



## Testing, Inspection, and Observation Program

### 2019 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 (2019 CBC 1224.1).*

SECTION A		PROJECT INFORMATION	
<b>Facility #:</b>	<b>Facility Name:</b>	<b>Project #:</b>	
17282	Arrowhead Regional Medical Center	S222348-36-00	
<b>Street Address:</b>	400 N. Pepper Avenue		
<b>City:</b>	Colton	<b>County:</b>	San Bernardino
<b>Record Name (Scope of Project):</b>		Mobile SPD Trailer	
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			
Testing, Inspection, and Observation Stages			
<b>Stage No.</b>	<b>Stage Name</b>	<b>Stage Scope / Description</b>	
1			
DESIGN PROFESSIONAL OF RECORD RESPONSIBILITY			
<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><b>Construction shall not commence until the health facility has obtained from HCAI "TIO Program Approval". (CAC Section 7-135(a)3)</b></p>			



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SECTION 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 #:		
17282		Arrowhead Regional Medical Center			S222348-36-00		
Index #		Stage 1 Required (Select with "X")		TESTS		Select with "X" or provide required OPAA information:	
				Samples of Test & Inspection Reports Included		OPAA No. and Expiration Date	
				Responsible Approved Agency And/Or Individual		Compliance by IOR Verification by IOR (Initial/Date)	
				HCAI/FDD Use (Initial/Date)			
<b>STRUCTURAL TESTS</b>							
<b>Concrete</b>							
B-C1	X	Concrete CBC 1705A.3, 1903A.6 & 1910A.1; ACI-318 1.9.1 & 26.4 Cementitious materials			TBD		
B-C14	X	Post-installed anchors CBC 1910A.5 Installation verification test (includes adhesive, shot pins and mechanical anchors)			TBD		
<b>ELECTRICAL TESTS</b>							
B-E1	X	Ground Fault Protection of Equipment CEC 230.95(C) & 517.17(D)			TBD		
B-E6	X	Essential Electrical System Coordination Study CEC 517.31(G) & 700.32			TBD		
B-E14	X	Insulation Testing CEC 110.7, 2018 NFPA 99 §7.4.1.2.2			TBD		
B-E16	X	Temporary Installation Grounding CEC 590.6			TBD		
B-E22	X	Polarity Test			TBD		
<b>PLUMBING TESTS</b>							
B-P4	X	Existing sewers and drains CPC 102.4.1, 105.3, 105.3.2, & 712.0 Tested for conformance with requirements for new work			TBD		
B-P5	X	Water supply system CPC 105.3, 105.3.2, & 609.4 Pressure tested prior to covering or concealment			TBD		
B-P6	X	Plumbing, drainage, and venting systems CPC 105.3, 105.3.2, & 712.0 Water or air tested prior to use, covering or concealment. No air test for plastic piping.			TBD		
B-P7	X	Building sewer CPC 105.3, 105.3.2, 712.0 & 723.0 Water or air tested prior to use, covering or concealment. No air test for plastic piping.			TBD		
B-P14	X	Backflow prevention devices and assemblies CPC 603.2 & 603.4.2 Assembly tested			TBD		
<b>FIRE PROTECTION AND LIFE SAFETY SYSTEMS</b>							
B-PP1	X	Fire Alarm CFC 901.5 & CFC 907.7 NFPA 72-2016 §14.4 Acceptance and Reacceptance Testing			TBD		



