



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	
Facility #:	Facility Name:		Project #:
Street Address:			
City:		County:	
Record Name (Scope of Project):			
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: R26.1.2
Testing, Inspection, and Observation Stages			
Stage No.	Stage Name		Stage Scope / Description
1			
DESIGN PROFESSIONAL OF RECORD RESPONSIBILITY			
<p><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></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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Index #	Stage 1 Required (Select with "X")	TESTS	Samples of Test & Inspection Reports Included	OPAA No. and Expiration Date	Responsible Approved Agency And/Or Individual (Identify Individual)	Compliance Verification by IOR (Initial/Date)	HCAI/OSHPD Use (Initial/Date)
Structural							
Foundation							
B-F1	<input type="checkbox"/>	Soil fill CBC 1705A.6 Fill material acceptance test					
B-F2	<input type="checkbox"/>	Soil fill CBC 1705A.6 Compaction test					
B-F3	<input type="checkbox"/>	Soil and rock anchors CBC 1811A Load test					
B-F4	<input type="checkbox"/>	Deep foundation elements 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	<input type="checkbox"/>	Shoring CBC 1812A Tie-Back Anchors					
B-F6	<input type="checkbox"/>	Vibro Stone Columns (VSC) CBC 1813A Acceptance Test					
Concrete							
B-C1	<input type="checkbox"/>	Concrete Mix Components CBC 1705A.3, 1903A.6 & 1910A.1; ACI 318 1.9.1 & 26.4.1.1 Cementitious materials					
B-C2	<input type="checkbox"/>	Concrete Mix Components CBC 1705A.3, 1903A.5; ACI 318 1.9.1 & 26.4.1.2 Aggregates/Reactive aggregates					
B-C3	<input type="checkbox"/>	Concrete Mix Components CBC 1705A.3; ACI 318 26.4.1.4; ASTM C1602 Water					
B-C4	<input type="checkbox"/>	Concrete Strength Test CBC 1705A.3 & 1905A.1.17; ACI 318 26.12 Strength test for concrete and high-strength grout					
B-C5	<input type="checkbox"/>	Cast-In Components 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	<input type="checkbox"/>	Cast-In Components CBC 1705A.3, 1901A.3; ACI 318 20.4 Headed studs and headed stud assemblies					
B-C7	<input type="checkbox"/>	Cast-In Components CBC Table 1705A.3, 1903A.8 Weldability of reinforcing bars					
B-C8	<input type="checkbox"/>	Prestressed Concrete CBC 1705A.3 & 1910A.3; ACI 318 20.3, 25.8 & 26.6.1.2 Prestressing tendons and anchorage					
B-C9	<input type="checkbox"/>	Strengthening and Repair CBC 1911A.2; ACI 503.7 Crack repair by epoxy injection					
B-C10	<input type="checkbox"/>	Strengthening and Repair CBC 1911A.3; ICC-ES AC 178 Sect 9 Strengthening by externally bonded FRP					



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



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



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



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B-E1		Ground Fault Protection of Equipment CEC 230.95(C) & 517.17(D)					
Essential Power Systems							
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					
Patient Care Spaces							
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					
Medium Voltage Systems							
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					
Wiring							
B-E11		Insulation Testing CEC 110.7					
B-E12		Torque Electrical Connections CEC 110.3(B) & 110.14(D)					
Low Voltage Systems							
B-E14		Nurse Call System CEC 517.123					
User Defined Electrical Tests							
B-EU01							
B-EU02							



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Plumbing

Water Supply

B-P1	X	Disinfection of Potable Water Systems CPC 609.10					
B-P9	X	Water Supply System CPC 105.3 & 609.4 Pressure tested prior to covering or concealment					
B-P13	X	Backflow Prevention Devices and Assemblies CPC 603.2 & 603.4.2 Assembly tested					
B-P19	X	Non-Potable Water CPC 1502.0 Testing of alternate water sources and cross-connections					
B-P20	X	Recycled Water Supply Systems CPC 1505.5 & 1505.13 Initial cross-connection test and system testing before initial operation					
B-P21	X	On-Site Treated Non-Potable Gray Water Systems CPC 1502.1, 1506.5, & 1506.12 Initial cross-connection test and system testing before initial operation					

