


ADDENDUM TO PROJECT BID DOCUMENTS

	ADDENDUM #02
	Project: Napa Valley College Project Bid Documents for General Contractors Wine Spectator Wine Education Center RFQ #TBD
	Date: April 12, 2024

Addendum # 02 – The following clarifications are provided and must be added/considered when completing your bid documents: Acknowledgement of receipt of this **ADDENDUM #02 as well as ADDENDUM #01** is required in your bid submittal. Please clearly note the addendum date and number.

ITEM A – Modifications to Supplemental Conditions

Number 3 – Time for Completion dates modified to include added dates of “Buildings vacated by owner”, “Site mobilization” and the updated date of “Construction completion”.

Number 4 – Liquidated damages date modified to include updated “Dates of Milestone”.

ITEM B – Extension of the RFI Question Period

RFI questioning period is officially extended to April 17th at 5:00 pm. Addendum #3 to follow the final round of RFI and questioning.

All follow up questions regarding Addendum 2 need to be clearly stated on which item or question is being addressed.

SUPPLEMENTAL CONDITIONS

1. **DIVISION 01 SPECIFICATION SECTIONS:**

Division 01 Sections of the Technical Specifications further defines the intent of the General Conditions and Supplemental Conditions, and specifies additional requirements including, but not limited to, general requirements; scope of work and special project procedures; contract modifications and payment procedures; project management and coordination; construction progress documentation; product submittal and substitution requirements and procedures; quality assurance and control; references and definitions; temporary facilities, utilities, controls and temporary signage; execution, cutting and patching and demolition; closeout procedures; project record documentation; operation and maintenance documentation; and demonstration and training requirements..

2. **AGREEMENT:**

The form of agreement which the successful bidder, as contractor, will be required to execute is included in the contract documents and should be carefully examined by the Bidder. The agreement and bonds shall be executed in two (2) original counterparts.

3. **TIME FOR COMPLETION:**

The starting date of the Contract shall be the day listed by the District in the Notice to Proceed.

Expected Project Schedule:

Notice of Award:	May 16, 2024
Notice to Proceed:	May 17, 2024
Buildings vacated by Owner:	May 24, 2024
Site mobilization:	May 28, 2024
Construction completion:	May 2, 2025 May 30, 2025

4. **LIQUIDATED DAMAGES:**

Time is of the essence in the performance of this Contract. Liquidated damages for Contractor's failure to complete the milestones and the Contract within the times fixed are established in the amounts of:

<u>DESCRIPTION OF MILESTONE</u>	<u>DATE OF MILESTONE</u>	<u>LIQUIDATED DAMAGES PER CALENDAR DAY FOR LATE COMPLETION</u>
a. Completion of work	May 2, 2025 May 30, 2025	\$1,000.00

5. **SCHEDULE CONSTRAINTS**

To minimize disruption to critical education activities, Contractor shall accommodate for the following schedule constraints, in addition to the Completion Date set forth in the Contract.

- a. Campus openings and first week of fall, spring, and summer sessions.
 - b. Housing move-ins and students returning to campus.
 - c. Early Learning Center – Pick Up / Drop Off hours.
 - d. Contractor will need to coordinate their work and their calendar with the NVC events and academic calendar. This is an ongoing task.
 - e. Normal construction hours are between 6:00 am and 5:30 pm.
6. CONTRACT SETS OF CONTRACT DOCUMENTS
The Architect will provide the Contractor access to digital files located on a web-based project information management system. Printed sets will not be provided.
7. PUBLIC LIABILITY INSURANCE
General Conditions, Article 11 “Insurance,” Section 11.c. shall be revised to include the Construction Manager, Architect, and the Project Inspector as additional insured on the Public Liability Insurance Policy.
8. INDEMNITY
General Conditions, Article 29 “Indemnity;” after the words “Construction Manager” add the words “Project Inspector;”
9. WARRANTY OF SUPPLIES, EQUIPMENT AND RELATED ADDITIONAL SERVICES
If the Contractor fails to carry out the responsibilities described in the General Conditions, Article 32, “Guarantee and Warranty” then the Contractor will also be solely responsible for the costs and charges incurred by the District’s Construction Managers, Architects, Engineers, Consultants and other representatives by failure to repair defects within the allotted time after receipt of written notification by the District.
10. SUBMITTALS
General Conditions, Article 26 “Submittals: Shop Drawings, Cuts and Samples;” Revise the quantity of shop drawings, brochures, and catalog cuts, to be submitted to be three (3).
11. MEANING OF TERMS
Terms indicated that have common and well-known technical or trade meanings, unless specifically defined otherwise in the Contract Documents, shall be interpreted in accordance with their common and well-known meanings.
12. FINAL COMPLETION
“Final Completion” shall be substituted for the term “Substantial Completion” as it occurs in the technical specifications.
13. ABNORMAL WEATHER CONDITIONS
If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating the weather conditions were abnormal for the period of time and could not have been reasonably anticipated, and that the weather conditions had an adverse effect on the critical path of the scheduled construction. A rain, windstorm, high water, or other natural phenomenon of the specific locality of the Work, which might reasonably be anticipated from historical records of the general locality of the Work, shall not be construed as abnormal. It is hereby agreed that rainfall greater than the following, when impacting activities on the critical path, cannot be reasonably anticipated:

- a. Daily rainfall equal to, or greater than, 1 inch during a month when the monthly rainfall exceeds the normal monthly average by 15% or more.
- b. Daily rainfall equal to, or greater than, the 5-year storm, 24-hour duration at any time.
- c. Source of Weather Information: Western Regional Weather Center:
<http://www.wrcc.dri.edu/summary/climsmnca.html>
- d. Project Location: Napa, California

