

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.

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

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, lessons learned

Present:

Submittal process for fire alarm & suppression, DPOR, HECO-6 form, HECO-13.1UBO, Plan reviews, permits, inspections, close out documents

Future:

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

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Fire & Life Safety Discussion Points

- Fire Resistance Rated (FRR) Construction
 - Fire Dampers
 - Firestop
- Shop Drawings Submission Requirements
- Inspections
 - Fire Alarm Elevator Integration
 - Fire Sprinkler Rough-in & Hydro
- Close-out Documents
 - Fire Alarm
 - Fire Sprinkler
 - Hood Fire Suppression
 - Clean Agent Fire Suppression

OUBO Resources - FP/LS

Office of University Building Official – Office of the University Building Official (gmu.edu)

Resources

HOME / RESOURCES

OUBO Procedures

- OUBO FY26 Permit Fee Schedule Updates
- 2021 USBC Adoption
- Office of the University Building Official Charter
- Procedure for Engineering Judgements
- Construction Permit Procedures
- <u>De-Rating Procedure for Fire Rated Assemblies</u>
- GMU Fire Alarm Shop Submission Requirements
- GMU Fire Sprinkler Shop Submission Requirements
- Building Permit Posting Procedure
- **Special Inspection**
- Inspection Procedures
- Roofing System Permitting and Inspection







OUBO Resources - FP/LS

Office of University Building Official - Office of the University Building Official (gmu.edu)



Training

HOME / TRAINING

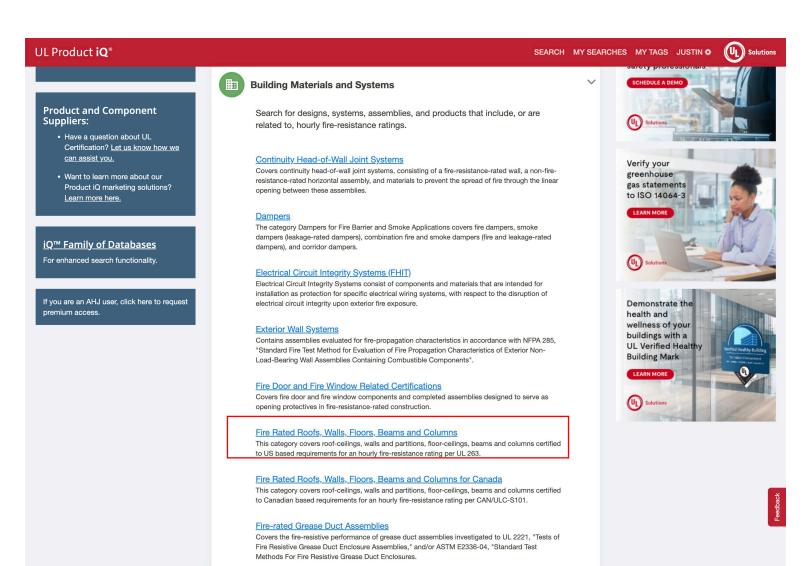
3 M Construction Training

• 3 M Construction Training

Fire Protection Training

- <u>Fire Protection Part I</u> <u>Recording Link</u>
- Fire Protection Part II
 Recording Link

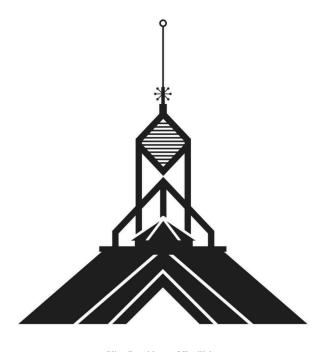
Fire Resistant-Rated (FRR) Construction



- VCC identifies various FRR construction elements – Ch. 7
 - Structural Members (704)
 - Exterior Walls (705)
 - Fire Walls (706)
 - Fire Barriers (707)
 - Fire Partitions (708)
 - Smoke Barriers (709)
 - Smoke Partitions (710)
 - Floor/Roof Horizontal Assemblies (711)
- VCC 703.2.2 Outlines Methods to Achieve Compliance
 - Method 1 UL (or equivalent)
 - Method 2 Section 721 Assemblies in IBC/VCC
 - Method 3 Calculations (722)
 - Method 4 Engineering analysis/engineering judgment
 - Method 5 Equivalency (e.g. PBD, sprinkler equivalency, etc.)

Fire Safety Review Tips

GEORGE MASON UNIVERSITY
Higher Education Capital Outlay Manual
2023



Vice President of Facilities

1. Table of Fire Resistance Ratings: HECOM requires that a table of all fire resistance ratings be provided. This assists reviewers and, more importantly, contractors and inspectors in ensuring fire resistance assemblies are installed where required and in accordance with the design.

ELEMENT	RATING	DESIGN REFERENCE	DETAIL LOCATION
Columns	2 hours	UL# XXXX	3/S-2
Floor-Ceiling Assembly	2 hours	IBC Table XXX, Item X.x	4/S-7
Elevator Shaft	2 hours	UL# XXXX	Partition Type 2/A-4.2
Top of Elevator Shaft	2 hours	UL# XXXX	5/S-7
Use Group Separation	1 hour	IBC Table XXX, Item X.x	Partition Type 4/A-4.2

6. Through-Penetration Firestop Systems: When penetrating a fire resistance-rated assembly a fire rated penetration assembly is required. When penetrating a floor assembly, the through penetration assembly generally requires both F-ratings and T-ratings (limited exception). A table of typical listed assembly(ies) for the project is required to be provided with construction drawings with deferred submittal required in the specifications. A non-capital projects can provide typical firestop assembly details with further detail provided in specification and required deferred submission. (See USBC Chapter 7 for requirements and for exceptions). Engineering Judgments should be limited and be identified as early in the project as possible to eliminate issues near the completion of the project. Refer to specific guidelines for submission of Engineering Judgments (EJs).

Firestopping

Test standards for firestopsystems

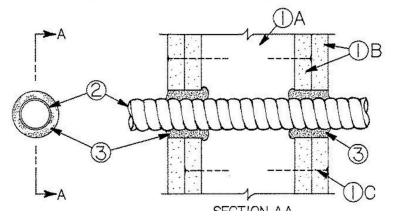
Category	ASTM Standard	UL
Through penetrations	E814	1479
Cable Tray	E1725	1724
Joints	E1966	2079
Perimeter joints	E2307	
Continuity of wall joints	E2837	
Grease ducts	E2336	
Air ventilation ducts	E2816	
Assemblies	E119	263
High intensity – hydrocarbon pool fires	E1529	1709

F Rating — 1 and 2 Hr (See Item 3)

T Ratings — 0, 3/4 and 2 Hr (See Item 2)

L Rating at ambient — less than 1 CFM per sq ft. (See Item 3)

L Rating at 400 F — less than 1 CFM per sq ft. (See Item 3)



Fire Dampers

[BF] 607.2.3 Static dampers.

