

# Office of University Building Official

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

### **INSTRUCTIONS**

- 1) Complete Form HECO-6a, the "Statement of USBC Special Inspections."
- 2) Complete Form HECO-6b, "2018 USBC Special Inspections" list.
- 3) Print both forms.
- 4) Obtain the Structural Engineer of Record, A/E of Record, and Smoke Control RDP signatures for the HECO-6a form.
- 5) Submit both forms <u>together</u> to University Building Official.
  Include a hard copy with the project documents or e-mail a pdf document to oubo@gmu.edu. DO NOT send the Excel file as appropriate signatures must be provided on the HECO-6a cover page.
- 6) Include a copy of the completed CO-6b list of special inspections in the Project Manual. The CO-6a cover page may be omitted from the Project Manual.
- 7) Include a copy of each RDP of record Virginia license.
- 8) Include a copy of each Special Inspection's & Materials Test Lab's Certificates.
- 9) Include a copy of each Special Inspector's Certificate(s).

## **STATEMENT OF STRUCTURAL & SPECIAL INSPECTIONS**

HECO-6a

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PROJEC									
PROJECT		R:							
A/E OF R									
A/E FIRM	OF REC	ORD:							
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			TESTING	AND INSPE	CTION SERVICE	<u>CE</u>			
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		AL TEST (SIMT) CO.			RECORD		TESTING & IN:		
Company:			A/E Name:			Name:			
Address: City/St/Zip			Title: email:			Address: City/St/Zip			
Phone:			Phone:			Phone:			
Lic No.			Lic No.			Lic No.			
			UNIVE	ERSITY PRO	JECT STAFF				
CONSTRUCTION			IELD REP.			PRO	JECT MANAGER		
	Name: email:				Name: email:				
	Ciliali.				Citiali.				
6b. Copies	s of all test	sting responsibilities a data and reports sha shall be notified of a	III be provide III deficiencie	ed to the A/E of I es and discrepar	Record and to the ncies in a timely m	University's nanner so th	Project Manager o at corrective action	n a timely	
	S.	PROFE TRUCTURAL	ESSIONAL	<u>. UVERSIGH</u>	T AND CERTIF	-ICATION			
	_	EER OF RECORD		A/E of	RECORD		SMOKE CONT	ROL RDP	
Name:			Name:			Name:			
Address: City/St/Zip			Address: City/St/Zip			Address: City/St/Zip			
Phone:			Phone:			Phone:			
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	(Signature)	(Date)		(Signature)	(Date)	-	(Signature)	(Date)	
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Approved:	:	This form is appro	-	-	ding Official upo	on acceptar	nce and permitting	g of	
Comments Original to Copies to:	):								
Attachmer	nt(s):	HECO-6b List of Sp	ecial Inspec	tions					

