CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0009806
Insp Area: 4

Site Address: 4600 PELL DR SAC
Parcel No: 237-0022-078

Sub-Type: NOTHR
Housing (Y/N): N

CONTRACTOR
CIMORELLI CONSTRUCTION
11333 SUNCO DR #103
RANCHO CORDOVA, CA 95742

OWNER
H&J ELECTRIC
4600 PELL DR
SAC

ARCHITECT

Nature of Work: INSTALL ROLL UP DOOR WITH BRACING

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'sAddress _____

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 525704 Date 8-22-00 Contractor 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.)

RECEIVED
CITY OF SACRAMENTO
AUG 22 2000

_____ 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.

PLANNING AND DEVELOPMENT SERVICES
PROJECT HOODS

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 herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 8-22-00 Applicant/Agent 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.

X 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 AMERICAN INTERSTATE INSURANCE Policy Number 00WCCA152704 Exp Date 07/01/2001

_____ (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 8-22-00 Applicant 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.

STEEL FRAMING DETAILS
FOR
H & J ELECTRIC ROLL-UP DOOR

DEPT. OF PLANNING & DEVELOPMENT
APPROVED
UNDER TITLE 9 & 15 CITY CODE
City of SACRAMENTO, CALIF.
BUILDING INSPECTION DIVISION

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division.
The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

CIMORELLI CONSTRUCTION

4600 PELL DRIVE
SACRAMENTO, CA

REGISTERED PROFESSIONAL ENGINEER
KEITH F. DE LAPP
No. 48214
Exp. 6-30-04
CIVIL
STATE OF CALIFORNIA

ISSUED
AUG 2 2 2000
Sacramento Building Division

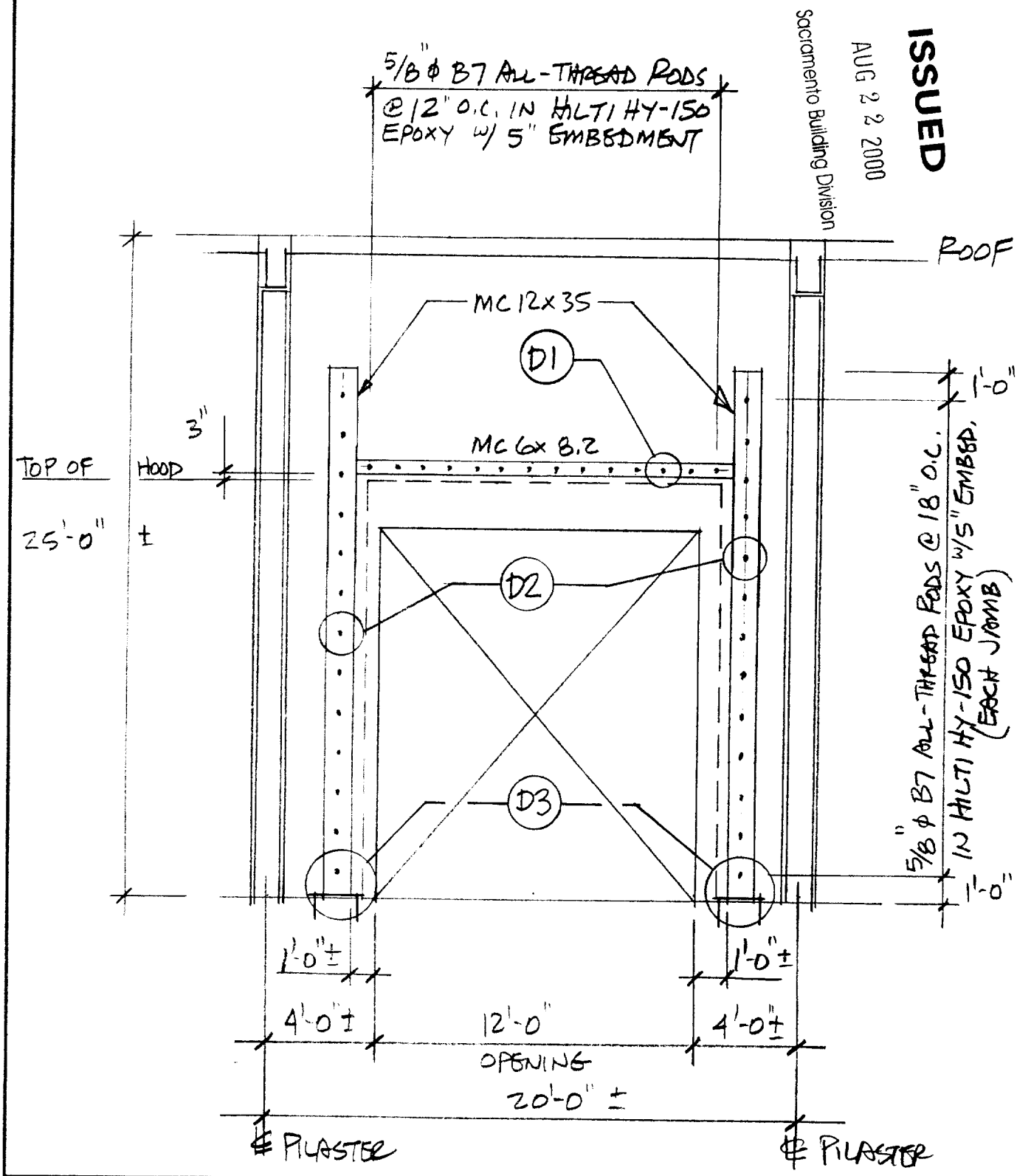
8.2.00

1 8.21.00 PLAN CHK. REVISION

John Tang

KDL Engineering
4995 Golden Foothill Parkway, Suite 1
El Dorado Hills, CA 95762
Phone (916) 933-5991 • Fax (916) 933-5992

