

DIVISION OF THE STATE ARCHITECT



DSA 201

An Overview of the Construction Oversight, and Project Closeout and Certification Processes

June 2007

Introduction

- Provide an overview of DSA construction oversight, and project closeout and certification
 - I. Pre-Construction
 - II. Construction
 - III. Closeout and Certification
- Goal for all projects be DSA-certified



Pre-Construction

 A "Structural Testing and Inspections" list (T&I list), if applicable, must be submitted by the Design Professional at the completion of plan review

T & I List, SSS 10 3-1

STRUCTURAL TESTS AND INSPECTIONS

Testing Laboratory:			Date:		Fil	File Number:	
Name:					Ap	plication Number:	
District / Owner:					•		
Architect:							
Structural Engineer:							
The following tests and ins	pections, as ch	ecked, will be	required as o	detailed in app	licable specificati	ons.	
COMPACTED FILL	Concrete	Shotcrete	Grout	Mortar			
Fill material, acceptance tests		Test of aggregates for mix design only			only		
Compaction control, continuous		Suitability tests of aggregates as detailed			letailed below		
☐ Compaction tests only as ordered					Mix designs		
☐ Bearing capacity of compacted fill					Continuous batch plant inspection		
REINFORCING STEEL					Inspect placing		
Sample and test bar steel					Sample		
☐ Sample and test mesh					Compression tests		
☐ Inspect placing at job					Pick up samples at job		
STRUCTURAL STEEL					Samples delivered to laboratory		
Sample and test as detailed below		Deliver sample forms to job site					
Shop fabrication inspection					Sample and test cement		
Field erection inspection		L Suitability Tes	ts	Concrete	Shotcrete	Mortar	Grout
☐ Inspection of welds – Shop	Sodium	Sodium sulphate					
☐ Inspection of welds – Field	Structu	Structural strength					
☐ Inspection of bolting – Shop	☐ Los An	geles rattler					
☐ Inspection of bolting – Field	☐ Clay (H	lydrometer me	ethod)			+	
Sample and test high strength holts and washers	□ Reactiv	□ Reactivity tests					+

Pre-Construction

- Plans have been approved by DSA
- DSA scans original drawings and specifications and issues "Approval of Plans" letter
- Regulations prohibit signing a contract prior to plan approval

"Approval of Plans" Letter



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DEPARTMENT OF GENERAL SERVICES

Division of the State Architect - Sacramento Office

11/30/2006 - APPROVAL OF PLAN(S)

DR. Terry Bradley CLOVIS UNIFIED SCHOOL DISTRICT 1450 HERNDON AVENUE CLOVIS 93611-0599

Project: CLOVIS WEST H.S. (CLOVIS UNIFIED SD)

Total Scope of Project: Reconstruction of Pool boiler bldg.

Increment #: 0

Application #: 02-108352

File #: 10-H3

Drawings and specifications for the subject project have been examined and stamped by the Division of the State Architect (DSA) for identification on <u>11/30/2006</u>. This letter constitutes the "written approval of the plans as to safety of design and construction" required before letting any contract for construction, and applies only to the work shown on these drawings and specifications. The date of this letter is the DSA approval date.

Approval is limited to the particular location shown on the drawings and is conditioned on construction starting within one

Pre-Construction

Roles and Responsibilities

- District
- Design Professional
- Inspector
- DSA

Pre-Construction

District Responsibilities

- Recommend a pre-construction meeting be conducted to identify and discuss regulatory responsibilities of Design Professionals, testing lab, contractor, and inspector
- Manage the construction and closeout responsibilities to ensure project certification
- Select and employ an inspector
- Verify inspector has been DSA approved for project prior to signing a contract with inspector
- Verify testing lab is DSA approved prior to signing a contract with testing lab

Project Inspector Qualification Record

Rev. 3-27-03 Project Inspector
Qualification Record DSA-5 CALIFORNIA DEPARTMENT OF GENERAL SERVICES DIVISION OF THE STATE ARCHITECT To be completed by the Inspector, Form must be signed by Inspector, Owner, Design Professional in General Responsible Charge, and Structural Engineer. To be submitted to DSA by the Design Professional in General Responsible Charge at least 10 days prior to start of work. 1. Inspector Information DSA File No. DSA Application No. Will the inspector be in the ☐ Yes ☐ No employ of the school district? Phone #s () (If no, indicate inspector's employer: Date of Birth - -Type of DSA approval requested: Project Inspector Relocatable Building In-plant (RBIP) Other Project Inspector Class ______ DSA Certificate # _____ Expiration Date _____ 2. Project Information School District/Owner Project Name (School) Scope of Work Estimated Cost &