END OF SUPPLEMENTAL CONDITIONS

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WINE EDUCATION CENTER NAPA VALLEY COLLEGE

ADDENDUM NUMBER 2

PROJECT ADDRESS
**2277 Napa Vallejo Hwy
Napa, CA 94558**

OWNER
NAPA VALLEY COLLEGE

DATE
APRIL 8, 2024

TLCD PROJECT NUMBER
21062.00

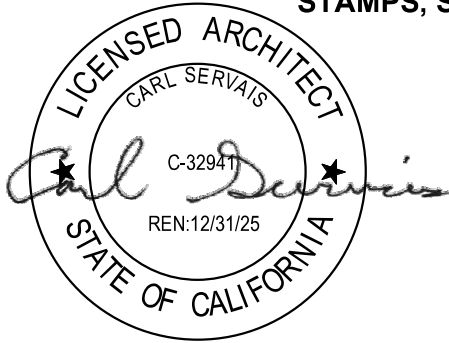
DSA APPLICATION NUMBER:
01-120890

Note: The following changes, modifications and additions to the Project Manual and Drawings described within this Addendum are made a part thereof and are subject to all of the requirements thereof as if originally specified.

ADDENDUM NUMBER 2
WINE EDUCATION CENTER
NAPA VALLEY COLLEGE
2277 Napa Vallejo Hwy
Napa, CA 94558

DSA APPLICATION #01-120890

STAMPS, SIGNATURES AND APPROVALS



ARCHITECT
Carl Servais
C32941

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ADDENDUM NUMBER 2

To the Plans and Specifications for:

**WINE EDUCATION CENTER
NAPA VALLEY COLLEGE**

DSA File No. 28-C1
DSA Application No. 01-120890

Date: April 8, 2024

RESPONSES TO BIDDER'S REQUESTS FOR INFORMATION (RFI'S)

Question 1: The RFQ mentioned that Phase 2 (Hospitality/Tasting Building) is not being bid at this time. However, the bid documents have integrated Phase 1 & Phase 2 drawings/details and does not mention anywhere that Phase 2 is not a part of the bid currently. Please clarify if Phase 2 is to be included at this time.

Response: *The current bid is for Phase 1 only. Do not include Phase 2 work in the Phase 1 bid. (TLCD)*

Question 2: 1. In paragraph 2.2-A of Section 084100, it states that the oldcastle series 6000 (2" X 6") is the basis of design. However, in paragraph G-1, the Kawneer 451T (2"X 4") system is mentioned. Additionally, on page A541 of the plan, it depicts a (2" X 4") system. Which system is basis of design?
2. In Section 084100 for Entrances and Storefronts, clear anodized finish is designated, while for Section 084420 for Curtain Wall, a Two-coat Kynar finish is indicated. Could you please confirm if this is correct?

Response: *Refer to Addendum 2 for clarifications. (TLCD)*

Question 3: The Demolition Asbestos/ Lead Survey prepared by FIT Environmental Services notes that no asbestos was found in the samples tested for both buildings that are to be demolished. However, the conclusion of their report states that "suspect asbestos containing materials (ACM) that were not sampled because they were outside the scope of this limited survey should be considered assumed to contain asbestos until rebutted by appropriate sampling and analysis." Please confirm that no asbestos abatement is to be included by the contractor at this time.

Response: *It is confirmed that no asbestos abatement is to be included by the contractor at this time. (Kitchell)*

Question 4: Subsection 3.1A in specification section 02 41 10 notes "Tanks: Remove tanks within construction area; pump out buried tanks located outside construction area, fill tanks with sand or fine gravel and cover with fill unless otherwise indicated." However, the demolition drawings do not show any tank demolition or removal. Please confirm there are no tanks that need to be demolished or pumped out.

Response: *Response will be included in a future Addendum. (TLCD)*

Question 5: Sub section 3.5 & 3.8 in specification section 32 12 16 - Asphalt Concrete Paving and Base calls for Tack Coat and Seal Coating of existing surfacing. However, the drawings do not show any location to get tack coat or seal coat. Please confirm no tack coat or seal coat is required on this project.

Response: *The proposed asphalt seal coat has been removed from the plans as a cost-saving measure. The plans were revised accordingly to reflect this change, and the specifications were not changed to eliminate the seal coat section. No seal coating is proposed for this project. (Brelje & Race)*

Question 6: Drawing note .034 on Sheet A-122 calls for 4'x8' dry erase whiteboard with tray. However, there are no specs available, please provide specs/ manufacturer/ model for these whiteboards

Response: *Refer to Addendum 2 for clarifications. (TLCD)*

Question 7: The Finish Schedule on sheet A-601 shows Room 106, 110 to have a "C-2" as floor finish. However, finish code list on sheet A-601 does not have a "C-2". Please provide missing specs & manufacturer information for finish type "C-2".

Response: *Refer to Addendum 2 for clarifications. (TLCD)*

Question 8: Section 11.b.2 in General Conditions notes the Contractor shall include in their bid costs builders risk insurance. Please advise if the policy should cover earthquakes and floods.

Response: *Response will be included in a future Addendum. (Kitchell)*

Question 9: Do the subcontractors need to be prequalified?

Response: *No, subcontractors do not need to be prequalified, only general contractors. (Kitchell)*

- Question 10:** 1. Finishes = Are we following the spec section in regards to Finishes? There are two type of finishes. Storefront finish = Clear Anodized per spec section 084100, Curtain wall finish = Painted/bright silver per spec section 084420. Sliding Door = Painted/bright silver per spec section 083540.
2. What is the finish for the aluminum door? Anodized or painted?
3. Per sheet A-601

Type H = Storefront or curtain wall? Exterior scope. There is no cut detail for this window.

