



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

*This program is prepared and submitted for an OSHPD 1 project. OSHPD 1 projects include all construction and remodel projects for: general acute care hospitals, acute psychiatric hospitals, and general acute care hospitals providing only acute medical rehabilitation center services (CBC 1224.1).*

SECTION A		PROJECT INFORMATION	
<b>Facility #:</b>	<b>Facility Name:</b>		<b>Project #:</b>
<b>Street Address:</b>			
<b>City:</b>		<b>County:</b>	
<b>Record Name (Scope of Project):</b>			
Abbreviations: CAC: California Administrative Code                      AAMA: American Architectural Manufacturers Association CBC: California Building Code                              NFPA: National Fire Protection Association CEC: California Electrical Code                            FM: FM Approval Standards CMC: California Mechanical Code                        DPOR: Design Professional of Record CPC: California Plumbing Code			
			Version: R26.1
<b>Testing, Inspection, and Observation Stages</b>			
<b>Stage No.</b>	<b>Stage Name</b>	<b>Stage Scope / Description</b>	
1			
<b>DESIGN PROFESSIONAL OF RECORD RESPONSIBILITY</b>			
<p><b><u>The administration of the work of construction, including this TIO, shall be under the responsible charge of an architect and structural engineer. When a structural engineer is not substantially involved, the architect shall be solely responsible. Where neither structural nor architectural elements are substantially involved, a mechanical or electrical engineer registered in the branch of engineering most applicable to the project may be in responsible charge. (CAC 7-141(a))</u></b></p> <p><i>Note: HCAI plan review staff must provide verification that the TIO program has been "Reviewed" prior to plan approval to confirm the applicability of the tests and inspections identified in the TIO program for work scope, building systems, and the construction materials shown in the design drawings. Field staff will issue subsequent "TIO Program Approval".</i></p> <p><i>The "TIO Program Approval" from HCAI field staff must be obtained and included with the notice of start of construction required by CAC Section 7-137(a)4 and 7-145(a)5.A)</i></p> <p><i>Construction shall not commence until the health facility has obtained from HCAI "TIO Program Approval". (CAC Section 7-135(a)3)</i></p>			



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<b>Structural</b>							
<b>Foundation</b>							
B-F1		<b>Soil fill</b> CBC 1705A.6 Fill material acceptance test					
B-F2		<b>Soil fill</b> CBC 1705A.6 Compaction test					
B-F3		<b>Soil and rock anchors</b> CBC 1811A Load test					
B-F4		<b>Deep foundation elements</b> CBC 1810A.3.1.5.1, 1810A.3.3.1.2, 1810A.3.3.1.5, 1810A.3.3.2, & 1810A.3.10.4 Load test					
B-F5		<b>Shoring</b> CBC 1812A Tie-Back Anchors					
B-F6		<b>Vibro Stone Columns (VSC)</b> CBC 1813A Acceptance Test					
<b>Concrete</b>							
B-C1		<b>Concrete Mix Components</b> CBC 1705A.3, 1903A.6 & 1910A.1; ACI 318 1.9.1 & 26.4.1.1 Cementitious materials					
B-C2		<b>Concrete Mix Components</b> CBC 1705A.3, 1903A.5; ACI 318 1.9.1 & 26.4.1.2 Aggregates/Reactive aggregates					
B-C3		<b>Concrete Mix Components</b> CBC 1705A.3; ACI 318 26.4.1.4; ASTM C1602 Water					
B-C4		<b>Concrete Strength Test</b> CBC 1705A.3 & 1905A.1.17; ACI 318 26.12 Strength test for concrete and high-strength grout					
B-C5		<b>Cast-In Components</b> CBC 1705A.3 & 1910A.2; ACI 318 20.2, 25.4.5.1 & 26.6.1.2 Metal reinforcement (including welded wire fabric and headed rebar)					
B-C6		<b>Cast-In Components</b> CBC 1705A.3, 1901A.3; ACI 318 20.4 Headed studs and headed stud assemblies					
B-C7		<b>Cast-In Components</b> CBC Table 1705A.3, 1903A.8 Weldability of reinforcing bars					
B-C8		<b>Prestressed Concrete</b> CBC 1705A.3 & 1910A.3; ACI 318 20.3, 25.8 & 26.6.1.2 Prestressing tendons and anchorage					
B-C9		<b>Strengthening and Repair</b> CBC 1911A.2; ACI 503.7 Crack repair by epoxy injection					
B-C10		<b>Strengthening and Repair</b> CBC 1911A.3; ICC-ES AC 178 Sect 9 Strengthening by externally bonded FRP					



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B-C11		<b>Shotcrete</b> CBC 1705A.3.9.2 & 1908A.2 Preconstruction test					
B-C12		<b>Shotcrete</b> CBC 1705A.3.9 & 1908A.2 Strength test					
B-C13		<b>Post-installed anchors</b> CBC 1910A.5 Installation verification test (includes adhesive, shot pins and mechanical anchors)					
B-C14		<b>Existing Post-Installed Anchors</b> CBC 1708A and CAC Ch 6, Sect 11.3 In-situ load tests					
<b>Masonry</b>							
B-MA1		<b>Mortar and Grout</b> CBC 2105A.3 Mortar test					
B-MA2		<b>Mortar and Grout</b> CBC 2105A.3 Grout test					
B-MA3		<b>Masonry Strength Test</b> CBC 2105A.2; TMS 602 1.4.B.3 Compressive strength prism test (f'm)					
B-MA4		<b>Masonry Strength Test</b> CBC 2105A.4 Core tests of masonry wall samples					
B-MA5		<b>Post-Installed Anchors in Masonry</b> CBC 1705A.4 Installation verification test					
B-MA6		<b>Veneer</b> CBC 1410.2 Veneer bond strength test					
B-MA7		<b>Architectural Cast Stone</b> CBC 2103A.1; ASTM C1354 Strength of stone anchorage					
<b>Steel</b>							
B-S1		<b>Steel Identification</b> CBC Table 1705A.2.1 & 2202A.1 Testing of unidentified steel or identification test for structural steel and cold formed steel					
B-S2		<b>Steel Components</b> CBC 2213A.1 & 1705A.2.6 High strength bolts, nuts, and washers					
B-S3		<b>Steel Components</b> CBC 2213A.2 & 1705A.2.5 End-welded studs					
B-S4		<b>Welds</b> CBC 1705A.2.5 Nondestructive testing of welds					
B-S5		<b>Seismic Force Resisting System</b> CBC 2205A.4 & 1705A.14.1 Nondestructive tests for seismic resistance					
<b>Other Structural Materials</b>							
B-OM1		<b>Aluminum</b> CBC 2003.1 Testing					