COVER SHEET			JOB NO: 2008
BY: K. De Lapp	DATE: August, 2000		REV:
CLIENT: CIMORELLI CONSTRUCTION			
PROJECT: H & J ELECTRIC-ROLL UP DOOR			SHEET: E0



KDL Engineering

4995 Golden Foothill Parkway, Suite 1

El Dorado Hills, CA 95762

Phone (916) 933-5991 • Fax (916) 933-5992

FRAMING ELEVATION		JOB NO: 2008
BY: K. DeLapp	DATE: 8/00	REV: 1 8.21.00
CLIENT: CIMORELLI CONSTRUCTION		
PROJECT: H&J ELECTRIC - ROLL UP DOOR		SHEET: 1

KDL Engineering
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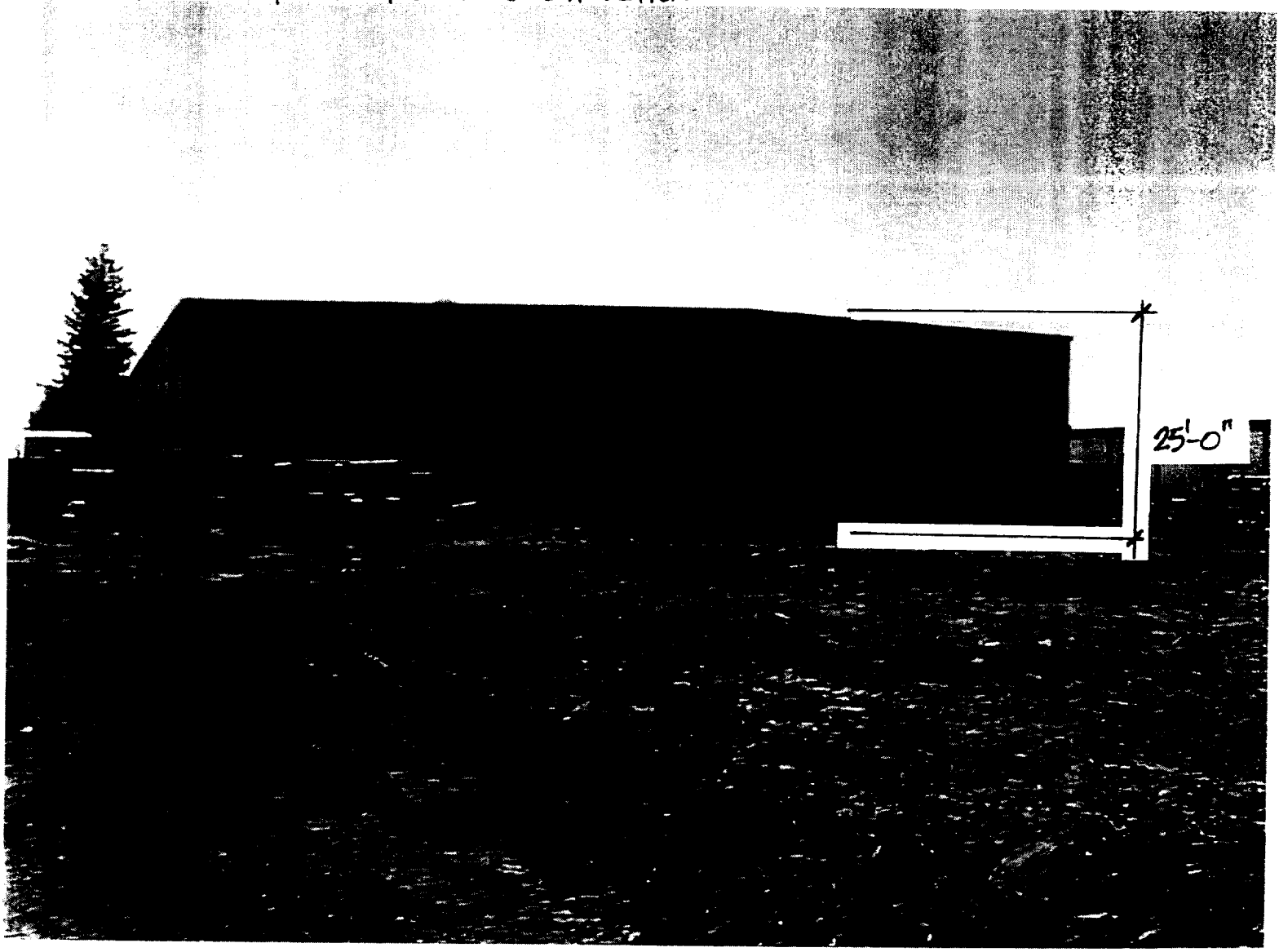
El Dorado Hills, CA 95762
Phone (916) 933-5991
Fax (916) 933-5992
email: kdl@directcon.net