Type J = Storefront or curtain wall? Interior scope. There is no cut detail for this window.

Type K = Storefront or curtain wall? Interior scope. There is no cut detail for this window.

Type Q = Storefront or curtain wall? Exterior scope. There is no cut detail for this window.

Type M = Storefront or curtain wall? Exterior scope. Head detail shows Curtain Wall per Sheet 15/A.541

Type N = Storefront or curtain wall? Exterior scope. Head detail shows Curtain Wall per Sheet 15/A.541

Type L = Storefront or curtain wall? Exterior scope. Head detail shows Curtain Wall per Sheet 15/A.541

Response: *Refer to Addendum 2 for clarifications for finishes.*

Regarding opening types - the openings are labelled on A-601 to match the intended systems. Window openings labelled STOREFRONT are specified in Section 08 41 00. Window openings labelled CURTAIN WALL are specified in section 08 44 20 (window type 4 is the only curtain wall). Doors (entrances) and door frames labelled STOREFRONT are specified in Section 08 41 00.

Details 15, 16 & 17/A-541 are clearly labelled as CURTAIN WALL in the details and are identified as CURTAIN WALL on 4/A-601. All remaining details on A-541 are clearly labelled as "08 41 00 ENTRANCES AND STOREFRONTS" where applicable. Windows L, M, N & P have jamb & sill detail tags that are clearly identified as STOREFRONT in the details on A-541. The head detail references clearly state "SIM" for a similar condition to the curtain wall detail referenced. Details 10 & 11 on A-541 are labelled "TYP INTERIOR STOREFRONT...", therefore, apply to STOREFRONT openings H, J, K and Q on A-601. (TLCD)

END OF BIDDER'S REQUEST FOR INFORMATION

CHANGES TO THE PROJECT MANUAL

- 1.1 CHANGE to specification Section 00 01 10 TABLE OF CONTENTS:
- A. ADD Section “10 11 00 VISUAL DISPLAY UNITS” to the TABLE OF CONTENTS.
- 1.2 CHANGES to specification 00 01 21 SUPPLEMENTAL CONDITIONS:
- A. ADD to part 3 – TIME FOR COMPLETION, Expected Project Schedule:
1. “Buildings vacated by Owner: May 24, 2024”
 2. “Site mobilization: May 28, 2024”
- B. CHANGE to part 3 – TIME FOR COMPLETION, Expected Project Schedule:
1. Construction Completion: from May 2, 2025 to: “May 30, 2025.”
- C. CHANGE to part 4.a – DESCRIPTION OF MILESTONES, Completion of Work:
1. Change date of Milestone from May 2, 2025 to “May 30, 2025.”
- 1.3 CHANGES to specification Section 01 40 00 QUALITY REQUIREMENTS:
- A. ADD the Division of the State Architect (reviewed and approved 10/25/2023) form DSA 103-22 “Listing of Structural Tests & Special Inspections, 2022 CBC” (20 pages) as an attachment to the end of the Section.
- B. ADD requirements to the following parts (Refer to specification Section attached):
1. Summary 1.1.A.1 through 7.
 2. Summary 1.1B.4
 3. Summary 1.1C.1.
 4. Definitions 1.2.G.1.
 5. Definitions 1.2.J.
 6. Definitions 1.1.K.
 7. “Attached form” at end of section.
- 1.4 CHANGE to specification Section 08 35 40 SLIDING ALUMINUM AND GLASS WALLS:
- A. CHANGE part 2.2.G.3 finish from Fluoropolymer system to: “Clear Anodized: Clear anodized coating conforming with NAAMM Metal Finishes Manual, Architectural Class I, 0.7 mil or greater.”
- 1.5 CHANGE to specification Section 08 41 00 ENTRANCES AND STOREFRONTS:
- A. CHANGE part 2.2.A.1 Basis of Design to: “Kawneer/Trifab VersaGlaze 451T Framing System.”

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- 1.6 CHANGE to specification Section 08 44 20 GLAZED CURTAIN WALL SYSTEMS
- A. CHANGE part 2.2.E.2 finish from High performance organic coating to: “Clear Anodized: Clear anodized coating conforming with NAAMM Metal Finishes Manual, Architectural Class I, 0.7 mil or greater.”
- 1.7 ADD specification Section 10 11 00 VISUAL DISPLAY UNITS to the Project Manual (Refer to specification Section attached).

CHANGES TO THE PROJECT DRAWINGS

- 1.8 CHANGE to drawings A601 – ROOM FINISH SCHEDULE – PHASE 1:
- A. CHANGE floor finish at rooms 106 and 110 from C-2 to C-1.

ATTACHMENTS

PROJECT MANUAL:

Note: Additions to attached specifications are identified in ***bold-Italic print.***

Deletions to attached specifications are identified in ~~gray strikethrough print.~~

00 01 10 Table of Contents
01 40 00 Quality Requirements with DSA 103-22
10 11 00 Visual Display Units

DRAWINGS:

None.

