HAYWARD

ADDENDUM NO. 1

November 22, 2019

SUBJECT: Hayward Fire Station #6 & Fire Training Center Project - Request for Proposal for Testing and Inspection Services

TO ALL PROSPECTIVE BIDDERS:

Attached is Addendum No. 1 to the Request for Proposal for the subject project.

Very truly yours,

for Kathy Garcia
Deputy Director of Public Works

cc: Chron
Kathy Garcia
Dave Hung/File

Attachment

ADDENDUM NO. 01

Request for Proposal #2007-111219
Testing and Inspection Services for Fire Station 6 and Fire Training Center

ADDENDUM SUMMARY

The following enclosed alterations, changes, clarifications, additions and/or deletions to the request for proposal shall be taken into consideration in preparation of your proposal and are hereby made a part of the request for proposal documents for the above project, and shall conform with all applicable information contained herein. This Addendum is part of the request for proposal document.

GENERAL ADDENDUM NOTES

The following changes, additions, and deletions shall be made to the following document(s); all other conditions shall remain the same.

1) Page 8 of the RFP asks for resumes for the employees assigned to this project. Page 6 of The RFP (2.2. Proposed Project Team) limits this section to three pages. Even with one-page resumes, we expect that our team resumes will exceed three pages. Is it permissible to submit resumes as an appendix that is not included toward the page limit?

   Response: Page 6 Item 2 "REQUIRED INFORMATION IN PROPOSAL", Parts 2.1 to 2.4 are deleted. Refer to Page 8 "SUBMISSION" for required information to be included in your proposal. The page limit requirement is removed.

2) How many labs are being solicited for this opportunity to bid ... as well will one of them be the City's on call laboratory possibly already under contract with the City of Hayward.

   Response: The RFP is posted in eBidboard.com which reaches out to Builders Exchange, Plan Rooms and other services. The RFP was also sent to 14 labs which included labs who currently have on-call contracts with the City. This RFP will be for a separate testing/inspection contract for the Fire Station 6 & Fire Training Center Project.

3) Please provide DSA 103 for the four DSA building structures.

   Response: For the four DSA Building Structures, attached for reference are two (2) DSA 103 (Increments 1 and 2) submitted to DSA which has yet to be approved by DSA.

4) Please confirm which section of the RFP is applicable between the following two competing requirements for the same information:
   a. Page 6 item 2. "Required Information in Proposal"
   b. Page 8 "SUBMISSION"

   Response: Page 6 Item 2 "REQUIRED INFORMATION IN PROPOSAL", Parts 2.1 to 2.4 are deleted. Refer to Page 8 "SUBMISSION" for required information to be included in your proposal.

5) Under item 2. "Required Information in Proposal" there are the following possible problems/errors/omissions:
   a. The page limitations will be impossible to meet for 2.4 "Schedule of Costs (limit 2 pages)" for the nine structures.
   b. No worksheet is provided as noted for item 2.3 Proposed Methodology and Capabilities

Response: Page 6 Item 2 "REQUIRED INFORMATION IN PROPOSAL", Parts 2.1 to 2.4 are deleted. Refer to Page 8 "SUBMISSION" for required information to be included in your proposal.

6) Please confirm that proposals will be accepted in an electronic .pdf format via email with an electronic signature.

Response: Per page 12 "DEADLINE FOR RECEIPT OF PROPOSALS" of the RFP, proposals can be emailed to MARIA.CARRILLO@HAYWARD-CA.GOV or delivered to the office of the Purchasing Manager.

Attachments:

DSA 103 Increment #1 (7 pages)
DSA 103 Increment #2 (4 pages)

END OF ADDENDUM NO. 01

DSA DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

DSA-103 Revised 5/8/2019

List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT # 1 | DSA File No.: | Application No.: 01-017774 | Date Submitted: 2019.07.23 | Revised: | Revised:

School Name	Hayward Fire Station #6 & Fire Training Center	District	

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.
NOTE: This form is also available for projects submitted for review under the 2007, 2010, and 2013 CBC.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected.
For more information on use of this form, see DSA-103.INSTR.