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B-OM2		<b>Structural Sealant Glazing</b> CBC 2410.1.2; AAMA 501.4; AAMA 501.6 Exterior glass curtain walls tests					
B-OM3		<b>Thermal Barriers in Aluminum Mullion Systems</b> CBC 2411.1.2 Testing of thermal barriers					
<b>Alternative Systems</b>							
B-AS1		<b>Seismic Isolation System</b> CBC 1705A.14.4 Prototype and production test					
B-AS2		<b>Seismic Damping System</b> CBC 1705A.14.4 Prototype and production test					
B-AS3		<b>Structural Design Criteria</b> CBC 104.11.2 Tests to support alternative system					
B-AS4		<b>Wind Tunnel Testing</b> CBC 1609A.1.1; ASCE 7 31.4 & 31.5; ASCE 49 Wind tunnel testing					
<b>Nonstructural Components, Supports and Attachments</b>							
B-N1		<b>Special Seismic Certification</b> CBC 1705A.14.3 Shake table test					
<b>User Defined Structural Tests</b>							
B-SU01							
B-SU02							
<b>Architectural</b>							
<b>Radiation Shielding Barriers</b>							
B-AT1		<b>Radiation shielding barrier test</b> CBC 1705A.1.1 and 3102C					
<b>User Defined Architectural Tests</b>							
B-AU01							
B-AU02							
<b>Mechanical</b>							
<b>Ventilation and Pressurization</b>							
B-ME1		<b>Listed Hood Assemblies</b> CMC 508.2					
B-ME2		<b>Type I Hood Capture and Containment Test</b> CMC 511.2.2.2					
B-ME3		<b>Commercial Kitchen Hood Ventilation</b> CMC 511.2.2.1 Performance test					



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B-ME10		<b>Pre-Demolition Air Balance</b> CMC 407.3.1 Air balance test and report					
B-ME11		<b>Post-Demolition Air Balance</b> CMC 407.3.1 Air balance test and report					
B-ME12		<b>Ventilation System Air Balance</b> CMC 407.3.1, Table 4-A Areas tested and balanced					
B-ME13		<b>Infection Control Planning and Protection</b> ASHRAE 170-2013 8.4 Infection control risk assessment and protection procedure development					
B-ME14		<b>Duct Leakage Test</b> CMC 603.9.2 SMACNA HVAC air duct leakage test					
B-ME15		<b>Airborne Infection Isolation Rooms and Protective Environment Rooms</b> CMC 416.4 Alarm system test					
B-ME16		<b>Airborne Infection Isolation Rooms and Protective Environment Rooms</b> CMC 417.0 Mechanical system tested and balanced					
<b>Refrigeration Machinery</b>							
B-ME4		<b>Refrigeration Equipment</b> CMC 1116.0					
B-ME5		<b>Refrigeration Detection and Alarm System</b> CMC 1108.4 & CFC 608.7 Acceptance testing					
B-ME6		<b>Refrigeration Flaring System</b> CMC 1114.3 Safety and effectiveness					
<b>Boilers/Piping</b>							
B-ME7		<b>Steam and Hot Water Boilers</b> CMC 1013.0					
B-ME8		<b>Hydronics</b> CMC 1205.2, 1220.4.6 & 1221.3 Pressure test of steam and water piping					
B-ME9		<b>Process Piping</b> CMC 1405.2.2 Pressure test					
<b>User Defined Mechanical Tests</b>							
B-MU01							
B-MU02							
<b>Electrical</b>							
<b>Service and Feeders 1000A or More</b>							



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B-E1		Ground Fault Protection of Equipment CEC 230.95(C) & 517.17(D)					
<b>Essential Power Systems</b>							
B-E2		Emergency Systems/Generator Tests CEC 700.3(A) & NFPA 110-2019 Sect 7.13					
B-E3		Automatic Transfer Switch Test 2019 NFPA 110 Sect 7.13.4.1					
B-E4		Emergency Stored Electrical Energy System Test 2019 NFPA 111 Sect 7.6					
B-E15		Means of Egress Illumination CBC 1008.2 & 1008.3 Illumination and emergency power					
<b>Patient Care Spaces</b>							
B-E5		Grounding System in Patient Care Spaces 2021 NFPA 99 6.3.3.1					
B-E6		Hospital Grade Receptacles 2021 NFPA 99 6.3.3.2.5					
B-E7		Isolated Power Systems – Line Isolation Monitor Test 2021 NFPA 99 6.3.3.3.2					
B-E8		Isolated Power Systems – Impedance of Isolated Wiring Test 2021 NFPA 99 6.3.2.9.2.1					
<b>Medium Voltage Systems</b>							
B-E9		Medium Voltage Outdoor Systems Testing CEC 225.56					
B-E10		Medium Voltage Cable Testing CEC 311.30, 225.56 & ANSI/NECA/NCSCB 600-2014					
<b>Wiring</b>							
B-E11		Insulation Testing CEC 110.7					
B-E12		Torque Electrical Connections CEC 110.3(B) & 110.14(D)					
<b>Low Voltage Systems</b>							
B-E14		Nurse Call System CEC 517.123					
<b>User Defined Electrical Tests</b>							
B-EU01							