Fire dampers and ceiling radiation dampers that are listed for use in static systems shall be installed only in heating, ventilation and air-conditioning systems that are automatically shut down in the event of a fire.

[BF] 607.3.1 Damper testing.

Dampers shall be listed and labeled in accordance with the standards in this section. Fire dampers shall comply with the requirements of UL 555. Smoke dampers shall comply with the requirements of UL 555S. Combination fire/smoke dampers shall comply with the requirements of both UL 555 and UL 555S. Ceiling radiation dampers shall comply with the requirements of UL 555C or shall be tested as part of a fire-resistance-rated floor/ceiling or roof/ceiling assembly in accordance with ASTM E119 or UL 263. Corridor dampers shall comply with requirements of both UL 555 and UL 555S. Corridor dampers shall demonstrate acceptable closure performance when subjected to 150 feet per minute (0.76 m/s) velocity across the face of the damper using the UL 555 fire exposure test.

[BF] 607.6.2.1.1 Dynamic systems.

Ceiling radiation dampers installed in heating, ventilation and air-conditioning systems designed to operate with fans on during a fire shall be labeled for use in dynamic systems.

[BF] 607.6.2.1.2 Static systems.

Static ceiling radiation dampers shall be installed only in systems that are not designed to operate during a fire.



OUBO Resources - FP/LS

Office of University Building Official - Office of the University Building Official (gmu.edu)



Training

HOME / TRAINING

3 M Construction Training

• 3 M Construction Training

Fire Protection Training

- <u>Fire Protection Part I</u> <u>Recording Link</u>
- <u>Fire Protection Part II</u> Recording Link

Fire Protection Shop Drawings

Plan Review

HOME / SERVICES / PLAN REVIEW

Project managers can submit drawings to the OUBO in <u>e-Builder</u> 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:

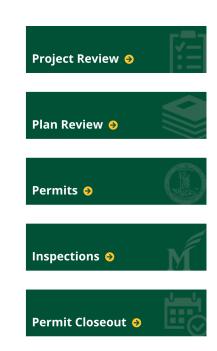
- Building Codes
- Facilities Design Guidelines
- HECOM

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



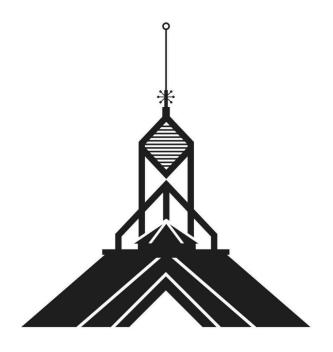


Repetitive Submission Issues

- Project Number Not Listed
- Not approved by A/E of Record
- NICET "Stamp"
- Calculations not Submitted/Provided
- Fire Sprinkler hangers not provided (13 Requirement)
- Fire Alarm wiring device-todevice (72 Requirement)

GEORGE MASON UNIVERSITY

Higher Education Capital Outlay Manual 2023



Vice President of Facilities

SECTION 8.19 FIRE PROTECTION SHOP DRAWINGS:

Refer to chapters 7 and 8 of this manual for the OUBO submission guidelines for additional information related to various fire protection systems. Fire protection shop drawings and product submission data shall be reviewed and approved by the A/E of record. When the submission, with any added notations is satisfactory to the A/E, the A/E shall provide a "sealed" statement, attached to the reviewed shop drawings indicating that the fire protection shop drawings (working plans, product data and calculations as applicable) satisfy the requirements of the project contract documents and the code (cite the applicable NFPA and USBC Sections).

Code of Virginia – DPOR Regulations

- "§ 54.1-402. Further exemptions from license requirements for architects, professional engineers, and land surveyors.
- A. No license as an architect or professional engineer shall be required pursuant to § 54.-406 for persons who prepare plans, specifications, documents and designs for the following, provided any such plans, specifications, documents or designs bear the name and address of the author and his occupation:
- ... 8. The preparation of shop drawings, field drawings and specifications for components by a contractor who will supervise the installation and where the shop drawings and specifications (i) will be reviewed by the licensed professional engineer or architect responsible for the project or (ii) are otherwise exempted..."

Inspection Clarifications

Fire Alarm – Elevator Integration Considerations

- Coordination of NFPA 13, NFPA 72 and ASME A17.1
 - Is sprinkler in hoistway necessary (NFPA 13)
 - A/E (Fire Protection) to coordinate working drawings
 - Shop Drawings for each trade need to follow working drawings
 - Determine Recall Floors Primary/Alternate (Approved by AHJ)
 - Heat sensors for Phase II lower temperature & lower RTI than sprinkler
- Phase I Elevator Recall (Elevator "lobby" & MR SDs)
 - Sprinklered hoistway SD required in hoistway @ sprinkler
 - SD must be specifically intended for dirty environment
- Phase II Shunt Trip of Elevator
 - Option 1 Heat sensors (Hoistway & MR HDs) within 24" of sprinkler
 - Option 2 Sprinkler Flow/Pressure Switch (0-time delay switch)

Inspection Clarifications

Fire Sprinkler – Progress Inspection

- Hydrostatic Testing
- Rough-in Sprinkler

- Sprinklers shall be installed under fixed obstruction over 4 ft. in width such as ducts, decks, open grate flooring, cutting tables, and overhead doors. (13:8.5.5.2).
- Hydraulic plates (cale plates) shall identify location of design area(s), discharge densities
 over design area(s), required flow & residual pressure demand at base of riser, occupancy
 or commodity classification & max permitted storage height, hose stream demand in
 addition to sprinkler demand. (13:25.5.1)

SYSTEM OPERATIONAL TESTS

- Prior to the underground system being connected, perform a flushing of all
 underground piping including all lead-ins, connections hydrants, etc. With minimum
 flow rates required by NFPA 13. (13:10.10.2)
- Hydrostatic test: All piping and attached accessories subjected to system working
 pressure shall be hydrostatically tested at 200 psi and shall maintain that pressure
 without loss for 2 hours. (25.2.1.1)
 - Test pressure read from gauge located at the low elevation point of the system or portion being tested. (25.2.1.8)
 - Record Initial Pressure. Return in 2 hours; determine if there is any gauge pressure loss or visual leakage and record final pressure.
 - Modifications affecting more than 20 sprinklers will require isolation and hydrostatic testing. (20 or fewer sprinklers shall not require hydrostatic testing in excess of system working pressure – 13:25.2.1.4.1)
- Main drain test: Main drain must be opened until system pressure stabilizes. This will be tested and static and residual pressures will be recorded during final acceptance.
- Waterflow test: Verify that flowing water will alert the fire department and alarm company by opening the inspectors test valve at the end of the system or the alarm valve at the system riser. (13:25.2.3)
- Backflow Prevention Assembly: Forward-flow testing of backflow preventer at calculated flow rate to verify proper operation. (13:25.2.5)
- Dry Pipe/Double Interlock Preaction System 24-hour Air Test: System is tested at 40
 psi not to lose more than 1.5 psi over the 24-hour period. Modifications of existing
 sprinklers allowed to be tested for 2-hour duration with up to 3 psi loss. (13:25.2.2.1)
- Dry Pipe Trip Test: A working test of dry pipe valve to determine time to trip valve and deliver water to inspector's test connection (most remote point on dry pipe system).
 Must deliver within 60 seconds unless equipped with quick-operating device or other exceptions. (13:25.2.3.2)
- All test results to be recorded on NFPA 13 test certificate forms Contractor's Material and Test Certificate for Underground Piping and Contractor's Material and Test Certificate for Aboveground Piping, (13:10.10.1; 25.1)

