

CITY OF SACRAMENTO

Permit No: 9802086

1231 I Street, Sacramento, CA 95814

Insp Area: 4

Site Address: 2501 NORTHGATE BL SAC

Sub-Type: NCOM

Parcel No: 2620243056

Housing (Y/N): N

CONTRACTOR

RONALD BOWER
720 DORNES RD
LINCOLN CA 95683
Phone: 354-0244

OWNER

MURPHY ROBERT T & VELMA
6501
RIO LINDA CA 95126
Phone:

ARCHITECT

Phone:

Nature of Work: INSTALL A DYNO MACHINE FOR SMOG INSPECTIONS

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 696715 Date 3-25-98 Contractor Signature Eric Pfeifer AGENT

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 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 or 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 or 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.

Date 3-25-98 Applicant/Agent Signature Eric Pfeifer AGENT

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.

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 FUND Policy Number 1497363-97

(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 3-25-98 Applicant Signature Eric Pfeifer AGENT

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.

2501 NORTHGATE AVE

PERMIT NO.
9802086

CITY OF SACRAMENTO
1231 1ST ROOM 200
BUILDING INSPECTIONS DIVISION

AREA NO.
4C

WHEN CORRECTIONS HAVE BEEN MADE CALL 264-5191 FOR REINSPECTION OF WORK.

JOB LOCATION 2501 Northgate Blvd.

INSPECTION REQUESTED *Subcontract*

THE UNDERSIGNED BUILDING PLUMBING MECHANICAL ELECTRICAL
INSPECTOR THIS DAY INSPECTED THIS STRUCTURE FOR THE REQUESTED INSPECTION AND FOUND THE FOLLOWING VIOLATIONS OF CITY AND/OR STATE LAWS GOVERNING SAME:

F 05003

1) Verify that what size conduct will be installed in the panel.

2) Service Equip does not appear to be adequately to serve the new 2/20 minutes

Do not cover

INSPECTOR *[Signature]* DATE *3/20/98*

BUILDING INSPECTIONS 264 5716

DISCIPLINE	1ST REVIEW			RECHECK			2ND RECHECK		
	EPR	OC	APPR	EPR	OC	APPR	EPR	OC	APPR
LIFE SAFETY			<i>3/20/98</i>						
STRUCTURAL			<i>3/20/98</i>						
MECHANICAL/PLUMBING			<i>3/20/98</i>						
ELECTRICAL			<i>3-20-98</i>						
FIRE									
PLANNING									

Legend: EPR = OK for Express Plan Review
OC = OK for Over the Counter Recheck
APPR = Approved as submitted

9802086 4138-37

WICKETS Comp Policy # 1497363-97
 COMPANY # 57476 FUND EXP. DATE 7/1/99

CITY OF SACRAMENTO
APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF PLANNING AND DEVELOPMENT
BUILDING INSPECTION DIVISION
 1231 I Street, Room 200
 Sacramento, CA 95814
 (916) 264-7619 FAX 264-7046

9802056
 P.C. # 5887 X
 SUITE # _____
 AREA # 4

ADDRESS 2501 NORTHLAKE BLD
 PARCEL # 262-0243-050

CONTACT

NAME ERIC FLEITER
 ADDRESS _____
 ZIP _____
 PHONE 916-0288 FAX: ()

LICENSED CONTRACTOR 696715

NAME RONALD BOWER
 ADDRESS 7028 DORNES RD
LINCOLN ZIP 95648
 PHONE (916) 434-0715

ARCH./ENG.

NAME GENE S PORTER
 ADDRESS 8952 NEW DAWN DR
SAC. CA ZIP 95826
 PHONE 916-362-4363

OWNER/TENANT

NAME _____
 ADDRESS _____
 ZIP _____
 PHONE _____

WILL THE PERMITEE HAVE ANY EMPLOYEE'S ON THE JOBSITE? YES NO

NATURE OF WORK IN DETAIL: DYNO INSTALL

D.B.A. Quality VALUATION 2,500.00
BELOW THIS LINE FOR BLDG. DEPT. USE ONLY

FLOOD STATUS COST S.C.A.T.

JOB DESCR. BLDG SHEL APT TI() REM() SW FIRE ADD OTH

INSP. DISCIPLINES BLDG MECH PLUMB ELEC SITE FIRE

# OF STORIES	AREA 1ST FL.	TOTAL AREA	USE ZONE	OCCUP. GROUP	CONST. TYPE	FIRE SPRINK.	FED. CODE	VIO. FILE
<u>1</u>						<u>?</u>	<u>13</u>	<u>OR</u>
<u>B</u>	<u>L</u>	<u>P</u>	<u>M</u>	<u>E</u>	<u>F</u>	<u>S</u>	<u>D</u>	<u>R</u>

COMMENTS: _____

ENGINEERING

8952 NEW DAWN DRIVE
SACRAMENTO, CA 95826

5/6/97

(916) 362-4363

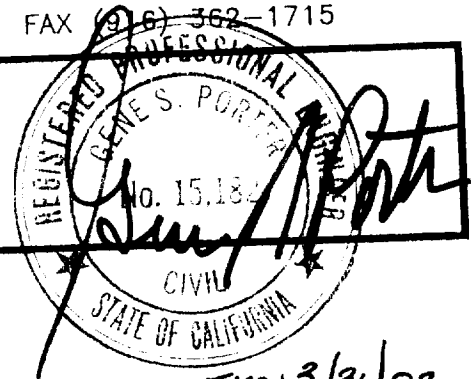
FAX (916) 362-1715

GENE S. PORTER INC.