END OF ADDENDUM NUMBER 2

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SECTION 00 01 10

TABLE OF CONTENTS

**PROJECT MANUAL
INTRODUCTORY INFORMATION**

Document 00 01 10 Table of Contents

**PROCUREMENT AND CONTRACTING REQUIREMENTS
CONTRACTING REQUIREMENTS (Addendum 1)**

Document ~~00 72 00~~ ~~General Conditions (Addendum 1)~~
Construction Bid Documents (CCD)
Table of Contents
Notice Inviting Bids
Instructions to Bidders
Bid Proposal Form
Subcontractor List Form
Worker’s Compensation Certificate
Non-collusion Declaration
Bid Bond
Bidder’s Questionnaire
Contract
General Conditions
Notice of Award
Notice to Proceed
Performance Bond & Payment Bond
Iran Contracting Act Certificate
Compliance with Economic Sanctions Certification
~~00 73 00~~ ~~Supplementary Conditions (Addendum 1)~~
00 01 21 **Supplemental Conditions**
00 31 19 **Existing Condition Information**
00 31 32 **Geotechnical Data**

SPECIFICATIONS GROUP

DIVISION 01 – GENERAL REQUIREMENTS

Section 01 10 00 Summary of Work
 01 25 00 Substitution Procedures
 01 26 00 Contract Modification Procedures
 01 29 00 Payment Procedures
 01 31 00 Project Management and Coordination
 01 32 00 Construction Progress Documentation
 01 33 00 Submittal Procedures
 01 40 00 Quality Requirements
 01 42 00 References
 01 50 00 Temporary Facilities and Controls
 01 56 39 Temporary Tree and Plant Protection
 01 57 23 Temporary Stormwater Pollution Control
 01 60 00 Product Requirements

01 73 00	Execution
01 74 19	Construction Waste Management and Disposal
01 77 00	Closeout Procedures
01 78 23	Operation and Maintenance
01 78 39	Project Record Documents
01 79 00	Demonstration and Training
01 81 13	Sustainable Design Requirements - CALGreen Non-Residential Mandatory

DIVISION 02 – EXISTING CONDITIONS

Section	02 41 10	Structure Demolition
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DIVISION 03 – CONCRETE

Section	03 10 00	Concrete Forming and Accessories
	03 20 00	Concrete Reinforcing
	03 30 00	Cast-In-Place Concrete
	03 35 15	Sealed Concrete Flooring

DIVISION 04 – MASONRY

Not Used

DIVISION 05 – METALS

Section	05 12 00	Structural Steel Framing
	05 12 10	Architecturally Exposed Structural Steel
	05 50 00	Metal Fabrications
	05 70 00	Decorative Metal
	05 70 05	Landscape Metalwork

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

Section	06 10 00	Rough Carpentry
	06 17 33	Wood I-Joists
	06 20 00	Finish Carpentry
	06 40 00	Architectural Woodwork

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section	07 13 00	Sheet Waterproofing
	07 21 00	Thermal Insulation
	07 25 00	Weather-Resistive Barriers
	07 26 00	Below-Grade Vapor Retarder
	07 41 15	Manufactured Standing Seam Roofing
	07 46 20	Wood Siding
	07 46 50	GFRC Façade System
	07 54 25	Elastomeric TPO Membrane Roofing
	07 60 00	Flashing and Sheet Metal
	07 72 00	Roof Hatches
	07 84 00	Firestopping

07 90 00	Joint Sealants
07 95 00	Expansion Joint Cover Assemblies

DIVISION 08 – OPENINGS

Section	08 11 10	Hollow Metal Doors and Frames
	08 14 00	Wood Doors
	08 35 40	Sliding Aluminum and Glass Walls
	08 41 00	Entrances and Storefronts
	08 44 20	Glazed Curtain wall Systems
	08 71 00	Door Hardware
	08 71 15	Low Energy Door Operators
	08 80 00	Glazing

DIVISION 09 – FINISHES

Section	09 21 00	Gypsum Board Assemblies
	09 24 00	Portland Cement Plaster
	09 30 00	Tiling
	09 51 00	Acoustical Ceilings
	09 65 10	Resilient Base
	09 65 20	Resilient Tile Flooring
	09 65 25	Static Resistant Flooring
	09 68 10	Tile Carpeting
	09 77 30	Fiberglass Wall Panels
	09 90 00	Painting and Coating
	09 96 70	High Performance Coating

DIVISION 10 – SPECIALTIES

Section	10 11 00	Visual Display Units
	10 14 00	Signage
	10 21 00	Metal Toilet Compartments
	10 22 20	Operable Partitions
	10 28 00	Toilet Accessories
	10 44 00	Fire Extinguisher Cabinets
	10 56 10	Metal Storage Shelving

DIVISION 11 – EQUIPMENT

Section	11 31 00	Appliances
	11 53 13	Laboratory Fume Hoods
	11 53 43	Lab Sinks Mechanical Electrical Fixtures

DIVISION 12 – FURNISHINGS

Section	12 24 10	Electric Window Shades
	12 35 53	Laboratory Casework System and Accessories
	12 36 61	Solid Surfacing Countertops
	12 48 15	Recessed Entry Grilles

DIVISION 13 – SPECIAL CONSTRUCTION

Not used.

DIVISION 14 – CONVEYING EQUIPMENT

Not used.

