IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120551 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/11/2021

DSA

DSA/SS Form 103B-ss (Rev. 10/2016)

List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #: | DSA File No.: | Application No.: | Date Submitted: | Revised: | Revised:

Owner Name | Owner

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required by the 2016 California Building Code. The tests and inspections listed 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 requirements are detailed in the approved DSA plans and specifications. The box located 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, and miscellaneous structural steel and ornamental metal. See CBC 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 lines. Enter appropriate information in the blank spaces. Add lines to the bottom of the form as required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that text. Note: A minus (-) on a category or subcategory indicates that no lines are hidden. Click on a minus sign and only the first line should remain. Click on the "CLEAR FIELD" button to show only the fields 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.

	TEST OR SPECIAL INSPECTION	Test	Inspection	CODE REFERENCE AND NOTES
-	SOILS:			
-	1. GENERAL	Table 1705A.6		
	a. Verify that: - site has been prepared properly prior to placement of controlled fill, foundation concrete or slabs-on-grade; - Excavation bottoms are exposed to proper depth and have reached proper material, and; - Allowable bearing pressure and pile tips are adequate to achieve the design bearing capacity.	Periodic	OR*	*By geotechnical engineer or his or her qualified representative.
-	4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS)	Table 1705A.9		
X	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	OR*	*By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
X	b. Confirm pier locations, diameters, depths/bore, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable) prior to placing concrete.	Continuous	OR*	*By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	CONCRETE	Table 1705A.3, ACI 318-14: Sections 26.13 & 26.12		
-	7. CAST IN PLACE CONCRETE			
	Material Verification and Testing			
X	a. Verify use of required design mix.	Periodic	SI*	Table 1705A.3 Item 6, 1913A.1, CBSC 2.3A) * To be performed by qualified batch-plant inspector and concrete sampling technician
X	b. Identify, sample, and test reinforcing steel.	Test	LOR	1913A.2 [1909.2.4+], ACI 318-14 Section 26.6.1.2, CBA IR 17-16
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
-	STEEL, ALUMINUM	Table 1705A.2.1, AISC 360-16, AISC 341-16, AISC 358-16, AWS D1.8/D1.8M:2016		
-	11. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Material Verification			
X	a. Identify mill test reports of all materials and - Mill certificates indicate material properties that comply with requirements, - Materials, sizes, grades and grades comply with requirements.	Periodic	*	2308A.1 (2203.1+), Table 1705A.2.1 Item 5a Div. AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S240-12 Section A3, AISI S220-11 Section A4. *By special inspector or qualified technician when performed offsite.
X	b. Test unidentified materials	Test	LOR	2308A.1.3 [2203.1+]
	Inspection			
	a. Wall panels			Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4)
X	b. Verify and document steel fabrication per DSA approved construction documents.	Periodic	SI	
	19. WELDING:			1705A.2.5, Table 1705A.2.1 Items 4 & 5, DSA IR 17-5, AWS D1.1 and AWS D1.8. for structural steel, AWS D1.3 for sheet steel, AWS D1.2 for aluminum, AWS D1.6 for stainless steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc.			
X	a. Verify weld filler material identification: mark/tags per AWS specification and certificates of conformance to match the AWPS.	Periodic	SI	DSA IR 17-5.
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-5.
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-5.
	19-1 SHOP WELDING			
X	a. Inspect groove welds: multi-pass filler welds, single pass final welds ≤ 5/16", plug and slot welds	Continuous	SI	Table 1705A.2.1 Item 5c1-4. For AISC 358-10 (and AISC 341-10 as applicable): DSA IR 17-5
X	b. Inspect single-pass final welds ≥ 5/16", floor and roof deck welds	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a(f & 5a-h. For AISC 358-10 (and AISC 341-10 as applicable): DSA IR 17-5
	19-2 FIELD WELDING			
X	a. Inspect groove welds: multi-pass filler welds, single pass final welds ≤ 5/16", plug and slot welds	Continuous	SI	Table 1705A.2.1 Item 5c1-4. For AISC 358-10 (and AISC 341-10 as applicable): DSA IR 17-5
X	b. Inspect single-pass fillet welds ≤ 5/16"	Random	SI	Table 1705A.2.1 Item 5c.7. For AISC 358-10 (and AISC 341-10 as applicable): DSA IR 17-5