CLAYTON INDUSTRIES
INSTALL-BAR 97 SPLIT ROLL

SHEET 1 OF 1

JOB NO. 97-032



Weight Of Equipment And Footing

Weight

Equipment = = 2000#

6" Conc. Footing = 75# x 10.67' x 5.08' = 4065

6" Conc. Wall = 75# x 1.33' x 31.33' = 3125

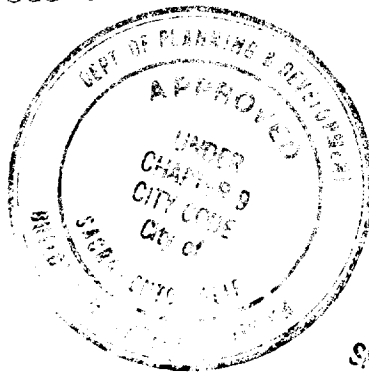
Total Weight = 9190# CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIV

Assume Allowable Soil Pressure = 1000 P.S.F.

Actual Soil Pressure = $\frac{9190\#}{10.67' \times 5'}$ = 170 PSF < 1000 PSF OK

Use 6" Concrete Slab With # 4 At 16"cc Located at Center of Slab.

All Concrete to be 2500 PSI Minimum in 28 Days.



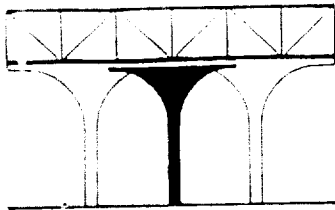
This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division. The approval of this plan and specification shall not be held to result in approval the violation of any provisions of State Law.

RECEIVED

MAR 17 1998

Building Inspection Division

PC 5887 X



ENGINEERING

8952 NEW DAWN DRIVE
SACRAMENTO, CA 95826

GENE S. PORTER INC.

(916) 362-4363

FAX (916) 362-1715

CLAYTON INDUSTRIES
INSTALL-BAR 97 SPLIT ROLL

SHEET 1 OF 2

JOB NO. 97-032

Lateral Analysis Of Equipment In Recessed Pit

* Split Roll Size: 4' - 0" Wide x 10' - 3" Long x 1' - 4" High

* Wt. Split Roll = 2700#

* Seismic Zone # 3

* Split Roll is Supported On 4 Legs Not Fastened to Pit Slab.

$$F_{Leg} = \frac{2700\#}{4 \text{ Legs}} = 675\#/\text{Legs}$$

$$F_p = Z I C_p W_p$$

Where Z = 0.30

I = 1.00

C_p = 0.75 (2/3)

W_p = 2700#

$$F_p = 0.30 \times 1.00 \times (2/3) \times 0.75 \times 2700\# =$$

$$F_p = 405\#$$

$$F_p = \text{Per Leg} = \frac{405\#}{4 \text{ Legs}} = 101\#/\text{Leg}$$

Coefficient Of Friction = 0.30

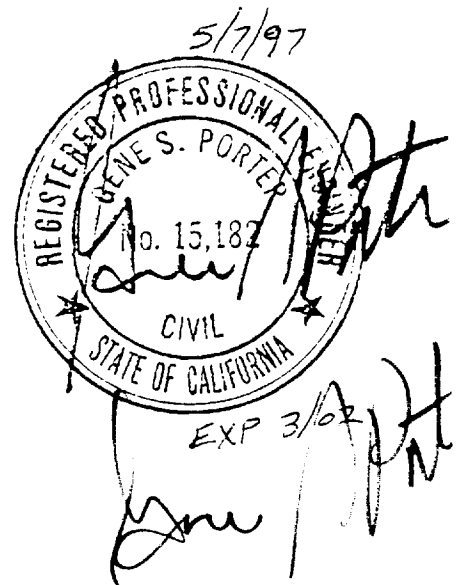
$$F_p = 101\#$$

Resistance To Sliding

$$P_R = 0.30 \times \frac{2700\#}{4 \text{ Legs}} = 203\#/\text{Leg} > 101\#/\text{Leg}$$

$$F.S. = \frac{203}{101} = 2.0 > 1.50 \text{ Ok}$$

No Sliding OF Equipment



RECEIVED

MAR 17 1997

Building Inspection Division

GENE S. PORTER INC.

(916) 362-4363

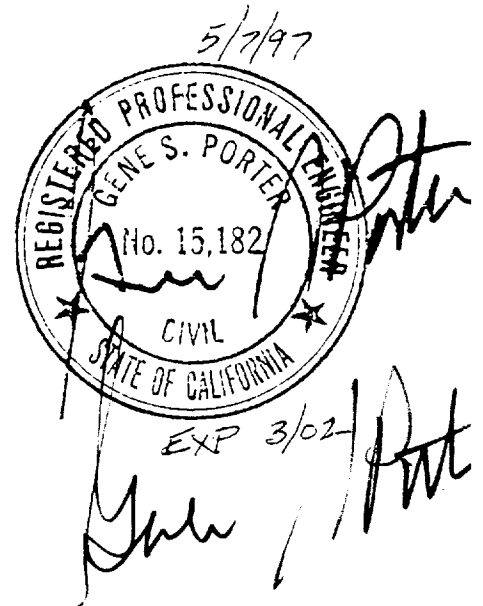
FAX (916) 362-1715

CLAYTON INDUSTRIES
INSTALL-BAR 97 SPLIT ROLL

SHEET **2** OF **2**
JOB NO. 97-032

CONCLUSION:

SINCE EQUIPMENT SITS IN PIT AND IS COMPLETELY CONTAINED BY CONCRETE PIT WITH TOP OF EQUIPMENT FLUSH WITH FLOOR SLAB AND RESISTANCE TO SLIDING OF EQUIPMENT LEGS EXCEEDS THE SLIDING FORCE - EQUIPMENT WILL NOT SLIDE AND IS SAFELY CONTAINED IF RECESS CONCRETE PIT.