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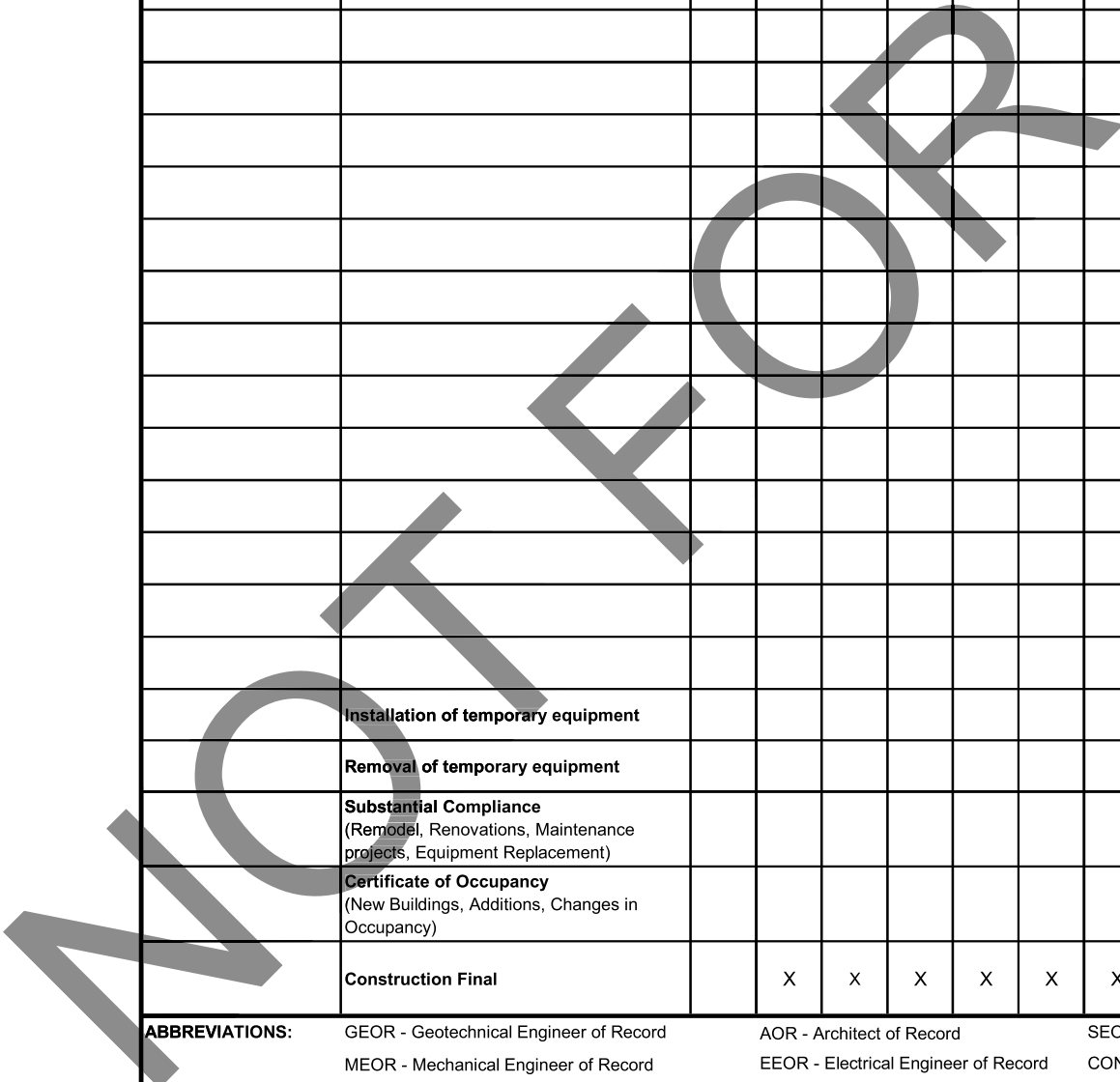
<b>SECTION C</b>		NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.					
Facility #:	Facility Name:	Project #:					
17282	Arrowhead Regional Medical Center	S222348-36-00					
		Select with "X" or provide required OPAA information:					
Index #	Stage 1 Required (Select with "X")	<b>ON-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/FDD USE (Initial/Date)
<b>STRUCTURAL SPECIAL INSPECTIONS</b>							
<b>Concrete</b>							
C-C1	X	<b>Concrete</b> CBC 1705A.3; ACI-318 26.5.2 & 26.13 Placement of concrete			TBD		
C-C3	X	<b>Concrete</b> CBC 1705A.3; ACI-318 26.4 Mix Design			TBD		
C-C5	X	<b>Concrete</b> CBC 1705A.3 CIP & Post-installed anchors			TBD		
<b>Steel</b>							
C-S2	X	<b>Steel</b> CBC 1705A.2.5 & 1705A.12.1 Shop and field welding			TBD		
<b>Wood</b>							
C-W4	X	<b>Wood</b> CBC 1705A.11.1 & 1705A.12.2 Nailing, screw attachment, bolting, anchoring, field gluing operations and other fastening			TBD		
<b>ELECTRICAL INSPECTIONS</b>							
C-E1	X	<b>Available Fault and Short-Circuit Current Field Marking</b> CEC 110.16(B), 110.24(A), 620.51(D)(1), 700.5(E)			TBD		