DIVISION 21 – FIRE SUPPRESSION

Section 21 00 00 Fire Suppression

DIVISION 22 – PLUMBING

Section 22 00 00 Plumbing

DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING

Section 23 00 00 Mechanical

DIVISION 26 – ELECTRICAL

Section 26 05 00 Basic Electrical Requirements
 26 05 13 Medium Voltage Distribution
 26 08 00 Testing
 26 12 02 Three-Phase Padmounted Transformer
 26 24 00 Service and Distribution System
 26 27 00 Basic Electrical Materials and Methods
 26 31 01 Photovoltaic System
 26 32 01 Lithium Iron Phosphate Battery Storage
 26 51 01 Lighting
 26 56 01 Site Lighting
 26 57 00 Low Voltage Lighting Control Systems

DIVISION 27 – COMMUNICATIONS

Section 27 00 00 Telecommunications Systems
 27 51 03 Assisted Listening System

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

Section 28 31 00 Fire Alarm System with Voice Evacuation

DIVISION 31 – EARTHWORK

Section 31 10 00 Site Preparations
 31 10 01 Plant Protection
 31 20 00 Earthwork
 31 23 16 Trenching, Backfilling, Compaction

DIVISION 32 – EXTERIOR IMPROVEMENTS

Section 32 12 16 Asphalt Concrete Paving and Base
 32 12 23 Pavement Markings and Signs

32 13 12	Landscape Concrete
32 14 12	Concrete Unit Paving
32 16 00	Concrete Curb, Gutter and Sidewalk
32 17 26	Cast-In-Place Detectable/Tactile Warning Surfaces
32 31 14	Vinyl Coated Chain Link Fence & Gates
32 33 00	Site Furnishings
32 84 00	Irrigation
32 90 00	Planting

DIVISION 33 –UTILITIES

Section	33 11 00	Water Utility Distribution Piping
	33 30 00	Sanitary Sewerage Utilities
	33 40 00	Site Drainage

END OF SECTION

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SECTION 01 40 00

QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
1. ***Inspection of materials, products, fabrication and installation by DSA Field Representative.***
 2. ***Form DSA 103-22 "Listing of Structural Tests & Special Inspections, 2022 CBC".***
 3. ***Inspection of materials, products, fabrication and installation by Owner's Project Inspector of Record.***
 4. ***Testing of materials, products, fabrication and installation by Owner's Testing Agency.***
 5. ***Mock ups***
 6. ***Contractor's quality assurance and control services.***
 7. ***Other quality assurance and control services, as applicable.***
- B. Testing and inspection services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
1. Specific quality-assurance and quality-control requirements for individual work results are specified in their respective Specification Sections. Requirements in individual Sections may also cover production of standard products.
 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and quality-control procedures that facilitate compliance with the Contract Document requirements.
 3. Requirements for Contractor to provide quality-assurance and quality-control services required by Architect, Owner, Construction Manager, or authorities having jurisdiction are not limited by provisions of this Section.
 4. ***Testing shall comply with requirements of:***
 - 1) ***California Building Code, Title 24, Part 1, Chapter 4, Section 4-335.***
 - 2) ***Form DSA 103-22 "Listing of Structural Tests & Special Inspections, 2022 CBC", attached to this Section.***
 - 3) ***Requirements indicated in specification Sections Division 02 through 33.***
 - 4) ***Other requirements of authorities having jurisdiction.***
- C. Related Requirements:
1. ***Division 02 through 33 Sections for specific test and inspection requirements.***

1.2 DEFINITIONS

- A. Experienced: When used with an entity or individual, "experienced," unless otherwise further described, means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.
- B. Field Quality-Control Tests and Inspections: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- C. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, subcontractor, or sub-subcontractor, to perform a particular construction operation, including installation, erection, application, assembly, and similar operations.
 - 1. Use of trade-specific terminology in referring to a Work result does not require that certain construction activities specified apply exclusively to specific trade(s).
- D. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria. Unless otherwise indicated, copies of reports of tests or inspections performed for other than the Project do not meet this definition.
- E. Product Tests: Tests and inspections that are performed by a nationally recognized testing laboratory (NRTL) in accordance with 29 CFR 1910.7, by a testing agency accredited in accordance with NIST's National Voluntary Laboratory Accreditation Program (NVLAP), or by a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
- F. Source Quality-Control Tests and Inspections: Tests and inspections that are performed at the source (e.g., plant, mill, factory, or shop).
- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. The term "testing laboratory" has the same meaning as the term "testing agency."
 - 1. ***A laboratory facility accepted by the DSA through the DSA Laboratory Evaluation and Acceptance Program and approved for the project by the DSA, hired by the Owner.***
- H. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work, to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- I. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work, to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Contractor's quality-control services do not include contract administration activities performed by Architect or Construction Manager.
- J. ***DSA: Division of the State Architect; the governing agency having jurisdiction.***

- K. *PI: Project Inspector of Record; Inspector certified through the DSA Project Inspector certification program and approved for the project by the DSA, hired by the Owner.***

1.3 CONFLICTING REQUIREMENTS

- A. Conflicting Standards and Other Requirements: If compliance with two or more standards or requirements is specified and the standards or requirements establish different or conflicting requirements for minimum quantities or quality levels, inform the Architect regarding the conflict and obtain clarification prior to proceeding with the Work. Refer conflicting requirements that are different, but apparently equal, to Architect for clarification before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified is the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.4 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
1. Date of issue.
 2. Project title and number.
 3. Name, address, telephone number, and email address of testing agency.
 4. Dates and locations of samples and tests or inspections.
 5. Names of individuals making tests and inspections.
 6. Description of the Work and test and inspection method.
 7. Identification of product and Specification Section.
 8. Complete test or inspection data.
 9. Test and inspection results and an interpretation of test results.
 10. Record of temperature and weather conditions at time of sample-taking and testing and inspection.
 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 12. Name and signature of laboratory inspector.
 13. Recommendations on retesting and reinspecting.
- B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, telephone number, and email address of technical representative making report.
 2. Statement on condition of substrates and their acceptability for installation of product.