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B-EU02							
<b>Plumbing</b>							
<b>Water Supply</b>							
B-P1		<b>Disinfection of Potable Water Systems</b> CPC 609.10					
B-P9		<b>Water Supply System</b> CPC 105.3 & 609.4 Pressure tested prior to covering or concealment					
B-P18		<b>Backflow Prevention Devices and Assemblies</b> CPC 603.2 & 603.4.2 Assembly tested					
B-P19		<b>Non-Potable Water</b> CPC 1502.0 Testing of alternate water sources and cross-connections					
B-P20		<b>Recycled Water Supply Systems</b> CPC 1505.5 & 1505.13 Initial cross-connection test and system testing before initial operation					
B-P21		<b>On-Site Treated Non-Potable Gray Water Systems</b> CPC 1502.1, 1506.5, & 1506.12 Initial cross-connection test and system testing before initial operation					
<b>Medical Gases</b>							
B-P2		<b>Medical Gas and Vacuum</b> NFPA 99-2021 Sect 5.1.10.11.11 Qualification of brazing procedures and brazing					
B-P3		<b>Medical Gas and Vacuum</b> NFPA 99-2021 Sect 5.1.12.2.1 thru 5.1.12.2.7 Installer performed tests			ASSE 6010 Cert Req'd		
B-P4		<b>Medical Gas and Vacuum</b> NFPA 99-2021 Sect 5.1.12.2.6.7 & 5.1.12.2.7.6 Witness of 24-hour standing pressure test			ASSE 6020 or 6030 Cert Req'd or Qualified IOR		
B-P5		<b>Medical Gas and Vacuum</b> NFPA 99-2021 Sect 5.1.12.3.1.1 thru 5.1.12.3.1.5 System inspection prior to concealment/cover			ASSE 6020 or 6030 Cert Req'd		
B-P6		<b>Medical Gas and Vacuum</b> NFPA 99-2021 Sect 5.1.12.3.2.1 Inspection			ASSE 6020 or 6030 Cert Req'd or Qualified IOR		
B-P7		<b>Medical Gas and Vacuum</b> NFPA 99-2021 Sect 5.1.12.4 System verification			ASSE 6030 Cert Req'd		
<b>Drainage</b>							
B-P8		<b>Existing Sewers and Drains</b> CPC 102.4.1, 105.3, & 712.0 Tested for conformance with requirements for new work					
B-P10		<b>Plumbing, Drainage, and Venting Systems</b> CPC 105.3 & 712.0 Water or air tested prior to use, covering or concealment. No air test for plastic piping.					
B-P11		<b>Building Sewer</b> CPC 105.3, 712.0, & 723.0 Water or air tested prior to use, covering or concealment. No air test for plastic piping.					



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B-P12		<b>Storm Drain Piping</b> CPC 1107.0 Water or air tested prior to use, covering or concealment					
B-P14		<b>Private Sewer Disposal System</b> CPC 105.0, & CPC Appendix H H1001.2 Tested prior to use, covering, or concealment					
B-P16		<b>Defective Systems</b> CPC 105.3.1, 105.3.2, 712.0 Air test of defective drainage and plumbing systems					
B-P17		<b>Shower Receptors</b> CPC 408.7.5					
<b>Fuel Gas</b>							
B-P13		<b>Fuel Gas Piping</b> CPC 1213.0 & CMC 1313.0 Air, CO2 or nitrogen tested prior to use, covering, or concealment					
<b>Coated Pipe</b>							
B-P15		<b>Protectively Coated Pipe</b> CPC 312.5 Tested for voids, damage, and imperfections					
<b>User Defined Plumbing Tests</b>							
B-PU01							
B-PU02							
<b>Fire Protection and Life Safety System</b>							
<b>Fire Alarm</b>							
B-FP1		<b>Fire Alarm</b> CFC 901.5 & CFC 907.7 NFPA 72-2022 Sect 14.4 Acceptance and reacceptance testing					
<b>Fire and Smoke Dampers</b>							
B-FP2		<b>Fire and Smoke Dampers</b> CFC 901.5 & CFC 907.8 Acceptance testing					
<b>Duct Detectors</b>							
B-FP3		<b>Duct Detectors</b> CFC 901.5, NFPA 72-2022 Sect 14.4 Differential pressure test					
<b>Smoke Control System</b>							
B-FP4		<b>Smoke Control System</b> CFC 901.5, CFC 909.18 & 1705A.19 Acceptance testing					
<b>Sprinklers</b>							
B-FP5		<b>Fire Sprinkler</b> CFC 901.5 & NFPA 13-2022 Chapter 29 Above ground piping acceptance testing					





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B-FP6		Fire Sprinkler CFC 901.5 & NFPA 13-2022 Chapter 29 Underground piping acceptance testing					
<b>Standpipe Systems</b>							
B-FP7		Standpipe Systems CFC 901.5 & NFPA 14-2019 Chapter 11 Above ground piping acceptance testing					
B-FP8		Standpipe Systems CFC 901.5, CFC 905.3.1 & NFPA 14-2019 Chapter 11 Acceptance testing in buildings 4-stories or more					
B-FP9		Standpipe Systems CFC 901.5 & NFPA 14-2019 Chapter 11 Underground piping acceptance testing					
<b>Private Fire Mains</b>							
B-FP10		Private Fire Mains CFC 901.5 & NFPA 24-2019 Sect 10.10 Acceptance testing					
<b>Fire Pumps</b>							
B-FP11		Fire Pumps CFC 901.5 & NFPA 20-2019 Sect 14.1 & 14.2 Acceptance testing					
<b>Fire Protection Water Tank</b>							
B-FP12		Fire Protection Water Tank CFC 901.5 & NFPA 22-2018 Chapter 17 Acceptance testing					
<b>Alternative Automatic Fire Extinguishing Systems</b>							
B-FP13		Wet Chemical Extinguishing System CFC 901.5 & NFPA 17A-2021 Sect 7.4 Acceptance testing					
B-FP14		Clean Agent Extinguishing System CFC 901.5 & NFPA 2001-2018 Sect 7.7 Acceptance testing					
B-FP15		CO2 Extinguishing System CFC 901.5 & NFPA 12-2018 Sect 4.4.3 & 4.4.4 Acceptance testing					
B-FP16		Dry Chemical Extinguishing System CFC 901.5 & NFPA 17-2021 Sect 10.4 Acceptance testing					
B-FP17		Halon 1301 Extinguishing System CFC 901.5 & NFPA 12A-2018 Sect 6.7 Acceptance testing					
<b>Fuel Tanks</b>							
B-FP18		Underground Fuel Storage Tank CFC 5704.2.12 & NFPA 30-2021 Sect 21.5.1 Initial testing					
B-FP19		Underground Fuel Storage Tank CFC 5704.2.12 & NFPA 30-2021 Sect 21.5.2 Tightness testing					
B-FP20		Flammable and Combustible Liquid Fuel Piping CFC 5703.6.3 Pressure testing					
<b>Emergency Responder Radio Coverage</b>							



