal and signature of a principal of its consultants.)

B. Documents to be sealed.

- All final documents, including cover sheet of plans, plats, documents, drawings, technical reports, and specifications, and each sheet of plans or plats, or drawings prepared by the professional, or someone under his direct control and personal supervision, shall be sealed, signed, and dated by the professional. All final documents shall also bear the professional's name or firm name, address, and project name.
- 2. For projects involving multiple professional services in the same project, each professional shall seal, sign, and date the final documents for the work component that he completed or that was completed under his direct control and personal supervision. The professional responsible for the compilation of the project shall seal, sign, and date the cover sheet of the aggregate collection of final documents for the project.
- F. The original seal shall conform in detail and size to the design illustrated in this subsection and shall be two inches in diameter. The designs illustrated may not be shown to scale:



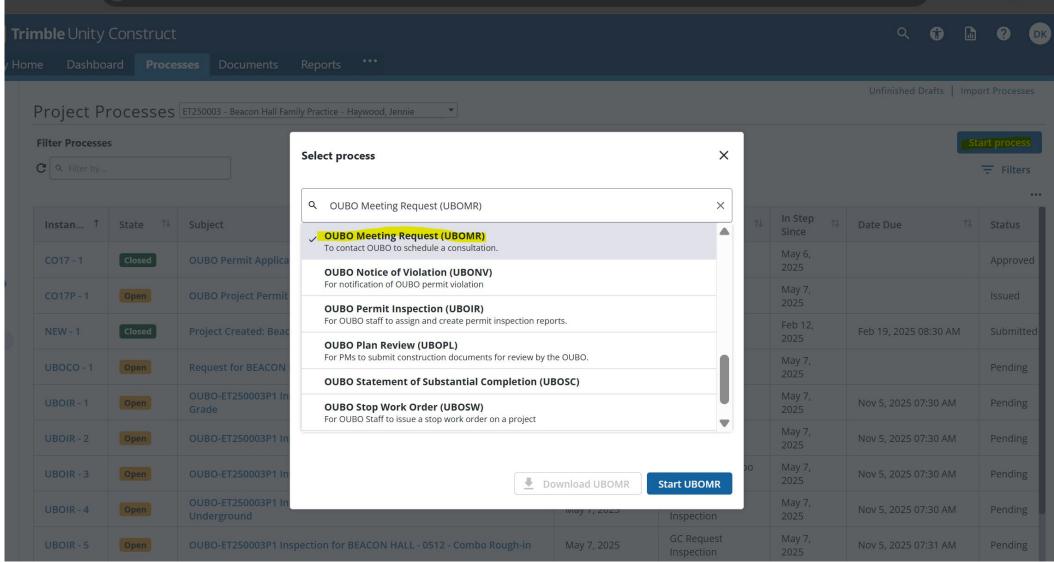
D. A regulant who has knowledge that any person may have violated or may currently be violating any of these provisions, or the provisions of Chapters 7 (§ 13.1-542.1 et seq.) and 13 (§ 13.1-1100 et seq.) of Title 13.1 or Chapters 1 (§ 54.1-100 et seq.) through 4 (§ 54.1-400 et seq.) of Title 54.1 of the Code of Virginia, shall inform the board in writing and shall cooperate in furnishing any further information or assistance that may be required by the board or any of its agents.

§ 23.1-1016: https://law.lis.virginia.gov/vacode/23.1-1016/

- E. Each covered institution may designate a full-time employee to be its own building official and may determine the suitability for occupancy of and issue certifications for building occupancy for all capital projects undertaken at such institution. Such building official shall:
- 1. Ensure that the Virginia Uniform Statewide Building Code (§ <u>36-97</u> et seq.) requirements are met for that capital project and that such project has been inspected by the State Fire Marshal or his designee prior to issuing any such certification;
- 2. Report directly and exclusively to the governing board of the institution and be subject to review by the appropriate personnel in the Department of General Services;
- 3. Be certified by the Department of Housing and Community Development to perform this function; and
- 4. Have adequate resources and staff who are certified by the Department of Housing and Community Development in accordance with § 36-137 for such purpose and who shall review plans, specifications, and documents for compliance with codes and standards and perform required inspections of the work in progress and the completed project.
- F. No individual licensed professional architect or engineer hired or contracted to perform the functions set forth in subsection E shall also perform other code-related design, construction, facilities-related project management, or facilities management functions for the institution on the same project.

2005, cc. 933, 945, § 23-38.109; 2016, c. 588.

UBOMR Process



OUBO Fees



4400 University Drive, MS 1E4, Fairfax, Virginia 22030 Phone; 703-993-6070; Email: oubo@gmu.edu; Web; oubo.gmu.edu

DATE: January 31, 2025

TO: University Community

FROM: David M. Kidd, P.E.

University Building Official

SUBJECT: OUBO FY26 GMU Funded Permit Fee Schedule Update

FY26 GMU Funded Fee Structure

PROJECTS CHARGED

- All Non-DPB projects
- Academic/Non-Academic Units & Auxiliary Enterprise
- All Maintenance Reserve Non-DPB Projects
- All Major Capital Non-DPB projects

PERMIT FEES

Fees include services for plan review and inspections.

Project Construction Cost \$	Permit Fee:		
25,001 – 200,000	2%		
Over 200,000	\$ 2,000 + 1.0%		
1 million – 3 million	\$12,000 + 0.25%		
Over 3 million	0.5%		

FEE SCHEDULE

- 11.25% at the approval of Schematic Design (if no SD submission percentage will roll to next submission)
- 18.75% at the approval of Preliminary Design

 (if a DD and a price in a present a provided in the provide
- (if no PD submission percentage will roll to next submission)
- · 45% at the approval of Working Drawings
- The remaining 25% invoiced during inspection phase.

Fee Structure Explained:

Example	Fee Calculation	Permit Fee
25,000-200,000	\$150,000 multiplied by 2%	\$3,000
Over 200,000	\$750,000 multiplied by 1.0% plus \$2000	\$9,500
Over 1 million	\$2,750,000 multiplied by .25% plus \$12,000	\$18,875
Over 3 million	\$20 million multiplied by 0.5%	\$100,000

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oubo.gmu.edu/faqs/

- How much are permit fees?
- OUBO FY26 GMU Funded Permit Fee Schedule 01.31.25
- OUBO FY26 Non-GMU Funded Permit Fee Schedule 01.31.25



4400 University Drive, MS 1E4, Fairfax, Virginia 22030 Phone: 703-993-6070; Email: oubo@gmu.edu; Web: oubo.gmu.edu

DATE: January 31, 2025

TO: University Community

FROM: Kenneth D. Walsh, Ph.D.