Pre-Construction

Design Professional Responsibilities

- Obtain timely DSA approval of all addenda and any revisions to the plans
- Submit contract information form (DSA-102) for each contractor and any Construction Managers

Contract Information



STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES DIVISION OF THE STATE ARCHITECT

FORM		
DS/A	102	
	Rev 9.0	9

	CONTRACT INFORMATION File prior to start of construction Submit information for each contract on a separate form.		File #
			Арр.#
oject Name	•	•	•
rict / Owner		1	
ntract Amount :	\$	Start of Construction (Date	a)
ractor & Addre	988		
ontractors: (A	ttach list with names and addresses.)		
ing Laboratory	& Address		
T.	Exp. Date:	I have verified that the lab is em School District per Section 4.33	ployed directly by the 5 (b) of Title 24, Part 1:
h.	Exp. Date.	School District per Section 4-33	о (в) от нае 24, ⊢ал 1: Ш
ector & Addres	58		
e of Contract	(List buildings. In addition, complete items	1 through 4 below)	
		- ·	

Pre-Construction

Inspector Responsibilities

Inspector should notify DSA when construction starts



Roles and Responsibilities

- DSA Field Staff
- Inspector
- Design Professional
- Contractor
- Testing Lab

DSA Field Staff Responsibilities

- Provides oversight of project inspectors, testing labs, and design professionals
- Visits construction sites and prepare "Field Trip Notes"
- Approves changes to DSA-approved plans
- Reviews lab reports and inspector reports
- Evaluates inspector performance

DSA Field Supervision Pilot, Sacramento Regional Office

- Need for additional DSA field staff
- Construction Supervisors being employed in addition to currently used District Structural Engineer classification
- Structural Engineers visit site at structural milestones
- Construction Supervisors will visit site at non-structural milestones including fire & life safety, access, and MEP
- After pilot completion, intent to roll-out classification to all DSA Regional Offices

Inspector Responsibilities

- Obtain personal knowledge through continuous inspection
- Provide written semi-monthly reports to design professionals, district, and DSA
- Participate in resolution and report the status of DSA field trip note issues
- Maintain a current written record of all work inspected
- Monitor the testing and special inspection program

Design Professional Responsibilities

- Observe the construction
- Obtain DSA approval of deviations from the approved plans
 - 1. Change Orders
 - 2. Field Changes (RFIs, PCOs, etc.)
- Obtain DSA approval on all deferred approvals prior to installation
- Obtain timely resolution and/or DSA approval on deviations
- Resolve DSA field trip note issues

Contractor Responsibilities

- Construct the project per the approved plans
- Timely correction of deviations noted by inspector or design professional
- Timely submittal of deferred approval items

Testing Laboratory Responsibilities

- Obtain DSA approval of special inspectors prior to start of inspections
- Perform material testing and special inspections
- Submit all material test and special inspection <u>reports</u> to DSA, design professionals, structural engineers, and inspector



What is Certification?

 A letter issued by DSA certifying that the building project has been completed in accordance with the requirements as to the safety of design and construction of Education Code Sections 17280-17316 and 81130-81147

Why is Certification Important?

- School Board liability
- DSA will be unable to approve plans affecting uncertified construction at any time in the future

- Closing documents should be obtained and submitted to DSA as they become obtainable
- Closeout is initiated by the DSA field engineer (i.e., final recommendation)

- DSA will issue a 90 day letter <u>requesting</u>
 outstanding documents or unresolved issues that are required
- All outstanding documents and issues must be resolved prior to DSA's issuance of a letter of certification

90-Day Letter



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DEPARTMENT OF GENERAL SERVICES Division of the State Architect – Sacramento Office

11/22/2006 90-DAY LETTER

MR. GARY GOLDSWORTHY 2510 DOUGLAS BLVD SUITE 400 ROSEVILLE CA 95681

Project: SIERRA OAKS ELEM (SAN JUAN UNIFIED SD)

Scope: ALTERATION TO TWO CLASSROOM BLDGS. (A&B), KINDERGARTEN BLDG.(D), AND

LIBRARY/OFFICE BLDG. (E)

Application #: 02-107695 File ld #: 34-69

Dear MR. GOLDSWORTHY:

It is the understanding of the Division of the State Architect that the subject project is essentially complete.

The documents listed on the attached sheet are required before this office can issue a letter showing compliance of the construction with the statutes. This will be our only request for the missing documents. If all missing documents are not received within 90 days from the date of this letter, the project will be closed without certification of construction. There will be a \$150 fee for reopening a closed file.