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B-FP21		Emergency Responder Radio Coverage CFC 510.5.4 Acceptance test procedure					
<b>Elevators</b>							
B-FP22		Testing of Elevator Shutdown CBC 3005.5, NFPA 72-2022 21.4, & ASME A17.1/CSA B44-2019					
B-FP23		Elevator Emergency Operation CBC 3003.2 Emergency recall and in-cart operation					
B-FP24		Elevator Emergency Standby Power CBC 3003.1 Backup generator engaged					
<b>Fire Door, Fire Shutter, and Fire Windows</b>							
B-FP25		Fire Door, Fire Shutter, and Fire Windows NFPA 80-2019 5.2 Testing					
<b>Fire Watch</b>							
B-FP26		Fire Watch CBC 901.7 & CAN 9-901.7 Review of the fire watch log and the written sign off / permission to terminate fire watch.					
<b>User Defined Fire Protection and Life Safety System Tests</b>							
B-FU01							
B-FU02							
<b>OTHER</b>							
<b>User Defined Tests</b>							
B-OU01							
B-OU02							
B-OU03							
B-OU04							
B-OU05							
B-OU06							
B-OU07							



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B-OU08							
B-OU09							
B-OU10							
<b>END OF TESTS</b>							



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### Structural

#### Foundation

C-F1	X	Soils CBC 1705A.6 Soil fill					
C-F2	X	Soils CBC 1705A.6 Bearing capacity of materials below shallow foundations					
C-F3	X	Soils CBC 1705A.6 Excavation depth					
C-F4	X	Deep Foundations CBC 1705A.7 Driven deep foundations					
C-F5	X	Deep Foundations CBC 1705A.8 Cast-in-place deep foundations					
C-F6	X	Deep Foundations CBC 1705A.9 Helical pile foundations					
C-F7	X	Shoring CBC 1812A Shoring					
C-F8	X	Vibro Stone Columns (VSC) CBC 1813A Vibro stone columns					
C-F9	X	Prestressed Soil and Rock Anchors CBC 1811A & 1812A Installation and testing					

#### Concrete

C-C2	X	Concrete Installation CBC 1705A.3; ACI-318 26.5.2 & 26.13 Placement of concrete					
C-C3	X	Concrete Mix and Mix Components CBC 1705A.3; ACI-318 26.4.1.5 Admixtures					
C-C4	X	Concrete Mix and Mix Components CBC 1705A.3; ACI-318 26.4 Mix design					
C-C5	X	Post-Installed and Cast-In Components CBC 1705A.3; ACI-318 26.13 Reinforcing steel & prestressing steel					
C-C6	X	Post-Installed and Cast-In Components CBC 1705A.3 CIP & post-installed anchors					
C-C7	X	Post-Installed and Cast-In Components CBC Table 1705A.3 Adhesive anchors in horizontal and upwardly inclined positions with sustained tension load					



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

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C-C8		<b>Post-Installed and Cast-In Components</b> CBC 1705A.3; ACI-318 26.13 Specialty inserts, stud rails, rebar mechanical connections, headed rebar					
C-C9		<b>Prestressed Concrete</b> CBC 1705A.3.4; ACI-318 26.13					
C-C10		<b>Precast Concrete Erection</b> CBC 1705A.3; ACI 318 26.9, 26.13.1 & 26.13.3.3					
C-C11		<b>Shotcrete</b> CBC 1705A.3.9 & 1908A Installation					
C-C12		<b>Insulating Concrete</b> CBC 1705A.3					
C-C13		<b>Post-Installed and Cast-In Components</b> CBC 1705A.3, 1705A.3.1 & 1903A.8 Welding of reinforcing bars					
C-C14		<b>GFRC Panels</b> PCI MNL 128 standard					
C-C15		<b>Strengthening and Repair</b> CBC 1911A.2; ACI 503.7 Crack repair by epoxy injection					
C-C16		<b>Strengthening and Repair</b> CBC 1911A.3, ICC AC178 Sect 3 to 8 Strengthening by externally bonded FRP					
<b>Masonry</b>							
C-MA1		<b>Masonry Construction</b> CBC 1705A.4 Laying and grouting					
C-MA2		<b>Masonry Construction</b> CBC 2104A.1.3 Reinforced grouted masonry					
C-MA3		<b>Post-Installed and Cast-In Components in Masonry</b> CBC 1705A.4 CIP & post-installed anchors					
<b>Steel</b>							
C-S2		<b>Welding</b> CBC 1705A.2.1 & 1705A.2.5 Automatic End-Welded Studs					
C-S3		<b>Welding</b> CBC 1705A.2.5 Weld Inspections					
C-S4		<b>Welding</b> AWS D1.1 3 & 4, and AWS D1.8 6.1 WPS / WPQR					
C-S5		<b>High Strength Bolt Installation</b> CBC 1705A.2 & 1705A.2.6					