Executive Vice President for Strategic Initiatives and Chief of Staff

David M. Kidd, P.E. University Building Official

SUBJECT: OUBO Recharge Rates Approval

The Executive Administration and Office of University Building Official provide notice to the University Community of an updated permit fee structure. Effective immediately, the new fee will be applied to the total project cost of all construction projects costed out with fee recovery. The updated permit fee structure is needed to ensure the sustainability and efficiency of our permit processing system, with consistent procedures for an equitable and fully transparent cost recovery model.

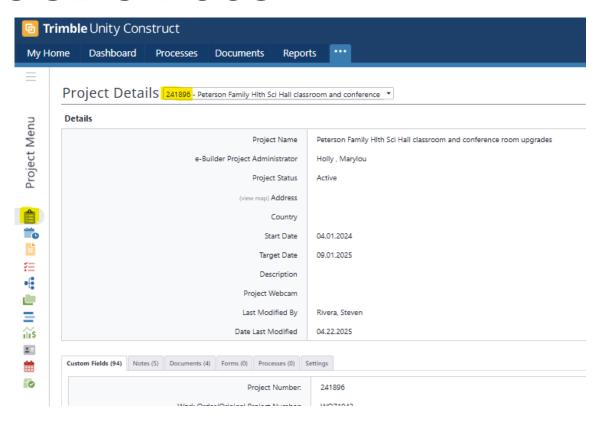
The new fee rate has been approved by the Recharge & Recovery Committee, with adjustments to reflect the current fiscal conditions and the costs associated with processing permits, performing plan reviews, and inspections. We believe this process will help streamline our operations and provide improved budget planning to the university community.

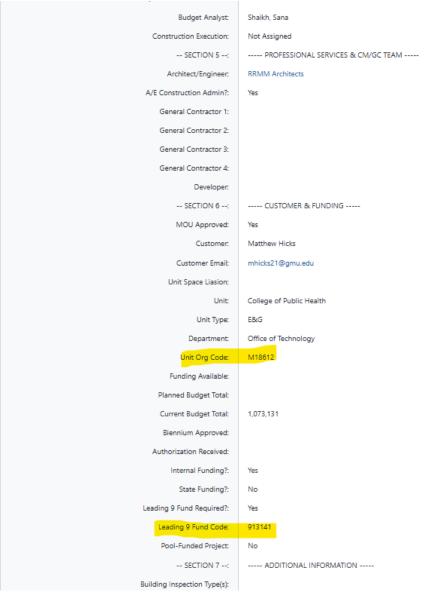
Should you have any questions or require further information, please do not hesitate to contact the Office of the University Building Official.

Thank you for your support and understanding.



OUBO Fees





OUBO Fees



Fund/Org Lookup Results

Use the bank code displayed below for making deposits. Also displayed are the associated values for the remaining fund, organization, and program.

	CODE	TITLE
Fund:	913141	Peterson Hall Class Conf AV 0306
Organization:	M18951	Capital Projects - Non-DPB
Program:	90100	Other Auxiliary Services State
Bank:	01	Treasurer of Virginia

Perform another lookup

Contact the ITS Support Center at support@gmu.edu



GEORGE MASON UNIVERSITY FACILITIES DEPARTMENT HECO-2, Authority to Initiate Capital Outlay Project

BUDGET DETAILS

Category	Description	Current Budget
10 - Construction Cost	Construction Costs	\$ 0
20 - Design & Related Services	A/E Basic Services	\$ 0
20 - Design & Related Services	A/E Additional Services	\$ 0
20 - Design & Related Services	A/E Reimbursables	\$ 0
20 - Design & Related Services	Specialty Consultants	\$ 0
20 - Design & Related Services	CM Design Phase Services	\$ 0
20 - Design & Related Services	Subsurface Investigations	\$ 0
20 - Design & Related Services	Land Survey	\$ 0
20 - Design & Related Services	Archeological Survey	\$ 0
20 - Design & Related Services	Hazmat Survey and Design	\$ 0
20 - Design & Related Services	Value Engineering Services	\$ 0
20 - Design & Related Services	Cost Estimating Services	\$ 0
20 - Design & Related Services	Other Design & Related Services	\$ 0
30 - Inspection & Testing Services	Project Inspection Services	\$ 0
30 - Inspection & Testing Services	Project Testing Services	\$ 0
40 - Project Mgmt & Other Costs	Project Management	\$ 0
40 - Project Mgmt & Other Costs	Work By Owner	\$ 0
40 - Project Mgmt & Other Costs	OUBO/AHJ Services	\$ 0
40 - Project Mgmt & Other Costs	Advertisements	\$ 0
40 - Project Mgmt & Other Costs	Printing & Reproduction	\$ 0





4400 University Drive, MS 1E4, Fairfax, Virginia 22030 Phone: 703-993-6070; Email: ouboffgmu.edn; Web: oubo.gmu.edn

STATEMENT FOR SUBSTANTIAL COMPLETION & OCCUPANCY

31	ATEMENT FOR SUBSTANTIAL COMPLETION & OCCUPANCE
Date:	
To:	Office of University Building Official George Mason University 4400 University Drive, MSN 1E4 Fairfax, Virginia 22030
PROJ	ECT TITLE:
PROJ	ECT NO:
knowle Universiare Sul	ordance with the requirements of the Contract between the University and the A/E, and the dge gained through performance of the A/E Services provided and the reports of the sity's CFR and testing entities, the undersigned hereby states that portions of this Project bstantially Complete in accordance with the requirements of the Contract Documents. Ill Scope artial Scope
Statew	blicable tests, certificates, and regulatory inspections required by the Virginia Uniform ide Building Code (USBC) for this Project, have been performed with respect to the intially Complete portions of the Project.
Verific	cation of Completion by A/E of Record
A copy certifica	of the HECO-13.1b Final Report of Structural & Special Inspections is attached to this ate.
Y	es Not Required
	of the HECO-13.3b AE Checklist for Beneficial Occupancy is attached to this certificate.
attache	of the Testing and Air Balancing (TAB) Report approved by the engineer of record is ad to this certificate or pending future submission before permit close-out.
VEES (documentation (if VEES is compliance method selected to meet High Performance gs Act
Y	es 🔲 Pending submission 🔲 Not Required
pendin	of the ASHRAE 110 Test for Fume Hoods and Verification is attached to this certificate or g future submission with the TAB report before permit close-out.