3. Statement that products at Project site comply with requirements.
 4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
 5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 6. Statement of whether conditions, products, and installation will affect warranty.
 7. Other required items indicated in individual Specification Sections.
- C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, telephone number, and email address of factory-authorized service representative making report.
 2. Statement that equipment complies with requirements.
 3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 4. Statement of whether conditions, products, and installation will affect warranty.
 5. Other required items indicated in individual Specification Sections.

1.5 QUALITY ASSURANCE

- A. Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units. As applicable, procure products from manufacturers able to meet qualification requirements, warranty requirements, and technical or factory-authorized service representative requirements.
- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, applying, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that is similar in material, design, and extent to those indicated for this Project.
- F. Specialists: Certain Specification Sections require that specific construction activities be performed by entities who are recognized experts in those operations. Specialists will satisfy qualification requirements indicated and engage in the activities indicated.

1. Requirements of authorities having jurisdiction supersede requirements for specialists.

- G. Testing and Inspecting Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspection indicated, as documented in accordance with ASTM E329, and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.

1.6 QUALITY CONTROL

- A. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities, whether specified or not, to verify and document that the Work complies with requirements.

1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
2. Engage a qualified testing agency to perform quality-control services.
 - a. Contractor will not employ same entity engaged by Owner, unless agreed to in writing by Owner.
3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspection will be performed.
4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
5. Testing and inspection requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.

- B. Testing Agency Responsibilities: Cooperate with Architect , Construction Manager, and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.

1. Notify Architect , Construction Manager, and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
2. Determine the locations from which test samples will be taken and in which in-situ tests are conducted.
3. Conduct and interpret tests and inspections, and state in each report whether tested and inspected Work complies with or deviates from requirements.
4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
6. Do not perform duties of Contractor.

- C. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and quality-control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspection.

1. Schedule times for tests, inspections, obtaining samples, and similar activities.
- D. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents. Coordinate and submit concurrently with Contractor's Construction Schedule. Update and submit with each Application for Payment.
1. Schedule Contents: Include tests, inspections, and quality-control services, including Contractor- and Owner-retained services, commissioning activities, and other Project-required services paid for by other entities.
 2. Distribution: Distribute schedule to Owner, Architect, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.7 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Owner will engage a qualified testing agency to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner, and as follows:
1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures, and reviewing the completeness and adequacy of those procedures to perform the Work.
 2. Notifying Architect, Construction Manager, and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
 3. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect, through Construction Manager, with copy to Contractor and to authorities having jurisdiction.
 4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
 5. Interpreting tests and inspections, and stating in each report whether tested and inspected Work complies with or deviates from the Contract Documents.
 6. Retesting and reinspecting corrected Work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
1. Date test or inspection was conducted.
 2. Description of the Work tested or inspected.
 3. Date test or inspection results were transmitted to Architect.

4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's, Commissioning Authority's, and Construction Manager's and authorities' having jurisdiction reference during normal working hours.
 1. Submit log at Project closeout as part of Project Record Documents.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspection, sample-taking, and similar services, repair damaged construction and restore substrates and finishes.
 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION

ATTACHED FORM (DSA reviewed and approved)

Division of the State Architect Form DSA 103-22 "Listing of Structural Tests & Special Inspections, 2022 CBC"

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 01-120890
 School Name: Napa Valley College
 DSA File Number: 28-C1
 Increment Number:

School District: Napa Valley Community College District
 Date Created: 2023-08-01 16:29:06

2022 CBC

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 (2022 CBC).

**** NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
<p>Continuous <input checked="" type="checkbox"/> Indicates that a continuous special inspection is required</p> <p>Periodic <input checked="" type="checkbox"/> Indicates that a periodic special inspection is required</p> <p>Test <input checked="" type="checkbox"/> Indicates that a test is required</p>	<p>GE (Geotechnical Engineer) <input checked="" type="checkbox"/> Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.</p> <p>LOR (Laboratory of Record) <input checked="" type="checkbox"/> Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.</p> <p>PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.</p> <p>SI (Special Inspection) <input checked="" type="checkbox"/> Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.</p>

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 01-120890	School Name: Napa Valley College	School District: Napa Valley Community College District
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Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by GE

S1. GENERAL:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify that: <input checked="" type="checkbox"/> Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. <input checked="" type="checkbox"/> Foundation excavations are extended to proper depth and have reached proper material. <input checked="" type="checkbox"/> Materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.)

S2. SOIL COMPACTION AND FILL:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
<input checked="" type="checkbox"/> 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 (end of this form) form 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.)
<input checked="" type="checkbox"/> c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) 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.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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S3. DRIVEN DEEP FOUNDATIONS (PILES):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.
<input type="checkbox"/>	c. Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	e. Steel piles.	Provide tests and inspections per STEEL section below.		
<input type="checkbox"/>	f. Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
<input type="checkbox"/>	g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):				
	Test or Special Inspection	Type	Performed By	Code References and Note
<input type="checkbox"/>	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 01-120890 DSA File Number: 28-C1	School Name: Napa Valley College Increment Number:	School District: Napa Valley Community College District Date Created: 2023-08-01 16:29:06
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Test or Special Inspection	Type	Performed By	Code References and Note
<input type="checkbox"/> b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
<input type="checkbox"/> c. Confirm adequate end strata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
<input type="checkbox"/> d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

S5. RETAINING WALLS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Placement, compaction and inspection of backfill.	Continuous	GE*	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above).
<input type="checkbox"/> b. Placement of soil reinforcement and/or drainage devices.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/> c. Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
<input checked="" type="checkbox"/> d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
<input type="checkbox"/> e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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S6. OTHER SOILS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	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 (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	b. Inspection of Soil Improvements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	c.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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 01-120890 Napa Valley College
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 28-C1