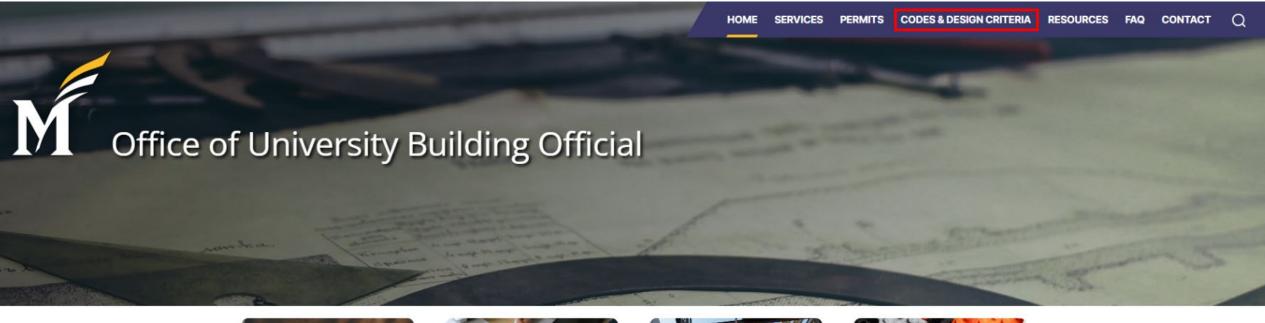
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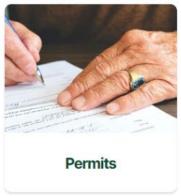
Page 2 of 2

Close-out Documents

- Fire Alarm NFPA 72 Record of Completion & Supplementary Forms as Needed
- Fire Sprinkler NFPA 13 Contractor's Material & Test Certificates (U.G. & AG)
- Hood Fire Suppression NFPA 17A Wet Chemical System Acceptance Test Report
- Clean Agent Fire Suppression NFPA 2001 Clean Agent System Acceptance Test Report

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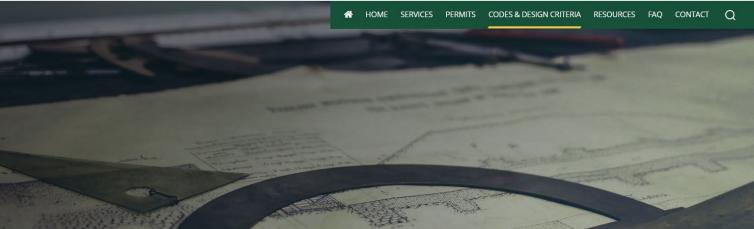






Office of University Building Official

3 George Mason University APPLY GIVE MYMASON PATRIOTWEB PEOPLEFINDER ATHLETICS NEWS CALENDAR LIBRARY GRADUATION HOME SERVICES PERMITS CODES & DESIGN CRITERIA RESOURCES FAQ CONTACT



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 Virginia Department of Housing and Community Development and reference the International Codes as published by the International Code Council. 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 Chapter 16 of the Virginia Constructions Code, 2021, and Chapter 3 of the 2021 Virginia Residential Code.

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

HECO FORMS

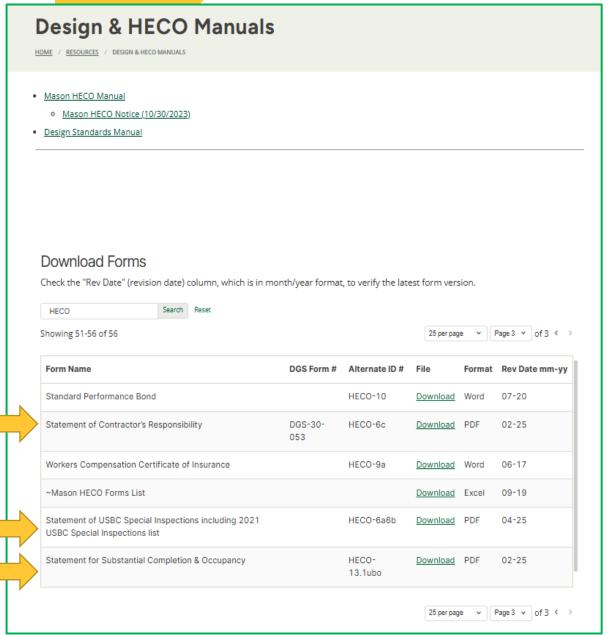
https://oubo.gmu.edu/resources/

University Resources

- OUBO Trimble Unity Construct (formerly e-Builder) Processes
- GMU Temporary Structure Permit Guide
- GMU Design Standards Manual



- GMU HECO/DGS Forms
- GMU Trimble Unity Construct (formerly e-Builder)
- GMU Facilities Planning, Design and Construction
- Executive Vice President of Finance & Administration
- GMU University Leadership
- GMU Board of Visitors
- GMU Campus Maps and Directions
- GMU Capital Strategy and Planning
- Tier III Management Agreement



INSTRUCTIONS - HECO-6a, -6b, -6c Forms

- FORMS FOR SPECIAL INSPECTIONS AND TESTS
 - VCC Chapter 17 Special Inspections and Tests
- HECO-6a STATEMENT OF STRUCTURAL & SPECIAL INSPECTIONS
 - Cover Page
- HECO-6b 2021 USBC SPECIAL INSPECTIONS
 - List of Special Inspections required for project
 - Completed by the RDPs
- HECO-6c STATEMENT OF CONTRACTOR'S RESPONSIBILITY
 - Special inspections for seismic, wind resistance
- Submit completed and signed forms
 - PDF format to OUBO with plans for review
 - Include copy in project files



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

INSTRUCTIONS

- 1) Complete Form HECO-6a, the "Statement of VUSBC Special Inspections" cover page. (Click on the "HECO-6a" tab below to access it.)
- Form HECO-6b to be filled out by the projects registered design professional(s), "2021 USBC Special Inspections" list. (Click on the "HECO-6b" tab below to access it.)
- 3) Obtain the Structural Engineer of Record, A/E of Record, and Smoke Control RDP signatures for the HECO-6a form.
- 4) Submit both forms in PDF format with the Office of University Building Official as part of the review submission. Forms are to be incorporated into the specifications or a single manual if no project specifications are provided. Do not provide excel format forms and do not provide forms on the drawings.
- Include a copy of the original completed HECO-6a and -6b in the Project's original files.