Medical Gases

B-P2	X	Medical Gas and Vacuum NFPA 99-2021 Sect 5.1.10.11.11 Qualification of brazing procedures and brazing					
B-P3	X	Medical Gas and Vacuum 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	X	Medical Gas and Vacuum 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	X	Medical Gas and Vacuum 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	X	Medical Gas and Vacuum NFPA 99-2021 Sect 5.1.12.3.2.1 Inspection			ASSE 6020 or 6030 Cert Req'd or Qualified IOR		
B-P7	X	Medical Gas and Vacuum NFPA 99-2021 Sect 5.1.12.4 System verification			ASSE 6030 Cert Req'd		

Drainage

B-P8	X	Existing Sewers and Drains CPC 102.4.1, 105.3, & 712.0 Tested for conformance with requirements for new work					
B-P10	X	Plumbing, Drainage, and Venting Systems CPC 105.3 & 712.0 Water or air tested prior to use, covering or concealment. No air test for plastic piping.					
B-P11	X	Building Sewer 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		Storm Drain Piping CPC 1107.0 Water or air tested prior to use, covering or concealment					
B-P14		Private Sewer Disposal System CPC 105.0, & CPC Appendix H H1001.2 Tested prior to use, covering, or concealment					
B-P16		Defective Systems CPC 105.3.1, 105.3.2, 712.0 Air test of defective drainage and plumbing systems					
B-P17		Shower Receptors CPC 408.7.5					
Fuel Gas							
B-P13		Fuel Gas Piping CPC 1213.0 & CMC 1313.0 Air, CO2 or nitrogen tested prior to use, covering, or concealment					
Coated Pipe							
B-P15		Protectively Coated Pipe CPC 312.5 Tested for voids, damage, and imperfections					
User Defined Plumbing Tests							
B-PU01							
B-PU02							
Fire Protection and Life Safety System							
Fire Alarm							
B-FP1		Fire Alarm CFC 901.5 & CFC 907.7 NFPA 72-2022 Sect 14.4 Acceptance and reacceptance testing					
Fire and Smoke Dampers							
B-FP2		Fire and Smoke Dampers CFC 901.5 & CFC 907.8 Acceptance testing					
Duct Detectors							
B-FP3		Duct Detectors CFC 901.5, NFPA 72-2022 Sect 14.4 Differential pressure test					
Smoke Control System							
B-FP4		Smoke Control System CFC 901.5, CFC 909.18 & 1705A.19 Acceptance testing					
Sprinklers							
B-FP5		Fire Sprinkler 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					
Standpipe Systems							
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					
Private Fire Mains							
B-FP10		Private Fire Mains CFC 901.5 & NFPA 24-2019 Sect 10.10 Acceptance testing					
Fire Pumps							
B-FP11		Fire Pumps CFC 901.5 & NFPA 20-2019 Sect 14.1 & 14.2 Acceptance testing					
Fire Protection Water Tank							
B-FP12		Fire Protection Water Tank CFC 901.5 & NFPA 22-2018 Chapter 17 Acceptance testing					
Alternative Automatic Fire Extinguishing Systems							
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					
Fuel Tanks							
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					
Emergency Responder Radio Coverage							
B-FP21		Emergency Responder Radio Coverage CFC 510.5.4 Acceptance test procedure					