KEY to Columns	
1 - Type:	2 - Performed By:
Continuous - Indicates that a continuous special inspection is required	SI - 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	OR - Indicates that the special inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test - Indicates that a test is required	In - Indicates that the special inspection is to be performed by a special inspector

COMPILE | PRINT

Name of Architect or engineer in general responsible charge

Name of structural engineer (Enter if structural design has been delegated)

Signature of Architect or Structural Engineer | date

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. #
AC__NA____ FLS__NA__ SS_____
DATE

STRUCTURAL TEST AND INSPECTIONS

SHEET 1: PC-2 TITLE PAGE.
SHEET 2: PC SIGN MOUNTING DETAILS 1.
SHEET 3: PC SIGN MOUNTING DETAILS 2.
~~SHEET 4: PC SIGN MOUNTING DETAILS 3.~~
~~SHEET 5: PC-2 25'-0" WIDE ELEVATION, WIND SPEED 130 MPH.~~
SHEET 6: PC-2 25'-0" WIDE ELEVATION, WIND SPEED 110 MPH.

DRAWING INDEX

CHECKLIST OF DESIGN PARAMETERS:

- RISK CATEGORY: II
- WIND SPEED: 110 MPH FOR SIGNS DEPICTED ON SHEET 6, 130 MPH FOR SIGNS DEPICTED ON SHEET 5.
- ALL CONNECTIONS AND MOUNTING DETAILS DESIGNED FOR 130MPH.
- EXPOSURE: C
- Kzt = 1.0, Kd = 0.85, g = 0.85
- SEISMIC DESIGN CATEGORY: E
- SEISMIC IMPORTANCE FACTOR: 1.0
- SITE CLASS: D
- Sx: 3.00
- S1: 1.50
- SDS: 2.0
- SD1: 1.50
- Cs: 0.67
- IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THIS PC ARE STILL APPLICABLE.
- GEOHAZARD REPORTS ARE NOT REQUIRED FOR NON-BUILDING FREESTANDING SIGN AND SCOREBOARD STRUCTURES. REF. IR A-4.13
- CUT SHEETS FOR MANUFACTURED EQUIPMENT ARE REQUIRED.
- THERE ARE NO APPLICABLE FIRE, LIFE SAFETY, OR ENERGY/CLIMATE DESIGN PARAMETERS.

GENERAL / CODE INFORMATION

SCOPE: CONSTRUCTION OF 2- OR 3-COLUMN STRUCTURES FOR USE WITH DAKTRONICS SIGNS.

INSPECTOR OF RECORD, CLASS 3

PRECHECK DRAWING CHANGES:
CHANGES IN THE PLANS AND SPECIFICATION SHALL BE MADE BY REVISION DOCUMENTS APPROVED BY DSA. (2016 CALIFORNIA ADMINISTRATIVE CODE SECTION 4-338)

SITE SPECIFIC ARCHITECTURAL DRAWING CHANGES:
ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) CHANGES TO THE APPROVED DRAWING AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF STATE ARCHITECTS, AS REQUIRED BY SECTION 4-338 PART 1 TITLE 24 CCR.

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT, OWNER AND APPROVED BY THE DIVISION OF STATE ARCHITECTS SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK, THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CODE.