HECO 13.1-UBO

HECO-13.1ubo

HECO-13.1ubo

A/E Firm Name:
Printed Name:
Signature:
Date:
Verification of Completion by Contractor
A copy of the NFPA 13 Test Certificate Form(s) is attached to this certificate.
Yes Not Required Contractor's Material and Test Certificate for Underground Piping Yes Not Required Contractor's Material and Test Certificate for Aboveground Piping
A copy of the NFPA 72 Record of Completion Form is attached to this certificate.
Yes Pending submission Not Required
General Contractor: Printed Name: Signature: Date:
Verification of Completion by CFR and Project Manager
A copy of the Roofing Inspector's Final Report is attached to this certificate. Yes Not Required
GMU CFR: Printed Name: Signature: Date:
GMU Project Manager: Printed Name: Signature: Date:
Date.

Rev. 2/25

Plan Review

HOME / SERVICES / PLAN REVIEW

Project managers can submit drawings to the OUBO in e-Builder by starting the OUBO Plan Review (UBOPL) process.

Constructions documents will be reviewed to ensure conformance with applicable Federal, State and University Codes and Standards.

- 5 Business Days Schematic Drawings, Concept Evaluations
- 10 Business Days Preliminary Drawings
- 15 Business Days Working Drawings, Shop Drawings

Documents must conform to the following:

- Building Codes
- Facilities Design Guidelines
- HECOM

Submission Requirements:

- GMU Fire Alarm Shop Submission Requirements
- GMU Fire Sprinkler Shop Submission Requirements

Tips to Avoid Common Review Errors

- Plan Review Tips
- Administrative Plan Review Tips
- Architectural Review Tips
- Electrical Review Tips

Plan Review



4400 University Drive, MS 1E4, Fairfax, Virginia 22030 Phone: 703-993-6070; Email: oubo@gmu.edu; Web: oubo.gmu.edu

Administrative Plan Review Tips

- 1. Submit Drawings, Specifications, Bulletins, Shop Drawings, etc., using e-Builder.
- 2. When submitting construction documents, drawings and specifications they should be in separate files. Each individual bulletin or request for changes must be in individual files. Shop Drawings should be in one file.
- 3. All files to be submitted to OUBO should be consolidates by the A/E. The A/E is responsible for the documents and if you combine or change the file they send, you release the A/E of that responsibility.
- 4. Do not submit every bulletin or RFI to this office. A good rule of thumb is that if the change were a stand-alone project, would it require a building permit? If the answer is yes, submit it for review. If there is any doubt, contact OUBO Building Official for clarification.
- 5. Send responses to review comments using e-Builder.
- 6. Go to Building and Project Permits for detailed information on the process.
- 7. Use one name for your project. The name of your project when submitted to this office should include the building name, location, and description, in that order.
- 8. Ensure the work order number is active when you submit a project. Some preliminary work is required for every project before the reviews start.
- 9. Provide a 2" x 2.5: box in the same location on all sheets for the OUBO Stamp.
- 10. Small Project team reviews will be schedule when requested by the Project Manager (PM) or Facilities Maintenance (FM). See Small Project Review for more information such as project size, submittal times, etc.

Plan Review

CHAPTER 8:

PROJECT DESIGN STANDARDS AND REQUIREMENTS

SECTION 8.1 GENERAL

The Contract Documents submitted shall represent a reasonable and cost effective architectural and engineering solution for the scope of work and construction budget constraints in the A/E contract.

All elements of submittals shall be checked by the A/E and such check should be made by persons other than those preparing the materials and by professional personnel trained in that specific discipline. Errors and deficiencies shall be corrected by the A/E at no additional cost to the University.

The A/E shall perform a quality assurance review for both the technical accuracy and discipline coordination. Such items as section, detail, and note references to other sheets, major dimensions, and equipment locations shall be checked. Verify that all equipment is correctly identified the same way on all sheets and in the specifications. Existing landscape and utility conditions shall be overlaid with proposed utilities locations and site improvements. Architect to indicate all vents, penetrations, stacks, equipment, etc. on elevations.

SECTION 8.2 DRAWING STANDARDS

The following clarifies the requirements, standards, and expectations applicable to drawings prepared for bidding and construction on state projects:

8.2.1 General Requirements: The Title sheet(s) shall clearly indicate the following:

- 1. Project Title and project code
- 2. Activity or function(s) to be performed in the facility
- 3. Version (date) of USBC on which the design is based
- 4. Other major code used as a basis for design
- 5. Use Group classification(s)
- 6. Maximum USBC occupancy for each level and total for building
- 7. USBC classification of construction type
- 8. Area for each floor and entire building; volume of building
- 9. Location and Vicinity Maps;
- 10. Seals of the responsible Architect and Engineers, signed and dated
- 11. Indicate the number of beds (dormitory or hospital), fixed seats (auditorium) or parking spaces (parking deck), and other information relating to capacity of the facility as applicable.
- 12. Provide a master listing of all applicable abbreviations and symbols used in the set of drawings or provide a listing of all common abbreviations and symbols at the beginning of the drawings and provide a listing of the discipline specific abbreviations and symbols at the beginning of each discipline.
- 13. Building floor plans and drawings for all disciplines shall be oriented the same to avoid confusion and to facilitate overlaying of drawings.

Plan Review

8.2.2 Drawing Requirements & Specifications:

- **8.2.2.1** Arrangement of Drawings: Drawings shall be arranged in the following order with the discipline identifying character shown:
- G Title Sheet, Index, Code Compliance, and Life Safety Drawings
- C Plot and/or Site plans
- C Sanitary and Civil
- B Boring logs
- L Landscaping
- D Demolition
- A Architectural
- S Structural
- FA Fire Alarm
- FX Fire Suppression, Standpipes, and Accessories
- P Plumbing
- M Mechanical (heating, cooling, ventilation, etc.)
- E Electrical
- R Asbestos Abatement
- T-Telecom/AV
- AC Access Controls (Access Controls, Cameras, and Alarm Systems)
- **8.2.2.2 Sizes of Drawing Sheets:** Drawing sheet size, except in special cases approved by the University Project Manager, shall be 24" by 36" (preferred) or, alternatively, 30" by 42". Drawings shall be prepared so as to be suitable for optical scanning and for making clear, legible half-size reproductions.