School District:
 Napa Valley Community College District
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C1. CAST-IN-PLACE CONCRETE				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
<input checked="" type="checkbox"/>	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
<input checked="" type="checkbox"/>	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 318-19 Sections 26.5 & 26.12.
<input checked="" type="checkbox"/>	d. Test concrete (f'_c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
<input checked="" type="checkbox"/>	e. Batch plant inspection: Continuous	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 IR 17-13. (See Appendix (end of this form) for exemptions.)
<input type="checkbox"/>	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3
<input type="checkbox"/>	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing.
<input type="checkbox"/>	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13.
<input type="checkbox"/>	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
<input type="checkbox"/>	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5
<input type="checkbox"/>	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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C4. SHOTCRETE (IN ADDITION TO SECTION C1):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16.
<input type="checkbox"/>	b. Sample and test shotcrete (f'_c).	Test	LOR	1908A.2, 1705A.3.9

C5. POST-INSTALLED ANCHORS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
<input checked="" type="checkbox"/>	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; RCSC 2014; AISI S100-20; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify identification of all materials and: <input checked="" type="checkbox"/> Mill certificates indicate material properties that comply with requirements. <input checked="" type="checkbox"/> Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a-3c, 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
<input checked="" type="checkbox"/>	b. Test unidentified materials	Test	LOR	2202A.1.
<input checked="" type="checkbox"/>	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/>	d. 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).
<input type="checkbox"/>	e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	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 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
<input checked="" type="checkbox"/>	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
<input checked="" type="checkbox"/>	c. Bearing-type (snug tight) connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
<input checked="" type="checkbox"/>	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * Continuous or Periodic depends on the tightening method used.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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S/A3. WELDING:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; 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; DSA IR 17-3.
<input checked="" type="checkbox"/>	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/>	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1-4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/>	b. Inspect single-pass fillet welds ≤ 5/16" floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/>	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
<input type="checkbox"/>	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
<input type="checkbox"/>	e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; RCSC 2014; AISI S100-20; AISI S100-20; AISC 360-16; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1 –4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/>	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
<input type="checkbox"/>	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
<input type="checkbox"/>	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
<input checked="" type="checkbox"/>	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
<input checked="" type="checkbox"/>	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
<input type="checkbox"/>	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
<input type="checkbox"/>	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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Test or Special Inspection	Type	Performed By	Code References and Notes
S/A6. NONDESTRUCTIVE TESTING:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
<input type="checkbox"/> b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
<input type="checkbox"/> c.	Test	LOR	

S/A7. STEEL JOISTS AND TRUSSES:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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Test or Special Inspection	Type	Performed By	Code References and Notes
S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.
<input type="checkbox"/> b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736
<input type="checkbox"/> c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605

S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
<input checked="" type="checkbox"/> b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

S/A10. STORAGE RACK SYSTEMS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7
<input type="checkbox"/> b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
<input type="checkbox"/>	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7; * May be performed by the project inspector when specifically approved by DSA.

S/A11. Other Steel				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Blind Fasteners	Periodic	SI	Table 1705A.2.1 Item 1c, 2213A.1; RSCS 2014 Section 7.2; DSA IR 17-8

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (WOOD), 2022 CBC 1705A.5, Table 1705A.5-7

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W1. PREFABRICATED WOOD TRUSSES:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect fabrication of manufactured open-web trusses.	Continuous	SI	1705A.5.6; DSA IR 23-8.
<input type="checkbox"/>	b. Inspect fabrication of manufactured metal-plate-connected trusses.	Continuous	SI	1705A.5.6, 1705A.5.7; DSA IR 23-4.

W2. MANUFACTURED WOOD STRUCTURAL ELEMENTS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect fabrication of structural glued-laminated timber.*	Continuous	SI	* See 1705A.5.5 for exceptions
<input type="checkbox"/>	b. Inspect fabrication of cross-laminated timber.	Continuous	SI	1705A.5.5
<input type="checkbox"/>	c. Inspect erection of mass timber.	Periodic	SI	Table 1705A.5.3, Item 2
<input type="checkbox"/>	d. Inspect mass timber connections with threaded fasteners, bolts, and/or adhesive anchors other than described in item e below. Inspect concealed mass timber connections.	Periodic	SI	Table 1705A.5.3, Items 3.1, 3.3, 3.4, 3.5. For threaded fasteners: Verify use of proper installation equipment. Verify use of pre-drilled holes where required. Inspect screws, including diameter, length, head type, spacing, installation angle, and depth.
<input type="checkbox"/>	e. Inspect mass timber connections with adhesive anchors installed in a horizontal or upward orientation.	Continuous	SI	Table 1705A.5.3, Item 3.2
<input type="checkbox"/>	f. Inspect application of sealants or adhesives applied to mass timber elements.	Periodic	SI	1705A.20

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (WOOD), 2022 CBC

1705A.5, Table 1705A.5.7

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W3. OTHER Wood:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a.			

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

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Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark 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.

	SOILS:
<input type="checkbox"/>	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a 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.
<input type="checkbox"/>	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.

	CONCRETE/MASONRY:
<input type="checkbox"/>	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
<input type="checkbox"/>	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.
<input type="checkbox"/>	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
<input type="checkbox"/>	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

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

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CONCRETE/MASONRY:	
<input type="checkbox"/>	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.