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

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C-S6		<b>Cold-Formed Steel Light Frame Construction</b> CBC 1705A.2, 1705A.12.2, & 1705A.13.3					
C-S7		<b>Special Inspections for Seismic Resistance</b> CBC 1705A.13.1.1 & 1705A.13.1.2 Seismic force-resisting systems and elements					
<b>Wood</b>							
C-W1		<b>Glue Laminated Timber</b> CBC 1705A.5, 1705A.5.5, & 1705A.12.1					
C-W2		<b>Timber Connector Installation</b> CBC 1705A.5.6, 1705A.11.1, & 1705A.12.1					
C-W3		<b>Manufactured Trusses</b> CBC 1705A.5, 1705A.5.2, & 1705A.5.6					
C-W4		<b>Fastening</b> CBC 1705A.12.1 & 1705A.13.2 Nailing, screw attachment, bolting, anchoring, field gluing operations, and other fastening					
<b>Other Structural Materials</b>							
C-OM1		<b>Aluminum</b> CBC 2003.1 Inspection					
C-OM2		<b>Structural Sealant Glazing</b> CBC 2410.1.2 & 1705A.13.5.2 Structural sealants for exterior glass curtain walls					
C-OM3		<b>Thermal Barriers in Aluminium Mullion Systems</b> CBC 2411.1.2 Testing and inspection					
<b>Alternative Systems</b>							
C-AS1		<b>Alternative system</b> CBC 1705A.1.1 Construction materials and methods for alternative system					
C-AS2		<b>Seismic Isolation System</b> CBC 1705A.13.8 Fabrication, installation, prototype, and production testing					
C-AS3		<b>Seismic Damping System</b> CBC 1705A.13.8 Fabrication, installation, prototype, and production testing					
<b>Nonstructural components, supports and attachments</b>							
C-N1		<b>Nonstructural Walls and Components</b> CBC 1705A.13.5 & 1705A.17 Cladding, nonbearing walls, and veneer					
C-N2		<b>Ceiling</b> CBC 1705A.13.5 Suspended ceiling systems and their anchorage					
C-N3		<b>Access Floors</b> CBC 1705A.13.5.1 Anchorage of access floor systems					



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

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C-N4		Storage Racks 8 ft or Taller CBC 1705A.13.7 Anchorage					
C-N5		Mechanical, Electrical, and Plumbing Components CBC 1705A.13.6 Anchorage, bracing, and vibration isolators					
C-N6		Special Seismic Certification CBC 1705A.13.4 Special seismic certification label, anchorage, and mounting					
User Defined Structural Special Inspections							
C-SU01							
C-SU02							
Mechanical							
User Defined Mechanical Special Inspections							
C-MU01							
C-MU02							
Electrical							
Adjustable Overcurrent Protection Devices							
C-E1		Available Fault and Short-Circuit Current Field Marking per Approved Coordination Study CEC 110.16(B), 409.110, 430.98, 620.51(D)(2) & 700.5(E)					
C-E2		Essential Electrical System OCPD Selection and Adjustable Settings Check per Approved Coordination Study CEC 517.31(G)					
C-E3		Elevator Circuit Breaker Selection and Settings per Approved Coordination Study CEC 620.62					
Fire Pumps							
C-E4		Fire Pump Circuit Breaker Selection and Settings per Approved Coordination Study CEC 695.3(C)(3)					
Labeling							
C-E6		Arc Flash Hazard Warning CEC 110.16(A)					



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### 2022 California Building Standards Code - OSHPD 1

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<b>User Defined Electrical Special Inspections</b>							
C-EU01							
C-EU02							
<b>Plumbing</b>							
<b>User Defined Plumbing Special Inspections</b>							
C-PU01							
C-PU02							
<b>Fire Protection and Life Safety System</b>							
<b>Fireproofing and Fire Stopping</b>							
C-FP1		Sprayed Fire-Resistant Materials CBC 1705A.15 Spray-applied fireproofing					
C-FP2		Mastic and Intumescent Fire-Resistant Coatings CBC 1705A.16 In accordance with AWCI 12-B					
C-FP3		Penetration Firestops CBC 1705A.18.1 Penetration firestop systems that are tested and listed					
C-FP4		Fire-Resistant Joint Systems CBC 1705A.18.2 Fire-resistant joint systems that are tested and listed					
<b>Smoke Control Systems</b>							
C-FP5		Smoke Control Systems CFC 909.18.8, CBC 1705A.14.3.1, & 1705A.19 Ductwork and operation					
<b>Sprinklers</b>							
C-FP6		Sprinkler System Piping NFPA 13-2022 Sect 7.5.2 Welded pipe and fittings					
<b>Standpipe Systems</b>							
C-FP7		Standpipe System Piping NFPA 14-2019 Sect 4.4.2 Welded pipe and fittings					
<b>Fire Door, Fire Shutter, and Fire Windows</b>							
C-FP8		Fire Door, Fire Shutter, and Fire Windows NFPA 80-2019 5.1.4, 5.2 Inspection and labeling					
<b>Portable Fire Extinguishing Equipment</b>							
C-FP9		Portable Fire Extinguishers CFC 906 & CCR, Title 19, Division 1, Sect 3.29(a)-(d)					





## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

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<b>Exterior Finish Systems</b>							
C-FP10	<input type="checkbox"/>	Exterior insulation and finish systems (EIFS) CBC 1705A.17 EIFS applications					
<b>User Defined Fire Protection and Life Safety System Special Inspections</b>							
C-FU01	<input type="checkbox"/>						
C-FU02	<input type="checkbox"/>						
<b>Architectural</b>							
<b>Exterior Finish Systems</b>							
C-A2	<input type="checkbox"/>	Water-Resistive Barrier Coating CBC 1705A.17.1 ASTM E2570 barrier coating when installed over a sheathing substrate					
<b>Signage</b>							
C-A3	<input type="checkbox"/>	Exit Signs CBC 1013.1 Location, illumination and physical characteristics					
C-A4	<input type="checkbox"/>	Accessible Signage CBC 11B-703.1 Visual and tactile requirements					
<b>Roof Coverings</b>							
C-A5	<input type="checkbox"/>	Substrate for Roof Coverings CBC 1507 Requirements for Roof Coverings					
C-A6	<input type="checkbox"/>	Installation of Roof Coverings CBC 1506 Materials					
<b>User Defined Architectural Special Inspections</b>							
C-AU01	<input type="checkbox"/>						
C-AU02	<input type="checkbox"/>						
<b>Non-Residential Certificate Of Acceptance (NRCA)</b>							
<b>Covered Processes</b>							
C-NRCA1	<input type="checkbox"/>	Compressed Air California Energy Code 2022-CEC-NRCA-PRC-01-F: <a href="https://www.energy.ca.gov/filebrowser/download/4913">https://www.energy.ca.gov/filebrowser/download/4913</a>			Responsible Designer Or Installing Contractor		
C-NRCA2	<input type="checkbox"/>	Escalator Speed Control California Energy Code 2022-CEC-NRCA-PRC-13-F: <a href="https://www.energy.ca.gov/filebrowser/download/4922">https://www.energy.ca.gov/filebrowser/download/4922</a>			Responsible Designer Or Installing Contractor		