STATEMENTS

ASBESTOS STATEMENT

AN ASBESTOS INSPECTION WAS PERFORMED AND NO ASBESTOS-CONTAINING MATERIALS WERE FOUND. THE ASBESTOS SURVEY/INSPECTION REPORT IS AVAILABLE TO THE CONTRACTOR(S) FOR DEMOLITION AND FOR CONSTRUCTION FOR HIS INFORMATION.

LEAD STATEMENT

A LEAD-BASED PAINT INSPECTION WAS PERFORMED AND NO LEAD-BASED PAINT WAS FOUND IN THE AREAS INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE VIRGINIA OCCUPATIONAL AND HEALTH ADMINISTRATION REGULATIONS REGARDING LEAD-BASED PAINT PROTECTION FOR WORKERS.

HIGH PERFORMANCE BUILDING ACT STATEMENT

IN ACCORD WITH THE HIGH PERFORMANCE BUILDINGS ACT, THE BUILDING IS EXEMPT FROM COMPLIANCE BECAUSE THE RENOVATED BUILDING AREA IS NOT GREATER THAN 5,000 GROSS SQUARE FEET.

QUALITY CONTROL / ASSURANCE STATEMENT

A QUALITY CONTROL / QUALITY ASSURANCE CHECK HAS BEEN MADE ON THIS PROJECT'S DOCUMENTS AND CORRECTIONS HAVE BEEN MADE. THE UNDERSIGNED STATES THAT THESE PLANS AND SPECIFICATIONS SUBMITTED FOR REVIEW ARE COMPLETE AND READY FOR BIDDINGS.

SIGNED-

Architect or Engineer of Record Name

Required Documents

Trimble Unity Construct Project Required Documents ☐ No Required Documents ☐ ---BUILDING ---☐ Elevator inspection completed and Certificate of Use ☐ Final Report of Special Inspections (HECO 13.1b) including all reports numbered sequentially. Roofing Completion Report (HECO Appendix G). Test/inspection reports submitted for spray-applied fire-resistive materials (SFRM) and/or, intumescent coatings. See VCC 1705.14 for further information (HECO 13.1b). Statement for Substantial Completion & Occupancy (HECO-13.1ubo) As-built Record Drawings (updated shop drawings reflecting actual installation) in the documentation cabinet (on-site). ☐ Documentation of Central Station service provided per NFPA 72. ✓ Final Record of Completion after system testing is witnessed by OUBO. Owner's Manual and manufacturer's instructions covering all system equipment submitted to Facilities, per NFPA 72. ☐ Prior to requesting final approval of fire alarm, detection, signaling and/or mass notification systems, provide documentation indicating system is installed in accordance with approved plans and tested in accordance with the manufacturer's instructions and code requirements, per NFPA 72. Integrated testing for suppression system releasing alarm equipment, elevator emergency operations, smoke damper operation, etc. to be pre-coordinated with all trades for final acceptance testing. Record copy of site-specific software submitted to Facilities, per NFPA 72. Testing of Integrated Fire and Life Safety Systems Record of Completion (NFPA 4 document) provided after system testing is witnessed by OUBO. Certificate for concrete masonry units used in rated wall assemblies as specified in the construction documents. Certificate for all fire protection door openings (vertical, horizontal, and/or swinging doors) in accordance with (NFPA 80 Chapter 5.2) Decorations, curtains, and drapes - flame resistance Certificate in accordance with NFPA 701 and VCC 806.4 Certificate of flame spread & smoke development ratings for wall and ceiling finishes. See VCC 803 ☐ Certificate of floor finishes. See VCC 804.3 Regional State Fire Marshal letter recommending occupancy ☐ --- FIRE SUPPRESSION ---Contractor's Material and Test Certifications for underground sprinkler piping/ standpipe systems in accordance with NFPA 13 and/or 14 Contractor's Material and Test Certifications for both above ground sprinkler piping/standpipe systems in accordance with NFPA 13 and/or 14 Contractor's installation certification for range hood fire suppression systems (wet chemical system acceptance test report in accordance with NFPA 17A) ☐ Fire Pump Field Acceptance Test Form submitted in accordance with NFPA 20. Testing of Integrated Fire and Life Safety Systems Record of Completion (NFPA 4 document) provided after system testing is witnessed by OUBO ☐--- MECHANICAL ---☐ Testing and Balancing Report per 2018 VECC C408 approved by Engineer of Record Fire Dampers, Smoke Dampers, and Combination Fire/Smoke Dampers testing report per 2016 NFPA 80 Chapter 19 Pressure Vessels and Boilers testing report per 2018 VMC 1011.1 (approved by DOLI) Pressure vessel and boiler Certificate and inspection report submitted for those not exempt from Virginia Department of Labor and Industry (VDLI) regulation ☐ --- PLUMBING ---☐ Potable Water Report Testable Backflow Device Reports per 2018 VPC 312

STATEMENT OF STRUCTURAL & SPECIAL INSPECTIONS

2021 Code Version

functions indicated.