By copy of this letter, the school board/owner is advised of their liability for not complying with the requirements for

Roles and Responsibilities

- District
- Design Professional
- Contractor
- Inspector
- Testing Lab

District Responsibilities

- Submit a Notice of Completion (NOC) for each contract
- Submit fee based on DSA invoice

Design Professional Responsibilities

- Resolve any outstanding issues related to the 90-day letter
- Submit a Verified Report (DSA-6A/E)

Verified Report

check all Final - Work 100% complete pplicable Work not completed (indicate at exes: Building(s)		Terminating Work Stopped	DSA File No. DSA Application No.	
This report includes all construction work throu chool District/Owner	ugh the date of	Project Name (School	th day	_year
Scope of Work		Contract Amount \$		
NDICATE IN EACH APPLICABLE CATEGORY	% COMPLETE	INDICATE IN EACH AP		% COMPLETE
Site work			Fire Alarm System	
Foundation		Fire Sp	rinklers & Suppression Systems	
Structural Frame			Access, Gates & Fire Flow	
Electrical (including grounding systems)			Accessible Parking	
Plumbing			Ramps/Elevators/Lifts	
Mechanical			Accessible Restrooms	
Finishes	shes Accessibility Signage			
Total Project Completion (estimate total	percentage of o	completion for projec	cts where work is not complete):	

Contractor Responsibility

Submit a Verified Report (DSA-6)

Inspector Responsibility

Submit a Verified Report (DSA-6)

Verified Report

CALIFORNIA DEPARTMENT OF GENERAL SERVICES DIVISION OF THE STATE ARCHITECT



VERIFIED DSA-6

Pay 1-02

Both the Contractor and the Inspector must submit a separate copy of this form directly to DSA. File this report at completion of project, when services in connection with the project are terminated, when work stops for more than one month, or when any building of the project is occupied.

Check all		Terminating Work Stopped	DSA File No. DSA Application No.		
This report includes all construction work throu School District/Owner	mont	h day	_ year		
Scope of Work	Contract Amount \$				
INDICATE IN EACH APPLICABLE CATEGORY	% COMPLETE	INDICATE IN EACH APP	LICABLE CATEGORY	% COMPLETE	
Site work			Fire Alarm System		
Foundation		Fire Spri	nklers & Suppression Systems		
Structural Frame			Access, Gates & Fire Flow		
Electrical (including grounding systems)		Accessible Parking			
Plumbing			Ramps/Elevators/Lifts		
Mechanical			Accessible Restrooms		
Finishes			Accessibility Signage		
Total Project Completion (estimate total percentage of completion for projects where work is not complete):					
★List work to be completed (attach additional pages as necessary):					

Testing Laboratory Responsibilities

- Submit Lab Verified Report (DSA-291)
- Submit Special inspection Verified Reports (DSA-292)
- Submit a Geo-technical Verified Report (DSA-293)

Laboratory Verified Report (LVR)



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DSA-291 Rev. 08/07/08

DIVISION OF THE STATE ARCHITECT

Laboratory Verified Report (LVR)

Note: This form must be submitted by the DSA approved testing laboratory within 14 days of the conclusion of the testing program, or when work has stopped for more than one month, or if the services of the laboratory have been terminated for any reason.

A.	Re: Project Name School Name To:	DSA File #			
	School Dist. Address	☐ Final-Work 100% Complete ☐ In-Progress:% Complete ☐ Terminating:% Complete			
	Attention				
В.	It is my professional opinion that all of the structural tests required by the Division of the State Architect (DSA) approved documents for the project identified in Section A were performed. Any tests of which I am aware that were not performed are listed on an attachment to this report. I am of the professional opinion that the tests were performed in accordance with the requirements of the DSA approved documents.				
C.	All reports were sent to all entities as required by Section 4-335 o	f Title 24, Part 1.			

Special Inspection Verified Report (SIVR)



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DSA-292

DIVISION OF THE STATE ARCHITECT

Special Inspection Verified Report (SIVR)

Note: This form must be submitted by the Special Inspector within 14 days of the conclusion of work requiring special inspection, or when work has stopped for more than one month, or if the services of the Special Inspector have been terminated for any reason.