Certifications Licenses

TYPE OF INSPECTION  (A/E add lines as needed to identify other required items)  assify & Test Existing Soils & Fill Materials compaction Of Fill Materials carring At Bottom Of Footing Excavations civing Records, Tip & Cutoff Elevations add Test illing, Size, Bearing Conditions, Materials	REQ'D THIS PROJ ?	REFERENCE  Specs, 1705.6 Geotech Report Specs, 1705.6, Geotech Report Specs, 1705.6, Geotech Report 1705.7, 1705.9, Geotech Report	OWNER'S TEST LAB  X (Periodic)  X  X (Periodic)  X	A/E OF RECORD	CTION / TEST B SMOKE CONTROL	Y * CFR/PM	CONTRACTOF SUPPLIER
(A/E add lines as needed to identify other required items)  assify & Test Existing Soils & Fill Materials compaction Of Fill Materials cearing At Bottom Of Footing Excavations civing Records, Tip & Cutoff Elevations and Test	THIS	Specs, 1705.6 Geotech Report Specs, 1705.6, Geotech Report Specs, 1705.6, Geotech Report 1705.7, 1705.9, Geotech Report	X (Periodic) X X (Periodic)	A/E OF RECORD	SMOKE		
(A/E add lines as needed to identify other required items)  assify & Test Existing Soils & Fill Materials compaction Of Fill Materials cearing At Bottom Of Footing Excavations civing Records, Tip & Cutoff Elevations and Test	THIS	Specs, 1705.6 Geotech Report Specs, 1705.6, Geotech Report Specs, 1705.6, Geotech Report 1705.7, 1705.9, Geotech Report	X (Periodic) X X (Periodic)	A/E OF RECORD	SMOKE		
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ompaction Of Fill Materials earing At Bottom Of Footing Excavations iving Records, Tip & Cutoff Elevations and Test		Specs, 1705.6, Geotech Report Specs, 1705.6, Geotech Report 1705.7, 1705.9, Geotech Report	X (Periodic)	4			
riving Records, Tip & Cutoff Elevations and Test		1705.7, 1705.9, Geotech Report		4			
pad Test			X	4		I	
		4705 7 O4 D		4			
illing, Size, Bearing Conditions, Materials		1705.7, Geotech Report	Х	4			
		1705.8, 1705.3, Geotech Report	Х				
ISTRUCTION	•					•	•
eady-Mix Plant Quality Control		Specs, 1704.2.5		2			X, 1
x Design Tests And Certificates		Specs, 1705.3		Х			X, 1
nop Drawings Of Reinforcing Steel		Specs		Х			
acement Of Reinforcing Steel		1705.3	X (Periodic)	X (Periodic)		Х	
elding		1705.2.2	X (Periodic)	2			X,1
pecial Construction		1704.5.7	,	2			
nape, Location, Dimensions		1705.3	X (Periodic)			Х	X
emoval and Reshoring		1705.3	X (Periodic)				
est Cylinders & Strength Test		1705.3, 1910.10	X	4			
x Proportions & Mix On Delivery Tickets		1705.3				X (Periodic)	
ump Test		1705.3	Х	4		X	
acement Procedures		1705.3	Х	X (Periodic)		X (Periodic)	
uring Temperatures & Techniques		1705.3	Х			X	
estressing Procedures & Forces		1705.3	Х	2			X,1
nop Drawings Of Prestressed Units		Specs		Х			
uality Control Of Manufacturer		1704.2.5		2			X, 1
nop Drawings Of Precast		Specs		Х			
ection Of Precast		1705.3	X (Periodic)	X (Periodic)		X	X
spection Of Connections		1705.3	X (Periodic)				
einforcing Steel-Test Panel		1908.5, 1705.3	X	4			
nchors Cast In Concrete		Specs, 1705.2.1, 1909	X (Periodic)				
			,				
	eady-Mix Plant Quality Control ix Design Tests And Certificates rop Drawings Of Reinforcing Steel accement Of Reinforcing Steel elding recial Construction rape, Location, Dimensions removal and Reshoring rest Cylinders & Strength Test ix Proportions & Mix On Delivery Tickets rump Test accement Procedures accement Procedures accement Procedures & Forces restressing Procedures & Forces rept Drawings Of Prestressed Units uality Control Of Manufacturer rept Drawings Of Precast rection Of Precast rept Connections reinforcing Steel-Test Panel	pady-Mix Plant Quality Control ix Design Tests And Certificates inop Drawings Of Reinforcing Steel accement Of Reinforcing Steel elding becial Construction inape, Location, Dimensions emoval and Reshoring set Cylinders & Strength Test ix Proportions & Mix On Delivery Tickets imp Test accement Procedures accement Procedures accement Procedures & Forces inop Drawings Of Prestressed Units uality Control Of Manufacturer inop Drawings Of Precast ection Of Precast ection Of Connections einforcing Steel-Test Panel	grady-Mix Plant Quality Control         Specs, 1704.2.5           ix Design Tests And Certificates         Specs, 1705.3           ix Design Tests And Certificates         Specs           ix Design Tests And Certificates         1705.3           ix Design Tests And Certificates         1705.2.2           ix Design Tests And Certificates         1705.2.2           ix Design Tests And Certificates         1705.3.3           ix Design Tests And Certificates         1705.3           ix Design Tests Penel         1908.5, 1705.3	Specs   1704.2.5     Specs   1704.2.5     Specs   1704.2.5   Specs   Specs	Specs   Spec	Specs	Speck   1704.2.5   Speck   2   Speck   1704.2.5   Speck   Sp