H & J ELECTRIC - 4600 PELL DRIVE

PHOTO BY CIMORELLI CONSTRUCTION



REMAINING LENGTH OF PANEL PROVIDES ADEQUATE SHEAR WALL

E2

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Phone (916) 933-5991
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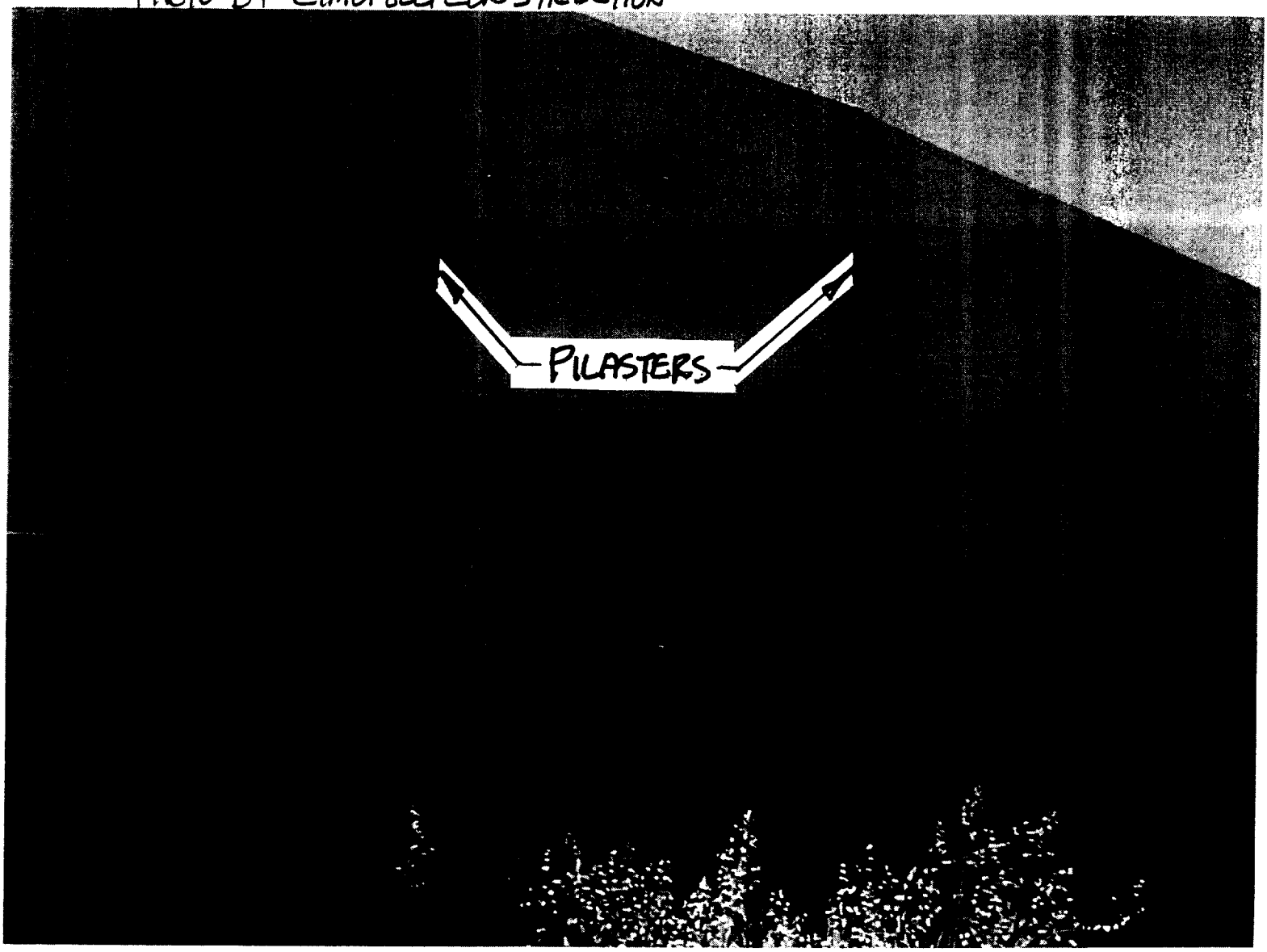
email: kdl@directcon.net