A.	Re: Project Name School Name To:	DSA File #		
	Address Attention	Final-Work 100% Complete In-Progress:% Complete Terminating:% Complete		
B.	I personally performed all construction inspections described in Section C. My inspect- tions were performed in accordance with the requirements of the DSA approved documents.			
C.	My work included continuous inspection of construction in accordance with the "DSA approved" documents as follows (list all special inspections performed and/or specific			

Geotechnical Verified Report (GVR)



STATE OF CALIFORNIA . DEPARTMENT OF GENERAL SERVICES

FORM

DSA-293

ney, 05/07/05

Geotechnical Verified Report (GVR)

DIVISION OF THE STATE ARCHITECT

Note: This form must be submitted by the Responsible Geolechnical Engineer within 14 days of the conclusion of the testing / inspection program, or when work has stopped for more than one month, or if the services of the Geolechnical Engineer have been terminated for any reason.

A.	Ro: Project Mare School Mare To:	DSA App. #		
	School Diet. Address	Final-Work 100% Complete In-Progress:% Complete Tenninsting:% Complete		
	Attentice			
B.	It is my professional opinion that all of the engineered fill tests and inspections required by the Division of the State Architect (DSA) approved documents for the project identified in Section A were performed. Any tests of which I am aware that were not performed are listed on an attachment to this report.			
	I am of the professional opinion that the tests were performed in accordance with the requirements of the DSA approved documents.			

Closing Tips

- Don't wait for the 90-day letter to start collecting documents
- A closing meeting with DSA may be an effective way of understanding requirements on a specific project
- Submit only what is requested in the 90-day letter

Closing Tips (cont.)

- Do not submit duplicate copies
- Submit closing documents in a single submittal when possible
- Do not submit closing documents with different application numbers under a single submittal
- If a document is rejected, ensure that you understand why
- If a document is unobtainable or not required, provide an explanation of why

Closing Letters

- #1 Close of File with Certification
- #2 Close of File with Certification (missing documents)
- #3 Close of File without Certification (missing documents)
- #3A Close of File without Certification (unpaid fee)
- #4 Close of File without Certification (with known safety deficiencies)

#1 Letter: Close of File with Certification



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DEPARTMENT OF GENERAL SERVICES Division of the State Architect – Sacramento Office

1/9/2007

CERTIFICATION & CLOSE OF FILE

MR. WILLIE CHANDLER CORNING UNION HIGH SCHOOL DISTRICT 643 BLACKBURN AVE. CORNING CA 96021

Project: CORNING HIGH (CORNING UNION HIGH SD)

Scope: CONSTRUCTION OF BLEACHERS FOR GYMNASIUM BUILDING

Application #: 02-107548 File #: 52-H1

Dear MR. CHANDLER:

The Department of General Services' records indicate that the construction of the referenced project has been completed in accordance with design documents approved by the Department, and that all the Verified Reports covering the construction have been received.

Therefore, the Department of General Services certifies as follows:

This project is in compliance with California State regulations as to the safety of design and construction of public schools, and for the accommodation of persons with disabilities.

#2 Letter: Close of File with Certification

- This letter is issued when some documents are unobtainable
- Ed Code allows DSA to issue certification when some documents are unobtainable (Sections 17315 & 81147)
- Alternate justification such as review of reports in file and/or additional tests or inspections may be required
- DSA IR A-2 provides general information on obtaining certification when some documents are unobtainable
- This letter can be requested by district

#2 Letter: Close of File with Certification



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S DEPARTMENT OF GENERAL SERVICES Division of the State Architect - Sacramento Office

1/4/2007

PER EDUCATION & CLOSE OF FILE PER EDUCATION CODE 17315(b)

MR. GEORGE HINDS LE GRAND UNION HIGH SCHOOL DISTRICT 12961 LE GRAND ROAD LE GRAND CA 95333

Project: LE GRAND HIGH (LE GRAND UNION HIGH SD)

Scope: CONSTRUCTION OF CANOPY

Application #: 02-107565 File #: 24-H4

Dear MR. HINDS:

The Department of General Services' records indicate that construction of the referenced project has been completed in accordance with design documents approved by the Department. While some report documents have not been received, the Department of General Services has determined that certification is appropriate as the requirements of section 17315(b) of the Education Code have been met.

Therefore, the Department of General Services certifies as follows:

#3 Letter: Close of File without Certification



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DEPARTMENT OF GENERAL SERVICES Division of the State Architect - Sacramento Office

12/22/2006

CLOSE OF FILE WITHOUT CERTIFICATION DUE TO EXCEPTION(S)

MR. BENJAMIN DURAN MERCED COMMUNITY COLLEGE DISTRICT 3600 M STREET MERCED CA 95348-2898

Project: MERCED COLLEGE (MERCED COMMUNITY COLLEGE DISTRICT)
Scope: CONSTRUCTION OF (2) - MULTI-USE BLDGS & CLSRM BLDG

Application #: 02-104238 File Id #: 24-C1

Dear MR. DURAN:

The Department of General Services' records indicate that the construction for the referenced project has been substantially completed in accordance with documents approved by the Department. However, the documents listed below have not been received from the responsible entities and therefore the file cannot be completed and the Department of General Services cannot certify this project.