Vertical text on the left side, possibly a stamp or note, partially obscured and difficult to read.

RECEIVED

MAR 17 1998

Building Inspection Division

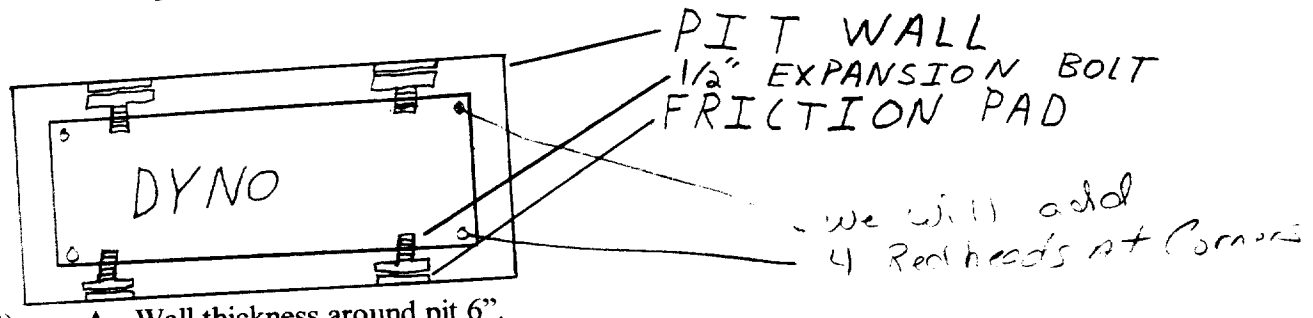
March 11, 1998

City of Sacramento

RE: Clayton Dyno Installation

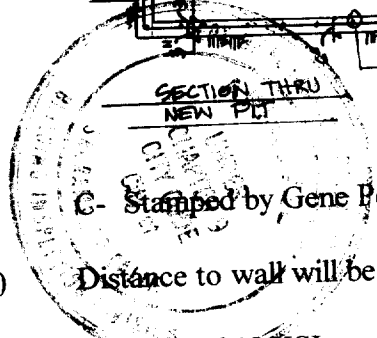
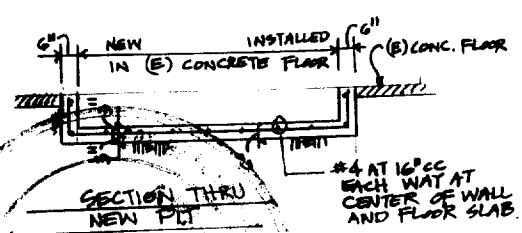
Structural

- 1) All dynos use 1" pressure bolts with friction pad between bolt and concrete mounted at 4 points front and rear of dyno. See detail.



- 2) A- Wall thickness around pit 6".

B- Engineering does not call for dowels at concrete walls. See detail for rebar plan.



C- Stamped by Gene Porter.

- 3) Distance to wall will be added to plan.
- 4) Rebar of 40 KSI.
- 5) Rebar cages are pre-fabbed without laps, however a lap of 18" is acceptable.

Mechanical

- 1) Pit blower to be installed at point of expulsion. Min. 10' above floor and 3' from openings. Fan will comprise of a USCG approved non sparking plastic squirrel cage housing and blade powered by an UL approved 250 CFM, 110 volt motor. ITT model # 36760-0115. Said motor is not explosion proof when installed in non classified air space. Blower will be wired to the lighting directly above dyno bay. Since pit floor is less than

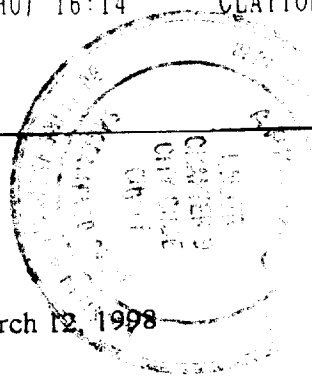
RECEIVED
MAR 17 1998
Building Inspection Division

50 sq. ft., this eliminates 5 times the necessary air for an empty pit and 10 times that of a pit containing a dynamometer.

Electrical

- 1) See mechanical.
- 2) UL and Clayton faxed letters to the attention of Don Verga. Bower representative will bring copies.
- 3) Panel C and control equipment are located together. Bower representative will add to plan.
- 4) Conduit 1" with 3 #6 wire connected by buss bar and breaker from main to sub panel C. Dyno motor #10 wire from panel C breaker to dynamometer disconnect. Controller circuits #12 wire in 3/4" flex conduit from panel C to control box. All connections buss bar or circuit breaker.
- 5) See mechanical.

MAR 12 '98 (THU) 16:14 818 442 1477 CLAYTON INDUSTRIES TEL: 818 442 1477 P. 001



ISSUED
MAR 25 1998

Mr. Don Verga
City of Sacramento
1231 I Street, Suite 200
Sacramento, CA 95814-2998

CITY OF SACRAMENTO,
DEVELOPMENT SERVICES DIV.

Dear Mr. Verga:

Clayton Industries will install only UL listed dynamometers within the city of Sacramento. Any existing dynamometer installations will be field listed or replaced with a listed unit.