Project Title:									
Project Number:									
		REQ'D		INSPECTION / TEST BY *					
MATERIAL/	TYPE OF INSPECTION	THIS		OWNER'S TEST	A/E OF	SMOKE	CFR/PM	CONTRACTOR	
ACTIVITY	(A/E add lines as needed to identify other required items)	PROJ?	REFERENCE	LAB	RECORD	CONTROL	OI IVI IVI	SUPPLIER	
	(			2.0	RECORD	CONTINUE		COLLECT	
MASONRY C	ONSTRUCTION								
Quality Assurance	Indicate Quality Assurance Level (A, B or C)		ACI 530, 1.19.1, 2, 3		Х				
Clay Masonry	Certificates, Tests & Technical Data		ACI 530, Table 1.19.1	X (Periodic)	Х			3	
Concrete Masonry	Certificates, Tests & Technical Data		ACI 530, Table 1.19.1	X (Periodic)	Х			3	
Reinf. Steel	Shop Drawings		Specs		Х				
Reinf. Steel	Size, Grade, Type, Location, Spacing Of Reinf Steel		ACI 530, Table 1.19.1	X (Periodic)					
Anchors	Manufacturer's Data		ACI 530, Table 1.19.1	X (Periodic)	X			3	
Accessories	Manufacturer's Data		Specs	` '	Х			3	
Mortar & Grout	Mix Design And Data		Specs		Х			3	
Mortar & Grout	Field Samples		ACI 530, Table 1.19.1	X (Periodic)	4				
Masonry Strength	Masonry Strength Verified		ACI 530.1	X	2, 4				
Masonry	Placement Of Units, Mortar & Accessories		ACI 530, Table 1.19.2	X (Periodic)	,				
Masonry	Protection Of Masonry Work		ACI 530, Table 1.19.2	X (Periodic)					
Anchorage	Placement Of Devices		ACI 530, Table 1.19.2	X (Periodic)					
Risk Cat. IV	A/E Shall edit list as required by ACI 530		Tables 1.19.2, 1.19.3		Х				
			,						
STEEL CONS	TRUCTION				ļ			Ļ	
Fabricator	Quality Control Inspection Of Shop		1704.2.5		2			X, 1	
Fasteners	Manufacturer's Certificate Of Compliance		AISC 360-10		2			3	
Struct. Steel	Manufacturer's Certificate Of Compliance		AISC 360-10		2			3	
Weld Matl's	Manufacturer's Certificate Of Compliance		AISC 360-10		2			3	
Metal Decking	Welding to Supports		1705.2.2	X (Periodic)					
Metal Decking	Manufacturer's Certificate Of Compliance		1705.2.2	(* 2112 312)	2			3	
Joist	Manufacturer's Certificate Of Compliance		1704.5.5		2			3	
Joist	Open Web Steel Joists-End Connections and Bridging		1705.2.3	X (Periodic)	_				
Details	Shop Drawings Review		Specs	71 (1 0110 010)	Х				
Erection	Installation Of High-Strength Bolts		AISC 360-10	X (Periodic)	1				
Erection	Welding		AISC 360-10	X (Periodic)				1	
Erection	Steel Framing And Connections		AISC 360-10	X (Periodic)	X (Periodic)		Х		
	2.55. Franking Fills Collinouscillo			7. (1 0110410)	71 (1 0110410)		,		
								+	

Project Title:								
Project Number:								
		REQ'D			INSPE	CTION / TEST B	V *	
MATERIAL/ ACTIVITY	TYPE OF INSPECTION  (A/E add lines as needed to identify other required items)	THIS PROJ ?	REFERENCE	OWNER'S TEST LAB	A/E OF RECORD	SMOKE CONTROL	CFR/PM	CONTRACTOR SUPPLIER
SEISMIC FOR	CE RESISTANCE INSPECTIONS (as required by VUS	BC 1705.1	11)					
	( Note: SDC refers to Seismic Design Category. )							
Structural Steel	Welding and Bolting		1705.12.1	X (Periodic)				
Wood	Field Glueing		1705.12.2	X				
Wood	Fastening Of Seismic Force Resistance System		1705.12.2	X (Periodic)			X	
Light Gage Steel	Fastening		1705.12.3	X (Periodic)			X	
Components	Mechanical & Electrical - Anchorage and Labeling (SDC = C)		1705.12.4, 1705.12.6	X (Periodic)				
Components	Architectural - Cladding, Veneer, Non-Bearing Walls (SDC = D)		1705.12.5	X (Periodic)				
Components	Access Floors (SDC = D)		1705.12.5.1	X (Periodic)				
Components	Storage Racks (SDC = D)		1705.12.7	X (Periodic)				
0510410 050	IOTANOS TEOTINO (							
	ISTANCE TESTING (as required by VUSBC 1705.13)							
Structural Steel	Steel Systems and Elements		1705.13.1, AISC 341					
Non-Structural	Components-Mfr's Certificate of Compliance		1705.13.2		2			3
Non-Structural	Designated Systems-Certificate of Compliance		1705.13.3		2			3
Structural	Isolation Systems		1705.13.4	X				
i								
WOOD & LIGI	T GAGE STEEL CONSTRUCTION			L	l	I.		
Fabrication	Quality Control Inspection Of Shop		1704.2.5		2			X, 1
Wood	Grade Stamp		Specs, 1703.5		X (Periodic)		Х	,
Wood/ Light Gage	Fastening Per Code And Drawings		1705.2.2, 1705.5.1		X (Periodic)		Х	
Trusses	Shop Drawings		Specs		X			
Trusses	Truss Placement, Bracing and Fastening & Anchorage		Specs, 1705.2.4, 1705.5.2		X (Periodic)		Х	
Laminates	Shop Drawings		Specs		X			
Laminates	Identification Per Shop Drawings		Specs		X (Periodic)		Х	
Sheathing	Grade Stamp, Thickness & Fastening		Specs, 1705.5.1	X	X (Periodic)		X	