H & J ELECTRIC - 4600 PELL DRIVE

PHOTO BY CIMORELLI CONSTRUCTION



E3

KDL Engineering
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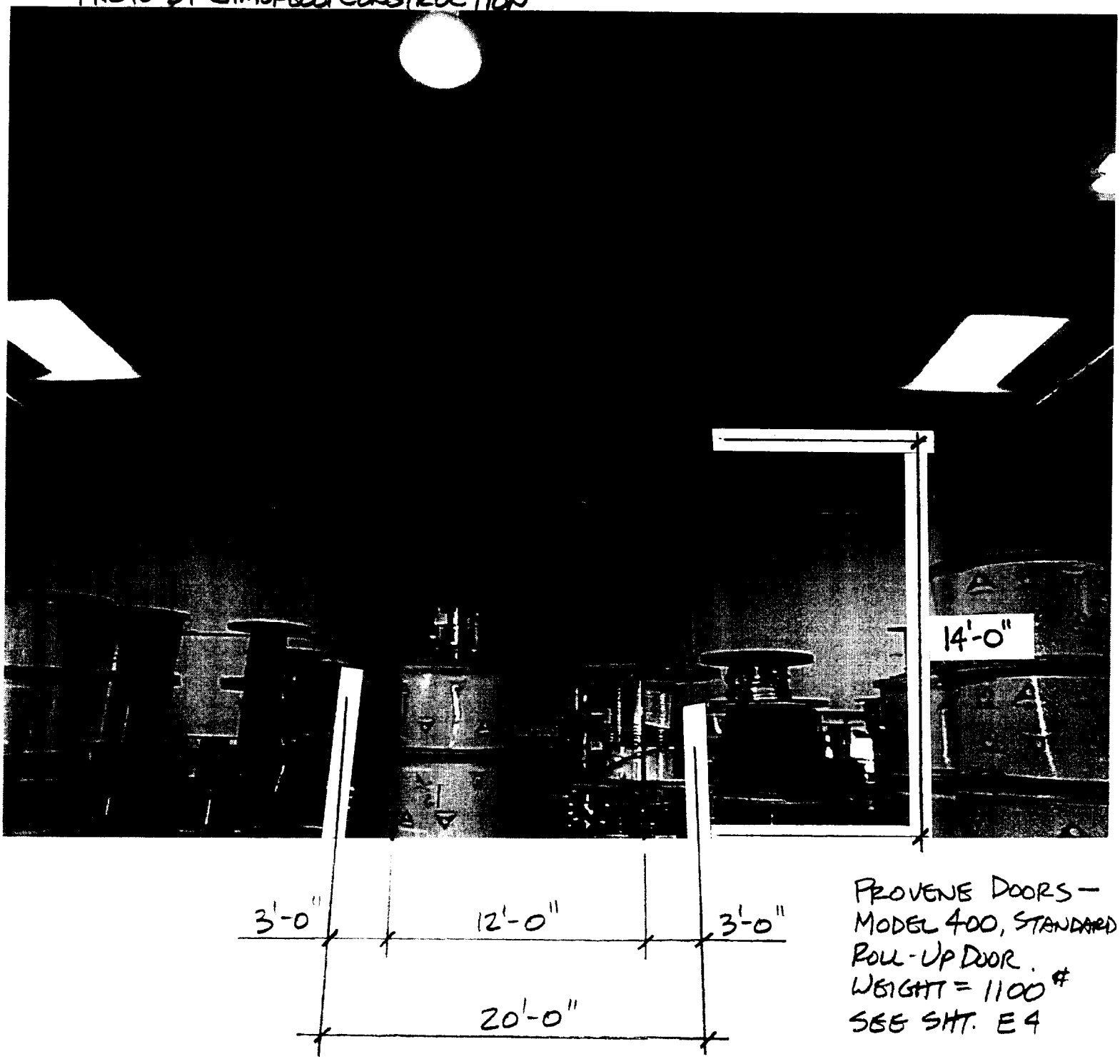
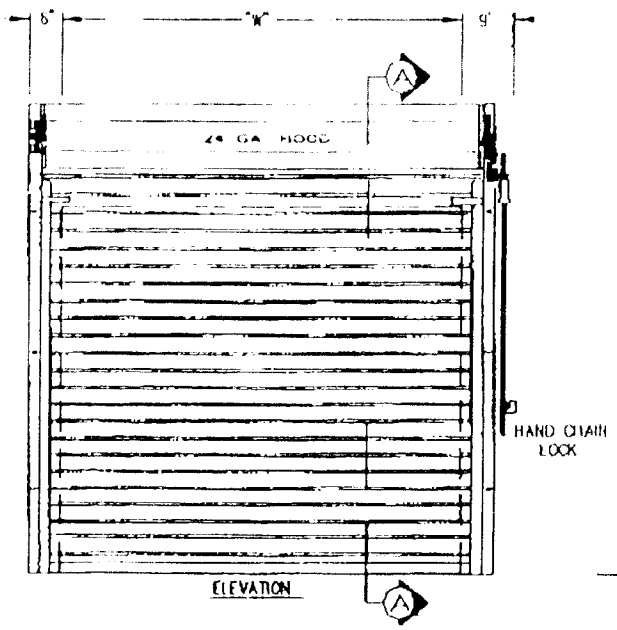
Suite 1
El Dorado Hills, CA 95762
Phone (916) 933-5991
Fax (916) 933-5992
email: kdl@directcon.net