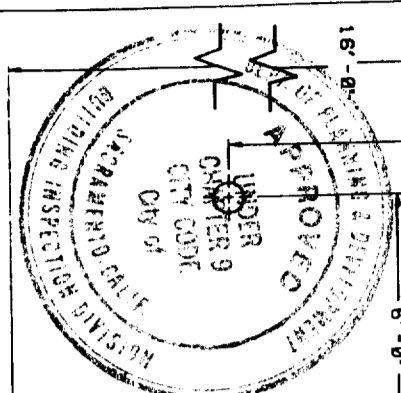
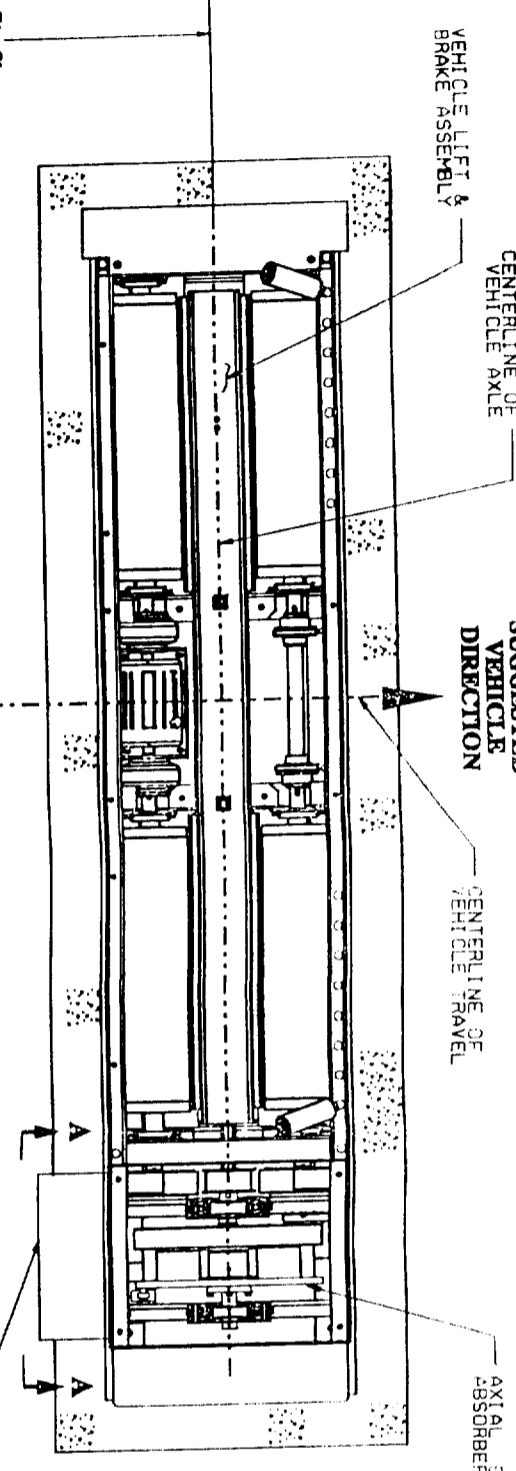
If you have any questions or concerns, please call me directly at (800) 423-4585, ext. 271.