2021 Code Version

Project Code/ Project #

(Revised 01/13/25)	11255 54			
	DATE:			
PROJECT TITLE:				
PROJECT CODE/ PROJECT #:				
A/E OF RECORD:				
The following firms and/or individuals (with address and telephone number shown) are designated to perform the Structural & Special Inspections designated below. The firm/ individual has the experience, gualifications, certifications and/or licenses required to perform the				

TESTING AND INSPECTION SERVICE

	SPECIAL INSPECTION & TEST LAB		INSPECTION MANAGER RDP OF RECORD		SMOKE CONTROL TESTING & INSPECTION
Name:	1	Name:		Name:	
Address:		Address:		Address:	
City/St/Zip		City/St/Zip		City/St/Zip	
Phone:	F	Phone:		Phone:	

2021 VUSBC SPECIAL INSPECTIONS HECO-6b

		REQ'D		INSPECTION / TEST BY				
MATERIAL/ ACTIVITY	TYPE OF INSPECTION (RDP add lines as needed to identify other required items)	THIS PROJ? (Yes)	REFERENCE	SPECIAL INSPECTOR/ TEST LAB	RDP OF RECORD	OTHER:	OTHER:	OTHER:
CONTRATOR RESPONSIBILITY (see note 8) Contractor								
Structure	Special inspections for Wind Resistance and/or Seismic resistance.		VCC 1704.6	Х		8		
STRUCTURAL OBSERVATIONS (see note 7)								
Structure	Structural observations for structures as identified by the structural observer in a written statement.		VCC 1704.6		X (C/P)			
FOUNDATIONS								

Statement of Special Inspections

https://oubo.gmu.edu/special-inspections/

Special Inspections

HOME / SPECIAL INSPECTIONS

HFCO-6a

- Special Inspection Guidelines and Procedures
- HECO-6a6b Statement of USBC Special Inspections & 2021 USBC Special Inspections
- HECO-6c Statement of Contractor's Responsibility
- HECO-13.1b Final Report Of Structural And Special Inspections
- HECO-13.1ubo Statement for Substantial Completion & Occupancy



PROJECT PERMIT

#OUBO-231749P1

Issued: March 06, 2025

PROJECT	231749
Project Name:	Inst Digit Innov (FUTURE) FUSE Catering Kitchen
Project Type:	Non-Capital
Scope of Work:	Fit out of Catering Pantry
Est'd Construction Start:	January 27, 2025
Mason Project Manager:	Pinskey, Cathy
Designer:	Cole & Denny Architects
General Contractor:	The Matthews Group (TMG Construction) Dory Saliba, 571-439-1060, 2705028766
Electrical Contractor:	RMS ELECTRICAL SERVICES INC., Bryan Beebe, (240) 270-6926, 2705142891
Mechanical Contractor:	INTEGRITY HVAC SERVICES LLC., Bern Caudill, (571) 393-5867, 2705165328
Plumbing Contractor:	L&B UNIVERSAL INC., Marvin Guevara, (571) 215-2642, 2705118250
Fire Alarm Contractor:	RMS ELECTRICAL SERVICES INC., Bryan Beebe, (240) 270-6926, 2705142891
Fire Suppression Contractor:	BUILDERS FIRE SOLUTIONS LLC., Chris Howdyshell, (540) 878-1379, 2705127482
BUILDING	NEW CONSTRUCTION
Campus:	Arlington
Room/Area	1320
Occupancy & Use:	Business Non-separated (prep kitchen w/o cooking)
Occupant Load:	49
Building Code Edition:	USBC 2021
Accessibility Standards:	2017 ANSI
Construction Type:	<u>IB</u>
Building Height (feet):	130

Code Inspections will be performed by the Office of University Building Official (OUBO).

DISCIPLINES	Building, Electrical, Fire Alarm, Fire Suppression, Mechanical, Plumbing				
INSPECTIONS REQUIRED	Underslab, Rough-in, Pressure Test, Final, Sprinkler Hydro				
REQUIRED DOCUMENTS	Final Record of Completion after system testing is witnessed by OUBO., Contractor's Material and Test Certifications for both above ground sprinkler piping				
	Fire Alarm Shop Drawings Required Yes				
	Fire Suppression Shop Drawings Required Yes				

APPROVED

David M. Kidd, P.E., CBO University Building Official

Permits



FIRE SUPPRESSION PERMIT

#OUBO-18529-000S1

Issued: July 18, 2024

PROJECT	18529-0	00						
Project Name:		Aquatic Fitness Center (AFC) Renovations						
Project Type:		Capital						
Scope of Work:		Roofing, HVAC, Fire Alarm, Elevator, Pool Tile, Painting, I	ighting replac	ement				
Est'd Construction	on Start:	May 26, 2023						
Mason Project M	lanager:	McKenzie, Steven						
Designer:		RRMM Architects, P.C.						
General Contrac	ctor:	Consigli Construction Co., Inc. Michael Schindler 202.400.1540, 2705159303						
Fire Suppression	n Contract'i	:CFP International, Shane Leatherman, 2705168403						
BUILDING	AQUAT	C CENTER - 0031						
Campus:		Fairfax						
Room/Area		exterior and interior						
Occupancy & Us	se:							
Occupant Load:		2333						
Building Code E	dition:	VUSBC 2018 ed						
NFPA Standard	Edition:							
Accessibility Sta	ndards:	2010 ADA Standards for Accessible Design						
Construction Typ	oe:	IIA Gro	ss Area (gsf):	87352				
Building Height ((feet):	40.0 Num	ber of Stories:	2				
Fire Suppression	n:	Seismic Des	sign Category:	В				
Fire Detection &	Alarm:							

Code Inspections will be performed by the Office of University Building Official (OUBO).

FIRE SUPPRESSION INSPECTIONS REQUIRED	Rough-in, Sprinkler Hydro (partial), Final
REQUIRED DOCUMENTS	
FIRE ALARM SHOP DRAWINGS	Shop Submissions are required to be approved by the A/E prior to submission to OUBO, per GMU HECO Manual section 8.19. Shop Submissions must be approved by OUBO prior to requesting any inspections.

APPROVED

David M. Kidd, P.E., CBO University Building Official



Inspections

The Contractor must:

- a. verify the work in place is complete and ready to be concealed;
- ensure Special Inspections, as specified in Chapter 17, have been completed;
- c. make available onsite parking for the OUBO;
- d. ensure all permits are posted at the worksite;
- e. have the OUBO stamped Construction Documents (CDs) available for review;
- f. ensure all changes are approved and posted to the CDs;
- g. provide equipment such as scaffolding, ladder, test instruments, lighting, etc. necessary to access the work and conduct or witness the inspection.



4400 University Drive, MS 1E4, Fairfax, Virginia 22030 Phone: 703-993-6070; Email: oubo@gmu.edu; Web: oubo.gmu.edu

Procedure Guidance

DATE: January 18, 2024

TO: Alex Iszard

AVP, Planning, Design & Construction

FROM: David M. Kidd, P.E.