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

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C-NRCA3		<b>Parking Garage Ventilation</b> California Energy Code 2022-CEC-NRCA-PRC-03-F: <a href="https://www.energy.ca.gov/filebrowser/download/4915">https://www.energy.ca.gov/filebrowser/download/4915</a>			Responsible Designer Or Installing Contractor		
<b>Envelope</b>							
C-NRCA4		<b>Fenestration Acceptance</b> California Energy Code 2022-CEC-NRCA-ENV-02-F: <a href="https://www.energy.ca.gov/filebrowser/download/4942">https://www.energy.ca.gov/filebrowser/download/4942</a>			Responsible Designer Or Installing Contractor		
<b>Lighting</b>							
C-NRCA5		<b>Automatic Daylighting Control</b> California Energy Code 2022-CEC-NRCA-LTI-03-A: <a href="https://www.energy.ca.gov/filebrowser/download/5066">https://www.energy.ca.gov/filebrowser/download/5066</a>			Responsible Designer Or Installing Contractor		
C-NRCA6		<b>Demand Response Controls</b> California Energy Code 2022-CEC-NRCA-LTI-04-A: <a href="https://www.energy.ca.gov/filebrowser/download/5067">https://www.energy.ca.gov/filebrowser/download/5067</a>			Responsible Designer Or Installing Contractor		
C-NRCA7		<b>Institutional PAF</b> California Energy Code 2022-CEC-NRCA-LTI-05-A: <a href="https://www.energy.ca.gov/filebrowser/download/5068">https://www.energy.ca.gov/filebrowser/download/5068</a>			Responsible Designer Or Installing Contractor		
C-NRCA8		<b>Outdoor Lighting Controls</b> California Energy Code 2022-CEC-NRCA-LTO-02-A: <a href="https://www.energy.ca.gov/filebrowser/download/5069">https://www.energy.ca.gov/filebrowser/download/5069</a>			Responsible Designer Or Installing Contractor		
C-NRCA9		<b>Shut-Off Lighting Control</b> California Energy Code 2022-CEC-NRCA-LTI-02-A: <a href="https://www.energy.ca.gov/filebrowser/download/5065">https://www.energy.ca.gov/filebrowser/download/5065</a>			Responsible Designer Or Installing Contractor		
<b>User Defined Non-Residential Certificate Of Acceptance (NRCA) Special Inspections</b>							
C-NU01							
C-NU02							
<b>Non-Residential Certificate Of Installation (NRCI)</b>							
<b>Electrical</b>							
C-NRCI1		<b>Electric Ready Requirements</b> California Energy Code 2022-CEC-NRCI-ELC-E: <a href="https://www.energy.ca.gov/filebrowser/download/5264">https://www.energy.ca.gov/filebrowser/download/5264</a>			Responsible Designer Or Installing Contractor		
<b>Envelope</b>							
C-NRCI2		<b>Envelope Component Approach</b> California Energy Code 2022-CEC-NRCI-ENV-E: <a href="https://www.energy.ca.gov/filebrowser/download/5265">https://www.energy.ca.gov/filebrowser/download/5265</a>			Responsible Designer Or Installing Contractor		
<b>Lighting</b>							



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

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C-NRCI3	<input type="checkbox"/>	Indoor Lighting California Energy Code 2022-CEC-NRCI-LTI-E: <a href="https://www.energy.ca.gov/filebrowser/download/5266">https://www.energy.ca.gov/filebrowser/download/5266</a>			Responsible Designer Or Installing Contractor		
C-NRCI4	<input type="checkbox"/>	Outdoor Lighting California Energy Code 2022-CEC-NRCI-LTO-E: <a href="https://www.energy.ca.gov/filebrowser/download/5267">https://www.energy.ca.gov/filebrowser/download/5267</a>			Responsible Designer Or Installing Contractor		
C-NRCI5	<input type="checkbox"/>	Sign Lighting California Energy Code 2022-CEC-NRCI-LTS-E: <a href="https://www.energy.ca.gov/filebrowser/download/5268">https://www.energy.ca.gov/filebrowser/download/5268</a>			Responsible Designer Or Installing Contractor		
User Defined Non-Residential Certificate Of Installation (NRCI) Special Inspections							
C-NU01	<input type="checkbox"/>						
C-NU02	<input type="checkbox"/>						
OTHER							
User Defined Special Inspections							
C-OU01	<input type="checkbox"/>						
C-OU02	<input type="checkbox"/>						
C-OU03	<input type="checkbox"/>						
C-OU04	<input type="checkbox"/>						
C-OU05	<input type="checkbox"/>						
C-OU06	<input type="checkbox"/>						
C-OU07	<input type="checkbox"/>						
C-OU08	<input type="checkbox"/>						
C-OU09	<input type="checkbox"/>						



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

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C-OU10							
END OF ON-SITE SPECIAL INSPECTIONS							



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

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Index #	Stage 1 Required (Select with "X")	<b>OFF-SITE SPECIAL INSPECTIONS</b>	Samples of Test & Inspection Reports Included	OPAA No. and Expiration Date	Responsible Approved Agency And/Or Individual (Identify Special Inspector)	Compliance Verification by IOR (Initial/Date)	HCAI/OSHPD Use (Initial/Date)