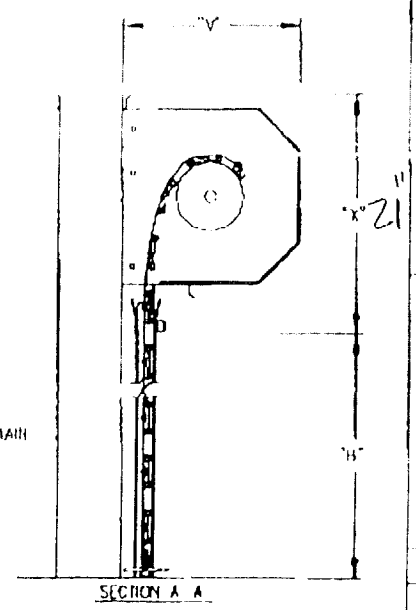
H & J ELECTRIC - 4600 POLL DRIVE

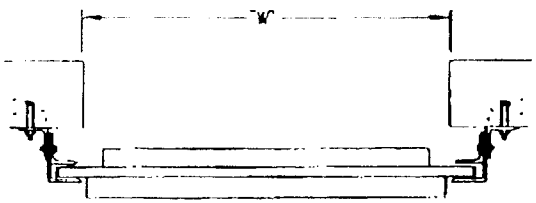
PHOTO BY CIMORELLI CONSTRUCTION

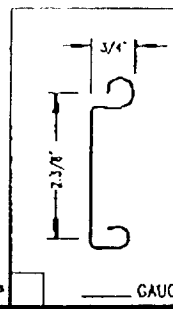


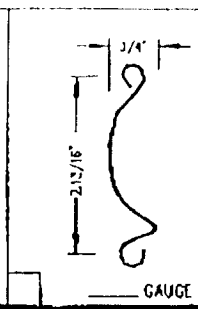
PROVENE DOORS - MODEL 400, STANDARD ROLL-UP DOOR.
WEIGHT = 1100#
SEE SHT. E4



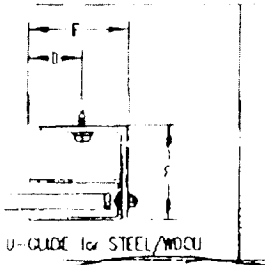


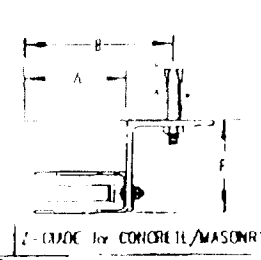




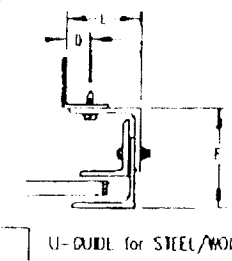


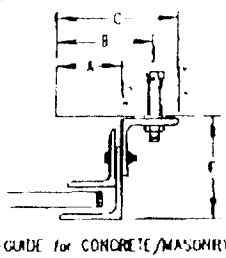
2 PC GUIDES





3 PC GUIDES





GUIDE TYPE	A"	B"	C"	D"	E"	F"
1	3	4		2	3 3/16	3 1/4
2	3	4 5/8	5 1/2	1 1/4	3 1/4	3 7/8
3	3	4 3/4	6	1 1/2	3 1/4	3 7/8
4	3	4 3/4	6	1 1/2	3 1/4	4 3/4

GENERAL NOTES

- SLATS/HOOD: GALVANIZED STEEL WITH BAKED ON EPOXY PRIMER & POLYESTER TOP COAT
- OTHER SURFACES: SHOP COAT PRIMER
- OPERATION: RIGHT HAND SHOWN, LEFT HAND OPPOSITE
- 2 PC. GUIDES ARE USED UPTO 14'X 14' OPENING
- 3 PC. GUIDES PERTAIN TO GUIDE TYPE 2,3,& 4

10: 15-97

SEP 9 93

MRK.	QTY.	OPENING SIZE		OPERATION	R.H.	CLEARANCES		GUIDE	OPTION
		WIDTH "W"	HEIGHT "H"		L.H.	"X"	"V"	TYPE	
		12'	14'						

PROJECT:

ARCHITECT:

CONTRACTOR:

DISTRIBUTOR:

DATE: SHEET: OF: BY: REF. #:

PORVENE DOORS

Santa Fe Springs CA 90670

(562) 941 - 2244

STANDARD ROLLING SERVICE DOOR - MODEL 400

NOTE: Porvene Doors is not responsible for improper installation procedures, structural backing, and field inspections of the project itself.