University Building Official

SUBJECT: Inspection Procedures

2021 Virginia Uniform Statewide Building Code (USBC)

PURPOSE

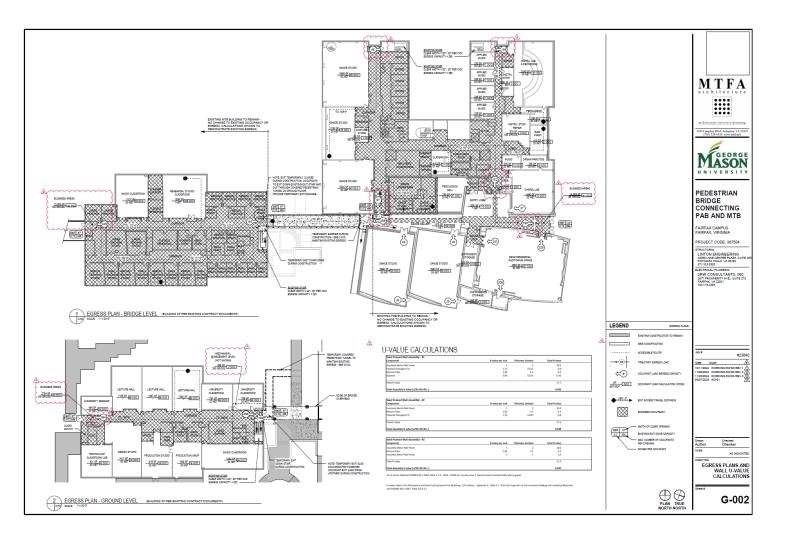
This document provides a brief overview of requirements for OUBO inspections. For additional details and directions please refer to the OUBO <u>Inspections</u> webpage.

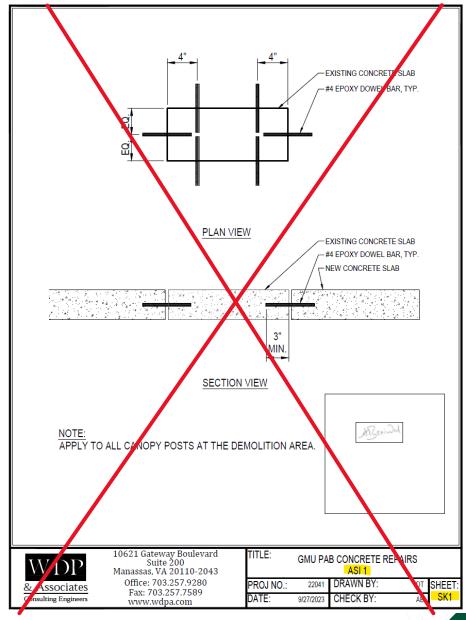
In accordance with the USBC, all inspections and tests shall be performed and approved by the OUBO before the work in place is concealed. Any building or structure may be inspected at any time before completion and shall not be deemed in compliance until approved by the OUBO.

PROCESS

 USBC Section 113.3 requires the following minimum inspections shall be conducted by the building official when applicable to the construction or permit:

Architect Supplemental Instructions





Close-out Documents

Construction Type:	IIB
Building Height (feet):	50

Code Inspections will be performed by the Office of University Building Official (OUBO).

DISCIPLINES	Building, Electrical, Fire Alarm, Fire Suppression, Mechanical, Plumbing
INSPECTIONS REQUIRED	Underground, Underslab, Rough-in, Pressure Test, Insulation, Final, Foundation, Slab on Grade, Certificate of Occupancy, Permanent Service, Fire Line Flush, Fire Line Hydro, Fire Line Visual, Sprinkler Hydro, Sprinkler Visual Progress, Dry or Preaction Pipe Trip Test
REQUIRED DOCUMENTS	Final Report of Special Inspections (HECO 13.1b) including all reports numbered sequentially., As-built Record Drawings (updated shop drawings reflecting actual installation) in the documentation cabinet (on-site)., Documentation of Central Station service provided per NFPA 72., Final Record of Completion after system testing is witnessed by OUBO., Owner's Manual and manufacturer's instructions covering all system equipment submitted to Facilities, per NFPA 72., Prior to requesting final approval of fire alarm, detection, signaling and/or mass notification systems, provide documentation indicating system is installed in accordance with approved plans and tested in accordance with the manufacturer's instructions and code requirements, per NFPA 72. Integrated testing for suppression system releasing alarm equipment, elevator emergency operations, smoke damper operation, etc. to be pre-coordinated with all trades for final acceptance testing., Record copy of site-specific software submitted to Facilities, per NFPA 72., Certificate for concrete masonry units used in rated wall assemblies as specified in the construction documents., Certificate for all fire protection door openings (vertical, horizontal, and/or swinging doors) in accordance with (NFPA 80 Chapter 5.2), Decorations, curtains, and drapes -flame resistance Certificate in accordance with NFPA 701 and VCC 806.4, Certificate of flame spread & smoke development ratings for wall and ceiling finishes. See VCC 803, Certificate of floor finishes. See VCC 804.3, Regional State Fire Marshal letter recommending occupancy, Contractor's Material and Test Certifications for underground sprinkler piping/ standpipe systems in accordance with NFPA 13 and/or 14, Contractor's installation certification for range hood fire suppression systems (wet chemical system acceptance test report in accordance with NFPA 17A), Fire Pump Field Acceptance Test Form submitted in accordance with NFPA 20., Testing and Balancing Report per 2018 VECC C408 approved by Engineer of Record, Pota

Special Inspections Required.

APPROVED:

David M. Kidd, P.E., CBO University Building Official

Code Analysis Sheet

3 MEANS OF EGRESS

VEBC VECC

VPC										
VMC					STAIRWAYS (PER FLOOR)				
VFGC					EGRESS @ 1ST FL OR LSB	0				
NFPA-70 (NEC)					ISECTION 1005.3 IBC 2010					
ANSI-A117.1					PANIC HARDWARE ON EXIT D	OORS? YES \ N	GECTION 1008.1.9 IBC.	2010)		
ADA					STAIRWAYS (SECTION 16					
GMU HECOM					MINIMUM CLEAR WIDTH SHO	WN ON:	(EACH STAIR)	WELL)		
ETC					EGRESS WIDTHS ARE SHOWN					
E10					ACCESSIBLE AREAS OF REFU		ONS SHOWN ON:			
					EXIT SIGNS/EGRESS II	LUMINATION (SECTI		8)		
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A COPY OF THESE APPROVED CONSTRUCTION PLANS MUST BE KEPF AT PROJECT SITE FOR