			INSPECTION / TEST BY *						
MATERIAL/ ACTIVITY	TYPE OF INSPECTION  (A/E add lines as needed to identify other required items)	THIS PROJ ?	REFERENCE	OWNER'S TEST LAB	A/E OF RECORD	SMOKE CONTROL	CFR/PM	CONTRACTOR SUPPLIER	
				•					
FIREPROOFIN									
	Manufacturer's Data		Specs		X			3	
Spray-on	Surface Conditions		1705.14.2	X					
	Application		1705.14.3	X				3	
Spray-on	Thickness		1705.14.4	X					
Spray-on	Density		1705.14.5	X					
Spray-on	Bond Strength		1705.14.6	X					
Mastic/ Intumescent	Fire-Resistant Coatings - Materials, Application		1705.15	X	X (Periodic)		Х	3	
GWB Fireproof	Manufacturer's Data		Specs		X			3	
GWB Fireproof	Placement Of Materials		Specs		X (Periodic)		Х		
Fire Wall Assembly	Manufacturer's Data		Specs, 706.2		X			3	
Fire Wall Assembly	Placement Of Materials		Specs, 706.2		X (Periodic)		Х		
EXTERIOR INS	ULATION & FINISH SYSTEMS (EIFS)								
Materials	Manufacturer's Data		Specs		X			3	
Preparation	Condition Of Substrate		Specs, 1705.16.1		X (Periodic)		Х		
Application	Methods, Proportions & Thickness Of Installation	;	Specs, 1705.16.1	X (Periodic)	X (Periodic)		Х		
SMOKE CONTI	ROL (see note 5)							1	
	Device Location And Air Duct Leakage		1705.18.1			Х			
System	Pressure Difference, Flow Measurements & Detection Testing		1705.18.1			X		+	
	Activation Sequence		1705.18.1			X			
CTDUCTURAL	ODSERVATIONS ( and mate 7 )								
	OBSERVATIONS (see note 7) As determined in written statement by structural observer		Specs, 1704.6	Structural observati	on doos not in all	do or woive the	oononoihilit : f-	or the inequetion:	
SHUCE UDSERVATIONS	ras determined in writen statement by structural observer		SDECS 1704 0	i Situciural observati	on abes not inclu	ue or waive the t	esconsiduity to	or the inspections	

Project Title:	
Project Number:	

#### NOTES:

- Fabricator, supplier, ready-mixed plant or other production plant shall provide certificates from an approved independent inspection, testing or quality assurance agency attesting that the plant meets at least one of the following criteria:
  - a. The plant is a certified production plant meeting the quality assurance standards of a recognized national standards organization for that product.
  - b. The plant maintains an agreement with an independent inspection or quality assurance agency to conduct periodic in-plant quality assurance inspections. The frequency of these inspections shall not be less than one every six months.
  - c. The plant has an in-shop quality assurance inspection program by an independent testing or quality assurance agency for the work/ product to be provided on this project.
- 2. A/E shall review fabricator/ supplier/ producer certificates for conformance with appropriate standards of practice and quality assurance.
- Contractor/ supplier shall submit manufacturer's certificates of compliance for the materials/ products.
- 4. Reviews records and test results for conformance with requirements.
- 5. Special Inspection firm shall have expertise in fire protection engineering, mechanical engineering, and certification as an air balancer. The special inspector listed on the cover page and the Agency are responsible for verifying that the inspector(s) for smoke control is qualified as required by USBC 1705.18.2.
- 6. Unless noted otherwise, the reference numbers listed refer to the 2018 USBC.
- 7. The Owner's structural observer shall submit a written statement to OUBO identifying the frequency and extent of structural observations