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Elevators							
B-FP22	<input type="checkbox"/>	Testing of Elevator Shutdown CBC 3005.5, NFPA 72-2022 21.4, & ASME A17.1/CSA B44-2019					
B-FP23	<input type="checkbox"/>	Elevator Emergency Operation CBC 3003.2 Emergency recall and in-cart operation					
B-FP24	<input type="checkbox"/>	Elevator Emergency Standby Power CBC 3003.1 Backup generator engaged					
Fire Door, Fire Shutter, and Fire Windows							
B-FP25	<input type="checkbox"/>	Fire Door, Fire Shutter, and Fire Windows NFPA 80-2019 5.2 Testing					
Fire Watch							
B-FP26	<input type="checkbox"/>	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.					
User Defined Fire Protection and Life Safety System Tests							
B-FU01	<input type="checkbox"/>						
B-FU02	<input type="checkbox"/>						
OTHER							
User Defined Tests							
B-OU01	<input type="checkbox"/>						
B-OU02	<input type="checkbox"/>						
B-OU03	<input type="checkbox"/>						
B-OU04	<input type="checkbox"/>						
B-OU05	<input type="checkbox"/>						
B-OU06	<input type="checkbox"/>						
B-OU07	<input type="checkbox"/>						
B-OU08	<input type="checkbox"/>						



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B-OU09							
B-OU10							
END OF TESTS							



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Facility #:		Facility Name:		Project #:			
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Index #	Stage 1 Required (Select with "X")	ON-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)

Structural

Foundation

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

Concrete

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



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



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



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C-N3		Access Floors CBC 1705A.13.5.1 Anchorage of access floor systems					
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)					



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Facility #:		Facility Name:		Project #:			
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Index #	Stage 1 Required (Select with "X")	ON-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)	HCA/OSHPD Use (Initial/Date)
Labeling							
C-E6		Arc Flash Hazard Warning CEC 110.16(A)					
User Defined Electrical Special Inspections							
C-EU01							
C-EU02							
Plumbing							
User Defined Plumbing Special Inspections							
C-PU01							
C-PU02							
Fire Protection and Life Safety System							
Fireproofing and Fire Stopping							
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					
Smoke Control Systems							
C-FP5		Smoke Control Systems CFC 909.18.8, CBC 1705A.14.3.1, & 1705A.19 Ductwork and operation					
Sprinklers							
C-FP6		Sprinkler System Piping NFPA 13-2022 Sect 7.5.2 Welded pipe and fittings					
Standpipe Systems							
C-FP7		Standpipe System Piping NFPA 14-2019 Sect 4.4.2 Welded pipe and fittings					
Fire Door, Fire Shutter, and Fire Windows							



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Facility #:		Facility Name:		Project #:			
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Index #	Stage 1 Required (Select with "X")	ON-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)	HCA/OSHPD Use (Initial/Date)
C-FP8		Fire Door, Fire Shutter, and Fire Windows NFPA 80-2019 5.1.4, 5.2 Inspection and labeling					
Portable Fire Extinguishing Equipment							
C-FP9		Portable Fire Extinguishers CFC 906 & CCR, Title 19, Division 1, Sect 3.29(a)-(d)					
Exterior Finish Systems							
C-FP10		Exterior insulation and finish systems (EIFS) CBC 1705A.17 EIFS applications					
User Defined Fire Protection and Life Safety System Special Inspections							
C-FU01							
C-FU02							
Architectural							
Exterior Finish Systems							
C-A2		Water-Resistive Barrier Coating CBC 1705A.17.1 ASTM E2570 barrier coating when installed over a sheathing substrate					
Signage							
C-A3		Exit Signs CBC 1013.1 Location, illumination and physical characteristics					
C-A4		Accessible Signage CBC 11B-703.1 Visual and tactile requirements					
Roof Coverings							
C-A5		Substrate for Roof Coverings CBC 1507 Requirements for Roof Coverings					
C-A6		Installation of Roof Coverings CBC 1506 Materials					
User Defined Architectural Special Inspections							
C-AU01							
C-AU02							
Non-Residential Certificate Of Acceptance (NRCA)							
Covered Processes							