Sincerely,

Jim Van Lent
Jim Van Lent
Vice President Engineering

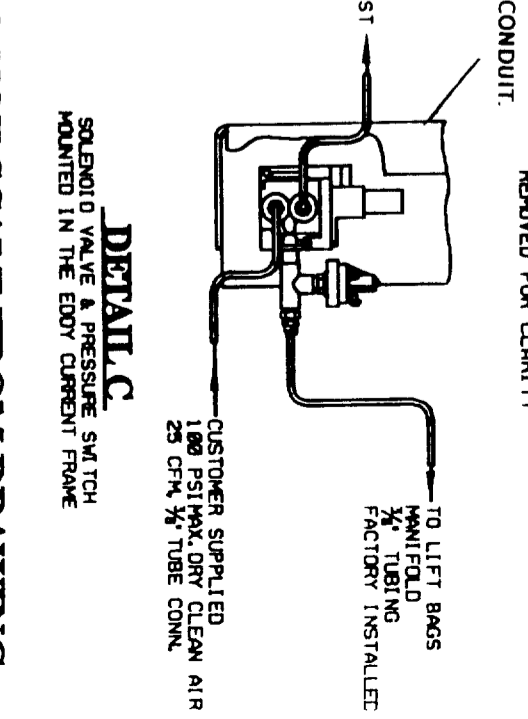
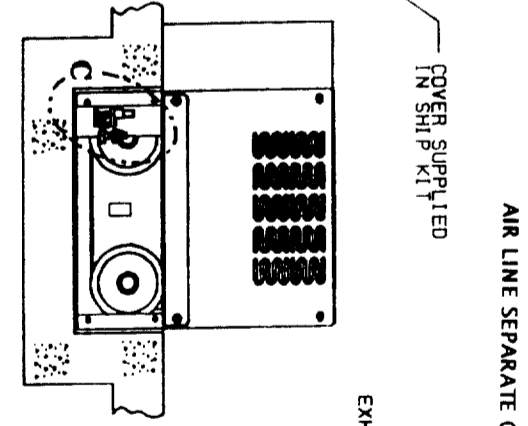
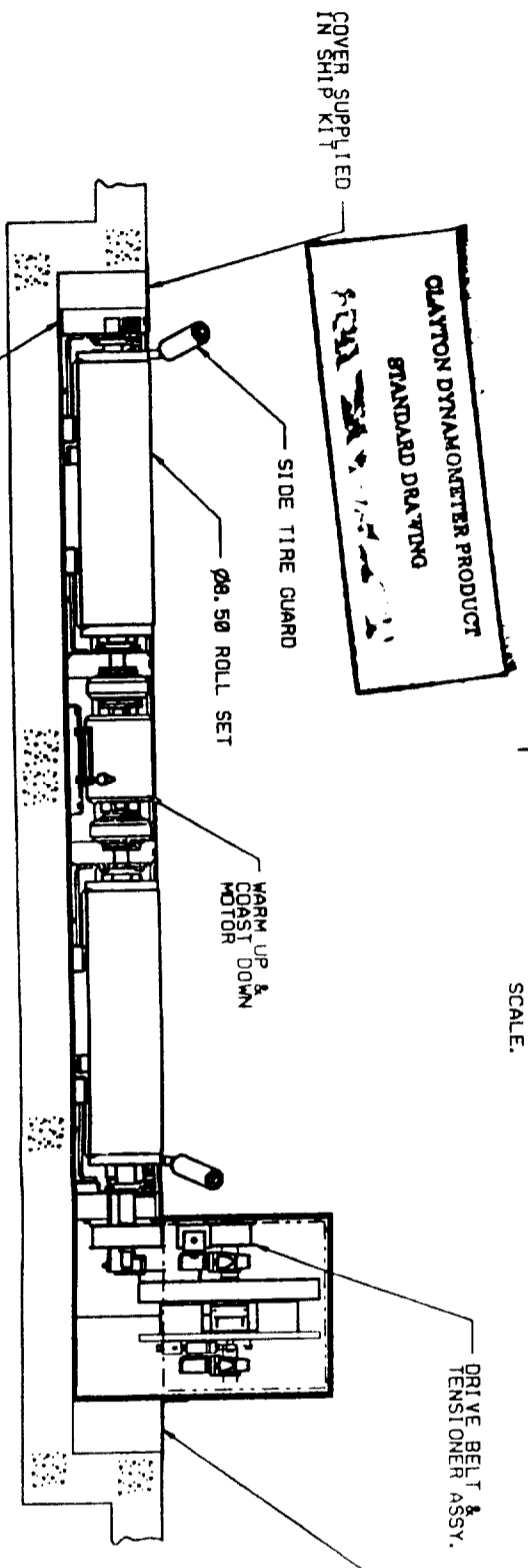
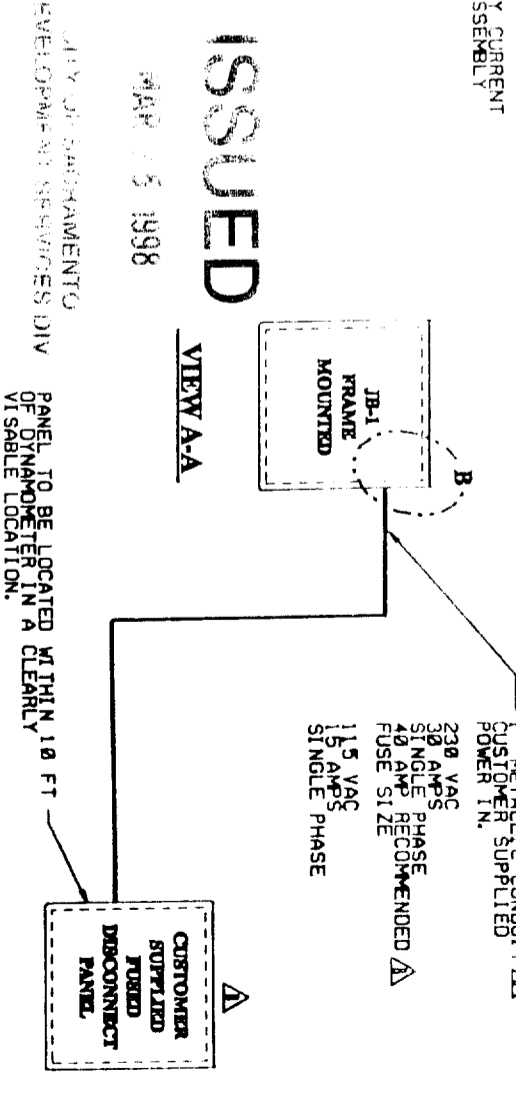
The approval of all Electrical Work
is subject to field inspections

OK 3/12/98 JV



This set of plans and specifications must be kept on the job at all times and it is intended to make any changes or alterations from the same without permission from the Building Inspector. The approval of the plan and specification shall not be held to permit or approve the violation of any other provisions of State Law.

OPTIONAL: ANCHOR POT LOCATION FOR ADDITIONAL STRAPS. LOCATION NOT TO SCALE.



DO NOT SCALE FROM DRAWING

- NOTES:
- EDDY CURRENT COVER AND SOME COVER PLATES REMOVED FOR CLARITY.
 - AFTER INSTALLATION, MACHINE MUST BE LEVEL WITHIN 1/8", TOP OF DYNO SHEET METAL FRAME MUST BE FLUSH WITH FINISHED FLOOR ELEVATION +1/8" -0.
 - ANCHOR POTS MUST BE INSTALLED IN A MINIMUM OF 5" OF CONCRETE. NO ANCHORS WILL BE INSTALLED INTO ASPHALT OR OTHER NON-CONCRETE FLOOR SURFACES.
 - APPROX. WEIGHT: DYNO = 2050 LBS.