	STATEM	ENT OF STRU	CTURAL 8	SPECIAL IN	NSPECTI	ONS	
2021 Code							HECO-6a
(Revised 01	/13/25)						
					DATE:		
PROJECT	TITLE:						
PROJECT	CODE/ PROJECT #:						
A/E OF RE	CORD:						
	g firms and/or individuals (wi designated below. The firm/ i dicated.						
		TESTING A	ND INSPECT	TION SERVICE			
	SPECIAL INSPECTION	18	INSPECTION	ON MANAGER		SMOKE	CONTROL
	TEST LAB	_		F RECORD			& INSPECTION
Name:		Name:			Name:		
Address:		Address:			Address:		
City/St/Zip		City/St/Zip			City/St/Zip		
Phone:		Phone:			Phone:		
		UNIVERSITY	REPRESEN'	TATIVES & PR	OJECT ST	AFE	
Name	STRUCTURAL OBSERVA		CONSTRUC	TION MANAGER	Mana	PROJEC	T MANAGER
Name: Address:		Name: Address:			Name: Address:		
City/St/Zip		Address.			Address.		
Phone:							
Copies of al	nd/or Testing responsibilities I test data and reports shall b hall be notified of all deficien	e provided to the A/E	of Record and	to the University's	Project Man	ager on a timel	
Contractor a	mail be notined of all delicien	and and andreparion	oo iii u tiirioiy iii	unifici so triat corre	ocuve acaom	cuit be taken.	
		PROFESSIONA	L OVERSIG	HT AND CERT	IFICATION	ı	
	STRUCTURAL						
	ENGINEER OF RECO		RDP o	f RECORD		SMOKE C	ONTROL RDP
Name:		Name:			Name:		
Address: City/St/Zip		Address: City/St/Zip			Address: City/St/Zip		
Phone:		Phone:			Phone:		
i none.		T HOTIG.			T HOHO.		
7	Signature) (D	Date)	(Signature)	(Date)		(Signature)	(Date)
		CODE OFFICI	AL'S ACCEP	TANCE			
Annenuadi	This form is ann	round by the Unive	reity Building (Official upon acco	antanco and	normitting of	
Approved:		roved by the Univer	, ,	omiciai upon acce	eptance and	permitting of	
		s and specifications	S.				
Comments		Manager					
Original to:		manager					
Copies to:	Design Team						
Attachmen	Support Staff HECO 6h List of 1	Special Inspections					
Attachmen	. HECO-OD LIST OF	special inspections					

HECO-6a

- STATEMENT OF STRUCTURAL & SPECIAL INSPECTIONS
 - Identifies qualified firms, individuals:
 - Inspection and testing services
 - University representatives
 - Registered Design Professionals (RDP)
 - Requires signatures of:
 - Structural Engineer of Record
 - RDP of Record
 - Smoke Control RDP

A Permit will not be issued without a completed form after the CO-9NP.

HECO-6b - 2021 VUSBC SPECIAL INSPECTIONS

- Page Headings
 - Types of Inspections, Reference columns updated for 2021 VCC; including
 - Contractor Responsibility
 - Deep Foundations
 - Mass Timber
 - Inspection/Test By columns simplified

- Page Headings (ctd)
 - RDP add lines, columns, notes as needed for other required items
 - Indicate (Yes) only if Required This Project
 - Indicate who is required to perform the inspection or test
 - Indicate if Continuous (Periodic)

	2021 VI	JSBC S	PECIAL INSPE	CTIONS				HECO-6
2021 Code Version (Revised 01/13/25)	Project Title: Project Code/ Project #:		<i>i</i>					
		REQ'D			INS	PECTION / TEST	Г ВҮ	
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:
STEEL CONS	TRUCTION							
Fabricator	Quality Control Inspection Of Shop	YES	VCC 1704.2.5	X (Periodic)	2			
Steel	Welding	YES	AISC 360-16 N5.1	X (Periodic)				
Steel	High Strength Bolting	YES	AISC 360-16 N5.1	X (Periodic)				
Steel	Galvanized structural steel		AISC 360-16 N5.1	X (Periodic)				
Decking	Cold Form Steel Decking	YES	VCC 1705.2.2	X (Periodic)				
Joist	1a open web joist and joist girders end connections.	YES	VCC T1705.2.3	X (Periodic)	2			
	4h4 anan wah isist and isist sindan standard bridging	YES	VCC T1705.2.3	X (Periodic)	2			
Joist	1b1 open web joist and joist girder standard bridging.	TES	100 11100.2.0	71 (1 0110 alo)				
Joist Joist	1b2 open web joist and joist girder standard bridging. 1b2 open web joist and joist girder other bridging. Cold form steel trusses, span >60 feet	TES	VCC T1705.2.3	X (Periodic)	2			

HECO-6b - 2021 VUSBC SPECIAL INSPECTIONS

- Masonry Construction Quality Assurance Levels
 - QA Levels updated per TMS 402/602
 - Inspection requirements listed for each level
 - Indicate QA Level, required inspections

MASONRY CO	ONSTRUCTION		Level 1	Level 2	Level 3	
Assurance Level	Indicate Quality Assurance Level (1, 2, 3)		TMS 402 3.1			
Masonry - Verify	Verification of compliance of submittals.		TMS 602 1.6 Table 3	Required	Required	Required
Masonry - Verify	Verify f'm and f'AAC.		TMS 602 1.6 Table 3	Not Required	Required	Required
Masonry - Verify	Verify slump flow and Visual Stability Index for self-consolidating grout.		TMS 602 1.6 Table 3	Not Required	Required	Required
Masonry - Verify	Verfiy f'm and f'AAC, for every 5,000 sq.ft.		TMS 602 1.6 Table 3	Not Required	Not Required	Required
Masonry - Verify	Verify proportions as delivered to the project site.		TMS 602 1.6 Table 3	Not Required	Not Required	Required
Masonry - Inspect	1a Proportions of site-prepared mortar.		TMS 602 1.6 Table 4	Not Required	Periodic	Periodic
Masonry - Inspect	1b Grade and size of prestressing tendons and anchorage.		TMS 602 1.6 Table 4	Not Required	Periodic	Periodic
Masonry - Inspect	1c Grade, type and size of reinforcement, connectors, anchor bolts, and prestresssing tendons and anchorage.		TMS 602 1.6 Table 4	Not Required	Periodic	Periodic
Masonry - Inspect	1d Prestressing technique		TMS 602 1.6 Table 4	Not Required	Periodic	Periodic
Masonry - Inspect	1e Properties of thin-bed mortar for AAC masonry		TMS 602 1.6 Table 4	Not Required	C/P	Continuous
Masonry - Inspect	1f sample panel construction		TMS 602 1 6 Table 4	Not Required	Periodic	Continuous