TITLE 24 CODES

2016 CALIFORNIA ADMINISTRATIVE CODE (CAC)..... (PART 1, TITLE 24 CCR)
2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2..... (PART 2, TITLE 24 CCR)
(2015 INTERNATIONAL BUILDING CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE..... (PART 3, TITLE 24 CCR)
(2014 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC)..... (PART 4, TITLE 24 CCR)
(2015 UNIFORM MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE..... (PART 5, TITLE 24 CCR)
(2015 UNIFORM PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE..... (PART 6, TITLE 24 CCR)
2016 CALIFORNIA FIRE CODE (CFC)..... (PART 9, TITLE 24 CCR)
(2015 INTERNATIONAL FIRE CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE..... (PART 11, TITLE 24 CCR)
2016 CALIFORNIA REFERENCED STANDARDS CODE..... (PART 12, TITLE 24 CCR)
NFPA 13 - 2016
NFPA 72 - 2016

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS
2016 CBC, CHAPTER 35
2016 CFC, CHAPTER 45

GENERAL REQUIREMENTS
THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS.
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECTS, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECTS SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR CLASS 3 INSPECTOR.

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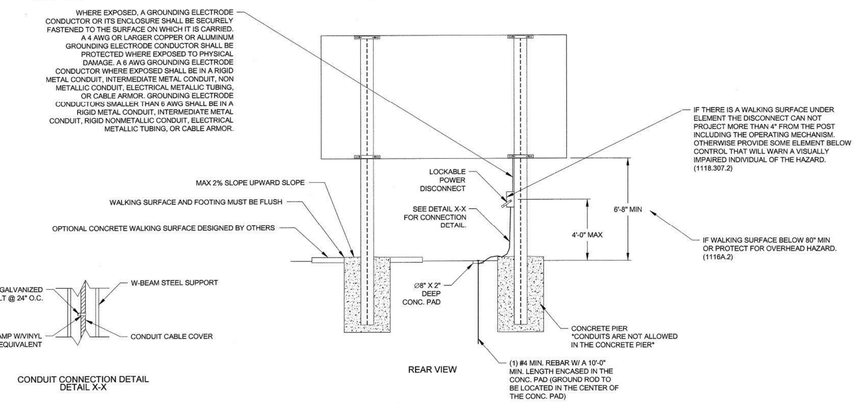
DSA – SAN DIEGO



NOTE:

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE CALIFORNIA ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

GROUNDING DETAIL

ALUMINUM: ALL ALUMINUM MEMBER GRADE 6061-T6 (UNLESS NOTED OTHERWISE)
CORROSION RESISTANT MATERIAL SHALL BE PROVIDED BETWEEN FERROUS METAL (STEEL) AND NON-FERROUS METAL (ALUMINUM).

STEEL: DESIGN AND FABRICATION IN ACCORDANCE WITH AISC-ASD, 14th ADDITION.
WIDE FLANGE SHAPES ASTM A992, Fy = 50 KSI
BOLTS SS304 F593C CW1. Fu=100 KSI OR A325 WITH CORROSION-PREVENTITIVE COATING THAT DEMONSTRATED NO MORE THAN 2% RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT AND GALVANIZED HARDWARE IS NOT COMPATIBLE WITH MANUFACTURED EQUIPMENT.
REINFORCING STEEL ASTM 615, GRADE 60
HSS SHAPES ASTM A500 GR B, Fy=46 ksi
STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153 CLASS D, AS APPLICABLE) OR PAINTED WITH ZINC RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM.

WELDING: DESIGN AND FABRICATION ACCORDING TO AWS D1.1, CURRENT EDITION, AWS CERTIFICATION REQUIRED OF ALL STRUCTURAL WELDERS.
E70XX ELECTRODES FOR SMAW PROCESSES
F7X-EXXX ELECTRODES FOR SAW PROCESSES
PROVIDE PERIODIC SPECIAL INSPECTION FOR FIELD WELDING PER 2016 CBC, TABLE 1705A.2.1.