BUILDING INFORMATION ASBESTOS DISCLOSURE STATEMENT
AN ASBESTOS INSPECTION WAS NOT PERFORMED BECAUSE
ALL PORTIONS OF THE EXISTING BUILDING THAT MAY BE AFFECTED BY THE WORK WERE ORIGINALLY CONSTRUCTED AFTER JANUARY 1, 1985. LEAD DISCLOSURE STATEMENT.
AN INSPECTION TO IDENTIFY LEAD CONTAINING OR COATED BUILDING COMPONENTS HAS NOT BEEN CONDUCTED JANUARY 1, 1985 AND THE OWNER HAS NO KNOWLEDGE OF LEAD CONTAINING OR COATED BUILDING COMPONENTS IN THE BUILDING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL VIRGINIA OCCUPATIONAL SAFETY AND HEALTH (VOSH) REGULATIONS AS THEY PERTAIN TO EMPLOYEE EXPOSURES TO LEAD. ALL LEAD AND LEAD-COATED BUILDING COMPONENTS SHALL BE RECYCLED TO THE EXTENT POSSIBLE. VIRGINIA ENERGY CONSERVATION
CODE COMPLIANCE STATEMENT
IN ACCORD WITH THE VIRGINIA ENERGY CONSERVATION CODE (VECC), THE BUILDING SHALL COMPLY WITH SECTIONS C402 THROUGH C405. SECTION C406 ADDITIONAL MORE EFFICIENT HVAC PERFORMANCE. HIGH PERFORMANCE BUILDING ACT IN ACCORDANCE WITH THE HIGH PERFORMANCE BUILDING ACT, THE PROJECT IS EXEMPT FROM COMPLIANCE BECAUSE SQUARE FEET. 2500 PSF DELEGATED DESIGN SCOPES The following closed systems are identified as including delegated design MOCKUPS: For temporary structural supports of mockups not attached to building structure UNBONDED POST-TENSIONED CONCRETE: For post-tensioning system PRECAST ARCHITECTURAL CONCRETE: For architectural precast concrete to comply with PRICAST ARCHITECTURAL CONNERTE For enhaltent precast concrete to comply with specified performance requirements and design orients EXTERIOR STONE CLADORNE EXTERIOR STONE CLADORNE EXTERIOR STONE CLADORNE METILA PARKENATIONS For states, ranking and guards, precast terrazzo treads, epoxy-resin-filled METILA PARK TARRIS For states, rankings and guards, precast terrazzo treads, epoxy-resin-filled METILA PARK TARRIS For states, rankings and guards, precast terrazzo treads, epoxy-resin-filled METILA PARK TARRIS FOR states. treads
DECORATIVE METAL RAILINGS: For installed products to comply with performance

LIELLOWN I'VE net it also design offents requirements and design offents GLAZED DECORATIVE METAL RAILINGS: For installed products to comply with performance requirements and design offents INTERIOR GLAZING: For Backpainted Glass BPG-1 thickness to meet size & performance requirements and resign of the complete o

requirements

FORMED METAL WALL PANELS. For formed metal wall and sofft panels support system

METAL COMPOSITE MATERIAL WALL PANELS. For MCM to comply with performance
requirements and disease colories, and for related support system

LIRCAM METAL SOCRET PANELS. For installed products to comply with performance

requirements and design criteria ROOF ACCESSORIES. For equipment supports to comply with performance requirements and

design criteria

OVERHEAD COILING DOORS: For installed products to comply with performance

requirements and design oritera
UNITIZED & SITE-BUILT GLAZED ALUMINUM CURTAINWALLS: For systems to comply with performance requirements and design criteria UNITIZED WINDOW WALLS: For glazed window walls and anchorage to precest panels

and obegin crisms.
TOILET ACCESSORIES: For grab bar installation to meet specified performance force/loads
FAÇADE ACCESS EQUIPMENT: For equipment to comply with design loads and stability /

Profession of the SPERMLER SYSTEMS. For eystem to comply with performance requirements and design orders HANGERS AND SUPPORTS FOR HYAC PPING AND ECUIPMENT: topsece hargers to comply with performance requirements and design orders HANGERS AND FOR the assemble, supports, exports, records no, building attachment and HANGERS. PROFESSION or assemble, supports, exports, records no, building attachment and HANGERS. PROFESSION or assemble, supports, exports, records no, building attachment and HANGERS. PROFESSION or assemble, supports, exports, records no, building attachment and HANGERS. PROFESSION or assemble, supports support, exports, records no, building attachment and HANGERS. PROFESSION or assemble supports support assemble support assemble supports and profession or assemble support or assemble support or assemble support or profession or assemble support or profession or support or profession o

penetrations IDENTIFICATION FOR ELECTRICAL SYSTEMS: For arc-flash hazard study IDENTIFICATION FOR CELEVISION OF STATEMENT OF a declarate study SACRET_GROUND STUDIES. For electrical system short-celled study COORDINATION STUDIES. For electrical system coordination study ARC-FLASH HAZARD ANALYSIS. For electrical system conclaims for such MCDULAR LIGHTING CRITICAL STATEMENT AND ANALYSIS. For electrical system conclaims hazard study MCDULAR LIGHTING CRITICAL STATEMENT AND ANALYSIS. FOR Electrical system and LIGHTINNA PROTECTION FOR STREAM.

