

**CITY OF SACRAMENTO**

1231 I Street, Sacramento, CA 95814

Permit No: 0104318

Insp Area: 3

Thos Bros: 317G3

Site Address: 4315 MARTIN LUTHER KING BL SAC

Parcel No: 020-0220-005

Sub-Type: TI

Housing (Y/N): N

CONTRACTOR

PANATTONI CONSTRUCTION INC  
8745 FOLSOM BL  
SAC CA 95826

OWNER

CHRISTIAN BROTHERS HIGH SCHOOL  
4315 MARTIN LUTHER KING  
SACRAMENTO CA 95820

ARCHITECT

Nature of Work: 1ST TIME T.I. FOR SCHOOL BLDG(MATH SCIENCE,TECH CLASSES)

**CONSTRUCTION LENDING AGENCY** : I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name \_\_\_\_\_ Lender's Address \_\_\_\_\_

**LICENSED CONTRACTORS DECLARATION**: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class B License Number 759899 Date 4/31/2002 Contractor Signature [Signature]

**OWNER-BUILDER DECLARATION**: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. \_\_\_\_\_ B & PC for this reason: \_\_\_\_\_

Date \_\_\_\_\_ Owner Signature \_\_\_\_\_

**IN ISSUING THIS BUILDING PERMIT**, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 8/30/01 Applicant/Agent Signature [Signature]

**WORKER'S COMPENSATION DECLARATION**: I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

NS I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE COMPENSATION INS FUND Policy Number 713-6577-00 Exp Date 10/01/2001

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 8/30/01 Applicant Signature [Signature]

**WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.**

**THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.**

CITY OF SACRAMENTO

**CERTIFICATE OF OCCUPANCY**

For Information Contact (916) 264-5716

Building Address: 4315 MARTIN LUTHER KING BL Permit No. 0104318

Building Use: SCHOOL BLDG. Occupancy: E-1

Building Owner: CHRISTIAN BROTHERS H.S. Construction Type: V-1HR

Owner Address: SAME, SACRAMENTO Sprinkled?  Yes  No

Portion of Building Occupied: ENTIRE Area: 33884 Sq. Ft.

4/4/02

Date

By:Print

Sign

DENNIS RICHARDSON

CITY BUILDING OFFICIAL

[ Finaled By: DPB,LLS,KR,SB]

*This Certificate, issued pursuant to the requirements of Section 109 of the Uniform Building Code, certifies that at time of issuance the described portion of the building has been inspected for compliance with the Uniform Building Code, as adopted per Title 15 of the Sacramento City Code for the group and division of occupancy and use for which the proposed occupancy is classified. Issuance of this certificate shall not be construed as an approval of a violation of any Codes, or Federal, State and City Laws or Ordinances. Certificates presuming to give authority to such violation shall not be valid. This certificate shall be posted in a conspicuous place on the premises and shall not be removed except by the City Building Official. No changes shall be made in the character of occupancy or use without approval of the City Building Official.*

**POST IN A CONSPICUOUS PLACE**

JAN 17 2002

January 15, 2002

Panattoni Construction  
Attention: Steve Beauchamp  
8745 Folsom Boulevard, Suite 150  
Sacramento, CA 95815-4508

**SUMMARY REPORT**  
**CONSTRUCTION OBSERVATION AND TESTING SERVICES**  
**CHRISTIAN BROTHERS HIGH SCHOOL**  
**CLASSROOM BUILDING**  
4315 Martin Luther King Junior Boulevard  
Sacramento, California  
Reference No. 192-155.01

## INTRODUCTION

In accordance with your request, we have performed construction observation and testing services for the subject project. The project included construction of a two-story metal framed building with an approximate 16,000 square foot lower concrete slab-on-grade floor. In addition, a masonry sign monument was constructed at the site. Our construction testing and observations were performed between January 19 and January 3, 2002. Our firm prepared a Foundation Investigation for the project dated April 14, 2000.<sup>1</sup>

## EARTHWORK OBSERVATION AND TESTING

### *Building Pad Construction*

Following general site clearance, the building pad area was scarified, moisture conditioned and mechanically compacted. Engineered fill was placed in level lifts on the order of eight inches, moisture conditioned and compacted. Maximum fill depths within the building pad were on the order of one foot. Building pad areas appeared stable under earthwork equipment during and following earthwork construction. We understand that, following grading, the building pad was chemically treated.

<sup>1</sup> Raney Geotechnical; "Foundation Investigation, Christian Brothers High School, Science Math and Technology Wing Expansion, 4315 Martin Luther King Junior Boulevard, Sacramento, California"; File No. 192-155; April 14, 2000.