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Facility #:		Facility Name:		Project #:			
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Index #	Stage 1 Required (Select with "X")	ON-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)
C-NRCA1		Compressed Air California Energy Code 2022-CEC-NRCA-PRC-01-F: https://www.energy.ca.gov/filebrowser/download/4913			Responsible Designer Or Installing Contractor		
C-NRCA2		Escalator Speed Control California Energy Code 2022-CEC-NRCA-PRC-13-F: https://www.energy.ca.gov/filebrowser/download/4922			Responsible Designer Or Installing Contractor		
C-NRCA3		Parking Garage Ventilation California Energy Code 2022-CEC-NRCA-PRC-03-F: https://www.energy.ca.gov/filebrowser/download/4915			Responsible Designer Or Installing Contractor		
Envelope							
C-NRCA4		Fenestration Acceptance California Energy Code 2022-CEC-NRCA-ENV-02-F: https://www.energy.ca.gov/filebrowser/download/4942			Responsible Designer Or Installing Contractor		
Lighting							
C-NRCA5		Automatic Daylighting Control California Energy Code 2022-CEC-NRCA-LTI-03-A: https://www.energy.ca.gov/filebrowser/download/5066			Responsible Designer Or Installing Contractor		
C-NRCA6		Demand Response Controls California Energy Code 2022-CEC-NRCA-LTI-04-A: https://www.energy.ca.gov/filebrowser/download/5067			Responsible Designer Or Installing Contractor		
C-NRCA7		Institutional PAF California Energy Code 2022-CEC-NRCA-LTI-05-A: https://www.energy.ca.gov/filebrowser/download/5068			Responsible Designer Or Installing Contractor		
C-NRCA8		Outdoor Lighting Controls California Energy Code 2022-CEC-NRCA-LTO-02-A: https://www.energy.ca.gov/filebrowser/download/5069			Responsible Designer Or Installing Contractor		
C-NRCA9		Shut-Off Lighting Control California Energy Code 2022-CEC-NRCA-LTI-02-A: https://www.energy.ca.gov/filebrowser/download/5065			Responsible Designer Or Installing Contractor		
User Defined Non-Residential Certificate Of Acceptance (NRCA) Special Inspections							
C-NU01							
C-NU02							
Non-Residential Certificate Of Installation (NRCI)							
Electrical							
C-NRCI1		Electric Ready Requirements California Energy Code 2022-CEC-NRCI-ELC-E: https://www.energy.ca.gov/filebrowser/download/5264			Responsible Designer Or Installing Contractor		



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Facility #:		Facility Name:		Project #:			
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Index #	Stage 1 Required (Select with "X")	ON-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)
Envelope							
C-NRCI2		Envelope Component Approach California Energy Code 2022-CEC-NRCI-ENV-E: https://www.energy.ca.gov/filebrowser/download/5265			Responsible Designer Or Installing Contractor		
Lighting							
C-NRCI3		Indoor Lighting California Energy Code 2022-CEC-NRCI-LTI-E: https://www.energy.ca.gov/filebrowser/download/5266			Responsible Designer Or Installing Contractor		
C-NRCI4		Outdoor Lighting California Energy Code 2022-CEC-NRCI-LTO-E: https://www.energy.ca.gov/filebrowser/download/5267			Responsible Designer Or Installing Contractor		
C-NRCI5		Sign Lighting California Energy Code 2022-CEC-NRCI-LTS-E: https://www.energy.ca.gov/filebrowser/download/5268			Responsible Designer Or Installing Contractor		
User Defined Non-Residential Certificate Of Installation (NRCI) Special Inspections							
C-NU01							
C-NU02							
OTHER							
User Defined Special Inspections							
C-OU01							
C-OU02							
C-OU03							
C-OU04							
C-OU05							
C-OU06							
C-OU07							
C-OU08							



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Facility #:		Facility Name:		Project #:			
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Index #	Stage 1 Required (Select with "X")	ON-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)	HCA/OSHPD Use (Initial/Date)
C-OU09							
C-OU10							
END OF ON-SITE SPECIAL INSPECTIONS							