HECO-6b - 2021 VUSBC SPECIAL INSPECTIONS

- Contractor Responsibility (added)
 - Where required by VCC 1704.4 for seismic or wind resistance systems or components
 - Contractor completes and submits HECO-6c prior to construction
- Structural Observations
 - Where required by VCC 1704.6.1, the RDP or the OUBO
 - Structural Observer submits written statements to the OUBO as required by VCC 1704.6

		REQ'D			INS	PECTION / TEST	Г ВҮ	
MATERIAL/	TYPE OF INSPECTION	THIS PROJ?		SPECIAL INSPECTOR/	RDP OF RECORD	OTHER:	OTHER:	OTHER:
ACTIVITY	(RDP add lines as needed to identify other required items)	(Yes)	REFERENCE	TEST LAB				
CONTRATOR F	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)			

HECO-6c - STATEMENT OF CONTRACTOR'S RESPONSIBILITY

- Where HECO-6b requires Special Inspections for seismic and/or wind resistance, Contractor completes, signs and submits HECO-6c to the OUBO prior to construction
- Form indicates the Contractor's awareness of the special requirements
- RDP or A/E approve, sign and seal the completed form
- If HECO-6b does not require such special inspections, the HECO-6c form is not required



HECO-6c DGS-30-053 (Rev. 2/25) 2021 Code Version

00 University Drive, MS 1E4, Fairfax, Virginia 22030 one: 703-993-6070; Email: oubo@amu.edu; Web: oubo.amu.edu

Statement of Contractor's Responsibility

Project #:	
Project Title:	
Building #:	
Contractor Name:	
Contractor License #:	
Seismic – Special Inspections required	by Section 1704.3.2 of the 2021 VUSBC
Special inspections for Seismic Res	istance are not required for this Project.
	istance are required. In accordance with
VUSBC 1704.4, the Contractor is av the Statement of Special Inspection:	ware of the special requirements contained in s & Structural Observations.
Wind – Special Inspections required by	Section 1704.3.3 of the 2021 VUSBC
Special Inspections for Wind Resista	ance are not required for this Project.
Special Inspections for Wind Resista	ance are required. In accordance with
_	ware of the special requirements contained in
the Statement of Special Inspection	s & Structural Observations.
Submitted by:	Approved by:
Contractor Signature	A/E Signature
Printed Name / Title	Printed Name / Title
Date	Date
	ATTINGTAL CIGALITATION A DATE
	AFFIX SEAL, SIGNATURE, & DATE

(Send copy of approved document to Office of University Building Official)



HECO-13.1b

2021 Code Version (Revised 01/13/25)

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

FINAL REPORT OF STRUCTURAL AND SPECIAL INSPECTIONS

	DATE:			
PROJECT TITLE:				
PROJECT NUMBER:				
A/E OF RECORD:				
			s required for this project, and itemized on the For ctural and Special Inspections, submitted for perm	
The discrepancies that remain of attached pages.	utstanding since the last interim re	eport, dated	, have been corrected or resolved as noted in the	ie
Respectfully submitted,				
STRUCTURAL ENGI	NEER OF RECORD		RDP OF RECORD	
Signature:		Signature		
Date:		Date:		
		- Date.		
SMOKE CONTROL R	DP		STRUCTURAL OBSERVER	
Signature:		Signature		
Date:		Date:		

HECO-13.1b

Download Forms

13.1

Check the "Rev Date" (revision date) column, which is in month/year format, to verify the latest form version.

Search Reset

Showing 1-8 of 8 25 per page 🗸 File **Form Name** DGS Form # Alternate ID # Format Rev Date mm-yy A/E's Certificate of Substantial Completion HECO-13.1a Download Word 06-17 Additional Financial and Insurance Requirements for Self-HECO-16 Download Word 09-18 Bonding Attachment B Certificate of Completion by A/E or Project Mgr HECO-13.1 Download Word 11-18 Certificate of Completion of a Communication HECO-13.1-twr 02-19 Download Word Tower/Antenna by A/E or PM Certificate of Partial or Substantial Completion by HECO-13.1c Download Word 08-23 Inspector, Project Manager, or Construction Administrator HECO-13.1b Final Report of Structural & Special Inspections **Download** PDF 02-25

GEORGE MASON UNIVERSITY



OUBO Web Resources

Structural-Review-Tips-rev.2.25.pdf

10.Delegated Design Items & Deferred Submittals: Provide sufficient information on the plans and specifications for the design and/or procurement of structural systems not detailed on the plans. Delegated designs shall be performed by an engineer licensed in the Commonwealth of Virginia, be reviewed by the Engineer of Record, and be approved by the OUBO prior to installation. Provide a list of all delegated designs on the cover sheet for the project

- Codes & Design Criteria Office of University Building Official
- Microsoft Word Mason HECO Manual -2023 V2.0