WT OF DOOR 1100 LBS

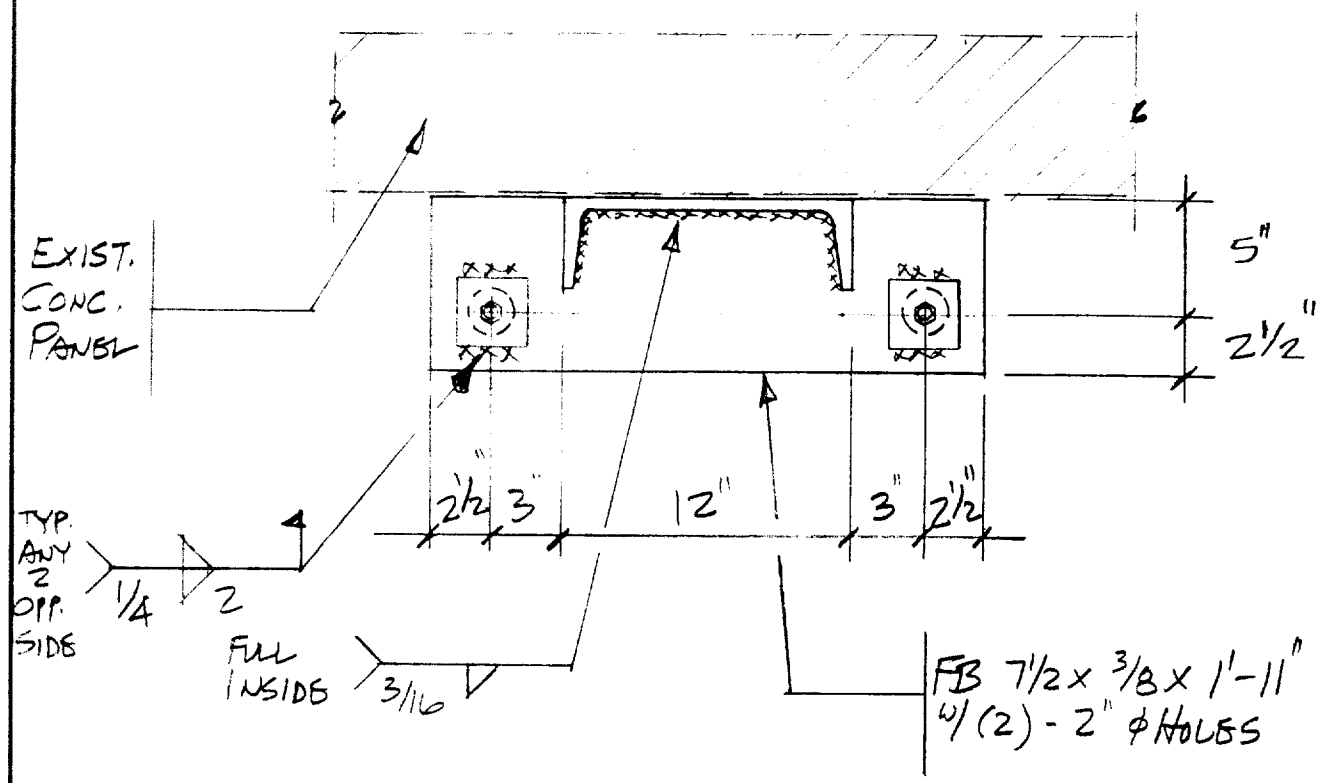
RS-3

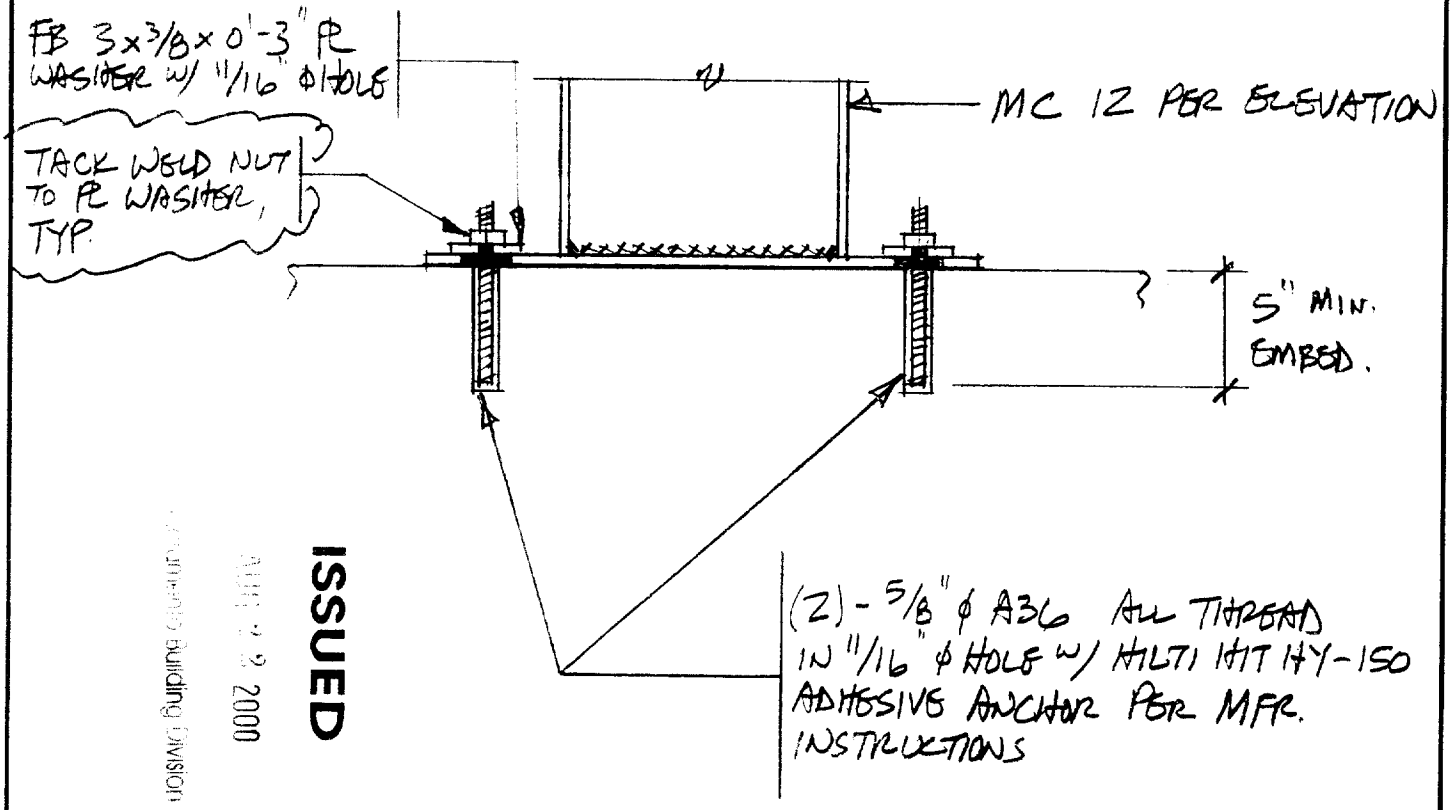
Sacramento Building Division

ISSUED

AUG 2 2 20

ES





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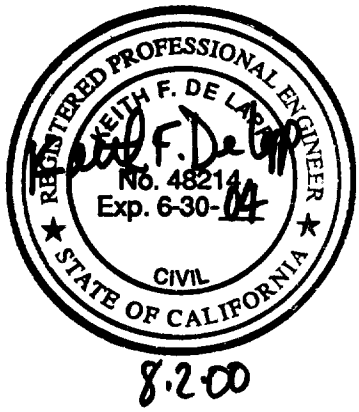
AUG 2 2 2000
Building Division

KDL Engineering 4995 Golden Foothill Parkway, Suite 1 El Dorado Hills, CA 95762 Phone (916) 933-5991 • Fax (916) 933-5992	BASE PL CONNECTION	JOB NO: 2008
	BY: K. DOLAPP DATE: 8-21-00	REV: 1 8.21.00
	CLIENT: CIMORELLI CONSTRUCTION	
	PROJECT: H+J ELECTRIC - ROLL UP DOOR	SHEET: D3

STRUCTURAL CALCULATIONS
FOR
H & J ELECTRIC ROLL-UP DOOR

CIMORELLI CONSTRUCTION

4600 PELL DRIVE
SACRAMENTO, CA



8.2.00

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AUG 22 2000
Sacramento Building Division

KDL Engineering
4995 Golden Foothill Parkway, Suite 1
El Dorado Hills, CA 95762
Phone (916) 933-5991 • Fax (916) 933-5992

COVER SHEET			JOB NO: 2008
BY: K. De Lapp	DATE: August, 2000		REV:
CLIENT: CIMORELLI CONSTRUCTION			
PROJECT: H & J ELECTRIC-ROLL UP DOOR			SHEET: C0

① LOADS

- GRAVITY

$G_{DOOR} = 1100^{\#}$ (DOOR IS SELF SUPPORTING – NO VERTICAL LOADS TO EXISTING PANEL)