A/E INFORMATION

2-inch square OUBO Stamp

PAGE NUMBERS

Sheet Block



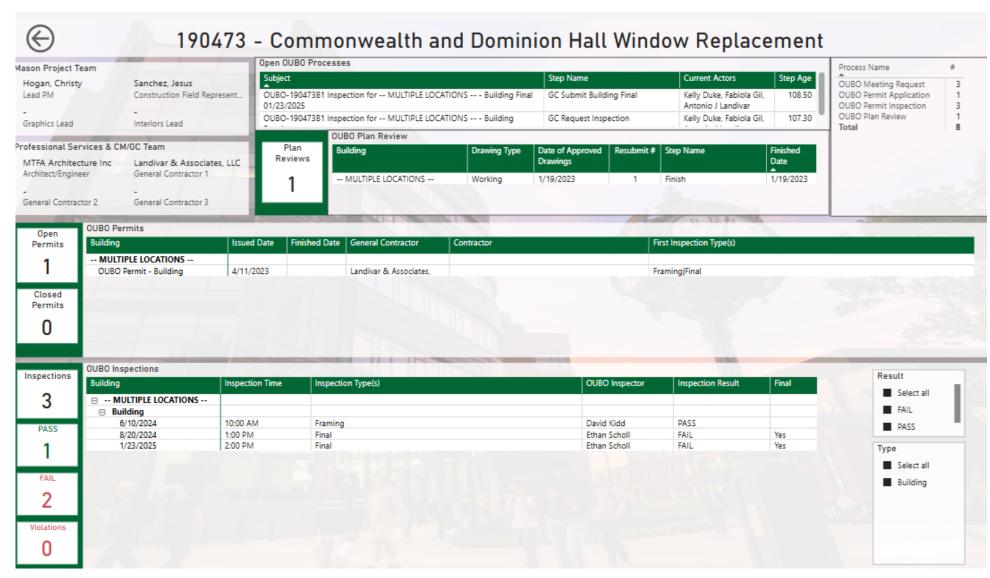
Plan Review Checklist

Instructions. Complete the project-related information below. For each technical- or code-related item on the following pages, signify its compliance or applicability. The items listed in this plan review record are the most typical for most projects and do not constitute all design elements checked by peer reviewers or county staff.						
Project Information						
Project Name:						
Street Address:						
Parcel ID:Permit Number:						
Check all that apply:						
New Tenant Layout Tenant Improvement						
Other:						
Designer Information						
Name:						
License No.:Telephone:						
Email:						
Peer Reviewer Information (if applicable)						
Name:						
PR No.:Telephone:						
Email:						
Code Information						
Check all that apply:						
☐Virginia Existing Building Code (existing commercial, multi-family and Group R-3 residential construction)						
Level 1 Alteration Repair Level 2 Alteration Change of Occupancy						
Moved Building Historic Building Addition						
Page 1 of 4 2021 Interior Alterations Plan Review Record Version 21.0, updated July 202						

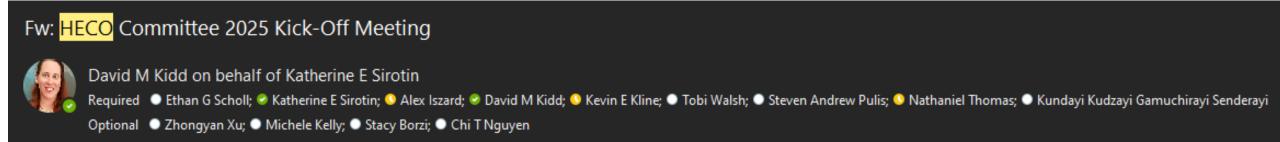
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А. Оссир	ancy and Buil	ding Inf	ormation					
Occupancy/	Group:							
Propose	d Group(s):	E	xisting Group	(s):	(V	CC Chapter	3)	
Change	of Occupancy: 🗆							
Mixed use a	nd occupancy (ch	eck all tha	t apply): (VCC	Section 50	8)			
	n-separated mixe		с аррлу, (тес	50000000		ted mixed us	se	
□Inc	idental use areas	(meets all	incidental use	e provision	s □Accesso	orv occupan	icies	
	onstruction:	•	CC Section 60	•			(VCC Section 504.4)
	e Building Code:	•		•				'
Building Info	_							
Critical St		□Yes	□No					
Sprinklere	ed:	□Full	□Partial	□None				
Monitore	d:	□Yes	□No					
Unlimited	l Area Building:	□Yes	□No					
High Rise Atrium:	:	□Yes □Yes	□No □No					
Atrium.		□ res						
Administra	tive Requirement	5						
mplies N/A	Building Plan Rev	iou Covor	choot is attac	had ar ince	rnorated in	the building	a drawings	
	Clear scope of w				-	the bulluling	g drawings.	
	Statement of Spe		•	•				
	Drawings referen							
	ICC-ES evaluation							-4- \
18							alls, office buildings, Sheet per VEBC Sect	
	103.9 and 601.2.		on the drawn	ngs and an	z ramiax co	unity cover s	sheet per Vibe seet	10113
	Location of alter			٠.	r VEBC Secti	on 601.2.		
	Repairs are iden		•		o mothod i	dontified on	the plane /if	
	Building related proffer or condition and compliance method identified on the plans (If applicable)							
	Name, address,	and occupa	ation of the p	erson respo	onsible for t	he design is	noted on the	
	•						ed electronic signatu · · ·	re
Λ	and date of an a	rcnitect or	engineer regi	stered in ti	ne common	wealth of vi	irginia.	
A. Acces: mplies N/A	SIDIIILY							
	Accessible route	is provide	d per VEBC Se	ction 404 a	and ICC/ANS	SI A117.1 Sec	ction 402.	
	Door approache	comply w	ith required o	learances	per ICC/ANS	SI A117.1 Sec	ction 404.	
	Ramp slopes are		-					
	Accessible seatir	ig in assem	nbly areas is p	rovided pe	r VCC 1108	2 and ICC/AI	NSI A117.1 Section 8	302.
Page 2 of 4			2	021 Interior Al	terations Plan R	eview Record Vo	ersion 21.0, updated July 2	024



Project Summary Report



HECO 2025 Update



- The committee seeks and welcomes all support for this collaborative effort to maintain an updated version of this important document.
- Contact anyone on the list above with ideas or request.



The International Code Council's 45th annual Building Safety Month kicked off the first week of May. The month-long educational campaign, which raises awareness about the importance of building codes in establishing and ensuring the safety of the built environment.

THRIVING WITH CHANGE

In support of Building Safety Month George Mason's Office of University Building Official is hosting the following online trainings from 11:30 a.m. to 12:15 p.m.

Wednesday, May 14, 2025 - OUBO Basics

The session will provide an overview of the HECO form updates, code data, sheet blocks, ASI's, DPOR regulations and fee schedule.

Wednesday, May 21, 2025 - Plan Review & Inspections

The session will focus on electrical, mechanical and plumbing codes, inspection checklist, lessons learned, website overview and closeout documents.

Wednesday, May 28,2025 - Plan Review & Inspections

The session will focus on building and fire protection codes, inspection checklist, lessons learned, website overview and closeout documents.

> Please register to receive the training link at https://oubo.gmu.edu/resources/