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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)	HCA/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					



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



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



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		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)	HCA/OSHPD Use (Initial/Date)
D-AU01							
D-AU02							
Mechanical							
User Defined Mechanical Special Inspections							
D-MU01							
D-MU02							
Electrical							
User Defined Electrical Special Inspections							
D-EU01							
D-EU02							
Plumbing							
User Defined Plumbing Special Inspections							
D-PU01							
D-PU02							
Fire Protection and Life Safety System							
User Defined Fire Protection and Life Safety System Special Inspections							
D-FU01							
D-FU02							
OTHER							
User Defined Special Inspections							
D-OU01							
D-OU02							



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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-OU03								
D-OU04								
D-OU05								
D-OU06								
D-OU07								
D-OU08								
D-OU09								
D-OU10								
END OF OFF-SITE SPECIAL INSPECTIONS								



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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)
California Energy Code required compliance forms have been moved to Section C: On-Site Special Inspections				



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SECTION F			CONSTRUCTION VERIFICATION									
Facility #:	Facility Name:		Project #:									
VERIFIED CONSTRUCTION INSPECTION AND OBSERVATION REPORTING												
REFERENCE NUMBER	PROJECT STAGE(S), MILESTONE, OR INTERVAL (Clearly indicate which Stage(s) apply to which Milestone/Interval)	VERIFIED COMPLIANCE REPORT REQUIRED AS INDICATED (Form HCAI-OSH-123) (See "PERSONAL KNOWLEDGE" as defined in California Administrative Code, Section 7-151)										HCAI/OSHPD Use (Initial/Date)
		GEOR	AOR	SEOR	MEOR	EEOR	CONT	IOR	SP INSP	TEST LAB		
	Clear all plan review Outstanding Items List (OIL) Items											
	Installation of temporary equipment											
	Removal of temporary equipment											
	Substantial Compliance (Remodel, Renovations, Maintenance projects, Equipment Replacement)											
	Certificate of Occupancy (New Buildings, Additions, Changes in Occupancy)											
	Construction Final											
ACRONYMS:	GEOR - Geotechnical Engineer of Record MEOR - Mechanical Engineer of Record SP. INSP - Special Inspector		AOR - Architect of Record EEOR - Electrical Engineer of Record IOR - Inspector of Record				SEOR - Structural Engineer of Record CONT O/B - Contractor or Owner/Builder Test Lab – Engr. For the approved agency					



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[illegible]



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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:			
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".			



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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>Samples of Test and Special Inspection Reports are <i>NOT</i> required for laboratories approved through OPAA Program</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>NOTE: This Test, Inspection, and Observation Report shall be approved by HCAI field personnel prior to start of construction.</p>			
Architect/Engineer of Record (Print Name)		Professional License #	Architect/Engineer of Record (Signature)
			Date
FOR HCAI/OSHPD FIELD STAFF USE			
TIO Program Approved by HCAI Field Staff:			
<p>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. 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>			



Testing, Inspection, and Observation Program

2022 California Building Standards Code - OSHPD 1

SECTION J		CHANGES TO THE TIO PROGRAM			
Facility #:	Facility Name:	Project #:			
Notes: 1) A signature below indicates that the DPOR has verified the acceptance statements in Section I of this Form are applicable to any approved agencies/testing laboratories and special inspectors added. 2) All changes shall be approved as amended construction documents per CAC 7-153, or "concurred with" as non-material alterations per CAC 7-153(b), by HCAI prior to proceeding with the related work. 3) Structural Engineer of Record must only enter initials/date for changes that impact structural.					
REVISION NUMBER	SYNOPSIS OF CHANGE	Architect/Engineer of Record (Initial/date)	Structural Engineer of Record (Initial/date)	DATE of Effective Change	HCAI/OSHPD Concurrence (Initial/Date)