### ***Foundation Excavation Observation***

Our representative observed all building foundation excavations prior to foundation concrete placement. All foundation excavations engaged suitable bearing materials in accord with the recommendations of our referenced report. Foundations appeared to meet or exceed minimum specified dimensions and were clean at the time of our observation.

### ***Pavement Construction***

Pavement subgrade soils were cleared, scarified, moisture conditioned, and compacted. Pavement section aggregate base materials were placed, moisture conditioned, and compacted. All pavement areas appeared stable under earthwork equipment at the time of aggregate base placement.

### ***Trench Backfill Construction***

The subject earthwork included backfilling of on-site sanitary sewer utility trenches. Our observations indicate that the trench backfill materials were mixed, moisture conditioned where necessary and mechanically compacted.

### ***Field Density Testing***

Our representative performed field density tests on building pad, sanitary sewer trench backfill, and pavement section materials in accordance with ASTM Test Designations D2922-91 and D3017-88 (Nuclear Probe Method). Our test data indicate that the upper 8 inches of the chemically treated building pad soils, sanitary sewer trench backfill, and the pavement subgrade soils were compacted to a minimum of 90 percent of the laboratory determined maximum dry density. Pavement area aggregate base materials were compacted to 95 percent relative to the laboratory determined maximum dry density.

### ***Laboratory Compaction Testing***

We performed laboratory compaction tests on representative samples of the soils and aggregate base materials used during construction. The compaction tests were performed in accordance with ASTM Test Designation D1557-91, Methods A or C. The native soil material tested consisted of a reddish brown clayey silt with maximum dry density of 122 pounds per cubic foot at an optimum moisture content of 10.8 percent. The chemically treated native soil material tested with a maximum dry density of 119

pounds per cubic foot at an optimum moisture content of 12.6 percent. The maximum density of the aggregate base material was found to be 128 pounds per cubic foot at an optimum moisture content of 6.0 percent.

## **CONCRETE CONSTRUCTION**

### ***Reinforcing Steel Placement Observations***

Our scope of work included observation of foundation, floor slab, and column reinforcing steel for the subject building. Detailed observations generally were performed one day prior to concrete placement with any corrections being verified by our representative prior to structural concrete placement. All reinforcing steel appeared to be placed in compliance with industry standards and the project plans, for size and placement location.

### ***Concrete Placement Observation***

Our representative observed concrete placement procedures during concrete construction of building foundations, floor slabs, and columns. Concrete truck batch and placement times were recorded to ensure that the concrete was placed within a reasonable period (generally less than 90 minutes). Concrete temperatures were monitored and recorded. Concrete appeared to be placed and consolidated in general accord with industry standards.

### ***Slump Testing***

Our representative performed concrete slump testing during concrete placement. Slump testing was generally performed at least once per 150 cubic yards of concrete in accord with ASTM Test Designation C143-90a, Slump of Portland Cement Concrete. Slump test specimens were obtained in accord with ASTM C172-90, Sampling Freshly Mixed Concrete. Slump test measurements were relayed to the contractor verbally. Our data would indicate that no significant amount of concrete was placed with an excessive slump.

### ***Compressive Strength Testing***

Generally, one set of four test specimens was cast per 150 cubic yards of concrete placed. The test specimens were returned to our laboratory for curing and compressive strength testing. Test specimens were cast, transported, and cured in accord with ASTM

Test Designation C31-91, Making and Curing Concrete Test Specimens in the Field. Test specimens were stored in a humidity room complying with ASTM Specification C511-93. The test specimens were tested in unconfined compression in our laboratory at 7 and 28 days in accord with ASTM Test Designation C39-93a. Copies of concrete compressive strength test data are attached.

## **CONCRETE MASONRY CONSTRUCTION**

### ***Reinforcing Steel and Grout Placement***

Prior to grout placement our representative observed concrete masonry reinforcing steel placement for the sign monument. Reinforcing steel appeared to be placed in accord with the project plans and specifications. Wall grout was mixed at the batch plant and appeared to be thoroughly mixed and flowable at the time of placement. Grout was generally placed in numerous lifts. Grout lifts were completed without significant interruptions.

### ***Grout Testing***

Our representative fabricated grout prisms in accord with ASTM Test Designation C1019, Method of Sampling and Testing Grout, and UBC Standard No. 21-18. The test specimens were delivered to our laboratory for unconfined compressive strength testing. The specimens were tested at 7- and 28-day intervals in accord with ASTM Test Designation C39. Attached are copies of grout compressive strength test results.