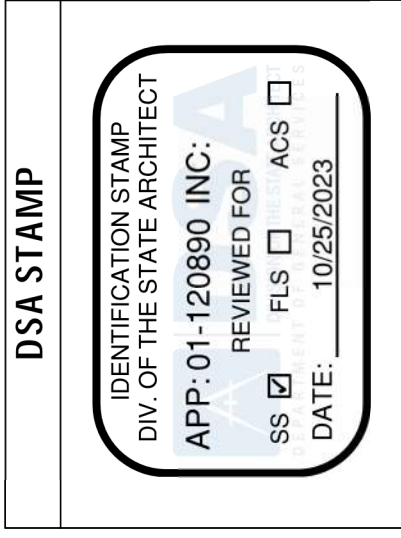
WELDING:	
<input type="checkbox"/>	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8' above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
<input type="checkbox"/>	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 shall not be ground flush.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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 Sections S/A3, S/A4 and/or S/A5 of listing above).
<input type="checkbox"/>	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 Sections S/A3, S/A4 and/or S/A5 of listing above).
<input type="checkbox"/>	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 sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
<input type="checkbox"/>	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, 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.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

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Date Created: 2023-08-01 16:29:06

Name of Architect or Engineer in general responsible charge:	
Name of Structural Engineer (When structural design has been delegated):	
Chris S. Warner	
Signature of Architect or Structural Engineer:	Date: 8/30/2023

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.



DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

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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. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

SECTION 10 11 00

VISUAL DISPLAY UNITS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Visual display board assemblies.
 - a. Magnetic dry erase boards with tray, eraser and markers.

1.2 ACTION SUBMITTALS

A. Product Data:

1. Visual display board assemblies.

B. Product Data Submittals: For each product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, finishes, and accessories for visual display units.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For each visual display unit, for tests performed by manufacturer and witnessed by a qualified testing agency.

C. Sample Warranties: For manufacturer's special warranties.

1.4 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For visual display units to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver factory-fabricated visual display units completely assembled in one piece. If dimensions exceed maximum manufactured unit size, or if unit size is impracticable to ship in one piece, provide two or more pieces with joints in locations indicated on approved Shop Drawings.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install visual display units until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work above ceilings is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

1.8 WARRANTY

- A. Special Warranty for Porcelain-Enamel Face Sheets: Manufacturer agrees to repair or replace porcelain-enamel face sheets that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Surfaces lose original writing and erasing qualities.
 - b. Surfaces exhibit crazing, cracking, or flaking.
 - 2. Warranty Period:
 - a. 50 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: 25 or less.
 - 2. Smoke-Developed Index: 50 or less.

2.2 VISUAL DISPLAY BOARD ASSEMBLIES

- A. Basis of Design: GMI Companies, Ghent, M1 Series.
- B. Visual Display Board Assembly: factory fabricated.
 - 1. Assembly: Magnetic porcelain coated markerboard.
 - 2. Corners: Square.

3. Width: As indicated on Drawings.
4. Height: As indicated on Drawings.
5. Mounting Method: Direct to wall.

C. Markerboard Panel: Porcelain-enamel-faced markerboard panel on core indicated.

1. Color: White.

D. Aluminum Frames and Trim: Fabricated from not less than 0.062-inch-thick, extruded aluminum; standard size and shape.

1. Aluminum Finish: Clear anodic finish.

E. Joints: Make joints only where total length exceeds maximum manufactured length. Fabricate with minimum number of joints,.

F. Chalktray: Manufacturer's standard; continuous.

1. Solid Type: Extruded aluminum with ribbed section and smoothly curved exposed ends.

2.3 MARKERBOARD PANELS

A. Porcelain-Enamel Markerboard Panels: Balanced, high-pressure, factory-laminated markerboard assembly of three-ply construction, consisting of moisture-barrier backing, core material, and porcelain-enamel face sheet with high-gloss finish. Laminate panels under heat and pressure with manufacturer's standard, flexible waterproof adhesive.

1. Face Sheet Thickness: 0.015 inch uncoated base metal thickness.
2. Fiberboard Core: 3/8 inch thick; with 0.015-inch-thick, aluminum plated polyester sheet backing.
3. Laminating Adhesive: Manufacturer's standard moisture-resistant thermoplastic type.

2.4 MATERIALS

A. Porcelain-Enamel Face Sheet: PEI-1002, with face sheet manufacturer's standard two- or three-coat process.

B. Fiberboard: ASTM C208 cellulosic fiber insulating board.

C. Extruded Aluminum: ASTM B221, Alloy 6063.

2.5 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM/NOMMA AMP 500 for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

- C. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.6 ALUMINUM FINISHES

- A. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.

2.7 ACCESSORIES

- A. Erasers: Manufacturer's standard dry eraser unit. Provide (1) eraser per display unit.
- B. Markers: Provide manufacturer recommended dry erase pens. (3) colors: Black, Blue and Red. (1) set of markers per display unit.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances, surface conditions of wall, and other conditions affecting performance of the Work.
- B. Examine walls and partitions for proper preparation and backing for visual display units.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions for surface preparation.
- B. Clean substrates of substances, such as dirt, mold, and mildew, that could impair the performance of and affect the smooth, finished surfaces of visual display boards.

3.3 INSTALLATION

- A. General: Install visual display surfaces in locations and at mounting heights indicated on Drawings, or if not indicated, at heights indicated below. Keep perimeter lines straight, level, and plumb. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim, and accessories necessary for complete installation.

3.4 CLEANING AND PROTECTION

- A. Clean visual display units in accordance with manufacturer's written instructions. Attach one removable cleaning instructions label to visual display unit in each room.

- B. Touch up factory-applied finishes to restore damaged or soiled areas.
- C. Cover and protect visual display units after installation and cleaning.

END OF SECTION

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