DSA-102 Contract Information for Contractor(s)

#3A Letter: Close of File without Certification (unpaid fee)



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DEPARTMENT OF GENERAL SERVICES

Division of the State Architect - Los Angeles Office

8/30/2006

CLOSE OF FILE WITHOUT CERTIFICATION DUE TO UNPAID FEE(S)

MR. JOSEPH MEHULA LOS ANGELES UNIFIED SCHOOL DISTRICT 333 SOUTH BEAUDRY AVENUE, 23RD FLOOR LOS ANGELES CA 90017

Project: Monte Vista Elementary School

Scope: Alteration to Existing Bldg/s (Fire alarm system)

Application #: 03-100497

Dear MR. MEHULA:

The Department of General Services' records indicate that construction of the referenced project has been completed in accordance with design documents approved by the Department. However, as the outstanding further fees listed below are over 120 days past due, the file cannot be completed and the Department cannot certify the project.

SSS FEE DUE = \$ 85.11 (INVOICE # 03-2216 dated 2/1/06)
ACS FEE DUE = \$ _____ (INVOICE # _____)

TOTAL FEES DUE = \$ 85.11

No further action by our office is anticipated on this project, and regretfully the file is being closed without issuance of

#4 Letter: Close of File without Certification (known safety deficiencies)



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DEPARTMENT OF GENERAL SERVICES Division of the State Architect – Los Angeles Office

11/7/2008

CLOSE OF FILE WITHOUT CERTIFICATION DUE TO DEFICIENCIES

DR. ROBERT FRAISSE CONEJO VALLEY UNIFIED SCHOOL DISTRICT 1400 EAST JANSS ROAD THOUSAND OAKS CA 91362-2133

Project: MANZANITA ELEMENTARY SCHOOL

Scope: CONSTRUCTION OF LUNCH SHELTER (30' X 40' PC 04-104842): SITE IMPROVEMENTS.

(TRASH ENCLOSURE IS NOT PART OF THIS LETTER)

Application #: 03-107821

Dear Dr. Fraisse:

The Department of General Services' records indicate that construction of the referenced project has been substantially completed in accordance with design documents approved by the Department. However, Verified Report documents and/or affidavits required to complete the file have not been received from the responsible entities, and the Division of the State Architect field engineer's final recommendations indicate potential deficiencies which are listed below:

- DSA 6A/E
- DSA 6 (Contractor)
- DSA 6 (Project Inspector)
- DSA 6 & DSA 5 (Welding Inspector)
- 5. DSA 6 & DSA 5 (Steve Payte) Termination
- Laboratory Affidavit , Shop & Field Welding, Hi Strength Bolt, Weighmaster
- 7. Notice of Completion & All Pending Change Orders If Any.
- Deficiency: The construction of the ramp and site work stair have not been inspected by the P.I. no notification was given to the P.I., A.O.R., S.D. and the P.I. are to provide remedy and justification.

As these deficiencies remain uncorrected, the Department of General Services cannot certify this project. No

To obtain certification on a file that has been previously closed without certification

- Request that DSA re-exam a file closed without certification
- Submit \$150 fee and outstanding documents

Resources

DSA Web Site: http://www.dsa.dgs.ca.gov/default.htm

DSA forms: http://www.dsa.dgs.ca.gov/Forms/default.htm

DSA Publications: http://www.dsa.dgs.ca.gov/Publications/default.htm

Education Code Sections 81130-81147: http://www.leginfo.ca.gov/cgi-

bin/calawquery?codesection=edc&codebody=&hits=20

2001 California Building Standards Administrative Code

(Part 1, Title 24, C.C.R.) Sections 4-301 thru 5-301:

http://www.bsc.ca.gov/title_24/documents/Part1/2001_part1.pdf (Pages 38 - 60)

Project Closeout Initiative

- Goal to eliminate project closeout backlog
- Focusing on projects closed without certification
- Internal DSA project closeout procedures under development
- Improvements to DSA management of project closeouts under development
- DSA Academy class offered in the future

THANK YOU!

DSA 201 - June 2007