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Structural Review Tips

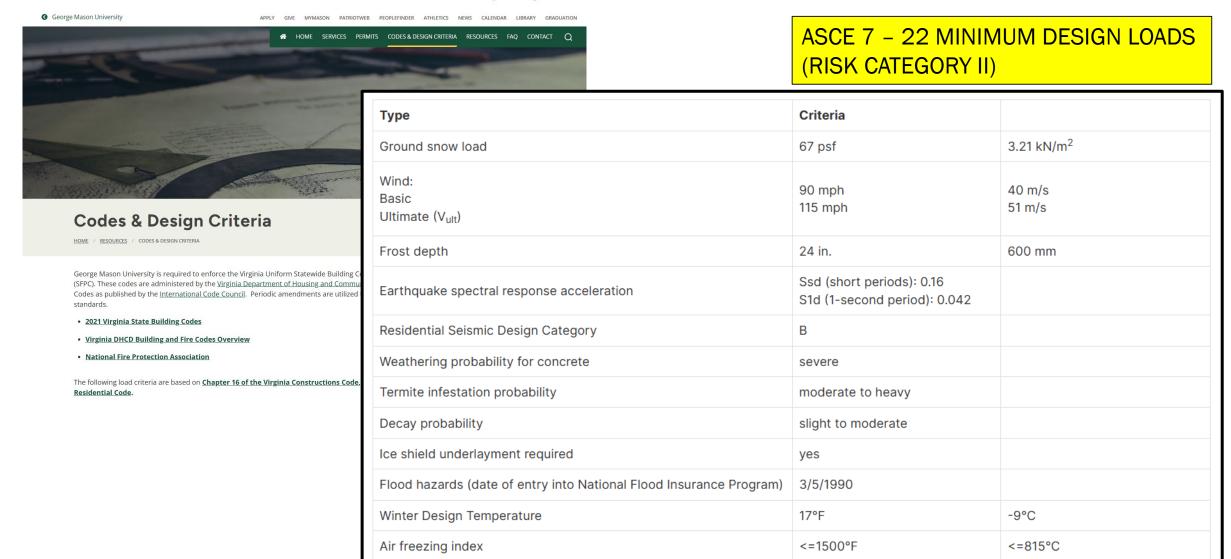
- 1. Structural Design Assumptions: Include the design loads and assumptions used in the design of the building, preferably on the first page of the structural sheets. These loads include live loads, factors related to snow loads (exposure factors, thermal factors) wind loads including component and cladding, seismic loads, and other special loads as appropriate. Indicate if live load reduction and repetitive member increase is allowed. (USBC 1603.1.1 through 1603.1.9)
- Geotechnical Information: Provide information on the drawings from the geotechnical engineer, including allowable soil bearing capacity and lateral earth pressures and expansive soil evaluation if required. (USBC 1603.1.6)
- Symbols and Abbreviations: Verify that all symbols and abbreviations used in the structural drawings are identified in the general notes or elsewhere on the plans.
- 4. Coordinate the Drawings: Ensure the structural drawings are complete and coordinated both internally and with other disciplines. Verify each plan callout references the correct detail. Make note of how typical details are to be used.
- 5. Structural Calculations: Provide structural calculations for all new work on a project, including changes made to the structure of an existing building. Calculations shall be organized so as to facilitate the review process. A summary of each type/area of structural member shall be included (i.e., exterior wall footings, interior spread footings, first floor framing members, exterior cold formed steel wall members). (USBC 109.3)
- Components & Cladding: Indicate in the construction documents and calculations
 the component and cladding loads the members are designed to support. In the
 calculations provide a summary of the loads, and combination of loads, that were
 used to design the members. (USBC 1603.1.4)
- 7. Structural Analysis: Organize the calculations in such a way to account for all load effects on individual members as well as the overall structural system. Check the structure both for strength and serviceability. Ensure that the serviceability that the members were designed to are included in the construction documents. Include in the construction documents the serviceability requirements that were used in the design. (USBC 1604.2 through 1604.4)
- Structural and Special Inspections: Fill out the <u>HECO-6a6b</u>, <u>HECO-6c</u>, and <u>HECO-13.1b</u> forms as appropriate for each project. These forms relate to *Structural and Special Inspections* and ensure compliance with Chapter 17 of the USBC. Make note of these inspections on the drawings. (USBC Chapter 17)

Rev. 2/25



Office of University Building Official

Mean annual temperature



10°C

50°F

ASCE 7 Minimum Design Loads

- VCC Code Cycles
 - 2018 VCC: ASCE 7-16
 - 2021 VCC: ASCE 7-22
- ASCE 7-22 compared to 7-16
 - 7-22 Snow loads significantly higher, vary by Risk Category
 - Load combinations differ
 - Do not intermix standards
 - VCC 2021 ground snow loads (Figures 1608.2) are based on lower ASCE 7-16 values
- Use GMU Design Criteria
 - Check <u>ASCE Hazard Tool</u> for Risk Categories III, IV

ABOX STANSARD

***900/569**

7-22

Minimum Design Loads and Associated Criteria for Buildings and Other Structures





HECO Manual

- **8.8.7 Working Drawings:** Shall show or provide the following information **Structural Drawings:**
 - 2. Show design live loads, wind loads, and seismic criteria used for design of structural systems per USBC Section 1603.
- 1603.1.4 Wind and tornado design data
 - Indicate applicable design wind pressures and their applicable zones for exterior component and cladding (C&C) materials not specifically designed by the RDP responsible for the design of the structure
- Indicate applicable dead loads (VCC 1606) and live loads (VCC 1607) for the project
 - 1606.3 Weight of fixed service equipment, including the maximum weight of the contents of fixed service equipment, shall be included.
 - 1607.3 <u>Uniform live loads</u> shall be the maximum loads expected by the intended use or occupancy but shall not be less than the minimum uniformly distributed live loads given in Table 1607.1.
 - 1607.4 Concentrated live loads.
 - 1607.9 <u>Handrails and guards</u> shall be designed and constructed for the structural loading conditions set forth in Section 1607.9.1. <u>Grab bars, shower seats and accessible benches</u> shall be designed and constructed for the structural loading conditions set forth in Section 1607.9.2.

HECO Manual

- **8.8.7 Working Drawings:** Shall show or provide the following information **Structural Drawings:**
 - 11. Details of connections to existing buildings, if applicable.
- 8.8.1.1 Verification of Existing Conditions: The A/E shall visit the site and ascertain pertinent local conditions that must be addressed in the design. . . to verify, by on-site observations of applicable existing buildings . . . the conditions accessible for verification.
- VCC 1901.3 Anchoring to concrete.
 - Anchoring to concrete shall be in accordance with ACI 318, Chapter 17.
 - Indicate anchor bolt quantity, type, material, size and embedment depth
 - The size and thickness of the existing concrete slab shall be sufficient to provide anchorage embedment and edge distances as required by the anchor manufacturer
- VCC 2304.10.6 Fasteners and connectors in contact with preservative-treated and fireretardant-treated wood shall be in accordance with this Section.

Interior Walls, Partitions

- VCC 1607.16 Interior walls and partitions.
 - Interior walls and partitions that exceed 6 feet in height, including their finish materials, shall have adequate strength and stiffness to resist the loads to which they are subjected but not less than a horizontal load of 5 psf.
- Indicate Basis of Design for interior walls and partitions.
 - Light-gauge metal framing (cold-formed steel) design for structural and non-structural members shall be in accordance with VCC Sections 2210 and 2211
 - Specify framing member size and grade, connections and fasteners
 - Alternatively, list light gauge metal framing as delegated design

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.





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

STATEMENT FOR SUBSTANTIAL COMPLETION & OCCUPANCY

Date:	
To:	Office of University Building Official George Mason University 4400 University Drive, MSN 1E4 Fairfax, Virginia 22030
	ECT TITLE:
knowle Univer are Su	ordance with the requirements of the Contract between the University and the A/E, and the edge 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 obstantially Complete in accordance with the requirements of the Contract Documents. It will scope artial Scope
Statev	plicable tests, certificates, and regulatory inspections required by the Virginia Uniform vide Building Code (USBC) for this Project, have been performed with respect to the antially Complete portions of the Project.
Verifi	cation of Completion by A/E of Record
certific	y of the HECO-13.1b Final Report of Structural & Special Inspections is attached to this ate. 'es Not Required
	y of the HECO-13.3b AE Checklist for Beneficial Occupancy is attached to this certificate. es Not Required
attach	y of the Testing and Air Balancing (TAB) Report approved by the engineer of record is ed to this certificate or pending future submission before permit close-out. 'es Pending submission Not Required
Buildir	documentation (if VEES is compliance method selected to meet High Performance ags Act (es Pending submission Not Required
pendir	y of the ASHRAE 110 Test for Fume Hoods and Verification is attached to this certificate on a future submission with the TAB report before permit close-out. Yes Pending submission Not Required

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:

Plan Review

HOME / SERVICES / PLAN REVIEW

Project managers can submit drawings to the OUBO in <u>e-Builder</u> 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
- <u>Facilities Design Guidelines</u>
- 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

Trimble Unity Construct

OUBO Plan Review (UBOPL)

Start Process

Project: zzz OUBO Test Project

Project Number: Z912345

Process: OUBO Plan Review

Details Documents (0) Attached Processes (0) Attached Forms (0)

Expand All | Collapse All

Instructions

For more details, please go to Plan Review.