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE [1]	PERFORMED BY [2]	CODE REFERENCE AND NOTES
-	**SOILS (Indicate if project has geotechnical report):**			(●) Project has a geotechnical report, or CDs indicate soils special inspection is required by GE. ( ) Project does NOT have and does NOT require a geotechnical report.
-	**1. GENERAL:**	Table 1705A.6		
X	a. Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	**2. SOIL COMPACTION AND FILL:**	Table 1705A.6		
X	a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
X	b. Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
X	c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)
-	**6. OTHER SOILS:**			
X	**a. Soil Improvements**	Test	GE*	Submit a comprehensive report documenting final soil improvements constructed, construction observation, and the results of the confirmation testing and analysis to CGS for final acceptance. * By geotechnical engineer or his or her qualified representative.

+ In the CODE REFERENCE AND NOTES column indicates DSA-SS/CC sections that may be used by community colleges, per 2016 CBC Sec. 1.9.2.2.

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X	**b. Inspection of Soil Improvements**	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
-	**CONCRETE**	**Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13**		
-	**7. CAST-IN-PLACE CONCRETE**			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	**Periodic**	**SI**	**Table 1705A.3 Item 5, 1910A.1** (1909.2.3+)
X	b. Identifiy, sample, and test reinforcing steel.	**Test**	**LOR**	**1910A.2** (1909.2.4+); ACI 318-14 Section 26.6.1.2. DSA IR 17-10.16 (See Appendix for exemptions.)
X	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	**Test**	**LOR**	**Table 1705A.3 item 6**; ACI 318-14 Sections 26.5 & 26.12
X	d. Test concrete (f'_c).	**Test**	**LOR**	**1905A.1.16** (1909.3.7+); ACI 318-14 Section 26.12.
	Inspection:			
X	e. Batch plant inspection ◉ Continuous ○ Periodic	**See Notes**	**SI**	Default of **'Continuous'** per **1705A.3.3**; If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1** or eliminated per **1705A.3.3.2.** (See Appendix for exemptions.)
X	h. Welding of reinforcing steel.	Provide special inspection per STEEL, category 19.1(d) & (e) and/or 19.2(g) & (h) below.		
-	**11. POST-INSTALLED ANCHORS:**			
X	a. Inspect installation of post-installed anchors	**See Notes**	**SI***	**1616A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic)** (See Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by DSA.
X	b. Test post-installed anchors.	**Test**	**LOR**	**1910A.5** (1909.2.7+). (See Appendix for exemptions.)
-	**MASONRY**	**TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5**		
-	**15. POST-INSTALLED ANCHORS IN MASONRY:**			
X	a. Inspect installation of post-installed anchors	**See Notes**	**SI***	**1705A.4, 1616A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic)** (see Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA. (See Appendix for exemptions.)
X	b. Test post-installed anchors.	**Test**	**LOR**	**1705A.4, 1910A.5** (1909.2.7+). (See Appendix for exemptions.)
-	**16. OTHER MASONRY:**			
X	**a. Inspect placement of reinforcement and connectors**	**Continuous**	SI	TMS 402-13 Table 3.1.3 Item 2d, TMS 602-13 Table 5 item 2d.
X	**b. Inspect placement of units and construction of mortar joints.**	**Periodic**	SI	TMS 402-13 Table 3.1.3 Item 2c, TMS 602-13 Table 5 Item 2c.
-	**STEEL, ALUMINUM**	**Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10**		
-	**17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	**Periodic**	*	**2203A.1** (2203.1+), **Table 1705A.2.1 Item 3a-3c;** AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when performed off-site.
X	b. Test unidentified materials	**Test**	**LOR**	**2203A.1** (2203.1+).
X	c. Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
	Inspection:			