- SEISMIC (1997 UBC)

PROVIDED BY CIMORELLI CONSTRUCTION

$$S_{FP} = \frac{a_p C_a I_p}{R_p}\left(1+3\frac{h_x}{h_r}\right)W_p \; ; \; W_p = 150\left(\frac{6.75}{12}\right) = 85\,PSF$$

$C_a = 0.36$, $Z = 0.3\,(S_D)$

$$S_{FP} = \frac{1.0(0.36)1.0}{3.0}\left(1+3\frac{25}{25}\right)W_p = 0.48W_p = 0.48(85) = 41\,PSF$$

- WIND

$W_p = C_e C_q q_s I_w = 1.06(1.2)12.6(1.0) = 16\,PSF$

Sacramento Building Division
AUG 22 2000
ISSUED

② HEADER DESIGN

$W_{DOOR} = 1100/12 = 95\,PLF\,(0.48) = 46\,PLF$

ASSUME MIN. STEEL IS PRESENT IN WALL PER 1914.3.3

$A_S = 0.002(6.75)12 = 0.16\,IN^2$ @ 18" SPACING YIELDS $0.24\,IN^2$

SAY $A_{SP} = {}^{\#}5$ @ 18" CTRD IN PANEL w/ $f'_c = 3{,}000\,PSI$

FOR $b = 1.5t = 1.5(6.75) = 10.125"$ w/ $1-{}^{\#}5$ BAR

$$\phi M_u = (46+1.5(41))(14)^2/8(1000) = 2.64^{K'}$$

$d = 6.75/2 = 3.375$; $a = 0.43"$

$$\phi M_n = (0.9)0.31(60)\left(3.375-\frac{0.43}{2}\right)/12 = 4.4^{K'} > 2.64^{K'}$$

HOWEVER 1914.3.7 REQUIRES $2-{}^{\#}5$ @ OPENINGS

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DESIGN		JOB NO: 2008
BY: K. DeLapp	DATE: 8/00	REV:
CLIENT: CIMORELLI CONSTRUCTION		
PROJECT: H & J ELECTRIC – ROLL UP DOOR		SHEET: C1

(2) CONT.