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<b>SECTION F</b>		<b>CONSTRUCTION VERIFICATION</b>										
Facility #:	Facility Name:						Project #:					
17282	Arrowhead Regional Medical Center						S222348-36-00					
VERIFIED CONSTRUCTION INSPECTION AND OBSERVATION REPORTING												
REFERENCE NUMBER	PROJECT STAGE(S), MILESTONE, OR INTERVAL <small>(Clearly indicate which Stage(s) apply to which Milestone/Interval)</small>	VERIFIED COMPLIANCE REPORT REQUIRED AS INDICATED <small>(Form OSH-FD-123) (See "PERSONAL KNOWLEDGE" as defined in California Administrative Code, Section 7-151)</small>										HCAI/FDD USE
		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											
	<b>Substantial Compliance</b> <small>(Remodel, Renovations, Maintenance projects, Equipment Replacement)</small>											
	<b>Certificate of Occupancy</b> <small>(New Buildings, Additions, Changes in Occupancy)</small>											
	<b>Construction Final</b>		X	X	X	X	X	X				
<b>ABBREVIATIONS:</b>		GEOR - Geotechnical Engineer of Record			AOR - Architect of Record			SEOR - Structural Engineer of Record				
		MEOR - Mechanical Engineer of Record			EEOR - Electrical Engineer of Record			CONT O/B - Contractor or Owner/Builder				
		SP. INSP - Special Inspector			IOR - Inspector of Record			Test Lab – Engr. For the approved agency				






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SECTION H	HCAI REVIEWED	
Facility #:	Facility Name:	Project #:
17282	Arrowhead Regional Medical Center	S222348-36-00

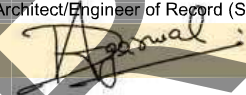
**NOTE: When a structural engineer has been delegated responsibility for a portion of this project his or her signature is also required.**

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.

David W. Clarke		12/28/2022
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Architect/Engineer of Record (Print Name)	Architect/Engineer of Record (Signature)	Date
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Dhawal Agarwal		12/28/2022
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Structural Engineer of Record (Print Name)	Structural Engineer of Record (Signature)	Date
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**FOR HCAI USE**

TIO Program Reviewed by HCAI Plan Review Staff:



**TIO REVIEWED**

Department of Health Care Access & Information  
Office of Statewide Hospital Planning & Development

7/12/2023, 12:00:15 PM


S222348-36-00

**Allen Cheng**

**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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<b>SECTION I</b>	<b>TIO PROGRAM APPROVAL</b>		
Facility #:	Facility Name:	Project #:	
17282	Arrowhead Regional Medical Center	S222348-36-00	
<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 (2019 CBC 1224.1).</p>			
<p align="center"><b>Samples of Test and Inspection Reports are NOT required for tests performed by 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 testing agency per CAC 7-149(a).</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 (c). 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>			
David W. Clarke	C21219		12/28/2022
Architect/Engineer of Record (Print Name)	Professional License #	Architect/Engineer of Record (Signature)	Date
<b>FOR HCAI FIELD STAFF USE</b>			
<p>TIO Program Approved by HCAI Field Staff:</p>			
<p><b>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".</b></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>			



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B-PP6	X	<b>Fire sprinkler</b> CFC 901.5 & NFPA 13-2016 Chapter 25 Acceptance testing – Underground piping			TBD	
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NOT FOR BID



2020 West El Camino Avenue,  
Suite 800  
Sacramento, CA 95833

355 South Grand Avenue,  
Suite 1900  
Los Angeles, CA 90071



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<b>SECTION J</b>	<b>SUMMARY OF CHANGES TO THE TIO PROGRAM</b> <small>NOTE: Note 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.</small>				
Facility #:	Facility Name:			Project #:	
17282	Arrowhead Regional Medical Center			S222348-36-00	
<b>TESTING, INSPECTION, AND OBSERVATION PROGRAM NON-MATERIALLY ALTERING CHANGES BY THE ARCHITECT OF RECORD / ENGINEER OF RECORD IN RESPONSIBLE CHARGE</b>					
<small>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.</small>					
REVISION NUMBER	SYNOPSIS OF CHANGE	Architect/Engineer of Record Signature (Initial/date)	Structural Engineer of Record Signature (Initial/date)	DATE of Effective Change	HCAI FDD CONCURRENCE (Initial/date)
1	Added B-E22 & B-P14	<i>Dave 4/25/23</i>	—	4/25/2023	

NOT FOR