#### Structural

##### Concrete

D-C1		Concrete Mix and Mix Components CBC 1705A.3.3 Batch plant inspection					
D-C2		Concrete Installation CBC 1705A.3; ACI-318 26.5.2 & 26.13 Placement of concrete					
D-C3		Concrete Mix and Mix Components CBC 1705A.3; ACI-318 26.4.1.5 Admixtures					
D-C4		Concrete Mix and Mix Components CBC 1705A.3; ACI-318 26.4 Mix design					
D-C5		Post-Installed and Cast-In Components CBC 1705A.3; ACI-318 26.13 Reinforcing steel & prestressing steel					
D-C6		Post-Installed and Cast-In Components CBC 1705A.3 CIP & post-installed anchors					
D-C7		Post-Installed and Cast-In Components CBC Table 1705A.3 Adhesive anchors in horizontal and upwardly inclined positions with sustained tension load					
D-C8		Post-Installed and Cast-In Components CBC 1705A.3; ACI-318 26.13 Specialty inserts, stud rails, rebar mechanical connections, headed rebar					
D-C9		Prestressed Concrete CBC 1705A.3.4; ACI-318 26.13					
D-C11		Shotcrete CBC 1705A.3.9 & 1908A Installation					
D-C12		Insulating Concrete CBC 1705A.3					
D-C13		Post-Installed and Cast-In Components CBC 1705A.3, 1705A.3.1 & 1903A.8 Welding of reinforcing bars					
D-C14		GFRC Panels PCI MNL 128 standard					

##### Masonry

D-MA1		Masonry Construction CBC 1705A.4 Laying and grouting					
D-MA2		Masonry Construction CBC 2104A.1.3 Reinforced grouted masonry					



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

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D-MA3		Post-Installed and Cast-In Components in Masonry CBC 1705A.4 CIP & post-installed anchors					
<b>Steel</b>							
D-S1		<b>Fabrication</b> CBC 1705A.2; AISC 360 & AISC 341 Steel shop fabrication					
D-S2		<b>Welding</b> CBC 1705A.2.1 & 1705A.2.5 Automatic End-Welded Studs					
D-S3		<b>Welding</b> CBC 1705A.2.5 Weld Inspections					
D-S4		<b>Welding</b> AWS D1.1 3 & 4, and AWS D1.8 6.1 WPS / WPQR					
D-S5		<b>High Strength Bolt Installation</b> CBC 1705A.2 & 1705A.2.6					
D-S6		<b>Cold-Formed Steel Light Frame Construction</b> CBC 1705A.2, 1705A.12.2, & 1705A.13.3					
D-S7		<b>Special Inspections for Seismic Resistance</b> CBC 1705A.13.1.1 & 1705A.13.1.2 Seismic force-resisting systems and elements					
<b>Wood</b>							
D-W1		<b>Glue Laminated Timber</b> CBC 1705A.5, 1705A.5.5, & 1705A.12.1					
D-W2		<b>Timber Connector Installation</b> CBC 1705A.5.6, 1705A.11.1, & 1705A.12.1					
D-W3		<b>Manufactured Trusses</b> CBC 1705A.5, 1705A.5.2, & 1705A.5.6					
D-W4		<b>Fastening</b> CBC 1705A.12.1 & 1705A.13.2 Nailing, screw attachment, bolting, anchoring, field gluing operations, and other fastening					
<b>Other Structural Materials</b>							
D-OM1		<b>Aluminum</b> CBC 2003.1 Inspection					
D-OM2		<b>Structural Sealant Glazing</b> CBC 2410.1.2 & 1705A.13.5.2 Structural sealants for exterior glass curtain walls					
D-OM3		<b>Thermal Barriers in Aluminium Mullion Systems</b> CBC 2411.1.2 Testing and inspection					
<b>Alternative Systems</b>							



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### 2022 California Building Standards Code - OSHPD 1

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D-AS1		<b>Alternative system</b> CBC 1705A.1.1 Construction materials and methods for alternative system					
D-AS2		<b>Seismic Isolation System</b> CBC 1705A.13.8 Fabrication, installation, prototype, and production testing					
D-AS3		<b>Seismic Damping System</b> CBC 1705A.13.8 Fabrication, installation, prototype, and production testing					
<b>Nonstructural components, supports and attachments</b>							
D-N1		<b>Nonstructural Walls and Components</b> CBC 1705A.13.5 & 1705A.17 Cladding, nonbearing walls, and veneer					
D-N2		<b>Ceiling</b> CBC 1705A.13.5 Suspended ceiling systems and their anchorage					
D-N3		<b>Access Floors</b> CBC 1705A.13.5.1 Anchorage of access floor systems					
D-N4		<b>Storage Racks 8 ft or Taller</b> CBC 1705A.13.7 Anchorage					
D-N5		<b>Mechanical, Electrical, and Plumbing Components</b> CBC 1705A.13.6 Anchorage, bracing, and vibration isolators					
D-N6		<b>Special Seismic Certification</b> CBC 1705A.13.4 Special seismic certification label, anchorage, and mounting					
<b>User Defined Structural Special Inspections</b>							
D-SU01							
D-SU02							
<b>Architectural</b>							
<b>Exterior Finish Systems</b>							
D-A2		<b>Water-Resistive Barrier Coating</b> CBC 1705A.17.1 ASTM E2570 barrier coating when installed over a sheathing substrate					
<b>Signage</b>							
D-A4		<b>Accessible Signage</b> CBC 11B-703.1 Visual and tactile requirements					
<b>User Defined Architectural Special Inspections</b>							



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

SECTION D			NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.				
Facility #:		Facility Name:		Project #:			
		Select with "X" or provide required OPAA information:					
Index #	Stage 1 Required (Select with "X")	OFF-SITE SPECIAL INSPECTIONS	Samples of Test & Inspection Reports Included	OPAA No. and Expiration Date	Responsible Approved Agency And/Or Individual (Identify Special Inspector)	Compliance Verification by IOR (Initial/Date)	HCAI/OSHPD Use (Initial/Date)
D-AU01							
D-AU02							
<b>Mechanical</b>							
User Defined Mechanical Special Inspections							
D-MU01							
D-MU02							
<b>Electrical</b>							
User Defined Electrical Special Inspections							
D-EU01							
D-EU02							
<b>Plumbing</b>							
User Defined Plumbing Special Inspections							
D-PU01							
D-PU02							
<b>Fire Protection and Life Safety System</b>							
User Defined Fire Protection and Life Safety System Special Inspections							
D-FU01							
D-FU02							
<b>OTHER</b>							
User Defined Special Inspections							
D-OU01							





## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

<b>SECTION D</b>			NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.				
Facility #:		Facility Name:		Project #:			
			Select with "X" or provide required OPAA information:				
Index #	Stage 1 Required (Select with "X")	<b>OFF-SITE SPECIAL INSPECTIONS</b>	Samples of Test & Inspection Reports Included	OPAA No. and Expiration Date	Responsible Approved Agency And/Or Individual (Identify Special Inspector)	Compliance Verification by IOR (Initial/Date)	HCAI/OSHPD Use (Initial/Date)
D-OU02							
D-OU03							
D-OU04							
D-OU05							
D-OU06							
D-OU07							
D-OU08							
D-OU09							
D-OU10							
<b>END OF OFF-SITE SPECIAL INSPECTIONS</b>							



## Testing, Inspection, and Observation Program

2022 California Building Standards Code - OSHPD 1

SECTION E		REQUIRED COMPLIANCE FORMS			
Facility #:		Facility Name:		Project #:	
Form #	Required (Select with "X")	DOCUMENT NAME	Responsible Designer Or Installing Contractor	Compliance Verification by IOR (Initial/Date)	HCAI/OSHPD Use (Initial/Date)
<p align="center"><b>California Energy Code required compliance forms have been moved to Section C: On-Site Special Inspections</b></p>					





## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

<b>SECTION G</b>		<b>Inspector of Record (IOR) Responsibility</b>	
Facility #:	Facility Name:	Project #:	
<p><b>INSPECTOR OF RECORD RESPONSIBILITIES.</b> Per CAC 7-145: "The Inspector shall have personal knowledge, obtained by continuous inspection of all work of construction in all stages of its progress to ensure that the work is in accordance with the approved construction documents." This includes applicable Codes, Referenced Standards, Listings and Manufacturer's Installation Instructions applicable to the work shown in the approved construction documents. If a project has more than one inspector of record, the distribution of responsibilities for the work shall be clearly identified for each IOR per CAC 7-141(f). One IOR shall be designated as the 'lead' IOR per CAC 7-144(b). One IOR shall be assigned responsibility for "all other work" to make sure responsibility for the inspection of every part of the work is assigned.</p>			
INSPECTOR OF RECORD CAC 7-141, 7-145 & 7-151		SCOPE OF INSPECTION	PERFORMED OFF-SITE



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

SECTION H		HCAI REVIEWED	
Facility #:	Facility Name:	Project #:	
NOTE: A structural engineer's signature is required for H and I projects or when they are substantially involved on an S project			
Submitted By:			
I have reviewed the approved construction documents for this project and all tests and special inspections required by Code are marked as "required" on this form.			
Architect/Engineer of Record (Print Name)	Professional License #	Architect/Engineer of Record (Signature)	Date
Structural Engineer of Record (Print Name)	Professional License #	Structural Engineer of Record (Signature)	Date
FOR HCAI/OSHPD USE			
TIO Program Reviewed by HCAI Plan Review Staff:			
<p><b>Note:</b> HCAI plan review staff must provide verification that the TIO program has been "Reviewed" prior to plan approval to confirm the applicability of the tests and inspections identified in the TIO program for work scope, building systems, and the construction materials shown in the design drawings. Field staff will issue subsequent "TIO Program Approval".</p>			



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

SECTION I		TIO PROGRAM APPROVAL	
Facility #:	Facility Name:	Project #:	
<p>This program is prepared and submitted for an OSHPD 1 project. OSHPD 1 projects include all construction and remodel projects for: general acute care hospitals, acute psychiatric hospitals, and general acute care hospitals providing only acute medical rehabilitation center services (CBC 1224.1).</p>			
<p><b>Samples of Test and Special Inspection Reports are <i>NOT</i> required for laboratories approved through OPAA Program</b></p>			
<p><i>All test and special inspection reports shall be submitted to the IOR, hospital owner, architect in responsible charge, and the structural engineer by the responsible approved agency and/or individual per CAC 7-149(a). The responsible approved agency and/or individual shall be employed by the health facility, owner, or governing board or authority per CAC 7-149(b).</i></p>			
<p><i>Verified compliance reports shall be signed by the individual who performed the special inspection(s) as outlined in CAC 7-151(a). All reports shall clearly state whether the tests or special inspections were performed in accordance with the HCAI stamped approved documents and whether the results indicate compliance with those documents per CAC 7-149(a). All IORs performing special inspections shall hold the appropriate certification and equipment, and shall obtain approval from the design professional of record and HCAI prior to performing such work.</i></p>			
<p><i>NOTE: This Test, Inspection, and Observation Report shall be approved by HCAI field personnel prior to start of construction.</i></p>			
Architect/Engineer of Record (Print Name)	Professional License #	Architect/Engineer of Record (Signature)	Date
<b>FOR HCAI/OSHPD FIELD STAFF USE</b>			
<p>TIO Program Approved by HCAI Field Staff:</p> <div style="height: 150px; border: 1px solid black;"></div>			
<p><b>Note:</b> HCAI plan review staff must provide verification that the TIO program has been "Reviewed" prior to plan approval to confirm the applicability of the tests and inspections identified in the TIO program for work scope, building systems, and the construction materials shown in the design drawings. HCAI Field staff will issue subsequent "TIO Program Approval".</p> <p>If "Approved with Comments" is checked the following comments shall be resolved by the designer prior to proceeding with the related construction:</p> <div style="height: 100px; border: 1px solid black;"></div>			



## Testing, Inspection, and Observation Program

### 2022 California Building Standards Code - OSHPD 1

[illegible]