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X	e. Verify and document steel fabrication per DSA approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
-	**18. HIGH STRENGTH BOLTS:**	**RCSC 2009**		
	Material Verification of High-Strength Bolts, Nuts, and Washers:			
X	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	Periodic	SI	**Table 1705A.2.1 Item 1, 2203A.1;** RCSC 2009 Section 2.1. DSA IR 17-9
X	b. Test high-strength bolts, nuts and washers.	Test	LOR	**2213A.1** (2212.6.1+). RCSC 2009 Section 7.2 DSA IR 17-8.16
	Inspection of High-Strength Bolt Installation:			
X	c. Bearing-type ("snug tight") connections.	Periodic	SI	**Table 1705A.2.1 Item 2a;** RCSC 2009 Section 9.1. DSA IR 17-9
X	d. Slip-critical connections.	*	SI	**Table 1705A.2.1 Item 2b & 2c.** RCSC 2009 Section 9.2 & 9.3. * "Continuous" or "Periodic" depends on the tightening method used, DSA IR 17-9 and **1705A.2.1.**
-	**19. WELDING:**			**1705A.2.5, Table 1705A.2.1 Items 4 & 5;** DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	SI	DSA IR 17-3.
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	Continuous	SI	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	Periodic	SI	**1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	c. Inspect welding of stairs and railing systems.	Periodic	SI	**1705A.2.1.** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3.
X	d. Verification of reinforcing steel weldability other than ASTM A706	Periodic	SI	**1705A.3.1**; verify carbon equivalent reported on mill certificates. AWS D1.4. DSA IR 17-3.
X	e. Inspect welding of reinforcing steel.	Continuous	SI	**1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8.** AWS D1.4. DSA IR 17-3.
-	**19.2 FIELD WELDING:**			
X	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	Continuous	SI	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	**Table 1705A.2.1 Item 5a.5.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	c. Inspect end-welded studs (ASTM A-108) installation (including bend test)	Periodic	SI	**2213A.2** (2212.6.2+); per AISC 360-10 (and AISC 341-10 as applicable), AWS D1.1. DSA IR 17-3.
X	d. Inspect floor and roof deck welds	Periodic	SI	**1705A.2.2, Table 1705A.2.1 Item 5a.6;** per AISC 360 (and AISC 341 as applicable) & AWS D1.3. DSA IR 17-3.
X	e. Inspect welding of structural cold-formed steel	Periodic	SI*	**1705A.2.5;** AWS D1.3. * May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
X	f. Inspect welding of stairs and railing systems	Periodic	SI*	**1705A.2.1;** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
X	g. Verification of reinforcing steel weldability	Periodic	SI	**1705A.3.1**; verify carbon equivalent reported on mill certificates. DSA IR 17-3.

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DSA-103 Revised 5/8/2019

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Revised:

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X	h. Inspect welding of reinforcing steel.	Continuous	SI	**1705A.3.1, Table 1705A.3 Item 2, and Table 1705A.2.1 Item 5b, 1903A.8.** AWS D1.4. DSA IR 17-3.
-	**20. NONDESTRUCTIVE TESTING:**			
X	a. Ultrasonic	Test	LOR	**1705A.2.1 & 1705A.2.5.** AISC 360-10 N5.5, AISC 341-10 J6.2. AWS D1.1, D1.8. ANSI/ASNT CP-189, SNT-TC-1A. DSA IR 17-2.
X	b. Magnetic Particle	Test	LOR	
-	**23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:**			
X	a. Anchor Bolts and Anchor Rods	Test	LOR	IR 17-11 Sample and test anchor bolts and anchor rods not readily identifiable.
X	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in IR 17-11
+	**WOOD**			
-	**OTHER**			

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INCREMENT #	1	DSA File No.:	
		Application No.:	01-017774
Date Submitted:	2019.07.23	Revised:	
		Revised:	

List of required verified report(s):

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
2 Structural Testing and Inspection: Laboratory Verified Report - Form DSA-291
3 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291
4 Post-Installed Anchors: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
5 Shop Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
6 Field Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
7 HS Bolt Installation Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or special inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI** – Indicates that the special inspection is to be performed by a project inspector
	SI – Indicates that the special inspection is to be performed by an appropriately qualified/approved special inspector

Michael B. Ross, AIA
Name of Architect or Engineer in general responsible charge

Kevin G. Zucco, SE
Name of Structural Engineer (When structural design has been delegated)

Kevin Zucco 2019.07.23
Signature of Architect or Structural Engineer date

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
APP. # **01-017774**

AC **N/A** F/LS **N/A** SS

DATE

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Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Exempt items given in IR A-22 or the 2016 CBC (including DSA amendments) and those items identified below with an "X" by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

Exempted by Design Prof.	Soils:
	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

Exempted by Design Prof.	Welding:
	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds cannot be ground flush.