## **STRUCTURAL STEEL CONSTRUCTION**

### ***Shop Welding Observations***

Our representative observed structural shop welding for columns and beams. We observed welding materials and workmanship; materials and workmanship appeared to comply with project specifications, industry standards and provisions of the American Welding Society.

### ***Field Welding Observations***

Our representative observed structural field welding for the buildings frame, second floor deck, and exterior light gauge metal framing. Prior to initiation of welding

operations we reviewed qualification certificates of all project welders; our review indicated that the welder's certificates were current and applicable to the various types of project welding. We observed welding materials and procedures; welding procedures, workmanship, and materials appeared to comply with industry standards and provisions of the American Welding Society Structural Welding Code.

Field welds were examined for visual defects or flaws; all welds appeared to be sound. In addition, we checked welded connections for conformance to project plans and specifications; all welds appeared to meet specifications for size, length and type.

### ***High Strength Bolting***

Our representative performed observation of A325 high strength bolts for the building's frame. Prior to installation, a sample lot of the high strength bolts to be used on the project were tested in a tension-measuring device. These bolts achieved or exceeded the minimum required pretension. We checked bolted connections for conformance to project plans and specifications; our observations indicate that the high strength bolts were installed in accord with industry standards and the project plans.

### ***FIREPROOFING OBSERVATIONS***

Our representative measured the thickness and density of spray applied fire proofing for the columns, beams, and roof deck at the subject site. Density samples were collected and tested in accordance with ASTM E 605. Density samples were sealed at the site and transported to our laboratory for testing. Fireproofing thickness and density met or exceeded the minimum requirements of the project specifications and the manufactures recommendations.

### ***EPOXY OBSERVATIONS***

Our representative observed the pre-drilled holes used for epoxy installation of rebar dowels at existing foundation concrete. The pre-drilled holes appeared to meet depth requirements and were brushed and blown out prior to dowel installation and epoxy placement. Our representative observed the mixing and application of epoxy at the pre-drilled holes. Our observations indicate that epoxy installation was performed in accordance with the applicable ICBO report and the project plans.

Page 6  
Christian Brothers High School  
Raney Reference No. 192-155.01  
January 15, 2002

### LIMITATIONS

Horizontal and vertical limits of the described work were determined by others. We cannot guarantee construction, nor should our work or this letter be construed as relieving the contractors from their primary responsibility to conform to contractual agreements and sound engineering practice.

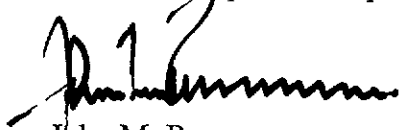
Should you have any questions regarding this letter or require any further information, please contact our office.

Very truly yours,

**RANEY GEOTECHNICAL INC.**



Bob McCormick  
Structural Inspection Supervisor



John M. Raney  
Registered C. E. No. 23453  
Geotechnical Engineer No. 708

Attachments: Compressive Strength Reports

(2) Addressee

BM/JMR/JB



# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-00226  
**PROJECT NAME:** Christian Brothers High School  
**LOCATION:** 4315 Martin Luther King Jr. Boulevard  
**PERMIT NO:**  
 Panattoni Construction, Inc.  
 Attention: Steve Beauchamp  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	3/16/01	<b>TICKET #:</b>	084672
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	A5041A
<b>SAMPLED BY:</b>	Mike H.	<b>SLUMP:</b>	4 inches
<b>SPEC. STRENGTH:</b>	3000 psi	<b>AIR TEMP:</b>	76 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	72 Degrees F
<b>AIR ENTRAINMENT</b>			
<b>LOCATION:</b> Footing - C/2			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	71900	28.27	3/23/01	2543
B	28	116100	28.27	4/13/01	4107
C	28	119700	28.27	4/13/01	4234
HOLD	56		28.27	5/11/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

**Notes:**

**CC:**

Teichert & Son, Inc.