For a project with multiple buildings, submit a plan review process for each building separately.

Tips to Avoid Common Review Errors

- Plan Review Checklist
- Administrative Plan Review Tips
- Architectural Review Tips
- Electrical Review Tips
- Fire Safety Review Tips
- Fire Alarm Review Tips
- Fire Sprinkler Review Tips
- Mechanical Review Tips
 Chrystyral Review Tips
- Structural Review Tips

Trimble Unity Construct • Structural Review Tips * Estimated Construction Start: * Estimated Construction End: * Building: -- Please select an option --* Drawing Type: Concept/Re-evaluation * Drawing Requirements: All items listed must be included on the drawings for OUBO review. Project Name and Project Number clearly identified and correct on all submitted drawings. Designer name, address, and contact information clearly identified on all submitted drawings. ☐ Submission date clearly identified on all submitted drawings. ☐ View title and drawing scale clearly identified on all submitted drawings (where applicable). A/E Seal signed, dated, and applied to all submitted drawings (when required). Drawing Submission Type is clearly identified (Schematic Drawings, Preliminary Drawings, Working Drawings, etc.) * Drawings: Drag and drop file here Browse e-Builder **Browse Computer** Project Manual: Drag and drop file here **Browse Computer** Browse e-Builder Statement of VUSBC Special Inspections * Are there special inspections required?: Download File If yes, please provide the CO6a and 6b. (CO-6a and 6b): - Please select an option -- \vee Drag and drop file here **Browse Computer** Browse e-Builder * Is this a roofing project?: If yes, please provide the roofing survey. Roofing Survey: Drag and drop file here **Browse Computer** -- Please select an option -- \vee Browse e-Builder

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
- 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

Page December	Trimble Unity Construct	
	* Project Required Documents:	BULDING Elevator inspection completed and Certificate of Use Final Report of Special Report (FSCO 13.1b) including all reports numbered sequentially. Reoding Completion Report (FSCO Appendix O.) It est/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-13.1bb)

Close-out Documents

Construction Type:	<u>IIB</u>
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

										SHEET
PC							MEANS OF EGRESS	# OF REQUIRED EXITS	# OF EXITS PROVIDED	. SHILL I
MC							STAIRWAYS (PER FLOOR)			
FGC							EGRESS @ 1ST FL OR LSBO			
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NSI-A1							PANIC HARDWARE ON EXIT DOG		(SECTION 1008.1.9 IBC 26	019
DA							STAIRWAYS (SECTION 1011	IBC 2018)		
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							mar recommend			
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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 PRICEAS ARCHITECTURK, CUNKING IE: For exhibitional precess concrete to comply with specified portionance replayments and delign ordera EXTEROIX STONE CADDING COLLA-FORED DEPTA, FRAMING METIA, PARRICATIONS For states, ratings and guartes, precess terrazzo treads, epoxy-resin-filled METIA, PAR STARIS For states, ratings and guartes, precess terrazzo treads, epoxy-resin-filled

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 soffs pavels support system.

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

INEAPA METAL SOFFT 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 orders
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 precast panels

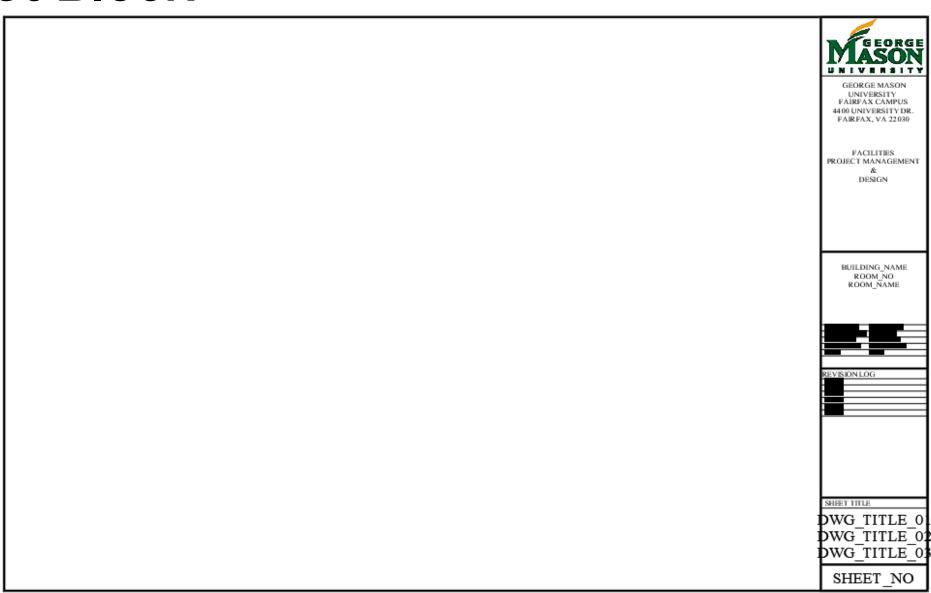
Projection And Control Section 1 and Application of Control Section 1 and Application 1 and Applicatio

penetrations IDENTIFICATION FOR ELECTRICAL SYSTEMS: For arc-flash hazard study A/E INFORMATION