REV	DATE	BY	CHK	DESCRIPTION	IN ASSY WHERE USED	ITEM	DESCRIPTION OF PART	STOCK NO.	RECD
A	10/8/97	EA	JC	ORIGINAL DRAWING					
B	1/9/98	MJ	JC	WAS SHIT TO 3, REVISED NOTE 2, ADDED SHIM AS REQ'D. NOTE-REFER TO ECO	20-1302	1			
<p>REVISION</p> <p>DO NOT SCALE PRINT</p>									

DATE	BY	CHK	DESCRIPTION	STOCK NO.	RECD
10/8/97	EA	JC	ORIGINAL DRAWING		
1/9/98	MJ	JC	WAS SHIT TO 3, REVISED NOTE 2, ADDED SHIM AS REQ'D. NOTE-REFER TO ECO		

DATE	BY	CHK	DESCRIPTION	STOCK NO.	RECD
10/8/97	EA	JC	ORIGINAL DRAWING		
1/9/98	MJ	JC	WAS SHIT TO 3, REVISED NOTE 2, ADDED SHIM AS REQ'D. NOTE-REFER TO ECO		

DATE	BY	CHK	DESCRIPTION	STOCK NO.	RECD
10/8/97	EA	JC	ORIGINAL DRAWING		
1/9/98	MJ	JC	WAS SHIT TO 3, REVISED NOTE 2, ADDED SHIM AS REQ'D. NOTE-REFER TO ECO		

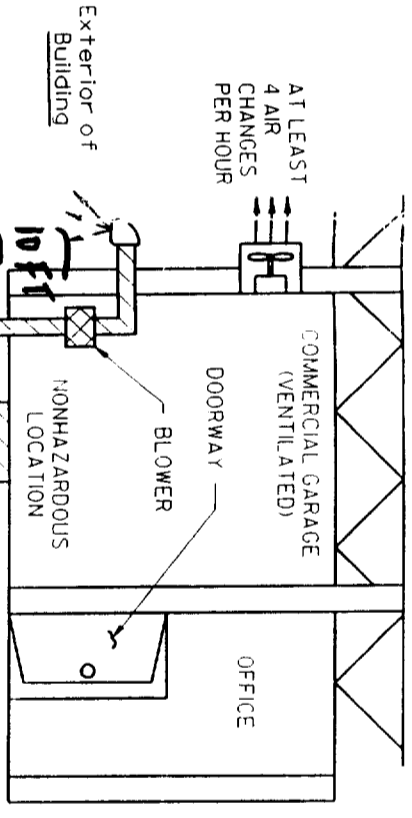
CLAYTON INDUSTRIES CALIFORNIA

INSTALLATION - CALIFORNIA

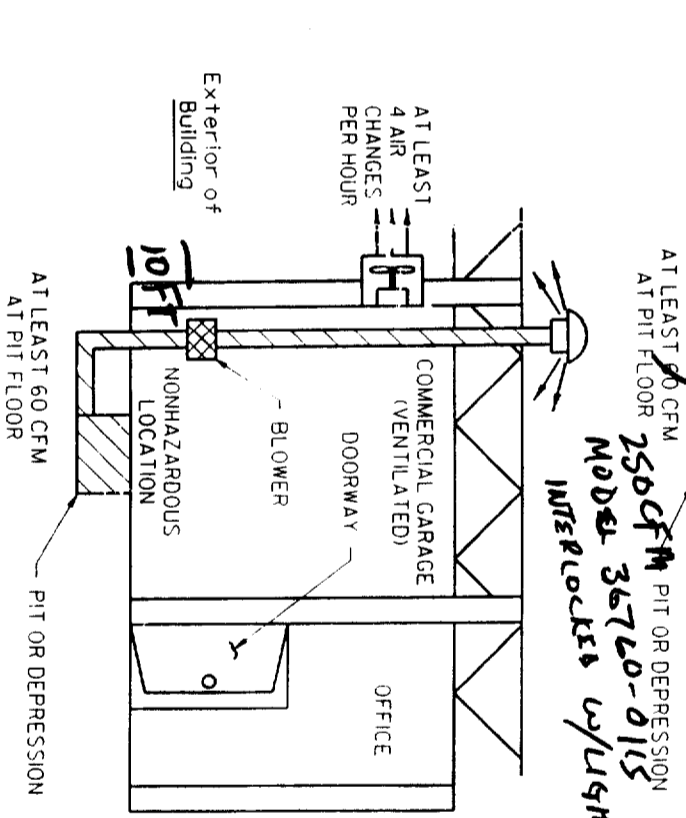
LOW PROFILE, FLUSH FLOOR

Ventilation Pit becomes non classified when installed in this manner.

- NOTES:
- 1) Customer is responsible to ventilate entire shop with at least 4 air changes per hour.
 - 2) Customer supplied pit ventilation blower vented to outside of building.
 - 3) Installation of ventilation system subject to local building codes.



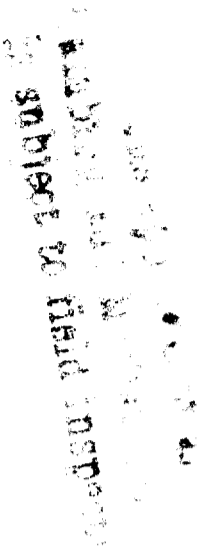
EXAMPLE #1



EXAMPLE #2

1. Carefully lay out your installation on the shop floor with chalk or tape. Consider where you will mount the the control box and electrical distribution panel, and how you will handle both front wheel drive and rear wheel drive vehicles. Make sure that there is enough room to move around the vehicle when it is positioned over the dynamometer.
2. Obtain all required electrical and construction permits. This will probably include an electrical permit, a construction permit, and a ventilation permit. You may choose to perform this task yourself, or allow your building contractor to do this for you.
3. Know when to request inspections. In most cases, inspections are done at specific intervals during the construction process. For example, many localities require that the soil be tested after the old concrete is cut and removed. Also, an inspection of the concrete forms and rebar is generally required before the concrete is poured.
4. Know where you will dispose of the old concrete and dirt.