Reviewed By: 



# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-00269  
**PROJECT NAME:** Christian Brothers High School  
 Panattoni Construction, Inc.      **LOCATION:** 4315 Martin Luther King Jr. Boulevard  
 Attention: Steve Beauchamp      **PERMIT NO:**  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	3/26/01	<b>TICKET #:</b>	085606
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	A5041A
<b>SAMPLED BY:</b>	Doug L.	<b>SLUMP:</b>	3.5 inches
<b>SPEC. STRENGTH:</b>	3000 psi	<b>AIR TEMP:</b>	72 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	68 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Footings			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	75700	28.27	4/2/01	2678
B	28	113200	28.27	4/23/01	4004
C	28	117900	28.27	4/23/01	4170
HOLD	56		28.27	5/21/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: 

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-00796

**PROJECT NAME:** Christian Brothers High School

Panattoni Construction, Inc.      **LOCATION:** 4315 Martin Luther King Jr. Boulevard  
 Attention: Steve Beauchamp      **PERMIT NO:**  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	7/10/01	<b>TICKET #:</b>	2380773
<b>MATERIAL TYPE:</b>	Grout	<b>MIX DESIGN:</b>	306541
<b>SAMPLED BY:</b>	Doug L.	<b>SLUMP:</b>	9 inches
<b>SPEC. STRENGTH:</b>	2000 psi	<b>AIR TEMP:</b>	75 Degrees F
<b>SUPPLIER:</b>	A & A Concrete	<b>MIX TEMP:</b>	72 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> CMU Tower Monument - North Wall			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH(psi)
A	7	41500	12.56	7/17/01	3304
B	28	46700	12.56	8/7/01	3718
C	28	50200	12.56	8/7/01	3997

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

A & A Concrete

Reviewed By: Bob [Signature]

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-00802

**PROJECT NAME:** Christian Brothers High School

Panattoni Construction, Inc.  
 Attention: Steve Beauchamp  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**LOCATION:** 4315 Martin Luther King Jr. Boulevard  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	7/12/01	<b>TICKET #:</b>	
<b>MATERIAL TYPE:</b>	Grout	<b>MIX DESIGN:</b>	
<b>SAMPLED BY:</b>	Doug L.	<b>SLUMP:</b>	inches
<b>SPEC. STRENGTH:</b>	7000      psi	<b>AIR TEMP:</b>	Degrees F
<b>SUPPLIER:</b>		<b>MIX TEMP:</b>	Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Grout Column Bases			

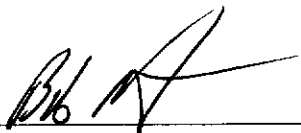
**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	12000	3.14	7/19/01	3822
B	28	21700	3.14	8/9/01	6911
C	28	19200	3.14	8/9/01	6115

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Reviewed By: 

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-00828

**PROJECT NAME:** Christian Brothers High School

Panattoni Construction, Inc.  
 Attention: Steve Beauchamp  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**LOCATION:** 4315 Martin Luther King Jr. Boulevard  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	7/20/01	<b>TICKET #:</b>	1990835
<b>MATERIAL TYPE:</b>	Grout	<b>MIX DESIGN:</b>	306541
<b>SAMPLED BY:</b>	A.J. M.	<b>SLUMP:</b>	8 inches
<b>SPEC. STRENGTH:</b>	3000 psi	<b>AIR TEMP:</b>	57 Degrees F
<b>SUPPLIER:</b>	A & A Concrete	<b>MIX TEMP:</b>	74 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> CMU TOWER - 2nd lift			

**STRENGTH RESULTS**


SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	37700	12.56	7/27/01	3002
B	28	46700	12.56	8/17/01	3718
C	28	44100	12.56	8/17/01	3511

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

**Notes:**

**CC:**

A & A Concrete

Reviewed By: 

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-00858

**PROJECT NAME:** Christian Brothers High School

Panattoni Construction, Inc.  
 Attention: Steve Beauchamp  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**LOCATION:** 4315 Martin Luther King Jr. Boulevard  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	7/31/01	<b>TICKET #:</b>	105368
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	LSA5871M
<b>SAMPLED BY:</b>	Kevin S.	<b>SLUMP:</b>	5.75 inches
<b>SPEC. STRENGTH:</b>	3000 psi	<b>AIR TEMP:</b>	58 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	75 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Second floor deck - lines G/2.5			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	6	80400	28.27	8/6/01	2844
B	8	90500	28.27	8/8/01	3201
C	28	115100	28.27	8/28/01	4071
D	28	110700	28.27	8/28/01	3916

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: 

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-00863

**PROJECT NAME:** Christian Brothers High School

Panattoni Construction, Inc.  
 Attention: Steve Beauchamp  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**LOCATION:** 4315 Martin Luther King Jr. Boulevard  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	8/1/01	<b>TICKET #:</b>	105488
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	L5A5871M
<b>SAMPLED BY:</b>	Kevin S.	<b>SLUMP:</b>	7 inches
<b>SPEC. STRENGTH:</b>	3000 psi	<b>AIR TEMP:</b>	63 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	76 Degrees F
<b>AIR ENTRAINMENT</b>			
<b>LOCATION:</b> Second Floor Deck - Lines G/1.5			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	94500	28.27	8/8/01	3343
B	28	121900	28.27	8/29/01	4312
C	28	120200	28.27	8/29/01	4252
HOLD	56		28.27	9/26/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: *Bob MS*