2-inch square OUBO Stamp

PAGE NUMBERS

Sheet Block



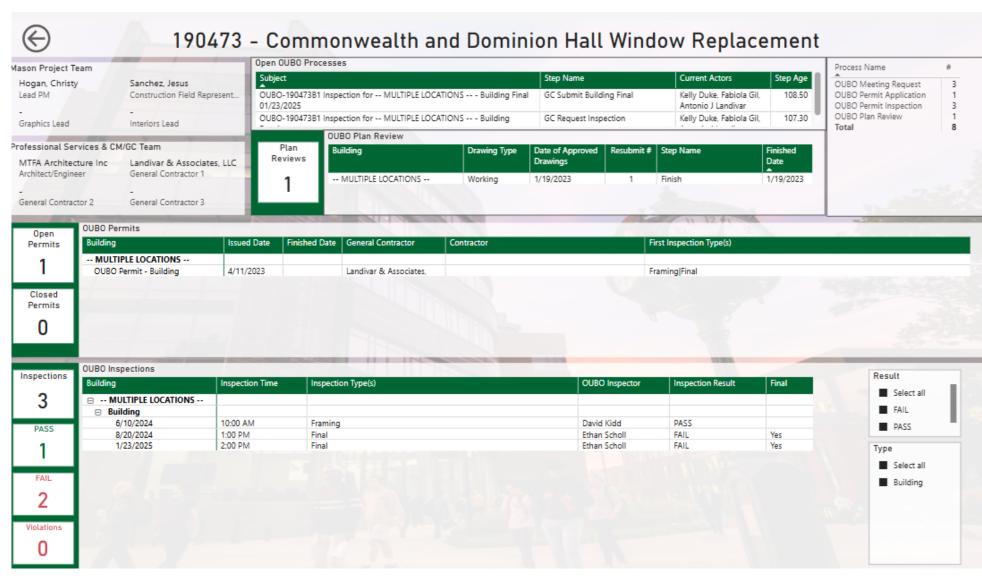
Plan Review Checklist

	low. For each technical- or code-related item on the following pages, is plan review record are the most typical for most projects and do not 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 applical	ble)
Name:	
PR No <u>.:</u>	Telephone:
Email:	
Code Information	
Check all that apply:	
☐Virginia Existing Building Code (existing comm	ercial, multi-family and Group R-3 residential construction)
Level 1 Alteration Repair	Level 2 Alteration Change of Occupancy
☐ Moved Building ☐ Historic Build	ding Addition
Page 1 of 4	2021 Interior Alterations Plan Review Record Version 21.0, updated July 2024

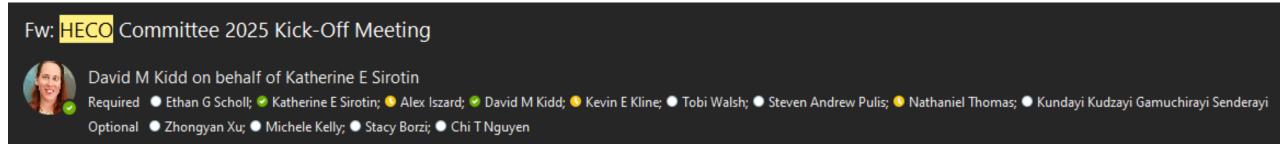
A. Occup	ancy and Buil	ding Inf	ormation					
Occupancy/								
Propose	d Group(s):	E	xisting Group	(s):	(VC	CC Chapter 3)		
Change	Change of Occupancy: □							
	. ,	ook all tha	t apply): (VCC	Section F	201			
	nd occupancy (ch n-separated mixe		с арріу). (УСС	Section 50	·	ed mixed use		
	idental use areas		incidental us	e nrovision				
	onstruction:			•		· · · · · ·	Section 504.4)	
	e Building Code:	,		,	ber of stories.		Jeedion 304.4)	
Building Info			dition					
Critical St		□Yes	□No					
Sprinklere	ed:	□Full	□Partial	□None				
Monitore	d:	□Yes	□No					
	l Area Building:	□Yes	□No					
High Rise: Atrium:	:	□Yes □Yes	□No □No					
	i n		2					
Administra Omplies N/A	tive Requirement	5						
omplies N/A	Building Plan Rev	view Cover	sheet is attac	hed or inc	orporated in t	the building drawi	ings.	
	Clear scope of w		•					
	Statement of Spe Drawings referen							
	•					s / devices is attac	ched.	
							ice buildings, etc.)	
			on the draw	ings and th	ie Fairfax Cou	nty Cover Sheet p	er VEBC Sections	
	103.9 and 601.2. Location of alter		oted on the d	rawings pe	r VEBC Sectio	on 601.2.		
	Repairs are iden			٠.				
	_	proffer or	condition and	l complian	ce method ide	entified on the pla	ans (If	
	applicable) Name, address,	and occupa	ation of the p	erson resn	onsible for th	ne design is noted	on the	
			•			l, embedded elec		
		rchitect or	engineer reg	istered in t	he commonw	vealth of Virginia.		
A. Access omplies N/A	sibility							
	Accessible route	is provide	d per VEBC Se	ection 404	and ICC/ANSI	A117.1 Section 4	02.	
	Door approaches	s comply w	ith required o	clearances	per ICC/ANSI	A117.1 Section 4	04.	
	Ramp slopes are		•					
	Accessible seatir	ig in assem	ibly areas is p	rovided pe	er VCC 1108.2	and ICC/ANSI A1	17.1 Section 802.	
Page 2 of 4			,	021 Interior A	lterations Plan Per	view Record Version 21	0 undated July 2024	



Project Summary Report

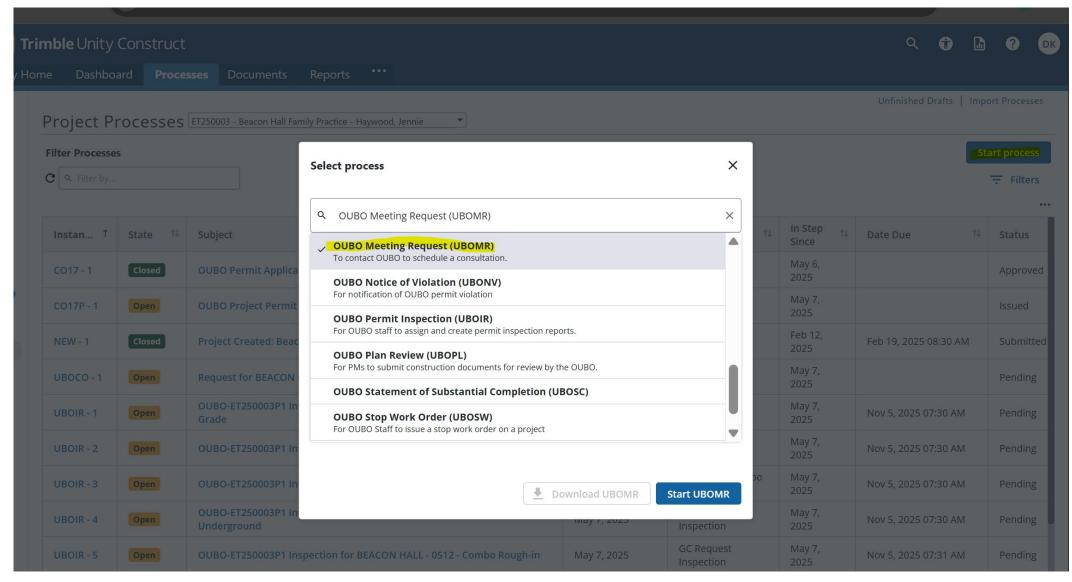


HECO 2025 Update



- 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.

UBOMR Process





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/







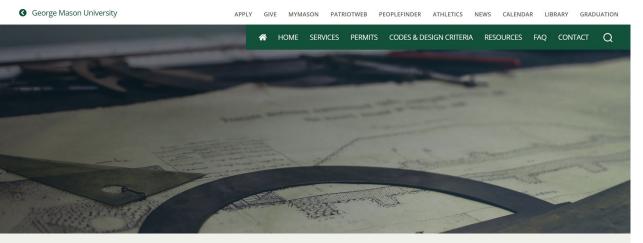


Training



Office of University Building Official

Q & D | D



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