$A_{S_R} F_{y_{36}} = A_{b_E} F_{y_{60}} \rightarrow A_{S_R} = 0.62(60)/36 = 1.03 in^2$ MIN.

TRY A C6x8.2 w/ $A = 2.4 in^2$

$a = \frac{2.4(36)}{0.85(3)10.125} = 3.4"$ WHICH IS W/IN t OK

$T = 2.4(36) = 86.4^K$ & $d = 6.75 + 0.5 - \frac{3.4}{2} = 5.6"$

$\phi M_{n\ COMPOSITE} = 86.4(5.6)/12 = 40^{K'} > 4.4^{K'}$ OK

- CONNECTORS

$V_h = 0.85(3)10.125(6.75)/2 = 87^K$ OR

$V_h = 86.4/2 = 43.2^K$ OR

$V_h = 60(0.62)/2 = 18.6^K$ (FOR NEG. BENDING) GOVERNS!

HILTI HIT HY-150 w/ 5/8" ϕ B7 RODS w/ E = 5" GF 4000#

$N = 43.2/1.7(4) = 6.4$

USE C 6x8.2 w/ 5/8" ϕ B7 RODS @12" IN HILTI HIT HY-150 EPOXY w/ 5" EMBED

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AUG 22 2000
Sacramento Building Division

(3) JAMB DESIGN

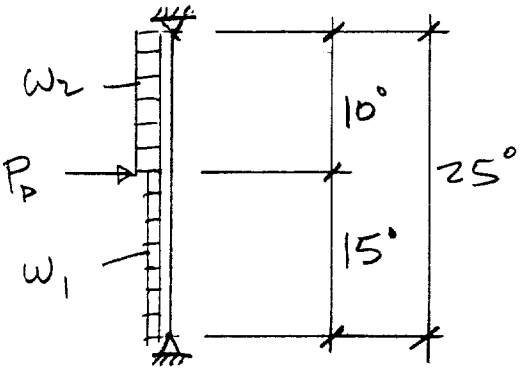
$P_{D_S} = 6(46) = 276^\#$; $P_{D_W} = 0$

$w_{1_W} = 16(8) = 128$ PLF OR GOVERNS

$w_{1_S} = 0.48(5)6 + 2(41) = 96$ PLF

$w_{2_W} = 128$ PLF

$w_{2_S} = 6(41)/3 = 110$ PLF



KDL Engineering 4995 Golden Foothill Parkway, Suite 1 El Dorado Hills, CA 95762 Phone (916) 933-5991 • Fax (916) 933-5992	DESIGN – CONT.	JOB NO: 2008
	BY: K. DeLapp DATE: 8/00	REV:
	CLIENT: CIMOPOLLI CONSTRUCTION	
	PROJECT: H & J ELECTRIC – ROLL UP DOOR	SHEET: C2

(3) CONT.

$M_{uw} = 1.3(128)(25)^2/8(1000) = 13^{K'}$ GOVERNS

$$M_{us} = \frac{[96(15)(50-15)/50]^2}{2(96)1000} + \frac{[110(10)(50-10)/50]^2}{2(110)1000} + \frac{276(10)15}{25(1000)}$$

$M_{us} = 5.3 + 3.5 + 1.7 = 10.5^{K'}$

ASSUME MIN. STEEL IS PRESENT IN WALL PER 1914.3.2

$A_s = 0.0012(6.75)12 = 0.1\,in^2$ @ 18" SPACING YIELDS $0.15\,in^2$

SAY A_{sp} = #4 @ 18" CTRD IN PANEL W/ $f'_c = 3{,}000$ PSI

FOR $b = 1.5t = 10.125$" W/ 1-#4 BAR BENDING NO GOOD BY INSPECTION

$E_s I_s = E_c I_c$

$I_c = 10.125(6.75)^3/12(2) = 129\,in^4$; $n = 10$

$I_s = 12.9\,in^4$ TRY MC 12x35 W/ $z_y = 7.91\,in^3$

$\phi M_n = 0.9(36)7.91/12 = 21^K > 13^{K'}$ OK

USE MC 12x35 x 17'-0" W/ 5/8" ϕ B7 RODS @ 18" IN HILTI HIT HY-150 EPOXY W/ 5" EMBED TO SIDE OF TOMB

ISSUED
AUG 22 2000
Sacramento Building Division

KDL Engineering 4995 Golden Foothill Parkway, Suite 1 El Dorado Hills, CA 95762 Phone (916) 933-5991 • Fax (916) 933-5992	DESIGN - CONT.	JOB NO: 2008
	BY: K. DeLapp DATE: 8/00	REV:
	CLIENT: CIMORELLI CONSTRUCTION	
	PROJECT: H&J ELECTRIC - ROLL UP DOOR	SHEET: C3