# Compressive Strength Report

(ASTM METHOD C-39 )

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-00948

**PROJECT NAME:** Christian Brothers High School

Panattoni Construction, Inc.  
 Attention: Steve Beauchamp  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**LOCATION:** 4315 Martin Luther King Jr. Boulevard  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	8/7/01	<b>TICKET #:</b>	2405359
<b>MATERIAL TYPE:</b>	Grout	<b>MIX DESIGN:</b>	6.5 SACK
<b>SAMPLED BY:</b>	Chris B.	<b>SLUMP:</b>	8.5 inches
<b>SPEC. STRENGTH:</b>	2000 psi	<b>AIR TEMP:</b>	80 Degrees F
<b>SUPPLIER:</b>	A & A Concrete	<b>MIX TEMP:</b>	79 Degrees F
<b>AIR ENTRAINMENT</b>			
<b>LOCATION:</b> CMU WALL South tower east end - last lift			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	42500	12.56	8/14/01	3384
B	28	49900	12.56	9/4/01	3973
C	28	51600	12.56	9/4/01	4108

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

A & A Concrete

Reviewed By: 

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-01182

**PROJECT NAME:** Christian Brothers High School

Panattoni Construction, Inc.  
 Attention: Steve Beauchamp  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**LOCATION:** 4315 Martin Luther King Jr. Boulevard  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	9/27/01	<b>TICKET #:</b>	120023
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	00A5041A
<b>SAMPLED BY:</b>	Doug L.	<b>SLUMP:</b>	inches
<b>SPEC. STRENGTH:</b>	3000      psi	<b>AIR TEMP:</b>	68      Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	76      Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Slab-on-grade - lines D.5/1.2			

**STRENGTH RESULTS**

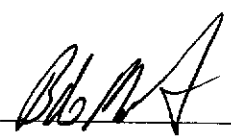
SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	58300	28.27	10/4/01	2062
B	28	91600	28.27	10/25/01	3240
C	28	87200	28.27	10/25/01	3085
HOLD	56		28.27	11/22/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: 

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 192-155.01      **SAMPLE ID:** 01-01183

**PROJECT NAME:** Christian Brothers High School

Panattoni Construction, Inc.  
 Attention: Steve Beauchamp  
 8745 Folsom Boulevard, Suite 150  
 Sacramento, CA 95826

**LOCATION:** 4315 Martin Luther King Jr. Boulevard  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	9/27/01	<b>TICKET #:</b>	120099
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	00A5041A
<b>SAMPLED BY:</b>	Doug L.	<b>SLUMP:</b>	4.25 inches
<b>SPEC. STRENGTH:</b>	3000 psi	<b>AIR TEMP:</b>	80 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	78 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Slab-on-Grade - Lines A1/2.2			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	63700	28.27	10/4/01	2253
B	28	90100	28.27	10/25/01	3187
C	28	94000	28.27	10/25/01	3325
HOLD	56		28.27	11/22/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: 

Raney

Geotechnical Inc

# Compressive Strength Report

(ASTM METHOD C-39)

PROJECT #: 192-155.01 SAMPLE ID: 01-01185

PROJECT NAME: Christian Brothers High School

Panattoni Construction, Inc.  
Attention: Steve Beauchamp  
8745 Folsom Boulevard, Suite 150  
Sacramento, CA 95826

LOCATION: 4315 Martin Luther King Jr. Boulevard  
PERMIT NO:

### SAMPLE DATA

DATE SAMPLED:	9/28/01	TICKET #:	120199
MATERIAL TYPE:	Concrete	MIX DESIGN:	A5041A
SAMPLED BY:	James H.	SLUMP:	5 inches
SPEC. STRENGTH:	3000 psi	AIR TEMP:	59 Degrees F
SUPPLIER:	Teichert & Son, Inc.	MIX TEMP:	74 Degrees F
AIR ENTRAINMENT:			
LOCATION: Slab-on-Grade - Lines F/2			

### STRENGTH RESULTS

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	77800	28.27	10/5/01	2752
B	28	99600	28.27	10/26/01	3523
C	28	97200	28.27	10/26/01	3438
HOLD	56		28.27	11/23/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: 