UL Underwriters Laboratories is presently testing this system in the same manner. Projected date of UL listing February 1, 1998.



A ORIGINAL DRAWING		MJ	10/16/97	BR	DATE	CHK	REV	DESCRIPTION	DATE	BY	CHK	REV	DESCRIPTION
LTR		DO NOT SCALE PRINT											
FOR PLATING ALLOWANCE, MICRO FINISH AND GENERAL MANUFACTURING TOLERANCES NOT SPECIFIED ON THIS DRAWING, SEE ENG. ORDER SO-118													
TOLERANCES EXCEPT AS NOTED		XX		XXX									
FINISH SPECIFICATION		+ .000		+ .010									
ANGULAR		+ 1/2°											
SIMILAR TOOLING		SO. FTTC.		REV. LTR									
SCALE		NONE		DRAWING NUMBER		A							
MODEL / TYPE		20-1200		DRAWING NUMBER		R-16168							
SIZE		C											
ITEM #		DESCRIPTION OF PART		STOCK NO.		REQ'D							
BILL OF MATERIAL		CLAYTON INDUSTRIES		EL MONTE CA., 91734									
DRAWING TITLE		INSTALL - BAR 97, 108 DYNO,		VENTILATION									
MATERIAL		CLAYTON INDUSTRIES		EL MONTE CA., 91734									

PART NUMBER **R-16168**

ISSUED

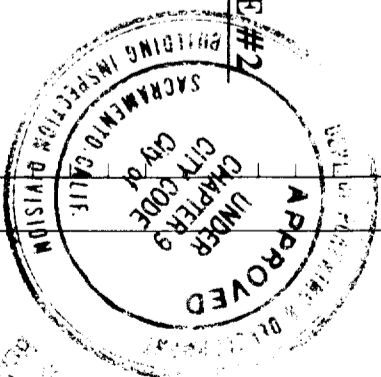
MAR 25 1998

CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIV

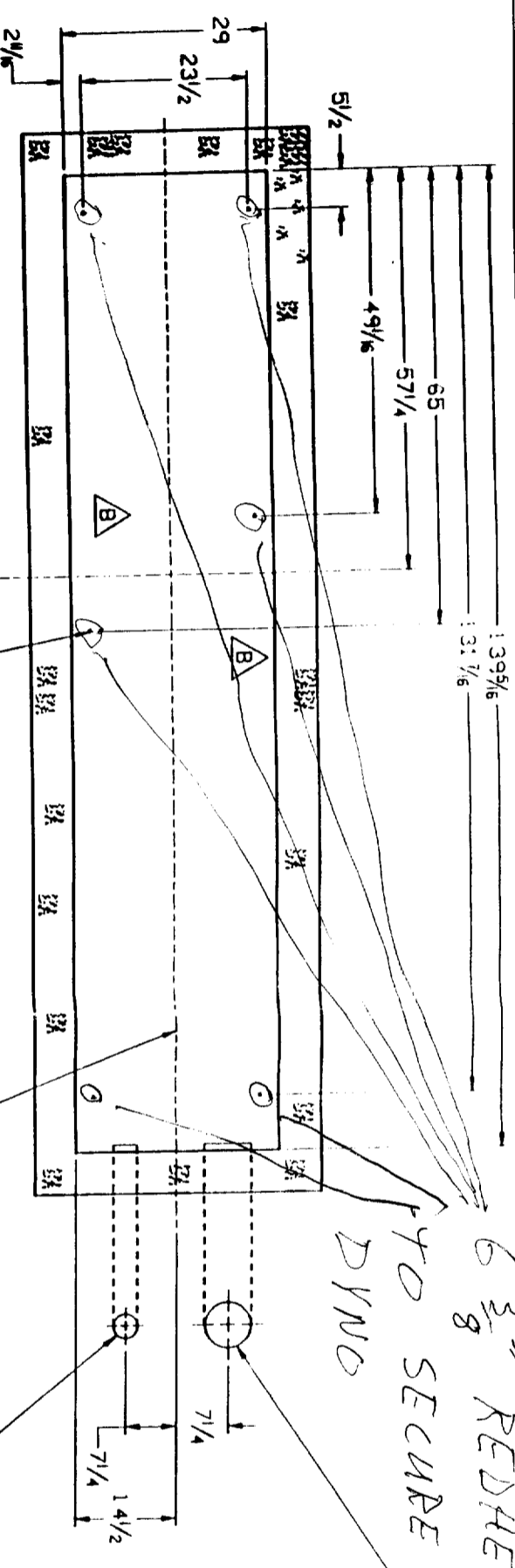
RECEIVED

MAR 17 1998

Building Inspection Division



State of California Department of Industrial Relations
Division of Occupational Safety and Health
This drawing was reviewed and approved on 10/16/97 in accordance with the specifications and specifications from the State Law.



PIT VENT
within 12" of bottom
of pit.