CONCRETE: DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-14.
TYPE V CEMENT, MAXIMUM WATER-TO-CEMENT RATIO = 0.45
COMPRESSIVE STRENGTH AT 28 DAYS (f'c) = 4500 PSI, MIN (DESIGN BASED ON f'c = 3000 PSI)
CONTINUOUS BATCH PLANT INSPECTION NOT REQUIRED.
PROVIDE SLOPE AWAY FROM BASE OF SUPPORTS.
CONCRETE POURED INTO CONSTRAINED EARTH EXCAVATIONS MUST CURE UNDER PROPER CONDITIONS FOR 4 DAYS PRIOR TO SIGN CABINET INSTALLATION.
EXCEPTION: IF THE OVERALL HEIGHT OF THE SIGN IS LESS THAN 20 FEET ABOVE GRADE AND THE SIGN POLE IS ADEQUATELY BRACED AGAINST WIND LOADS FOR A MINIMUM OF 4 DAYS, THE SIGN CABINET MAY BE INSTALLED THE SAME DAY THE FOOTING IS POURED.

SOILS: SOIL PASSIVE PRESSURE BASED ON 2016 CBC TABLE 1806.A.2 CLASS 5. INSPECTOR OF RECORD (IR) SHALL PROVIDE INSPECTION OF SOILS PER TEST AND INSPECTION FORM DSA-103. (IF SOFT OR SANDY SOIL, COLLAPSING OR UNSTABLE SOIL, CORROSIVE SOIL, ORGANIC MATERIALS OR GROUNDWATER ARE ENCOUNTERED, IMMEDIATELY CONTACT THE ENGINEER OF RECORD FOR ADDITIONAL FOUNDATION REQUIREMENTS.)

TESTING & QUALITY CONTROL:

UNLESS NOTED OTHERWISE, CONCRETE MATERIALS SHALL CONFORM TO CHAPTER 19A. SPECIAL INSPECTIONS AND TESTS SHALL BE REQUIRED PER TABLE 1705A.3. FOUNDATION INSPECTION SHALL BE REQUIRED PER 1803A.5.5. STEEL SPECIAL INSPECTION AND TESTS SHALL BE REQUIRED PER TABLE 1705A.2.1.

NOTES: SIGN CABINETRY SHALL BE FABRICATED IN THE SHOP OF AN APPROVED FABRICATOR
PROVIDE ISOLATION OF DISSIMILAR MATERIALS.

DAKTRONICS HAS DESIGNED THE DISPLAY COMPONENTS AND THEIR MOUNTING PER CBC 2016 AND THEY ARE IN COMPLIANCE WITH THE CURRENT CODES.

CONSTRUCTION SPECIFICATIONS

PRE-CHECK (PC) DOCUMENT

CODE: 2016 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
Roger T. Ailworth, S.E.
9138 S. State Street, Suite 101 (801) 990-1775
Sandy, Utah 84070 (801) 990-1776 FAX

VECTOR ENGINEERS
9138 S. State Street, Suite 101 (801) 990-1775
Sandy, Utah 84070 (801) 990-1776 Fax
PRO-2017.8-121039-407-L71

REGISTERED PROFESSIONAL ENGINEER ROGER T. AILWORTH S3914 STRUCTURAL STATE OF CALIFORNIA

03/08/2017

STRUCTURAL ENGINEER OF RECORD

APPROVALS

715512-1-0

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 116017
ACS JL FLS RE SS DW
DATE NOV 30 2017
FLS: R. FERRER
ACS: R. MULLEN
SS: D. WANG

REV	DATE	REVISED DRAWING PER DSA COMMENTS MADE ON 14 JUL 17.	BY
01	19 OCT 17		SAS

DAKTRONICS

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NON-SHALE PRODUCTION

PROJECT:	2016 DSA PRE-CHECK DRAWINGS
TITLE:	PC-2 TITLE PAGE
DATE:	20 FEB 17
SCALE:	1/4" = 1'-0"
DESIGN:	SEASTMA
DRAWN:	SEASTMA
DIM UNITS:	INCHES [MILLIMETERS]
	DO NOT SCALE DRAWING
JOB NO:	P2015-01
SIZE:	F - 10 - D
SHEET	1
REV	01

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