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Date Submitted: 2019.07.23

Revised:

Revised:

	Concrete/Masonry:
	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
	7. Any support for exempt non-structural components given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) <= 4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

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INCREMENT # 2 | DSA File No.: | Application No.: 01-017774 | Date Submitted: 2019.07.29 | Revised: | Revised:

School Name	Hayward Fire Station #6 & Fire Training Center	District	

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Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE [1]	PERFORMED BY [2]	CODE REFERENCE AND NOTES
+	**SOILS (Indicate if project has geotechnical report):**			◉ Project has a geotechnical report, or CDs indicate soils special inspection is required by GE. ○ Project does NOT have and does NOT require a geotechnical report.
+	**CONCRETE**			Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13
+	**MASONRY**			TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5
+	**STEEL, ALUMINUM**			Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10
+	**WOOD**			
-	**OTHER**			
X	**26. LOAD TEST FOR IDENTIFIED PRODUCT(S): Solar Panel Support assembly**	Test	LOR	**1709A.2** and **1709A.3**. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
X	**27. Installation torque for PV clamp bolts**	Continuous	SI*	Calibrated wrench use required, verified by SI during installation. See details on sheets SS2.31 for torque requirements

+ In the CODE REFERENCE AND NOTES column indicates DSA-SS/CC sections that may be used by community colleges, per 2016 CBC Sec. 1.9.2.2.

DSA DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

DSA-103 Revised 5/8/2019

List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #	2	DSA File No.:	
Application No.:	01-017774		
Date Submitted:	2019.07.29	Revised:	
		Revised:	

List of required verified report(s):

1 Structural Testing and Inspection: Laboratory Verified Report - Form DSA-291

KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or special inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI** – Indicates that the special inspection is to be performed by a project inspector
	SI – Indicates that the special inspection is to be performed by an appropriately qualified/approved special inspector

Michael B. Ross, AIA
Name of Architect or Engineer in general responsible charge

Kevin G. Zucco, SE
Name of Structural Engineer (When structural design has been delegated)

Kevin Zucco 2019.07.29
Signature of Architect or Structural Engineer date

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
APP. # **01-017774**

AC **N/A** F/LS **N/A** SS _____

DATE _____

+ In the CODE REFERENCE AND NOTES column indicates DSA-SS/CC sections that may be used by community colleges, per 2016 CBC Sec. 1.9.2.2.

DSA DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

DSA-103 Revised 5/8/2019

List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #	2	DSA File No.:	
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		Revised:	

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Exempt items given in IR A-22 or the 2016 CBC (including DSA amendments) and those items identified below with an "X" by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

Exempted by Design Prof.	Soils:
	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

Exempted by Design Prof.	Welding:
	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds cannot be ground flush.

+ In the CODE REFERENCE AND NOTES column indicates DSA-SS/CC sections that may be used by community colleges, per 2016 CBC Sec. 1.9.2.2.

DSA DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

DSA-103 Revised 5/8/2019

List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT # 2

DSA File No.:

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Date Submitted: 2019.07.29

Revised:

Revised:

	Concrete/Masonry:	
	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."	
	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.	
	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.	
	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.	
	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.	

	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.	
	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).	
	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).	
	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).	
	7. Any support for exempt non-structural components given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) <= 4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.	

+ In the CODE REFERENCE AND NOTES column indicates DSA-SS/CC sections that may be used by community colleges, per 2016 CBC Sec. 1.9.2.2.