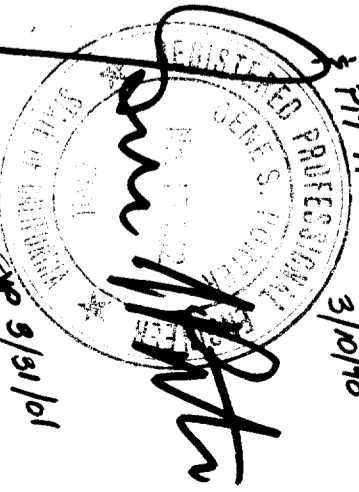
ISSUED

MAR 25 1998

CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIV

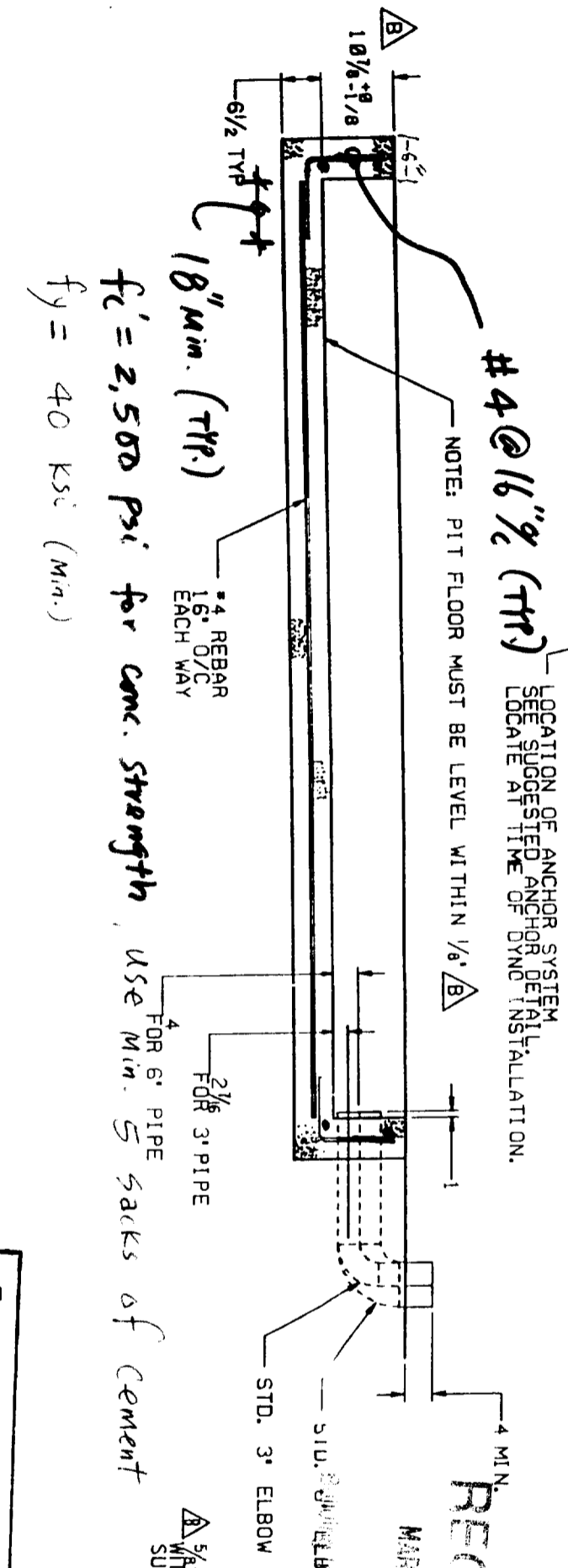
1"-2" rigid conduit
seal off if in class 1 area

RECEIVED
MAR 17 1998



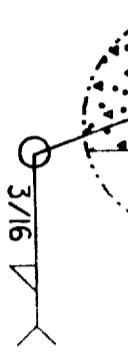
REVIEWED
PIT REBAR
3/10/98

9/31/01

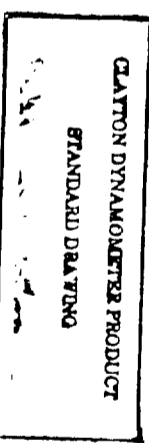


$f'_c = 2,500$ psi for conc. strength, use min. 5 sacks of cement
 $f_y = 40$ ksi (Min.)

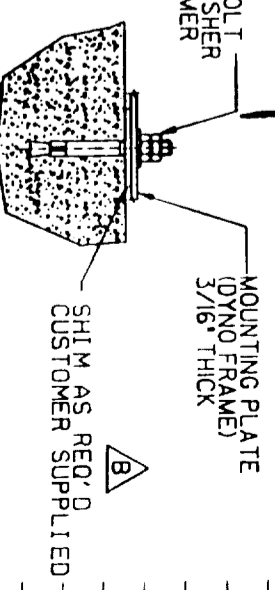
OPTIONAL:
2-1/2" X 2-1/2" X 3/8"
STEEL ANGLE WITH
ANCHOR BOLTS @ 18" O.C.
SUPPLIED BY CUSTOMER



OPTIONAL CURB
EDGE



SUGGESTED ANCHOR
INSTALLATION



REV	DATE	BY	CHK	DESCRIPTION	SCALE	MODEL/TITLE
B	10/8/97	EA	JC	WAS SHIT 3 OF 3, REVISED PIT DEPTH, ADDED SHIM & PIT FLOOR NOTES, DELETED 121 ANCHORS-REFER TO ECD ORIGINAL DRAWING	1/16	CLAYTON INDUSTRIES EL MONTRE CA, 91734
A	10/8/97	EA	JC	ORIGINAL DRAWING	1/16	CLAYTON INDUSTRIES EL MONTRE CA, 91734
1				DO NOT SCALE PRINT		

ITEM	QUANTITY	DESCRIPTION	UNIT
20-1302		CLAYTON INDUSTRIES	